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A MULTI-PROXY PROVENANCE APPROACH AND DEPOSITIONAL AGE
CONSTRAINTS FOR THE UPPER CRETACEOUS BEAVERHEAD GROUP, SOUTHWEST
MONTANA

by

Kacey Lynn Garber

A thesis submitted in partial fulfillment
of the requirements for the Master of Science
degree in Geoscience in the
Graduate College of
The University of Iowa

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Thesis Supervisor: Associate Professor Emily S. Finzel

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ABSTRACT

The Beaverhead Group records coarse-grained, conglomeratic deposition in the northwestern foredeep of the Cordilleran foreland basin. In the northeastern portion of the study area, it unconformably overlies and is deformed by the Laramide-style Blacktail-Snowcrest uplift. To the west, it is deformed by and structurally juxtaposed against Paleozoic and Mesozoic passive margin strata in the Sevier-style fold-thrust belt. Previous work on limited palynomorph samples suggests Coniacian-Campanian (~89-72 Ma) depositional ages while structural and stratigraphic relationships additionally suggest Maastrichtian-Lower Cenozoic depositional ages. Previous work based on clast compositions implies that units involved in deformation related to both the Sevier thrust belt and Laramide-style Blacktail-Snowcrest uplift were the primary sediment sources to the Beaverhead Group.

This study aims to better define the depositional age and provenance of the Beaverhead Group by utilizing U-Pb dating of detrital zircons in combination with conglomerate clast compositions and sandstone petrography. Maximum depositional ages based on the ages of youngest single grains range from ~83-66 Ma (Campanian-Maastrichtian). Provenance analysis for various units of the Beaverhead Group suggest local and/or distal sediment sources, with the former encompassing the Blacktail-Snowcrest uplift and local portions of the Sevier thrust belt and the latter including distal portions of the Sevier thrust belt. Maximum depositional ages in conjunction with provenance interpretations require that the Blacktail-Snowcrest uplift was actively exhuming at ~81 Ma and that the Sevier thrust belt was locally active from ~83-66 Ma. Distally sourced sediments from the Belt Supergroup of Idaho suggest that a paleoriver system connected regional sources to Beaverhead Group depocenters from at least ~83-66 Ma.

PUBLIC ABSTRACT

The Beaverhead Group of Southwest Montana records coarse-grained sedimentation within a tectonically active region. There were two fundamentally different structural styles (Laramide uplifts vs. Sevier fold-thrust belt) deforming older rocks and supplying sediment to the basin and forming the Beaverhead Group. Previous but limited work on rocks of the Beaverhead Group suggests they were deposited potentially from ~89 to <66 million years ago (Ma). Additionally, previous work based on gravel clast compositions in the Beaverhead Group implies that older rocks involved with both deformational styles were the primary sediment sources for the Beaverhead. Understanding the relationship between deposition of the Beaverhead Group and the timing of deformation plus resulting sediment sources is key for reconstructing the tectonic history of Southwest Montana.

This study aims to better define the depositional ages and sediment sources of units within the Beaverhead Group by utilizing U-Pb radiometric dating of zircon minerals in combination with gravel clast compositions and examination of sandstones under microscope. U-Pb zircon ages suggest that the Beaverhead Group was largely deposited ~83-66 Ma. Sediment source analyses for various parts of the Beaverhead Group suggest local and/or distal sediment sources, with the former encompassing the Laramide-style Blacktail-Snowcrest uplift and local portions of the Sevier fold-thrust belt and the latter including distal portions of the Sevier fold-thrust belt. Depositional ages in conjunction with sediment source interpretations require that the Laramide Blacktail-Snowcrest uplift was active at and before ~81 Ma and that the Sevier fold-thrust belt was locally active from at least ~83-66 Ma. Distally sourced sediments from Idaho suggest that a paleoriver system connected regional sources to Beaverhead Group depocenters from at least ~83-66 Ma.

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1: INTRODUCTION

Southwestern Montana displays an overlap between structural styles: a Sevier-style fold-thrust belt consisting largely of Paleozoic passive margin units and the Laramide-style, Archean and Proterozoic basement-cored Blacktail-Snowcrest uplift. The Upper Cretaceous Beaverhead Group overlies rocks deformed by the Blacktail-Snowcrest uplift and the thrust belt, and is also deformed by these structures, which demonstrates that these rocks are synorogenic (Haley, 1985). Based primarily on conglomerate clast compositions and paleocurrent data, the Beaverhead is thought to have been sourced in part from both the Blacktail-Snowcrest uplift and the Sevier-style fold-thrust belt. The depositional age of the Beaverhead, which is mostly constrained by the previous work of Nichols et al. (1985), based on sparse palynological data, broadly implies deposition during Coniacian-Campanian (~89-72 Ma) time. Structural and stratigraphic relationships, however, suggest that part of the Beaverhead is Maastrichtian and may span into the Lower Cenozoic as well (Haley and Perry, 1991).

Despite its great stratigraphic thickness (>3000 m), which encompasses nearly all of the Upper Cretaceous stratigraphy in Southwest Montana, the Beaverhead Group remains poorly constrained in terms of its depositional age and provenance. Given that the Beaverhead is synorogenic, it records deformation in the basement uplift and thrust belt as well as the resulting sedimentation in the foreland basin. Understanding the spatiotemporal relationship between the Beaverhead Group the Sevier and Laramide structures is crucial for resolving the tectonic history of Southwest Montana through the upper Mesozoic and possibly Lower Cenozoic (Schmitt et al., 1995).

We aim specifically to better constrain the depositional timing and provenance for the Beaverhead Group through a multi-proxy approach. A major contribution of this study is to employ the use of U-Pb dating of detrital zircons from several units within the Beaverhead Group that are then integrated with new and existing conglomerate clast and sandstone compositional data. In the past, sediment source areas and depositional ages have been speculated for the Beaverhead Group based on clast lithologies, paleocurrents, structural relationships, and palynology. Detrital zircon geochronology has not yet been employed in detail to investigate sediment sources or better constrain depositional ages. Laskowski et al. (2013) used U-Pb detrital zircon geochronology to constrain the provenance from various intervals within the Beaverhead Group, and suggested that the Beaverhead broadly has a complex mixed passive margin and Archean basement (Wyoming) provenance and that, due to the overall lack of arc-derived grains, a local drainage divide existed during deposition. However, depositional ages were not interpreted, and the samples were not placed into a stratigraphic context. Our approach, which utilizes detrital zircon U-Pb geochronology combined with sandstone petrography and conglomerate clast compositions, will allow us to clarify potential sediment sources to the foreland basin and depositional ages for the Beaverhead throughout Late Cretaceous time.

2: BACKGROUND

2.1: Regional Tectonics

A system of thrust belts and retroarc foreland basins with along-strike continuity delineate the North American Cordillera, which extends from the Arctic region of North America southward to central Mexico. This orogenic system commenced during Late Jurassic time as oceanic crust subducted beneath western Laurentia during the Sevier orogeny (DeCelles, 2004).

A retroarc foreland basin developed adjacent to the Sevier fold-thrust belt as a result of flexural subsidence. This system propagated farther to the east as subduction continued throughout Cretaceous time. During Late Cretaceous through mid-Cenozoic time, the foreland basins were partitioned by basement-cored uplifts during the Laramide orogeny (DeCelles, 2004). In general, Laramide-style uplifts occurred eastward from the Sevier front. In contrast, in southwestern Montana and northwestern Wyoming, there was local interaction between the Sevier belt and Laramide-style uplifts (Schmidt and Garihan, 1983; Craddock et al., 1988; DeCelles, 2004).

The presence of differing structural styles in orogenic systems has been attributed to both changes in the subducting slab angle due to flat-slab subduction (e.g. Dickinson and Snyder, 1978) or the pre-existing crustal architecture of the overriding plate (e.g. Allmendinger et al., 1983). Currently, the prevailing model for the North American Cordillera is that the Laramide orogeny is mainly a result of flat-slab subduction of the Farallon plate beneath western Laurentia, with timing well-constrained to generally <70 Ma (Peyton and Carrapa, 2013). The spatial extent of Farallon flat-slab subduction has also been well defined (Saleeby, 2003; Liu et al., 2010) using the sedimentology, structure, and thermochronology of key Laramide intraforeland uplifts and basins (e.g. DeCelles, 2004; Fan and Carrapa, 2014; Stevens et al., 2016). The mechanism behind flat-slab subduction is still heavily debated, but it is most typically attributed either to the subduction of an oceanic plateau or aseismic ridge (e.g. Livacari et al., 1981; Henderson et al., 1984; Saleeby, 2003; Liu et al., 2010), or varying interactions between the upper and lower plates based on local plate geometries and changes in plate kinematics (Bird, 1998; Engebretson et al., 1985; Jones et al., 2011), with the former providing the best and most widely supported models (Carrapa et al., 2019). A record of flat-slab subduction during the Laramide orogeny is absent within the study area in southwest Montana because it is outside of

the predicted flat-slab trajectory, albeit adjacent to the well-studied “classic” Laramide region that falls within the trajectory. DeCelles (1986) argued that the Laramide-style uplifts were exhuming early (~100 Ma) due to sedimentological observations made within the Kootenai Formation. Furthermore, recent but limited thermochronological data from various Laramide-style uplifts in southwest Montana suggests that exhumation began as early as ~100 Ma, which would predate exhumation of uplifts within the well-defined flat-slab corridor (Carrapa et al., 2019).

2.2: Local Structure

The main Laramide-style, basement-cored foreland uplift directly to the east in the study area is the Blacktail-Snowcrest uplift, which partitioned the foreland basin during Late Cretaceous time (Figure 1; Dyman et al., 1994). NE-SW striking steep reverse faults bound Archean and Proterozoic basement rocks related to the Blacktail-Snowcrest uplift (Haley, 1985). This uplift involves both Archean basement rocks and highly deformed Paleozoic and Mesozoic strata (Schmitt et al., 1995). Previous work by Nichols et al. (1985) suggested that palynomorphs from the Lima Conglomerate of the Beaverhead Group, which has been interpreted to record the exhumation of the Blacktail-Snowcrest uplift, restrict this exhumation to 81-78 Ma, which would make it significantly older than well-defined Laramide uplifts in Wyoming within the flat-slab corridor. Others have asserted that the Blacktail-Snowcrest uplift was in its earliest stages of exhumation while the Kootenai Formation was deposited (~100 Ma) (Perry et al., 1983; DeCelles, 1986).

To the west of our study area, there are four major thrusts that constitute the NW-SE trending Sevier-style FTB (Fold-Thrust Belt; from east to west): Tendoy, Four Eyes Canyon, Medicine Lodge, and Cabin thrusts (Figure 1; Perry and Sando, 1982), which were the sources of foreland

basin sediment from mostly Paleozoic passive margin units and Mesozoic continental units. Activity along these thrusts is generally assumed to young from southwest to northeast, with the exception of some out-of-sequence thrusting. Activity on the frontal Tendoy thrust is loosely constrained to <78 Ma (mid-Campanian or younger) due to its interaction with the Blacktail-Snowcrest uplift (e.g. Perry et al., 1988; Perry et al., 1989). The uplift modified the structural position of stratigraphic detachment horizons utilized within the Sevier thrust belt as it was propagating to the east, creating a complicated, westward-younging thrust imbrication in the Tendoy thrust sheet (Perry et al., 1989; McDowell, 1997). Other major Cordilleran thrust sheets farther to the southwest in Idaho that may have contributed to the foreland basin include the Fritz Creek, Hawley Creek, Copper Basin, and Pioneer sheets (Skipp, 1988).

In terms of provenance, the Tendoy sheet has been long considered the most significant contributor of sediment to the Beaverhead from the FTB. The Snowcrest Range Group and the Quadrant, Phosphoria, Park City, Dinwoody, and Woodside formations (Triassic-Mississippian) constitute the majority of the Tendoy plate today (Skipp, 1988). The Four Eyes Canyon sheet dominantly consists of Mississippian strata with some Pennsylvanian-Permian strata still preserved to the south (Perry and Sando, 1982). The Medicine Lodge sheet consists mainly of Mississippian to Devonian strata, whereas the Cabin plate contains a wide range of rocks from Pennsylvanian to Archean gneiss, including Mesoproterozoic Belt Supergroup rocks. The Hawley Creek and Fritz Creek thrusts farther to the west exhumed Belt Supergroup rocks of the Lemhi Group and Ordovician-Mississippian strata. Additionally, the Hawley Creek thrust sheet contains the Beaverhead plutons (~500 Ma) and Lower Pennsylvanian strata are exposed within the Fritz Creek sheet (Skipp, 1988). This study focuses on the thick western foredeep of a

Cordilleran foreland basin that received sediment from both the Blacktail-Snowcrest uplift as well as the Sevier FTB as it continued propagating east during Late Cretaceous time.

2.3: Stratigraphy

Cretaceous rocks in the study area were deposited in the western foredeep of the Cordilleran foreland basin and are mostly non-marine (e.g. Dyman et al., 1994). These strata can locally exceed 6000 m in total thickness in the western part of the study area. Sedimentary rocks interpreted to have been deposited in the foredeep thin eastward toward the interior of the North American craton. Considerable exposure of the Cretaceous rocks is present in the Lima Peaks area, Snowcrest Range, and Tendoy and Pioneer Mountains (Dyman et al., 1994). The Cretaceous strata unconformably overlie the widespread Morrison Formation of Late Jurassic age and, in some areas, older Paleozoic units (Figure 2). Cretaceous strata are overlain unconformably by lower Cenozoic strata. The Cretaceous strata in the study area are composed of (from older to younger) the Kootenai Formation (Aptian to Albian), Blackleaf Formation (Albian to Cenomanian), Frontier Formation (Cenomanian to Turonian), and Beaverhead Group (Coniacian to Maastrichtian or Lower Cenozoic). The latter is the focus of this study because it is the synorogenic portion deposited within the foredeep and consequently provides a foreland sedimentary record during uplift and deformation.

The Beaverhead Group unconformably overlies the Frontier Formation in the Lima Peaks area but the contact appears to become conformable toward the east. The sub-Beaverhead contact is not always easily discernable due to limited exposures and lateral facies changes from west to east (Dyman et al., 1991). The Beaverhead Group was first described and named by Lowell and Klepper (1953) as the Beaverhead Formation, but later raised to group level due to its heterogeneity (Nichols et al., 1985). The group broadly consists of over 3000 m of interbedded

conglomerates and sandstones with very minor limestone, siltstone, and shale that have been interpreted as alluvial fan and braided stream deposits (Haley, 1985; Dyman et al., 1994).

The stratigraphic divisions for the Beaverhead Group have been heavily debated and inconsistent since its discovery. Divisions are debatable because many parts of the Beaverhead Group are laterally discontinuous and variable, so they are based loosely on lithologic characteristics and inferred sediment source areas. Divisions used in this study follow nomenclature used in past stratigraphic descriptions for the Beaverhead (e.g. Haley, 1985; Schmitt et al., 1995), while some researchers (e.g. Nichols et al., 1985) consider these divisions informal (Figure 2).

The Knob Mountain Formation consists of pebble to boulder conglomerate, sandstone, and pebbly sandstone (Figure 1; Figure 3a). It is located near the Red Conglomerate Peaks south of Lima, MT and has conglomerate clasts that are interpreted to have been derived from Pennsylvanian-Jurassic limestones, with minor lower Cretaceous sandstone clasts. This assemblage is unique to the Beaverhead as it supposedly contains no Mississippian clasts. Sediment sources are debatable, with the Medicine Lodge or Tendoy thrust sheets cited as possibilities (Haley, 1985; Schmitt et al., 1995). The assemblage was likely deposited by braided-stream-dominated alluvial fans (Haley, 1985). Previous palynological work estimates the depositional age to be Coniacian-Maastrichtian (Haley, 1985), making this unit the oldest part of the Beaverhead Group. The Knob Mountain Formation interfingers with the informal Divide quartzite conglomerate (Ryder, 1968; Schmitt et al., 1995), indicating that these units are correlative; however, they clearly have different source areas.

The Antone Peak Formation is present near the Snowcrest Range and southwest towards Lima Peaks (Figure 1; Figure 3b-c). It contains two members: the Clover Creek Member (lower)

and the Lima Conglomerate (upper). The Clover Creek Member is dominantly pebbly sandstone and sandstone with some pebbly conglomerate. The Lima Conglomerate is pebble to boulder conglomerate with sandstone interbeds. There are also undifferentiated and informal sandstone units, including the quartz-rich Monida sandstone and the salt-and-pepper Snowline sandstone, that are considered to be distal correlatives. These sandstones (as well as the Clover Creek Member) were removed from the Beaverhead Group by Nichols et al. (1985). However, Perry et al. (1988) restored these units into the Beaverhead, as they are thought to be laterally and temporally equivalent with the Lima Conglomerate and part of the same depositional system. Conglomerate clasts in the Lima Conglomerate are interpreted to have been derived from Triassic-Mississippian limestones with minor sources in the Cambrian Flathead sandstone and Precambrian granite-gneiss near the top of the section (Schmitt et al., 1995). Previous work strongly suggests that the Antone Peak Formation was sourced entirely from the Blacktail-Snowcrest uplift through a flanking system of braided-stream-dominated alluvial fans, and its depositional age is Santonian-Campanian based on palynomorphs (Wilson, 1970; Ryder and Scholten, 1973; Haley, 1985).

The Red Butte Conglomerate crops out near Dell, MT and stretches southward from Ashbough Canyon to Red Butte (Figure 1; Figure 3g). There are also fault-bounded and highly deformed exposures at Chute Canyon near the Tendoy thrust. This formation contains pebble to boulder conglomerate with sandstone interbeds and incised channels. The Red Butte Conglomerate is considered distinct because it is interpreted to contain both Triassic-Mississippian limestones and Precambrian (Belt Supergroup) quartzite clasts (Schmitt et al., 1995). The Red Butte has historically been considered the youngest part of the Beaverhead and

was deposited through ephemeral flood and debris-flow-dominated alluvial fans flanking the eastward-advancing thrust sheets in the Sevier FTB (Haley and Perry, 1991).

The Beaverhead also contains undifferentiated units, such as the limestone conglomerate units in McKnight Canyon and Ashbough Canyon (Figures 1B, 2). The section at McKnight Canyon includes three lithologically distinct units. The lower limestone unit consists of tuffaceous oncoidal limestone and quartz sandstone interbeds. The sandstone-rich middle unit contains quartz sandstone, siltstone, and sandy limestone (caliche) interbeds. The upper sequence is dominated by conglomerates with inferred Triassic-Mississippian limestone clasts and some sandstone interbeds (Figure 1; Figure 3f). At Ashbough Canyon, two lithologically distinct units are present (Figure 1B, 2). A limestone conglomerate is interpreted to contain deformed Mississippian clasts (Figure 3d) and the (Kidd) quartzite conglomerate (Figure 3e) is interpreted to have a preponderance of Belt Supergroup quartzite clasts (Schmitt et al., 1995). Other undifferentiated quartzite conglomerates (e.g. Divide, Little Sheep Creek) interbedded with lithic-rich sandstones that contain quartzite clasts inferred to be from the Precambrian Belt Supergroup and Ordovician Kinnikinic Formation are also thought to have been shed from the Tendoy thrust sheet (Schmitt et al., 1995).

Historically, the age of the Beaverhead has not been well constrained due to many of the exposures being isolated throughout southwest Montana, making it problematic to infer stratigraphic and age relationships among them. Additionally, Beaverhead strata are considered entirely terrigenous and lack fossils that aid in biostratigraphic studies (Dyman et al., 1994). The only relative age constraints determined for the Beaverhead were obtained from limited samples of palynomorphs, which suggest Coniacian-Campanian (~89-72 Ma) depositional ages for the Beaverhead, not including the Red Butte Conglomerate (Nichols et al., 1985). Structural and

stratigraphic relationships have suggested that the Red Butte Conglomerate is no older than Maastrichtian and may span into the Lower Cenozoic (Haley and Perry, 1991).

3: METHODS

3.1: Field

Our study area is situated in southwest Montana near Lima within the North American Cordillera (Figure 1). Key field localities from a wide geographic and stratigraphic range were chosen in southwest Montana based on previous work and mapped outcrops of Beaverhead on detailed geologic maps (Figure 1; Table 1). For sampling context, where possible, stratigraphic section was measured and described in terms of lithofacies (Appendix A and B). Unfortunately, the Beaverhead is often present as smaller, isolated exposures throughout the study area. However, there are a few key continuous sections that allowed more stratigraphically-constrained sampling and detailed sedimentological analysis. See Table 1 for details about all sampling localities.

Detrital zircon samples were collected both within measured sections and from isolated outcrops (Figure 1). Within measured sections, a detrital sample was collected in the sandstone unit closest to the base of the section, with the aim of inferring the onset of deposition. One to two additional detrital samples were also collected farther up section. In isolated outcrops, detrital samples were collected when possible from sandstone units with reasonable grain sizes. Clast counts were conducted at all sampling localities within conglomerates, where 100 clasts were selected every 10 cm and identified by their basic lithology. The resulting distribution of clast lithologies at each locality helps us identify how clast composition changes both geographically and stratigraphically, which in turn helps us uncover potential source areas. The

largest axis of the 10 largest clasts visible were measured at each locality to obtain maximum clast size distributions.

3.2: Petrography

Standard petrographic thin sections were made from sandstone samples collected in the field. Each section was stained for K-feldspar. Each thin section was point counted using the Gazzi-Dickinson method with PetrogLite x64 software and an automated counting stage on a petrographic microscope. 400 counts were made per sample on only framework grains randomly assigned by the stepping stage. This allows us to examine the detrital framework and understand the composition of sandstones within the Beaverhead Group, which ultimately provides additional information on the source and composition of the rocks from which the sediment was eroded (e.g. Dickinson and Suczek, 1979; Dickinson et al., 1983; Ingersoll et al., 1984).

3.3: Detrital zircon separation

Detrital zircons were separated from sandstones at the University of Iowa. Detrital samples were crushed using a jaw crusher and disc mill. A Gemini table that uses water and shaking action separates the minerals by density such that heavy minerals flow down the rills and are concentrated into buckets and light minerals are flushed off the table. This step effectively removes most of the original sample. The heaviest fraction from the table is sieved down to <350 μm and cycled through free fall and barrier Frantz magnetic separators at various currents to eliminate grains with high magnetic susceptibilities. The final nonmagnetic fraction is separated by density using methylene iodide ($\rho=3.32 \text{ g/cm}^3$), where lighter minerals float and heavier minerals (including zircon) sink. Both the sinks and floats were filtered separately and cleaned using acetone. 500 zircons were randomly hand-picked from the sinks, mounted with standards

in a 1” puck with epoxy, and polished down to a depth of ~20 um to expose grain interiors prior to analysis.

3.4: Detrital zircon dating by LA-ICPMS

Detrital zircons were analyzed by laser ablation inductively coupled plasma mass spectrometry (LA-ICPMS) at the University of Arizona’s LaserChron Center using a Thermo Element2 single-collector ICPMS (Gehrels et al., 2008). LA-ICPMS allows quick, accurate, and precise quantitative analysis of zircon for U-Pb ages (Gehrels, 2011). For each zircon sample, a total 315 unknown grains were analyzed. Standards used include Duluth Gabbro (FC) zircon (~1099 Ma), Sri Lanka (SL) zircon (~563.5 Ma), and R33 (~420 Ma). Fractionation corrections were made using $^{207}\text{Pb}/^{206}\text{Pb}$ ratios and a correction for ^{204}Pb (Stacey and Kramers, 1975) with the E2AgeCalc program at the Arizona LaserChron Center. We present $^{206}\text{Pb}/^{238}\text{U}$ ages for grains younger than 900 Ma and $^{206}\text{Pb}/^{207}\text{Pb}$ ages for grains older than 900 Ma. Analyses with uncertainty greater than 10% are not reported. Raw data are reported in Appendix C. Age peaks for each detrital zircon sample were calculated using the AgePick program.

4: RESULTS

Summarized below are the provenance results for each stratigraphic unit. Representative field photos are shown in Figure 3. Conglomerate clast counts are reported in Figure 4 and maximum clast sizes are reported in Figure 5. Sandstone petrography micrographs are shown in Figure 6 and the results are reported in Table 2 and Figure 7. Probability density plots were generated for each detrital zircon sample and were stacked in approximate stratigraphic order based on our interpreted maximum depositional ages and previous work (e.g. Haley and Perry, 1991) (Figure 8a). Detrital zircon age populations will be discussed in terms of specific age groups based on major intervals of North American basement province ages, specifically the

Cordilleran Arc (0-250 Ma), Appalachian (330-500 Ma), Grenville (900-1300 Ma), and Yavapai-Mazatzal (1600-1800 Ma) intervals (e.g. Whitmeyer and Karlstrom, 2007). These age ranges are used simply to identify clusters of zircon ages and do not imply immediate sourcing from these terranes. Most of the large age-peaks for the Beaverhead samples fall within these age ranges (Figure 8b). Other age-peaks that fall outside of these ranges with unique provenance implications will also be mentioned and later discussed.

4.1: Knob Mountain Formation

Clast counts of the Knob Mountain Formation (Figure 2) were conducted in the Red Conglomerate peaks near the Continental Divide trail off Sawmill Creek road (18MT-45 on Figure 1; Figure 3a). This locality is dominated by limestone clasts (75%) with minor quartzite (13%) and sandstone (10%) clasts and few chert (2%) grains (Figure 4). All clasts that were measured for maximum clast size are boulders (Figure 5). In contrast, clast descriptions at 18MT-22 were collected in an interfingering cobble-rich quartzite conglomerate (informal Divide quartzite conglomerate of Ryder and Scholten (1973) on Figure 2) near the Frontier-Beaverhead contact. This sample is over 90% quartzite clasts with small (<5%) percentages of chert, limestone, and sandstone, and all measured clasts are cobbles. Samples for sandstone petrography were not collected at either locality due to limited outcrop and a lack of sandstone. A nearby detrital zircon sample 18MT-17 (n=287) has a large (n=47) detrital zircon age peak at 1379 Ma and two grains with a distinct age of ~650 Ma (Figure 8a). The sample is comprised of 19% Cordilleran Arc (0-250 Ma) grains, 2% 330-500 Ma grains, 11% 900-1300 Ma grains, and 16% 1600-1800 Ma grains (Figure 8b).

4.2: Antone Peak Formation

In the lower part of the Lima Conglomerate near Lima, MT (18MT-44 on Figure 1) conglomerate clasts are mostly limestone (88%) with small percentages of sandstone (5%), quartzite (4%), and chert (4%) (Figure 4). Both boulder and cobble-sized clasts are present (Figure 5). Farther up-section in the Snowcrest Range near Antone Peak (18MT-36, 18MT-37), clast lithologies are more mixed, consisting of about half limestone and larger percentages of chert (<40%), sandstone (<~20%), and very minor mudstone (3%) and quartzite (6-12%) (Figure 3c; Figure 4). Clasts are dominantly cobble-sized and generally smaller.

Sandstone compositions from the Lima Conglomerate on the southeastern flank of the Snowcrest Range are variable in composition. Low in the section, sample 18MT-38 is >90% quartz grains (Table 2; Figure 7a). The few lithic grains present are mostly limestone with very minor volcanic lithic fragments (Figure 7b). Higher in the section, sample 18MT-36 is more lithic-dominated, and nearly all the lithics are limestone (Table 2; Figure 3c; Figure 7). The nearby Clover Creek member (18MT-28; Figure 6b) and the Lima Conglomerate near Lima (18MT-44) are also lithic-rich (>50%), dominated by limestone lithics with few mudstone and siltstone lithics (Table 2; Figure 7). The Monida Sandstone unit near Monida (18MT-26) is quartz-dominated (87%) with some limestone and very few volcanic lithic fragments (Table 2; Figure 6a; Figure 7).

Detrital zircon sample 18MT-26 (n=307) was collected from the Monida Sandstone unit just north of Monida, MT (Figure 1; Figure 2; Figure 3b). This sample contains no Cordilleran Arc grains, 10% Appalachian grains, 34% Grenville grains, and 19% Yavapai-Mazatzal grains (Figure 8). Detrital zircon sample 18MT-36 (n=305) was collected from the Lima Conglomerate unit near the southeast flank of the Snowcrest Range (Figure 1; Figure 2; Figure 3c). The detrital

zircon signature is almost identical to 18MT-26 with zircon ages that are 1% Cordilleran Arc (0-250 Ma), 7% 330-500 Ma, 25% 900-1300 Ma, and 19% 1600-1800 Ma (Figure 8).

4.3: Ashbough Canyon

Clast counts from the limestone conglomerate (AC-1, AC-42.5; Figure 4) in Ashbough Canyon are dominated by limestone (>80%), with minor sandstone (only at AC-42.5; 13%), chert (<10%), and very little quartzite (1-2%). The Kidd quartzite conglomerate clasts, in contrast, are dominated by quartzite (78%) with considerable sandstone (14%) and minor limestone (8%) (18MT-19; Figure 4). Clasts in both units are mostly cobble-sized and smaller, with some boulders in the limestone conglomerate (Figure 5).

Sandstone compositions in the limestone conglomerate are >90% lithic grains, composed of 99% limestone grains and only 1% volcanic grains (Table 2; Figure 6d; Figure 7). Sandstone compositions in the Kidd quartzite conglomerate are lithic-rich (30-60%), containing >90% sedimentary lithics with few volcanic fragments. These sedimentary lithics are dominated by limestone, siltstone, and mudstone with rare sandstone grains (Table 2; Figure 6e; Figure 7).

Detrital zircon sample AC-10 (n=299) was collected from the limestone conglomerate unit (Figure 1; Figure 2; Figure 3d). There is a unique age peak at 498 Ma (n=16) and the overall ages are 5% Cordilleran Arc, 12% Appalachian, 19% Grenville, and 27% Yavapai-Mazatzal (Figure 8). Detrital zircon sample 18MT-20 (n=304) was collected from the Kidd quartzite conglomerate unit (Figure 1; Figure 2; Figure 3e). Contrary to the limestone conglomerate, this unit has zircon ages that are 1% Cordilleran Arc (0-250 Ma), 2% 330-500 Ma, 6% 900-1300 Ma, and 50% 1600-1800 Ma (Figure 8).

4.4: McKnight Canyon

Clast counts conducted in the upper limestone conglomerate of McKnight Canyon reveal nearly all limestone clasts with very minor sandstone (2%) near the bottom of the unit (MC-9; Figure 4). Lithologies become much more mixed up-section (MC-36; Figure 4), and still have dominantly limestone clasts (67%) but also include considerable sandstone (20%) and minor quartzite (6%) and chert (7%). Clasts are mostly cobble-sized and smaller, though there are some boulder-sized clasts present.

Sandstone composition was analyzed at several intervals in the upper limestone conglomerate succession (Table 2; Figure 7). Near the bottom of the exposure (MC-21; Figure 6f), the sandstone is more limestone lithic-rich but quartz-dominated overall (82.5%). All sandstones become more quartz-dominated up-section (>90%), with a minor mix of limestone, siltstone, and mudstone lithics (Figure 6g-h). Sandstone at the top of the section (MC-93.5; Figure 6h) is quartz-dominated (93%) but contains exclusively limestone lithics. Detrital zircon sample MC-21 (n=305) was collected from near the base of the upper limestone conglomerate (Figure 1; Figure 2; Figure 3f). Zircon ages are 1% Cordilleran Arc (0-250 Ma), 10% 330-500 Ma, 27% 900-1300 Ma, and 21% 1600-1800 Ma (Figure 8).

4.5: Red Butte Conglomerate

Clast counts from the Red Butte Conglomerate type section near Dell, MT demonstrate mixed lithologies (Figure 4). Low in the section (RB-0, RB-25.5), clasts are >50% limestone with some quartzite (32% and 22%) and sandstone (9% and 19%). Higher in the section (RB-54, RB-119), clasts are <50% limestone with much larger proportions of quartzite (54% and 35%) and sandstone (16% and 31%) and minor chert and mudstone input (1-2%). Near the base of the

section, clasts are mostly cobble-sized and smaller, but the top of the section becomes more boulder-rich (Figure 5).

Sandstone compositions at the Red Butte type section are lithic-rich (Table 2; Figure 7). At the bottom of the section (RB-1; Figure 6i), quartz is dominant (62%) but there is also a mix of limestone, siltstone, and mudstone lithics (38% total). RB-25.5 is higher in the section and is more quartz-rich (82%) but contains abundant limestone lithics with few mudrock lithic fragments. Further up-section, RB-67.6 is limestone lithic-dominated (55%) with significant (45%) quartz (Figure 6j). Detrital zircon sample RB-0.5 (n=310) was collected from the lower Red Butte Conglomerate section (Figure 1; Figure 2; Figure 3g). Zircon ages are 7% Cordilleran Arc (0-250 Ma), 8% 330-500 Ma, 29% 900-1300 Ma, and 21% 1600-1800 Ma (Figure 8).

4.6: Clark Canyon Reservoir

Clast counts were conducted in a section of the undivided Beaverhead conglomerate near Clark Canyon Reservoir (Figure 1; Figure 4). Clast lithologies are dominated by limestone (>50%) in addition to considerable proportions of quartzite (<40%) and sandstone (<20%). There is minor chert near the bottom of the section (2% at CCR-6; Figure 4). Clasts near the base and top of the section are cobble-sized and smaller, but the middle of the section has abundant boulder-sized clasts (Figure 5).

Sandstone compositions from this section are lithic-rich (>40%) and all lithics are limestone except for very little volcanic input at the top of the section (Table 2; Figure 6k-l; Figure 7). Detrital zircon sample CCR-8.2 (n=305) was collected near the bottom of the section (Figure 1; Figure 3h). Zircon ages are 4% Cordilleran Arc (0-250 Ma), 7% 330-500 Ma, 20% 900-1300 Ma, and 28% 1600-1800 Ma (Figure 8).

5: INTERPRETATIONS

Using a multi-proxy approach, we integrate several types of data in order to illuminate the depositional age and provenance of the Beaverhead Group. Our preferred maximum depositional ages for each detrital zircon sample are based on the youngest single grain (YSG) present. This method was used for consistency purposes, as many of the samples contained only a few young (Cordilleran arc) grains with non-overlapping ages. Using the YSG has been shown to be compatible with depositional ages in most cases, although Pb-loss and reproducibility are potential issues (Dickinson, 2009). Other techniques used to interpret MDA include the weighted mean age for the youngest two and three grains with overlapping ages, the youngest peak age (YPA), and Unmix age. The YPA is a weighted mean age calculated from a group of young ages that overlap with a target MSWD of 1. The Unmix age method is a modeling technique that creates Gaussian best-fit distributions for each age group and produces a peak age with uncertainty for each distribution (e.g. Dickinson, 2009; Ludwig, 2012; Coutts et al., 2019). Table 3 contains all the maximum depositional age interpretations obtained with these various methods. Note that not all methods were applicable to every sample due to the varying amounts of young grains present.

The determination of likely sediment sources based on detrital zircon spectra was based on visual inspection and further aided using the DZ Mix modeling software (Sundell and Saylor, 2017). This software allows quick and effective comparison between U-Pb ages of a mixed sample (Beaverhead samples) and potential sediment sources. The program runs a Monte Carlo model through 10,000 iterations of combining the potential sources in different relative proportions to find a best-match model of the mixed sample. We used the cross-correlation coefficient (R^2) value to determine the best model for each mixed sample. We consider R^2

$> \sim 0.70$ to be reasonably representative of potential sources, while $R^2 < \sim 0.70$ indicates that there are likely additional zircon sources that are not being represented by our source input data.

In general, detrital samples were compared with spectra of the Proterozoic Belt Supergroup (Prichard Formation/Priest River Complex, Lemhi Group, Missoula Group, Maurice Mtn. Formation (Grace Lake unit), and Black Lion Conglomerate), the Pennsylvanian Quadrant Formation, Paleozoic and Triassic passive margin units in southern British Columbia and Nevada-Utah, and older Mesozoic strata within the Cordilleran foreland (Morrison, Kootenai, Blackleaf, and Frontier formations). Sample 18MT-17 from the Knob Mountain Formation was additionally compared to portions of the Idaho Batholith due to the high percentage of arc-derived grains. Sample 18MT-20 from the Kidd quartzite conglomerate in Ashbough Canyon was compared only to the Pennsylvanian Quadrant Formation and the Belt Supergroup due to the high resulting R^2 value in that initial run. All source data was compiled from previous work except for the Quadrant Formation and some of the combined Kootenai, Blackleaf, and Frontier formations. We collected and analyzed two samples of Quadrant Formation from the Snowcrest Range and from the Sevier thrust belt region at Sandy Hollow for comparison purposes, as the Quadrant is thought to be a major clastic sediment contributor to the Beaverhead. See Figure 9 for a normalized probability plot of all potential sources and Figure 10 for plots of the relative source contributions to each Beaverhead sample generated using DZ Mix.

Both of our Quadrant Formation samples have zircon ages that are $>5\%$ 330-500 Ma ages, $>\sim 20\%$ 900-1300 Ma ages, and $\sim 20\%$ 1600-1800 Ma ages (Figure 9). While the Quadrant Formation and Belt Supergroup units both have 1600-1800 Ma zircon ages, they contain different proportions, with the Belt being dominated by that age group. Therefore, we infer that samples primarily sourced from the Belt Supergroup should have $\gg 20\%$ 1600-1800 Ma ages,

while those primarily sourced from the Quadrant Formation should have ~20% 1600-1800 Ma ages. The Belt lacks the 330-500 Ma and the 900-1300 Ma ages. If there are also 330-500 Ma and 900-1300 Ma populations in a sample that is sourced from the Belt Supergroup (>>20% 1600-1800 Ma), then we infer that the sample must additionally be sourced from the Quadrant Formation.

5.1: Knob Mountain Formation

The maximum depositional age based on the youngest single grain (YSG) from sample 18MT-17 is 83.1 ± 0.6 Ma (Campanian). This age is consistent with the weighted mean age of the youngest two and three grains with ages that overlap within their errors, the youngest peak from Unmix (Table 3), as well as the poorly constrained age range for the Knob Mountain Formation based on palynology (Coniacian-Maastrichtian; Haley, 1985). This is the oldest maximum depositional age from all our Beaverhead Group samples and is the only unit previously constrained as potentially older than Campanian, therefore we infer it to be the oldest unit in the group.

The best fit model for sample 18MT-17 using DZ Mix yielded $R^2=0.571$, indicating that not all potential sediment sources may be represented in our source data. The results suggest insignificant Belt Supergroup zircon contributions, though the Prichard/Priest River and Lemhi Group appear to make small contributions (~7% and 9%, respectively). The Quadrant Formation is inferred to contribute only ~10% of the zircons (Figure 10). The low percentages of 330-500 Ma, 900-1300 Ma, and 1600-1800 Ma zircon ages further imply that both the Belt and Quadrant were insignificant contributors. The Cordilleran Arc grains are most likely from the Early Metaluminous Suite of the Atlanta Lobe based on both DZ Mix results and a comparison with published ages (Gaschnig et al., 2010).

If this sample is additionally compared with the older Mesozoic units, the best fit model suggests that the Blackleaf Formation makes about a 23% contribution, which could imply that this unit is being recycled in part from the Blackleaf Formation. This sample also has a very large peak at ~1380 Ma (n=47), which is not represented by any of the source samples used in DZ Mix. Dumitru et al. (2016) introduced the idea of the “Lemhi doublet” zircon signature, which has two strong peaks from 1650-1800 Ma and 1380 Ma. This signature is inferred to result from rift-related bimodal plutons and sills that intrude the Lemhi sub-basin of the Belt Supergroup and have the distinctive ~1380 Ma age (e.g. Evans and Zartman, 1990; Doughty and Chamberlain, 1996). While 18MT-17 has a very strong 1380 Ma peak, peaks from 1650-1800 Ma are not similarly strong. It is possible that higher zircon fertility in these igneous intrusions (e.g. Dickinson, 2008) could allow a larger zircon contribution in comparison to Belt Supergroup units in the Lemhi sub-basin.

The presence of some sandstone and quartzite clasts at 18MT-17 supports the potential for Blackleaf Formation recycling and minimal Belt Supergroup contributions. Previous work interpreted clasts at this locality to have been derived from Jurassic-Pennsylvanian limestone and minor Lower Cretaceous sandstone (e.g. Schmitt et al., 1995). This further supports the potential for Blackleaf contributions, as well as other units including the Jurassic Ellis Group and Morrison and Twin Creek formations, the Triassic Thaynes, Woodside, and Dinwoody formations, and the Permian Phosphoria and Park City formations, which are present in the thrust sheets to the west of the sampling locality (e.g. Sadler, 1980; Lonn et al., 2000). The minor chert in the Knob Mountain Formation was likely recycled from the Phosphoria Formation or Mississippian limestone units (e.g. Cressman and Swanson, 1964).

In contrast, the clast count conducted within the interfingering quartzite conglomerate at the nearby 18MT-22 locality contains a large proportion of quartzite clasts and other minor lithologies that indicates the Belt Supergroup as a likely major contributor with minor late Paleozoic and Mesozoic contributions. This unit is not clearly described as being part of the Knob Mountain Formation by most workers (e.g. Ryder and Scholten, 1973; Schmitt et al., 1995) but considered a portion by others (e.g. Haley, 1985). The interfingering nature of these two units, however, suggests coeval mixing of separate depositional systems with distinct source areas.

5.2: Antone Peak Formation

We did not interpret a maximum depositional age for 18MT-26 (Monida Sandstone) because it lacked any Mesozoic grains (Figure 8). Nichols et al. (1985) interpreted the Monida Sandstone as Coniacian or younger (<89.8 Ma) based on palynology. The absence of Cordilleran arc grains in this unit suggests virtually no input from the Idaho Batholith to the west. The maximum depositional age based on the youngest single grain (YSG) from sample 18MT-36 (upper Lima Conglomerate) is 81.6 ± 0.9 Ma (Campanian). There are no other young grains in the sample but this age is consistent with palynomorphs that indicate a Santonian-Campanian depositional age (Ryder and Ames, 1970; Nichols et al., 1985). Furthermore, the upper portion of the Lima Conglomerate at Alder Creek near Lima Peaks was restricted to mid-Campanian by Nichols et al. (1985), which agrees well with our interpreted depositional age.

Detrital sample 18MT-26 (Monida Sandstone) resulted in $R^2=0.634$ when compared to potential sources using DZ Mix, indicating it likely that not all sources for this sample are represented in our source data. Peaks that do not match well with DZ Mix models are from ~900-950 Ma and 1100-1200 Ma. The results indicate a contribution of >70% Quadrant Formation

with no Belt Supergroup contributions (Figure 10). Sample 18MT-36, a sandstone from the Lima Conglomerate, had a better fit with $R^2=0.732$, indicating that sources are fairly well represented by the model. These results also suggest a contribution of >70% Quadrant Formation with no Belt Supergroup contributions (Figure 10). Furthermore, the percentages of 330-500 Ma, 900-1300 Ma, and 1600-1800 Ma populations for both samples correspond well with those for the Quadrant Formation, confirming the Quadrant as a highly significant source.

Reexamination of clasts collected at each clast count locality suggests that there are not significant amounts of quartzite clasts present; some well-cemented sandstone clasts were potentially misidentified as quartzite in the field. This is supported by the lack of Belt Supergroup contributions according to the DZ Mix models and the overall lack of significant quartzite exposures in the Snowcrest Range, the inferred sediment source area. These well-cemented sandstone clasts that appear quartzitic could be sourced from either the Quadrant Formation and/or the Phosphoria Formation (e.g. Cressman, 1955; Saperstone, 1986). The presence of distinctive pink to red sandstone clasts indicates some contributions from Cambrian sandstones. Limestone clasts in this unit have previously been interpreted to be derived from Triassic-Mississippian limestones exposed in the Snowcrest Range (Schmitt et al., 1995). If this is the case, limestone clasts are likely sourced from the Thaynes and Dinwoody formations, the Snowcrest Range Group, the Mission Canyon Formation, and possibly the Madison Group (e.g. Sadler, 1980; Wardlaw and Pecora, 1985). Given that there are a significant number of chert clasts, the Phosphoria Formation was probably also a major contributor (e.g. Cressman and Swanson, 1964; Ruppel, 2000). Mudrock clasts in conglomerate and mudrock lithics in sandstone further suggest input from Triassic units (Thaynes, Woodside, and Dinwoody formations), the Phosphoria Formation, and the Snowcrest Range Group. The sandstone

compositions support these interpretations; however, variable results throughout the section can presumably be attributed to variability in eroding exposures as the Antone Peak Formation was deposited. In general, the sandstone units that are lower in the section and/or more distal (18MT-38 and 18MT-26, respectively) to the Snowcrest Range are more quartz-rich.

Based on conglomerate clast lithologies, palynological data, and structural and stratigraphic relationships, previous researchers widely agreed that the Antone Peak Formation was derived from units exposed in the Blacktail-Snowcrest uplift (e.g. Nichols et al., 1985; Haley, 1985). In addition, paleocurrent data from Ryder and Scholten (1973) suggest that the Lima Conglomerate and associated sandstones were shed radially from the Blacktail-Snowcrest uplift as coalescing alluvial fans. The presence of distinctive Cambrian clasts, the lack of Belt Supergroup clasts and zircons, and the near-complete lack of arc grains (<250 Ma) in our data supports entirely local sourcing from the Blacktail-Snowcrest uplift (Figure 11).

5.3: Ashbough Canyon

The maximum depositional age based on the YSG for sample AC-10 (limestone conglomerate) in Ashbough Canyon is 67.1 ± 0.9 Ma (Maastrichtian), which is slightly younger than the weighted mean based on the youngest three overlapping ages, as well as the youngest peak age (Table 3). These ages are all younger than the previously inferred depositional age (Figure 2; Haley and Perry, 1991). The maximum depositional age based on the youngest single grain (YSG) from sample 18MT-20 (Kidd quartzite conglomerate) is 72.5 ± 1.0 Ma (latest Campanian), which is consistent with the weighted mean of the youngest two grains that form the youngest peak (Table 3) and the previously inferred depositional age (Figure 2; Haley and Perry, 1991). No palynology data exists for either of these Ashbough Canyon units; estimated

depositional ages are based solely on loosely inferred correlations to other dated sections of the Beaverhead (Figure 2).

Sample AC-10 (limestone conglomerate) yielded the lowest correlation coefficient of $R^2=0.499$ in DZ Mix, which again suggests that our model is not accounting for all potential sources. The results suggest contributions of nearly 50% Quadrant Formation and ~10% Morrison Formation with minimal contributions from the Belt Supergroup, specifically the Lemhi Group (Figure 10). There is a notable peak at 498 Ma (n=16) that is not well matched in the model results. Zircons of this age are unique in the region and were most likely sourced from the Beaverhead plutons that intruded Paleozoic strata just west of the Tendoy Mountains, which have an age of ~500 Ma (Lund et al., 2010). These plutons are present in the Hawley Creek thrust sheet, along with rocks of the Lemhi Group (Skipp, 1988). The high percentages of 330-500 Ma, 900-1300 Ma, and 1600-1800 Ma populations further indicate that both the Quadrant and Belt Supergroup are notable sources.

Our clast counts are dominated by gray limestone with minor sandstone and chert, and sandstone compositions from this locality are rich in limestone lithics. Past researchers have interpreted the limestone clasts in this unit as Mississippian (Schmitt et al., 1995). All of these observations imply various sources, including the Mississippian Madison and Tendoy groups, the Snowcrest Range Group, the Quadrant Formation, the Phosphoria and Park City formations, and the Beaverhead plutons (e.g. Cressman and Swanson, 1964; Wardlaw and Pecora, 1985; Saperstone, 1986). According to previous work, the presence of Mississippian limestone clasts implies that the Tendoy thrust immediately to the west is the most likely dominant source (e.g. Perry et al., 1988; Lonn et al., 2000). However, these strata and the Beaverhead Plutons are only present together on the Hawley Creek thrust plate in Idaho, suggesting the Hawley Creek thrust

plate as a more likely source than the Tendoy (Skipp, 1988). There were no more than a few quartzite clasts present, which supports minimal Belt Supergroup contributions that could be recycled from older quartzite conglomerates within the Beaverhead (e.g. Haley and Perry, 1991).

Interestingly, sample 18MT-20 (Kidd quartzite conglomerate) yielded the best model result of $R^2=0.922$ when compared only with the Belt Supergroup units and the Quadrant Formation. The model shows significant contributions (>50% total) specifically from these Belt Supergroup units: the Missoula and Lemhi groups and the Maurice Mtn. Formation (Grace Lake) (Figure 10). This implies that the Belt Supergroup and the Quadrant are the main sources contributing to the Kidd quartzite conglomerate. Clast counts (18MT-19) support this interpretation, as the clasts are almost all well-rounded quartzite. The Quadrant made about a 20% contribution according to the model, but the low percentages of 330-500 Ma (2%) and 900-1300 Ma (6%) ages coupled with the high percentage of 1600-1800 Ma ages (50%) suggests that the Belt Supergroup is the more dominant source. The sandstone compositions from this locality are expectedly quartz-rich, however, there are also many mudrock lithics present. This suggests some additional input from upper Paleozoic or lower Mesozoic units. The significant Belt Supergroup contributions imply that this unit was ultimately sourced from thrust sheets in the Sevier thrust belt farther to the west and/or northwest outside of the immediate study area (Lemhi and northern Beaverhead Ranges of east-central Idaho). Southeast-directed flow determined from paleocurrent data collected in the Kidd quartzite conglomerate by Ryder and Scholten (1973) supports this interpretation.

5.4: McKnight Canyon

The maximum depositional age based on the youngest single grain (YSG) from sample MC-21 (upper limestone conglomerate) is 70.1 ± 0.9 Ma (Maastrichtian). This age is slightly younger than the weighted mean based on the youngest two overlapping ages, though the latter has a high

error and MSWD (Table 3). This age is also consistent with palynological ages from Nichols et al. (1985) that suggest late Campanian to late Maastrichtian deposition.

Sample MC-21 produced an $R^2=0.657$ and only the Quadrant Formation appears to make a significant contribution (>70%) while the Belt Supergroup appears to make little to no contribution (Figure 10). Peaks that are not well represented by our source data include ~900-950 Ma, ~1200-1400 Ma, ~1500 Ma, and ~2400 Ma. The percentages of 330-500 Ma, 900-1300 Ma, and 1600-1800 Ma ages also support Quadrant contributions but no Belt contributions.

Previous researchers have interpreted conglomerate clasts in this unit as mostly Triassic-Mississippian limestone from the composite McKenzie Canyon-Four Eyes Canyon composite thrust (e.g. Williams and Bartley, 1988; Schmitt et al., 1995), which is interpreted to have been active by late Campanian to early Maastrichtian time (Perry et al., 1988). Our findings support this interpretation. Our clast counts are largely limestone and sandstone and compositions of sandstone interbeds are dominated by limestone lithics. A considerable amount of brown limestone clasts implies some contribution from the Triassic Dinwoody Formation. Most of the limestone clasts resemble limestone from the Snowcrest Range, Tendoy, and/or Madison Groups (e.g. Wardlaw and Pecora, 1985; Williams and Bartley, 1988). Given the DZ Mix results, most of the sandstone clasts are likely from the Quadrant Formation.

5.5: Red Butte Conglomerate

The maximum depositional age based on the youngest single grain (YSG) from sample RB-0.5 is 70.7 ± 1.1 Ma (Maastrichtian), which overlaps with the YSG age from the McKnight Canyon upper limestone conglomerate. The YSG also overlaps with the weighted mean based on the youngest two and youngest three overlapping ages (Table 3). The youngest peak age (YPA) and Unmix age are marginally older than the YSG. Despite being barren of dateable pollen

spores, the Red Butte Conglomerate has been long considered the youngest part of the Beaverhead based on the presence of recycled older Beaverhead, specifically the oncoidal limestone unit of McKnight Canyon and sheared quartzite clasts from the Little Sheep Creek conglomerate (Haley and Perry, 1991). The Red Butte Conglomerate was estimated to be Maastrichtian or younger based on palynology from McKnight Canyon, which agrees with our interpreted depositional age based on YSG (Nichols et al., 1985; Haley and Perry, 1991).

Sample RB-0.5 yielded $R^2=0.695$, which suggests that our model represents the contributing zircon sources fairly well. The Quadrant Formation is again making a >70% contribution and the Belt Supergroup makes little contribution (<10%) (Figure 10). The percentages of 330-500 Ma, 900-1300 Ma, and 1600-1800 Ma zircon ages also support the Quadrant rather than the Belt as a primary source. This sample contains a significant Cordilleran Arc peak (n=13) at 74 Ma that was not represented using DZ Mix. This age peak implies an Idaho Batholith source, specifically the Atlanta Peraluminous Suite of the Atlanta Lobe (Gaschnig et al., 2010).

Reexamination of collected clasts at Red Butte suggests that there are not as significant amounts of quartzite clasts present as originally thought in the field; some well-cemented sandstone clasts or highly crystalline limestone clasts were potentially misidentified as quartzite in the field. This is supported by the lack of significant Belt Supergroup contributions according to the detrital ages. Haley and Perry (1991) ascertain that the minor quartzite clasts present at Red Butte are likely recycled from older Beaverhead quartzite conglomerates rather than sourced directly from the Belt Supergroup, which may account for the lack of Belt Supergroup zircons. The older quartzite conglomerates are thought to be ultimately sourced from the southern Lemhi Group of the Belt Supergroup, but also extensively recycled as the thrust belt continued propagating east into southwest Montana (Perry et al., 1988). However, clasts at Red Butte are

dominantly limestone and resemble those from McKnight Canyon and Ashbough Canyon. Sandstone compositions are rich in mudrock lithics near the bottom and limestone lithics throughout the measured section. These observations imply Triassic-Mississippian units involved in the local thrust sheets to the west as sources, with the transition from mudrock and limestone lithics to mostly limestone lithics implying progressive unroofing of these units. The presence of sandstone clasts and a high percentage of quartz sand grains further supports the Quadrant Formation as a primary source for this unit. Haley and Perry (1991) observed that the Tendoy thrust overrides this unit. However, they also interpreted this unit as an alluvial fan sequence flanking the Tendoy thrust.

5.6: Clark Canyon Reservoir

The maximum depositional age based on the youngest single grain (YSG) from sample CCR-8.2 is 66.4 ± 0.9 Ma (Maastrichtian). The YSG age overlaps well with the weighted mean based on the youngest two and youngest three overlapping ages (Table 3). The YSG is slightly younger than the youngest peak age and unmix age. This age also overlaps with the YSG age from the limestone conglomerate in Ashbough Canyon. There is no previously estimated depositional age for this unit.

Sample CCR-8.2 yielded $R^2=0.780$, suggesting that the contributing sources are well characterized by our model. The results suggest significant contributions from the Quadrant Formation (~40%), the Morrison Formation (~15%) and from the Lemhi Group (~10%) of the Belt Supergroup, including minor contributions from the Maurice Mtn. Formation (Grace Lake unit) in the Pioneer Mountains (Figure 10). The high percentage of 1600-1800 Ma zircon ages (28%) coupled with the high percentage of 330-500 Ma (7%) and 900-1300 Ma (20%) zircon ages supports contributions from both the Quadrant and the Belt.

This unit is undivided and has not been formally defined in previous literature. Clasts observed in this section are an admixture of limestone, quartzite, sandstone, and minor chert. The sandstone compositions are rich in quartz and limestone lithics. Given our results, the quartzite and sandstone clasts are likely sourced from the Belt Supergroup and the Quadrant and Morrison formations. The limestone clasts are similar to those from McKnight Canyon, Ashbough Canyon, and Red Butte, so they are most likely sourced from Triassic-Mississippian units involved in the local thrust sheets to the west (e.g. Skipp, 1988).

6: DISCUSSION

6.1: Potential sediment pathways connecting regional sources to Beaverhead depocenters

Ryder and Scholten (1973) first introduced the idea that the Beaverhead Group was sourced in part by large-scale transport of gravel through river systems during Late Cretaceous time. Janecke et al. (2000) further suggested the idea that longitudinal transport of gravel via Cordilleran paleorivers connected sediment sources in east-central Idaho to more distal depocenters in southwestern Montana and northwestern Wyoming. Specifically, those authors suggested that the Lemhi Pass and Hawley Creek paleovalleys merged in the Tendoy Mountains just west of our study site and allowed quartzite clasts from the Lemhi Group of the Belt Supergroup to be transported east and southeast to the Divide Conglomerate. Structural culminations deformed Belt rocks in Idaho, supplying these paleorivers with detritus.

In a more recent compilation, Dumitru et al. (2016) augmented the work by Janecke et al. (2000) by noting that these paleorivers allowed sediments containing distinctive 1800-1650 Ma and 1380 Ma zircons (Lemhi Doublet) sourced from the Lemhi Group and its intrusions to be transported eastward. These interpretations may explain why there are Belt quartzite clasts in the Divide Conglomerate (18MT-22) and Kidd quartzite conglomerate (e.g. 18MT-20) since the

Sevier thrust belt does not locally involve Belt Supergroup rocks in the Tendoy Mountains. The observation that the quartzite clasts are very well-rounded (e.g. Figure 3e) also supports long distance fluvial transport of sediments from the Belt Supergroup or multiple recycling events.

Contrary to previous interpretations that the Knob Mountain Formation was derived entirely from the Medicine Lodge or Tendoy thrust sheets, our data provide evidence that a significant proportion of the unit was also sourced from the distal northwest, specifically the Lemhi sub-basin of east-central Idaho. There is a remarkable presence of grains with an age of ~1380 Ma (n=47), which are unique to intrusions into the Lemhi sub-basin (e.g. Evans and Zartman, 1990; Doughty and Chamberlain, 1996). There are a smaller number of grains with an age of ~650 Ma (n=9), which are found in the Big Creek plutons west of the Lemhi sub-basin (Lund et al., 2010). We have also shown that some zircons that were sourced generally from the Lemhi Group are present in our Knob Mountain sample, requiring that the regional paleoriver system must have initiated by early Campanian time (~83 Ma). The system must have been active at least throughout the Maastrichtian, as our youngest sample from the Clark Canyon Reservoir area that contains Lemhi Group contributions has an MDA of 66.4 ± 0.9 Ma.

In addition, evidence for some Prichard Formation and Priest River Complex contributions to the Knob Mountain Formation further imply that a paleoriver connected northwestern Montana-northeastern Idaho to the Tendoy Mountains as well. Contributions from the Missoula Group and Maurice Mountain Formation (Grace Lake) in some parts of the Beaverhead (Ashbough Canyon limestone and quartzite conglomerates, Clark Canyon Reservoir undivided conglomerate) further suggest an overall southeast directed sediment flux through paleorivers, which is supported by paleocurrent data from Ryder and Scholten (1973). Our detrital zircon signatures do not match with those of passive margin strata involved in the Cordilleran thrust belt of southern British

Columbia and Nevada-Utah (Gehrels and Pecha, 2014), confirming that sediment sources for the Beaverhead were confined to the Idaho-Montana region of the Cordillera.

6.2: Implications for timing of local deformation and local sediment sources

The depositional history of the Knob Mountain Formation has been heavily debated in previous literature, as both its sediment sources and depositional age are unclear. Schmitt et al. (1995) provided the latest description for the Knob Mountain, describing it as limestone-clast dominated conglomerates with Jurassic-Pennsylvanian (no Mississippian) limestone and lower Cretaceous sandstone clasts, that interfingers with Belt quartzite-clast dominated conglomerates of the informal Divide quartzite conglomerate. The lack of Mississippian clasts suggests that thrust sheets in Idaho-Montana were not yet unroofed into the Mississippian as the Knob Mountain Formation was deposited (18MT-17, YSG=83.1 ± 0.6 Ma). Haley (1985) noted that the Knob Mountain unconformably overlies Jurassic and lower Cretaceous strata that are part of the Tendoy thrust sheet, and that the top of the Knob Mountain was later overridden by the Medicine Lodge thrust. The Tendoy or Medicine Lodge thrust sheets, or both, were also inferred as possible sediment sources for the Knob Mountain.

In the case that our maximum depositional age for 18MT-17 (83.1 ± 0.6 Ma) is reflective of the true depositional age for the Knob Mountain Formation, and it is true that the unit is sourced partly from the Tendoy thrust, then some part of the Tendoy thrust is required to be active by this time, which contradicts previous and much younger estimates for the general timing of Tendoy thrusting (e.g. Perry and Sando, 1982; Perry et al., 1988). We infer that if the Tendoy thrust was active at this time, it would have been in its earliest stages and still unroofing only Mesozoic strata. Our field observations support this in that the Mesozoic strata underlying the Knob Mountain is still present and only moderately deformed. Upper Paleozoic and Mesozoic clasts

found in the Knob Mountain could alternatively have been sourced from the Medicine Lodge thrust sheet. Notwithstanding, as described above, sediment in the Knob Mountain appears to be sourced largely from more distal sources. The Upper Paleozoic limestones may be slightly distally sourced from the Fritz Creek or Hawley Creek thrust sheets just to the south in Idaho.

Our maximum depositional age for sample 18MT-36 of the Lima Conglomerate is 81.6 ± 0.9 Ma (early Campanian). Our maximum depositional age appears reliable, as it supports the previous interpretation based on palynomorphs that the Lima Conglomerate is Santonian-Campanian in age (Haley, 1985). Therefore, it is required that the Blacktail-Snowcrest uplift was actively uplifting and eroding by early Campanian time. The presence of Cambrian sandstone clasts also suggests that the uplift was exhumed down to the Cambrian level by the time this unit was deposited (e.g. Schmitt et al., 1995). Previous workers (e.g. Haley, 1985; Schmitt et al., 1995) noted that the upper Lima Conglomerate contains Cambrian clasts with some Archean clasts at the top. Therefore, the presence of Cambrian clasts shows that 18MT-36 is from the upper parts of the Lima Conglomerate, suggesting the Blacktail-Snowcrest was actively uplifting and eroding for some time before ~ 82 Ma in order to be exhumed through Cambrian strata. As expected, this age implies the Blacktail-Snowcrest may be considerably older than the well-constrained Laramide uplifts in Wyoming (generally <70 Ma).

In contrast, all our samples from units of the Beaverhead Group that are interpreted to be largely sourced from the Sevier thrust belt to the west are significantly younger (~ 10 Ma) than the Lima Conglomerate sample associated with exhumation of the Blacktail-Snowcrest uplift. This suggests that there may be a considerable lag time between foreland basin deposition related to basement-involved foreland uplift versus propagation of the more foreland-proximal thrust sheets the fold-thrust belt.

Considering the maximum depositional age of our oldest Beaverhead sample that is most clearly related to the local thrust belt (YSG=72.5 ± 1.0 Ma, Kidd Quartzite conglomerate), there must have been active movement within the thrust belt by latest Campanian time. All our other Beaverhead samples that are more clearly sourced from units within the Sevier thrust belt span throughout the Maastrichtian (72.1-66 Ma), implying that much of the thrust belt was heavily active throughout at least the Maastrichtian.

Previously, the portions of the Beaverhead Group that are thought to be derived from the Sevier thrust belt have been largely correlated to the Tendoy thrust in particular, based on structural and stratigraphic relationships as well as clast lithologies (e.g. Haley, 1985; Skipp, 1988; Haley and Perry, 1991). However, it is important to consider the possibility that other thrust sheets (e.g. Medicine Lodge, Four Eyes Canyon, Cabin, Hawley Creek) may have contributed sediment to the Beaverhead. Given the thickness of Triassic-Mississippian strata that are still exposed on the Tendoy thrust sheet today, and the fact that the Tendoy overrides the Beaverhead in some areas, it seems unlikely that these thick Beaverhead successions were eroded entirely from the Tendoy sheet. Triassic strata are no longer present on the other three local thrust sheets (Medicine Lodge, Four Eyes Canyon, Cabin), meaning they have been completely unroofed down to at least Carboniferous strata. This may account for the significant amounts of Triassic clasts in the Beaverhead of McKnight Canyon, Red Butte, and Clark Canyon Reservoir. In addition, Permian and Pennsylvanian strata have been completely unroofed from the Medicine Lodge thrust sheet, so this may account for the large amounts of Phosphoria chert (Ashbough Canyon limestone conglomerate, McKnight Canyon, Red Butte) and Quadrant sandstone in the Beaverhead. Therefore, given the current stratigraphic successions preserved on the local thrust sheets, Mississippian clasts in Ashbough Canyon limestone conglomerate,

McKnight Canyon, Red Butte, and Clark Canyon Reservoir units of the Beaverhead Group were likely eroded from the Medicine Lodge and McKenzie-Four Eyes Canyon thrust sheets (Skipp, 1988; Williams and Bartley, 1988). The Ashbough Canyon limestone conglomerate is at least partially sourced from the Hawley Creek due to the presence of zircons unique to the Beaverhead Plutons (Lund et al., 2010). It is possible that clasts at Clark Canyon Reservoir could be sourced in part from the Tendoy thrust, as this unit is younger than the Red Butte Conglomerate based on our interpreted maximum depositional ages and the Red Butte is the youngest unit observed to be cut by the Tendoy thrust.

7: CONCLUSIONS

The Beaverhead Group constitutes the majority of the Upper Cretaceous stratigraphy in Southwest Montana and represents an interval of coarse-grained, synorogenic sedimentation from at least ~83-66 Ma (Campanian-Maastrichtian). Our oldest detrital zircon sample from the Knob Mountain Formation (18MT-17; YSG=83.1 ± 0.6 Ma) reflects both local and distal source areas. These rocks unconformably overlie Mesozoic strata deformed by the Tendoy thrust and contain Lower Cretaceous clasts (Blackleaf Formation), suggesting that part of the Tendoy thrust was actively exhuming only through the Mesozoic at this time. Upper Paleozoic clasts may have been sourced from the Medicine Lodge, Fritz Creek, or Hawley Creek thrusts further to the west in Idaho, suggesting the western portions of the thrust belt were also active at this time. In addition, the presence of distinctive zircons from the Lemhi sub-basin area of east-central Idaho in the Knob Mountain plus distinctive interfingering with well-rounded-quartzite-clast conglomerate suggest additional sourcing from the northwest through a regional paleoriver system.

Conglomerates and sandstones from the Antone Peak Formation on the southeast flank of the Snowcrest Range were locally sourced from the Blacktail-Snowcrest Laramide uplift, based on clast lithologies, the lack of any Belt Supergroup or Idaho Batholith contributions, and previous paleocurrent and palynology data. Our maximum depositional age from the upper Lima Conglomerate (18MT-36; YSG=81.6 ± 0.9 Ma) and the presence of Cambrian sandstone clasts therefore suggests that the Blacktail-Snowcrest uplift was exhumed and eroded to the Cambrian level by this time and was actively exhuming for some time before. This inherently implies that the Blacktail-Snowcrest uplift, outside of the Laramide flat-slab trajectory, is markedly older than well-defined Laramide uplifts in Wyoming (<70 Ma) that are within the flat-slab subduction corridor.

Units from the Beaverhead Group that are interpreted to have been sourced from the Sevier thrust belt to the west are significantly younger (~10 Ma) than the Lima Conglomerate associated with exhumation of the Blacktail-Snowcrest uplift, suggesting a considerable lag time between foreland basin deposition related to basement-involved foreland uplift versus the local fold-thrust belt. Beaverhead rocks within Ashbough Canyon and McKnight Canyon, as well as those at Red Butte and near Clark Canyon Reservoir, also appear to have both local and regional sources to varying extents. Clasts in these units correlate to Paleozoic and Mesozoic units involved in local parts of the Sevier thrust belt as well as Belt Supergroup rocks in Idaho, which is further supported by our zircon data. Local sediments were sourced through alluvial fans flanking the thrust belt while distal sediments were likely sourced by multiple converging large-scale paleorivers flowing from more distal (northwest) areas in a southeast direction to the foreland basin, which is supported by previous paleocurrent data (Ryder and Scholten, 1973).

Clast lithologies and field relationships between the Tendoy thrust and the Beaverhead suggest that the Beaverhead is not largely sourced from the Tendoy thrust as previously thought. Given the present configurations of the different local thrust sheets and the clast lithologies and amounts present in the Beaverhead, the local Medicine Lodge, Four Eyes Canyon, and Cabin thrusts are more likely contributors. The distal Hawley Creek thrust may also be an additional contributor of non-Belt Supergroup sediments. The Kidd quartzite conglomerate (18MT-20; YSG= 72.5 ± 1.0 Ma) is mostly sourced from the Belt Supergroup with minor local thrust belt sources. The McKnight Canyon upper conglomerate sequence (MC-21; YSG= 70.1 ± 0.9 Ma) seems to only have local sources and is likely sourced from the units involved specifically in the McKenzie Canyon-Four Eyes Canyon composite thrust system, requiring this thrust system to be active at this time. The Red Butte Conglomerate (RB-0.5; YSG= 70.7 ± 1.1 Ma) overlaps in age with the McKnight Canyon sample based on YSG. This unit has little Belt Supergroup contributions and mostly local thrust belt contributions. The limestone conglomerate in Ashbough Canyon is younger than previously interpreted (AC-10; YSG= 67.1 ± 0.9 Ma) and is sourced in part from the Belt Supergroup and the local thrust belt. The presence of Belt Supergroup contributions and distinctive zircons from the Beaverhead plutons require a more distal Hawley Creek thrust source. Strata may additionally be sourced from the local thrusts. Our youngest sample from the undivided conglomerate near Clark Canyon Reservoir (YSG= 66.4 ± 0.9 Ma) is an admixture of Belt Supergroup and local thrust belt contributions, implying that the regional paleoriver system and local thrust belt was still active at least through the Maastrichtian (Figure 11).

TABLES

Table 1: Compilation of Beaverhead Group field sampling locality information in Southwest Montana.

Sample	Unit	Location	Coordinates	Elevation (meters)	Detrital Zircons analyzed	Clast Count/MCS	Thin Section
CCR-92	Beaverhead Group: Undivided conglomerate	North end of Clark Canyon Reservoir dam off Spillway Rd	45.0049, -112.85587	1635		X	
CCR-89	Beaverhead Group: Undivided conglomerate	North end of Clark Canyon Reservoir dam off Spillway Rd					X
CCR-60	Beaverhead Group: Undivided conglomerate	North end of Clark Canyon Reservoir dam off Spillway Rd					X
CCR-38	Beaverhead Group: Undivided conglomerate	North end of Clark Canyon Reservoir dam off Spillway Rd				X	
CCR-8.2	Beaverhead Group: Undivided conglomerate	North end of Clark Canyon Reservoir dam off Spillway Rd.	45.005, -112.85575	1591	X		X
CCR-6	Beaverhead Group: Undivided conglomerate	North end of Clark Canyon Reservoir dam off Spillway Rd	45.005, -112.85575	1591		X	

Table 1—Continued

RB-119	Beaverhead Group: Red Butte conglomerate	Red Butte near Dell, MT	44.71392, -112.67988			X	
RB-67.6	Beaverhead Group: Red Butte conglomerate	Red Butte near Dell, MT					X
RB-54	Beaverhead Group: Red Butte conglomerate	Red Butte near Dell, MT				X	
RB-25.5	Beaverhead Group: Red Butte conglomerate	Red Butte near Dell, MT				X	X
RB-0.5	Beaverhead Group: Red Butte conglomerate	Red Butte near Dell, MT	44.7139, -112.67988	1848	X		
RB-1	Beaverhead Group: Red Butte conglomerate	Red Butte near Dell, MT					X
RB-0	Beaverhead Group: Red Butte conglomerate	Red Butte near Dell, MT	44.7139, -112.67988	1848		X	
MC-93.5	Beaverhead Group: McKnight Canyon upper conglomerate	McKnight Canyon Rd	44.77033, -112.81934				X
MC-51	Beaverhead Group: McKnight Canyon upper conglomerate	McKnight Canyon Rd					X
MC-49	Beaverhead Group: McKnight Canyon upper conglomerate	McKnight Canyon Rd					X
MC-46	Beaverhead Group: McKnight Canyon upper conglomerate	McKnight Canyon Rd					X
MC-37	Beaverhead Group: McKnight Canyon upper conglomerate	McKnight Canyon Rd					X
MC-36	Beaverhead Group: McKnight Canyon upper conglomerate	McKnight Canyon Rd				X	
MC-29	Beaverhead Group: McKnight Canyon upper conglomerate	McKnight Canyon Rd					X
MC-21	Beaverhead Group: McKnight Canyon upper conglomerate	McKnight Canyon Rd.	44.7703, -112.81934	2001	X		X

Table 1—Continued

MC-9	Beaverhead Group: McKnight Canyon upper conglomerate	McKnight Canyon Rd	44.7703, -112.81934	2001		X	
18MT-20	Beaverhead Group: Ashbough Canyon, Kidd quartzite conglomerate	Ashbough Canyon	44.8087, -112.67759	2016	X		X
18MT-19	Beaverhead Group: Ashbough Canyon, Kidd quartzite conglomerate	Ashbough Canyon	44.8087, -112.67759	2016		X	X
AC-42.5	Beaverhead Group: Ashbough Canyon, undivided limestone conglomerate	Ashbough Canyon	44.8146, -112.67632	2020		X	X
AC-10	Beaverhead Group: Ashbough Canyon, undivided limestone conglomerate	Ashbough Canyon	44.8152, -112.67533	2003	X		X
AC-1	Beaverhead Group: Ashbough Canyon, undivided limestone conglomerate	Ashbough Canyon	44.8152, -112.67533	2003		X	
18MT-36	Beaverhead Group: Antone Peak Fm. (Lima conglomerate)	Antone Peak area, Snowcrest Range	44.7491, -112.24023	2465	X	X	X
18MT-37	Beaverhead Group: Antone Peak Fm. (Lima conglomerate)	Antone Peak area, Snowcrest Range	44.7491, -112.24023	2389		X	
18MT-38	Beaverhead Group: Antone Peak Fm. (Lima conglomerate)	Antone Peak area, Snowcrest Range	44.75092, -112.24288	2353			X
18MT-44	Beaverhead Group: Antone Peak Fm. (Lima conglomerate)	Lima, MT area	44.61835, -112.56851	1975		X	X
18MT-28	Beaverhead Group: Antone Peak Fm. (Clover Creek Member)	Antone Peak area, Snowcrest Range	44.74386, -112.28117	2220			X
18MT-26	Beaverhead Group: Antone Peak Fm.? (Monida sandstone)	S. Valley Rd. just north of Monida, MT	44.5676, -112.30894	2074	X		X

Table 1—Continued

18MT-22	Beaverhead Group: Knob Mountain Fm.	Sawmill Creek Rd. and Continental Divide trail area	44.49714, -112.48429	2254		X	
18MT-17 18MT-45	Beaverhead Group: Knob Mountain Fm.	Red conglomerate peaks, Sawmill Creek Rd. and Continental Divide trail	44.4959, -112.58866	2769	X	X	
18MT-21	Quadrant Fm. (Pennsylvanian)	Sandy Hollow near Dillon, MT	45.4376, -112.56565	1485	X		
18MT-27	Quadrant Fm. (Pennsylvanian)	Blacktail Rd., Snowcrest Range	44.7571, -112.30006	2170	X		

Table 2: Sandstone petrography results listed in approximate stratigraphic order. Q= quartz, F= Feldspar, L= Lithics. Of the total lithics, Lv= volcanic, Ls= sedimentary, Lm= metamorphic. Of the total sedimentary lithics, Lsm+Lsz= mudstone + siltstone, Lss= sandstone, Lsl= limestone.

Sample	Beaverhead Unit	Q%	F%	L%	Lv%	Ls%	Lm%	Lsm+Lsz%	Lss%	Lsl%
CCR-89	Undivided Cgl.	54.75	3.5	41.75	2	98	0	0	0	100
CCR-60	Undivided Cgl.	20	1	79	0	100	0	0	0	100
CCR-8.2	Undivided Cgl.	57	2	41	0	100	0	0	0	100
RB-67.6	Red Butte cgl.	45	1	55	0	100	0	0	0	100
RB-25.5	Red Butte cgl.	82	1	17	0	100	0	3	0	97
RB-1	Red Butte cgl.	62	0	38	0	100	0	14	0	86
MC-93.5	McKnight Canyon, upper conglomerate	93	0	7	4	96	0	0	0	100
MC-51	McKnight Canyon, upper conglomerate	92	0	8	0	100	0	29	0	71
MC-49	McKnight Canyon, upper conglomerate	94	0	6	0	100	0	22	0	78
MC-46	McKnight Canyon, upper conglomerate	92	0	8	0	100	0	19	0	81
MC-37	McKnight Canyon, upper conglomerate	91	0	9	0	100	0	47	0	53
MC-29	McKnight Canyon, upper conglomerate	98	0	2	0	100	0	0	0	100
MC-21	McKnight Canyon, upper conglomerate	82.5	0	17.5	1	99	0	6	0	94
18MT-20	Ashbough Canyon, Kidd quartzite cgl.	39	1	60	5	95	0	37	2	61
18MT-19	Ashbough Canyon, Kidd quartzite cgl.	67	3	30	8	92	0	78	4	18
AC-42.5	Ashbough Canyon, limestone cgl.	4	0	96	1	99	0	0	0	100
AC-10	Ashbough Canyon, limestone cgl.	8.5	0.75	90.75	1	99	0	0	0	100
18MT-36	Antone Peak Fm., Lima conglomerate	22	0	78	0	100	0	1	0	99
18MT-38	Antone Peak Fm., Lima conglomerate	96	0	4	12.5	87.5	0	0	0	100
18MT-44	Antone Peak Fm., Lima conglomerate	40	0	60	1	99	0	3	0	97
18MT-28	Antone Peak Fm., Clover Creek Mbr.	37	8	55	5	95	0	15	0	85
18MT-26	Antone Peak Fm.?, Monida ss. unit	87	0	13	6	94	0	0	0	100

Table 3: Maximum depositional ages for Beaverhead Group detrital zircon samples. YSG= youngest single grain, Y2G= weighted mean of the youngest two grains, Y3G= weighted mean of the youngest three grains, YPA= weighted mean age calculated from a group of young ages that overlap with a target MSWD of 1. The Unmix age method is a modeling technique that creates Gaussian best-fit distributions for each age group and produces a peak age with uncertainty for each distribution (e.g. Dickinson, 2009; Ludwig, 2012; Coutts et al., 2019).

Sample ID	YSG (Ma)	Y2G (Ma)	Y3G (Ma)	YPA (Ma)	YPA Error (\pm Ma)	YPA MSWD	Unmix (Ma)	misfit
18MT-17	83.1 \pm 0.6	83.6 \pm 8.1 MSWD=1.9	83.9 \pm 2.8 MSWD=2.5	87.28 n=18	0.39	0.96	83.62 \pm 0.95	0.150 6 components
18MT-36	81.6 \pm 0.9	-	-	-	-	-	-	-
18MT-20	72.5 \pm 1.0	73 \pm 12 MSWD=1.8	-	73 n=2	12	1.8	-	-
AC-10	67.1 \pm 0.9	-	69.8 \pm 5.6 MSWD=7.1	71.94 n=7	0.60	0.88	-	-
MC-21	70.1 \pm 0.9	72 \pm 22 MSWD=7.2	-	-	-	-	-	-
RB-0.5	70.7 \pm 1.1	71.1 \pm 1.4 MSWD=0.26	71.3 \pm 1.1 MSWD=0.19	72.60 n=8	0.71	1.05	71.75 \pm 1.2	0.925 2 components
CCR-8.2	66.4 \pm 0.9	66.4 \pm 1.2 MSWD=0.0053	66.82 \pm 0.91 MSWD=0.45	67.54 n=7	0.95	1.3	67.45 \pm 0.72	0.454 2 components

FIGURES

Figure 1: a) Generalized map of Cordilleran region of southwest Montana and east-central Idaho. b) Geologic map view of the study area including locations of Beaverhead samples. Note that AC, MC, RB, and CCR are localities of measured sections (Appendix A). Note that white represents Cenozoic deposits on both maps. Maps were created in ArcGIS using compiled map data from the following: Rember and Bennett (1979); Fisher et al. (1992); Ruppel et al. (1993); Wilson and Skipp (1994); Ruppel (1998); Kellogg and Williams (2000); Lonn et al. (2000); Lewis and Stanford (2002); Vuke et al. (2002); O'Neill and Christiansen (2004); Lewis et al. (2012); Lonn et al. (2016).

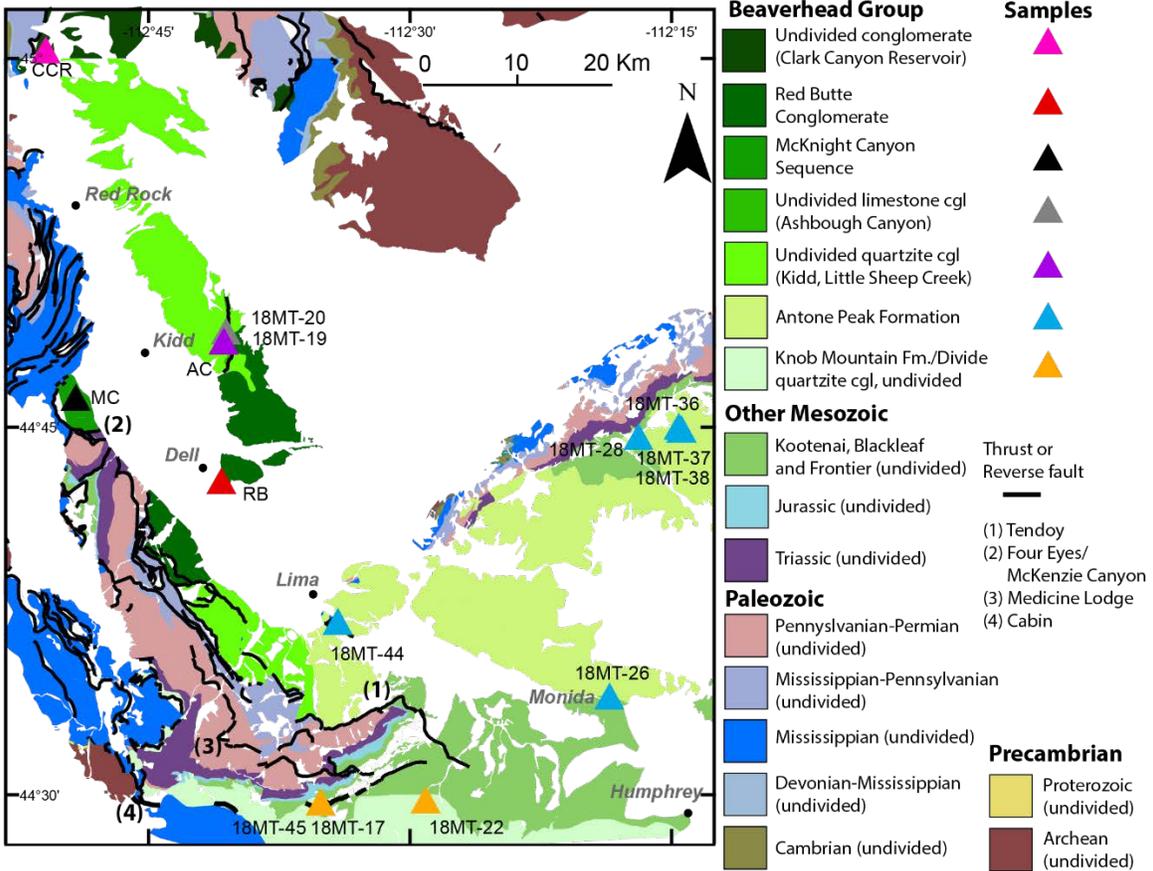
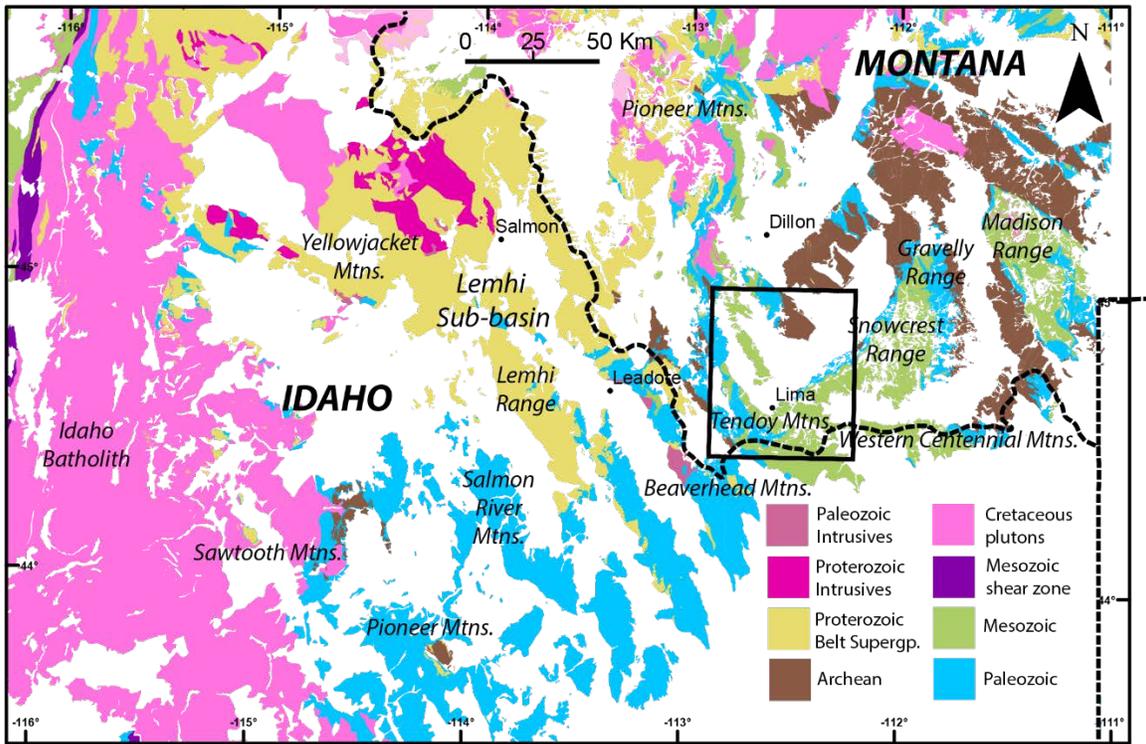
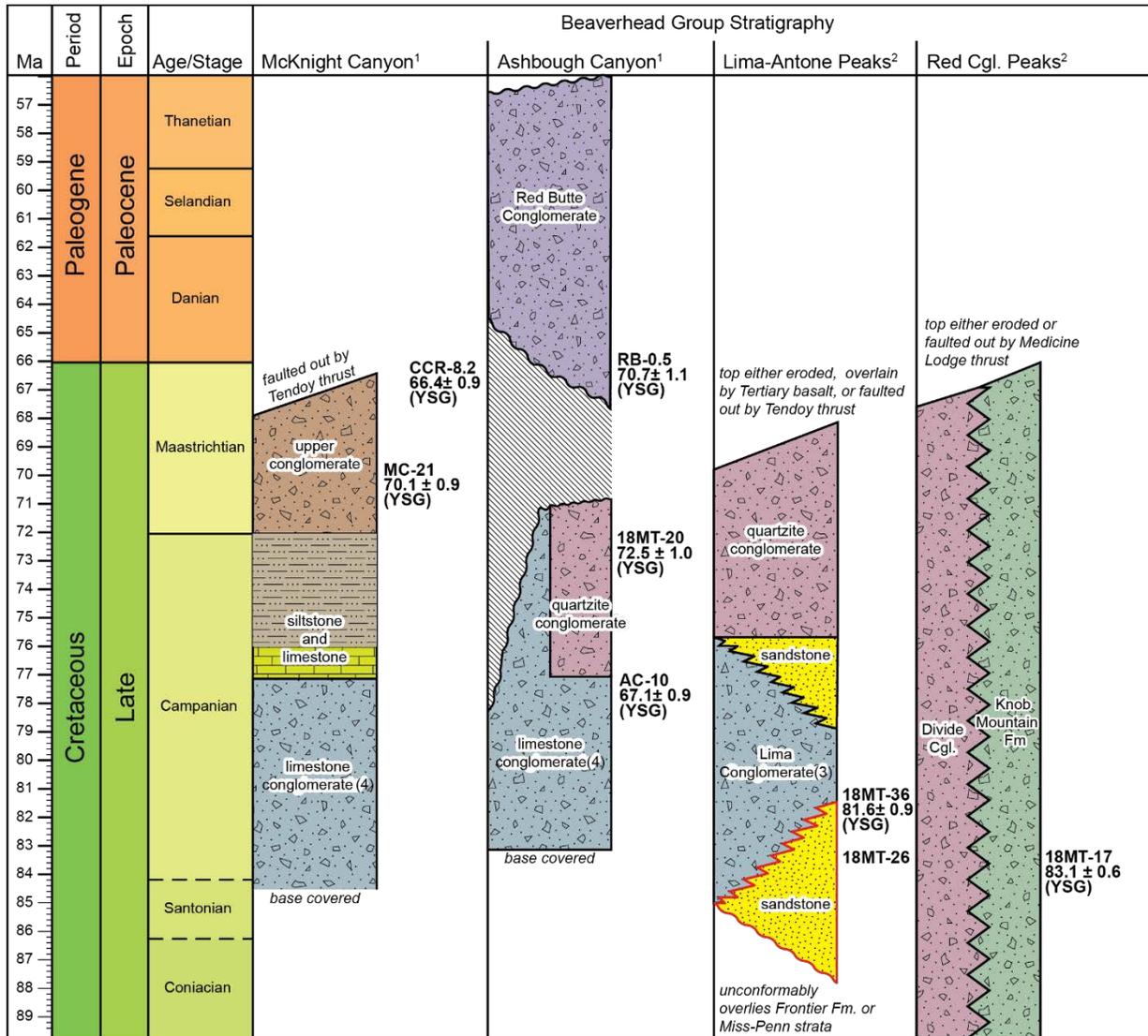


Figure 2: Beaverhead Group stratigraphic chart modified from Haley and Perry (1991). Detrital zircon samples are placed according to previous age constraints with interpreted maximum depositional ages from this study. Note that CCR-8.2 is not stratigraphically represented on this diagram but is placed according to its maximum depositional age and the nearest possibly related outcrop.



¹Modified from Haley and Perry (1991)

²Modified from Haley and Perry (1991) and Schmitt et al. (1995)

³Antone Peak Formation of Haley (1986)

⁴May be equivalent to the Lima Cgl based on clast compositions

- Clast assemblage = Triassic-Mississippian limestone/clastics + Belt Supergroup + recycled Beaverhead cgl
- Clast assemblage = Triassic-Mississippian limestone/clastics no recycled cgl clasts
- Clast assemblage = Triassic-Mississippian limestone/clastics, minor Cambrian Flathead and Dillon granite gneiss in the upper Lima Conglomerate.
- Clast assemblage = Belt Supergroup + minor Triassic-Mississippian limestone/clastics, recycled ls cgl clasts
- Clast assemblage = Jurassic-Pennsylvanian limestone/clastics, minor Cretaceous sandstone clasts
- Clover Creek and Monida sandstones of the Antone Peak Formation

Figure 3: Representative field photographs of various units within the Beaverhead Group. A) Limestone conglomerate of the Knob Mountain Formation near Red Conglomerate Peaks. B) Monida sandstone of the Antone Peak Formation near Monida, MT. C) Lima Conglomerate and interbedded sandstones of the Antone Peak Formation on the southeastern flank of the Snowcrest Range near Antone Peak. D) Undivided limestone conglomerate of Ashbough Canyon. E) Kidd quartzite conglomerate of Ashbough Canyon. F) Upper limestone conglomerate of McKnight Canyon. G) Red Butte Conglomerate near Dell, MT and overlook of Red Conglomerate Peaks to the southwest. H) Undivided limestone dominated conglomerate just north of Clark Canyon Reservoir.











Figure 4: Clast counts for each Beaverhead Group locality shown as a cumulative percentage plot. Samples are listed in approximate stratigraphic order based on previous literature and our interpretations for maximum depositional ages.

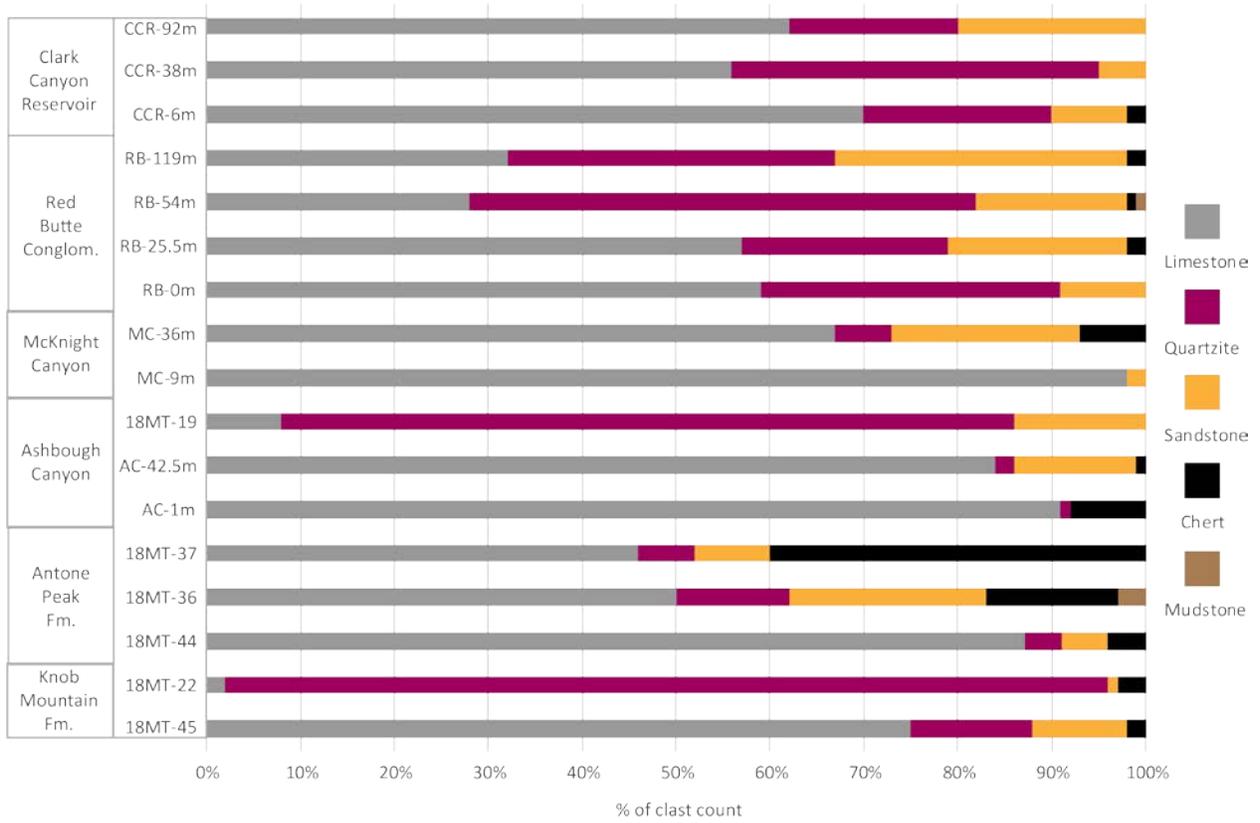


Figure 5: Summary of measurements of the longest axis of the 10 largest clasts present at each Beaverhead locality. The numbers above each bar represent the average size for cobbles and boulders at each locality. Samples are listed in approximate stratigraphic order based on previous literature and our interpretations for maximum depositional ages.

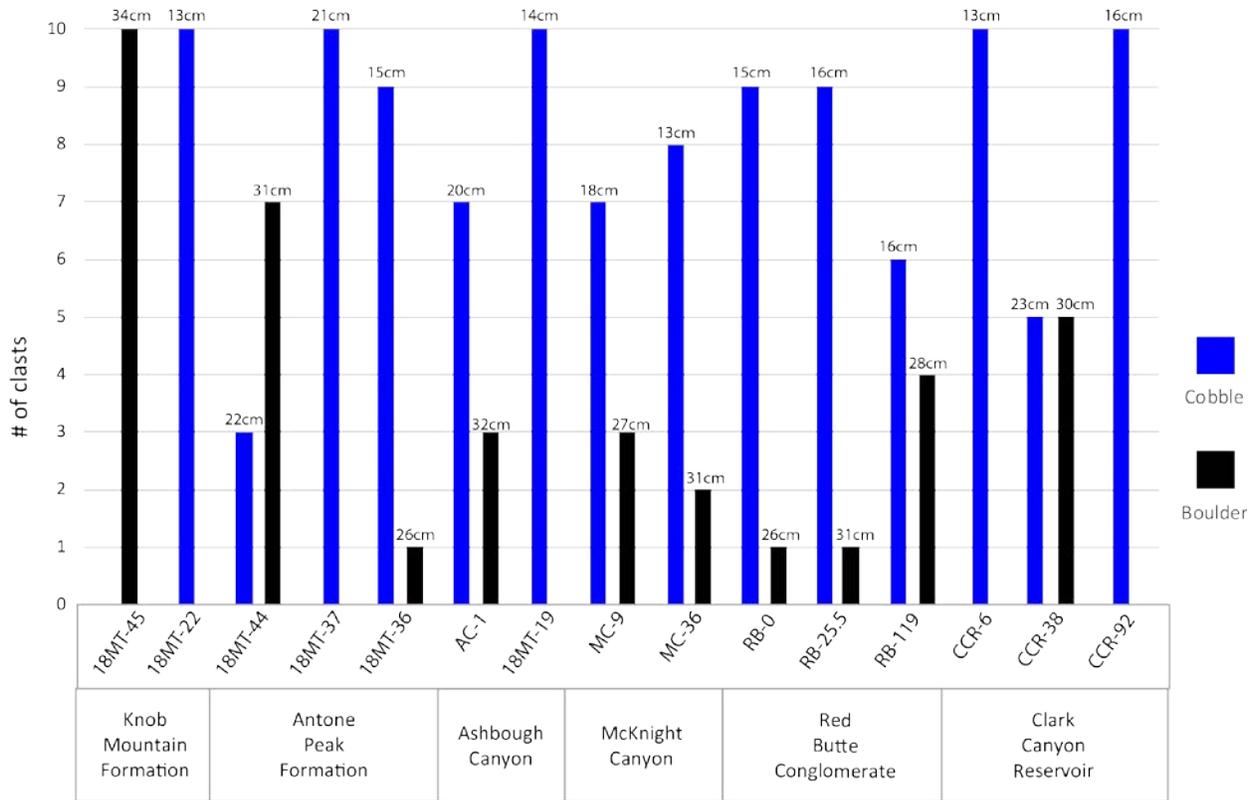
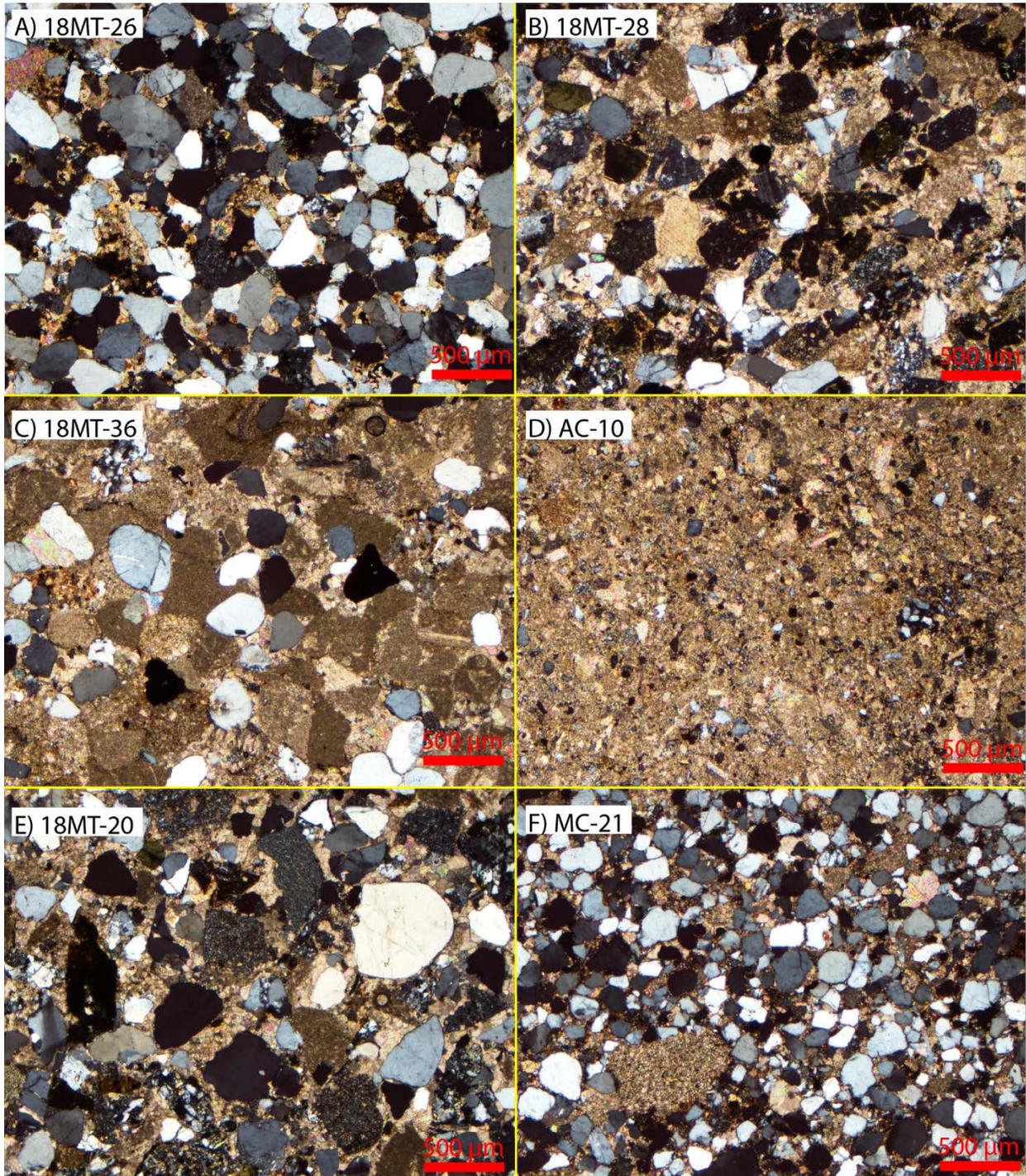


Figure 6: Representative sandstone thin section photomicrographs from the Beaverhead Group. Each section was stained for feldspar. A) Monida sandstone (Antone Peak Formation); B) Clover Creek Member (Antone Peak Fm.); C) Lima Conglomerate (Antone Peak Fm.); D) Limestone conglomerate in Ashbough Canyon; E) Quartzite conglomerate in Ashbough Canyon; F), G) and H) McKnight Canyon upper limestone conglomerate; I) and J) Red Butte Conglomerate type section near Dell, MT; K) and L) Undivided conglomerate near Clark Canyon Reservoir



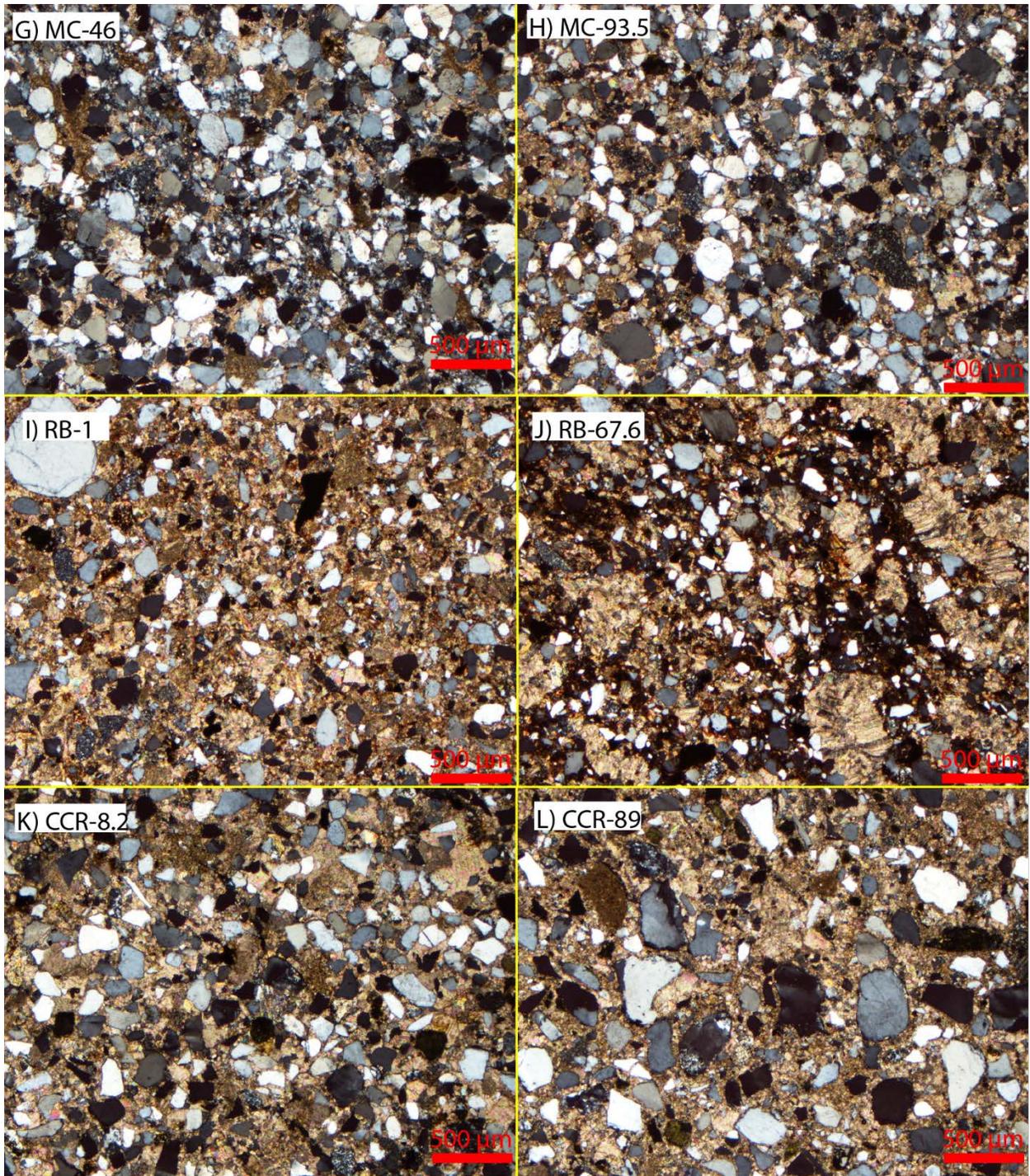
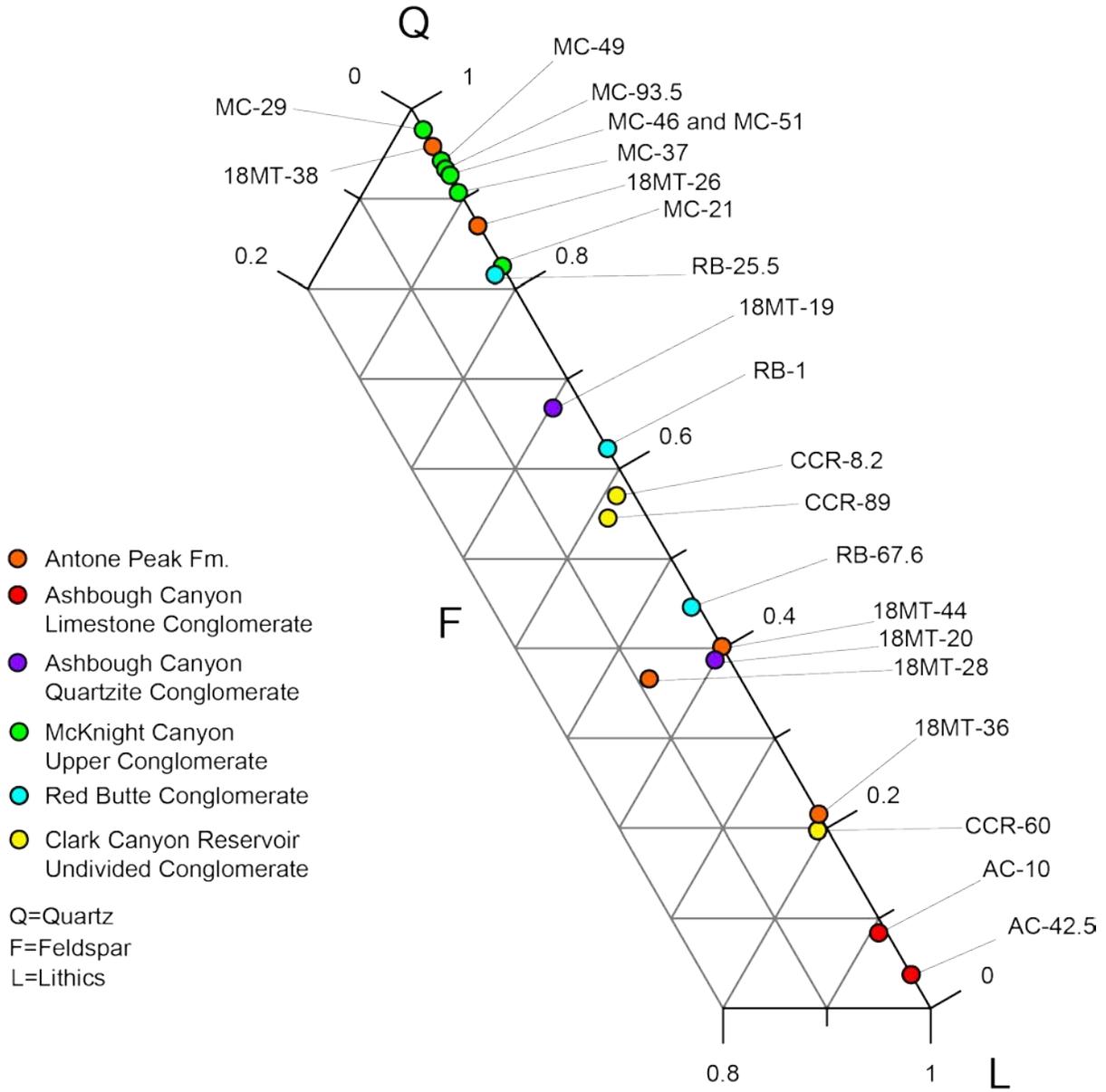


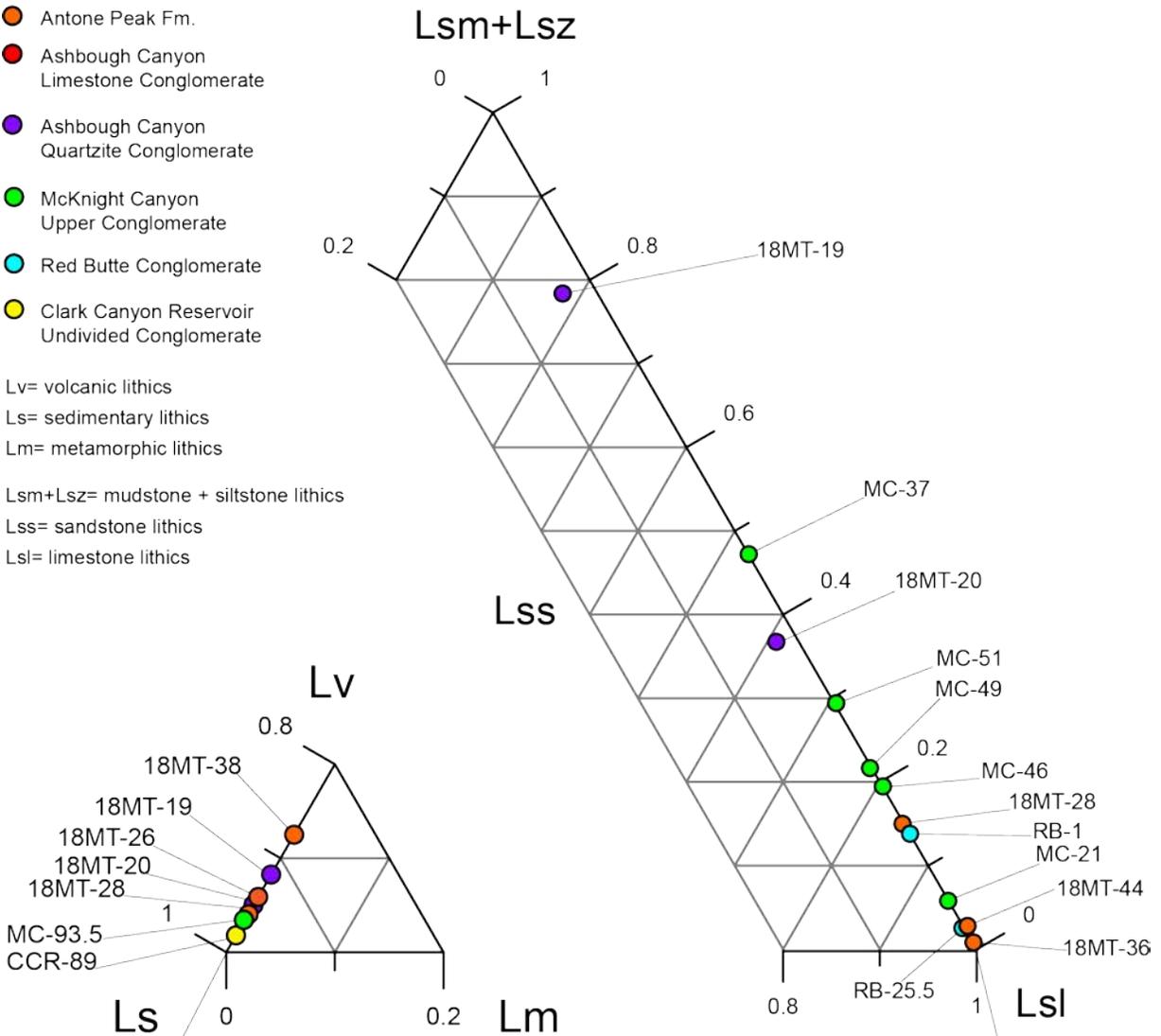
Figure 7: a) Ternary QFL diagram of all Beaverhead sandstone thin section point counting results. b) Ternary diagram of lithics from Beaverhead sandstone thin sections and ternary diagram displaying sedimentary lithics from Beaverhead sandstone thin sections (see Table 2 for raw data).



- Antone Peak Fm.
- Ashbough Canyon Limestone Conglomerate
- Ashbough Canyon Quartzite Conglomerate
- McKnight Canyon Upper Conglomerate
- Red Butte Conglomerate
- Clark Canyon Reservoir Undivided Conglomerate

Lv= volcanic lithics
 Ls= sedimentary lithics
 Lm= metamorphic lithics

Lsm+Lsz= mudstone + siltstone lithics
 Lss= sandstone lithics
 Lsl= limestone lithics

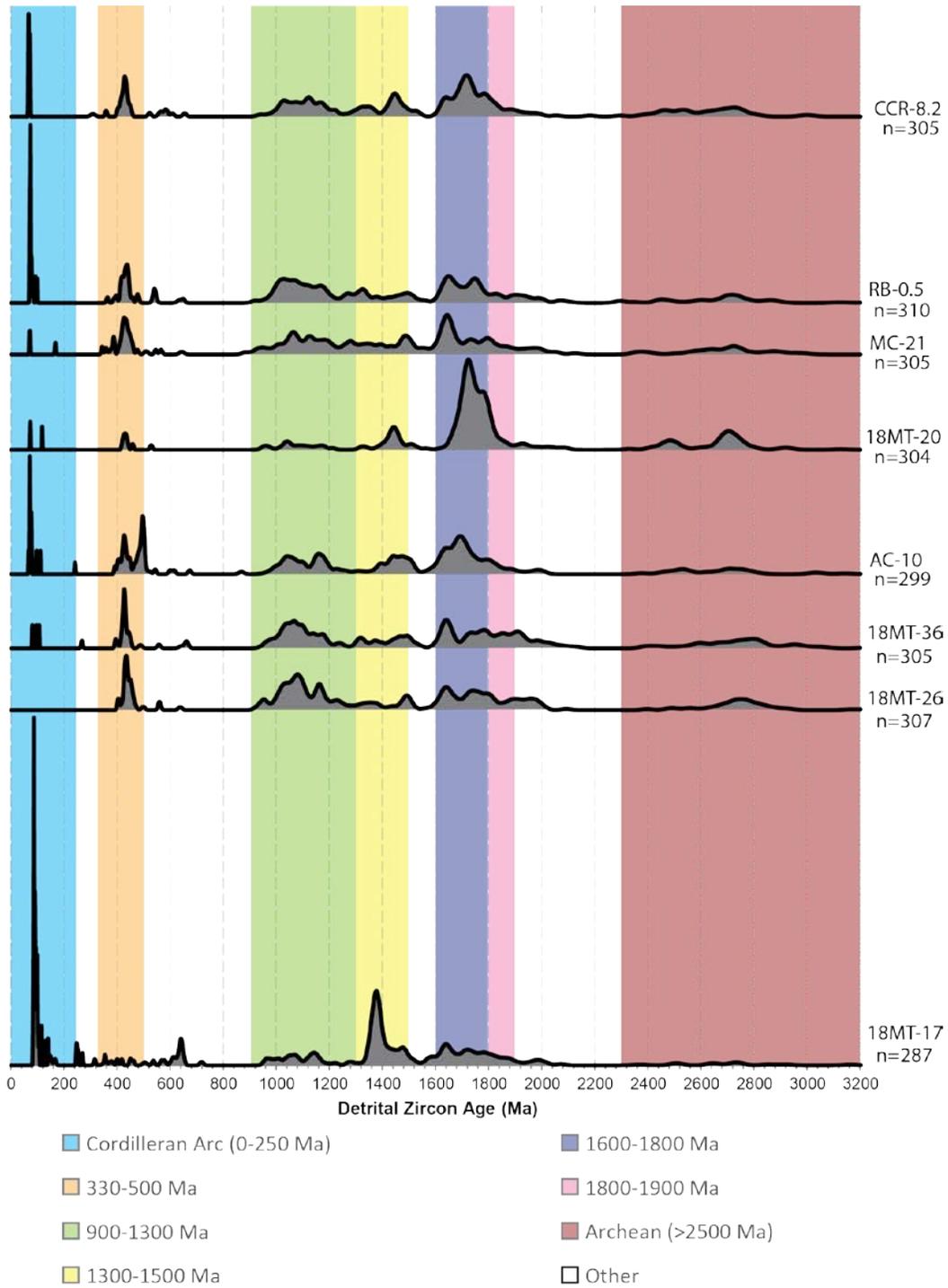


*100% Ls: 18MT-36, all RB, MC-29, MC-37, MC-46, MC-49, MC-51, CCR-8.2, CCR-60

*99% Ls: 18MT-44, all AC, MC-21

*100% Lsl: 18MT-26, 18MT-38, all AC, MC-29, MC-93.5, RB-67.6, all CCR

Figure 8: A) Normalized probability plots of Beaverhead detrital zircon samples. 18MT-17= Limestone conglomerate from the Knob Mountain Formation. 18MT-26= Monida sandstone, Antone Peak Formation. 18MT-36= Lima Conglomerate, Antone Peak Formation. AC-10= Limestone conglomerate of Ashbough Canyon. 18MT-20= Quartzite conglomerate of Ashbough Canyon. MC-21= Upper limestone conglomerate of McKnight Canyon. RB-0.5= Red Butte Conglomerate. CCR-8.2= Undivided conglomerate, Clark Canyon Reservoir. B) Pie charts for the Beaverhead Group showing proportions of specified detrital zircon age populations.



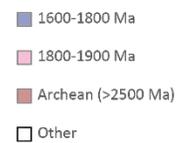
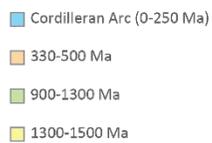
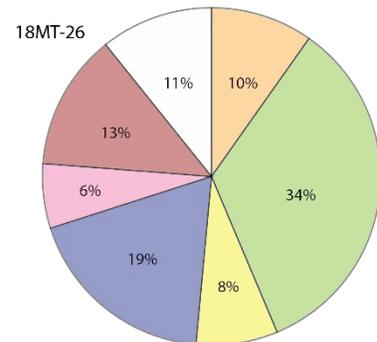
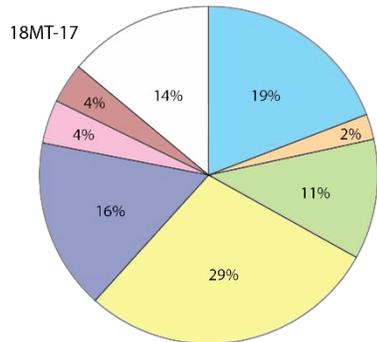
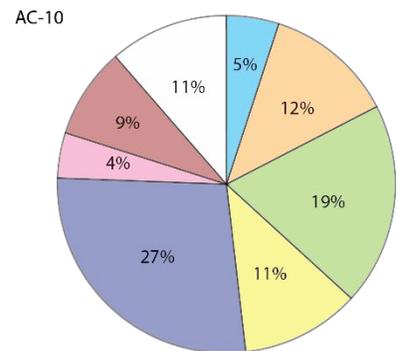
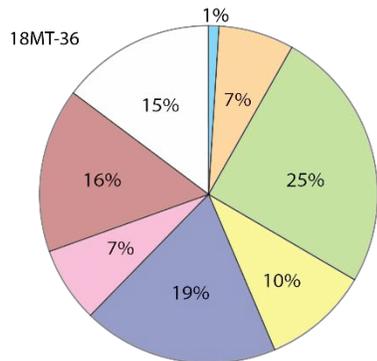
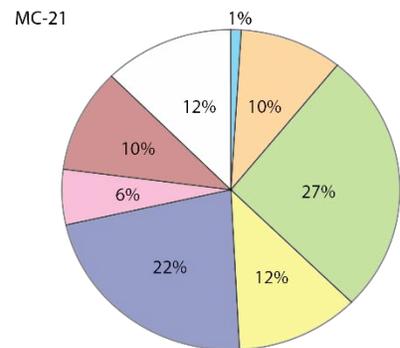
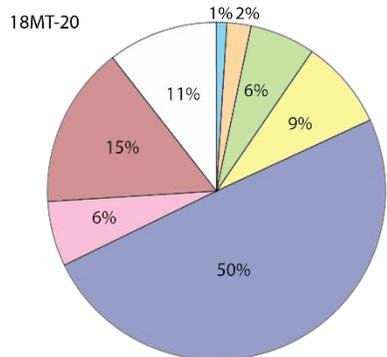
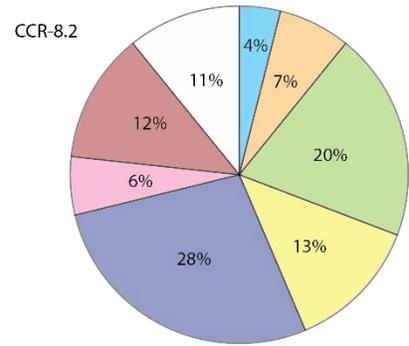
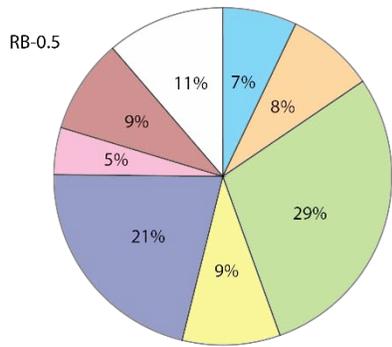


Figure 9: Normalized probability plot for potential sediment sources to the Beaverhead Group used in DZ Mix. A) Combined Lemhi Group/Sub-basin strata of the Belt supergroup: Link, 2007 (Yellowjacket Fm. and Hoodoo quartzite); Lewis et al., 2010 (Golden, Elk City sequences); Stewart et al., 2010 (Gunsight, Inyo Creek, West Fork, Big Creek); Link et al., 2016 (Gunsight, Swauger, Apple Creek, Lawson Creek formations). B) Combined Missoula Group, Belt Supergroup (Stewart et al., 2010; Link et al., 2016). C) Combined Prichard Formation (Link, 2007; Lewis et al., 2010) and Priest River Complex (Lewis et al., 2010), Belt Supergroup. D) and E) Combined Maurice Mtn. Formation and Black Lion Conglomerate from Link et al. (2016). F) Our combined data from the two Pennsylvanian Quadrant Formation samples. G), H) Combined passive margin units from Southern British Columbia and Nevada-Utah (Gehrels and Pecha, 2014). I) Morrison Formation, Montana, Laskowski et al. (2013). J), K), L) Kootenai, Blackleaf, Frontier formations in Montana of both our unpublished data and that from Laskowski et al.

(2013)

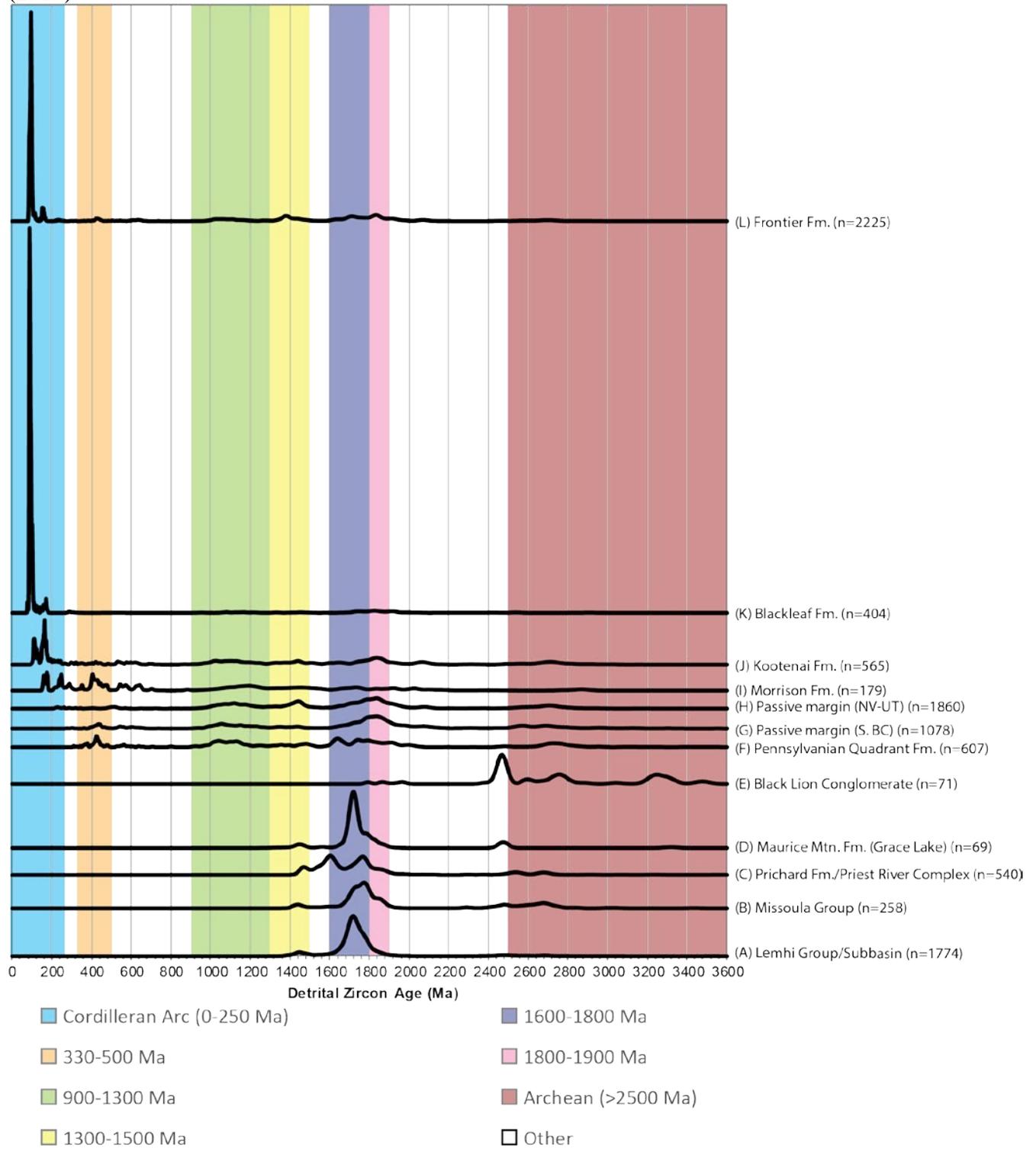
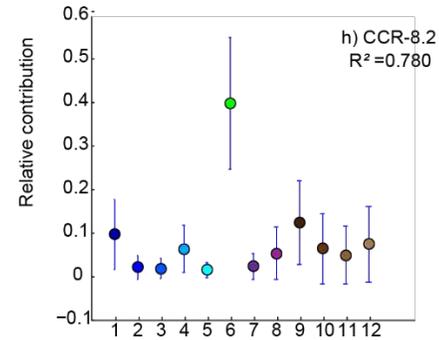
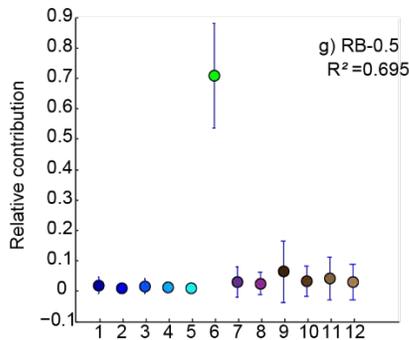
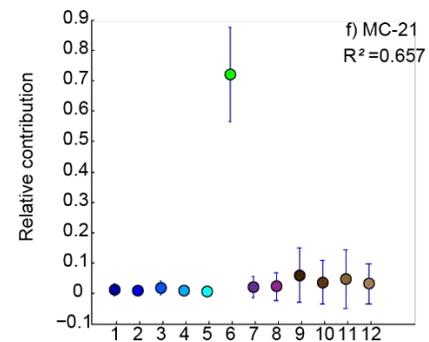
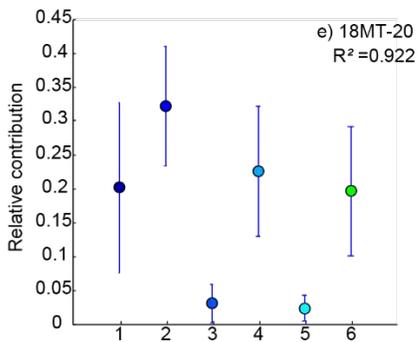
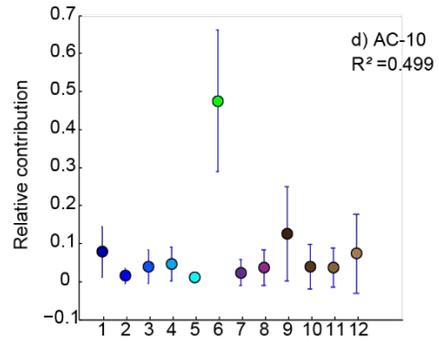
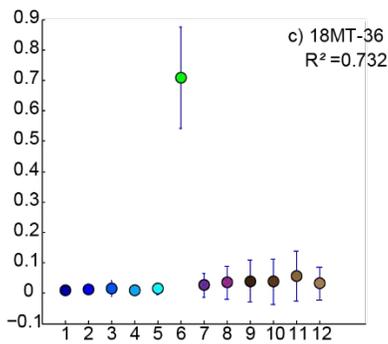
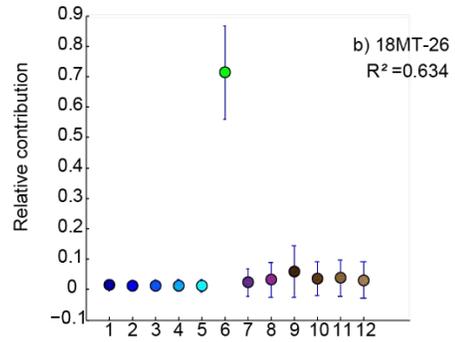
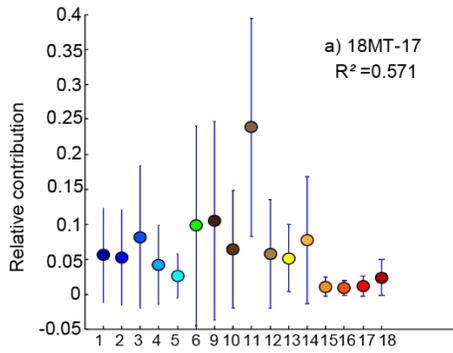


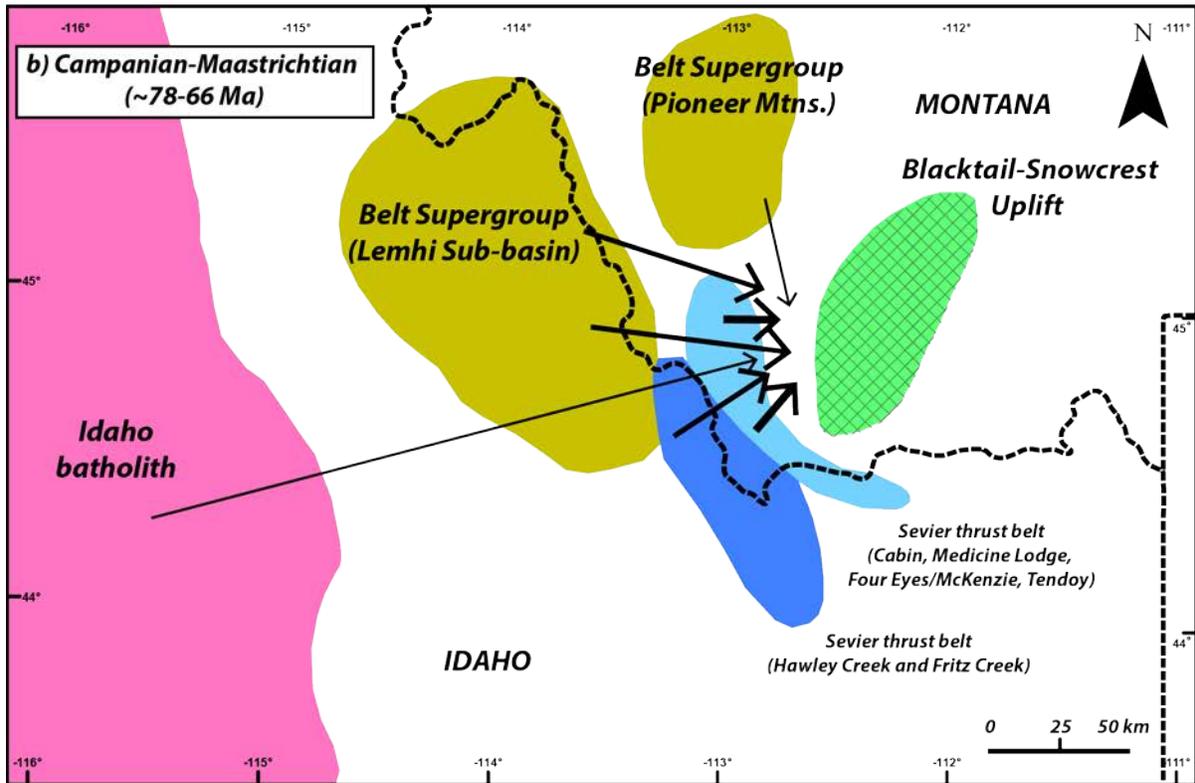
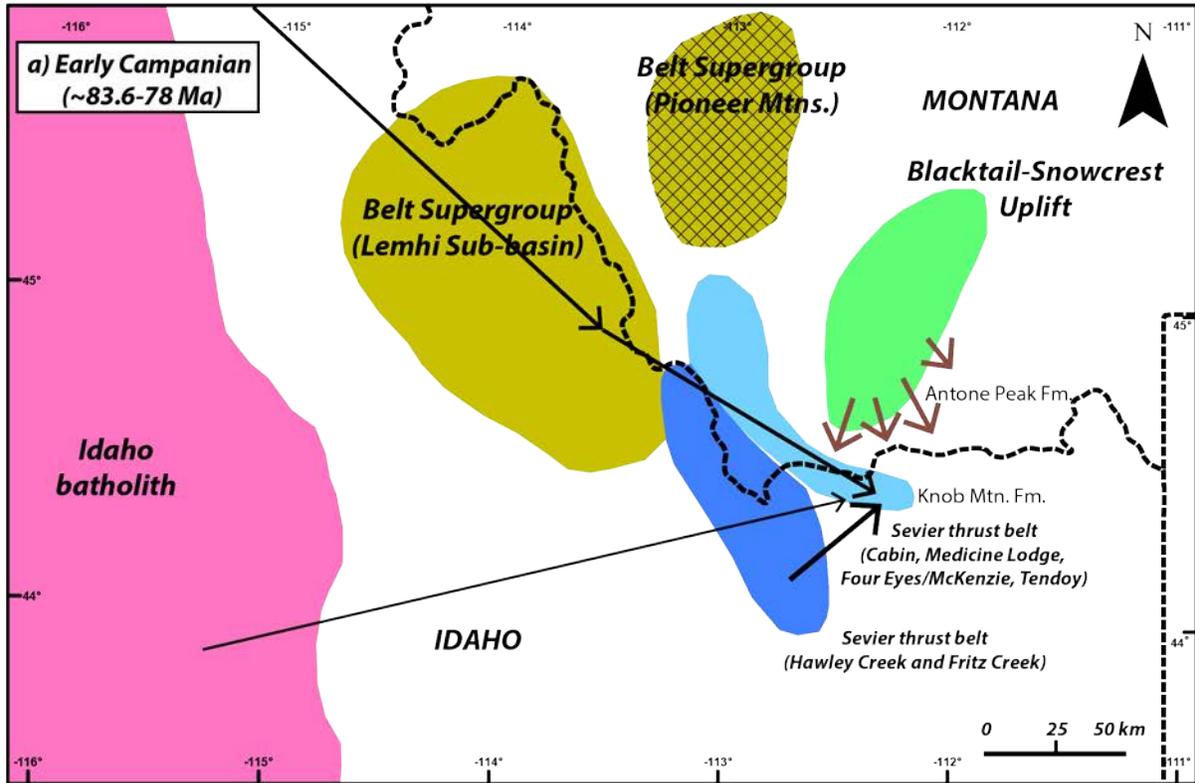
Figure 10: Plots of relative contributions of each potential sediment source (from Figure 9) for the Beaverhead Group generated using the DZ Mix modeling program (Sundell and Saylor, 2017). a) Limestone conglomerate from the Knob Mountain Formation. b) Monida sandstone, informal part of the Antone Peak Formation. c) Lima Conglomerate of the Antone Peak Formation. d) Limestone conglomerate of Ashbough Canyon. e) Quartzite conglomerate of

Ashbough Canyon. f) Upper limestone conglomerate of McKnight Canyon. g) Red Butte Conglomerate. h) Undivided conglomerate just north of Clark Canyon Reservoir.



- 1. Lemhi Group/subbasin
- 2. Missoula Group
- 3. Prichard Fm./Priest River Complex
- 4. Maurice Mtn. Fm. (Grace Lake)
- 5. Black Lion Conglomerate
- 6. Pennsylvanian Quadrant Fm.
- 7. Passive margin (S. British Columbia)
- 8. Passive margin (NV-UT)
- 9. Morrison Fm.
- 10. Kootenai Fm.
- 11. Blackleaf Fm.
- 12. Frontier Fm.
- 13. Border Zone Suite
- 14. Early Metaluminous Suite (EMS)
- 15. Atlanta Peraluminous Suite (APS)
- 16. Late Metaluminous Suite
- 17. Bitterroot Peraluminous Suite
- 18. Transitional EMS-APS Suite

Figure 11: Schematic sediment dispersal diagrams for the Beaverhead Group during a) Early Campanian and b) Campanian-Maastrichtian time. The cross-hatch pattern indicates that a source area was not active during the given time frame. Arrows indicate generalized sediment transport. Thicker arrows indicate higher sediment contributions and grade into smaller arrows/contributions.



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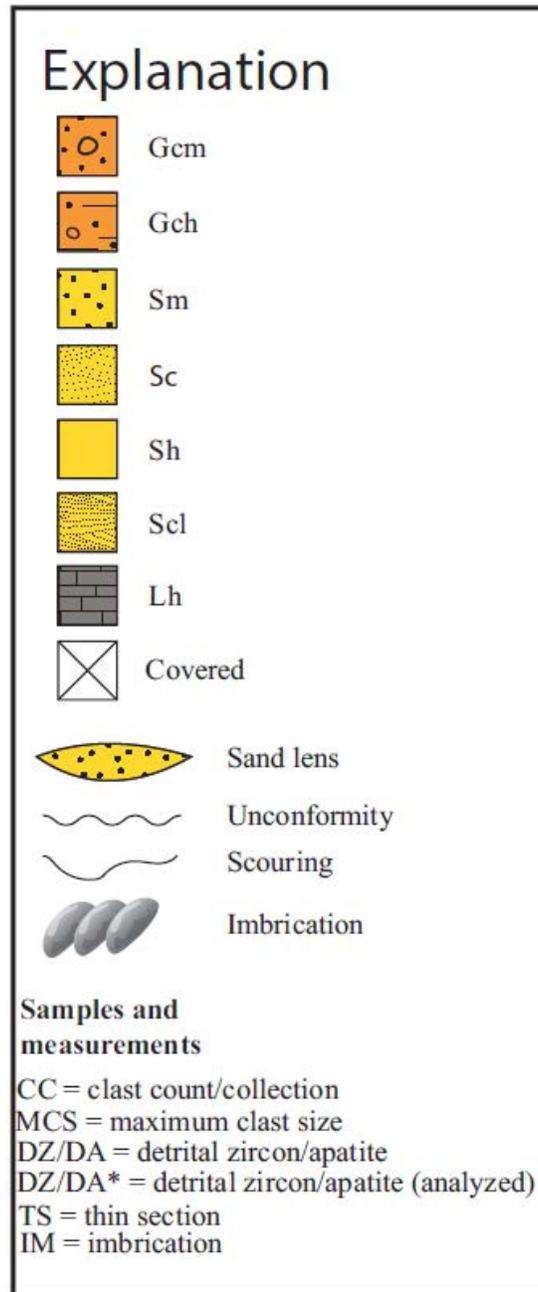
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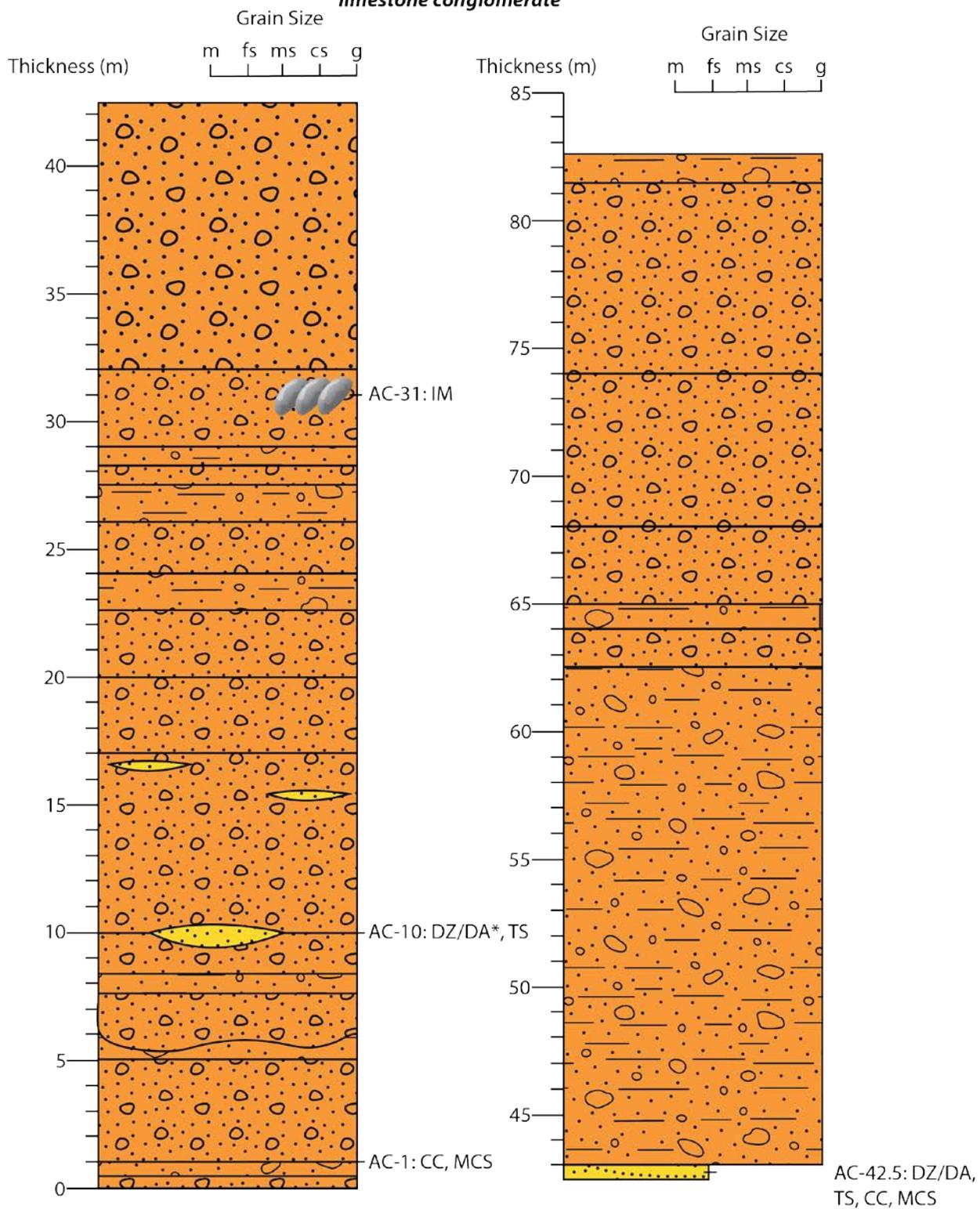
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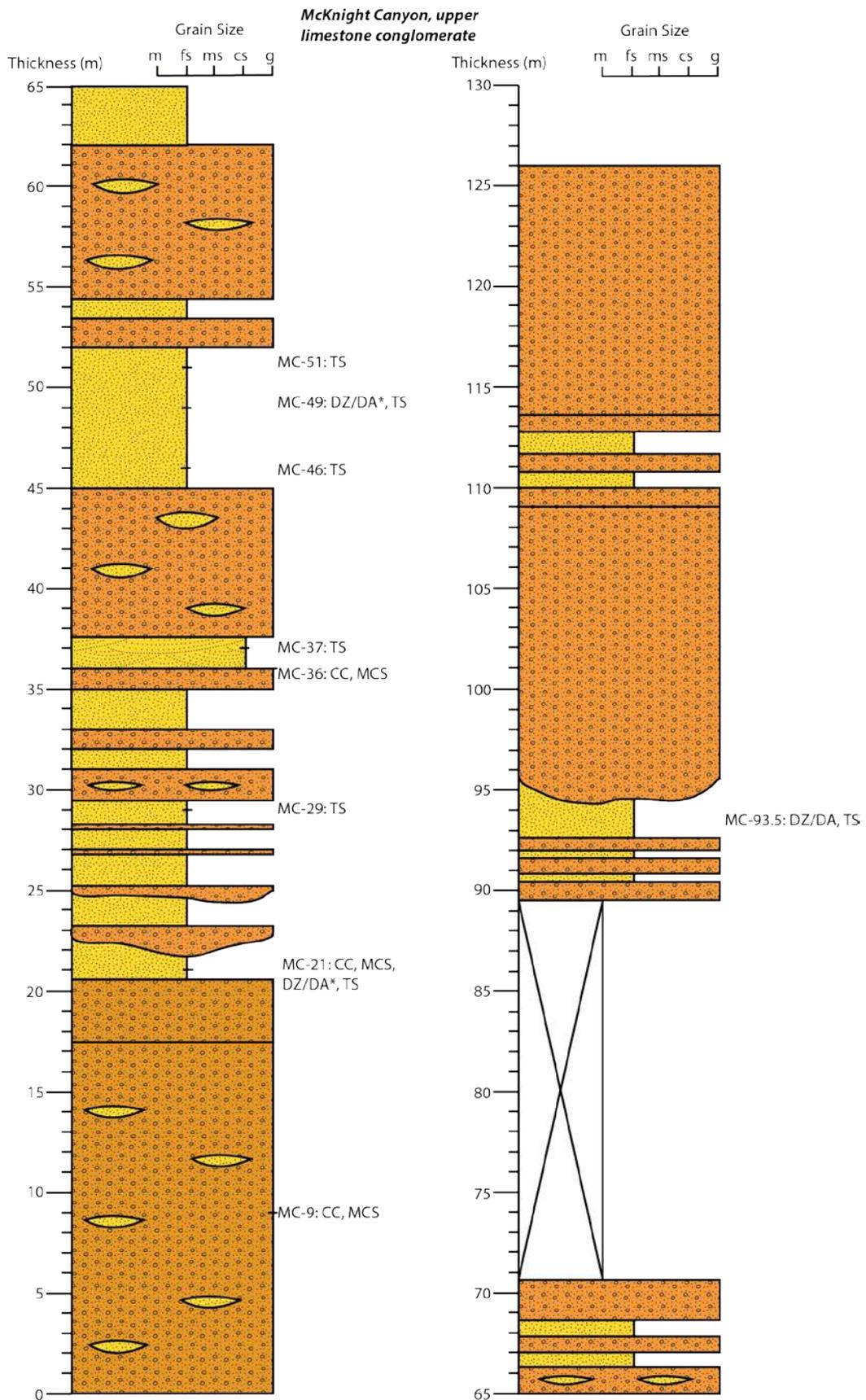
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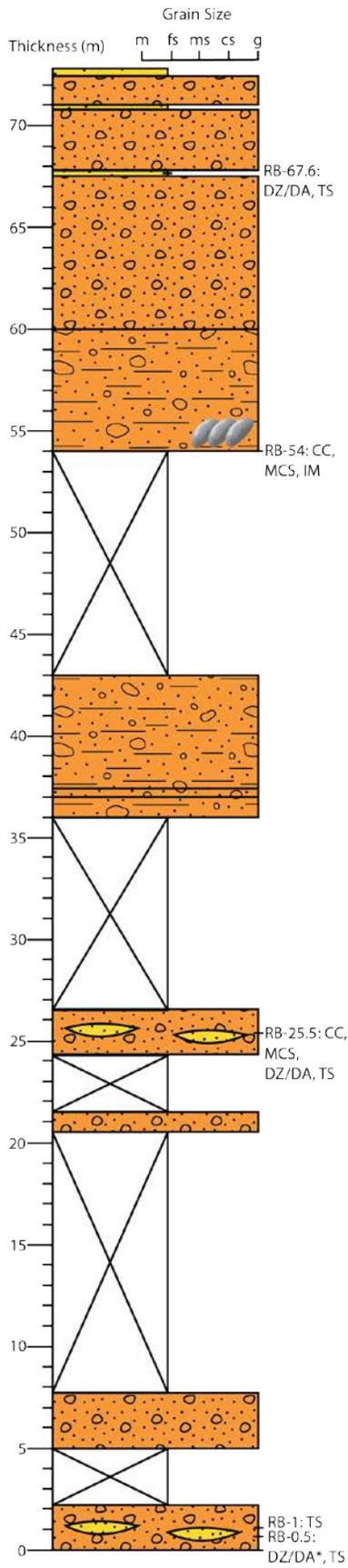
APPENDIX A: BEAVERHEAD GROUP MEASURED STRATIGRAPHIC SECTIONS



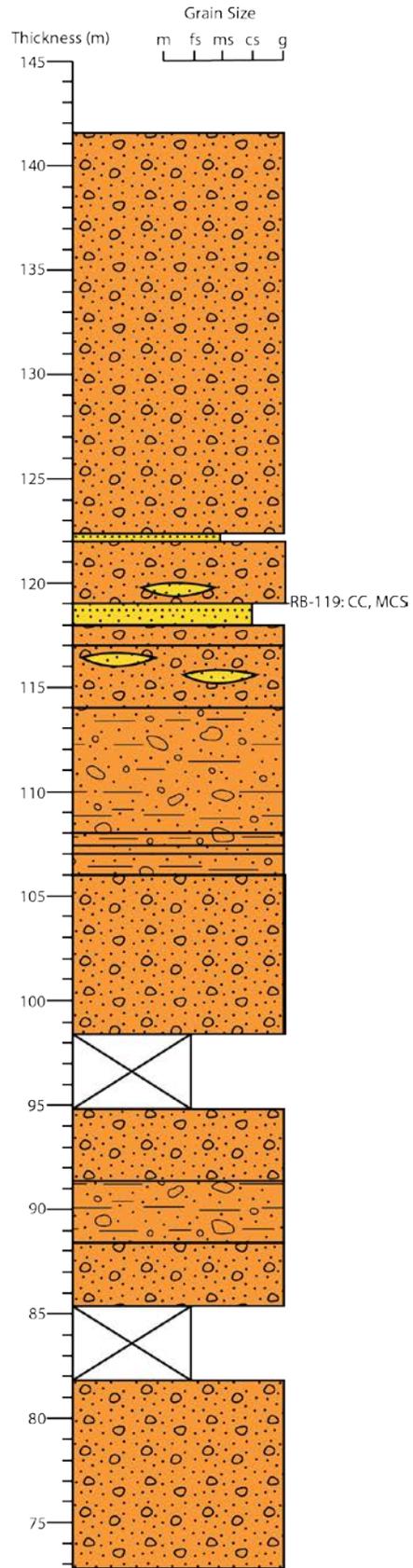
**Ashbough Canyon,
limestone conglomerate**

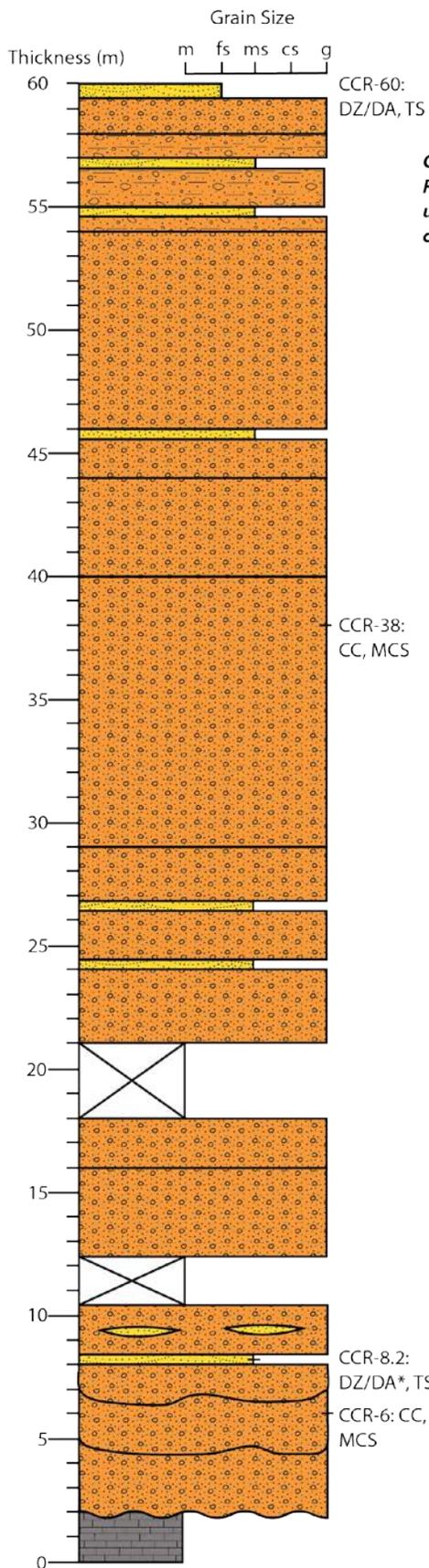




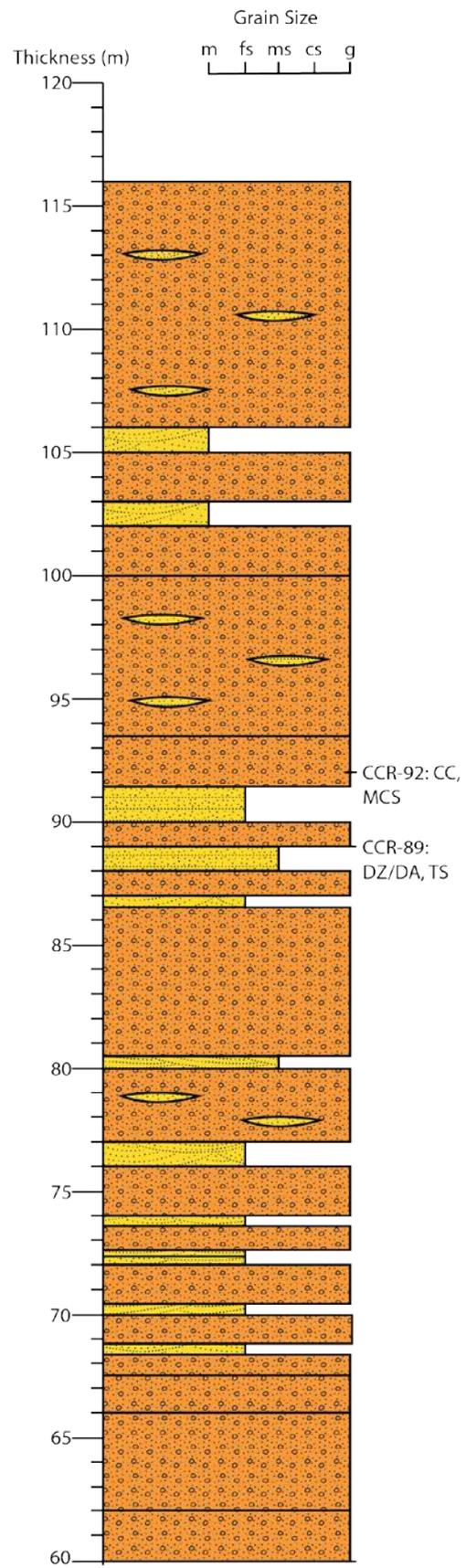


**Red Butte
Conglomerate**





Clark Canyon Reservoir, undivided conglomerate



APPENDIX B: LITHOFACIES SUMMARY FOR THE BEAVERHEAD GROUP

Facies Code	Depositional processes	Depositional Interpretation	Photos
Gcm Massive, clast-supported conglomerate	Cobble-boulder clasts require high energy (e.g. flood, debris flow,) scouring and imbrication imply flowing water	Alluvial fan or braided stream	
Gch Horizontally bedded, clast-supported conglomerate	Cobble-boulder clasts require high energy (e.g. flood, debris flow,) scouring and imbrication imply flowing water	Alluvial fan or braided stream	
Sc Cross-bedded sandstone	Interbedded with Gcm/Gch or present as lenses. Cross beds imply flowing water to areas of lower energy.	Distal alluvial fan or fluvial	
Sm Massive sandstone	Interbedded with Gcm/Gch or present as lenses. Implies high sand input.	Distal alluvial fan or fluvial	
Sh Horizontally bedded sandstone	Interbedded with Gcm/Gch or present as lenses. Bedding implies high water flow.	Distal alluvial fan or fluvial	
Scl Cross-laminated sandstone	Interbedded with Gcm/Gch or present as lenses. Cross laminae imply flowing water to areas of lower energy.	Distal alluvial fan or fluvial	
Lh Horizontally bedded limestone			

APPENDIX C: U-Pb DETRITAL ZIRCON LA-ICPMS DATA

18MT-17 (Knob Mountain Fm.) U-Pb geochronologic analyses.																			
Analysis	U (ppm)	206Pb/204Pb	U/Th	206Pb*/207Pb*	± (%)	Isotope ratios				Apparent ages (Ma)							Best age (Ma)	± (Ma)	Conc (%)
						207Pb*/235U*	± (%)	206Pb*/238U	± (%)	error corr.	206Pb*/238U*	± (Ma)	207Pb*/235U	± (Ma)	206Pb*/207Pb*	± (Ma)			
-18MT-17 Spot 40	1154	76270	3.0	20.4714	0.8	0.0873	1.1	0.0130	0.7	0.65	83.1	0.6	85.0	0.9	139.5	19.5	83.1	0.6	NA
-18MT-17 Spot 130	829	21050	1.1	18.6436	2.3	0.0974	2.4	0.0132	0.9	0.36	84.4	0.7	94.4	2.2	354.9	51.6	84.4	0.7	NA
-18MT-17 Spot 1	87	2003	1.3	24.1991	3.9	0.0761	4.1	0.0134	1.2	0.30	85.6	1.0	74.5	3.0	NA	NA	85.6	1.0	NA
-18MT-17 Spot 73	148	5495	1.5	21.2162	3.4	0.0870	4.0	0.0134	2.1	0.52	85.7	1.8	84.7	3.3	54.9	81.8	85.7	1.8	NA
-18MT-17 Spot 285	196	11524	3.5	18.1003	1.8	0.1024	2.0	0.0134	1.0	0.49	86.1	0.8	99.0	1.9	421.3	39.2	86.1	0.8	NA
-18MT-17 Spot 270	852	23752	1.3	20.8583	0.9	0.0891	1.3	0.0135	0.9	0.70	86.3	0.8	86.6	1.1	95.4	22.1	86.3	0.8	NA
-18MT-17 Spot 190	250	58674	1.6	20.4401	1.4	0.0911	1.8	0.0135	1.1	0.62	86.5	1.0	88.5	1.5	143.1	33.5	86.5	1.0	NA
-18MT-17 Spot 64	348	41665	3.5	19.8432	2.8	0.0942	2.9	0.0136	0.7	0.25	86.9	0.6	91.5	2.6	212.2	65.8	86.9	0.6	NA
-18MT-17 Spot 179	974	46711	3.4	20.8155	1.1	0.0901	1.3	0.0136	0.8	0.59	87.1	0.7	87.6	1.1	100.3	25.4	87.1	0.7	NA
-18MT-17 Spot 257	604	23603	23.3	21.0893	0.9	0.0891	1.4	0.0136	1.0	0.73	87.2	0.9	86.7	1.1	71.5	22.5	87.2	0.9	NA
-18MT-17 Spot 150	451	7761	7.4	21.0445	1.5	0.0892	2.0	0.0136	1.2	0.61	87.2	1.0	86.8	1.6	74.3	36.7	87.2	1.0	NA
-18MT-17 Spot 280	1615	90164	4.2	21.0488	0.6	0.0893	1.1	0.0136	0.8	0.80	87.3	0.7	86.8	0.9	73.8	15.0	87.3	0.7	NA
-18MT-17 Spot 198	310	13842	1.6	20.7438	1.4	0.0907	1.7	0.0137	1.0	0.57	87.5	0.8	88.2	1.4	108.4	32.5	87.5	0.8	NA
-18MT-17 Spot 38	112	7328	1.3	15.6011	4.6	0.1207	4.7	0.0137	1.1	0.23	87.5	0.9	115.7	5.1	743.9	96.3	87.5	0.9	NA
-18MT-17 Spot 51	340	62380	1.4	20.6039	1.7	0.0915	2.0	0.0137	1.1	0.56	87.6	1.0	88.9	1.7	124.4	39.0	87.6	1.0	NA
-18MT-17 Spot 298	206	14837	2.3	21.5013	1.9	0.0877	2.1	0.0137	0.9	0.43	87.6	0.8	85.4	1.7	23.0	45.9	87.6	0.8	NA
-18MT-17 Spot 13	367	8145	3.8	21.2131	1.5	0.0891	1.9	0.0137	1.1	0.58	87.8	1.0	86.7	1.6	55.3	36.6	87.8	1.0	NA
-18MT-17 Spot 294	497	17042	1.3	20.9624	1.2	0.0902	1.5	0.0137	0.8	0.55	87.8	0.7	87.7	1.2	83.6	29.6	87.8	0.7	NA
-18MT-17 Spot 140	478	5817	3.2	21.3666	1.2	0.0896	1.5	0.0139	1.0	0.63	88.9	0.8	87.1	1.3	39.2	28.2	88.9	0.8	NA
-18MT-17 Spot 75	198	91300	2.1	19.4519	2.7	0.0985	2.9	0.0139	1.0	0.35	89.0	0.9	95.3	2.6	258.2	62.5	89.0	0.9	NA
-18MT-17 Spot 135	691	118309	2.4	20.6465	1.3	0.0934	1.6	0.0140	0.9	0.56	89.6	0.8	90.6	1.4	119.5	30.4	89.6	0.8	NA
-18MT-17 Spot 299	327	14152	1.6	20.2414	1.6	0.0959	1.9	0.0141	1.0	0.52	90.2	0.9	93.0	1.7	166.0	37.2	90.2	0.9	NA
-18MT-17 Spot 23	372	14893	2.3	19.7805	1.2	0.0982	1.8	0.0141	1.0	0.67	90.2	0.9	85.1	1.4	219.8	27.1	90.2	0.9	NA
-18MT-17 Spot 234	197	16870	7.1	20.1498	1.9	0.0965	2.4	0.0141	1.3	0.57	90.3	1.2	93.5	2.1	176.6	45.4	90.3	1.2	NA
-18MT-17 Spot 133	65	2577	1.5	24.0491	5.8	0.0808	6.0	0.0141	1.4	0.24	90.3	1.3	78.9	4.5	NA	NA	90.3	1.3	NA
-18MT-17 Spot 83	763	6077	1.8	19.7163	1.6	0.0995	1.8	0.0142	0.8	0.48	91.1	0.8	96.3	1.6	227.1	36.0	91.1	0.8	NA
-18MT-17 Spot 89	318	11447	2.4	20.8396	1.6	0.0949	2.1	0.0143	1.4	0.65	91.8	1.2	92.0	1.8	97.6	37.8	91.8	1.2	NA
-18MT-17 Spot 278	1604	66175	3.8	20.6417	0.7	0.0959	1.0	0.0144	0.8	0.76	91.9	0.7	93.0	0.9	120.1	15.7	91.9	0.7	NA
-18MT-17 Spot 166	769	17650	1.8	20.8230	0.9	0.0957	1.4	0.0145	1.1	0.79	92.5	1.0	92.8	1.2	99.4	20.5	92.5	1.0	NA
-18MT-17 Spot 114	356	8146	2.6	20.9723	1.5	0.0954	1.8	0.0145	1.0	0.53	92.9	0.9	92.5	1.6	82.5	36.5	92.9	0.9	NA
-18MT-17 Spot 155	842	65355	1.8	20.8850	0.8	0.0985	1.2	0.0146	0.9	0.74	93.6	0.8	93.5	1.1	92.4	18.8	93.6	0.8	NA
-18MT-17 Spot 67	498	15797	2.1	20.9869	1.4	0.0969	1.8	0.0148	1.2	0.67	94.5	1.2	93.9	1.7	80.8	32.5	94.5	1.2	NA
-18MT-17 Spot 204	621	18929	6.6	20.5501	1.3	0.0991	1.7	0.0148	1.1	0.63	94.5	1.0	95.9	1.5	130.5	30.6	94.5	1.0	NA
-18MT-17 Spot 119	1120	30002	3.5	20.8271	0.8	0.0981	1.2	0.0148	0.8	0.70	94.9	0.8	95.0	1.0	99.0	19.7	94.9	0.8	NA
-18MT-17 Spot 72	519	41559	1.8	20.9163	0.8	0.0982	1.3	0.0149	1.1	0.80	95.3	1.0	95.1	1.2	88.8	18.6	95.3	1.0	NA
-18MT-17 Spot 157	544	17237	10.6	20.6267	1.1	0.1003	1.4	0.0150	0.9	0.63	96.0	0.8	97.0	1.3	121.8	25.0	96.0	0.8	NA
-18MT-17 Spot 287	478	25906	3.1	20.8841	1.2	0.0997	1.7	0.0151	1.3	0.72	96.6	1.2	96.5	1.6	94.8	28.6	96.6	1.2	NA
-18MT-17 Spot 60	686	34383	2.2	20.2037	0.8	0.1048	1.2	0.0154	0.9	0.74	98.3	0.9	101.2	1.2	170.3	19.4	98.3	0.9	NA
-18MT-17 Spot 42	899	174933	2.6	20.7597	1.0	0.1032	1.2	0.0155	0.7	0.57	99.4	0.7	99.7	1.1	106.6	22.7	99.4	0.7	NA
-18MT-17 Spot 203	544	13509	7.9	20.8815	1.7	0.1026	2.0	0.0156	1.0	0.49	99.5	0.9	99.2	1.9	92.8	40.6	99.5	0.9	NA
-18MT-17 Spot 165	327	14500	2.4	20.6295	1.6	0.1047	1.9	0.0157	1.1	0.58	100.2	1.1	101.1	1.9	121.5	37.4	100.2	1.1	NA
-18MT-17 Spot 146	889	34059	5.5	20.9317	0.8	0.1035	1.4	0.0157	1.1	0.79	100.5	1.1	100.0	1.3	87.1	19.8	100.5	1.1	NA
-18MT-17 Spot 74	990	26966	9.0	21.1521	1.0	0.1024	1.5	0.0157	1.2	0.76	100.5	1.2	99.0	1.4	62.2	23.4	100.5	1.2	NA
-18MT-17 Spot 7	231	14330	5.1	20.7898	1.6	0.1065	2.0	0.0161	1.1	0.57	102.7	1.1	102.7	1.9	103.2	38.6	102.7	1.1	NA
-18MT-17 Spot 93	850	119999	1.7	20.4368	0.9	0.1098	1.3	0.0163	0.9	0.70	104.1	0.9	105.8	1.3	143.5	21.1	104.1	0.9	NA
-18MT-17 Spot 274	106	9136	2.4	19.6848	1.9	0.1175	2.3	0.0168	1.3	0.58	107.2	1.4	112.8	2.5	233.2	43.4	107.2	1.4	NA
-18MT-17 Spot 104	276	51240	1.7	19.6933	1.9	0.1262	2.3	0.0180	1.3	0.55	115.2	1.4	120.7	2.6	229.8	43.9	115.2	1.4	NA
-18MT-17 Spot 253	63	4723	2.2	21.2085	2.9	0.1184	3.1	0.0182	1.0	0.33	116.4	1.2	113.6	3.3	55.8	69.8	116.4	1.2	NA
-18MT-17 Spot 262	1417	93872	13.6	16.4133	2.1	0.1725	2.3	0.0205	0.9	0.37	131.1	1.1	161.6	3.4	635.7	45.7	131.1	1.1	NA
-18MT-17 Spot 16	203	21267	4.5	20.3197	1.5	0.1465	1.9	0.0220	1.1	0.57	140.5	1.5	141.5	2.5	157.0	36.2	140.5	1.5	NA
-18MT-17 Spot 120	509	26922	23.2	13.7704	4.3	0.2318	5.2	0.0232	2.8	0.54	147.6	4.1	211.7	9.9	1002.5	88.2	147.6	4.1	NA
-18MT-17 Spot 271	152	6183	5.2	15.7588	4.0	0.2071	6.0	0.0237	4.5	0.75	150.9	6.7	191.2	10.4	722.6	84.5	150.9	6.7	NA
-18MT-17 Spot 29	1400	220476	30.4	14.7730	1.1	0.2452	3.1	0.0263	2.9	0.94	167.2	4.8	222.7	6.2	858.2	21.9	167.2	4.8	NA
-18MT-17 Spot 215	129	13737	1.3	19.5424	1.3	0.2765	1.7	0.0392	1.0	0.61	247.9	2.5	247.8	3.7	247.5	31.1	247.9	2.5	NA
-18MT-17 Spot 167	572	31316	1.3	18.5673	1.3	0.2929	1.6	0.0395	1.0	0.62	249.4	2.4	260.8	3.7	364.1	28.6	249.4	2.4	NA
-18MT-17 Spot 227	349	97950	2.1	19.3720	0.7	0.2858	1.2	0.0402	0.9	0.79	253.9	2.4	255.3	2.7	267.6	16.5	253.9	2.4	NA
-18MT-17 Spot 194	210	20230	2.4	19.1734	1.1	0.3094	1.6	0.0429	1.1	0.88	270.8	2.8	273.0	3.7	291.3	26.0	270.8	2.8	NA
-18MT-17 Spot 197	282	105244	1.1	19.0235	1.1	0.3642	1.7	0.0503	1.3	0.75	316.2	4.0	315.3	4.7	309.1	25.8	316.2	4.0	NA
-18MT-17 Spot 6	618	34727	4.6	17.3816	0.8	0.4500	1.1	0.0568	0.8	0.71	355.9	2.6	377.3	3.4	511.0	16.7	355.9	2.6	NA
-18MT-17 Spot 228	282	16024	4.6	16.8729	1.0	0.4638	3.3	0.0568	3.2	0.96	356.0	11.1	386.9	10.7	576.0	20.8	356.0	11.1	NA
-18MT-17 Spot 96	362	151055	2.2	10.7806	5.8	0.7746	6.0	0.0606	1.8	0.29	379.2	6.5	582.4	26.8	1482.1	109.6	379.2	6.5	NA
-18MT-17 Spot 241	254	2570243	0.9	17.3754	1.0	0.5097	1.3	0.0643	0.8	0.64	401.5	3.1	418.3	4.3	511.8	21.4	401.5	3.1	78.4
-18MT-17 Spot 113	280	41560	2.2	18.3165	0.8	0.5046	1.1	0.0671	0.8	0.72	418.4	3.3	414.8	3.9					

-18MT-17 Spot 4	99	46927	2.6	16.1501	0.9	0.9016	1.4	0.1056	1.1	0.76	647.4	6.5	652.6	6.7	670.4	10.3	647.4	6.5	96.6
-18MT-17 Spot 61	195	94386	2.2	16.2515	0.8	0.9018	1.4	0.1063	1.1	0.81	651.4	6.8	652.7	6.8	657.0	17.4	651.4	6.8	99.2
-18MT-17 Spot 156	299	93993	2.6	15.5170	1.0	1.0488	1.5	0.1181	1.1	0.75	719.5	7.8	728.3	7.9	755.3	21.2	719.5	7.8	95.3
-18MT-17 Spot 212	524	168225	1.6	14.0655	0.5	1.4955	1.0	0.1525	0.9	0.89	915.1	8.0	926.6	8.4	960.8	9.7	960.8	9.7	95.2
-18MT-17 Spot 229	323	631644	1.1	14.0238	0.7	1.5818	1.3	0.1610	1.1	0.85	962.1	9.9	963.1	8.0	965.4	13.3	965.4	13.3	99.7
-18MT-17 Spot 221	69	25664	2.2	13.9730	0.8	1.6172	1.3	0.1640	1.1	0.80	978.7	9.5	976.9	8.2	972.8	16.1	972.8	16.1	100.6
-18MT-17 Spot 153	39	11351	2.9	13.8856	0.8	1.7257	1.2	0.1739	1.0	0.79	1033.4	9.4	1018.2	8.0	985.5	15.3	985.5	15.3	104.9
-18MT-17 Spot 303	134	84417	1.0	13.6796	0.6	1.6935	1.0	0.1706	0.7	0.74	1015.1	6.7	1006.1	6.1	986.4	13.1	986.4	13.1	102.9
-18MT-17 Spot 314	203	1140567	2.5	13.7265	0.6	1.6791	1.0	0.1672	0.8	0.78	996.9	7.1	1000.6	6.3	1008.9	12.5	1008.9	12.5	98.8
-18MT-17 Spot 131	379	98244	2.2	13.7062	0.5	1.7478	0.9	0.1738	0.8	0.84	1033.1	7.5	1026.3	6.0	1011.9	10.4	1011.9	10.4	102.1
-18MT-17 Spot 249	81	134642	1.9	13.7001	1.1	1.5519	1.4	0.1543	0.9	0.65	924.9	7.8	951.3	8.7	1012.8	21.8	1012.8	21.8	91.3
-18MT-17 Spot 184	168	44434	1.6	13.5300	0.6	1.7307	1.1	0.1699	0.9	0.84	1011.6	8.3	1020.0	6.8	1038.1	11.6	1038.1	11.6	97.4
-18MT-17 Spot 188	172	91030	3.5	13.5251	0.6	1.8136	1.1	0.1780	1.0	0.84	1055.9	9.4	1050.4	7.5	1038.8	12.5	1038.8	12.5	101.6
-18MT-17 Spot 202	234	59574	3.5	13.4408	0.7	1.7199	1.2	0.1677	0.9	0.80	999.6	8.6	1016.0	7.5	1051.5	14.0	1051.5	14.0	95.1
-18MT-17 Spot 312	337	101085	5.3	13.4288	0.8	1.7802	1.2	0.1735	1.1	0.86	1031.2	10.0	1038.3	8.0	1053.3	12.6	1053.3	12.6	97.9
-18MT-17 Spot 187	289	474821	2.2	13.4040	0.7	1.8501	1.2	0.1799	1.0	0.82	1068.6	9.6	1063.4	7.8	1057.0	13.8	1057.0	13.8	100.9
-18MT-17 Spot 283	141	43693	0.9	13.3685	0.7	1.8446	1.0	0.1789	0.8	0.74	1061.1	7.5	1061.5	6.8	1062.4	14.1	1062.4	14.1	99.9
-18MT-17 Spot 216	318	3546119	22.2	13.3057	0.5	1.7411	1.0	0.1681	0.9	0.87	1001.6	8.5	1023.9	6.8	1071.8	10.3	1071.8	10.3	83.4
-18MT-17 Spot 92	275	106887	1.9	13.2764	0.6	1.8545	1.2	0.1786	1.0	0.88	1058.6	10.2	1065.0	7.8	1076.2	11.2	1076.2	11.2	98.5
-18MT-17 Spot 69	159	111988	2.2	13.2312	0.6	1.9407	1.2	0.1863	1.0	0.83	1101.4	9.7	1085.2	7.7	1083.1	13.0	1083.1	13.0	101.7
-18MT-17 Spot 292	204	236310	1.4	13.2029	0.6	1.8796	1.1	0.1801	0.9	0.80	1067.3	8.4	1073.9	7.1	1087.4	12.8	1087.4	12.8	98.2
-18MT-17 Spot 264	70	78131	1.8	13.0490	0.7	1.9377	1.1	0.1835	0.9	0.80	1085.9	9.0	1094.2	7.5	1110.8	13.5	1110.8	13.5	97.8
-18MT-17 Spot 174	585	94073	2.3	13.0051	0.5	2.0407	0.9	0.1926	0.8	0.85	1135.2	8.4	1129.2	6.4	1117.6	9.4	1117.6	9.4	101.6
-18MT-17 Spot 296	296	933587	2.5	12.9439	0.6	2.0791	1.1	0.1953	1.0	0.85	1149.8	10.1	1141.9	7.7	1126.9	11.7	1126.9	11.7	102.0
-18MT-17 Spot 263	384	106829	1.6	12.9158	0.6	2.0332	1.0	0.1905	0.8	0.80	1124.3	8.4	1126.7	7.0	1131.3	12.3	1131.3	12.3	99.4
-18MT-17 Spot 87	846	4435216	4.3	12.8471	0.5	1.9492	1.1	0.1817	1.0	0.88	1078.2	9.5	1088.2	7.4	1141.9	10.5	1141.9	10.5	94.3
-18MT-17 Spot 56	399	107793	6.5	12.8435	0.5	2.0377	1.0	0.1899	0.8	0.84	1120.8	8.5	1128.2	6.7	1142.4	10.6	1142.4	10.6	98.1
-18MT-17 Spot 126	83	201665	2.7	12.8331	0.7	2.0872	1.2	0.1925	0.9	0.80	1134.9	9.8	1138.0	8.1	1144.1	14.2	1144.1	14.2	99.2
-18MT-17 Spot 222	109	255433	2.5	12.8077	0.6	2.0839	1.0	0.1937	0.7	0.76	1141.1	7.8	1143.5	6.7	1148.0	12.5	1148.0	12.5	96.4
-18MT-17 Spot 302	102	478087	2.5	12.7830	0.7	2.0484	1.1	0.1895	0.8	0.76	1118.7	8.2	1131.1	7.2	1154.9	13.6	1154.9	13.6	96.9
-18MT-17 Spot 109	131	53878	1.9	12.7505	0.7	2.1056	1.2	0.1948	1.0	0.79	1147.3	10.2	1150.6	8.5	1156.9	14.9	1156.9	14.9	99.2
-18MT-17 Spot 295	442	820377	3.7	12.6811	0.5	2.0476	1.1	0.1884	1.0	0.89	1112.7	9.9	1131.5	7.5	1167.0	10.1	1167.0	10.1	85.3
-18MT-17 Spot 251	92	158106	2.4	12.5160	0.8	2.1580	1.3	0.1960	1.1	0.81	1153.6	11.5	1167.6	9.3	1193.6	15.4	1193.6	15.4	98.7
-18MT-17 Spot 94	218	87342	2.5	12.3215	0.5	2.3048	1.0	0.2061	0.8	0.84	1207.8	9.1	1213.8	7.0	1224.4	10.6	1224.4	10.6	98.6
-18MT-17 Spot 239	301	68040	4.3	12.0229	0.7	2.3107	1.3	0.2016	1.2	0.87	1183.8	12.6	1215.6	9.5	1272.4	12.8	1272.4	12.8	93.0
-18MT-17 Spot 116	581	1011513	4.1	11.9458	0.6	1.2379	1.7	0.1073	1.6	0.94	657.0	10.1	817.9	9.7	1285.0	11.7	1285.0	11.7	51.1
-18MT-17 Spot 145	560	185769	3.2	11.7852	0.5	2.3116	1.1	0.1977	0.9	0.89	1162.8	10.0	1215.8	7.5	1311.3	9.2	1311.3	9.2	88.7
-18MT-17 Spot 62	2121	537590	22.6	11.6022	0.7	1.1754	1.1	0.0990	0.9	0.81	608.3	5.2	789.2	6.1	1341.6	12.6	1341.6	12.6	45.3
-18MT-17 Spot 175	62	490968	1.1	11.5466	0.6	2.8936	1.2	0.2424	1.0	0.85	1399.3	13.0	1380.3	9.2	1350.9	12.4	1350.9	12.4	103.6
-18MT-17 Spot 168	274	165917	6.0	11.5299	0.5	2.7894	1.4	0.2334	1.3	0.92	1352.1	15.3	1352.7	10.2	1353.7	10.3	1353.7	10.3	99.9
-18MT-17 Spot 8	246	2910273	2.8	11.5263	0.6	2.4611	1.0	0.2058	0.8	0.78	1206.6	8.6	1260.7	7.2	1354.3	12.0	1354.3	12.0	89.1
-18MT-17 Spot 236	423	740781	4.3	11.5192	0.5	2.8165	1.0	0.2354	0.9	0.88	1362.8	11.4	1359.9	7.9	1355.5	9.5	1355.5	9.5	100.5
-18MT-17 Spot 193	512	461518	6.8	11.5077	0.4	2.7679	1.0	0.2311	0.9	0.90	1340.3	11.1	1346.9	7.6	1357.4	8.4	1357.4	8.4	98.7
-18MT-17 Spot 70	228	113781	1.0	11.4944	0.8	2.8818	1.0	0.2220	0.8	0.83	1292.4	9.7	1317.9	7.4	1359.6	10.8	1359.6	10.8	95.1
-18MT-17 Spot 172	430	299972	3.8	11.4894	0.5	2.7389	1.3	0.2284	1.2	0.93	1328.2	14.2	1339.3	9.5	1360.5	9.0	1360.5	9.0	97.5
-18MT-17 Spot 143	309	327730	2.2	11.4853	0.5	2.7793	1.0	0.2316	0.9	0.89	1343.0	10.9	1350.0	7.6	1361.1	8.8	1361.1	8.8	88.7
-18MT-17 Spot 266	183	125890	1.1	11.4839	0.7	2.7806	1.1	0.2317	0.9	0.78	1343.4	10.5	1350.4	8.3	1361.4	13.3	1361.4	13.3	88.7
-18MT-17 Spot 265	244	114840	2.1	11.4809	0.6	2.8346	1.0	0.2361	0.8	0.81	1366.5	9.6	1364.7	7.2	1361.9	10.8	1361.9	10.8	100.3
-18MT-17 Spot 142	358	90085	4.8	11.4822	0.6	2.7595	1.0	0.2295	0.8	0.82	1331.9	9.9	1344.7	7.5	1365.0	11.0	1365.0	11.0	97.6
-18MT-17 Spot 52	492	241008	5.2	11.4550	0.5	2.8444	0.9	0.2364	0.8	0.83	1368.0	9.3	1367.3	6.8	1366.2	9.8	1366.2	9.8	100.1
-18MT-17 Spot 296	432	183008	5.8	11.4320	0.5	2.8769	1.2	0.2386	1.0	0.88	1379.6	12.8	1375.9	8.8	1370.1	10.5	1370.1	10.5	100.7
-18MT-17 Spot 128	303	80822	4.3	11.4294	0.5	2.9096	1.2	0.2330	1.0	0.90	1350.2	12.6	1358.1	8.6	1370.5	9.8	1370.5	9.8	95.5
-18MT-17 Spot 98	160	71900	1.5	11.4277	0.7	2.9691	1.3	0.2379	1.1	0.85	1375.7	13.6	1373.8	9.7	1370.8	13.2	1370.8	13.2	100.4
-18MT-17 Spot 309	445	130095	3.7	11.4260	0.6	2.8930	1.3	0.2398	1.1	0.88	1385.9	14.0	1380.1	9.6	1371.1	11.5	1371.1	11.5	101.1
-18MT-17 Spot 231	338	208129	5.7	11.4229	0.8	2.7135	1.1	0.2249	0.9	0.88	1307.7	11.2	1332.2	8.2	1371.6	10.9	1371.6	10.9	95.3
-18MT-17 Spot 121	376	98997	2.3	11.4114	0.7	2.8561	1.4	0.2365	1.1	0.84	1368.4	14.1	1370.4	10.2	1373.6	14.0	1373.6	14.0	99.6
-18MT-17 Spot 34	197	117017	4.1	11.4082	0.6	2.8320	1.3	0.2344	1.1	0.86	1357.6	13.3	1364.0	9.5	1374.1	12.5	1374.1	12.5	98.8
-18MT-17 Spot 242	70	92547	1.2	11.4079	0.8	2.8237	1.1	0.2337	0.9	0.82	1354.0	11.2	1361.9	8.4	1374.2	12.5	1374.2	12.5	95.5
-18MT-17 Spot 82	259	246756	1.4	11.4076	0.6	2.4385	1.4	0.2018	1.2	0.89	1185.2	13.2	1254.0	9.9	1374.2	11.9	1374.2	11.9	86.2
-18MT-17 Spot 248	215	172517	2.4	11.4058	0.7	2.9466	1.2	0.2356	1.0	0.83	1363.7	12.7	1367.9	9.3	1374.5	13.2	1374.5	13.2	99.2
-18MT-17 Spot 49	106	224784	0.8	11.4014	0.6	2.8367	1.0	0.2347	0.8	0.82	1358.9	10.3	1365.3	7.7	1375.2	11.4	1375.2	11.4	98.8
-18MT-17 Spot 22	113	48230	1.4	11.3974	0.8	2.5720													

-18MT-17 Spot 47	738	120590	8.5	11.2214	0.7	2.7489	1.3	0.2238	1.1	0.86	1302.0	13.2	1341.8	9.7	1405.8	12.5	1405.8	12.6	92.6
-18MT-17 Spot 27	409	764599	5.3	11.1889	0.7	2.9524	1.3	0.2397	1.0	0.81	1385.1	13.0	1385.5	9.7	1411.3	14.2	1411.3	14.2	98.1
-18MT-17 Spot 258	739	687823	0.6	11.1740	0.6	2.8741	1.2	0.2330	1.0	0.87	1350.3	12.4	1375.1	8.8	1413.9	11.0	1413.9	11.0	95.5
-18MT-17 Spot 269	770	1022714	0.8	11.1606	0.5	2.8774	1.2	0.2330	1.1	0.91	1350.3	13.8	1376.0	9.3	1416.2	9.8	1416.2	9.8	95.3
-18MT-17 Spot 230	993	453886	5.9	11.1348	0.7	2.8726	1.2	0.2321	0.9	0.80	1345.4	11.3	1374.7	8.8	1420.6	13.4	1420.6	13.4	94.7
-18MT-17 Spot 105	526	67560	1.2	11.1333	0.8	2.9159	1.1	0.2355	0.9	0.76	1363.5	10.7	1386.0	8.7	1420.9	14.4	1420.9	14.4	96.0
-18MT-17 Spot 255	150	102141	1.3	11.1169	0.5	2.9783	0.9	0.2402	0.7	0.81	1387.9	9.1	1402.1	6.8	1423.7	10.1	1423.7	10.1	97.5
-18MT-17 Spot 207	733	3248864	1.5	11.0703	0.6	2.9275	1.1	0.2351	1.0	0.87	1361.4	11.8	1389.0	8.4	1431.7	10.5	1431.7	10.5	95.1
-18MT-17 Spot 182	1062	483611	11.8	11.0292	0.6	2.7093	1.1	0.2168	0.9	0.84	1266.0	10.4	1331.0	8.0	1438.8	11.1	1438.8	11.1	87.9
-18MT-17 Spot 307	188	107859	1.3	11.0195	0.7	3.1866	1.2	0.2548	0.9	0.80	1463.1	12.2	1453.9	9.0	1440.5	13.4	1440.5	13.4	101.6
-18MT-17 Spot 214	995	1140571	1.1	11.0151	0.4	2.5805	1.2	0.2092	1.2	0.93	1208.8	12.9	1295.1	9.1	1441.2	8.5	1441.2	8.5	83.9
-18MT-17 Spot 310	956	443625	11.0	11.0130	0.7	2.9184	1.4	0.2332	1.2	0.87	1351.3	15.0	1386.7	10.7	1441.6	13.2	1441.6	13.2	93.7
-18MT-17 Spot 134	159	96714	1.2	10.9870	0.5	3.0333	1.1	0.2414	1.0	0.88	1393.8	12.4	1416.0	8.6	1449.6	10.2	1449.6	10.2	95.2
-18MT-17 Spot 79	415	91738	3.5	10.9391	0.7	3.0855	1.3	0.2440	1.1	0.84	1412.1	13.5	1429.1	9.7	1454.4	13.0	1454.4	13.0	97.1
-18MT-17 Spot 88	1066	241928	10.1	10.8211	0.5	2.7424	1.0	0.2173	0.8	0.84	1267.7	9.3	1340.0	7.1	1457.5	9.9	1457.5	9.9	87.0
-18MT-17 Spot 304	1395	13233364	14.0	10.8002	0.5	2.7138	1.0	0.2144	0.9	0.88	1252.4	9.7	1332.2	7.2	1462.9	8.7	1462.9	8.7	85.6
-18MT-17 Spot 28	1262	411934	9.5	10.8001	0.6	2.8224	1.0	0.2224	0.8	0.82	1294.5	9.5	1361.5	7.4	1468.2	10.8	1468.2	10.8	88.2
-18MT-17 Spot 289	1413	342904	7.6	10.8177	0.5	2.9322	1.0	0.2302	0.8	0.83	1335.3	9.8	1390.3	7.4	1475.6	10.3	1475.6	10.3	90.5
-18MT-17 Spot 164	142	213453	2.1	10.8135	0.7	3.2566	1.1	0.2555	0.9	0.82	1486.9	12.1	1470.8	8.8	1476.4	12.4	1476.4	12.4	99.4
-18MT-17 Spot 235	1581	2391900	95.2	10.8040	0.6	2.7589	1.1	0.2163	1.0	0.85	1262.2	11.0	1344.5	8.4	1478.0	11.3	1478.0	11.3	85.4
-18MT-17 Spot 117	114	49732	2.5	10.7950	0.6	3.2764	1.0	0.2566	0.9	0.83	1472.6	11.4	1475.5	8.1	1479.6	10.9	1479.6	10.9	96.5
-18MT-17 Spot 311	1255	776844	8.1	10.7733	0.5	2.7997	1.2	0.2188	1.0	0.89	1275.8	12.0	1355.4	8.7	1483.4	10.2	1483.4	10.2	88.0
-18MT-17 Spot 300	1713	3223843	34.4	10.7729	0.5	2.6848	1.1	0.2099	1.0	0.91	1228.1	11.5	1324.3	8.4	1483.5	9.0	1483.5	9.0	82.8
-18MT-17 Spot 86	348	791685	3.3	10.7481	0.5	3.2688	1.2	0.2548	1.1	0.91	1463.0	14.4	1473.2	9.4	1487.8	9.4	1487.8	9.4	93.3
-18MT-17 Spot 250	1425	2588540	2.1	10.7432	0.4	2.9092	1.0	0.2268	1.0	0.92	1317.6	11.4	1384.3	7.9	1488.7	7.8	1488.7	7.8	85.5
-18MT-17 Spot 247	98	31093	1.5	10.7064	1.0	3.2272	1.4	0.2507	1.0	0.69	1442.1	12.6	1463.7	11.0	1495.2	19.6	1495.2	19.6	96.4
-18MT-17 Spot 189	439	111054	1.4	10.6050	0.7	3.3599	1.2	0.2585	1.0	0.83	1462.0	13.5	1494.9	9.6	1513.2	13.1	1513.2	13.1	97.9
-18MT-17 Spot 20	379	329617	6.7	10.6037	0.5	3.3485	1.0	0.2576	0.9	0.88	1477.7	11.8	1492.4	7.9	1513.4	8.9	1513.4	8.9	97.6
-18MT-17 Spot 112	154	63165	2.3	10.5426	0.7	3.4095	1.1	0.2608	0.8	0.73	1494.0	10.5	1506.6	8.5	1524.3	14.0	1524.3	14.0	98.0
-18MT-17 Spot 95	71	48031	1.4	10.3130	0.7	3.6356	1.2	0.2720	0.9	0.79	1551.2	12.8	1557.4	9.4	1565.7	13.5	1565.7	13.5	99.1
-18MT-17 Spot 41	50	106500	2.1	10.2926	0.7	3.2334	1.1	0.2415	0.8	0.73	1394.4	9.9	1465.2	8.4	1569.4	13.9	1569.4	13.9	88.8
-18MT-17 Spot 100	95	20504	1.2	10.2488	0.6	3.8856	1.1	0.2741	0.9	0.82	1561.4	12.2	1568.2	8.6	1577.4	11.4	1577.4	11.4	96.0
-18MT-17 Spot 243	252	90167	1.4	10.2018	0.4	3.6245	0.8	0.2683	0.6	0.81	1532.1	8.5	1554.9	6.1	1586.0	8.3	1586.0	8.3	95.6
-18MT-17 Spot 267	290	213710	1.5	10.1756	0.5	3.7697	1.1	0.2803	1.0	0.89	1593.0	13.8	1592.0	8.8	1590.8	9.3	1590.8	9.3	100.1
-18MT-17 Spot 108	481	194986	0.9	10.1507	0.5	3.7468	1.1	0.2762	1.0	0.90	1572.1	13.9	1582.1	8.9	1595.4	9.0	1595.4	9.0	98.5
-18MT-17 Spot 308	166	762544	1.1	10.1209	0.6	3.8010	1.0	0.2791	0.8	0.80	1587.0	11.2	1583.0	8.0	1600.9	11.2	1600.9	11.2	99.1
-18MT-17 Spot 196	116	38051	2.5	10.0169	0.6	3.8326	1.2	0.2786	1.1	0.87	1584.1	14.9	1599.6	9.8	1620.1	11.3	1620.1	11.3	97.8
-18MT-17 Spot 279	67	30318	1.7	9.9912	0.6	3.9853	1.1	0.2899	0.9	0.86	1638.1	13.5	1631.2	8.9	1624.9	10.5	1624.9	10.5	100.7
-18MT-17 Spot 237	1211	465272	16.4	9.9908	0.7	3.1242	1.3	0.2265	1.2	0.87	1316.0	13.9	1438.7	10.3	1625.0	12.1	1625.0	12.1	81.0
-18MT-17 Spot 177	797	82135758	2.2	9.9860	1.0	3.5632	1.5	0.2577	1.1	0.76	1477.8	15.0	1541.4	11.8	1629.6	17.8	1629.6	17.8	90.7
-18MT-17 Spot 272	208	75442	2.6	9.9339	0.6	4.1419	1.1	0.2985	0.9	0.83	1684.1	13.9	1662.6	9.2	1635.6	11.6	1635.6	11.6	103.0
-18MT-17 Spot 108	232	289271	1.8	9.9258	0.5	3.9925	0.9	0.2875	0.7	0.79	1629.2	10.1	1632.7	7.2	1637.1	10.0	1637.1	10.0	99.5
-18MT-17 Spot 32	43	92368	1.0	9.9183	0.9	3.9902	1.3	0.2672	0.9	0.70	1627.3	13.1	1632.2	10.6	1638.5	17.3	1638.5	17.3	99.3
-18MT-17 Spot 154	127	182279	1.2	9.9114	0.8	4.0169	1.3	0.2689	1.2	0.88	1635.9	17.1	1637.5	10.9	1639.8	12.0	1639.8	12.0	99.8
-18MT-17 Spot 277	114	96791	1.3	9.9083	0.7	4.0774	1.0	0.2931	0.7	0.73	1657.2	10.4	1649.8	7.9	1640.4	12.4	1640.4	12.4	101.0
-18MT-17 Spot 297	261	112904	0.6	9.9036	0.5	3.9945	0.7	0.2870	0.6	0.79	1626.7	8.3	1633.1	6.0	1641.3	8.5	1641.3	8.5	99.1
-18MT-17 Spot 252	68	79186	1.7	9.8964	0.6	4.0039	1.0	0.2875	0.8	0.80	1629.1	11.3	1635.0	7.9	1642.6	10.7	1642.6	10.7	99.2
-18MT-17 Spot 306	150	183456	2.6	9.8962	0.7	3.9155	1.1	0.2812	0.9	0.77	1597.2	12.4	1616.9	9.2	1642.6	13.6	1642.6	13.6	97.2
-18MT-17 Spot 58	1464	1281962	13.2	9.8924	0.6	3.4053	1.0	0.2444	0.8	0.79	1409.7	9.6	1505.6	7.5	1643.3	11.0	1643.3	11.0	85.8
-18MT-17 Spot 217	105	80680	1.2	9.8751	0.6	4.1413	1.0	0.2967	0.8	0.79	1675.1	12.1	1662.5	8.4	1646.6	11.7	1646.6	11.7	101.7
-18MT-17 Spot 148	347	843367	2.8	9.8218	0.6	3.9413	1.3	0.2738	1.1	0.89	1559.8	15.7	1601.4	10.2	1656.6	10.7	1656.6	10.7	94.2
-18MT-17 Spot 232	563	244117	1.7	9.8158	0.6	4.0428	1.1	0.2879	0.9	0.85	1631.2	13.1	1642.9	8.7	1657.8	10.4	1657.8	10.4	98.4
-18MT-17 Spot 78	288	301666	3.9	9.7490	0.5	4.0932	1.3	0.2865	1.2	0.91	1639.2	16.8	1652.9	10.4	1670.4	9.9	1670.4	9.9	98.1
-18MT-17 Spot 233	156	75642	2.3	9.7456	0.7	3.4088	1.3	0.2410	1.1	0.82	1392.1	13.3	1506.4	10.2	1671.0	13.9	1671.0	13.9	83.3
-18MT-17 Spot 273	171	688458	3.3	9.7105	0.6	4.0240	1.3	0.2835	1.1	0.89	1609.1	15.9	1639.1	10.2	1677.7	10.7	1677.7	10.7	95.9
-18MT-17 Spot 18	337	281623	1.1	9.6940	0.6	3.9465	0.8	0.2776	0.6	0.71	1579.2	8.2	1623.3	6.7	1680.9	10.8	1680.9	10.8	94.0
-18MT-17 Spot 97	286	90966	6.5	9.6763	0.6	4.2239	1.5	0.2966	1.4	0.92	1674.5	20.6	1678.7	12.5	1683.8	11.1	1683.8	11.1	99.4
-18MT-17 Spot 183	189	113346	3.2	9.5812	0.5	4.1861	1.1	0.2910	1.0	0.88	1646.6	14.2	1671.3	9.1	1702.4	9.6	1702.4	9.6	96.7
-18MT-17 Spot 218	507	142689	5.6	9.5711	0.5	4.0924	1.2	0.2842	1.1	0.90	1612.5	15.0	1652.8	9.6	1704.4	9.6	1704.4	9.6	94.6
-18MT-17 Spot 17	437	246094	4.1	9.5642	0.4	3.9256	1.1	0.2721	1.0	0.93	1551.6	13.7	1619.0	8.7	1707.6	7.3	1707.6	7.3	90.9
-18MT-17 Spot 161	114	3072478	1.5	9.5328	0.6	4.2450	1.1	0.2936	1.0	0.88	1658.6	14.0	1682.8	9.1	1711.8	10.5	1711.8	10.5	97.0
-18MT-17 Spot 173																			

-18MT-17 Spot 290	977	34097	1.9	8.7073	0.7	4.7699	1.5	0.3014	1.3	0.88	1698.0	20.0	1779.6	12.8	1676.7	13.3	1876.7	13.3	90.5		
-18MT-17 Spot 85	80	72551	1.6	8.6786	0.8	5.4524	1.0	0.3439	0.8	0.79	1905.4	12.7	1894.7	8.3	1883.0	10.7	1883.0	10.7	101.2		
-18MT-17 Spot 19	179	253638	1.6	8.5777	0.5	5.4818	1.0	0.3412	0.8	0.84	1892.3	13.1	1897.7	8.2	1903.7	9.4	1903.7	9.4	99.4		
-18MT-17 Spot 59	119	53789	1.1	8.5677	0.6	5.5220	1.0	0.3433	0.8	0.80	1902.4	13.5	1904.0	8.8	1905.8	11.1	1905.8	11.1	99.8		
-18MT-17 Spot 39	195	231747	0.6	8.3984	0.5	5.3637	1.0	0.3288	0.9	0.88	1823.1	14.7	1879.1	9.0	1941.5	8.8	1941.5	8.8	93.9		
-18MT-17 Spot 238	189	78988	3.1	8.2932	0.6	5.5708	1.4	0.3362	1.2	0.90	1863.6	20.1	1911.8	11.9	1964.0	10.8	1964.0	10.8	94.9		
-18MT-17 Spot 235	345	290062	1.9	8.2547	0.6	5.7794	1.1	0.3462	1.0	0.86	1916.2	16.0	1943.3	9.7	1972.3	10.0	1972.3	10.0	97.2		
-18MT-17 Spot 44	69	6354547	1.1	8.2020	0.7	6.1434	1.2	0.3666	1.1	0.85	2008.7	18.2	1996.4	10.9	1983.7	11.9	1983.7	11.9	101.3		
-18MT-17 Spot 90	329	109425	2.0	8.1509	0.6	6.0136	1.0	0.3567	0.9	0.84	1961.5	14.8	1977.8	9.1	1994.9	10.1	1994.9	10.1	98.3		
-18MT-17 Spot 65	89	32313	1.0	8.1064	0.6	6.0809	1.0	0.3577	0.8	0.82	1971.1	13.4	1987.5	8.4	2004.6	9.9	2004.6	9.9	98.3		
-18MT-17 Spot 137	156	134888	0.8	8.0745	0.5	6.2757	1.2	0.3677	1.0	0.90	2018.5	18.1	2015.1	10.2	2011.6	9.1	2011.6	9.1	100.3		
-18MT-17 Spot 209	81	55193	1.1	7.7952	0.6	6.7302	1.0	0.3807	0.8	0.80	2079.4	14.4	2076.6	8.9	2073.8	10.6	2073.8	10.6	100.3		
-18MT-17 Spot 186	67	4980	2.8	6.5719	1.9	8.1705	2.1	0.3898	1.0	0.45	2121.0	17.5	2250.1	19.4	2369.6	32.6	2369.6	32.6	89.5		
-18MT-17 Spot 199	439	491736	1.6	6.0786	0.5	9.2814	1.2	0.4094	1.1	0.91	2212.0	20.4	2366.2	11.0	2501.8	8.6	2501.8	8.6	88.4		
-18MT-17 Spot 5	825	312520	12.3	6.0352	0.5	8.5300	0.9	0.3735	0.8	0.87	2046.0	14.1	2289.1	8.4	2513.9	7.7	2513.9	7.7	81.4		
-18MT-17 Spot 205	442	1579	13.2	5.7179	10.8	2.1852	12.0	0.0911	5.7	0.47	561.9	30.8	1179.5	84.0	2604.3	178.7	2604.3	178.7	21.6		
-18MT-17 Spot 152	74	273303	1.5	5.5886	0.6	12.4848	1.0	0.5083	0.8	0.80	2640.6	18.0	2641.8	9.7	2642.3	10.2	2642.3	10.2	99.9		
-18MT-17 Spot 125	52	296084	0.9	5.5634	0.6	13.2953	1.2	0.5367	1.1	0.86	2769.6	23.8	2700.9	11.6	2649.8	10.4	2649.8	10.4	104.5		
-18MT-17 Spot 192	117	225974	0.7	5.2962	0.6	13.4026	1.0	0.5150	0.8	0.79	2878.1	16.5	2708.4	9.0	2731.1	9.6	2731.1	9.6	98.1		
-18MT-17 Spot 21	267	230093	0.6	5.2837	0.5	13.3984	1.2	0.5137	1.1	0.91	2672.3	23.9	2708.1	11.3	2735.0	8.0	2735.0	8.0	97.7		
-18MT-17 Spot 122	25	13714	2.5	5.2800	0.6	12.8723	1.3	0.4932	1.2	0.89	2584.3	24.9	2670.4	12.4	2736.2	9.9	2736.2	9.9	94.4		
-18MT-17 Spot 219	785	781770	2.1	4.9176	0.6	14.1212	1.1	0.5039	1.0	0.84	2830.4	20.8	2757.9	10.8	2852.6	10.0	2852.6	10.0	92.2		
-18MT-17 Spot 220	245	309775	2.9	4.7099	0.5	16.5596	1.3	0.5659	1.2	0.92	2891.0	27.1	2909.7	12.1	2922.6	7.9	2922.6	7.9	98.9		
-18MT-17 Spot 26	31	127015	2.3	4.0521	0.5	21.2698	1.0	0.6254	0.8	0.86	3131.2	21.0	3151.0	9.6	3163.6	8.1	3163.6	8.1	99.0		
18MT-26 (Antone Peak Fm., Monida Sandstone) U-Pb geochronologic analyses.																					
						Isotope ratios					Apparent ages (Ma)										
Analysis	U	206Pb	U/Th	206Pb*	±	207Pb*	±	206Pb*	±	error	206Pb*	±	207Pb*	±	206Pb*	±	Best age	±	Conc		
	(ppm)	204Pb		207Pb*	(%)	235U*	(%)	238U	(%)	corr.	238U*	(Ma)	235U	(Ma)	207Pb*	(Ma)	(Ma)	(Ma)	(%)		
-18MT-26 Spot 138	172	12925	3.6	14.6774	2.8	0.6088	3.0	0.0648	1.1	0.36	405.0	4.3	482.8	11.6	871.6	58.2	405.0	4.3	46.5		
-18MT-26 Spot 2	102	18630	1.4	18.4707	1.4	0.4856	1.8	0.0651	1.2	0.66	406.4	4.8	401.9	6.0	375.9	30.6	406.4	4.8	108.1		
-18MT-26 Spot 44	588	117805	2.2	17.5832	0.8	0.5247	1.5	0.0669	1.3	0.84	417.7	5.3	428.3	5.4	485.6	18.2	417.7	5.3	86.0		
-18MT-26 Spot 144	196	47972	1.7	17.8573	0.8	0.5254	1.2	0.0681	0.9	0.72	424.5	3.6	428.7	4.2	451.4	18.5	424.5	3.6	96.1		
-18MT-26 Spot 264	169	33664	2.1	17.9121	0.9	0.5297	1.3	0.0688	0.9	0.73	429.2	3.8	431.6	4.4	444.5	19.3	429.2	3.8	94.5		
-18MT-26 Spot 34	199	46771	1.4	18.2351	0.8	0.5205	1.6	0.0689	1.3	0.86	429.3	5.6	425.5	5.5	404.7	18.2	429.3	5.6	106.1		
-18MT-26 Spot 4	57	17945	2.6	17.9882	1.3	0.5284	1.6	0.0689	0.9	0.59	429.4	3.8	430.7	5.5	437.6	28.3	429.4	3.8	98.1		
-18MT-26 Spot 300	61	5748	2.5	18.5849	1.4	0.5124	1.6	0.0690	0.9	0.54	430.3	3.7	420.1	5.8	384.4	31.2	430.3	3.7	118.1		
-18MT-26 Spot 247	172	89944	2.6	17.5853	0.8	0.5326	1.2	0.0691	0.8	0.71	430.8	3.5	433.5	4.2	447.9	19.5	430.8	3.5	96.2		
-18MT-26 Spot 209	194	21054	1.9	17.9522	1.2	0.5333	1.6	0.0695	1.1	0.67	433.0	4.5	434.0	5.7	439.6	26.5	433.0	4.5	96.5		
-18MT-26 Spot 46	75	25728	1.3	17.8674	1.4	0.5392	1.7	0.0699	0.9	0.85	435.6	3.8	437.9	5.9	450.1	30.6	435.6	3.8	98.8		
-18MT-26 Spot 143	380	72089	0.8	17.9407	0.7	0.5379	1.4	0.0700	1.2	0.88	436.3	5.0	437.1	4.9	441.0	15.7	436.3	5.0	98.9		
-18MT-26 Spot 68	88	33273	1.4	18.0638	1.2	0.5346	1.6	0.0701	1.0	0.61	436.5	4.1	434.8	5.5	425.8	27.5	436.5	4.1	102.5		
-18MT-26 Spot 27	326	117313	2.0	18.0373	0.8	0.5366	1.6	0.0702	1.4	0.85	437.5	5.7	436.2	5.6	429.0	18.7	437.5	5.7	102.0		
-18MT-26 Spot 244	282	36218	1.0	17.3429	2.0	0.5583	2.2	0.0703	0.9	0.41	437.7	3.9	450.4	8.1	515.9	44.8	437.7	3.9	84.8		
-18MT-26 Spot 221	188	90379	1.0	17.8711	1.1	0.5424	1.6	0.0703	1.2	0.73	438.1	4.9	440.0	5.7	449.6	24.1	438.1	4.9	97.4		
-18MT-26 Spot 280	326	266677	2.7	18.2349	1.0	0.5337	1.8	0.0706	1.5	0.94	439.8	6.4	434.2	6.4	404.7	22.4	439.8	6.4	108.7		
-18MT-26 Spot 112	459	141089	2.4	17.8086	0.7	0.5491	1.2	0.0708	1.0	0.83	441.1	4.2	443.7	4.2	457.4	14.5	441.1	4.2	96.4		
-18MT-26 Spot 19	320	179290	1.9	17.9600	1.0	0.5432	1.9	0.0709	1.6	0.94	441.6	6.9	440.5	6.8	434.9	22.8	441.6	6.9	101.5		
-18MT-26 Spot 225	317	453089	1.0	18.0027	0.7	0.5480	1.6	0.0713	1.4	0.89	444.1	6.1	442.4	5.7	433.3	16.1	444.1	6.1	102.5		
-18MT-26 Spot 150	431	274175	2.5	18.0334	0.7	0.5511	1.7	0.0721	1.6	0.91	448.9	6.9	445.7	6.3	429.5	16.5	448.9	6.9	104.5		
-18MT-26 Spot 38	144	62694	1.9	17.8943	1.1	0.5561	1.6	0.0722	1.1	0.72	449.4	4.9	449.0	5.7	446.8	24.3	449.4	4.9	100.8		
-18MT-26 Spot 0	384	142116	3.2	18.0080	0.9	0.5530	1.8	0.0723	1.5	0.87	449.8	6.7	447.0	6.4	432.5	19.4	449.8	6.7	104.0		
-18MT-26 Spot 55	93	17192	1.7	18.4111	1.1	0.5438	1.5	0.0726	1.1	0.72	452.1	4.9	440.9	5.5	383.1	24.1	452.1	4.9	118.0		
-18MT-26 Spot 243	138	17179	1.1	17.8691	0.9	0.5625	1.3	0.0729	0.9	0.71	453.8	4.1	453.1	4.8	449.9	20.4	453.8	4.1	100.9		
-18MT-26 Spot 265	274	30819	1.5	17.7857	1.0	0.5710	1.4	0.0737	1.0	0.72	458.3	4.3	458.7	5.0	460.3	21.1	458.3	4.3	99.6		
-18MT-26 Spot 84	498	95571	22.1	13.4748	2.9	0.7540	3.4	0.0737	1.7	0.51	458.5	7.6	570.5	14.8	1046.4	58.7	458.5	7.6	43.8		
-18MT-26 Spot 1	323	59044	1.8	17.6379	0.8	0.5832	1.7	0.0746	1.5	0.88	464.1	6.9	466.5	6.5	478.1	18.1	464.1	6.9	99.9		
-18MT-26 Spot 173	300	85839	2.5	17.6765	0.9	0.5851	2.0	0.0750	1.8	0.89	466.5	8.0	467.7	7.5	473.9	20.6	466.5	8.0	98.4		
-18MT-26 Spot 21	256	96054	7.3	16.4446	1.4	0.6757	2.1	0.0806	1.5	0.73	499.9	7.2	524.2	8.5	631.6	30.5	499.9	7.2	79.1		
-18MT-26 Spot 74	56	40602	1.8	17.0279	1.2	0.7338	1.4	0.0907	0.8	0.54	559.4	4.1	558.8	6.2	556.0	26.4	559.4	4.1	100.8		
-18MT-26 Spot 217	260	349922	1.3	17.0220	0.7	0.7366	1.3	0.0910	1.1	0.84	561.3	6.1	560.4	5.8	556.8	15.9	561.3	6.1	100.8		
-18MT-26 Spot 99	301	83700	2.4	16.4734	0.7	0.8712	1.6	0.1041	1.4	0.89	638.6	8.5	636.2	7.5	627.8	15.7	638.6	8.5	101.7		
-18MT-26 Spot 294	350	243625	4.4	14.2567	0.8	1.5101	1.8	0.1582	1.6	0.89	935.7	13.8	934.5	10.7	931.6	16.5	931.6	16.5	100.4		
-18MT-26 Spot 284	119	61035	0.9	14.1827	0.9	1.5449	1.4	0.1590	1.1	0.76	951.1	9.4	948.5	8.6	942.3	18.7	942.3	18.7	100.9		
-18MT-26 Spot 207	229	114805	7.5	14.1827	0.8	1.5534	1.4	0.1599	1.1	0.81	956.0	9.9	951.9	8.4	942.3	16.3	942.3	16.3	101.5		
-18MT-26 Spot 312	113	664																			

-18MT-26 Spot 148	44	25450	1.8	13.4989	1.1	1.8431	1.4	0.1805	1.0	0.86	1069.9	9.4	1061.0	9.5	1042.8	21.9	1042.8	21.9	102.8
-18MT-26 Spot 239	56	51103	2.7	13.4916	0.9	1.7706	1.5	0.1733	1.2	0.81	1030.4	11.5	1034.7	9.6	1043.9	17.4	1043.9	17.4	98.7
-18MT-26 Spot 45	258	123566	4.2	13.4828	0.7	1.7195	1.3	0.1682	1.1	0.82	1002.3	9.8	1015.8	8.3	1045.2	15.0	1045.2	15.0	95.9
-18MT-26 Spot 69	138	86648	1.6	13.4672	0.9	1.8238	1.4	0.1782	1.0	0.76	1057.2	10.1	1054.1	8.9	1047.5	18.0	1047.5	18.0	100.9
-18MT-26 Spot 91	109	247137	1.9	13.4664	0.7	1.8248	1.2	0.1783	1.0	0.80	1057.7	9.5	1054.4	8.0	1047.7	14.8	1047.7	14.8	101.0
-18MT-26 Spot 248	67	16782	2.3	13.4523	0.9	1.8529	1.3	0.1809	1.0	0.74	1071.7	9.6	1064.5	8.7	1049.8	17.7	1049.8	17.7	102.1
-18MT-26 Spot 17	45	16903	1.1	13.4519	1.0	1.8482	1.5	0.1802	1.2	0.78	1068.1	11.8	1062.1	10.1	1049.8	19.2	1049.8	19.2	101.7
-18MT-26 Spot 287	37	41838333	0.5	13.4500	1.1	1.6242	1.4	0.1585	0.8	0.61	948.5	7.4	979.6	8.7	1050.1	22.2	1050.1	22.2	90.3
-18MT-26 Spot 95	42	49170	1.9	13.3834	1.1	1.6578	1.5	0.1610	1.1	0.72	962.3	9.7	992.6	9.6	1060.1	21.1	1060.1	21.1	90.8
-18MT-26 Spot 100	211	101792	2.4	13.3602	0.8	1.8743	1.3	0.1817	1.0	0.79	1076.2	10.2	1072.1	8.6	1063.6	15.9	1063.6	15.9	101.2
-18MT-26 Spot 124	618	209132	2.2	13.3487	0.6	1.8414	1.4	0.1784	1.3	0.89	1058.0	12.4	1060.4	9.4	1065.3	13.0	1065.3	13.0	99.3
-18MT-26 Spot 220	43	16283	1.6	13.3404	0.9	1.8718	1.4	0.1812	1.1	0.75	1073.4	10.5	1071.2	9.4	1066.6	19.1	1066.6	19.1	100.8
-18MT-26 Spot 262	133	142578	3.2	13.3356	0.8	1.8337	1.4	0.1774	1.1	0.80	1052.9	10.8	1057.6	9.0	1067.3	16.7	1067.3	16.7	98.7
-18MT-26 Spot 137	55	17775	2.4	13.3109	0.8	1.8901	1.4	0.1826	1.2	0.82	1080.9	11.5	1077.6	9.3	1071.0	16.0	1071.0	16.0	100.9
-18MT-26 Spot 23	80	91381	1.6	13.3108	0.7	1.8749	1.1	0.1811	0.9	0.78	1072.9	8.5	1072.2	7.3	1071.0	13.8	1071.0	13.8	100.2
-18MT-26 Spot 213	93	199204	1.9	13.3043	0.8	1.8479	1.4	0.1784	1.2	0.83	1058.1	11.7	1062.7	9.5	1072.0	16.1	1072.0	16.1	98.7
-18MT-26 Spot 97	318	124098	1.6	13.3000	0.7	1.8158	1.6	0.1849	1.4	0.90	1083.6	14.2	1086.6	10.4	1072.7	13.5	1072.7	13.5	102.0
-18MT-26 Spot 211	59	119934	1.4	13.2936	0.9	1.8944	1.5	0.1827	1.1	0.78	1081.8	11.1	1079.1	9.7	1073.6	19.0	1073.6	19.0	100.8
-18MT-26 Spot 307	47	38778	0.4	13.2798	1.0	1.7942	1.5	0.1729	1.1	0.73	1028.0	10.4	1043.3	9.8	1075.7	20.6	1075.7	20.6	95.6
-18MT-26 Spot 161	84	401479	2.4	13.2680	0.8	1.9269	1.2	0.1855	0.9	0.76	1097.0	9.1	1060.5	7.9	1077.5	15.4	1077.5	15.4	101.8
-18MT-26 Spot 119	686	182841	2.2	13.2591	0.7	1.8686	1.4	0.1798	1.3	0.88	1065.7	12.4	1070.0	9.4	1078.9	13.3	1078.9	13.3	98.8
-18MT-26 Spot 155	141	1014467	0.7	13.2540	0.9	1.9547	1.4	0.1880	1.1	0.77	1110.4	10.7	1100.1	9.1	1079.6	17.3	1079.6	17.3	102.9
-18MT-26 Spot 90	73	49335	1.3	13.2438	0.9	1.9094	1.2	0.1835	0.8	0.65	1086.0	8.0	1084.4	8.2	1081.1	18.9	1081.1	18.9	100.4
-18MT-26 Spot 253	89	59113	2.5	13.2129	1.0	1.7766	1.3	0.1703	0.9	0.67	1013.9	8.1	1036.9	8.4	1085.8	19.4	1085.8	19.4	93.4
-18MT-26 Spot 131	119	2333025	1.1	13.1976	0.9	1.9209	1.2	0.1839	1.0	0.79	1088.5	9.8	1088.4	8.3	1088.2	15.3	1088.2	15.3	100.0
-18MT-26 Spot 218	40	38942	1.2	13.1929	0.9	1.8665	1.5	0.1787	1.2	0.80	1059.7	11.7	1069.3	9.9	1088.9	17.8	1088.9	17.8	97.3
-18MT-26 Spot 171	432	92386	3.2	13.1925	0.7	1.9519	1.7	0.1868	1.6	0.91	1104.2	16.1	1099.1	11.7	1088.9	14.5	1088.9	14.5	101.4
-18MT-26 Spot 141	148	13757997	1.7	13.1917	0.8	1.8937	1.2	0.1813	0.9	0.75	1073.9	8.8	1078.9	7.9	1089.0	15.8	1089.0	15.8	98.6
-18MT-26 Spot 296	143	72520	2.6	13.1913	0.8	1.8328	1.3	0.1850	1.1	0.80	1094.2	10.7	1062.5	8.9	1089.1	16.0	1089.1	16.0	100.5
-18MT-26 Spot 201	287	143084	1.9	13.1873	0.8	1.9361	1.7	0.1953	1.6	0.89	1095.6	15.7	1093.7	11.7	1089.7	15.6	1089.7	15.6	100.5
-18MT-26 Spot 89	137	82525	2.6	13.1771	0.8	1.8265	1.3	0.1842	1.0	0.81	1089.9	10.3	1060.3	8.5	1091.3	15.0	1091.3	15.0	99.9
-18MT-26 Spot 64	115	81648	3.0	13.1580	0.8	2.0278	1.2	0.1936	0.8	0.73	1140.8	8.8	1124.9	7.9	1094.2	16.0	1094.2	16.0	104.3
-18MT-26 Spot 270	58	180703	1.2	13.1462	0.9	1.9287	1.4	0.1840	1.0	0.76	1088.7	10.4	1091.1	9.1	1096.0	17.8	1096.0	17.8	99.3
-18MT-26 Spot 122	161	207521	1.6	13.1412	0.8	1.9137	1.4	0.1825	1.1	0.82	1080.4	11.3	1085.9	9.2	1096.7	15.9	1096.7	15.9	98.5
-18MT-26 Spot 126	33	48759	2.4	13.1174	1.3	1.8394	1.7	0.1846	1.2	0.89	1092.0	12.0	1094.8	11.6	1100.4	25.1	1100.4	25.1	99.2
-18MT-26 Spot 306	53	49972	1.0	13.1164	0.9	1.9345	1.3	0.1841	0.9	0.73	1089.4	9.4	1093.1	8.6	1100.5	17.4	1100.5	17.4	99.0
-18MT-26 Spot 56	419	113946	1.2	13.0996	0.6	2.0150	1.4	0.1915	1.2	0.89	1129.6	12.8	1120.6	9.5	1103.1	12.9	1103.1	12.9	102.4
-18MT-26 Spot 190	135	92243	1.5	13.0840	0.9	1.9972	1.6	0.1896	1.3	0.83	1119.2	13.3	1114.6	10.6	1105.5	17.5	1105.5	17.5	101.2
-18MT-26 Spot 29	500	450822	2.3	13.0637	0.7	1.9424	1.5	0.1841	1.4	0.88	1089.4	13.7	1095.8	10.4	1108.6	14.5	1108.6	14.5	99.3
-18MT-26 Spot 132	31	131332	1.6	13.0532	1.1	1.8626	1.7	0.1764	1.2	0.73	1047.3	11.7	1067.9	10.9	1110.2	22.6	1110.2	22.6	94.3
-18MT-26 Spot 242	136	172364	1.8	13.0468	0.8	2.0718	1.5	0.1981	1.3	0.87	1154.5	14.1	1139.5	10.5	1111.1	15.2	1111.1	15.2	103.9
-18MT-26 Spot 215	85	18663	1.4	12.9893	0.9	2.0242	1.3	0.1908	0.9	0.71	1125.6	9.6	1123.7	8.9	1120.0	18.4	1120.0	18.4	100.5
-18MT-26 Spot 228	60	107080	1.3	12.9539	0.8	2.0555	1.4	0.1932	1.2	0.82	1138.7	12.2	1134.1	9.8	1125.4	16.5	1125.4	16.5	101.2
-18MT-26 Spot 33	225	573715	4.9	12.9502	0.7	2.0304	1.2	0.1908	1.0	0.83	1125.6	10.5	1125.7	8.3	1126.0	13.5	1126.0	13.5	100.0
-18MT-26 Spot 53	137	52392	2.9	12.9604	0.7	2.1387	1.2	0.1946	1.0	0.80	1173.0	10.2	1161.4	8.2	1139.8	14.2	1139.8	14.2	102.9
-18MT-26 Spot 61	123	3362077	0.8	12.9529	0.9	2.0057	1.4	0.1871	1.1	0.77	1105.4	10.7	1117.4	9.2	1141.0	17.2	1141.0	17.2	98.9
-18MT-26 Spot 203	212	106216	0.9	12.9060	0.7	2.0623	1.1	0.1916	0.8	0.76	1130.2	8.5	1136.4	7.4	1148.3	13.9	1148.3	13.9	98.4
-18MT-26 Spot 39	359	244768	2.3	12.7603	0.6	2.1355	1.3	0.1977	1.1	0.90	1163.0	12.0	1160.4	8.7	1155.3	11.1	1155.3	11.1	100.7
-18MT-26 Spot 67	460	122120	3.4	12.7572	0.8	2.1875	1.7	0.2025	1.6	0.90	1188.7	16.9	1177.1	12.1	1155.8	15.1	1155.8	15.1	102.8
-18MT-26 Spot 62	302	859632	2.0	12.7476	0.7	2.1894	1.5	0.2025	1.4	0.89	1188.8	15.0	1177.7	10.8	1157.3	13.9	1157.3	13.9	102.7
-18MT-26 Spot 79	288	110750	0.7	12.7303	0.7	2.1525	1.7	0.1988	1.6	0.91	1169.0	16.6	1165.8	11.8	1160.0	13.9	1160.0	13.9	100.8
-18MT-26 Spot 285	109	621126	1.2	12.7236	0.7	2.1656	1.2	0.1999	1.0	0.82	1174.9	10.4	1170.1	8.1	1161.1	13.2	1161.1	13.2	101.2
-18MT-26 Spot 10	66	69160	1.7	12.7223	0.9	2.0990	1.3	0.1938	0.9	0.69	1141.7	9.2	1148.5	8.7	1161.3	18.2	1161.3	18.2	98.3
-18MT-26 Spot 182	388	318960	1.5	12.7155	0.7	2.1812	1.4	0.2012	1.3	0.88	1182.0	13.6	1175.0	10.0	1162.3	13.5	1162.3	13.5	101.7
-18MT-26 Spot 195	452	208733	4.7	12.7150	0.8	2.1587	1.6	0.1990	1.4	0.91	1189.3	15.4	1167.2	11.0	1162.4	12.8	1162.4	12.8	100.8
-18MT-26 Spot 178	348	152717	3.1	12.6808	0.8	2.1607	1.6	0.1988	1.4	0.88	1168.9	15.4	1168.5	11.4	1167.7	15.6	1167.7	15.6	100.1
-18MT-26 Spot 15	312	99895	3.6	12.6804	0.8	2.1727	1.6	0.1999	1.4	0.88	1174.8	15.2	1172.4	11.3	1167.8	15.5	1167.8	15.5	100.6
-18MT-26 Spot 204	154	1456090	2.8	12.6801	0.5	2.2533	1.1	0.2073	1.0	0.88	1214.5	11.1	1167.8	8.0	1167.8	10.6	1167.8	10.6	104.0
-18MT-26 Spot 277	363	124916	2.3	12.6743	0.7	2.1942	1.7	0.2018	1.6	0.92	1194.9	17.3	1179.2	12.2	1168.8	13.7	1168.8	13.7	101.4
-18MT-26 Spot 37	166	425218	1.5	12.6598	0.8	2.1313	1.4	0.1958	1.2	0.84	1152.6	12.8	1159.0	9.9	1171.0	15.4	1171.0	15.4	98.4
-18MT-26 Spot 5	114	249442	3.8	12.6184	0.7	2.2376	1.2	0.2049	0.9	0.79	1201.4	10.1	1162.9	8.2	1177.5	14.1	1177.5	14.1	10

-18MT-26 Spot 176	66	120600	2.2	10.8494	0.7	3.2616	1.3	0.2567	1.0	0.82	1473.1	13.5	1471.9	9.7	1470.2	13.7	1470.2	13.7	100.2
-18MT-26 Spot 25	120	51783	2.9	10.7982	0.7	3.4443	1.1	0.2898	0.9	0.80	1539.8	12.2	1514.6	8.7	1479.4	12.6	1479.4	12.6	104.1
-18MT-26 Spot 236	78	194845	2.9	10.7705	0.8	3.3375	1.5	0.2608	1.2	0.83	1494.0	16.5	1489.9	11.6	1483.9	15.7	1483.9	15.7	100.7
-18MT-26 Spot 208	171	204951	1.9	10.7846	0.9	3.3207	1.4	0.2594	1.1	0.77	1498.6	14.9	1485.9	11.3	1485.0	17.4	1485.0	17.4	100.1
-18MT-26 Spot 78	143	328445	2.6	10.7432	0.8	3.3500	1.3	0.2611	1.1	0.79	1495.6	14.2	1492.8	10.5	1488.7	15.7	1488.7	15.7	100.5
-18MT-26 Spot 288	222	2336175	2.5	10.7403	0.8	3.3894	1.3	0.2641	1.1	0.87	1510.6	14.8	1501.7	9.9	1499.2	11.9	1499.2	11.9	101.4
-18MT-26 Spot 301	149	72054	2.6	10.7101	0.8	3.3304	1.2	0.2588	0.9	0.78	1483.7	11.9	1488.2	9.2	1494.6	14.4	1494.6	14.4	99.3
-18MT-26 Spot 114	184	68097	2.7	10.8925	0.8	3.3720	1.3	0.2616	1.0	0.79	1498.1	13.4	1497.9	10.0	1497.7	14.8	1497.7	14.8	100.0
-18MT-26 Spot 185	50	351109	2.3	10.8832	0.8	3.3826	1.4	0.2622	1.1	0.83	1501.1	15.1	1500.4	10.7	1499.3	14.4	1499.3	14.4	100.1
-18MT-26 Spot 3	59	414195	0.9	10.8687	0.8	3.3846	1.3	0.2620	1.0	0.79	1499.9	13.6	1500.8	10.0	1502.2	14.7	1502.2	14.7	99.8
-18MT-26 Spot 106	526	439455	2.0	10.8372	0.7	3.3663	1.5	0.2596	1.3	0.88	1488.9	17.3	1496.6	11.5	1507.5	13.0	1507.5	13.0	98.8
-18MT-26 Spot 157	138	85767	2.2	10.8007	0.7	3.3848	1.1	0.2603	0.9	0.79	1491.6	11.5	1500.9	8.5	1514.0	12.5	1514.0	12.5	98.5
-18MT-26 Spot 269	377	752183	1.2	10.3553	0.9	2.8746	1.8	0.2160	1.6	0.87	1260.6	17.9	1375.3	13.5	1558.0	16.3	1558.0	16.3	89.9
-18MT-26 Spot 188	107	102962	1.9	10.1882	0.7	3.8779	1.2	0.2867	0.9	0.79	1624.9	13.4	1609.1	9.6	1588.5	13.6	1588.5	13.6	102.3
-18MT-26 Spot 142	239	3259118	2.2	10.1105	0.7	3.8849	1.1	0.2850	0.9	0.78	1616.5	12.8	1610.5	9.3	1602.8	13.4	1602.8	13.4	100.9
-18MT-26 Spot 96	94	57919	1.2	10.1100	0.7	3.9686	1.1	0.2910	0.9	0.76	1646.4	12.7	1627.4	9.3	1602.9	13.8	1602.9	13.8	102.7
-18MT-26 Spot 177	68	47621	1.3	10.0298	0.8	3.9672	1.3	0.2887	1.0	0.77	1635.1	14.4	1627.5	10.5	1617.7	15.5	1617.7	15.5	101.1
-18MT-26 Spot 83	170	328226	2.9	10.0157	0.7	3.9143	1.2	0.2945	0.9	0.78	1613.8	13.2	1616.8	9.6	1620.3	13.9	1620.3	13.9	99.8
-18MT-26 Spot 60	54	19629	0.8	10.0020	0.9	3.9364	1.4	0.2857	1.1	0.79	1619.9	16.0	1621.2	11.4	1622.9	15.9	1622.9	15.9	99.8
-18MT-26 Spot 278	102	178356	1.3	9.9915	0.8	3.9471	1.3	0.2862	1.1	0.82	1622.3	15.6	1623.4	10.8	1624.8	14.2	1624.8	14.2	99.8
-18MT-26 Spot 230	246	96527	2.0	9.9710	0.8	3.9338	1.3	0.2846	1.0	0.79	1614.5	14.3	1620.7	10.2	1628.7	14.3	1628.7	14.3	99.1
-18MT-26 Spot 189	39	20071	1.2	9.9700	0.9	4.1285	1.3	0.2987	1.0	0.76	1684.7	15.1	1680.0	11.0	1628.8	16.4	1628.8	16.4	103.4
-18MT-26 Spot 20	436	207507	2.7	9.9361	0.6	4.0360	1.6	0.2910	1.5	0.83	1646.4	21.6	1641.5	13.0	1635.2	11.0	1635.2	11.0	100.7
-18MT-26 Spot 54	89	66665	0.5	9.9344	0.6	3.9878	1.1	0.2874	0.9	0.82	1628.8	12.8	1631.7	8.9	1635.5	11.7	1635.5	11.7	99.6
-18MT-26 Spot 120	128	75629	1.6	9.9214	0.7	4.0728	1.1	0.2932	0.9	0.80	1657.5	13.2	1648.9	9.2	1637.9	12.6	1637.9	12.6	101.2
-18MT-26 Spot 260	248	1013536	1.2	9.9016	0.7	3.9892	1.4	0.2866	1.2	0.88	1624.5	17.7	1632.0	11.4	1641.6	12.5	1641.6	12.5	99.0
-18MT-26 Spot 258	164	149705	1.3	9.9014	0.7	4.1324	1.4	0.2968	1.2	0.85	1675.9	17.0	1660.7	11.1	1641.7	13.2	1641.7	13.2	102.1
-18MT-26 Spot 8	193	155369	1.1	9.9004	0.6	4.0553	1.1	0.2913	0.9	0.84	1648.1	13.2	1645.4	8.8	1641.9	10.9	1641.9	10.9	100.4
-18MT-26 Spot 205	71	22492	1.1	9.8886	0.8	4.1932	1.2	0.3008	0.9	0.76	1695.3	13.9	1672.7	10.1	1644.4	14.8	1644.4	14.8	103.1
-18MT-26 Spot 149	215	112146	0.5	9.8841	0.8	3.9908	1.3	0.2882	1.1	0.81	1622.6	15.4	1632.3	10.8	1644.9	14.5	1644.9	14.5	98.8
-18MT-26 Spot 85	147	1055098	1.5	9.8640	0.7	4.0155	1.1	0.2874	0.9	0.77	1628.5	12.5	1637.3	9.2	1648.7	13.3	1648.7	13.3	98.8
-18MT-26 Spot 237	180	164290	0.8	9.8625	0.8	4.0263	1.5	0.2881	1.2	0.81	1632.1	17.0	1639.5	11.8	1649.0	15.7	1649.0	15.7	99.0
-18MT-26 Spot 73	121	85007	1.3	9.8550	0.7	4.1470	1.2	0.2965	1.0	0.81	1674.1	14.7	1663.8	10.1	1650.4	13.3	1650.4	13.3	101.4
-18MT-26 Spot 50	44	189453	1.0	9.8254	1.1	4.0451	1.6	0.2884	1.2	0.74	1633.5	17.4	1643.3	13.2	1655.9	20.2	1655.9	20.2	98.6
-18MT-26 Spot 227	259	101256	1.4	9.7990	0.6	4.1929	1.8	0.2981	1.7	0.94	1682.0	25.6	1672.8	15.1	1660.9	11.7	1660.9	11.7	101.3
-18MT-26 Spot 198	304	162841	2.9	9.7970	0.7	4.0297	1.6	0.2865	1.5	0.91	1623.8	21.3	1640.2	13.3	1661.3	12.8	1661.3	12.8	97.7
-18MT-26 Spot 47	116	93021	1.7	9.7831	0.7	4.0977	1.3	0.2909	1.1	0.83	1645.9	16.2	1653.8	10.9	1663.9	13.9	1663.9	13.9	99.9
-18MT-26 Spot 154	209	273571	1.6	9.7448	0.7	4.3243	1.2	0.3068	0.9	0.80	1719.9	14.2	1668.0	9.7	1671.2	13.0	1671.2	13.0	102.9
-18MT-26 Spot 259	116	172224	1.8	9.7069	0.7	4.1517	1.2	0.2924	1.0	0.82	1653.6	14.4	1664.6	9.8	1678.4	12.8	1678.4	12.8	99.5
-18MT-26 Spot 48	87	35625	1.2	9.6914	0.8	4.1090	1.2	0.2889	0.9	0.77	1636.2	13.3	1656.1	9.7	1681.3	13.9	1681.3	13.9	97.3
-18MT-26 Spot 127	128	389710	1.2	9.6745	0.8	4.3268	1.3	0.3037	1.1	0.81	1709.8	15.9	1698.5	10.8	1684.6	14.3	1684.6	14.3	101.5
-18MT-26 Spot 24	346	209098	1.4	9.6530	0.6	4.2597	1.3	0.2984	1.1	0.88	1683.1	16.9	1685.6	10.7	1688.7	11.5	1688.7	11.5	99.7
-18MT-26 Spot 298	195	959638	1.3	9.6104	0.6	4.3279	1.2	0.3019	1.0	0.85	1700.2	15.3	1698.7	9.9	1696.8	11.5	1696.8	11.5	100.2
-18MT-26 Spot 187	94	249805	1.9	9.5249	0.8	4.8398	1.4	0.3138	1.1	0.81	1759.2	17.2	1738.3	11.4	1713.3	14.8	1713.3	14.8	102.7
-18MT-26 Spot 268	749	400574	1.9	9.5127	0.7	4.0011	1.5	0.2762	1.3	0.89	1672.0	18.2	1634.4	11.9	1715.6	12.2	1715.6	12.2	91.6
-18MT-26 Spot 133	61	100829	2.2	9.5100	0.7	4.1295	1.1	0.2943	0.9	0.80	1613.1	12.8	1658.4	9.2	1716.2	12.4	1716.2	12.4	94.0
-18MT-26 Spot 125	350	1512894	1.9	9.5057	0.7	4.3703	1.7	0.3014	1.5	0.90	1698.4	22.4	1706.7	13.7	1717.0	13.3	1717.0	13.3	98.9
-18MT-26 Spot 272	90	109383	1.8	9.4809	0.8	4.4466	1.3	0.3059	1.0	0.78	1720.4	15.5	1721.1	10.9	1721.8	15.1	1721.8	15.1	99.9
-18MT-26 Spot 193	107	49516	2.2	9.4797	0.9	4.1456	1.3	0.2851	1.0	0.76	1617.2	14.3	1663.3	10.8	1722.0	15.8	1722.0	15.8	93.9
-18MT-26 Spot 232	222	245168	2.4	9.4508	0.7	4.5001	1.1	0.3068	0.9	0.80	1733.8	13.5	1731.0	9.2	1727.6	12.1	1727.6	12.1	100.4
-18MT-26 Spot 77	286	113781	3.6	9.4417	0.6	4.6804	1.5	0.3206	1.4	0.91	1792.8	21.4	1763.7	12.6	1729.4	11.7	1729.4	11.7	103.7
-18MT-26 Spot 261	52	46131	1.2	9.4114	0.7	4.3797	1.2	0.2991	0.9	0.78	1686.7	13.8	1708.5	9.8	1735.3	13.7	1735.3	13.7	97.2
-18MT-26 Spot 134	406	559013	2.9	9.3880	0.9	4.5444	1.8	0.3096	1.6	0.97	1738.5	24.1	1739.1	15.2	1739.9	16.7	1739.9	16.7	99.9
-18MT-26 Spot 250	117	75547	3.5	9.3874	0.7	4.5894	1.1	0.3126	0.9	0.77	1753.5	13.5	1747.3	9.5	1740.0	13.2	1740.0	13.2	100.8
-18MT-26 Spot 42	46	58775	1.5	9.3810	0.7	4.4420	1.4	0.3024	1.2	0.87	1703.0	18.5	1720.2	11.8	1741.2	13.1	1741.2	13.1	97.8
-18MT-26 Spot 238	255	173147	2.3	9.3808	0.6	4.6841	1.2	0.3175	1.0	0.86	1777.3	16.0	1760.8	10.0	1741.3	11.2	1741.3	11.2	102.1
-18MT-26 Spot 223	248	109011	2.3	9.3704	0.9	4.6055	1.4	0.3131	1.1	0.79	1756.1	16.9	1750.3	11.8	1743.3	16.4	1743.3	16.4	100.7
-18MT-26 Spot 87	195	98484	5.0	9.3559	0.6	4.4707	1.4	0.3035	1.2	0.88	1708.6	18.4	1725.5	11.5	1746.1	11.6	1746.1	11.6	97.9
-18MT-26 Spot 139	130	154871	2.7	9.3338	0.7	4.6160	1.2	0.3126	1.0	0.80	1753.6	14.9	1752.2	10.1	1750.5	13.2	1750.5	13.2	100.2
-18MT-26 Spot 266	522	1405368	2.3	9.2799	0.7	4.6124	1.8	0.3106	1.6	0.91	1743.5	24.6	1751.5	14.7	1781.1	13.2	1781.1	13.2	99.0
-18MT-26 Spot 282	588	1522277	4.8	9.2749	0.7	4.6180	1.3	0.3106	1.0	0.82	1743.9	16.0	1752.2	10.7	1762.0	13.6	1762.0	13.	

-18MT-26 Spot 273	140	227310	3.8	8.5642	0.8	5.6494	1.3	0.3510	1.0	0.81	1939.3	17.8	1923.5	11.2	1906.5	13.8	1906.5	13.8	101.7
-18MT-26 Spot 158	372	1889687	2.8	8.5544	0.7	5.5796	1.5	0.3483	1.3	0.88	1917.0	22.3	1913.0	13.1	1908.5	13.0	1908.5	13.0	100.4
-18MT-26 Spot 30	41	49313	0.3	8.5091	0.7	5.6795	1.4	0.3507	1.2	0.85	1937.7	19.5	1928.3	11.9	1918.1	13.1	1918.1	13.1	101.0
-18MT-26 Spot 251	221	213524	1.1	8.4817	0.7	5.6377	1.3	0.3470	1.2	0.87	1920.0	19.5	1921.9	11.8	1923.9	12.0	1923.9	12.0	99.8
-18MT-26 Spot 7	400	934346	1.7	8.4370	0.6	5.7013	1.5	0.3490	1.4	0.91	1929.9	23.0	1931.8	13.1	1933.3	11.1	1933.3	11.1	99.8
-18MT-26 Spot 98	164	161738	0.6	8.4198	0.6	5.7197	1.1	0.3494	0.9	0.84	1931.8	14.8	1934.4	9.1	1937.0	10.2	1937.0	10.2	99.7
-18MT-26 Spot 303	473	447349	2.8	8.3701	0.8	5.5405	1.5	0.3365	1.4	0.92	1889.7	22.8	1906.9	13.2	1947.6	10.9	1947.6	10.9	98.0
-18MT-26 Spot 202	208	1393890	2.4	8.3455	0.7	5.8242	1.1	0.3527	0.9	0.79	1947.4	15.3	1950.0	9.9	1952.8	12.4	1952.8	12.4	99.7
-18MT-26 Spot 165	422	641706	1.4	8.3338	0.8	5.6726	1.7	0.3430	1.6	0.88	1901.2	25.0	1927.2	14.9	1955.3	14.6	1955.3	14.6	97.2
-18MT-26 Spot 214	130	62021	1.9	8.3147	0.7	5.9673	1.3	0.3600	1.1	0.86	1982.2	19.8	1971.1	11.6	1959.4	12.0	1959.4	12.0	101.2
-18MT-26 Spot 123	101	373384	1.1	8.3058	0.8	5.9458	1.3	0.3583	1.1	0.83	1974.2	18.8	1968.0	11.6	1961.3	13.5	1961.3	13.5	100.7
-18MT-26 Spot 162	134	18421380	2.4	8.2986	0.7	5.9335	1.4	0.3573	1.2	0.88	1969.2	21.1	1966.2	12.3	1962.9	12.1	1962.9	12.1	100.3
-18MT-26 Spot 263	281	462317	2.4	8.2658	0.8	5.2215	1.7	0.3132	1.5	0.89	1756.2	22.9	1856.1	14.2	1970.0	13.5	1970.0	13.5	99.2
-18MT-26 Spot 293	148	94639	2.3	8.2140	0.6	6.0041	1.2	0.3578	1.0	0.87	1971.9	17.7	1976.4	10.4	1981.1	10.6	1981.1	10.6	99.5
-18MT-26 Spot 218	179	19810	2.4	8.2018	0.7	6.1976	1.2	0.3688	1.0	0.80	2023.9	16.5	2004.1	10.4	1993.8	12.6	1993.8	12.6	102.0
-18MT-26 Spot 40	435	245729	1.0	8.1897	0.9	5.8731	2.1	0.3371	1.9	0.91	1872.6	31.2	1927.3	18.3	1986.5	15.9	1986.5	15.9	94.3
-18MT-26 Spot 171	384	182867	2.8	8.1884	0.9	5.4834	1.8	0.3250	1.6	0.88	1814.1	24.8	1868.0	15.4	1991.0	15.4	1991.0	15.4	91.1
-18MT-26 Spot 35	187	134246	3.1	8.1294	0.6	6.1425	1.4	0.3623	1.2	0.89	1993.1	20.7	1996.3	11.8	1999.6	10.8	1999.6	10.8	99.7
-18MT-26 Spot 18	372	346258	2.6	8.1022	0.7	6.4174	1.5	0.3773	1.3	0.89	2063.5	23.3	2034.7	13.1	2005.5	12.3	2005.5	12.3	102.9
-18MT-26 Spot 229	789	849328	1.3	7.7103	0.6	6.0425	1.5	0.3380	1.4	0.92	1877.3	23.1	1982.0	13.4	2093.1	10.6	2093.1	10.6	89.7
-18MT-26 Spot 111	29	149325	5.1	6.4657	0.8	6.1522	1.2	0.4294	0.9	0.75	2302.9	17.1	2353.3	10.9	2397.4	13.5	2397.4	13.5	95.1
-18MT-26 Spot 81	64	42886	1.2	6.1408	0.8	10.1374	1.0	0.4517	0.9	0.84	2402.8	17.5	2447.4	9.8	2484.7	9.4	2484.7	9.4	95.7
-18MT-26 Spot 308	217	280483	1.5	6.1128	0.8	10.4497	1.2	0.4835	0.9	0.73	2454.9	17.5	2475.5	10.9	2492.4	13.6	2492.4	13.6	98.5
-18MT-26 Spot 314	290	29603834	2.5	5.9127	0.8	11.2088	1.4	0.4809	1.1	0.82	2631.1	23.2	2540.6	12.6	2548.3	13.0	2548.3	13.0	99.3
-18MT-26 Spot 196	132	97378	1.6	5.8651	0.9	11.8205	1.4	0.5022	1.1	0.78	2623.1	23.3	2590.3	12.9	2564.7	14.3	2564.7	14.3	102.3
-18MT-26 Spot 235	151	581023	1.2	5.6954	0.8	11.8735	1.2	0.4907	0.9	0.77	2673.6	19.5	2594.5	11.2	2610.8	12.6	2610.8	12.6	98.6
-18MT-26 Spot 75	95	113871	1.8	5.5777	1.1	12.2648	1.6	0.4964	1.1	0.71	2598.2	24.6	2624.9	15.2	2645.5	18.9	2645.5	18.9	95.2
-18MT-26 Spot 122	226	801395	1.3	5.5226	0.8	12.3549	1.4	0.4951	1.1	0.81	2692.6	23.5	2631.8	12.8	2682.0	13.3	2682.0	13.3	97.4
-18MT-26 Spot 31	113	458913	2.0	5.5175	0.7	11.9535	1.2	0.4785	1.0	0.80	2520.9	20.5	2600.8	11.5	2683.5	12.1	2683.5	12.1	94.6
-18MT-26 Spot 224	98	105853	0.7	5.4823	0.7	12.5841	1.3	0.5006	1.1	0.85	2616.3	24.5	2649.0	12.8	2674.1	11.7	2674.1	11.7	97.8
-18MT-26 Spot 245	93	219176	1.4	5.4166	0.7	13.2590	1.3	0.5211	1.1	0.84	2703.9	23.5	2698.3	12.0	2694.1	11.4	2694.1	11.4	100.4
-18MT-26 Spot 283	45	91763	1.5	5.3988	0.8	13.2689	1.3	0.5198	1.1	0.80	2698.2	23.2	2699.0	12.4	2699.5	13.0	2699.5	13.0	100.0
-18MT-26 Spot 152	293	415274	1.7	5.3596	0.9	13.1296	1.7	0.5105	1.5	0.86	2656.7	31.9	2689.0	16.1	2711.8	14.3	2711.8	14.3	99.0
-18MT-26 Spot 311	94	130154	2.3	5.3453	0.7	13.7813	1.2	0.5345	0.9	0.79	2760.4	20.2	2734.8	10.9	2715.9	11.8	2715.9	11.8	101.6
-18MT-26 Spot 170	11	249798	1.5	5.3202	0.9	13.8918	1.6	0.5363	1.3	0.84	2767.7	29.8	2742.4	14.9	2723.7	14.1	2723.7	14.1	101.8
-18MT-26 Spot 252	143	1051599	1.4	5.3098	0.7	13.6560	1.2	0.5262	0.9	0.78	2725.6	20.1	2726.4	11.0	2726.9	11.9	2726.9	11.9	100.0
-18MT-26 Spot 110	50	109769	0.5	5.3038	0.8	13.4603	1.2	0.5180	0.9	0.76	2690.6	19.7	2712.5	11.1	2728.8	12.6	2728.8	12.6	98.6
-18MT-26 Spot 304	173	153178	1.6	5.2977	0.7	13.8443	1.4	0.5322	1.2	0.87	2750.6	26.9	2739.1	13.1	2730.7	11.4	2730.7	11.4	100.7
-18MT-26 Spot 101	175	418506	1.3	5.2899	0.6	13.2953	1.1	0.5103	0.9	0.81	2657.9	18.6	2700.8	10.0	2733.1	10.3	2733.1	10.3	97.3
-18MT-26 Spot 140	187	255996	1.1	5.2623	0.8	13.7018	1.4	0.5232	1.2	0.83	2712.6	25.7	2729.3	13.2	2741.7	12.8	2741.7	12.8	98.9
-18MT-26 Spot 38	113	171848	1.4	5.2455	0.7	12.5954	1.5	0.4794	1.4	0.90	2524.6	28.8	2649.9	14.5	2746.9	11.2	2746.9	11.2	91.9
-18MT-26 Spot 72	65	113464	1.5	5.2240	0.8	13.9700	1.4	0.5295	1.2	0.83	2739.4	26.1	2747.7	13.3	2753.7	12.7	2753.7	12.7	99.5
-18MT-26 Spot 94	68	153049	1.2	5.1819	0.6	14.0524	1.1	0.5294	0.9	0.85	2734.5	20.1	2753.2	10.1	2767.0	9.1	2767.0	9.1	98.8
-18MT-26 Spot 305	52	36886	1.8	5.1774	0.8	13.7978	1.1	0.5183	0.9	0.88	2692.1	20.8	2735.9	10.4	2768.4	9.3	2768.4	9.3	97.2
-18MT-26 Spot 167	185	865331	1.3	5.1691	0.6	14.3911	1.3	0.5398	1.1	0.88	2782.4	26.0	2775.8	12.3	2771.1	9.9	2771.1	9.9	100.4
-18MT-26 Spot 299	581	805406	5.2	5.1511	0.6	12.4048	1.3	0.4636	1.1	0.87	2455.6	22.5	2635.5	11.9	2776.8	10.4	2776.8	10.4	88.4
-18MT-26 Spot 121	523	7318942	4.7	5.1459	0.7	12.6334	1.3	0.4717	1.1	0.85	2491.0	22.9	2652.7	12.3	2778.4	11.2	2778.4	11.2	89.7
-18MT-26 Spot 6	103	237353	1.2	5.1431	0.7	14.3339	1.3	0.5349	1.0	0.81	2762.1	22.9	2772.1	11.9	2779.3	11.9	2779.3	11.9	99.4
-18MT-26 Spot 172	742	31485	3.3	5.1392	0.7	12.9509	1.5	0.4829	1.3	0.87	2540.0	26.9	2676.1	13.9	2780.6	11.9	2780.6	11.9	91.3
-18MT-26 Spot 174	323	162121	22.8	5.0843	0.9	13.4291	3.6	0.4854	3.5	0.97	2594.0	74.5	2710.3	34.1	2789.1	15.0	2789.1	15.0	82.7
-18MT-26 Spot 192	323	439677	3.1	5.0570	1.1	14.3687	1.7	0.5272	1.5	0.90	2729.7	34.2	2774.4	16.2	2807.0	12.2	2807.0	12.2	97.2
-18MT-26 Spot 32	54	51637	1.5	5.0391	1.1	14.3290	1.5	0.5239	1.0	0.88	2715.8	22.9	2771.7	14.4	2812.7	18.2	2812.7	18.2	95.6
-18MT-26 Spot 276	185	148508	5.0	5.0008	0.5	14.7157	1.1	0.5340	1.0	0.88	2758.1	21.5	2797.0	10.4	2825.2	8.5	2825.2	8.5	97.6
-18MT-26 Spot 156	134	4829696	1.5	4.9753	0.7	13.6587	1.4	0.4931	1.2	0.88	2694.0	26.4	2726.3	13.3	2833.5	10.7	2833.5	10.7	91.2
-18MT-26 Spot 181	78	141283	0.9	4.9287	0.6	15.9832	1.0	0.5716	0.8	0.81	2914.3	18.4	2875.8	9.3	2848.9	9.2	2848.9	9.2	102.3
-18MT-26 Spot 14	63	131058	0.9	4.9081	0.7	15.6942	1.2	0.5589	1.0	0.84	2862.1	23.6	2858.4	11.6	2855.7	10.7	2855.7	10.7	100.2
-18MT-26 Spot 194	499	641771	1.4	4.8917	0.8	14.5055	1.6	0.5149	1.4	0.85	2677.3	30.2	2783.4	15.4	2861.2	13.8	2861.2	13.8	93.6
-18MT-26 Spot 290	57	107669	1.2	4.7369	0.9	17.1623	1.7	0.5899	1.4	0.85	2998.9	34.1	2943.9	16.1	2913.4	14.3	2913.4	14.3	102.6
-18MT-26 Spot 59	75	150673	1.6	4.6970	0.7	16.6353	1.4	0.5869	1.2	0.85	2895.2	27.5	2914.0	13.3	2927.1	11.8	2927.1	11.8	98.9
-18MT-26 Spot 107	57	90222	1.9	4.0443	0.9	22.7272	1.4	0.6868	1.1	0.75	3294.0	28.3	3215.3	13.7	3166.6	14.0	3166.6	14.0	104.0
-18MT-26 Spot 111	292	495258	0.8	3.8783	0.7	22.2013	1.6	0.6244	1.4	0.89	3127.5	34.1	3192.6	15.1	3233.7				

-18MT-36 Spot 24	464	127910	2.4	17.8943	0.8	0.5478	1.3	0.0711	1.1	0.87	442.9	4.9	443.6	4.7	446.8	14.1	442.9	4.9	99.1
-18MT-36 Spot 206	69	109321	88.3	17.2591	1.4	0.5702	1.8	0.0714	1.1	0.61	444.6	4.8	458.1	6.6	526.6	31.1	444.6	4.8	84.4
-18MT-36 Spot 20	599	56752	1.0	17.8627	0.8	0.5547	1.3	0.0719	1.2	0.88	447.6	5.1	448.1	4.9	450.7	14.0	447.6	5.1	99.3
-18MT-36 Spot 190	301	98673	1.6	17.6055	0.7	0.5896	1.3	0.0728	1.0	0.81	452.8	4.4	457.7	4.8	482.9	16.4	452.8	4.4	83.8
-18MT-36 Spot 262	571	173498	1.2	17.6064	0.8	0.6159	1.7	0.0787	1.5	0.89	488.2	7.2	487.3	8.7	482.7	17.3	488.2	7.2	101.1
-18MT-36 Spot 78	171	28922	0.8	17.0435	0.9	0.7313	1.5	0.0904	1.2	0.80	558.1	6.2	557.3	8.2	554.0	19.1	558.1	6.2	100.7
-18MT-36 Spot 273	151	32398	1.9	15.1765	2.2	0.6558	2.8	0.1062	1.8	0.63	645.1	10.8	681.1	13.9	802.0	45.7	645.1	10.8	80.4
-18MT-36 Spot 2	60	16691	2.0	15.9055	1.4	0.9439	1.6	0.1083	0.8	0.49	662.6	5.0	674.9	8.0	716.3	29.9	662.6	5.0	92.5
-18MT-36 Spot 18	530	30889	2.5	14.9783	0.9	0.9993	1.7	0.1086	1.4	0.83	684.6	8.7	703.4	8.4	829.5	19.3	684.6	8.7	80.1
-18MT-36 Spot 131	117	89691	2.7	14.0626	0.8	1.5326	1.1	0.1564	0.7	0.63	936.7	5.9	943.6	6.6	959.7	16.9	959.7	16.9	97.6
-18MT-36 Spot 140	348	94474	3.2	14.0619	0.7	1.5603	1.3	0.1592	1.1	0.83	952.3	9.7	954.6	8.1	959.8	15.0	959.8	15.0	99.2
-18MT-36 Spot 1	564	132058	2.2	14.0133	0.8	1.5858	1.2	0.1612	1.0	0.84	963.7	8.9	964.6	7.3	966.9	13.0	966.9	13.0	99.7
-18MT-36 Spot 250	229	118092	1.5	13.8964	0.7	1.6398	1.0	0.1653	0.8	0.75	986.4	7.0	985.6	6.4	984.0	13.6	984.0	13.6	100.2
-18MT-36 Spot 227	42	11173	2.9	13.8955	1.5	1.6782	1.8	0.1692	1.0	0.55	1007.7	9.4	1000.3	11.8	984.1	31.0	984.1	31.0	102.4
-18MT-36 Spot 305	274	60395	2.5	13.8610	0.7	1.6950	1.2	0.1705	1.0	0.83	1014.7	9.2	1006.6	7.5	989.2	13.4	989.2	13.4	102.8
-18MT-36 Spot 150	38	11018	1.0	13.8504	1.0	1.6472	1.3	0.1655	0.9	0.67	987.5	8.1	988.5	8.4	990.7	20.0	990.7	20.0	99.7
-18MT-36 Spot 105	97	30986	2.7	13.7766	0.8	1.7059	1.2	0.1706	0.8	0.70	1015.5	7.9	1011.1	7.6	1001.5	17.1	1001.5	17.1	101.4
-18MT-36 Spot 18	19	26351	0.7	13.7390	1.3	1.6394	1.5	0.1633	0.8	0.65	975.2	7.6	985.1	9.8	1007.1	25.6	1007.1	25.6	98.8
-18MT-36 Spot 154	92	42947	0.5	13.7321	0.9	1.6687	1.3	0.1661	0.9	0.69	990.4	8.2	995.9	8.2	1008.1	18.8	1008.1	18.8	98.2
-18MT-36 Spot 310	488	382581	2.6	13.7149	0.7	1.7292	1.2	0.1721	1.0	0.83	1023.5	9.3	1019.4	7.7	1010.6	13.7	1010.6	13.7	101.3
-18MT-36 Spot 160	224	86298	2.4	13.6351	0.6	1.7121	1.1	0.1694	1.0	0.84	1008.7	9.0	1013.1	7.3	1022.5	12.5	1022.5	12.5	98.7
-18MT-36 Spot 34	59	16937	1.9	13.6216	1.1	1.6876	1.6	0.1698	1.2	0.72	994.4	10.8	1003.9	10.4	1024.5	23.1	1024.5	23.1	97.1
-18MT-36 Spot 117	68	16735	1.7	13.6045	0.9	1.7311	1.2	0.1709	0.8	0.69	1017.0	7.6	1020.2	7.6	1027.0	17.4	1027.0	17.4	99.0
-18MT-36 Spot 238	139	63194	3.9	13.5966	0.8	1.7494	1.2	0.1723	0.9	0.76	1024.7	8.8	1025.8	7.9	1028.2	16.0	1028.2	16.0	99.7
-18MT-36 Spot 239	127	268153	2.5	13.5930	0.7	1.6493	1.3	0.1627	1.1	0.82	971.6	9.7	989.3	8.3	1028.7	15.1	1028.7	15.1	94.4
-18MT-36 Spot 191	165	28150	2.0	13.5891	0.7	1.8195	1.1	0.1794	0.9	0.78	1063.7	8.3	1052.5	7.2	1029.3	13.9	1029.3	13.9	103.3
-18MT-36 Spot 274	1209	638059	5.6	13.5770	0.7	1.7386	1.2	0.1713	1.0	0.85	1019.1	9.9	1022.9	8.0	1031.1	13.3	1031.1	13.3	98.8
-18MT-36 Spot 254	190	1665710	3.8	13.5466	0.7	1.7191	1.2	0.1690	0.9	0.79	1006.4	8.5	1015.7	7.4	1035.6	14.4	1035.6	14.4	97.2
-18MT-36 Spot 118	133	115057	0.9	13.5461	0.7	1.6410	1.3	0.1613	1.2	0.86	983.9	10.3	988.1	8.5	1035.9	14.1	1035.9	14.1	93.1
-18MT-36 Spot 217	498	1346157	23.3	13.5189	0.8	1.7271	1.2	0.1694	1.0	0.85	1008.7	9.6	1018.7	7.7	1040.1	12.8	1040.1	12.8	97.0
-18MT-36 Spot 80	348	125199	1.6	13.4986	0.7	1.7816	1.3	0.1725	1.1	0.86	1026.1	10.9	1031.4	8.7	1042.8	14.0	1042.8	14.0	98.4
-18MT-36 Spot 144	57	12469	2.0	13.4618	1.3	1.8079	1.7	0.1786	1.1	0.84	1048.3	10.5	1048.3	11.1	1048.4	26.5	1048.4	26.5	100.0
-18MT-36 Spot 211	435	143595	8.2	13.4530	0.5	1.8454	1.1	0.1801	1.0	0.88	1067.7	9.6	1061.8	7.3	1049.7	10.7	1049.7	10.7	101.7
-18MT-36 Spot 129	813	370571	10.7	13.4523	0.7	1.7756	1.1	0.1733	0.9	0.80	1030.4	8.3	1036.6	7.1	1049.8	13.2	1049.8	13.2	98.2
-18MT-36 Spot 207	43	20676	0.8	13.4488	1.1	1.8586	1.5	0.1814	1.1	0.71	1074.5	10.8	1066.5	10.1	1050.3	21.8	1050.3	21.8	102.3
-18MT-36 Spot 197	92	64459	2.7	13.4455	0.9	1.7750	1.2	0.1732	0.9	0.70	1029.5	8.3	1036.3	8.0	1050.8	17.6	1050.8	17.6	98.0
-18MT-36 Spot 284	46	47185	1.1	13.4361	1.1	1.6993	1.6	0.1657	1.2	0.75	988.2	11.1	1008.3	10.3	1052.2	21.4	1052.2	21.4	93.9
-18MT-36 Spot 176	68	38202	2.5	13.4030	0.8	1.8393	1.3	0.1789	1.0	0.78	1060.8	10.2	1059.6	8.7	1057.2	16.7	1057.2	16.7	100.3
-18MT-36 Spot 64	113	509167	0.7	13.3623	0.8	1.8390	1.1	0.1783	0.8	0.70	1057.7	7.5	1059.5	7.3	1063.3	16.0	1063.3	16.0	99.5
-18MT-36 Spot 248	339	174588	2.7	13.3618	0.5	1.8539	1.1	0.1797	1.0	0.90	1065.5	10.2	1064.8	7.6	1063.4	9.8	1063.4	9.8	100.2
-18MT-36 Spot 175	422	223995	2.1	13.3302	0.5	1.8544	1.2	0.1794	1.1	0.91	1063.5	10.8	1065.0	8.0	1068.1	10.0	1068.1	10.0	99.9
-18MT-36 Spot 200	45	16076	1.4	13.3081	1.0	1.7753	1.3	0.1714	0.9	0.69	1020.0	9.7	1036.5	8.7	1071.5	19.3	1071.5	19.3	95.2
-18MT-36 Spot 172	285	89357	47.8	13.3017	0.6	1.8669	1.1	0.1802	0.9	0.84	1068.0	9.1	1069.4	7.2	1072.4	11.8	1072.4	11.8	99.6
-18MT-36 Spot 264	105	47949	1.8	13.2959	0.7	1.8182	1.1	0.1751	0.9	0.75	1040.3	8.3	1051.0	7.4	1073.3	14.7	1073.3	14.7	98.9
-18MT-36 Spot 59	181	288325	1.9	13.2931	0.7	1.8921	1.1	0.1825	0.9	0.80	1080.6	8.8	1078.3	7.4	1073.7	13.5	1073.7	13.5	100.8
-18MT-36 Spot 136	52	21337	1.4	13.2910	0.9	1.8101	1.2	0.1746	0.9	0.69	1037.2	8.2	1049.1	8.1	1074.0	16.2	1074.0	16.2	96.6
-18MT-36 Spot 103	164	32629	2.6	13.2799	0.9	1.8353	1.2	0.1805	0.8	0.70	1102.3	8.6	1093.4	8.0	1075.7	17.2	1075.7	17.2	102.5
-18MT-36 Spot 182	151	88925	0.9	13.2731	0.7	1.8782	1.3	0.1809	1.1	0.84	1071.8	10.6	1073.4	8.5	1076.7	13.7	1076.7	13.7	99.5
-18MT-36 Spot 5	69	90554	1.4	13.2731	1.0	1.8235	1.3	0.1756	0.8	0.66	1043.0	8.1	1053.9	8.4	1076.7	19.4	1076.7	19.4	96.9
-18MT-36 Spot 42	131	76346	2.0	13.2528	0.9	1.8072	1.2	0.1738	0.7	0.62	1032.9	7.0	1048.1	7.7	1079.8	18.4	1079.8	18.4	95.7
-18MT-36 Spot 139	41	50212	1.3	13.2076	1.1	1.8718	1.5	0.1794	1.0	0.88	1063.6	9.9	1071.2	9.9	1086.6	22.0	1086.6	22.0	97.9
-18MT-36 Spot 107	56	10446	0.9	13.1982	0.9	1.9643	1.4	0.1881	1.2	0.80	1111.1	11.8	1103.4	9.7	1088.1	17.5	1088.1	17.5	102.1
-18MT-36 Spot 133	15	10655	1.4	13.1522	1.5	1.7949	1.9	0.1713	1.1	0.57	1019.2	10.1	1043.6	12.3	1095.1	31.0	1095.1	31.0	93.1
-18MT-36 Spot 79	125	93598	2.3	13.1482	0.6	1.8948	0.9	0.1808	0.7	0.76	1071.2	6.9	1079.3	6.1	1095.7	11.9	1095.7	11.9	97.8
-18MT-36 Spot 292	294	43734	2.0	13.1330	0.8	1.5978	1.2	0.1523	1.1	0.88	913.6	9.1	969.4	7.8	1098.0	11.6	1098.0	11.6	83.2
-18MT-36 Spot 8	77	53385	1.6	13.1319	0.8	1.6211	1.2	0.1735	0.9	0.74	1031.5	8.6	1053.1	8.0	1098.2	16.3	1098.2	16.3	93.9
-18MT-36 Spot 240	376	124417	1.5	13.1120	0.6	1.9561	1.3	0.1861	1.1	0.89	1100.2	11.3	1100.6	8.5	1101.2	11.7	1101.2	11.7	99.9
-18MT-36 Spot 199	265	808807	0.9	13.1083	0.6	1.9192	1.2	0.1825	1.0	0.86	1080.8	10.0	1087.8	7.8	1101.7	11.9	1101.7	11.9	98.1
-18MT-36 Spot 52	178	209701	2.9	13.1011	0.7	1.9883	1.2	0.1871	1.0	0.80	1105.7	9.8	1104.7	8.1	1102.9	14.5	1102.9	14.5	100.3
-18MT-36 Spot 246	134	45796	1.3	13.0892	0.7	1.8885	1.0	0.1889	0.8	0.76	1115.2	8.0	1111.6	6.9	1104.7	13.2	1104.7	13.2	100.9
-18MT-36 Spot 85	35	16494	1.4	13.0782	1.3	1.8938	1.5	0.1797	0.8	0.52	1065.4	7.9	1078.9	10.2	1106.3	26.1	1106.3	26.1	99.3
-18MT-36 Spot 252	58	15230	1.6	13.0126	1.0	1.9021	1.3	0.1796	0.9	0.69	1064.8	8.9	1081.8						

-18MT-36 Spot 81	632	422440	1.7	11.6890	0.5	2.6623	1.2	0.2258	1.1	0.91	1312.4	12.8	1318.1	8.8	1327.2	9.6	1327.2	9.6	98.9
-18MT-36 Spot 48	265	4851513	1.3	11.6263	0.5	2.6348	0.8	0.2223	0.6	0.79	1293.9	7.2	1310.4	5.7	1337.6	9.2	1337.6	9.2	98.7
-18MT-36 Spot 209	40	40214	2.0	11.5042	0.9	2.7230	1.3	0.2273	0.9	0.70	1320.3	10.4	1334.7	9.3	1358.0	17.2	1358.0	17.2	97.2
-18MT-36 Spot 244	262	56691	2.9	11.4384	0.5	2.7740	1.2	0.2302	1.1	0.90	1335.7	13.5	1348.6	9.3	1369.0	10.6	1369.0	10.6	97.6
-18MT-36 Spot 82	174	88006	3.7	11.4335	0.7	2.8721	1.1	0.2383	0.9	0.78	1377.7	10.7	1374.6	8.4	1369.8	13.5	1369.8	13.5	100.8
-18MT-36 Spot 301	515	349124	6.2	11.4109	0.6	2.7919	1.3	0.2312	1.1	0.89	1340.5	13.5	1353.4	9.3	1373.7	11.0	1373.7	11.0	97.6
-18MT-36 Spot 251	73	127033	6.2	11.3293	0.9	2.9383	1.4	0.2416	1.1	0.76	1395.1	13.4	1392.1	10.6	1387.4	17.4	1387.4	17.4	100.6
-18MT-36 Spot 299	169	49127	2.3	11.2800	0.6	2.9143	1.1	0.2385	1.0	0.86	1379.0	12.2	1385.6	8.6	1395.8	11.2	1395.8	11.2	98.8
-18MT-36 Spot 15	227	644608	2.4	11.2627	0.6	2.7025	1.8	0.2208	1.7	0.95	1286.3	19.5	1329.1	13.1	1368.7	10.9	1368.7	10.9	92.0
-18MT-36 Spot 46	315	66589	1.4	11.1137	0.5	2.9893	1.3	0.2411	1.2	0.93	1392.2	15.3	1404.9	10.0	1424.2	9.3	1424.2	9.3	97.8
-18MT-36 Spot 228	170	77857	3.1	11.0993	0.7	3.0150	1.2	0.2428	0.9	0.79	1401.3	11.9	1411.4	9.2	1426.7	14.3	1426.7	14.3	98.2
-18MT-36 Spot 170	223	90514	2.0	11.0261	0.6	3.1416	1.2	0.2513	1.0	0.87	1445.4	13.5	1442.9	9.2	1439.3	11.1	1439.3	11.1	100.4
-18MT-36 Spot 241	156	115278	1.4	11.0222	0.7	3.0916	1.0	0.2472	0.7	0.73	1424.3	9.1	1430.6	7.5	1440.0	12.8	1440.0	12.8	98.9
-18MT-36 Spot 87	277	658983	0.4	10.9981	0.5	3.1870	1.1	0.2543	0.9	0.87	1460.7	12.2	1454.0	8.3	1444.2	10.2	1444.2	10.2	101.1
-18MT-36 Spot 297	256	191864	2.4	10.8992	0.8	3.1480	1.1	0.2490	0.9	0.85	1433.5	11.9	1444.8	8.3	1461.4	10.8	1461.4	10.8	98.1
-18MT-36 Spot 181	308	65037	2.1	10.8852	0.7	3.2178	1.2	0.2541	0.9	0.78	1459.9	12.2	1461.5	9.2	1463.8	14.1	1463.8	14.1	99.7
-18MT-36 Spot 249	216	202788	2.0	10.8775	0.6	3.2071	1.0	0.2531	0.8	0.80	1454.5	10.2	1458.9	7.6	1465.2	11.1	1465.2	11.1	99.3
-18MT-36 Spot 294	288	103217	0.9	10.8661	0.6	3.2939	1.2	0.2597	1.1	0.86	1488.3	14.0	1479.6	9.6	1467.2	12.0	1467.2	12.0	101.4
-18MT-36 Spot 72	166	114304	2.0	10.8628	0.5	3.2047	1.1	0.2526	0.9	0.86	1451.8	12.1	1458.3	8.3	1467.7	10.4	1467.7	10.4	98.9
-18MT-36 Spot 256	38	16294	1.7	10.8279	1.0	3.3563	1.3	0.2636	0.9	0.67	1508.3	11.5	1494.0	10.0	1473.8	18.0	1473.8	18.0	102.3
-18MT-36 Spot 43	252	5522720	3.2	10.7703	0.7	3.3568	1.2	0.2623	1.0	0.83	1501.7	13.4	1494.4	9.4	1483.9	12.6	1483.9	12.6	101.2
-18MT-36 Spot 91	394	93882	2.9	10.7095	0.6	3.2582	1.1	0.2532	0.9	0.80	1454.9	11.2	1471.1	8.3	1494.7	12.1	1494.7	12.1	97.3
-18MT-36 Spot 121	545	502230	1.0	10.7067	0.6	3.4003	1.3	0.2642	1.2	0.90	1511.1	16.4	1504.5	10.6	1495.2	11.0	1495.2	11.0	101.1
-18MT-36 Spot 148	161	254727	2.7	10.6907	0.5	3.3608	0.9	0.2607	0.7	0.79	1493.4	9.0	1495.3	6.7	1498.0	10.1	1498.0	10.1	99.7
-18MT-36 Spot 162	632	793074	1.7	10.6872	0.6	3.4195	1.2	0.2652	1.0	0.85	1516.2	13.8	1508.9	9.4	1498.6	11.9	1498.6	11.9	101.2
-18MT-36 Spot 89	451	409455	1.9	10.6769	0.6	3.3651	1.0	0.2607	0.8	0.82	1493.4	11.2	1496.3	8.0	1500.4	10.9	1500.4	10.9	99.5
-18MT-36 Spot 89	319	94195	2.3	10.6435	0.5	3.3044	1.0	0.2552	0.9	0.85	1465.2	11.3	1482.1	7.9	1506.3	10.0	1506.3	10.0	97.3
-18MT-36 Spot 270	332	1046838	1.9	10.5851	0.8	3.1537	1.2	0.2422	1.1	0.89	1398.2	13.5	1445.9	9.3	1516.7	10.4	1516.7	10.4	92.2
-18MT-36 Spot 234	357	132422	2.0	10.4869	0.8	2.9703	1.3	0.2280	1.2	0.90	1313.6	13.9	1400.1	9.9	1534.3	10.5	1534.3	10.5	85.6
-18MT-36 Spot 212	94	73293	1.6	10.4033	0.8	3.4272	1.4	0.2602	1.1	0.83	1490.9	15.3	1510.7	10.9	1538.5	14.6	1538.5	14.6	98.9
-18MT-36 Spot 115	414	175778	0.9	10.1468	0.6	3.7115	0.9	0.2733	0.7	0.78	1557.3	9.9	1573.9	7.3	1596.1	10.6	1596.1	10.6	97.6
-18MT-36 Spot 124	78	208126	1.7	10.1020	0.7	3.8198	1.2	0.2800	0.9	0.78	1591.3	12.8	1586.9	9.3	1604.4	13.4	1604.4	13.4	99.2
-18MT-36 Spot 21	116	52252	7.0	10.0521	0.6	3.8116	0.9	0.2883	0.6	0.68	1618.0	8.4	1616.1	7.0	1613.6	11.7	1613.6	11.7	100.3
-18MT-36 Spot 39	81	26671	1.3	9.9821	0.7	4.0208	1.2	0.2912	1.0	0.81	1647.6	14.4	1638.4	10.0	1626.6	13.4	1626.6	13.4	101.3
-18MT-36 Spot 228	138	224724	1.3	9.9819	0.6	3.9409	1.1	0.2854	0.9	0.80	1618.6	12.4	1622.1	8.8	1626.6	12.1	1626.6	12.1	99.3
-18MT-36 Spot 195	877	55812	9.8	9.9749	0.7	3.1185	1.4	0.2257	1.2	0.88	1311.9	14.1	1437.3	10.4	1627.9	12.2	1627.9	12.2	80.6
-18MT-36 Spot 253	279	71888	2.1	9.9693	0.6	3.9462	1.2	0.2857	1.1	0.89	1619.8	15.5	1623.8	9.9	1629.0	10.4	1629.0	10.4	99.4
-18MT-36 Spot 229	174	69370	1.2	9.9636	0.5	3.9664	1.0	0.2899	0.9	0.85	1636.1	12.8	1633.5	8.5	1630.0	10.1	1630.0	10.1	100.4
-18MT-36 Spot 242	245	549052	4.1	9.9622	0.6	3.9314	1.2	0.2842	1.0	0.85	1612.4	14.7	1620.2	9.8	1630.3	11.7	1630.3	11.7	95.9
-18MT-36 Spot 143	177	47035	3.3	9.9576	0.6	4.0812	1.1	0.2934	0.9	0.84	1656.6	13.5	1646.5	8.9	1631.2	11.0	1631.2	11.0	101.7
-18MT-36 Spot 60	36	37802	1.6	9.9442	0.9	3.8981	1.3	0.2813	0.9	0.71	1597.7	13.3	1613.3	10.6	1633.7	17.1	1633.7	17.1	97.8
-18MT-36 Spot 231	180	92229	1.9	9.9305	0.6	4.0379	0.9	0.2909	0.8	0.80	1646.3	11.0	1641.9	7.6	1636.2	10.3	1636.2	10.3	100.8
-18MT-36 Spot 153	351	260852	6.3	9.9059	0.7	4.0452	1.2	0.2908	1.0	0.82	1645.3	14.6	1643.3	10.0	1640.8	13.1	1640.8	13.1	100.3
-18MT-36 Spot 233	343	1418058	1.9	9.9036	0.7	4.0137	1.3	0.2894	1.1	0.85	1633.6	15.9	1637.0	10.6	1641.3	12.8	1641.3	12.8	99.5
-18MT-36 Spot 198	137	74002	1.1	9.9009	0.6	4.0188	1.1	0.2898	0.9	0.82	1635.4	12.9	1638.2	8.8	1641.8	11.4	1641.8	11.4	99.6
-18MT-36 Spot 19	241	524344	1.5	9.8952	0.6	4.0816	1.3	0.2931	1.2	0.87	1658.8	16.8	1650.6	10.7	1642.8	11.9	1642.8	11.9	100.8
-18MT-36 Spot 186	212	100921	1.2	9.8945	0.7	3.9858	1.2	0.2881	1.0	0.82	1622.3	14.1	1631.3	9.7	1643.0	12.7	1643.0	12.7	98.7
-18MT-36 Spot 293	168	76786	1.1	9.8923	0.6	3.9239	1.2	0.2816	1.0	0.87	1599.7	14.2	1618.6	9.3	1643.4	10.5	1643.4	10.5	97.3
-18MT-36 Spot 28	235	80722	1.2	9.8825	0.5	3.9507	1.0	0.2833	0.9	0.86	1607.9	12.4	1624.1	8.3	1645.2	9.7	1645.2	9.7	97.7
-18MT-36 Spot 213	240	174464	1.8	9.8704	0.6	4.0538	1.1	0.2903	0.9	0.82	1643.1	13.6	1645.1	9.3	1647.5	12.0	1647.5	12.0	99.7
-18MT-36 Spot 104	494	163169	1.4	9.8646	0.6	3.7999	1.1	0.2720	0.9	0.85	1550.8	13.0	1562.7	8.9	1648.6	10.7	1648.6	10.7	94.1
-18MT-36 Spot 77	144	858707	4.7	9.8477	0.6	3.9803	1.0	0.2830	0.7	0.77	1608.3	10.4	1626.1	7.7	1651.8	11.3	1651.8	11.3	97.2
-18MT-36 Spot 132	306	315030	1.1	9.8258	0.6	4.0860	1.0	0.2902	0.8	0.80	1642.4	11.4	1648.1	8.0	1655.4	10.9	1655.4	10.9	99.2
-18MT-36 Spot 88	343	254708	2.7	9.8249	0.6	4.0369	1.4	0.2878	1.2	0.90	1630.4	17.7	1641.7	11.1	1656.0	11.2	1656.0	11.2	95.5
-18MT-36 Spot 278	34	24288	2.7	9.8199	0.9	3.9514	1.4	0.2815	1.1	0.76	1599.2	15.3	1624.3	11.5	1657.0	17.0	1657.0	17.0	95.5
-18MT-36 Spot 163	523	549899	0.9	9.7879	0.5	4.0570	1.3	0.2881	1.2	0.92	1632.2	17.6	1645.7	10.9	1663.0	9.9	1663.0	9.9	95.1
-18MT-36 Spot 307	970	241783	2.5	9.7727	0.8	3.9873	1.0	0.2813	0.8	0.79	1598.0	11.3	1627.5	8.2	1665.9	11.6	1665.9	11.6	95.9
-18MT-36 Spot 62	588	305870	2.1	9.7367	0.6	3.8900	1.5	0.2748	1.4	0.91	1565.2	19.3	1611.6	12.3	1672.7	11.5	1672.7	11.5	93.6
-18MT-36 Spot 111	202	357836	2.6	9.7186	0.7	4.1653	1.1	0.2937	0.9	0.77	1680.1	12.6	1687.2	9.2	1676.2	13.2	1676.2	13.2	99.0
-18MT-36 Spot 3	454	213969	2.6	9.5589	0.6	3.9887	1.4	0.2863	1.3	0.92	1532.3	17.9	1607.2	11.5	1706.7	9.3	1706.7	9.3	89.8
-18MT-36 Spot 183	383	107811	5.0	9.5441	0.5	4.4049	1.2	0.3050	1.1	0.91	1718.3	16.9	1713.3	10.2	1709.6	9.8	1709.6	9.8	100.4
-18MT-36 Spot 128	138																		

-18MT-36 Spot 32	130	89032	1.4	8.9416	0.5	4.9715	1.1	0.3225	0.9	0.88	1802.2	14.7	1814.5	9.0	1828.7	9.1	1828.7	9.1	98.6
-18MT-36 Spot 184	377	162458	1.4	8.6996	0.5	5.0275	1.1	0.3246	1.0	0.88	1812.4	15.4	1824.0	9.4	1837.2	9.5	1837.2	9.5	98.6
-18MT-36 Spot 68	37	52556	1.7	8.8975	1.0	4.7055	1.6	0.3035	1.3	0.78	1708.4	18.9	1767.3	13.4	1837.6	18.0	1837.6	18.0	93.0
-18MT-36 Spot 69	179	55185	2.0	8.8910	0.5	5.1204	1.0	0.3303	0.8	0.84	1840.0	13.2	1839.5	8.3	1839.0	9.8	1839.0	9.8	100.1
-18MT-36 Spot 166	199	106970	2.6	8.8619	0.5	5.1548	1.1	0.3315	1.0	0.88	1845.4	16.0	1845.2	9.6	1844.9	9.8	1844.9	9.8	100.0
-18MT-36 Spot 155	252	368132	0.9	8.8513	0.6	5.3158	1.3	0.3414	1.2	0.87	1893.4	19.0	1871.4	11.3	1847.1	11.6	1847.1	11.6	102.5
-18MT-36 Spot 179	88	26541	1.3	8.8255	0.7	5.0456	1.3	0.3231	1.1	0.85	1804.9	17.1	1827.0	10.9	1852.3	12.2	1852.3	12.2	97.4
-18MT-36 Spot 125	189	60517	1.0	8.8206	0.7	5.1784	1.2	0.3314	1.0	0.83	1845.3	15.7	1849.1	10.1	1853.3	11.9	1853.3	11.9	99.6
-18MT-36 Spot 271	280	130513	2.9	8.7907	0.8	5.0360	1.4	0.3212	1.2	0.84	1795.6	18.3	1825.4	11.8	1859.5	13.6	1859.5	13.6	96.6
-18MT-36 Spot 208	239	175366	1.5	8.7811	0.6	5.0886	1.2	0.3242	1.0	0.86	1810.3	15.9	1834.2	9.9	1861.5	10.7	1861.5	10.7	97.3
-18MT-36 Spot 247	102	112207	2.0	8.7630	0.7	5.2255	1.1	0.3323	0.8	0.78	1849.3	12.8	1856.8	9.0	1865.2	12.4	1865.2	12.4	99.1
-18MT-36 Spot 186	37	28822	2.0	8.7588	0.8	5.4474	1.3	0.3462	1.0	0.77	1916.4	16.2	1862.4	10.8	1866.0	14.4	1866.0	14.4	102.7
-18MT-36 Spot 12	126	115678	0.9	8.7423	0.6	5.3216	1.2	0.3376	1.0	0.83	1874.9	15.8	1872.3	9.9	1869.4	11.5	1869.4	11.5	100.3
-18MT-36 Spot 223	210	46606	1.9	8.7363	0.5	5.1877	1.1	0.3288	1.0	0.88	1832.8	15.8	1850.6	9.6	1870.7	9.9	1870.7	9.9	98.0
-18MT-36 Spot 312	204	265950	1.3	8.6385	0.6	5.3388	1.5	0.3346	1.3	0.90	1860.9	21.2	1875.1	12.4	1891.0	11.3	1891.0	11.3	95.4
-18MT-36 Spot 159	171	298933	2.3	8.6300	0.7	5.4086	1.2	0.3385	1.0	0.80	1879.7	15.8	1885.9	10.4	1892.7	13.2	1892.7	13.2	99.3
-18MT-36 Spot 65	114	35150	0.9	8.6235	0.7	5.4291	1.3	0.3397	1.1	0.84	1885.2	17.8	1889.5	11.1	1894.1	12.8	1894.1	12.8	99.5
-18MT-36 Spot 277	499	249618	3.8	8.6102	0.6	5.5185	1.4	0.3446	1.3	0.91	1908.9	21.1	1903.2	12.1	1890.9	10.8	1890.9	10.8	100.0
-18MT-36 Spot 268	179	925700	1.7	8.5888	0.6	5.5176	1.1	0.3439	0.9	0.82	1905.2	14.8	1903.3	9.5	1901.3	11.4	1901.3	11.4	100.2
-18MT-36 Spot 290	124	433606	0.9	8.5843	0.6	5.5488	1.0	0.3448	0.8	0.79	1909.7	12.8	1908.2	8.4	1906.5	10.7	1906.5	10.7	100.2
-18MT-36 Spot 71	249	96106	2.7	8.5633	0.5	4.7119	1.0	0.2928	0.9	0.87	1655.4	13.3	1789.4	8.8	1906.7	9.3	1906.7	9.3	86.8
-18MT-36 Spot 74	580	2920098	2.0	8.5618	0.5	5.2322	1.3	0.3245	1.1	0.90	1811.6	17.9	1856.4	10.7	1907.0	9.7	1907.0	9.7	95.0
-18MT-36 Spot 102	428	101007	2.4	8.5511	0.6	5.1414	1.2	0.3190	1.0	0.87	1784.8	15.6	1843.0	9.8	1909.2	10.2	1909.2	10.2	93.5
-18MT-36 Spot 40	158	203154	1.8	8.5297	0.6	5.5389	1.0	0.3428	0.8	0.80	1900.1	12.7	1906.7	8.3	1913.7	10.3	1913.7	10.3	99.3
-18MT-36 Spot 95	57	802169	0.4	8.5083	0.6	5.2928	1.1	0.3268	1.0	0.85	1822.6	15.2	1867.7	9.6	1918.2	10.8	1918.2	10.8	95.0
-18MT-36 Spot 138	131	53875	1.1	8.4907	0.5	5.5451	1.0	0.3412	0.9	0.85	1892.5	13.9	1907.6	8.6	1924.1	9.3	1924.1	9.3	95.4
-18MT-36 Spot 188	31	17784	3.0	8.4757	0.7	5.6991	1.2	0.3505	1.0	0.80	1938.9	16.3	1931.2	10.5	1925.1	13.0	1925.1	13.0	100.8
-18MT-36 Spot 75	223	105181	1.8	8.4740	0.6	4.8391	1.0	0.2975	0.8	0.77	1679.1	11.1	1791.7	8.2	1925.5	11.1	1925.5	11.1	87.2
-18MT-36 Spot 96	904	309163	2.1	8.4694	0.6	5.0821	1.2	0.3123	1.0	0.86	1762.1	15.6	1833.1	10.0	1926.4	10.7	1926.4	10.7	90.9
-18MT-36 Spot 193	397	334933	1.5	8.4274	0.6	5.4983	1.4	0.3362	1.3	0.91	1888.4	21.2	1900.3	12.4	1935.4	10.9	1935.4	10.9	95.5
-18MT-36 Spot 295	77	40963	0.8	8.4124	0.8	5.7814	1.4	0.3529	1.1	0.80	1948.4	18.2	1943.6	11.7	1938.5	14.5	1938.5	14.5	100.5
-18MT-36 Spot 84	216	97510	2.8	8.4021	0.6	5.7847	1.1	0.3533	1.0	0.87	1950.2	16.8	1945.8	9.9	1940.7	10.0	1940.7	10.0	100.5
-18MT-36 Spot 259	136	54858	1.9	8.2816	0.6	5.6289	1.1	0.3381	0.9	0.85	1877.6	15.1	1920.2	9.4	1966.5	10.3	1966.5	10.3	95.5
-18MT-36 Spot 61	328	152888	2.8	8.2544	0.6	5.6680	1.1	0.3365	0.9	0.84	1884.1	15.0	1926.5	9.5	1972.4	10.7	1972.4	10.7	95.5
-18MT-36 Spot 112	349	162197	2.2	8.2326	0.6	6.0490	1.0	0.3613	0.8	0.81	1988.5	13.5	1982.9	8.5	1977.1	10.1	1977.1	10.1	100.0
-18MT-36 Spot 222	135	83756	1.8	8.2019	0.5	6.0317	1.1	0.3590	1.0	0.90	1977.2	16.3	1980.4	9.3	1983.8	8.4	1983.8	8.4	99.7
-18MT-36 Spot 49	142	1945285	2.4	8.1879	0.6	5.4808	0.9	0.3256	0.7	0.73	1817.1	10.8	1897.6	7.9	1986.8	11.2	1986.8	11.2	91.5
-18MT-36 Spot 137	44	81623	2.2	8.1498	0.8	6.0917	1.4	0.3602	1.2	0.85	1983.2	21.0	1989.1	12.6	1995.1	13.6	1995.1	13.6	99.4
-18MT-36 Spot 30	172	420068	1.9	8.1102	0.7	6.0787	1.3	0.3577	1.1	0.83	1971.3	18.7	1987.2	11.5	2003.7	13.0	2003.7	13.0	95.4
-18MT-36 Spot 123	306	7003	8.2	8.0649	0.7	5.0588	1.2	0.2960	1.0	0.85	1671.6	15.3	1829.2	10.5	2013.7	11.7	2013.7	11.7	83.0
-18MT-36 Spot 13	25	12947	1.1	7.9820	1.1	6.3843	1.7	0.3688	1.3	0.75	2022.8	21.8	2027.4	14.6	2032.0	19.5	2032.0	19.5	99.5
-18MT-36 Spot 23	157	201022	3.3	7.9686	0.6	6.2002	1.0	0.3585	0.9	0.85	1975.0	14.7	2004.5	8.8	2035.0	9.3	2035.0	9.3	97.1
-18MT-36 Spot 83	626	296029	1.4	7.9662	0.6	6.0351	1.3	0.3498	1.1	0.87	1929.0	19.1	1980.9	11.4	2035.5	11.3	2035.5	11.3	94.8
-18MT-36 Spot 224	87	239438	1.5	7.8387	0.6	6.8381	1.2	0.3718	1.1	0.89	2037.7	18.9	2051.0	10.7	2084.5	9.9	2084.5	9.9	98.7
-18MT-36 Spot 237	81	67736	1.3	7.7791	0.6	6.5987	1.2	0.3723	1.0	0.88	2040.4	18.3	2058.9	10.4	2077.4	9.7	2077.4	9.7	98.2
-18MT-36 Spot 201	65	44402	1.2	7.6728	0.6	6.8395	1.2	0.3908	1.0	0.86	2079.9	18.1	2090.8	10.4	2101.6	10.4	2101.6	10.4	99.0
-18MT-36 Spot 122	16	15131	1.4	7.5394	1.2	6.7043	1.6	0.3667	1.1	0.69	2013.9	19.3	2037.2	14.4	2132.6	20.8	2132.6	20.8	94.4
-18MT-36 Spot 11	217	586155	1.8	6.4794	0.6	6.5039	1.0	0.4468	0.9	0.82	2381.1	17.0	2379.9	9.5	2393.8	10.1	2393.8	10.1	99.5
-18MT-36 Spot 177	102	95795	1.3	6.4530	0.6	6.2346	1.2	0.4324	1.1	0.89	2318.4	21.2	2361.5	11.3	2400.7	9.6	2400.7	9.6	95.5
-18MT-36 Spot 116	72	116950	1.7	6.3152	0.6	6.8050	1.1	0.4493	0.9	0.84	2392.1	17.6	2416.6	9.7	2437.3	9.8	2437.3	9.8	98.1
-18MT-36 Spot 306	49	88698	0.7	6.2727	0.6	6.4619	1.1	0.4306	1.0	0.86	2308.6	19.0	2383.9	10.4	2448.8	9.7	2448.8	9.7	94.3
-18MT-36 Spot 141	124	131080	0.5	6.0933	0.5	10.4068	0.8	0.4601	0.7	0.81	2440.0	13.4	2471.7	7.5	2497.7	8.0	2497.7	8.0	97.7
-18MT-36 Spot 173	200	88085	1.2	5.9689	0.5	10.4025	1.1	0.4505	1.0	0.89	2397.6	20.2	2471.3	10.5	2532.4	8.5	2532.4	8.5	94.7
-18MT-36 Spot 109	217	109761	1.0	5.8797	0.7	11.4312	1.3	0.4577	1.1	0.82	2560.6	22.8	2559.0	12.2	2567.6	12.5	2567.6	12.5	100.1
-18MT-36 Spot 313	25	12354	1.7	5.8106	0.8	11.1036	1.1	0.4681	0.8	0.71	2475.4	15.8	2531.9	10.0	2577.4	12.5	2577.4	12.5	96.0
-18MT-36 Spot 158	111	275047	1.2	5.7715	0.6	11.4040	1.2	0.4776	1.0	0.88	2516.7	21.5	2556.8	11.0	2588.7	9.4	2588.7	9.4	97.2
-18MT-36 Spot 288	172	298985	0.4	5.7362	0.7	11.5261	1.3	0.4797	1.1	0.84	2526.1	23.4	2566.7	12.4	2598.9	11.8	2598.9	11.8	97.2
-18MT-36 Spot 285	90	75195	1.0	5.7304	0.5	11.3433	1.0	0.4716	0.9	0.89	2490.7	18.7	2551.8	9.5	2600.6	7.9	2600.6	7.9	95.8
-18MT-36 Spot 27	207	249898	4.9	5.6984	0.6	12.0582	1.0	0.4988	0.8	0.81	2607.6	17.1	2608.9	9.2	2609.9	9.5	2609.9	9.5	99.9
-18MT-36 Spot 134	35	50139	1.4	5.6851	0.4	10.8603	1.4	0.4382	1.1	0.82	2342.5	22.5	2494.0	12.9	2619.7	13.1	2619.7	13.1	89.4
-18MT-36 Spot 119	27	33818	0.4	5.6594	0.9	12.2339	1.4	0.4934	1.0	0.75	2565.4	22.0	2622.5	12.9	2651.3	15.1	2651.3	15.1	97.5
-18MT-36 Spot 120	605	228480	1.2	5.5158	0.7	11.161													

-18MT-36 Spot 35	162	147246	1.1	4.6038	0.5	17.0182	1.0	0.5686	0.8	0.94	2901.6	18.8	2935.9	9.1	2959.4	8.3	2959.4	8.3	98.0		
-18MT-36 Spot 181	417	107216	1.1	4.5963	0.5	16.4938	1.2	0.5501	1.1	0.91	2825.4	25.8	2905.9	11.8	2982.1	8.1	2982.1	8.1	95.4		
-18MT-36 Spot 196	47	97819	1.4	4.5469	0.6	18.0313	1.0	0.5949	0.8	0.81	3009.2	19.9	2991.4	9.9	2979.5	9.7	2979.5	9.7	101.0		
-18MT-36 Spot 94	83	104829	1.2	4.4171	0.6	18.2726	1.1	0.5856	0.9	0.85	2971.7	21.2	3004.2	10.1	3026.0	9.0	3026.0	9.0	98.2		
-18MT-36 Spot 214	335	235666	1.7	4.3235	0.5	18.9342	1.2	0.5940	1.0	0.89	3005.5	24.7	3038.5	11.2	3030.3	8.5	3060.3	8.5	98.2		
-18MT-36 Spot 272	474	343669	23.7	3.8774	0.5	21.5625	1.2	0.6066	1.0	0.89	3056.5	25.5	3164.2	11.5	3233.2	8.6	3233.2	8.6	94.5		
-18MT-36 Spot 180	769	1073685	2.7	3.6125	0.6	22.8265	1.3	0.5983	1.2	0.88	3023.1	28.1	3219.6	12.8	3344.4	9.6	3344.4	9.6	90.4		
-18MT-36 Spot 36	176	517621	1.6	3.1292	0.7	30.5800	1.3	0.6943	1.0	0.82	3399.1	27.2	3505.6	12.3	3567.1	11.0	3567.1	11.0	95.3		
AC-10 (Ashbough Canyon, limestone cgl.) U-Pb geochronologic analyses.																					
						Isotope ratios					Apparent ages (Ma)										
Analysis	U	206Pb	U/Th	206Pb*	±	207Pb*	±	208Pb*	±	error	206Pb*	±	207Pb*	±	208Pb*	±	Best age	±	Conc		
	(ppm)	204Pb		207Pb*	(%)	235U*	(%)	238U	(%)	corr.	238U*	(Ma)	235U	(Ma)	207Pb*	(Ma)	(Ma)	(Ma)	(%)		
-AC-10 Spot 119	385	3877	6.5	22.9907	2.0	0.0653	2.3	0.0105	1.3	0.55	67.1	0.9	64.3	1.5	NA	NA	67.1	0.9	NA		
-AC-10 Spot 5	2619	8053	0.7	20.1623	1.3	0.0756	1.7	0.0111	1.1	0.64	70.9	0.8	74.0	1.2	175.1	31.2	70.9	0.8	NA		
-AC-10 Spot 72	919	3215	1.6	21.6919	1.5	0.0706	2.0	0.0111	1.3	0.63	71.3	0.9	69.3	1.3	1.8	37.3	71.3	0.9	NA		
-AC-10 Spot 58	310	10646	2.5	20.5724	2.6	0.0751	2.8	0.0112	1.0	0.35	71.8	0.7	73.5	2.0	128.0	61.7	71.8	0.7	NA		
-AC-10 Spot 158	573	3044	2.7	21.9106	1.8	0.0705	1.8	0.0112	0.9	0.48	71.9	0.6	69.2	1.2	NA	NA	71.9	0.6	NA		
-AC-10 Spot 177	553	8275	1.6	20.2414	2.0	0.0768	2.4	0.0113	1.3	0.55	72.3	1.0	75.1	1.7	168.0	46.8	72.3	1.0	NA		
-AC-10 Spot 212	299	42846	1.4	20.3977	1.9	0.0768	2.2	0.0114	1.2	0.54	72.9	0.9	75.2	1.6	148.0	44.2	72.9	0.9	NA		
-AC-10 Spot 110	1174	19494	0.6	20.4559	1.5	0.0771	2.2	0.0114	1.5	0.70	73.4	1.1	75.4	1.6	141.3	36.2	73.4	1.1	NA		
-AC-10 Spot 266	93	1587	1.4	25.4954	12.4	0.0632	12.5	0.0117	1.7	0.13	74.9	1.2	62.2	7.5	NA	NA	74.9	1.2	NA		
-AC-10 Spot 151	1003	5303	1.5	21.4668	1.6	0.0776	1.9	0.0121	1.0	0.53	77.5	0.8	75.9	1.4	26.9	38.1	77.5	0.8	NA		
-AC-10 Spot 309	195	1033	1.4	22.9186	14.7	0.0730	14.8	0.0121	1.7	0.12	77.8	1.3	71.6	10.2	NA	NA	77.8	1.3	NA		
-AC-10 Spot 234	567	2940	1.7	22.3568	1.5	0.0758	2.0	0.0123	1.3	0.64	78.8	1.0	74.2	1.4	NA	NA	78.8	1.0	NA		
-AC-10 Spot 197	193	1233	2.3	24.3715	6.5	0.0684	6.6	0.0153	1.2	0.18	97.8	1.2	84.2	5.4	NA	NA	97.8	1.2	NA		
-AC-10 Spot 55	477	3798	2.8	21.4805	2.1	0.1118	2.3	0.0174	1.1	0.47	111.4	1.2	107.6	2.4	25.4	49.5	111.4	1.2	NA		
-AC-10 Spot 144	588	7091	1.0	18.7673	0.9	0.2818	1.4	0.0394	1.1	0.77	242.7	2.5	252.1	3.1	340.0	19.8	242.7	2.5	NA		
-AC-10 Spot 82	528	36196	1.2	18.0136	0.8	0.4804	1.2	0.0628	1.0	0.80	392.5	3.8	398.3	4.1	432.0	16.7	392.5	3.8	NA		
-AC-10 Spot 1	1336	50349	1.7	17.5397	0.7	0.5073	1.5	0.0646	1.3	0.88	403.3	5.0	416.6	5.0	491.1	15.3	403.3	5.0	82.1		
-AC-10 Spot 134	388	42099	1.7	19.9610	1.2	0.4967	1.5	0.0647	0.9	0.60	404.4	3.5	408.5	5.1	438.5	26.8	404.4	3.5	82.2		
-AC-10 Spot 112	698	11132	1.8	18.0642	0.9	0.5002	1.5	0.0657	1.2	0.81	410.0	4.8	411.8	5.1	422.0	19.6	410.0	4.8	97.2		
-AC-10 Spot 165	930	12260	1.3	16.5380	0.6	0.5511	1.3	0.0661	1.1	0.86	412.8	4.4	445.7	4.6	619.4	13.7	412.8	4.4	86.7		
-AC-10 Spot 146	340	193910	2.3	17.8649	0.8	0.5197	1.0	0.0674	0.7	0.67	420.3	2.9	425.0	3.6	450.4	17.2	420.3	2.9	93.3		
-AC-10 Spot 64	223	4065	1.2	18.9038	3.6	0.4933	3.7	0.0677	1.0	0.27	422.0	4.0	407.1	12.4	323.5	80.7	422.0	4.0	130.5		
-AC-10 Spot 298	1128	42905	2.1	18.0338	0.8	0.5205	1.4	0.0681	1.2	0.84	424.8	4.9	425.5	4.9	429.5	17.2	424.8	4.9	98.9		
-AC-10 Spot 113	262	17897	1.2	18.0062	0.9	0.5219	1.4	0.0682	1.1	0.77	425.2	4.4	426.4	4.8	432.9	19.6	425.2	4.4	98.2		
-AC-10 Spot 174	585	23333	1.0	17.9974	0.8	0.5248	1.4	0.0685	1.1	0.79	427.3	4.5	428.3	4.8	434.0	18.4	427.3	4.5	98.5		
-AC-10 Spot 306	913	151971	1.5	17.8134	0.8	0.5308	1.1	0.0686	0.9	0.75	427.8	3.5	432.4	4.0	456.9	16.8	427.8	3.5	93.6		
-AC-10 Spot 310	729	20513	1.0	17.9121	0.7	0.5307	1.5	0.0690	1.3	0.88	430.0	5.5	432.3	5.3	444.8	16.1	430.0	5.5	96.7		
-AC-10 Spot 178	678	13390	2.2	18.3379	0.8	0.5201	1.4	0.0692	1.1	0.83	431.4	4.8	425.2	4.8	392.1	17.5	431.4	4.8	110.0		
-AC-10 Spot 273	227	90688	2.4	17.7854	0.9	0.5376	1.3	0.0694	0.9	0.69	432.4	3.7	436.8	4.5	460.3	20.6	432.4	3.7	93.9		
-AC-10 Spot 61	830	377738	3.9	17.8547	0.7	0.6356	1.1	0.0694	0.9	0.79	432.5	3.7	435.5	4.0	451.7	15.4	432.5	3.7	95.7		
-AC-10 Spot 304	302	122601	1.2	17.7379	0.9	0.5477	1.4	0.0705	1.0	0.74	439.1	4.3	443.5	4.8	466.2	20.4	439.1	4.3	94.2		
-AC-10 Spot 99	443	48071	1.7	17.7721	0.8	0.5473	1.3	0.0706	1.0	0.79	439.6	4.4	443.2	4.7	462.0	17.9	439.6	4.4	95.2		
-AC-10 Spot 185	311	16575	1.3	18.2070	0.8	0.5431	1.3	0.0717	1.0	0.79	446.7	4.5	440.5	4.7	408.1	18.3	446.7	4.5	109.4		
-AC-10 Spot 125	242	7244	1.3	18.4863	1.3	0.5377	1.7	0.0721	1.1	0.64	449.0	4.7	436.9	6.0	374.0	29.2	449.0	4.7	120.1		
-AC-10 Spot 8	283	4113	1.2	16.0048	1.0	0.6247	1.4	0.0726	1.0	0.74	451.5	4.6	492.8	5.6	689.7	20.5	451.5	4.6	85.5		
-AC-10 Spot 207	679	337844	1.1	17.5526	0.8	0.5856	1.3	0.0746	1.0	0.80	463.7	4.6	468.0	4.8	489.5	17.0	463.7	4.6	94.7		
-AC-10 Spot 111	871	29097	1.7	17.7228	0.7	0.5884	1.4	0.0757	1.2	0.85	470.2	5.5	469.9	5.4	468.2	16.4	470.2	5.5	100.4		
-AC-10 Spot 143	79	2635	1.5	18.9201	1.8	0.5536	2.3	0.0760	1.4	0.63	472.2	6.6	447.4	8.3	321.6	40.2	472.2	6.6	146.8		
-AC-10 Spot 173	74	4800	1.2	17.7956	2.3	0.5952	2.5	0.0768	0.9	0.38	477.3	4.4	474.2	9.4	459.1	51.1	477.3	4.4	104.0		
-AC-10 Spot 305	152	26132	1.0	16.9359	1.2	0.6316	1.7	0.0776	1.3	0.74	481.8	6.0	497.1	6.9	567.9	25.5	481.8	6.0	84.8		
-AC-10 Spot 267	162	7892	1.7	17.6668	1.2	0.6061	1.5	0.0777	0.9	0.59	482.4	4.1	481.1	5.7	475.2	26.3	482.4	4.1	101.5		
-AC-10 Spot 45	223	8941	1.2	17.3014	1.1	0.6210	1.6	0.0780	1.1	0.70	483.9	5.1	490.5	6.1	521.2	24.4	483.9	5.1	92.9		
-AC-10 Spot 38	31	724	0.5	24.1955	2.5	0.4489	2.7	0.0788	1.0	0.35	489.0	4.5	378.5	8.6	NA	NA	489.0	4.5	NA		
-AC-10 Spot 153	94	16071	1.3	17.7412	1.2	0.6145	1.6	0.0791	1.1	0.68	490.7	5.0	498.4	6.1	465.9	25.7	490.7	5.0	105.3		
-AC-10 Spot 136	57	8551	0.8	16.9137	1.9	0.6473	2.4	0.0794	1.4	0.60	492.8	6.8	508.8	9.5	570.7	41.4	492.8	6.8	86.3		
-AC-10 Spot 13	400	26580	1.3	17.4669	0.9	0.6282	1.4	0.0796	1.0	0.73	493.8	4.9	495.0	5.5	500.3	20.9	493.8	4.9	98.7		
-AC-10 Spot 244	65	9012	1.3	17.2893	1.7	0.6370	1.9	0.0799	0.9	0.50	495.6	4.5	500.5	7.5	522.7	36.2	495.6	4.5	94.8		
-AC-10 Spot 28	712	27817	1.0	17.5640	0.7	0.6270	1.3	0.0800	1.1	0.85	496.4	5.2	494.2	5.0	484.3	14.9	496.4	5.2	102.5		
-AC-10 Spot 252	100	21475	0.7	17.0586	1.5	0.6467	1.8	0.0800	0.9	0.51	496.4	4.3	508.5	7.0	552.1	33.2	496.4	4.3	89.9		
-AC-10 Spot 62	587	35936	1.0	17.4817	0.7	0.6323	1.5	0.0802	1.3	0.89	497.4	6.4	497.6	5.9	498.4	15.2	497.4	6.4	99.8		
-AC-10 Spot 190	227	18618	1.9	17.4197	0.9	0.6352	1.3	0.0803	0.9	0.69	497.8	4.1	499.3	4.9	506.2	20.1	497.8	4.1	98.3		
-AC-10 Spot 314	165	8288	0.7	17.3189	1.8	0.6415	2.1	0.0806	1.1	0.52	499.8	5.2	503.2	8.3	518.9	39.3	499.8	5.2	96.3		
-AC-10 Spot 200	119	4555	0.8	18.1772	1.5	0.6119	1.8	0.0807	1.0	0.57	500.4	5.0	494.8	7.1	411.8	33.6	500.4	5.0	121.5		
-AC-10 Spot 24	303	7813	2.3	17.6960	1.0	0.6296	1.3	0.0808	0.8	0.63	501.1	4.0	495.9	5.1	471.5	22.5	501.1	4.0	106.3		
-AC-1																					

-AC-10 Spot 92	60	8178	1.4	13.5209	1.3	1.8092	1.6	0.1775	1.0	0.96	1063.2	9.3	1048.8	10.5	1030.5	26.3	1039.6	26.3	101.3
-AC-10 Spot 86	133	38788	1.0	13.5172	0.7	1.7914	1.1	0.1747	0.9	0.77	1038.0	8.5	1038.7	7.4	1040.0	14.6	1040.0	14.6	99.8
-AC-10 Spot 19	662	49438	4.5	13.4974	0.7	1.7715	1.3	0.1735	1.1	0.84	1031.3	10.3	1035.1	8.3	1043.0	13.9	1043.0	13.9	99.9
-AC-10 Spot 26	100	18659	1.7	13.4635	0.9	1.8346	1.3	0.1792	0.9	0.72	1062.7	8.9	1057.9	8.3	1048.1	17.7	1048.1	17.7	101.4
-AC-10 Spot 178	321	10960391	2.1	13.4561	0.7	1.7782	1.4	0.1736	1.2	0.85	1031.9	11.2	1037.5	9.0	1049.3	14.5	1049.3	14.5	98.3
-AC-10 Spot 227	208	82231	3.8	13.4301	0.7	1.7542	1.1	0.1709	0.9	0.76	1017.3	8.2	1028.7	7.4	1053.1	14.9	1053.1	14.9	96.6
-AC-10 Spot 237	240	266059	2.7	13.3948	0.6	1.7841	1.2	0.1734	1.0	0.84	1030.8	9.3	1039.7	7.5	1058.4	12.6	1058.4	12.6	97.4
-AC-10 Spot 274	622	133796	2.5	13.3235	0.7	1.9112	1.3	0.1848	1.2	0.87	1093.0	11.7	1085.0	8.9	1069.1	13.2	1069.1	13.2	102.2
-AC-10 Spot 256	667	135436	1.5	13.3151	0.6	1.7063	1.4	0.1648	1.3	0.82	983.7	12.0	1010.9	9.2	1070.4	11.6	1070.4	11.6	91.9
-AC-10 Spot 47	288	19203	2.7	13.3079	0.8	1.8211	1.3	0.1758	1.0	0.77	1044.2	9.4	1053.1	8.3	1071.5	16.4	1071.5	16.4	97.5
-AC-10 Spot 51	275	14830	2.1	13.2870	0.8	1.8893	1.3	0.1821	1.0	0.79	1078.7	10.0	1077.3	8.5	1074.6	15.6	1074.6	15.6	100.4
-AC-10 Spot 122	113	28966	1.6	13.2685	0.9	1.8494	1.3	0.1780	1.0	0.76	1056.3	9.7	1063.2	8.7	1074.4	17.2	1074.4	17.2	99.0
-AC-10 Spot 32	238	14095	2.5	13.2453	0.9	1.9157	1.3	0.1841	1.0	0.75	1089.4	9.7	1086.6	8.6	1080.9	17.2	1080.9	17.2	100.8
-AC-10 Spot 148	37	8967	1.1	13.1999	1.4	1.8034	1.6	0.1727	0.9	0.54	1027.1	8.3	1046.7	10.6	1087.8	27.3	1087.8	27.3	94.4
-AC-10 Spot 11	566	167377	1.3	13.1398	0.6	1.9500	1.4	0.1859	1.3	0.89	1092.2	12.7	1098.4	9.5	1098.9	12.8	1098.9	12.8	100.2
-AC-10 Spot 282	1035	43256	4.1	13.1387	0.6	1.9485	1.3	0.1856	1.1	0.86	1097.4	11.2	1087.2	8.6	1097.0	12.9	1097.0	12.9	100.0
-AC-10 Spot 171	310	149425	3.2	13.1148	0.8	1.8916	1.3	0.1800	1.0	0.79	1067.0	10.2	1079.2	8.7	1100.8	15.9	1100.8	15.9	99.9
-AC-10 Spot 299	1436	295967	2.2	13.0931	0.6	1.8456	1.2	0.1753	1.0	0.84	1041.4	9.8	1061.9	7.9	1104.1	12.9	1104.1	12.9	94.3
-AC-10 Spot 140	398	38956	4.0	13.0560	0.6	1.9394	1.2	0.1836	1.0	0.84	1086.7	9.7	1094.4	7.8	1109.9	12.8	1109.9	12.8	97.9
-AC-10 Spot 230	254	14619	3.3	12.9789	0.8	2.0442	1.3	0.1925	1.1	0.80	1134.8	11.3	1130.4	9.2	1121.9	16.0	1121.9	16.0	101.1
-AC-10 Spot 139	614	48391	2.6	12.8583	0.7	2.0077	1.1	0.1873	0.9	0.81	1106.8	9.3	1118.1	7.7	1140.2	13.0	1140.2	13.0	97.1
-AC-10 Spot 175	192	419983	3.1	12.8445	0.7	1.9939	1.4	0.1858	1.2	0.87	1098.7	12.0	1113.4	9.2	1142.3	13.3	1142.3	13.3	98.2
-AC-10 Spot 103	373	42966	2.3	12.8310	0.8	2.0577	1.3	0.1916	1.0	0.80	1129.9	10.8	1134.9	8.9	1144.4	15.4	1144.4	15.4	98.7
-AC-10 Spot 205	130	13294	2.4	12.8058	0.9	2.0456	1.3	0.1901	1.0	0.74	1121.7	10.0	1130.8	8.9	1148.3	17.3	1148.3	17.3	97.7
-AC-10 Spot 188	479	109797	3.1	12.7917	0.5	2.0975	1.1	0.1947	1.0	0.88	1146.7	10.2	1148.0	7.6	1150.5	10.5	1150.5	10.5	99.7
-AC-10 Spot 196	249	150066	5.0	12.7657	0.6	2.1436	1.2	0.1985	1.0	0.85	1167.5	10.9	1163.0	8.3	1154.5	12.6	1154.5	12.6	101.1
-AC-10 Spot 231	393	61589	0.9	12.7651	0.6	2.1020	1.0	0.1947	0.8	0.83	1146.7	8.7	1149.5	6.9	1154.6	11.2	1154.6	11.2	99.3
-AC-10 Spot 149	1365	91547	4.2	12.7371	0.6	2.1407	1.4	0.1978	1.3	0.91	1163.7	13.3	1162.0	9.6	1158.9	11.6	1158.9	11.6	100.4
-AC-10 Spot 257	348	60540	2.5	12.7284	0.8	2.1001	1.3	0.1940	1.0	0.78	1142.8	10.5	1148.8	8.9	1160.3	16.1	1160.3	16.1	98.5
-AC-10 Spot 297	163	21103	3.0	12.8955	0.8	2.1832	1.2	0.2009	0.8	0.71	1180.4	9.2	1175.7	8.3	1187.0	16.7	1187.0	16.7	101.1
-AC-10 Spot 128	402	40716	1.9	12.8786	0.7	2.0676	1.1	0.1902	0.9	0.77	1122.3	8.8	1138.1	7.8	1188.4	14.2	1188.4	14.2	98.1
-AC-10 Spot 34	1220	73745	4.0	12.8698	0.6	2.1193	1.1	0.1948	1.0	0.86	1147.5	10.0	1155.1	7.8	1189.5	11.2	1189.5	11.2	98.1
-AC-10 Spot 150	112	26543	1.3	12.8526	0.7	2.0074	1.2	0.1843	1.0	0.81	1090.4	10.0	1118.0	8.3	1172.2	14.4	1172.2	14.4	93.0
-AC-10 Spot 229	329	175836	1.9	12.8237	0.5	2.1056	1.1	0.1929	0.9	0.87	1136.9	9.8	1150.7	7.5	1176.7	10.7	1176.7	10.7	98.6
-AC-10 Spot 284	113	39978	2.1	12.8162	0.8	2.1777	1.1	0.1994	0.9	0.75	1171.8	9.2	1173.9	8.0	1177.9	15.0	1177.9	15.0	99.5
-AC-10 Spot 183	190	17680	1.8	12.8775	0.8	2.2053	1.6	0.2013	1.3	0.85	1182.1	14.5	1182.7	11.0	1183.9	16.2	1183.9	16.2	99.8
-AC-10 Spot 301	189	388300	1.8	12.8714	0.7	2.1871	1.2	0.1996	1.0	0.83	1172.6	10.9	1176.9	8.5	1184.9	13.5	1184.9	13.5	99.0
-AC-10 Spot 170	98	24041	3.0	12.8353	0.9	2.2630	1.4	0.2058	1.1	0.78	1206.6	11.8	1200.8	9.9	1190.6	17.9	1190.6	17.9	101.3
-AC-10 Spot 30	1716	84110	2.2	12.8349	0.6	2.1636	1.1	0.1968	0.9	0.85	1158.0	9.5	1169.4	7.3	1190.7	10.9	1190.7	10.9	97.3
-AC-10 Spot 249	178	8975	1.3	12.8172	4.3	1.2098	4.8	0.1099	2.2	0.45	672.0	13.9	805.1	26.6	1193.4	84.0	1193.4	84.0	56.3
-AC-10 Spot 42	953	90314	2.3	12.4708	0.6	2.2237	1.6	0.2012	1.5	0.94	1181.8	16.6	1188.5	11.5	1200.7	11.4	1200.7	11.4	98.4
-AC-10 Spot 104	462	42095	2.2	12.2997	0.6	2.3236	1.2	0.2074	1.0	0.84	1214.8	11.1	1219.5	8.5	1227.9	12.6	1227.9	12.6	98.9
-AC-10 Spot 78	180	11442	1.9	12.2987	0.7	2.4070	1.1	0.2148	0.8	0.76	1254.1	9.2	1244.7	7.6	1228.4	13.5	1228.4	13.5	102.1
-AC-10 Spot 7	34	4553	1.8	12.2000	1.6	2.4570	1.9	0.2175	1.1	0.55	1268.6	12.1	1259.5	13.7	1243.9	30.8	1243.9	30.8	102.0
-AC-10 Spot 50	197	27396	3.3	12.1401	0.7	2.3935	1.0	0.2108	0.7	0.73	1233.2	8.3	1240.6	7.3	1253.5	13.7	1253.5	13.7	98.4
-AC-10 Spot 4	139	23425	1.2	12.0331	0.8	2.4827	1.4	0.2168	1.1	0.79	1264.7	12.3	1267.0	9.9	1270.8	16.5	1270.8	16.5	99.5
-AC-10 Spot 292	259	89411	1.2	11.8307	0.6	2.6028	1.1	0.2234	1.0	0.84	1300.0	11.3	1301.4	8.4	1303.8	12.3	1303.8	12.3	99.7
-AC-10 Spot 15	394	38063	2.1	11.7305	0.8	2.5336	1.3	0.2166	1.1	0.79	1268.8	12.2	1281.7	9.7	1320.3	15.7	1320.3	15.7	95.3
-AC-10 Spot 73	38	11112	2.8	11.5881	1.0	2.7857	1.5	0.2342	1.2	0.75	1356.6	14.1	1351.7	11.5	1343.9	19.5	1343.9	19.5	100.9
-AC-10 Spot 90	204	19305	1.3	11.4854	0.8	2.8884	1.1	0.2407	0.8	0.73	1390.4	10.3	1378.9	8.5	1361.1	14.9	1361.1	14.9	102.1
-AC-10 Spot 260	158	42083	1.4	11.3788	0.7	2.8237	1.3	0.2414	1.1	0.84	1393.9	13.9	1388.1	10.0	1379.1	14.0	1379.1	14.0	101.1
-AC-10 Spot 161	131	30599	2.7	11.3039	0.6	2.9126	1.2	0.2389	1.0	0.84	1380.9	12.5	1385.2	9.0	1391.8	12.3	1391.8	12.3	99.2
-AC-10 Spot 63	467	780215	1.3	11.2984	0.6	2.9392	1.3	0.2410	1.2	0.91	1391.6	15.2	1382.1	10.2	1392.7	10.8	1392.7	10.8	99.9
-AC-10 Spot 10	292	100156	3.1	11.2933	0.7	2.9411	1.2	0.2410	1.0	0.84	1391.9	12.5	1392.6	9.1	1393.6	12.5	1393.6	12.5	99.9
-AC-10 Spot 203	350	2703808	3.0	11.2598	0.8	2.9042	1.2	0.2373	0.9	0.75	1372.5	11.0	1383.0	8.9	1399.2	14.9	1399.2	14.9	98.1
-AC-10 Spot 49	724	42844	1.1	11.2255	0.5	2.9433	1.0	0.2397	0.9	0.89	1385.3	11.4	1393.1	7.8	1405.1	9.1	1405.1	9.1	99.6
-AC-10 Spot 256	45	3682	1.1	11.1893	1.1	2.8855	1.5	0.2343	1.0	0.70	1356.8	12.8	1378.1	11.2	1411.3	20.3	1411.3	20.3	96.1
-AC-10 Spot 29	80	8548	2.6	11.1224	1.0	3.0873	1.3	0.2491	0.8	0.65	1434.1	10.5	1429.5	9.6	1422.7	18.2	1422.7	18.2	100.8
-AC-10 Spot 285	119	18719	1.2	11.1027	0.7	3.1202	1.2	0.2514	1.0	0.80	1445.5	12.5	1437.7	9.3	1426.1	13.9	1426.1	13.9	101.4
-AC-10 Spot 228	542	83263	3.5	11.9469	0.7	3.1714	1.3	0.2542	1.2	0.87	1480.1	15.3	1450.2	10.4	1435.7	12.4	1435.7	12.4	101.7
-AC-10 Spot 169	268	53727	2.2	11.0455	0.8	3.0909	1.3	0.2463	1.0	0.77	1414.3	12.5	1423.0	9.7	1436.0	15.4	1436.0	15.4	98.5
-AC-10 Spot 187	277	19613	2.2	11.0415	0.6	3.0919	1.1	0.2477	0.9	0.82	1426.7	11.7	1430.7	8.5	143				

-AC-10 Spot 221	161	101750	1.3	10.0578	0.8	3.8040	1.4	0.2776	1.1	0.81	1579.3	15.3	1663.6	10.9	1612.5	14.9	1612.5	14.9	97.9
-AC-10 Spot 192	491	19236	10.2	10.9515	0.8	3.0987	1.4	0.2280	1.2	0.85	1313.5	14.3	1432.4	10.9	1613.7	14.1	1613.7	14.1	81.4
-AC-10 Spot 168	310	73983	2.7	10.0496	0.8	3.8590	1.1	0.2887	0.9	0.86	1634.9	13.6	1625.8	8.9	1614.0	10.5	1614.0	10.5	101.3
-AC-10 Spot 236	199	33394	2.3	10.0435	0.8	3.8586	1.3	0.2810	1.1	0.89	1598.6	16.2	1604.7	10.4	1615.2	10.8	1615.2	10.8	98.9
-AC-10 Spot 87	211	7050	1.8	10.0392	1.4	3.3266	1.7	0.2423	1.0	0.59	1398.7	12.8	1487.3	13.4	1616.0	25.8	1616.0	25.8	86.6
-AC-10 Spot 100	368	183098	1.7	10.0086	0.8	3.8742	1.3	0.2813	1.0	0.78	1598.1	13.9	1608.3	10.2	1621.7	14.8	1621.7	14.8	98.5
-AC-10 Spot 147	571	133162	1.4	9.9909	0.5	3.9231	1.1	0.2844	1.0	0.88	1613.5	14.0	1618.5	9.1	1624.9	9.9	1624.9	9.9	99.3
-AC-10 Spot 245	285	43705	1.0	9.9565	0.6	4.0214	1.0	0.2905	0.8	0.80	1644.1	11.7	1638.5	8.2	1631.4	11.2	1631.4	11.2	100.8
-AC-10 Spot 16	231	54447	2.8	9.9528	0.7	3.9254	1.2	0.2835	1.0	0.83	1608.9	14.2	1618.9	9.7	1632.1	12.6	1632.1	12.6	98.6
-AC-10 Spot 133	324	33331	1.9	9.9340	0.6	4.1414	1.2	0.2985	1.0	0.87	1683.9	15.0	1662.5	9.4	1635.6	10.4	1635.6	10.4	103.0
-AC-10 Spot 77	429	33071	2.8	9.9268	0.6	4.0884	1.5	0.2945	1.4	0.92	1663.9	20.2	1652.0	12.2	1636.9	11.1	1636.9	11.1	101.6
-AC-10 Spot 222	284	26134	1.3	9.9236	0.6	3.9660	1.0	0.2858	0.9	0.85	1620.4	12.7	1627.9	8.5	1637.5	10.3	1637.5	10.3	99.0
-AC-10 Spot 101	420	3601394	1.9	9.9215	0.6	3.9850	0.9	0.2869	0.7	0.72	1625.9	9.6	1631.2	7.5	1637.9	11.8	1637.9	11.8	99.3
-AC-10 Spot 14	207	28150	1.2	9.9189	0.6	3.9838	0.9	0.2867	0.7	0.78	1624.8	10.3	1630.9	7.5	1638.8	10.6	1638.8	10.6	99.1
-AC-10 Spot 179	218	64827	1.2	9.9122	0.7	4.0061	1.2	0.2881	1.0	0.85	1632.2	15.0	1635.4	10.0	1639.6	12.2	1639.6	12.2	99.5
-AC-10 Spot 66	147	27672	0.9	9.9034	0.6	3.9970	1.1	0.2872	0.9	0.82	1627.5	13.3	1633.6	9.1	1641.5	11.8	1641.5	11.8	99.1
-AC-10 Spot 2	160	37672	1.9	9.8936	0.8	4.0309	1.5	0.2894	1.2	0.82	1638.3	17.2	1640.4	11.8	1643.1	15.5	1643.1	15.5	99.7
-AC-10 Spot 22	81	6212	0.8	9.8771	0.7	3.9972	1.2	0.2865	0.9	0.78	1623.9	13.1	1633.6	9.4	1646.2	13.4	1646.2	13.4	98.6
-AC-10 Spot 74	346	69398	1.4	9.8674	0.6	3.8080	1.1	0.2726	0.9	0.85	1554.2	13.0	1594.4	8.9	1648.0	11.0	1648.0	11.0	94.3
-AC-10 Spot 217	326	135908	1.2	9.8496	0.7	4.0879	1.1	0.2921	0.8	0.77	1652.3	12.4	1651.9	9.0	1651.4	13.1	1651.4	13.1	100.1
-AC-10 Spot 20	337	72304	1.5	9.8374	0.5	4.0922	1.0	0.2921	0.8	0.84	1652.0	12.1	1652.7	8.1	1653.7	9.9	1653.7	9.9	99.9
-AC-10 Spot 27	434	839053	1.0	9.8220	0.7	3.8747	1.2	0.2761	1.0	0.82	1571.9	13.8	1608.4	9.7	1656.6	12.8	1656.6	12.8	94.9
-AC-10 Spot 138	161	15086	1.5	9.7806	0.8	4.0187	1.2	0.2862	0.9	0.73	1617.5	12.5	1638.0	9.7	1664.4	15.0	1664.4	15.0	97.2
-AC-10 Spot 167	127	13932	2.1	9.7737	0.7	4.2102	1.2	0.2966	1.0	0.83	1684.2	14.9	1676.0	10.0	1665.7	12.6	1665.7	12.6	101.1
-AC-10 Spot 114	422	86273	1.8	9.7664	0.7	4.0256	1.1	0.2863	0.9	0.79	1617.9	12.8	1639.4	9.2	1667.1	13.0	1667.1	13.0	97.0
-AC-10 Spot 290	235	44832	1.5	9.7497	0.6	4.1280	1.3	0.2920	1.2	0.89	1651.6	16.9	1659.9	10.7	1670.3	11.0	1670.3	11.0	98.9
-AC-10 Spot 21	82	107457	1.3	9.7349	0.9	4.1135	1.3	0.2906	0.9	0.72	1644.3	13.7	1657.0	10.8	1673.1	16.9	1673.1	16.9	98.3
-AC-10 Spot 214	435	420033	1.7	9.7165	0.6	4.1607	1.1	0.2933	1.0	0.85	1658.2	13.9	1666.3	9.1	1676.6	10.7	1676.6	10.7	98.9
-AC-10 Spot 115	637	40680	4.3	9.7132	0.6	4.0844	1.3	0.2864	1.1	0.88	1623.8	15.9	1647.2	10.2	1677.2	10.9	1677.2	10.9	98.8
-AC-10 Spot 56	175	19634	3.2	9.7054	0.8	4.2955	1.2	0.3025	1.0	0.78	1703.6	14.4	1662.5	10.1	1678.7	14.1	1678.7	14.1	101.5
-AC-10 Spot 79	120	18961	2.0	9.7018	0.7	4.3272	1.0	0.3046	0.8	0.74	1714.1	11.8	1668.6	8.5	1679.4	12.8	1679.4	12.8	102.1
-AC-10 Spot 209	337	91359	1.7	9.6988	0.7	4.1012	1.3	0.2886	1.1	0.83	1634.7	15.9	1654.5	10.8	1679.8	13.5	1679.8	13.5	97.3
-AC-10 Spot 240	201	57789	0.7	9.6910	0.7	4.1714	1.4	0.2933	1.2	0.86	1658.1	17.9	1668.4	11.8	1681.4	13.3	1681.4	13.3	98.6
-AC-10 Spot 291	181	41780	0.9	9.6735	0.7	4.1436	1.3	0.2908	1.1	0.84	1645.7	15.5	1663.0	10.4	1684.8	12.7	1684.8	12.7	97.7
-AC-10 Spot 93	112	80607	1.1	9.6735	0.8	4.1999	1.2	0.2948	0.9	0.76	1665.4	13.4	1674.0	9.8	1684.8	14.4	1684.8	14.4	98.9
-AC-10 Spot 250	47	5534	2.0	9.6685	1.0	4.2572	1.3	0.2987	0.9	0.68	1684.6	13.7	1685.1	11.1	1685.7	18.2	1685.7	18.2	99.9
-AC-10 Spot 127	116	15679	0.8	9.6656	0.7	4.1786	1.4	0.2931	1.2	0.85	1657.1	17.4	1670.0	11.4	1686.3	13.5	1686.3	13.5	98.3
-AC-10 Spot 264	102	24487	1.3	9.6605	0.8	4.3786	1.3	0.3070	1.1	0.80	1725.9	16.1	1708.5	11.0	1687.3	14.7	1687.3	14.7	102.3
-AC-10 Spot 102	162	1124181	2.1	9.6506	0.7	4.3478	1.2	0.3044	0.9	0.78	1713.3	13.7	1702.5	9.6	1689.1	13.4	1689.1	13.4	101.4
-AC-10 Spot 95	420	220024	2.9	9.6489	0.6	4.3408	1.3	0.3039	1.1	0.86	1710.6	16.2	1701.1	10.3	1689.5	11.8	1689.5	11.8	101.3
-AC-10 Spot 108	210	54132	2.6	9.6328	0.6	4.3247	1.1	0.3023	1.0	0.84	1702.5	14.2	1698.1	9.4	1692.6	11.6	1692.6	11.6	100.6
-AC-10 Spot 124	341	22750	2.9	9.6127	0.6	4.2276	1.2	0.2949	1.0	0.87	1685.8	15.0	1679.4	9.6	1696.4	10.6	1696.4	10.6	98.2
-AC-10 Spot 88	232	66660	2.2	9.6115	0.6	4.2255	1.0	0.2947	0.8	0.78	1664.9	11.4	1679.0	8.1	1696.6	11.4	1696.6	11.4	98.1
-AC-10 Spot 182	280	108344	2.6	9.6045	0.8	4.3830	1.0	0.3054	0.8	0.79	1718.3	11.4	1709.1	7.9	1698.0	10.7	1698.0	10.7	101.2
-AC-10 Spot 289	361	50973	2.9	9.5970	0.7	4.3991	1.2	0.3063	1.0	0.83	1722.6	15.2	1712.2	10.1	1699.4	12.6	1699.4	12.6	101.4
-AC-10 Spot 159	295	24900	3.1	9.5962	0.7	4.2629	1.4	0.2988	1.2	0.87	1675.5	17.5	1686.2	11.2	1699.6	12.2	1699.6	12.2	98.6
-AC-10 Spot 262	225	36287	2.6	9.5949	0.6	4.3033	1.2	0.2996	1.0	0.87	1689.3	15.0	1694.0	9.6	1699.8	10.6	1699.8	10.6	99.4
-AC-10 Spot 278	295	41347	2.4	9.5797	0.6	4.2990	1.2	0.2982	1.0	0.85	1682.3	15.0	1691.4	9.8	1702.7	11.6	1702.7	11.6	98.8
-AC-10 Spot 48	243	18248	2.2	9.5630	0.6	4.3213	1.2	0.2998	1.0	0.86	1690.5	15.8	1697.4	10.1	1705.9	11.8	1705.9	11.8	99.1
-AC-10 Spot 307	985	98212	2.9	9.5623	0.7	3.7366	1.3	0.2593	1.1	0.86	1498.0	14.9	1679.2	10.4	1706.1	12.1	1706.1	12.1	87.1
-AC-10 Spot 208	294	24026	2.2	9.5367	0.7	4.2228	1.1	0.2922	0.8	0.73	1652.5	11.4	1678.5	8.8	1711.0	13.3	1711.0	13.3	99.6
-AC-10 Spot 198	488	346292	2.1	9.5362	0.5	4.3785	1.3	0.3028	1.2	0.91	1705.3	17.3	1707.9	10.5	1711.1	9.9	1711.1	9.9	99.7
-AC-10 Spot 216	326	43343	2.0	9.5222	0.6	4.4386	1.1	0.3067	0.9	0.86	1724.3	14.4	1719.6	9.2	1713.8	10.5	1713.8	10.5	100.6
-AC-10 Spot 83	286	101643	1.6	9.5189	0.7	4.2504	1.1	0.2936	0.9	0.82	1659.3	13.5	1683.8	9.3	1714.4	12.0	1714.4	12.0	98.8
-AC-10 Spot 296	406	41335	0.8	9.5183	0.6	4.3851	1.2	0.3015	1.1	0.88	1698.8	15.7	1705.8	9.9	1714.6	10.3	1714.6	10.3	99.1
-AC-10 Spot 70	267	734661	1.2	9.5174	0.6	4.3169	1.2	0.2981	1.1	0.88	1681.9	16.0	1696.6	10.1	1714.7	10.7	1714.7	10.7	98.1
-AC-10 Spot 276	273	18147	2.2	9.5171	0.6	4.5440	1.0	0.3138	0.8	0.82	1756.3	12.7	1739.1	8.4	1714.8	10.6	1714.8	10.6	102.6
-AC-10 Spot 268	187	34206	1.6	9.5058	0.5	4.4900	1.0	0.3097	0.9	0.85	1738.2	13.5	1729.1	8.6	1717.0	9.9	1717.0	9.9	101.3
-AC-10 Spot 213	308	25309	2.0	9.4982	0.6	4.3714	1.0	0.3013	0.8	0.80	1697.6	11.3	1707.0	7.9	1718.5	10.6	1718.5	10.6	98.8
-AC-10 Spot 163	341	48722	2.3	9.4967	0.6	4.5014	1.3	0.3102	1.2	0.89	1741.6	18.0	1731.2	11.0	1718.7	11.3	1718.7	11.3	101.3
-AC-10 Spot 263	211	47175	2.9	9.4801	0.6	4.5485	1.2	0.3129	1.0	0.88	1754.8	15.9	1739.9	9.8	1722.0	10.2	1722.0	10.2	101.9
-AC-10 Spot 302	239	74222	2.2	9.4436	0.6	4.4109	1.2	0.3022	1.0	0.85	1702.4	15.5	1714.4	10.1	1729.0	11.7	17		

-AC-10 Spot 215	463	70404	2.7	8.6998	0.5	5.2917	1.2	0.3336	1.1	0.92	1956.0	18.1	1987.5	10.4	1880.3	8.4	1880.3	8.4	98.7
-AC-10 Spot 68	324	28021	1.3	8.6431	0.8	5.2727	1.4	0.3307	1.2	0.89	1941.6	19.7	1984.5	11.9	1890.0	11.5	1890.0	11.5	97.4
-AC-10 Spot 37	159	83484	0.6	8.5848	0.7	5.6601	1.3	0.3544	1.1	0.85	1955.8	18.3	1929.9	11.1	1902.2	12.3	1902.2	12.3	102.8
-AC-10 Spot 97	396	74345	2.2	8.4672	0.7	5.0864	1.5	0.3125	1.3	0.89	1752.9	20.4	1833.8	12.7	1926.9	12.1	1926.9	12.1	91.0
-AC-10 Spot 313	233	38869	1.9	8.3383	0.7	5.8639	1.4	0.3427	1.2	0.86	1899.5	19.5	1925.9	11.9	1954.4	12.7	1954.4	12.7	97.2
-AC-10 Spot 283	297	36733	1.1	8.2387	0.5	6.0712	1.1	0.3629	0.9	0.87	1996.0	16.1	1986.1	9.4	1975.8	9.8	1975.8	9.6	101.0
-AC-10 Spot 65	118	44010	1.6	8.1769	0.7	6.2730	1.2	0.3722	1.0	0.81	2039.6	17.7	2014.7	10.9	1989.2	12.9	1989.2	12.9	102.5
-AC-10 Spot 294	1007	22162	1.4	8.1609	0.7	4.7842	1.4	0.2833	1.2	0.87	1807.9	17.1	1782.1	11.7	1962.7	12.4	1962.7	12.4	80.7
-AC-10 Spot 6	532	118692	3.2	8.1027	0.6	5.6724	1.0	0.3335	0.8	0.82	1855.3	13.2	1927.2	8.6	2005.4	10.2	2005.4	10.2	92.5
-AC-10 Spot 181	77	36781	1.8	8.5468	0.6	9.2858	1.3	0.4411	1.1	0.89	2355.6	22.2	2366.6	11.8	2376.1	9.7	2376.1	9.7	99.1
-AC-10 Spot 98	248	57041	2.8	8.2826	0.8	10.0668	1.9	0.4589	1.7	0.90	2434.7	34.9	2440.9	17.6	2446.1	13.8	2446.1	13.8	99.5
-AC-10 Spot 280	826	94109	1.8	8.1863	0.6	9.8247	1.5	0.4410	1.3	0.90	2355.1	26.4	2418.5	13.6	2472.2	10.8	2472.2	10.8	95.3
-AC-10 Spot 67	132	1558514	2.1	8.1274	0.6	9.9539	1.1	0.4425	0.9	0.81	2362.0	16.8	2430.5	9.7	2488.4	10.4	2488.4	10.4	94.9
-AC-10 Spot 191	448	245252	3.6	8.0328	0.7	10.4767	1.2	0.4586	1.0	0.84	2433.4	21.0	2477.9	11.4	2514.5	11.2	2514.5	11.2	98.8
-AC-10 Spot 172	105	23908	5.9	8.0055	1.1	9.2843	1.5	0.4037	1.0	0.88	2186.0	19.4	2364.5	14.2	2522.2	19.2	2522.2	19.2	96.7
-AC-10 Spot 235	306	48798	1.4	5.9775	0.7	9.9315	1.3	0.4307	1.1	0.94	2309.1	20.8	2428.4	11.8	2530.0	11.8	2530.0	11.8	91.3
-AC-10 Spot 57	500	173941	2.7	5.9457	0.6	10.7346	1.2	0.4631	1.1	0.87	2453.2	21.5	2500.4	11.3	2539.0	10.0	2539.0	10.0	86.6
-AC-10 Spot 164	90	61788	1.4	5.9187	0.5	11.0839	1.0	0.4760	0.9	0.88	2508.8	19.2	2530.2	9.7	2546.8	8.2	2546.8	8.2	96.6
-AC-10 Spot 272	59	21137	1.1	5.8904	0.6	11.1456	1.1	0.4784	1.0	0.85	2511.4	20.1	2635.4	10.6	2554.8	10.2	2554.8	10.2	98.3
-AC-10 Spot 8	175	58081	2.7	5.8600	0.6	11.9872	1.1	0.4949	1.0	0.86	2591.9	20.5	2603.4	10.4	2612.4	9.4	2612.4	9.4	99.2
-AC-10 Spot 275	296	49686	8.1	5.6471	0.6	11.8891	1.2	0.4790	1.0	0.86	2522.7	21.0	2579.8	10.9	2625.0	9.8	2625.0	9.8	96.1
-AC-10 Spot 247	163	67228	2.1	5.5425	0.6	12.8896	1.2	0.5103	1.0	0.84	2658.0	21.1	2656.0	10.8	2656.0	10.3	2656.0	10.3	100.1
-AC-10 Spot 232	267	706022	1.7	5.4214	0.5	13.2738	1.0	0.5221	0.9	0.86	2708.3	19.2	2699.3	9.5	2692.6	8.4	2692.6	8.4	100.6
-AC-10 Spot 239	227	125379	1.3	5.4096	0.7	13.0709	1.4	0.5131	1.2	0.87	2689.6	26.1	2684.8	12.9	2696.2	11.0	2696.2	11.0	99.0
-AC-10 Spot 166	147	55615	1.7	5.3837	0.6	13.1552	1.0	0.5148	0.9	0.84	2677.3	19.4	2690.9	9.9	2701.1	9.3	2701.1	9.3	99.1
-AC-10 Spot 186	362	316671	1.2	5.3850	0.5	13.0479	1.1	0.5098	0.9	0.87	2655.8	20.5	2683.1	10.3	2703.7	9.0	2703.7	9.0	96.2
-AC-10 Spot 259	215	360232	1.7	5.3847	0.6	13.3045	1.1	0.5198	1.0	0.85	2698.4	21.2	2701.5	10.7	2703.8	9.8	2703.8	9.8	99.8
-AC-10 Spot 155	439	2178858	1.5	5.2694	0.7	13.2228	1.6	0.5056	1.5	0.89	2637.6	31.5	2665.7	15.4	2739.5	12.2	2739.5	12.2	96.3
-AC-10 Spot 43	129	47319	1.9	5.2607	0.8	13.9867	1.3	0.5339	1.0	0.78	2757.8	21.8	2748.8	11.9	2742.2	13.0	2742.2	13.0	100.6
-AC-10 Spot 141	127	841938	1.5	5.2304	0.7	12.8781	1.5	0.4887	1.3	0.88	2565.2	26.7	2670.8	13.8	2751.7	12.1	2751.7	12.1	93.2
-AC-10 Spot 106	379	106000	1.7	5.1891	0.6	14.3203	1.1	0.5362	1.0	0.85	2780.0	21.8	2771.2	10.8	2764.7	9.7	2764.7	9.7	100.6
-AC-10 Spot 157	144	43389	1.1	5.1531	0.5	13.2801	1.3	0.4985	1.2	0.82	2598.9	25.3	2699.8	12.1	2776.1	8.1	2776.1	8.1	93.6
-AC-10 Spot 84	284	48977	2.0	5.1516	0.6	14.4232	1.2	0.5391	1.0	0.84	2779.8	21.8	2778.0	11.0	2776.6	10.4	2776.6	10.4	100.1
-AC-10 Spot 224	118	48301	1.4	5.0115	0.6	14.5340	1.2	0.5285	1.1	0.89	2735.1	23.9	2785.2	11.5	2821.7	9.1	2821.7	9.1	96.9
-AC-10 Spot 312	1617	206032	5.3	4.3955	0.7	18.8532	1.4	0.8013	1.2	0.85	3035.0	27.9	3034.3	13.1	3033.9	11.7	3033.9	11.7	100.0
-AC-10 Spot 33	89	66575	1.3	4.3868	0.6	18.6147	1.1	0.5625	1.0	0.84	2999.5	23.1	3022.1	11.0	3037.1	9.9	3037.1	9.9	98.8
-AC-10 Spot 204	193	42484	2.1	4.1030	0.5	20.4245	1.1	0.6081	1.0	0.88	3062.2	23.5	3111.7	10.7	3143.8	8.4	3143.8	8.4	97.4
-AC-10 Spot 135	153	83405	2.5	3.7756	0.5	23.7470	1.3	0.6506	1.2	0.93	3230.4	31.2	3258.1	12.9	3275.1	7.7	3275.1	7.7	98.6
-AC-10 Spot 46	282	1036139	1.9	3.0293	0.6	32.9679	1.1	0.7244	1.0	0.85	3512.5	26.4	3679.3	11.3	3616.9	9.3	3616.9	9.3	97.1

18MT-20 (Ashbough Canyon, Kadd Quartzite Cq.) U-Pb geochronologic analyses.

Analysis	U (ppm)	206Pb/204Pb	U/Th	Isotope ratios						Apparent ages (Ma)						Best age (Ma)	Conc (%)		
				208Pb/207Pb*	±	207Pb/235U*	±	208Pb/238U*	±	error corr.	208Pb/238U*	±	207Pb/235U*	±	208Pb/207Pb*			±	
-18MT-20 Spot 96	706	14144	1.4	20.9813	1.2	0.0743	1.8	0.0113	1.4	0.75	72.5	1.0	72.7	1.3	81.4	28.4	72.5	1.0	NA
-18MT-20 Spot 65	119	2327	1.4	24.1956	5.4	0.0661	5.6	0.0116	1.4	0.24	74.3	1.0	85.0	3.5	NA	NA	74.3	1.0	NA
-18MT-20 Spot 263	379	3566	2.2	22.9829	1.2	0.1108	1.7	0.0185	1.1	0.67	118.0	1.3	106.7	1.7	NA	NA	118.0	1.3	NA
-18MT-20 Spot 54	583	61961	1.4	17.8892	0.7	0.5205	1.4	0.0676	1.2	0.87	421.4	4.9	425.5	4.8	447.4	15.0	421.4	4.9	94.2
-18MT-20 Spot 233	339	56353	1.9	18.1655	0.7	0.5182	1.3	0.0683	1.0	0.81	425.9	4.3	424.0	4.4	413.2	16.7	425.9	4.3	103.1
-18MT-20 Spot 134	341	10995	1.7	17.6999	1.1	0.5354	1.6	0.0688	1.1	0.70	428.6	4.5	435.4	5.5	471.0	24.6	428.6	4.5	91.0
-18MT-20 Spot 95	200	1134935	1.2	18.0035	0.9	0.5325	1.3	0.0696	0.9	0.72	433.5	3.9	433.5	4.6	433.2	20.1	433.5	3.9	100.1
-18MT-20 Spot 228	117	9262	2.8	18.2376	1.1	0.5272	1.5	0.0698	1.0	0.88	434.7	4.3	429.9	5.3	404.4	24.9	434.7	4.3	107.5
-18MT-20 Spot 214	173	26975	3.9	17.7417	1.1	0.5488	1.5	0.0706	1.1	0.71	440.0	4.6	444.2	5.5	465.8	23.8	440.0	4.6	94.5
-18MT-20 Spot 181	137	64988	4.3	17.6950	1.2	0.5756	1.5	0.0739	0.9	0.83	459.6	4.2	461.6	5.8	471.6	25.8	459.6	4.2	97.4
-18MT-20 Spot 107	96	6475	0.9	17.4270	0.9	0.6775	1.3	0.0857	1.0	0.74	529.8	5.1	525.2	5.5	505.3	19.7	529.8	5.1	104.9
-18MT-20 Spot 272	770	150480	11.1	14.0798	0.7	1.5427	1.5	0.1576	1.4	0.88	943.5	12.0	947.6	9.5	957.2	14.9	957.2	14.9	96.6
-18MT-20 Spot 313	213	77225	3.0	14.0721	0.9	1.5273	1.2	0.1559	0.9	0.76	934.2	8.2	941.4	7.6	958.3	16.5	958.3	16.5	97.5
-18MT-20 Spot 173	100	63089	2.5	13.9843	0.8	1.6082	1.1	0.1632	0.8	0.72	974.4	7.4	973.4	7.2	971.1	16.2	971.1	16.2	100.3
-18MT-20 Spot 60	236	79310	3.1	13.6814	0.7	1.7071	1.3	0.1685	1.1	0.82	1009.1	9.8	1011.2	8.3	1015.6	15.1	1015.6	15.1	99.4
-18MT-20 Spot 190	632	292709	5.4	13.5419	0.7	1.7478	1.4	0.1717	1.3	0.89	1021.6	12.1	1026.3	9.3	1036.3	13.5	1036.3	13.5	98.6
-18MT-20 Spot 66	773	1730220	2.4	13.5185	0.6	1.7616	1.3	0.1728	1.1	0.88	1027.5	10.6	1031.4	8.3	1039.8	12.4	1039.8	12.4	98.8
-18MT-20 Spot 293	168	177885	3.3	13.5150	0.8	1.7364	1.2	0.1703	0.8	0.72	1013.6	8.0	1022.1	7.6	1040.3	16.8	1040.3	16.8	97.4
-18MT-20 Spot 195	152	73662	2.2	13.4761	0.8	1.7877	1.4	0.1748	1.1	0.81	1038.5	10.5	1041.0	8.9	1046.2	16.3	1046.2	16.3	99.3
-18MT-20 Spot 199	95	70684	1.5	13.4669	0.7	1.7999	1.4	0.1759	1.2	0.88	1044.4	11.4	1045.4	8.8	1047.6	13.1	1047.6	13.1	99.7
-18MT-20 Spot 198	206	96484	1.2	13.3208	0.7	1.8944	1.2	0.1831	1.0	0.80	1083.9	9.6	1079.1	8.0	1099.5	14.5	1099.5	14.5	101.3
-18MT-20 Spot 106	760	3294																	

-18MT-20 Spot 12	129	85426	2.1	11.0013	0.7	3.1238	1.1	0.2494	0.9	0.76	1435.2	11.0	1438.6	8.8	1443.6	13.8	1443.6	13.8	99.4
-18MT-20 Spot 310	240	455625	1.1	10.9995	0.7	3.0859	1.2	0.2463	1.0	0.81	1419.3	12.3	1429.2	9.2	1443.9	13.4	1443.9	13.4	98.3
-18MT-20 Spot 176	312	99512	1.7	10.9817	0.6	3.1111	1.2	0.2479	1.0	0.83	1427.6	12.5	1435.4	9.0	1447.0	12.4	1447.0	12.4	98.7
-18MT-20 Spot 16	97	107782	1.0	10.9816	0.7	3.0682	1.2	0.2445	0.9	0.77	1409.9	11.2	1424.8	8.8	1447.0	14.1	1447.0	14.1	97.4
-18MT-20 Spot 24	194	183385	2.0	10.9694	0.5	3.0875	1.1	0.2457	0.9	0.87	1416.5	11.6	1429.6	8.1	1449.2	9.9	1449.2	9.9	97.7
-18MT-20 Spot 148	429	131144	3.6	10.9417	0.6	3.1338	1.3	0.2488	1.2	0.89	1432.3	15.0	1441.0	10.1	1454.0	11.4	1454.0	11.4	96.5
-18MT-20 Spot 217	94	43727	1.8	10.9315	0.9	3.0568	1.4	0.2425	1.0	0.74	1399.5	13.0	1421.9	10.8	1455.7	17.7	1455.7	17.7	96.1
-18MT-20 Spot 157	213	59083	1.5	10.9095	0.6	3.1452	1.0	0.2490	0.8	0.79	1433.1	10.5	1443.8	8.0	1459.6	12.0	1459.6	12.0	98.2
-18MT-20 Spot 259	369	85791367	1.9	10.8928	0.5	3.1615	1.2	0.2499	1.1	0.90	1437.8	14.0	1447.8	9.3	1462.5	10.0	1462.5	10.0	98.3
-18MT-20 Spot 43	334	52025	2.6	10.8893	0.7	2.9737	1.2	0.2345	0.9	0.77	1358.2	11.0	1400.9	8.9	1466.6	14.2	1466.6	14.2	92.6
-18MT-20 Spot 250	216	104947	1.6	10.7616	0.5	2.9504	1.3	0.2304	1.2	0.91	1336.5	14.0	1395.0	9.6	1485.5	9.9	1485.5	9.9	90.0
-18MT-20 Spot 123	290	193495	1.0	10.6378	0.6	3.3932	1.3	0.2619	1.1	0.87	1499.6	14.9	1502.8	10.1	1507.4	12.2	1507.4	12.2	99.5
-18MT-20 Spot 226	418	94891	3.4	10.6354	0.8	3.1900	1.8	0.2462	1.6	0.88	1418.7	20.1	1454.7	13.8	1507.8	16.0	1507.8	16.0	94.1
-18MT-20 Spot 192	141	40568	1.7	10.6184	0.7	3.1034	1.1	0.2391	0.9	0.79	1382.1	11.1	1433.5	8.6	1510.8	12.9	1510.8	12.9	91.5
-18MT-20 Spot 63	150	68529	1.7	10.5296	0.7	3.4404	1.0	0.2628	0.7	0.73	1504.4	9.3	1513.7	7.5	1526.6	12.4	1526.6	12.4	98.5
-18MT-20 Spot 206	101	244879	1.2	10.3117	0.9	3.5479	1.2	0.2655	0.9	0.70	1517.7	11.6	1538.0	9.7	1555.9	16.4	1555.9	16.4	96.9
-18MT-20 Spot 68	185	27725	2.0	10.0245	0.6	3.9088	1.2	0.2843	1.0	0.85	1613.0	14.4	1615.9	9.6	1618.7	11.7	1618.7	11.7	96.7
-18MT-20 Spot 92	51	28127	2.0	9.8493	0.8	4.0306	1.3	0.2880	1.0	0.78	1631.8	14.1	1640.4	10.2	1651.5	14.6	1651.5	14.6	98.8
-18MT-20 Spot 294	155	48778	1.8	9.8070	0.7	4.1504	1.1	0.2953	0.8	0.75	1668.1	12.3	1684.3	9.1	1659.4	13.5	1659.4	13.5	100.5
-18MT-20 Spot 220	515	1321015	1.1	9.7860	0.7	4.0912	1.4	0.2905	1.2	0.85	1644.0	16.9	1652.5	11.1	1663.4	13.2	1663.4	13.2	98.8
-18MT-20 Spot 248	134	47070	1.8	9.7662	0.7	4.2157	1.3	0.2988	1.1	0.86	1685.5	16.7	1677.1	10.8	1686.6	12.5	1686.6	12.5	101.1
-18MT-20 Spot 254	174	33083	1.8	9.7528	0.8	4.1530	1.0	0.2939	0.8	0.81	1680.9	12.3	1684.8	8.5	1689.7	11.2	1689.7	11.2	99.5
-18MT-20 Spot 229	93	45656	1.7	9.7452	0.7	4.2436	1.1	0.3001	0.9	0.81	1691.6	13.6	1682.5	9.3	1671.1	12.2	1671.1	12.2	101.2
-18MT-20 Spot 143	900	833814	4.0	9.7427	0.7	4.0396	1.4	0.2856	1.2	0.86	1619.3	17.0	1642.2	11.3	1671.6	13.2	1671.6	13.2	98.9
-18MT-20 Spot 40	24	8097	5.1	9.7305	1.3	3.6011	1.7	0.2542	1.1	0.63	1460.3	14.1	1549.8	13.6	1673.9	24.7	1673.9	24.7	87.2
-18MT-20 Spot 289	180	111146	4.1	9.7223	0.8	4.2441	1.2	0.2994	1.1	0.88	1688.3	16.3	1682.6	10.2	1675.9	10.9	1675.9	10.9	100.8
-18MT-20 Spot 3	100	125121	3.5	9.7055	0.8	4.1685	1.2	0.2936	0.8	0.71	1659.3	12.1	1667.9	9.6	1678.7	15.3	1678.7	15.3	98.8
-18MT-20 Spot 84	148	145236	1.6	9.6933	0.7	4.4050	1.3	0.3098	1.0	0.82	1739.8	15.8	1713.3	10.4	1681.0	13.1	1681.0	13.1	103.5
-18MT-20 Spot 167	138	185410	1.8	9.6824	0.6	4.2362	1.1	0.2978	0.9	0.62	1680.5	13.4	1681.6	9.0	1683.1	11.5	1683.1	11.5	99.8
-18MT-20 Spot 210	286	175236	1.6	9.6603	0.6	4.2192	1.1	0.2957	1.0	0.86	1670.1	14.2	1677.8	9.2	1687.3	10.5	1687.3	10.5	99.0
-18MT-20 Spot 115	219	130987	2.0	9.6560	0.7	4.3960	1.3	0.3083	1.1	0.84	1732.3	16.1	1712.1	10.5	1687.5	12.6	1687.5	12.6	102.7
-18MT-20 Spot 183	165	167127	2.3	9.6520	0.7	4.2480	1.1	0.2975	0.9	0.80	1678.9	12.9	1683.3	9.0	1688.9	12.2	1688.9	12.2	99.4
-18MT-20 Spot 62	492	118173	1.8	9.6322	0.6	4.3419	1.4	0.3035	1.2	0.91	1708.4	18.7	1701.4	11.3	1692.7	10.3	1692.7	10.3	100.9
-18MT-20 Spot 74	105	69452	3.2	9.6241	0.7	4.2619	1.4	0.2976	1.2	0.86	1679.5	17.8	1696.0	11.5	1694.2	13.0	1694.2	13.0	99.1
-18MT-20 Spot 86	163	21314	1.8	9.6181	0.7	4.3151	1.3	0.3011	1.1	0.82	1696.9	15.8	1696.2	10.8	1695.4	13.6	1695.4	13.6	100.1
-18MT-20 Spot 158	155	33836	2.4	9.6169	0.7	4.3689	1.1	0.3047	0.8	0.76	1714.6	12.4	1706.1	8.9	1695.6	13.0	1695.6	13.0	101.1
-18MT-20 Spot 240	168	56133	4.3	9.6095	0.6	4.3196	1.2	0.3012	1.1	0.86	1697.2	16.0	1697.1	10.2	1697.0	11.5	1697.0	11.5	100.0
-18MT-20 Spot 67	330	126191	1.9	9.6056	0.5	4.3343	1.2	0.3021	1.1	0.92	1701.6	16.6	1699.9	10.0	1697.8	8.8	1697.8	8.8	100.2
-18MT-20 Spot 77	218	76268	1.8	9.5954	0.7	4.4340	1.2	0.3087	0.9	0.80	1734.3	14.3	1718.7	9.8	1699.7	13.1	1699.7	13.1	102.0
-18MT-20 Spot 81	178	42282	3.8	9.5870	0.8	4.2386	1.2	0.2948	0.9	0.78	1665.7	13.8	1681.5	9.8	1701.3	13.8	1701.3	13.8	97.9
-18MT-20 Spot 10	10	32891	4.0	9.5777	1.5	3.9650	2.1	0.2755	1.5	0.71	1568.9	20.8	1627.1	17.1	1703.1	27.4	1703.1	27.4	82.1
-18MT-20 Spot 113	100	70861	1.4	9.5685	0.7	4.4125	1.1	0.3064	0.9	0.78	1722.9	12.9	1714.7	8.0	1704.7	12.6	1704.7	12.6	101.1
-18MT-20 Spot 219	218	213933	3.1	9.5617	0.8	4.3510	1.3	0.3019	1.0	0.79	1700.6	14.9	1703.1	10.4	1706.2	14.3	1706.2	14.3	99.7
-18MT-20 Spot 11	296	53771	3.6	9.5558	0.8	4.3537	1.1	0.3019	1.0	0.86	1700.5	14.3	1703.6	9.1	1707.3	10.3	1707.3	10.3	99.6
-18MT-20 Spot 216	166	59626	3.1	9.5567	0.6	4.3721	1.1	0.3031	0.9	0.81	1706.8	13.1	1707.1	8.9	1707.3	11.6	1707.3	11.6	100.0
-18MT-20 Spot 200	104	29862	1.3	9.5482	0.6	4.2314	1.3	0.2932	1.1	0.88	1657.3	16.1	1680.1	10.3	1708.8	11.1	1708.8	11.1	97.0
-18MT-20 Spot 146	157	73445	1.6	9.5450	0.6	4.3137	1.1	0.2988	0.9	0.83	1685.1	14.0	1696.0	9.4	1709.4	11.8	1709.4	11.8	98.6
-18MT-20 Spot 138	172	34202	2.7	9.5403	0.6	4.4136	1.1	0.3055	1.0	0.86	1718.6	14.7	1714.9	9.4	1710.3	10.8	1710.3	10.8	100.5
-18MT-20 Spot 295	189	682945	2.7	9.5381	0.5	4.3003	1.3	0.2976	1.2	0.91	1679.4	17.2	1693.4	10.6	1710.7	9.9	1710.7	9.9	98.2
-18MT-20 Spot 258	235	904593	3.8	9.5242	0.8	4.3741	1.4	0.3073	1.2	0.94	1702.6	18.1	1707.5	11.9	1713.4	14.3	1713.4	14.3	99.4
-18MT-20 Spot 225	149	87995	2.4	9.5194	0.5	4.4502	1.1	0.3074	0.9	0.87	1727.8	14.2	1721.7	8.9	1714.3	9.6	1714.3	9.6	100.8
-18MT-20 Spot 208	186	40320	2.5	9.5183	0.6	4.3372	1.1	0.2995	0.9	0.84	1689.0	13.6	1700.9	9.0	1714.6	10.8	1714.6	10.8	98.5
-18MT-20 Spot 243	284	105262	1.6	9.5168	0.7	4.3853	1.2	0.3028	1.0	0.81	1705.3	14.3	1709.6	9.8	1714.9	12.9	1714.9	12.9	99.4
-18MT-20 Spot 283	235	131054	8.0	9.5133	0.6	4.3333	1.1	0.2991	0.9	0.94	1686.9	13.8	1699.7	12.2	1715.5	11.2	1715.5	11.2	98.3
-18MT-20 Spot 118	285	93095	1.9	9.5082	0.8	4.0287	1.6	0.2775	1.4	0.91	1580.4	19.8	1639.6	12.8	1716.3	11.8	1716.3	11.8	82.1
-18MT-20 Spot 38	274	382444	2.1	9.5080	0.6	4.3006	1.0	0.2967	0.8	0.80	1674.9	11.5	1683.5	8.0	1716.6	10.7	1716.6	10.7	97.6
-18MT-20 Spot 44	385	157636	1.2	9.5050	0.5	4.3936	1.2	0.3030	1.1	0.91	1708.4	18.3	1711.1	9.8	1716.9	8.9	1716.9	8.9	99.4
-18MT-20 Spot 174	314	50637	3.5	9.5047	0.7	4.5104	1.4	0.3111	1.2	0.89	1745.9	18.3	1732.9	9.8	1717.2	13.0	1717.2	13.0	101.7
-18MT-20 Spot 4	315	86044	1.1	9.5027	0.5	4.3097	1.1	0.2972	1.0	0.88	1677.2	14.6	1695.2	9.3	1717.6	9.9	1717.6	9.9	97.6
-18MT-20 Spot 291	213	43168	2.1	9.5008	0.7	4.2905	1.3	0.2968	1.1	0.86	1670.3	16.2	1691.5	10.6	1718.0	12.2	1718.0	12.2	97.2
-18MT-20 Spot 227	165	62029	3.1	9.5003	0.6	4.4051	1.1	0.3037	0.9	0.84	1708.4	13.4	1713.3	8.7	1718.0	10.5	1718.0	10.5	99.5
-18MT-20 Spot 302	226	258262	3.																

-18MT-20 Spot 205	347	92852	3.8	9.4342	0.7	4.3698	1.1	0.2991	0.8	0.76	1687.0	11.9	1706.6	8.7	1730.9	12.6	1730.9	12.8	97.5
-18MT-20 Spot 309	371	30480	2.6	9.4260	0.6	3.5880	1.8	0.2454	1.7	0.94	1414.7	21.4	1546.9	14.2	1732.5	11.2	1732.5	11.2	81.7
-18MT-20 Spot 36	214	75576	7.3	9.4214	0.5	4.3229	1.2	0.2955	1.1	0.90	1669.0	16.1	1697.7	10.0	1733.4	9.7	1733.4	9.7	96.3
-18MT-20 Spot 103	269	537779	3.2	9.4204	0.5	4.4415	1.1	0.3036	1.0	0.89	1709.1	14.7	1720.1	9.1	1733.6	9.1	1733.6	9.1	96.6
-18MT-20 Spot 144	224	51656	2.1	9.4151	0.6	4.4299	1.1	0.3026	0.9	0.84	1704.3	13.7	1717.9	9.1	1734.6	11.0	1734.6	11.0	98.3
-18MT-20 Spot 267	175	254658	1.8	9.4145	0.6	4.4401	1.1	0.3033	1.0	0.83	1707.7	14.4	1719.9	9.5	1734.7	11.6	1734.7	11.6	96.4
-18MT-20 Spot 279	165	82345	2.5	9.4103	0.6	4.4125	1.3	0.3013	1.2	0.88	1697.7	17.3	1714.7	10.9	1735.5	11.3	1735.5	11.3	97.8
-18MT-20 Spot 2	190	281854	1.5	9.4102	0.8	4.3946	1.1	0.3001	0.9	0.83	1691.6	13.9	1711.3	9.4	1735.5	11.7	1735.5	11.7	97.5
-18MT-20 Spot 306	636	98877	4.5	9.3932	0.8	4.3040	1.4	0.2934	1.2	0.94	1658.5	17.2	1694.3	11.6	1738.9	14.1	1738.9	14.1	95.4
-18MT-20 Spot 21	315	106836	1.9	9.3819	0.5	4.4154	1.0	0.3008	0.9	0.84	1694.1	12.7	1715.2	8.4	1741.1	10.0	1741.1	10.0	97.3
-18MT-20 Spot 126	366	44923	3.0	9.3812	0.6	4.5355	1.3	0.3087	1.1	0.88	1734.4	17.2	1737.5	10.7	1741.2	11.2	1741.2	11.2	96.6
-18MT-20 Spot 28	223	90413	1.4	9.3786	0.6	4.3775	1.0	0.2979	0.8	0.76	1680.8	11.8	1708.1	8.4	1741.7	11.6	1741.7	11.6	96.5
-18MT-20 Spot 188	254	66168	2.2	9.3773	0.7	4.4423	1.0	0.3023	0.7	0.74	1702.5	11.1	1720.3	8.3	1742.0	12.4	1742.0	12.4	97.7
-18MT-20 Spot 121	390	220466	1.7	9.3761	0.8	4.4576	1.5	0.3033	1.3	0.84	1707.4	19.2	1723.1	12.7	1742.2	15.3	1742.2	15.3	98.0
-18MT-20 Spot 131	200	32979	2.4	9.3733	0.6	4.6108	1.1	0.3136	1.0	0.85	1758.3	14.6	1751.2	9.3	1742.7	10.7	1742.7	10.7	100.9
-18MT-20 Spot 7	372	119760	2.8	9.3706	0.5	4.3513	1.1	0.2959	1.0	0.89	1670.7	15.0	1703.1	9.5	1743.3	9.7	1743.3	9.7	95.8
-18MT-20 Spot 41	163	33494	3.5	9.3680	0.5	4.5336	0.9	0.3082	0.8	0.85	1731.6	11.5	1737.1	7.3	1743.8	8.3	1743.8	8.3	99.3
-18MT-20 Spot 57	147	52494	1.8	9.3613	0.7	4.3189	1.4	0.2834	1.2	0.85	1658.3	17.0	1697.0	11.2	1745.1	13.1	1745.1	13.1	95.0
-18MT-20 Spot 8	311	87276	2.5	9.3583	0.6	4.5517	1.1	0.3091	0.9	0.82	1736.1	13.5	1740.5	9.0	1745.7	11.2	1745.7	11.2	99.5
-18MT-20 Spot 40	325	64088	2.2	9.3556	0.7	4.4008	1.0	0.2987	0.7	0.72	1685.0	10.2	1712.5	7.9	1746.2	12.2	1746.2	12.2	96.5
-18MT-20 Spot 241	169	61445	2.9	9.3534	0.7	4.5480	1.1	0.3087	0.8	0.76	1734.1	12.7	1739.8	8.9	1746.6	12.3	1746.6	12.3	99.3
-18MT-20 Spot 179	121	74107	2.5	9.3521	0.8	4.5805	0.9	0.3108	0.7	0.74	1744.8	10.5	1745.7	7.7	1746.9	11.3	1746.9	11.3	99.9
-18MT-20 Spot 17	369	101003	2.2	9.3450	0.6	4.4755	1.1	0.3035	0.9	0.86	1708.5	14.0	1726.4	9.0	1748.3	10.3	1748.3	10.3	97.7
-18MT-20 Spot 110	209	413412	2.9	9.3368	0.7	4.4859	1.1	0.3039	0.8	0.77	1710.8	12.6	1728.4	9.0	1749.9	12.7	1749.9	12.7	97.8
-18MT-20 Spot 140	97	42587	0.5	9.3309	0.6	4.5989	1.2	0.3114	1.1	0.87	1747.4	16.4	1749.1	10.3	1751.0	11.3	1751.0	11.3	99.8
-18MT-20 Spot 234	178	50350	2.3	9.3278	0.6	4.5615	1.1	0.3087	1.0	0.86	1734.4	14.8	1742.3	9.5	1751.7	10.8	1751.7	10.8	99.0
-18MT-20 Spot 257	185	35650	2.7	9.3226	0.6	4.5491	1.1	0.3077	0.9	0.85	1729.5	14.2	1740.0	9.1	1752.7	10.5	1752.7	10.5	98.7
-18MT-20 Spot 300	290	47920	2.9	9.3189	0.7	4.3732	1.2	0.2957	1.0	0.81	1670.0	14.5	1707.3	10.1	1753.4	13.1	1753.4	13.1	95.2
-18MT-20 Spot 160	208	564841	1.2	9.3125	0.5	4.6182	1.0	0.3121	0.8	0.85	1750.8	12.8	1752.6	8.1	1754.7	9.2	1754.7	9.2	99.8
-18MT-20 Spot 290	182	152534	1.6	9.2966	0.7	4.6344	1.0	0.3126	0.8	0.72	1753.5	11.5	1755.5	8.7	1757.8	13.3	1757.8	13.3	99.8
-18MT-20 Spot 37	387	73655	2.9	9.2862	0.6	4.4224	1.3	0.2981	1.1	0.88	1681.7	16.4	1716.5	10.4	1759.2	11.1	1759.2	11.1	95.6
-18MT-20 Spot 164	147	64101	2.5	9.2831	0.6	4.5689	1.3	0.3076	1.0	0.80	1728.9	15.5	1743.2	10.6	1760.4	13.9	1760.4	13.9	98.2
-18MT-20 Spot 297	353	63016	1.8	9.2773	0.6	4.5814	1.2	0.3084	1.0	0.85	1732.8	15.0	1746.9	9.7	1761.6	11.2	1761.6	11.2	98.4
-18MT-20 Spot 312	406	924066	4.4	9.2731	0.7	4.5958	1.4	0.3092	1.2	0.87	1736.9	18.1	1748.5	11.4	1762.4	12.2	1762.4	12.2	96.0
-18MT-20 Spot 175	274	73399	3.8	9.2665	0.7	4.3606	1.6	0.2932	1.4	0.89	1657.4	20.5	1704.9	13.1	1763.7	13.4	1763.7	13.4	94.6
-18MT-20 Spot 223	253	27037	4.5	9.2603	0.7	4.3637	1.3	0.2952	1.2	0.87	1667.5	17.2	1711.1	11.1	1764.9	12.1	1764.9	12.1	94.5
-18MT-20 Spot 128	199	45390	3.1	9.2416	0.5	4.6705	1.0	0.3132	0.9	0.85	1756.3	13.6	1762.0	8.6	1768.6	9.6	1768.6	9.6	99.3
-18MT-20 Spot 46	137	203817	6.4	9.2332	0.6	4.6738	1.1	0.3131	1.0	0.85	1756.0	14.8	1762.6	9.4	1770.3	10.8	1770.3	10.8	99.2
-18MT-20 Spot 196	33	117896	4.0	9.2314	0.8	4.6180	1.4	0.3092	1.1	0.82	1736.7	17.4	1752.2	11.6	1770.6	14.5	1770.6	14.5	98.1
-18MT-20 Spot 249	103	47158	4.3	9.2241	0.8	4.6352	1.3	0.3102	1.0	0.77	1741.8	14.7	1755.6	10.5	1772.1	14.6	1772.1	14.6	98.3
-18MT-20 Spot 244	170	63749	2.5	9.2215	0.6	4.6235	1.2	0.3227	1.0	0.87	1803.1	15.9	1789.0	9.8	1772.6	10.8	1772.6	10.8	101.7
-18MT-20 Spot 253	90	61240	3.0	9.2201	0.8	4.7117	1.1	0.3152	0.9	0.82	1768.3	14.0	1769.3	9.3	1772.9	11.7	1772.9	11.7	99.6
-18MT-20 Spot 122	100	26242	5.6	9.2192	0.6	4.7716	1.1	0.3192	0.9	0.82	1785.7	14.2	1779.9	9.3	1773.1	11.7	1773.1	11.7	100.7
-18MT-20 Spot 169	880	1079833	2.8	9.2084	0.8	4.4128	1.3	0.2948	1.1	0.80	1685.7	15.8	1714.7	10.9	1775.2	14.4	1775.2	14.4	93.8
-18MT-20 Spot 109	528	40150	2.3	9.1988	0.5	4.3108	1.3	0.2877	1.2	0.93	1630.1	17.2	1665.4	10.6	1777.1	8.6	1777.1	8.6	91.7
-18MT-20 Spot 93	191	42354	2.3	9.1955	0.8	4.7497	1.1	0.3169	0.8	0.72	1774.6	12.3	1776.1	9.3	1777.8	14.0	1777.8	14.0	99.8
-18MT-20 Spot 178	210	71336	4.5	9.1937	0.6	4.8016	1.0	0.3203	0.8	0.79	1791.2	12.9	1785.2	8.8	1778.1	11.7	1778.1	11.7	100.7
-18MT-20 Spot 311	290	79965	2.0	9.1936	0.6	4.7006	1.2	0.3136	1.1	0.88	1758.2	16.5	1767.3	10.2	1778.1	10.7	1778.1	10.7	99.9
-18MT-20 Spot 268	393	376835	1.9	9.1915	0.6	4.6113	1.4	0.3075	1.2	0.89	1728.6	18.3	1751.3	11.3	1778.5	11.4	1778.5	11.4	97.2
-18MT-20 Spot 111	236	64567	1.1	9.1900	0.6	4.6524	1.1	0.3102	0.9	0.82	1741.8	13.7	1758.7	9.2	1778.8	11.4	1778.8	11.4	97.9
-18MT-20 Spot 207	438	28026	7.5	9.1878	0.5	4.2202	1.3	0.2813	1.2	0.90	1598.1	16.5	1678.0	10.6	1779.0	10.0	1779.0	10.0	89.8
-18MT-20 Spot 230	430	141490	3.3	9.1781	0.6	4.7629	1.3	0.3172	1.1	0.89	1776.0	17.4	1778.4	10.5	1781.2	10.2	1781.2	10.2	99.7
-18MT-20 Spot 90	105	26331	4.2	9.1778	0.7	4.9544	1.3	0.3296	1.1	0.85	1838.0	17.1	1811.6	10.6	1781.3	11.9	1781.3	11.9	103.2
-18MT-20 Spot 18	334	84122	1.8	9.1763	0.5	4.7182	1.1	0.3141	1.0	0.81	1761.1	15.1	1770.5	9.1	1781.6	8.3	1781.6	8.3	98.8
-18MT-20 Spot 28	336	1231514	3.3	9.1752	0.6	4.7158	1.2	0.3140	1.0	0.86	1760.1	15.3	1770.1	9.7	1781.8	10.8	1781.8	10.8	98.8
-18MT-20 Spot 120	203	136662	2.3	9.1675	0.7	4.6105	1.1	0.3067	0.9	0.79	1724.3	13.1	1751.2	9.2	1783.3	12.3	1783.3	12.3	99.7
-18MT-20 Spot 10	374	135098	1.9	9.1613	0.8	4.8435	1.1	0.3220	1.0	0.85	1799.3	14.9	1792.5	9.4	1784.5	10.7	1784.5	10.7	100.8
-18MT-20 Spot 78	370	65359	3.5	9.1419	0.6	4.7352	1.3	0.3141	1.1	0.88	1760.8	17.8	1773.5	10.8	1788.4	11.0	1788.4	11.0	98.5
-18MT-20 Spot 13	237	289476	2.3	9.1415	0.7	4.7073	1.2	0.3122	0.9	0.80	1751.7	14.6	1768.5	9.9	1788.5	12.9	1788.5	12.9	97.9
-18MT-20 Spot 231	163	44726	2.7	9.1401	0.8	4.8008	1.2	0.3184	0.9	0.76	1781.8	14.2	1785.0	10.0	1788.8	14.1	1788.8	14.1	99.6
-18MT-20 Spot 270	186	68140	3.0	9.1400	0.6	4.7571	1.2	0.3155	1.0	0.85	1767.6	16.2	1777.4	10.3	1788.8	11.8	1788.8	11.8	98.8
-18MT-20 Spot 168	202	62003	2.3	9.1314	0.7	4.5895													

-18MT-20 Spot 142	333	101925	2.5	8.7603	0.6	5.2376	1.3	0.3329	1.2	0.90	1852.5	19.4	1858.8	11.5	1865.7	10.8	1865.7	10.8	96.3
-18MT-20 Spot 182	137	88155	2.6	8.6223	0.8	5.2345	1.2	0.3275	0.9	0.78	1828.1	15.1	1858.2	10.3	1894.3	13.6	1894.3	13.6	96.4
-18MT-20 Spot 237	649	218551	4.8	8.5474	0.8	5.3107	1.3	0.3294	1.0	0.81	1835.3	16.8	1870.6	11.1	1910.0	13.7	1910.0	13.7	96.1
-18MT-20 Spot 73	127	36271	1.6	8.5453	0.6	5.5742	1.1	0.3456	0.9	0.81	1913.6	14.5	1912.1	9.3	1910.5	11.4	1910.5	11.4	100.2
-18MT-20 Spot 9	269	662558	2.4	8.4427	0.5	5.4494	0.9	0.3338	0.7	0.78	1856.9	11.0	1892.7	7.5	1932.1	9.7	1932.1	9.7	96.1
-18MT-20 Spot 27	97	78984	1.8	8.4233	0.7	5.6411	1.2	0.3448	1.0	0.80	1809.6	16.2	1822.4	10.5	1936.2	13.0	1936.2	13.0	96.6
-18MT-20 Spot 42	539	101774	2.3	8.4195	0.6	5.3012	1.1	0.3239	0.9	0.86	1808.5	14.8	1869.1	9.3	1937.0	10.0	1937.0	10.0	93.4
-18MT-20 Spot 29	195	241235	3.5	8.4078	0.5	5.8822	0.9	0.3588	0.7	0.83	1878.7	12.4	1958.6	7.6	1939.6	6.7	1939.6	6.7	101.9
-18MT-20 Spot 221	407	173426	1.1	8.2288	0.5	5.6929	1.1	0.3399	1.0	0.90	1886.2	16.6	1930.3	9.8	1977.9	9.0	1977.9	9.0	95.4
-18MT-20 Spot 305	84	37721	1.9	8.2084	0.6	5.8323	1.2	0.3474	1.0	0.88	1922.0	17.2	1951.2	10.2	1982.4	10.0	1982.4	10.0	97.0
-18MT-20 Spot 105	314	154344	1.5	8.0656	0.6	6.2380	1.1	0.3651	0.9	0.83	2006.1	16.1	2009.8	9.8	2013.5	11.0	2013.5	11.0	99.6
-18MT-20 Spot 191	275	103999	1.9	8.0088	0.6	6.2988	1.2	0.3660	1.0	0.87	2010.7	17.9	2018.3	10.4	2026.1	10.3	2026.1	10.3	99.2
-18MT-20 Spot 247	187	218570	2.3	7.9265	0.7	6.6137	1.3	0.3804	1.1	0.86	2078.0	20.4	2051.2	11.8	2044.3	12.2	2044.3	12.2	101.8
-18MT-20 Spot 201	134	136362	2.7	7.7754	0.6	6.7551	1.2	0.3811	1.0	0.84	2081.4	18.2	2079.9	10.7	2078.3	11.4	2078.3	11.4	100.2
-18MT-20 Spot 276	75	63524	2.0	7.7071	0.7	6.7812	1.3	0.3792	1.1	0.85	2072.6	19.4	2083.3	11.4	2093.8	12.0	2093.8	12.0	99.0
-18MT-20 Spot 163	41	253813	1.0	8.7253	0.8	8.8607	1.4	0.4226	1.1	0.81	2272.4	21.0	2303.0	12.3	2330.2	13.6	2330.2	13.6	97.5
-18MT-20 Spot 269	155	58149	2.9	8.4083	0.7	8.6783	1.3	0.4036	1.1	0.82	2185.2	20.0	2304.8	11.9	2412.5	12.6	2412.5	12.6	90.6
-18MT-20 Spot 22	81	59747	1.1	8.3971	0.7	9.3715	1.2	0.4350	1.0	0.83	2328.2	19.1	2375.0	10.8	2415.5	11.1	2415.5	11.1	96.4
-18MT-20 Spot 232	49	32698	0.8	8.2614	0.7	9.8994	1.1	0.4497	0.9	0.79	2393.9	17.2	2425.4	10.1	2451.8	11.5	2451.8	11.5	97.8
-18MT-20 Spot 301	165	161499	1.4	8.2256	0.7	10.1341	1.2	0.4578	1.0	0.83	2428.7	20.2	2447.1	11.1	2461.5	11.4	2461.5	11.4	98.7
-18MT-20 Spot 31	87	20131	2.7	8.2004	0.7	10.3207	1.1	0.4643	0.8	0.74	2458.6	16.5	2464.0	10.0	2468.4	12.2	2468.4	12.2	96.6
-18MT-20 Spot 82	217	279891	2.7	8.1784	0.7	10.2289	1.3	0.4588	1.1	0.86	2433.2	22.9	2455.7	12.1	2474.4	11.2	2474.4	11.2	98.3
-18MT-20 Spot 245	188	103939	2.8	6.1733	0.5	10.2687	1.1	0.4600	1.0	0.88	2438.4	20.5	2459.3	10.6	2475.8	9.2	2475.8	9.2	98.5
-18MT-20 Spot 159	40	13437	1.2	6.1560	1.0	9.7515	1.3	0.4358	0.9	0.85	2331.7	17.0	2411.6	12.3	2479.7	17.2	2479.7	17.2	94.0
-18MT-20 Spot 271	208	308346	2.6	6.1574	0.5	10.4613	1.2	0.4674	1.1	0.90	2472.1	22.7	2476.5	11.4	2480.1	9.2	2480.1	9.2	99.7
-18MT-20 Spot 149	239	209714	2.2	6.1471	4.9	9.6481	5.2	0.4302	1.5	0.28	2306.8	28.4	2401.6	47.5	2493.0	83.5	2493.0	83.5	92.9
-18MT-20 Spot 94	457	115390	3.2	6.1104	0.5	10.4129	1.4	0.4617	1.3	0.92	2446.9	26.3	2472.2	12.9	2493.0	8.9	2493.0	8.9	98.1
-18MT-20 Spot 186	236	85094	2.5	6.1024	0.6	10.6147	0.9	0.4700	0.6	0.70	2483.6	12.9	2490.0	8.3	2495.2	10.7	2495.2	10.7	96.5
-18MT-20 Spot 194	201	174239	3.1	6.0620	0.6	10.5489	1.0	0.4640	0.8	0.80	2457.1	16.1	2484.2	9.1	2506.4	9.9	2506.4	9.9	98.0
-18MT-20 Spot 6	279	77010	2.3	6.0507	0.6	10.4642	1.1	0.4594	0.9	0.83	2438.9	18.6	2478.7	10.2	2509.6	10.4	2509.6	10.4	97.1
-18MT-20 Spot 165	342	389044	2.0	6.0479	0.6	10.5048	1.7	0.4610	1.6	0.94	2443.9	33.1	2480.3	16.1	2510.3	10.3	2510.3	10.3	97.4
-18MT-20 Spot 284	87	53248	1.8	6.0105	1.1	10.8440	2.7	0.4729	2.5	0.92	2498.4	51.1	2509.8	25.1	2520.8	18.2	2520.8	18.2	99.0
-18MT-20 Spot 47	360	328522	2.2	5.7896	0.8	11.2448	1.1	0.4724	1.0	0.86	2494.0	20.2	2543.6	10.6	2583.5	9.6	2583.5	9.6	96.5
-18MT-20 Spot 75	268	486787	3.8	5.6926	0.5	11.9595	1.1	0.4940	0.9	0.81	2567.9	18.9	2601.2	10.2	2611.6	10.5	2611.6	10.5	96.1
-18MT-20 Spot 69	291	191576	1.8	5.6707	0.5	11.9114	1.0	0.4901	0.9	0.87	2571.1	18.8	2597.5	9.5	2618.1	8.2	2618.1	8.2	98.2
-18MT-20 Spot 211	284	101483	1.0	5.5205	0.6	12.4708	1.3	0.4966	1.1	0.88	2611.8	23.9	2640.5	11.8	2662.6	9.7	2662.6	9.7	98.1
-18MT-20 Spot 50	87	65889	1.4	5.4890	0.8	12.4429	0.9	0.4966	0.7	0.78	2594.7	15.8	2638.4	8.8	2672.1	9.7	2672.1	9.7	97.1
-18MT-20 Spot 150	172	278086	1.4	5.4836	0.5	12.7741	1.0	0.5083	0.9	0.86	2649.2	19.5	2663.1	9.9	2673.7	8.9	2673.7	8.9	99.1
-18MT-20 Spot 61	157	301443	0.7	5.4753	0.8	12.6455	1.1	0.5024	0.8	0.74	2624.0	17.9	2653.6	10.6	2676.2	12.5	2676.2	12.5	98.0
-18MT-20 Spot 235	108	60368	2.9	5.4557	0.6	13.1478	1.3	0.5205	1.1	0.89	2701.1	24.7	2690.3	11.8	2682.2	9.3	2682.2	9.3	100.7
-18MT-20 Spot 242	158	117118	0.7	5.4380	0.7	12.8212	1.3	0.5059	1.0	0.82	2638.1	22.7	2666.6	12.1	2687.5	12.2	2687.5	12.2	98.2
-18MT-20 Spot 25	232	153207	2.0	5.4205	0.7	12.9377	1.3	0.5088	1.0	0.83	2651.7	22.5	2675.1	11.8	2692.9	11.6	2692.9	11.6	98.5
-18MT-20 Spot 137	188	41191	0.6	5.4184	0.5	13.1203	1.0	0.5158	0.9	0.85	2681.5	19.5	2668.3	9.8	2693.5	9.0	2693.5	9.0	99.6
-18MT-20 Spot 19	278	183574	1.3	5.4170	0.5	13.0328	1.2	0.5123	1.1	0.90	2688.3	23.7	2682.0	11.4	2693.9	8.9	2693.9	8.9	99.0
-18MT-20 Spot 213	211	86211	1.6	5.4123	0.6	13.2196	1.2	0.5191	1.0	0.85	2695.5	21.9	2685.5	11.0	2695.4	10.1	2695.4	10.1	100.0
-18MT-20 Spot 79	188	431364	0.9	5.4090	0.6	13.1801	1.2	0.5173	1.1	0.86	2687.6	23.5	2682.6	11.8	2696.4	10.5	2696.4	10.5	99.7
-18MT-20 Spot 64	598	633808	3.6	5.4037	0.6	12.4499	1.1	0.4881	0.9	0.86	2562.6	19.8	2638.9	10.1	2698.0	9.2	2698.0	9.2	95.0
-18MT-20 Spot 83	89	116032	1.2	5.4015	0.6	13.0147	1.0	0.5101	0.8	0.79	2657.0	16.7	2680.7	9.2	2698.7	10.0	2698.7	10.0	98.5
-18MT-20 Spot 5	133	427861	1.3	5.3922	0.5	13.1704	1.0	0.5153	0.9	0.88	2679.2	19.7	2691.9	9.6	2701.5	8.0	2701.5	8.0	99.2
-18MT-20 Spot 252	204	942968	1.0	5.3833	0.5	13.0685	1.1	0.5104	1.0	0.89	2658.3	21.2	2684.5	10.3	2704.2	8.3	2704.2	8.3	98.3
-18MT-20 Spot 153	360	287952	1.5	5.3710	0.6	13.2239	1.2	0.5184	1.0	0.85	2679.5	21.9	2685.8	11.0	2708.0	10.0	2708.0	10.0	98.9
-18MT-20 Spot 288	109	55984	0.9	5.3689	0.6	13.3118	1.0	0.5186	0.8	0.82	2693.1	17.9	2702.0	9.4	2708.7	9.5	2708.7	9.5	99.4
-18MT-20 Spot 265	230	105677	1.3	5.3618	0.7	13.2732	1.3	0.5164	1.1	0.86	2683.8	24.7	2699.3	12.4	2710.8	11.0	2710.8	11.0	99.0
-18MT-20 Spot 292	376	205090	2.4	5.3459	0.7	12.9519	1.5	0.5024	1.3	0.89	2624.1	29.1	2676.2	14.2	2715.8	11.2	2715.8	11.2	96.6
-18MT-20 Spot 98	332	144892	4.6	5.3447	0.6	12.1320	1.2	0.4705	1.0	0.85	2485.7	20.6	2614.7	11.1	2716.1	10.4	2716.1	10.4	91.5
-18MT-20 Spot 203	336	132762	2.4	5.3364	0.6	13.1988	1.2	0.5111	1.0	0.86	2661.1	21.8	2694.0	11.0	2718.7	9.9	2718.7	9.9	97.9
-18MT-20 Spot 278	417	250632	1.9	5.3114	0.7	13.0349	1.5	0.5023	1.3	0.86	2623.9	27.3	2682.2	13.8	2726.4	12.1	2726.4	12.1	96.2
-18MT-20 Spot 53	93	233554	1.0	5.2977	0.6	13.2952	1.4	0.5111	1.2	0.89	2661.1	26.2	2700.8	12.8	2730.7	10.2	2730.7	10.2	97.5
-18MT-20 Spot 114	41	58559	1.2	5.2943	0.5	13.7230	1.2	0.5272	1.1	0.89	2729.5	24.2	2730.8	11.5	2731.7	9.0	2731.7	9.0	99.9
-18MT-20 Spot 193	120	165122	1.3	5.2708	0.6	13.9062	1.0	0.5318	0.8	0.81	2749.2	17.3	2743.3	9.0	2739.0	9.1	2739.0	9.1	100.4
-18MT-20 Spot 56	525	406801	0.9	5.2527	0.6	13.0576	1.4	0.4977	1.3	0.90	2603.7	27.9	2683.8	13.7	2744.7	10.4	2744.7	10.4	94.9
-18MT-20 Spot 185	146	198859																	

-MC-21 Spot 240	168	14602	1.9	18.5710	1.4	0.4837	1.8	0.0652	1.0	0.58	407.0	4.0	400.6	5.8	363.7	32.3	407.0	4.0	111.9
-MC-21 Spot 172	190	14606	1.8	17.8613	1.1	0.5139	1.7	0.0666	1.3	0.77	415.6	5.4	421.0	6.0	450.9	24.7	415.6	5.4	92.2
-MC-21 Spot 206	396	38985	0.8	17.7807	0.9	0.5194	1.9	0.0670	1.6	0.87	418.1	6.5	424.7	6.4	480.9	20.3	418.1	6.5	90.7
-MC-21 Spot 9	562	675052	6.5	17.9683	0.8	0.5146	1.6	0.0671	1.4	0.85	418.6	5.5	421.6	5.8	437.8	18.9	418.6	5.5	95.6
-MC-21 Spot 201	235	51400	0.9	17.8222	1.0	0.5226	1.4	0.0680	1.0	0.73	423.9	4.2	426.9	4.9	443.3	21.3	423.9	4.2	95.6
-MC-21 Spot 284	177	63197	1.6	18.1348	1.1	0.5170	1.4	0.0680	0.9	0.85	424.3	3.9	423.1	5.0	417.0	24.6	424.3	3.9	101.7
-MC-21 Spot 153	628	73502	2.1	18.1970	0.8	0.5165	1.7	0.0682	1.5	0.88	425.3	6.2	422.8	5.9	409.4	18.3	425.3	6.2	103.9
-MC-21 Spot 133	285	56540	2.7	18.1664	1.0	0.5177	1.6	0.0682	1.2	0.78	425.5	5.0	423.6	5.5	413.1	22.3	425.5	5.0	103.0
-MC-21 Spot 22	311	77226	1.6	17.8341	0.9	0.5258	2.2	0.0684	2.0	0.91	426.7	8.3	429.0	7.8	441.8	20.9	426.7	8.3	96.6
-MC-21 Spot 204	318	29709	1.5	18.4424	0.8	0.5134	1.3	0.0687	1.0	0.79	428.3	4.1	420.7	4.3	379.3	17.2	428.3	4.1	112.9
-MC-21 Spot 148	624	72585	2.3	17.8038	0.6	0.5371	1.5	0.0694	1.3	0.92	432.4	5.6	436.5	5.2	458.0	12.8	432.4	5.6	94.4
-MC-21 Spot 298	438	24221	3.4	18.2533	0.9	0.5243	1.6	0.0694	1.3	0.83	432.8	5.6	428.0	5.7	402.5	20.4	432.8	5.6	107.5
-MC-21 Spot 107	108	6226	1.8	18.5427	2.3	0.5181	2.6	0.0697	1.0	0.40	434.4	4.3	423.9	8.8	367.1	52.7	434.4	4.3	118.3
-MC-21 Spot 199	323	431527	2.5	17.3878	1.0	0.5550	1.9	0.0700	1.6	0.85	436.3	6.6	448.2	6.7	510.2	21.7	436.3	6.6	85.5
-MC-21 Spot 4	376	54758	1.4	17.3042	1.1	0.5607	1.9	0.0704	1.5	0.81	438.5	6.3	452.0	6.8	520.8	24.1	438.5	6.3	84.2
-MC-21 Spot 43	662	182836	2.1	17.8204	0.8	0.5447	1.7	0.0705	1.5	0.88	439.0	6.5	441.6	6.3	454.9	18.6	439.0	6.5	96.5
-MC-21 Spot 271	251	29423	1.1	18.0835	1.2	0.5381	1.7	0.0706	1.2	0.69	439.8	5.0	437.2	6.1	423.3	27.7	439.8	5.0	103.9
-MC-21 Spot 302	56	29730	1.9	17.8764	1.5	0.5474	2.1	0.0710	1.5	0.71	442.2	6.4	443.3	7.8	449.0	33.4	442.2	6.4	98.5
-MC-21 Spot 72	398	32236	2.5	17.9779	1.1	0.5516	2.0	0.0720	1.7	0.85	447.9	7.4	446.1	7.3	436.4	23.7	447.9	7.4	102.6
-MC-21 Spot 108	287	15084	1.5	18.5220	0.9	0.5367	1.5	0.0721	1.2	0.80	449.0	5.3	436.3	5.4	369.6	20.9	449.0	5.3	121.5
-MC-21 Spot 106	228	22293	3.1	18.1162	1.0	0.5513	1.7	0.0725	1.3	0.81	451.0	5.8	445.9	6.0	419.3	22.0	451.0	5.8	107.6
-MC-21 Spot 215	796	82191	1.6	17.5409	0.8	0.5726	1.6	0.0729	1.4	0.88	453.5	6.2	450.7	5.9	490.9	18.7	453.5	6.2	82.4
-MC-21 Spot 154	240	6467	1.8	18.1355	0.9	0.5609	1.3	0.0738	1.0	0.73	450.0	4.3	452.1	4.9	416.9	20.4	450.0	4.3	110.1
-MC-21 Spot 156	125	147176	1.8	17.7851	1.1	0.5953	1.6	0.0768	1.1	0.71	477.1	5.1	474.2	6.0	460.4	24.6	477.1	5.1	103.6
-MC-21 Spot 80	343	477299	3.3	16.3630	1.4	0.6923	2.1	0.0824	1.6	0.75	510.1	7.8	534.2	8.9	638.4	30.8	510.1	7.8	79.9
-MC-21 Spot 130	241	38355	1.5	16.9420	0.9	0.7202	1.4	0.0885	1.0	0.75	546.8	5.5	550.9	5.9	567.1	20.1	546.8	5.5	96.4
-MC-21 Spot 48	46	15834	2.8	17.0757	1.9	0.7420	2.2	0.0919	1.1	0.49	566.9	5.8	563.6	9.4	549.9	41.1	566.9	5.8	103.1
-MC-21 Spot 299	429	49891	6.8	16.3412	0.9	0.8874	1.8	0.1052	1.5	0.87	644.9	9.4	645.0	8.4	645.2	18.9	644.9	9.4	100.0
-MC-21 Spot 311	553	174447	2.3	14.5765	0.7	1.3890	1.8	0.1466	1.6	0.91	883.6	13.4	884.3	10.5	885.9	14.9	883.6	13.4	99.7
-MC-21 Spot 128	479	238365	10.5	14.3385	0.9	1.4299	1.7	0.1498	1.4	0.84	894.0	11.9	901.5	10.2	919.9	19.0	919.9	10.2	97.2
-MC-21 Spot 47	132	21257	1.4	14.3074	0.7	1.4981	1.1	0.1555	0.9	0.76	931.9	7.5	929.6	7.0	924.3	15.4	934.3	15.4	100.8
-MC-21 Spot 254	146	406778	1.9	14.2211	0.9	1.5040	1.3	0.1552	0.8	0.67	930.0	7.3	932.0	7.7	936.7	19.4	936.7	19.4	99.3
-MC-21 Spot 123	131	45195	1.9	14.1757	1.0	1.5230	1.4	0.1567	1.0	0.71	938.2	8.8	939.7	8.8	943.3	20.6	943.3	20.6	99.5
-MC-21 Spot 259	126	13561	3.1	14.1265	0.8	1.5485	1.4	0.1587	1.1	0.83	949.6	9.9	949.9	8.4	950.4	15.7	950.4	15.7	99.9
-MC-21 Spot 144	377	158585	2.0	14.1236	0.7	1.4476	1.7	0.1483	1.6	0.91	891.7	12.9	908.9	10.2	950.9	14.2	950.9	14.2	93.8
-MC-21 Spot 132	155	230431	2.6	13.9882	0.8	1.5625	1.3	0.1616	1.0	0.75	965.8	8.6	967.3	8.0	970.5	17.3	970.5	17.3	99.5
-MC-21 Spot 113	111	30969	1.2	13.9313	0.9	1.6540	1.4	0.1672	1.1	0.77	996.6	10.1	991.1	9.0	978.8	18.5	978.8	18.5	101.8
-MC-21 Spot 98	195	1438484	0.7	13.9476	0.8	1.6342	1.2	0.1642	0.9	0.76	980.0	8.5	983.5	7.7	991.1	16.2	991.1	16.2	98.9
-MC-21 Spot 278	119	27700	1.4	13.7565	1.0	1.6294	1.4	0.1626	1.0	0.72	971.4	9.0	981.6	8.7	1004.5	19.5	1004.5	19.5	96.7
-MC-21 Spot 95	273	38755	2.6	13.7529	0.6	1.7233	1.2	0.1720	1.0	0.84	1022.9	9.6	1017.3	7.7	1005.0	13.1	1005.0	13.1	101.8
-MC-21 Spot 261	118	33015	1.9	13.8968	1.2	1.7052	1.6	0.1695	1.1	0.68	1009.2	10.3	1010.5	10.5	1013.3	24.3	1013.3	24.3	99.6
-MC-21 Spot 180	35	6024	0.7	13.8951	1.6	1.7097	1.9	0.1699	1.1	0.54	1011.5	9.8	1012.2	12.4	1013.6	33.0	1013.6	33.0	99.8
-MC-21 Spot 30	978	120346	5.4	13.8697	0.7	1.7556	1.7	0.1741	1.5	0.90	1034.8	14.4	1029.2	10.8	1017.3	15.0	1017.3	15.0	101.7
-MC-21 Spot 37	88	41791	0.8	13.8681	1.1	1.7159	1.6	0.1701	1.2	0.75	1012.9	11.3	1014.5	10.3	1017.9	21.3	1017.9	21.3	99.5
-MC-21 Spot 88	196	28477	2.6	13.8387	0.9	1.7315	1.2	0.1714	0.9	0.72	1019.6	8.5	1020.3	8.0	1021.9	17.4	1021.9	17.4	99.8
-MC-21 Spot 175	326	126118	3.3	13.5102	0.7	1.7188	1.4	0.1683	1.2	0.85	1022.7	11.1	1014.8	9.0	1041.1	15.0	1041.1	15.0	98.3
-MC-21 Spot 23	652	152838	2.2	13.4993	0.8	1.7344	1.6	0.1699	1.4	0.88	1011.5	13.5	1021.4	10.8	1042.7	15.7	1042.7	15.7	97.0
-MC-21 Spot 149	53	32468	3.4	13.4910	1.2	1.7538	1.7	0.1717	1.2	0.69	1021.3	11.0	1028.8	10.9	1044.0	24.5	1044.0	24.5	97.8
-MC-21 Spot 85	160	40500	1.7	13.4320	0.9	1.8540	1.4	0.1807	1.1	0.78	1070.8	11.0	1064.9	9.4	1052.8	18.0	1052.8	18.0	101.7
-MC-21 Spot 117	217	74994	2.2	13.4284	0.8	1.8778	1.3	0.1830	1.0	0.77	1083.2	10.1	1073.3	8.6	1053.3	18.6	1053.3	18.6	102.8
-MC-21 Spot 66	248	42716	2.5	13.4023	1.0	1.8607	1.4	0.1809	1.0	0.73	1072.1	10.1	1067.2	9.3	1057.3	19.5	1057.3	19.5	101.4
-MC-21 Spot 92	978	75239	9.4	13.3902	0.7	1.6411	1.5	0.1594	1.4	0.90	953.7	12.1	986.1	9.5	1059.1	13.1	1059.1	13.1	90.4
-MC-21 Spot 13	161	20109	1.6	13.3858	0.7	1.8289	1.3	0.1873	1.1	0.82	1107.0	10.9	1091.1	8.7	1059.8	15.0	1059.8	15.0	104.5
-MC-21 Spot 182	824	434188	4.4	13.3709	0.7	1.7617	1.7	0.1709	1.5	0.90	1017.2	14.3	1031.5	10.9	1062.0	14.4	1062.0	14.4	95.8
-MC-21 Spot 283	123	88765	1.5	13.3548	0.9	1.8872	1.5	0.1809	1.1	0.78	1072.1	11.4	1069.6	9.7	1064.4	19.3	1064.4	19.3	100.7
-MC-21 Spot 61	166	65125	1.7	13.3451	0.7	1.8849	1.5	0.1806	1.4	0.87	1070.2	13.4	1068.7	10.2	1065.9	15.0	1065.9	15.0	100.4
-MC-21 Spot 304	903	165100	73.2	13.3359	0.6	1.7966	1.5	0.1738	1.3	0.90	1033.3	12.5	1044.2	9.5	1067.3	12.7	1067.3	12.7	96.8
-MC-21 Spot 77	285	63508	1.5	13.3308	0.9	1.9483	1.4	0.1884	1.1	0.75	1113.0	10.9	1097.9	9.5	1068.0	18.6	1068.0	18.6	104.2
-MC-21 Spot 235	84	21314	0.7	13.3279	1.1	1.7801	1.4	0.1721	0.9	0.62	1023.9	8.4	1038.2	9.2	1068.5	22.3	1068.5	22.3	95.8
-MC-21 Spot 166	326	202898	2.7	13.3124	0.8	1.8572	1.4	0.1794	1.1	0.79	1063.7	10.5	1066.0	9.0	1070.8	16.6	1070.8	16.6	99.3
-MC-21 Spot 50	373	64847	1.4	13.2542	0.7	1.8851	1.2	0.1813	1.0	0.82	1074.0	10.1	1075.9	8.2	1079.6	14.1	1079.6	14.1	99.5
-MC-21 Spot 192	197	70085	1.8	13.2296	0.8	1.8086	1.3	0.1830	1.0	0.77	1083.4	9.7	1083.4	8.4	1083.3	16.1	1083.3	16.1	100.0
-MC-21 Spot 8	67	53832	3.0	13.2274	1.1	1.8853	1.5	0.1809	1.1	0.69	1072.1	10.4	1075.9	10.1					

-MC-21 Spot 229	34	10503	1.8	12.4729	1.0	2.2507	1.5	0.2037	1.1	0.73	1195.1	11.6	1197.0	10.2	1200.4	19.7	1200.4	19.7	99.6
-MC-21 Spot 91	190	39197	1.4	12.4681	0.7	2.2567	1.4	0.2042	1.2	0.85	1197.6	12.8	1198.9	9.7	1201.2	14.2	1201.2	14.2	99.7
-MC-21 Spot 55	202	74987	2.5	12.4476	0.9	2.3015	1.5	0.2079	1.2	0.79	1217.5	12.8	1212.8	10.3	1204.4	17.4	1204.4	17.4	101.1
-MC-21 Spot 287	172	38709	2.3	12.3877	0.7	2.3443	1.2	0.2107	0.9	0.79	1232.6	10.5	1225.8	8.5	1213.9	14.6	1213.9	14.6	101.5
-MC-21 Spot 145	161	44247	2.3	12.3479	0.8	2.3255	1.4	0.2084	1.2	0.83	1220.1	13.1	1220.1	10.1	1220.2	15.8	1220.2	15.8	100.0
-MC-21 Spot 44	342	105576	2.2	12.2564	0.6	2.4037	1.3	0.2138	1.2	0.88	1248.8	13.3	1243.7	9.5	1234.9	12.4	1234.9	12.4	101.1
-MC-21 Spot 185	74	24136	2.4	12.2082	0.9	2.4410	1.5	0.2162	1.3	0.83	1261.9	14.6	1254.8	11.0	1242.5	16.7	1242.5	16.7	101.6
-MC-21 Spot 257	205	912927	2.0	12.1305	0.7	2.5221	1.3	0.2220	1.0	0.81	1292.4	11.9	1278.4	9.2	1255.1	14.5	1255.1	14.5	103.0
-MC-21 Spot 125	535	1088610	2.6	12.1260	0.6	2.4583	1.7	0.2163	1.6	0.94	1262.2	18.5	1259.9	12.5	1255.8	11.9	1255.8	11.9	100.5
-MC-21 Spot 187	201	71872	8.5	12.0880	0.9	2.3574	1.4	0.2068	1.1	0.78	1211.6	12.1	1229.8	9.9	1261.9	16.9	1261.9	16.9	99.0
-MC-21 Spot 285	323	189097	2.8	12.0041	0.7	2.4720	1.3	0.2157	1.1	0.85	1258.9	12.3	1263.9	9.2	1272.3	13.0	1272.3	13.0	99.0
-MC-21 Spot 231	713	138718	4.7	12.0162	0.8	2.4509	1.7	0.2137	1.5	0.89	1248.4	16.7	1257.7	11.9	1273.5	14.8	1273.5	14.8	98.0
-MC-21 Spot 39	55	39774	1.8	11.9745	0.7	2.6022	1.5	0.2261	1.3	0.87	1314.0	15.1	1301.3	10.7	1280.3	13.8	1280.3	13.8	102.6
-MC-21 Spot 239	579	90588	2.2	11.9740	0.9	2.3652	2.1	0.2055	1.9	0.91	1204.8	21.3	1232.2	15.1	1280.4	16.8	1280.4	16.8	94.1
-MC-21 Spot 193	135	65687	1.6	11.9480	0.7	2.5440	1.1	0.2205	0.9	0.80	1284.8	10.1	1284.7	8.0	1284.6	12.9	1284.6	12.9	100.0
-MC-21 Spot 127	282	74019	2.3	11.9308	0.9	2.5877	1.5	0.2240	1.2	0.79	1303.0	14.0	1297.2	11.0	1287.4	17.7	1287.4	17.7	101.2
-MC-21 Spot 237	70	13083	2.4	11.8790	1.0	2.5418	1.4	0.2191	1.0	0.69	1277.0	11.1	1284.1	10.1	1295.9	19.3	1295.9	19.3	98.5
-MC-21 Spot 165	78	81928	1.5	11.8623	0.8	2.4108	1.6	0.2075	1.3	0.85	1215.5	14.8	1245.8	11.3	1298.6	16.3	1298.6	16.3	93.6
-MC-21 Spot 147	165	32998	2.9	11.8344	0.8	2.6324	1.3	0.2280	1.0	0.77	1313.7	11.6	1309.7	9.3	1303.2	15.7	1303.2	15.7	100.8
-MC-21 Spot 305	48	17238	1.3	11.7497	1.1	2.6805	1.6	0.2288	1.2	0.74	1317.8	14.3	1317.5	12.0	1317.2	21.3	1317.2	21.3	100.0
-MC-21 Spot 217	489	79499	5.2	11.7404	0.7	2.4711	1.6	0.2105	1.5	0.80	1231.5	16.5	1263.6	11.9	1318.7	14.2	1318.7	14.2	93.4
-MC-21 Spot 263	234	41548	2.5	11.7221	0.8	2.6703	1.5	0.2271	1.2	0.83	1319.4	14.8	1320.3	10.9	1321.7	16.0	1321.7	16.0	99.8
-MC-21 Spot 51	588	188524	3.0	11.6944	0.7	2.6517	1.6	0.2250	1.4	0.89	1308.2	17.0	1315.1	11.9	1326.3	14.2	1326.3	14.2	98.6
-MC-21 Spot 64	114	43713	2.8	11.6180	0.7	2.7593	1.2	0.2326	1.0	0.81	1348.1	11.9	1344.6	9.0	1339.0	13.6	1339.0	13.6	100.7
-MC-21 Spot 178	183	51191	2.5	11.6056	0.8	2.7573	1.2	0.2322	1.0	0.78	1348.0	11.7	1344.1	9.2	1341.0	14.8	1341.0	14.8	100.4
-MC-21 Spot 186	204	41678	5.0	11.6048	0.8	2.7972	1.4	0.2355	1.2	0.83	1363.4	14.8	1354.8	10.8	1341.2	15.4	1341.2	15.4	101.7
-MC-21 Spot 307	144	2421	1.4	11.5566	6.6	0.9083	6.8	0.0762	1.4	0.21	473.2	6.5	656.2	32.9	1349.2	128.4	1349.2	128.4	35.1
-MC-21 Spot 194	332	51708	2.5	11.5211	0.7	2.7670	1.3	0.2313	1.1	0.86	1341.4	13.8	1346.7	9.8	1356.1	12.8	1356.1	12.8	99.0
-MC-21 Spot 19	783	597844	1.7	11.5067	0.7	2.7167	1.6	0.2268	1.4	0.89	1317.8	17.1	1333.0	12.0	1357.6	14.2	1357.6	14.2	97.1
-MC-21 Spot 16	166	66196	1.8	11.4966	0.7	2.8027	1.3	0.2338	1.1	0.83	1354.4	13.1	1356.3	9.6	1359.2	13.9	1359.2	13.9	99.6
-MC-21 Spot 7	168	179186	2.9	11.4805	0.8	2.7333	1.5	0.2273	1.2	0.83	1320.3	14.3	1337.6	10.8	1365.3	15.8	1365.3	15.8	95.7
-MC-21 Spot 18	129	38132	2.3	11.3728	0.7	2.8265	1.3	0.2332	1.0	0.81	1351.5	12.6	1362.8	9.5	1380.1	14.3	1380.1	14.3	97.9
-MC-21 Spot 119	363	152271	2.3	11.3451	0.7	2.9086	1.1	0.2393	0.9	0.79	1382.9	11.2	1383.8	8.5	1384.8	13.2	1384.8	13.2	99.9
-MC-21 Spot 90	78	257237	2.6	11.3377	0.9	2.8987	1.4	0.2385	1.1	0.78	1378.7	13.7	1381.6	10.7	1386.0	17.0	1386.0	17.0	99.5
-MC-21 Spot 244	183	34427	2.8	11.2748	0.7	2.9234	1.6	0.2392	1.5	0.90	1382.3	18.4	1388.0	12.5	1396.7	14.0	1396.7	14.0	99.0
-MC-21 Spot 115	126	61044	1.6	11.2637	0.7	2.9181	1.2	0.2385	0.9	0.79	1378.8	11.7	1386.6	9.0	1396.6	13.9	1396.6	13.9	98.6
-MC-21 Spot 228	115	29450	2.6	11.2408	0.8	2.9187	1.4	0.2381	1.2	0.83	1376.6	14.8	1386.8	10.9	1402.5	15.5	1402.5	15.5	98.2
-MC-21 Spot 111	210	51688	0.6	11.1901	0.8	2.9848	1.3	0.2423	1.0	0.79	1398.9	12.6	1403.7	9.6	1411.1	14.7	1411.1	14.7	99.1
-MC-21 Spot 1	183	45396	2.5	11.0905	0.9	3.1134	1.2	0.2505	0.8	0.69	1441.3	10.8	1436.0	9.2	1428.2	16.5	1428.2	16.5	100.9
-MC-21 Spot 243	268	151510	5.1	11.0766	0.7	3.1218	1.2	0.2509	0.9	0.82	1443.1	12.2	1438.1	8.9	1430.6	12.8	1430.6	12.8	100.9
-MC-21 Spot 247	380	1712436	1.8	11.0551	0.8	3.1937	1.3	0.2562	1.0	0.80	1470.3	13.1	1455.6	9.7	1434.3	14.4	1434.3	14.4	102.5
-MC-21 Spot 173	71	13418	3.4	11.0086	0.9	3.0721	1.6	0.2454	1.3	0.82	1414.7	16.6	1425.8	12.2	1442.7	17.6	1442.7	17.6	98.1
-MC-21 Spot 238	120	203379	1.6	10.9916	1.0	3.1731	1.5	0.2531	1.0	0.71	1454.3	13.7	1450.6	11.4	1445.3	19.8	1445.3	19.8	100.6
-MC-21 Spot 159	647	91734	2.0	10.9162	0.9	3.0545	1.8	0.2419	1.5	0.87	1395.7	19.2	1421.4	13.5	1458.4	16.8	1458.4	16.8	95.8
-MC-21 Spot 224	236	60569	0.8	10.8735	0.9	3.3971	1.4	0.2680	1.1	0.76	1530.7	14.5	1503.7	10.9	1465.9	17.0	1465.9	17.0	104.4
-MC-21 Spot 28	343	84847	0.9	10.8233	0.6	2.9730	1.2	0.2335	1.0	0.84	1352.7	12.3	1400.7	9.1	1474.6	12.3	1474.6	12.3	91.7
-MC-21 Spot 312	296	64659	2.8	10.8211	0.7	3.2109	1.4	0.2521	1.1	0.84	1449.3	14.8	1459.8	10.6	1475.0	14.2	1475.0	14.2	98.3
-MC-21 Spot 275	324	715137	1.7	10.8024	0.7	3.2680	1.3	0.2561	1.1	0.83	1470.1	14.1	1473.5	10.0	1478.3	13.6	1478.3	13.6	99.4
-MC-21 Spot 126	214	171836	2.4	10.7874	0.7	3.2955	1.4	0.2579	1.1	0.84	1479.3	15.1	1480.0	10.6	1480.9	13.7	1480.9	13.7	99.9
-MC-21 Spot 300	167	30220	1.8	10.7857	0.7	3.2534	1.1	0.2546	0.9	0.78	1462.2	11.2	1470.0	8.5	1481.2	12.9	1481.2	12.9	98.7
-MC-21 Spot 202	186	66759	2.8	10.7638	0.8	3.2638	1.2	0.2549	0.9	0.74	1463.7	12.1	1472.5	9.7	1485.1	16.0	1485.1	16.0	98.6
-MC-21 Spot 158	363	84122	3.0	10.7537	0.7	3.4180	1.3	0.2667	1.1	0.83	1524.0	15.1	1508.5	10.5	1486.9	14.0	1486.9	14.0	102.5
-MC-21 Spot 210	164	24951	3.1	10.7532	0.7	3.3464	1.2	0.2611	1.0	0.83	1495.5	13.2	1491.9	9.3	1487.0	12.5	1487.0	12.5	100.6
-MC-21 Spot 270	308	1579169	1.9	10.6862	0.9	3.1760	1.5	0.2463	1.2	0.80	1419.2	15.0	1451.4	11.3	1498.8	16.5	1498.8	16.5	94.7
-MC-21 Spot 29	580	224182	2.7	10.6718	0.8	3.2716	1.7	0.2533	1.4	0.87	1455.6	18.8	1474.3	13.0	1501.3	15.8	1501.3	15.8	97.0
-MC-21 Spot 53	145	70172	2.2	10.6684	0.9	3.3604	1.4	0.2624	1.1	0.78	1502.3	14.4	1502.2	10.8	1501.9	16.2	1501.9	16.2	100.0
-MC-21 Spot 142	194	60922	3.0	10.6675	0.7	3.2665	1.3	0.2528	1.1	0.82	1453.1	13.8	1473.1	10.1	1502.1	14.1	1502.1	14.1	96.7
-MC-21 Spot 163	138	21944	0.8	10.6494	0.8	3.4274	1.3	0.2648	1.0	0.77	1514.6	13.3	1510.7	10.1	1505.3	15.4	1505.3	15.4	100.6
-MC-21 Spot 208	255	52362	2.1	10.6414	0.8	3.3735	1.2	0.2605	0.9	0.74	1492.3	11.7	1498.3	9.3	1506.7	15.1	1506.7	15.1	99.0
-MC-21 Spot 308	132	63414	2.2	10.6256	0.8	3.3100	1.3	0.2552	1.1	0.82	1465.2	14.4	1483.4	10.4	1509.5	14.4	1509.5	14.4	97.1
-MC-21 Spot 73	301	627010	2.1	10.6002	0.8	3.3766	1.4	0.2597	1.1	0.81	1488.3	14.8	1499.0	10.7	1514.0	15.1	1514.0	15.1	98.3
-MC-21 Spot 188	205	203334	1.8	10.4657	0.8	3.4428	1.3	0.2614</											

-MC-21 Spot 3	121	103985	3.5	9.8707	0.8	4.0039	1.3	0.2988	1.0	0.77	1625.3	14.8	1635.0	10.8	1647.4	15.6	1647.4	15.6	98.7
-MC-21 Spot 197	348	73614	4.9	9.8649	0.7	4.0590	1.3	0.2905	1.1	0.82	1644.2	15.3	1646.1	10.4	1648.5	13.5	1648.5	13.5	99.7
-MC-21 Spot 102	74	26386	3.3	9.8562	0.9	4.0397	1.5	0.2890	1.2	0.79	1636.5	17.2	1642.2	12.2	1649.6	17.0	1649.6	17.0	99.2
-MC-21 Spot 289	155	106058	1.1	9.8486	0.6	4.0679	1.4	0.2907	1.2	0.80	1645.0	17.7	1647.9	11.1	1649.6	11.3	1651.6	11.3	99.6
-MC-21 Spot 34	92	35417	1.9	9.8467	0.9	4.0279	1.2	0.2878	0.9	0.72	1630.4	13.0	1639.8	10.1	1651.9	16.0	1651.9	16.0	98.7
-MC-21 Spot 242	151	37886	1.5	9.8460	1.5	4.1517	1.4	0.2866	1.1	0.75	1674.5	15.6	1664.6	11.8	1652.1	17.4	1652.1	17.4	101.4
-MC-21 Spot 252	29	10277	0.7	9.8351	0.9	4.0880	1.4	0.2917	1.0	0.73	1650.2	14.4	1651.9	11.1	1654.1	17.4	1654.1	17.4	99.8
-MC-21 Spot 6	312	262623	2.2	9.8264	0.7	3.9724	1.3	0.2832	1.1	0.85	1607.6	15.9	1628.6	10.7	1655.8	12.8	1655.8	12.8	97.1
-MC-21 Spot 8	811	94772	17.9	9.8213	0.9	3.8638	1.7	0.2611	1.4	0.86	1495.4	19.0	1563.5	13.2	1656.7	15.8	1656.7	15.8	90.3
-MC-21 Spot 121	197	144715	1.9	9.8049	0.8	4.0470	1.4	0.2879	1.2	0.83	1631.1	16.8	1643.7	11.4	1659.8	14.5	1659.8	14.5	98.3
-MC-21 Spot 103	87	550474	1.9	9.7990	0.9	4.1306	1.4	0.2937	1.1	0.76	1659.9	16.1	1660.4	11.7	1660.9	17.2	1660.9	17.2	99.9
-MC-21 Spot 160	482	292557	2.2	9.7926	0.8	3.9391	1.5	0.2799	1.3	0.86	1600.8	18.2	1621.8	12.1	1662.1	14.1	1662.1	14.1	95.7
-MC-21 Spot 262	168	503535	0.9	9.7853	0.5	4.2614	1.1	0.3028	1.0	0.87	1704.0	14.7	1685.9	9.2	1663.5	10.1	1663.5	10.1	102.4
-MC-21 Spot 65	17	24595	1.0	9.7736	1.2	4.0178	1.7	0.2849	1.1	0.68	1616.1	16.3	1637.8	13.7	1665.7	22.9	1665.7	22.9	97.0
-MC-21 Spot 290	165	35649	2.5	9.7430	0.8	4.1239	1.5	0.2815	1.2	0.82	1649.2	17.4	1659.0	11.9	1671.5	15.3	1671.5	15.3	98.7
-MC-21 Spot 216	495	194764	1.2	9.7413	0.8	4.0688	1.8	0.2889	1.6	0.90	1635.9	23.1	1651.7	14.4	1671.9	14.1	1671.9	14.1	97.8
-MC-21 Spot 143	180	379827	1.3	9.7002	0.8	4.0667	1.3	0.2862	1.0	0.78	1622.7	14.7	1647.7	10.7	1679.7	15.0	1679.7	15.0	95.6
-MC-21 Spot 83	162	146849	2.8	9.6807	0.8	4.1613	1.4	0.2923	1.1	0.81	1653.0	16.0	1666.4	11.1	1683.4	14.7	1683.4	14.7	98.2
-MC-21 Spot 288	340	218280	7.0	9.6667	0.7	4.2524	1.3	0.2883	1.1	0.85	1682.7	16.2	1684.2	10.5	1686.1	12.3	1686.1	12.3	99.8
-MC-21 Spot 151	128	140540	3.2	9.6282	0.8	4.2804	1.2	0.2990	0.9	0.77	1686.5	14.0	1689.6	10.0	1693.4	14.2	1693.4	14.2	99.6
-MC-21 Spot 49	344	174349	1.7	9.6036	0.8	4.2498	1.4	0.2861	1.2	0.85	1672.1	17.5	1683.7	11.8	1698.2	13.8	1698.2	13.8	98.5
-MC-21 Spot 227	659	181674	2.2	9.5506	0.8	4.4385	1.6	0.3078	1.4	0.88	1729.1	21.4	1719.7	13.4	1708.3	14.3	1708.3	14.3	101.2
-MC-21 Spot 132	132	85239	1.5	9.5041	0.8	4.3490	1.4	0.2999	1.2	0.81	1690.9	17.5	1702.7	12.0	1717.3	15.6	1717.3	15.6	98.5
-MC-21 Spot 294	127	22206	1.8	9.4908	0.8	4.5289	1.3	0.3119	1.0	0.80	1749.9	15.7	1736.3	10.8	1719.9	14.1	1719.9	14.1	101.7
-MC-21 Spot 137	107	58406	1.4	9.4883	0.8	4.5994	1.2	0.3160	1.1	0.87	1770.1	16.7	1749.2	10.3	1724.2	11.2	1724.2	11.2	102.4
-MC-21 Spot 109	217	72433	4.3	9.4661	0.8	4.5699	1.1	0.3139	0.9	0.75	1756.8	13.1	1743.8	9.5	1724.7	13.9	1724.7	13.9	102.0
-MC-21 Spot 52	212	762313	3.0	9.4353	0.8	4.5936	1.4	0.3145	1.1	0.78	1762.7	16.2	1748.1	11.3	1730.6	15.5	1730.6	15.5	101.9
-MC-21 Spot 195	261	1041997	3.0	9.4206	0.8	4.5694	1.3	0.3123	1.1	0.80	1752.2	16.3	1743.7	11.0	1733.5	14.5	1733.5	14.5	101.1
-MC-21 Spot 156	197	335189	2.5	9.4134	0.7	4.5028	1.2	0.3076	1.0	0.80	1728.6	14.5	1731.5	9.9	1734.9	13.2	1734.9	13.2	99.6
-MC-21 Spot 260	431	231812	1.4	9.4042	0.7	4.4938	1.7	0.3066	1.6	0.92	1724.1	23.7	1729.8	14.2	1736.7	12.5	1736.7	12.5	99.3
-MC-21 Spot 10	341	3989697	2.9	9.3806	0.9	4.3912	1.6	0.2899	1.3	0.83	1685.8	19.2	1710.7	12.9	1741.3	16.1	1741.3	16.1	98.8
-MC-21 Spot 87	1138	431192	3.3	9.3544	0.8	4.1281	1.6	0.2802	1.5	0.88	1692.3	20.5	1659.9	13.5	1746.4	14.2	1746.4	14.2	91.2
-MC-21 Spot 76	186	47867	3.7	9.3543	0.7	4.6750	1.2	0.3173	0.9	0.79	1776.6	14.6	1762.8	9.9	1746.5	13.2	1746.5	13.2	101.7
-MC-21 Spot 66	92	20377	3.3	9.3390	1.0	4.6473	1.5	0.3149	1.2	0.78	1764.8	18.2	1757.8	12.7	1749.5	17.4	1749.5	17.4	100.9
-MC-21 Spot 255	667	322400	4.6	9.2873	0.8	4.5809	1.6	0.3087	1.4	0.88	1734.3	22.0	1745.8	13.6	1759.6	13.9	1759.6	13.9	98.6
-MC-21 Spot 278	282	286202	4.1	9.2386	0.7	4.8871	1.3	0.3142	1.1	0.84	1761.3	17.1	1764.9	11.0	1789.2	13.0	1789.2	13.0	99.6
-MC-21 Spot 297	252	113088	4.2	9.2340	0.8	4.6715	1.3	0.3130	1.0	0.81	1755.4	16.0	1762.2	10.8	1770.1	13.8	1770.1	13.8	99.2
-MC-21 Spot 54	387	1631769	3.1	9.1828	0.8	4.8705	1.4	0.3245	1.2	0.82	1811.7	18.4	1797.2	11.9	1780.3	14.6	1780.3	14.6	101.8
-MC-21 Spot 299	236	79629	2.2	9.1686	0.9	4.9275	1.4	0.3277	1.0	0.77	1827.4	16.7	1807.0	11.4	1783.5	15.6	1783.5	15.6	102.5
-MC-21 Spot 25	442	181298	1.7	9.1317	0.7	4.8084	1.7	0.3186	1.6	0.92	1782.9	25.0	1786.4	14.8	1780.5	12.3	1780.5	12.3	99.6
-MC-21 Spot 225	220	85547	4.0	9.1308	0.9	4.7884	1.3	0.3172	1.0	0.74	1776.2	14.8	1782.9	10.8	1780.6	15.6	1780.6	15.6	99.2
-MC-21 Spot 212	84	46304	0.7	9.1197	0.8	4.8483	1.4	0.3208	1.1	0.82	1793.7	17.3	1783.3	11.4	1782.8	14.2	1782.8	14.2	100.0
-MC-21 Spot 114	73	776339	0.8	9.1074	0.7	4.8466	1.3	0.3203	1.1	0.82	1791.1	16.8	1783.0	11.0	1785.3	13.5	1785.3	13.5	99.8
-MC-21 Spot 120	577	227005	1.9	9.1008	0.8	4.9054	1.7	0.3239	1.5	0.89	1808.8	23.5	1803.2	14.1	1796.6	14.0	1796.6	14.0	100.7
-MC-21 Spot 213	70	64988	2.2	9.0812	0.7	4.9333	1.1	0.3251	0.9	0.77	1814.4	13.7	1808.0	9.6	1800.5	13.2	1800.5	13.2	100.8
-MC-21 Spot 71	129	62513	3.3	9.0798	0.7	5.0236	1.2	0.3310	0.9	0.81	1843.1	15.2	1823.3	9.9	1800.8	12.4	1800.8	12.4	102.3
-MC-21 Spot 179	128	71148	3.5	9.0467	0.8	4.8478	1.4	0.3182	1.1	0.80	1781.0	17.4	1793.2	11.7	1807.5	15.1	1807.5	15.1	98.5
-MC-21 Spot 198	474	235127	4.6	9.0444	0.7	4.7135	1.6	0.3093	1.4	0.90	1737.4	21.3	1789.6	13.0	1807.9	12.3	1807.9	12.3	98.1
-MC-21 Spot 157	708	208816	3.2	9.0059	0.8	4.7825	1.6	0.3125	1.5	0.92	1753.1	22.7	1781.8	13.6	1815.7	11.8	1815.7	11.8	98.6
-MC-21 Spot 268	188	71833	3.0	9.0030	0.7	5.0253	1.0	0.3283	0.7	0.73	1830.0	11.4	1823.6	8.2	1816.3	12.0	1816.3	12.0	100.8
-MC-21 Spot 118	198	184580	2.4	8.9682	0.9	5.1193	1.4	0.3331	1.1	0.79	1853.1	18.2	1839.3	12.1	1823.7	15.7	1823.7	15.7	101.6
-MC-21 Spot 96	411	212858	2.1	8.9523	0.8	4.9584	1.7	0.3221	1.5	0.88	1799.9	23.8	1812.3	14.5	1826.5	14.5	1826.5	14.5	98.5
-MC-21 Spot 67	230	63169	1.8	8.9378	0.9	5.1430	1.3	0.3320	0.9	0.69	1848.3	14.3	1843.2	10.9	1837.6	16.8	1837.6	16.8	100.6
-MC-21 Spot 281	53	173512	3.3	8.9446	0.8	5.3759	1.4	0.3450	1.1	0.81	1910.7	18.5	1881.0	11.8	1848.4	14.4	1848.4	14.4	103.4
-MC-21 Spot 218	213	87896	2.4	8.9276	0.8	5.1220	1.4	0.3281	1.1	0.80	1829.0	18.0	1839.8	12.0	1851.9	15.1	1851.9	15.1	98.8
-MC-21 Spot 112	156	106578	1.0	8.9004	0.7	5.4507	1.3	0.3481	1.1	0.83	1825.3	18.2	1882.9	11.4	1857.5	13.5	1857.5	13.5	103.7
-MC-21 Spot 21	75	47837	1.3	8.7591	0.9	5.2353	1.3	0.3327	0.9	0.74	1851.6	15.0	1858.4	10.8	1866.0	15.5	1866.0	15.5	99.2
-MC-21 Spot 191	448	631667	7.8	8.7091	0.9	5.0215	1.8	0.3173	1.6	0.88	1776.6	24.8	1823.0	15.4	1876.3	15.8	1876.3	15.8	94.7
-MC-21 Spot 0	905	163326	2.6	8.6968	0.9	4.9132	1.6	0.3100	1.4	0.85	1740.9	21.0	1804.5	13.7	1878.8	15.3	1878.8	15.3	92.7
-MC-21 Spot 310	38	19723	1.1	8.6741	0.9	5.2577	1.6	0.3309	1.2	0.80	1842.8	19.9	1862.0	13.3	1883.6	17.0	1883.6	17.0	97.8
-MC-21 Spot 57	114	29013	0.4	8.6306	0.9	5.4662	1.3	0.3423	1.0	0.77	1897.8	17.0	1865.3	11.6	1892.6	15.5	1892.6	15.5	100.3
-MC-21 Spot 303	133	77588	1.8	8.5270	0.8	5.3613	1.3	0.3317	1.0	0.79	1846.7	16.8</							

-MC-21 Spot 161	219	132739	1.5	5.3644	0.7	11.4604	1.3	0.4469	1.1	0.84	2381.3	21.9	2583.0	12.3	2710.0	11.8	2710.0	11.8	87.9
-MC-21 Spot 104	75	168127	2.1	5.3453	0.9	13.8192	1.6	0.5360	1.3	0.83	2766.6	29.0	2737.4	14.7	2715.9	14.3	2715.9	14.3	101.9
-MC-21 Spot 234	32	35070	1.4	5.3419	1.0	14.2143	1.5	0.5509	1.1	0.72	2629.1	24.3	2764.1	14.0	2717.0	16.8	2717.0	16.8	104.1
-MC-21 Spot 36	244	289247	2.4	5.3396	0.7	12.8907	1.6	0.4964	1.4	0.89	2611.4	30.1	2671.7	14.9	2717.7	12.1	2717.7	12.1	96.1
-MC-21 Spot 89	77	62920	0.6	5.3258	0.8	13.7356	1.4	0.5308	1.1	0.83	2744.8	26.4	2731.7	12.9	2722.0	12.4	2722.0	12.4	100.8
-MC-21 Spot 268	28	21691	6.5	5.2962	6.1	13.4006	6.6	0.5150	2.4	0.36	2677.8	52.7	2708.3	62.4	2731.1	101.2	2731.1	101.2	98.0
-MC-21 Spot 69	179	213229	1.0	5.2909	0.9	13.2325	1.3	0.5080	1.0	0.76	2648.1	21.9	2696.4	12.5	2732.8	14.0	2732.8	14.0	96.9
-MC-21 Spot 223	254	82659	1.2	5.2842	0.6	13.7381	1.1	0.5267	0.9	0.81	2727.7	20.0	2731.8	10.5	2734.9	10.7	2734.9	10.7	99.7
-MC-21 Spot 232	87	49021	1.0	5.2728	0.5	13.8658	1.1	0.5305	1.0	0.88	2743.5	22.5	2740.6	10.8	2738.4	8.8	2738.4	8.8	100.2
-MC-21 Spot 282	421	161221	2.1	5.2535	0.7	13.7569	1.5	0.5244	1.3	0.90	2717.8	29.6	2733.1	14.1	2744.4	10.7	2744.4	10.7	99.0
-MC-21 Spot 70	92	40781	2.4	5.1737	0.8	13.8732	1.4	0.5208	1.2	0.84	2702.5	26.6	2741.1	13.6	2769.6	12.8	2769.6	12.8	97.6
-MC-21 Spot 62	162	96139	1.9	5.1075	0.8	13.9492	1.5	0.5169	1.3	0.86	2686.2	28.5	2746.3	14.4	2760.7	12.9	2760.7	12.9	99.3
-MC-21 Spot 74	290	67004	2.9	4.9623	0.9	13.3934	1.6	0.4822	1.4	0.94	2537.0	28.4	2707.8	15.1	2837.8	14.0	2837.8	14.0	89.4
-MC-21 Spot 221	309	194829	2.1	4.8948	0.8	15.3494	1.4	0.5451	1.1	0.81	2804.8	25.4	2837.1	13.2	2880.1	13.4	2880.1	13.4	95.1
-MC-21 Spot 79	114	97734	4.5	4.8378	0.8	15.7288	1.5	0.5521	1.2	0.83	2834.0	27.7	2860.5	14.0	2879.2	13.3	2879.2	13.3	95.4
-MC-21 Spot 81	157	58864	2.1	4.8275	0.7	15.9948	1.3	0.5503	1.1	0.85	2867.7	25.4	2876.5	12.3	2882.6	10.9	2882.6	10.9	99.5
-MC-21 Spot 136	258	114570	1.0	4.7746	0.8	16.2623	1.2	0.5641	0.9	0.74	2863.5	20.9	2863.5	11.6	2900.5	13.1	2900.5	13.1	99.4
-MC-21 Spot 167	61	51545	1.2	4.6267	1.0	17.8631	1.5	0.5930	1.1	0.75	3001.4	26.8	2971.6	14.4	2951.4	16.1	2951.4	16.1	101.7
-MC-21 Spot 135	47	26888	3.9	4.5188	0.9	17.4762	1.4	0.5730	1.1	0.78	2920.2	26.0	2961.3	13.6	2989.4	14.1	2989.4	14.1	97.7
-MC-21 Spot 184	283	304962	6.9	3.1149	0.6	32.0108	1.3	0.7235	1.1	0.87	3509.1	29.5	3560.8	12.4	3574.2	9.6	3574.2	9.6	98.2
RB-0.5 (Red Butte Conglomerate) U-Pb geochronologic analyses.																			
Isotope ratios										Apparent ages (Ma)									
Analysis	U	206Pb	U/Th	206Pb*	±	207Pb*	±	208Pb*	±	error	206Pb*	±	207Pb*	±	208Pb*	±	Best age	±	Conc
	(ppm)	204Pb		207Pb*	(%)	235U*	(%)	238U	(%)	corr.	238U*	(Ma)	235U	(Ma)	207Pb*	(Ma)	(Ma)	(Ma)	(%)
-RB-0.5 Spot 156	278	7924	1.2	21.0897	2.0	0.0721	2.6	0.0110	1.6	0.81	70.7	1.1	70.7	1.8	69.2	48.7	70.7	1.1	NA
-RB-0.5 Spot 131	796	52576	1.7	20.8154	1.4	0.0738	1.9	0.0111	1.3	0.69	71.5	1.0	72.3	1.4	100.3	33.2	71.5	1.0	NA
-RB-0.5 Spot 59	239	4379	1.6	22.3567	2.1	0.0658	2.5	0.0112	1.3	0.51	71.5	0.9	67.6	1.6	NA	NA	71.5	0.9	NA
-RB-0.5 Spot 193	231	3256	1.4	22.8371	2.8	0.0682	3.1	0.0112	1.3	0.43	71.8	0.9	67.0	2.0	NA	NA	71.8	0.9	NA
-RB-0.5 Spot 64	305	8818	1.2	21.1762	1.9	0.0734	2.6	0.0113	1.8	0.69	72.3	1.3	71.9	1.8	59.5	44.8	72.3	1.3	NA
-RB-0.5 Spot 45	294	17546	1.2	21.7671	2.2	0.0724	2.6	0.0114	1.3	0.50	73.3	0.9	71.0	1.8	NA	NA	73.3	0.9	NA
-RB-0.5 Spot 219	188	3320	1.2	23.1912	2.7	0.0680	3.1	0.0115	1.5	0.48	73.4	1.1	66.8	2.0	NA	NA	73.4	1.1	NA
-RB-0.5 Spot 58	673	10067	1.1	21.6992	1.3	0.0732	2.1	0.0115	1.6	0.76	73.8	1.1	71.8	1.4	4.3	32.5	73.8	1.1	NA
-RB-0.5 Spot 154	366	16012	1.5	21.0237	2.0	0.0756	2.5	0.0115	1.4	0.57	73.9	1.0	74.0	1.8	76.6	48.5	73.9	1.0	NA
-RB-0.5 Spot 8	334	11822	1.5	21.2183	1.9	0.0750	2.3	0.0116	1.3	0.55	74.0	0.9	73.5	1.6	54.7	46.0	74.0	0.9	NA
-RB-0.5 Spot 51	447	41024	1.8	21.1552	1.5	0.0756	2.3	0.0116	1.8	0.77	74.3	1.3	73.9	1.6	61.8	34.6	74.3	1.3	NA
-RB-0.5 Spot 272	377	11222	1.4	21.3992	1.3	0.0747	3.8	0.0116	2.2	0.57	74.3	1.6	73.1	2.7	34.5	74.9	74.3	1.6	NA
-RB-0.5 Spot 132	66	1095	3.6	26.0801	31.2	0.0614	18.3	0.0116	1.7	0.09	74.5	1.3	60.5	10.7	NA	NA	74.5	1.3	NA
-RB-0.5 Spot 29	408	461950	1.5	20.9094	1.5	0.0773	2.2	0.0117	1.5	0.71	75.1	1.1	75.6	1.8	89.6	36.5	75.1	1.1	NA
-RB-0.5 Spot 190	222	1988	1.7	24.2451	2.5	0.0688	2.9	0.0117	1.5	0.61	75.3	1.1	65.6	1.8	NA	NA	75.3	1.1	NA
-RB-0.5 Spot 44	483	11792	1.4	21.4178	1.8	0.0785	2.5	0.0122	1.7	0.89	78.1	1.3	76.7	1.8	32.4	43.0	78.1	1.3	NA
-RB-0.5 Spot 179	509	11492	0.7	21.0215	2.2	0.0805	2.8	0.0123	1.6	0.58	78.6	1.2	78.6	2.1	78.9	53.3	78.6	1.2	NA
-RB-0.5 Spot 114	294	18373	1.0	11.9870	8.0	0.1474	8.1	0.0128	1.0	0.13	82.1	0.8	139.6	10.6	1278.3	156.7	82.1	0.8	NA
-RB-0.5 Spot 248	149	1165	1.1	5.6857	20.2	0.3264	20.2	0.0135	1.5	0.07	86.2	1.3	286.8	50.6	2613.7	340.1	86.2	1.3	NA
-RB-0.5 Spot 231	415	9325	2.5	21.0953	1.5	0.0959	2.4	0.0147	1.9	0.78	93.9	1.8	93.0	2.1	66.3	35.3	93.9	1.8	NA
-RB-0.5 Spot 279	139	23890	1.6	16.3812	4.6	0.1271	5.5	0.0151	3.0	0.54	96.7	2.8	121.5	6.3	639.9	99.1	96.7	2.8	NA
-RB-0.5 Spot 163	506	9948	1.4	20.9066	1.1	0.1038	2.1	0.0157	1.7	0.83	100.7	1.7	100.3	2.0	89.9	26.9	100.7	1.7	NA
-RB-0.5 Spot 170	533	254551	0.8	18.5181	0.9	0.4332	1.7	0.0582	1.4	0.83	364.7	4.9	365.5	5.1	370.1	21.2	364.7	4.9	NA
-RB-0.5 Spot 14	610	118046	2.8	18.2278	0.9	0.4728	1.6	0.0625	1.4	0.85	391.0	5.3	393.1	5.4	405.6	19.7	391.0	5.3	NA
-RB-0.5 Spot 300	139	37343	1.3	18.0829	0.9	0.4859	1.6	0.0638	1.3	0.81	398.4	4.9	402.1	5.2	423.4	20.6	398.4	4.9	NA
-RB-0.5 Spot 90	400	45736	1.7	18.3102	0.9	0.4964	1.5	0.0663	1.2	0.78	414.1	4.6	411.3	5.0	395.5	20.8	414.1	4.6	104.7
-RB-0.5 Spot 0	53	5978	0.9	18.6685	1.8	0.4906	2.2	0.0684	1.2	0.58	414.7	4.8	405.3	7.2	352.1	40.8	414.7	4.8	117.8
-RB-0.5 Spot 17	430	116461	4.5	17.4746	1.0	0.5287	1.9	0.0670	1.6	0.86	418.3	6.7	431.0	6.7	499.3	21.0	418.3	6.7	83.8
-RB-0.5 Spot 3	170	83055	1.0	18.1991	1.3	0.5087	1.8	0.0672	1.2	0.67	419.1	4.9	417.6	6.2	409.1	30.0	419.1	4.9	102.4
-RB-0.5 Spot 251	162	60125	1.5	17.5753	0.9	0.5201	1.5	0.0675	1.2	0.77	420.8	4.7	425.2	5.2	449.1	20.9	420.8	4.7	93.7
-RB-0.5 Spot 24	1082	36449	40.1	16.5408	1.1	0.5668	1.9	0.0680	1.5	0.80	424.3	6.1	456.0	6.8	619.0	24.4	424.3	6.1	65.5
-RB-0.5 Spot 191	94	10513	2.3	18.0568	1.7	0.5233	2.1	0.0686	1.3	0.61	427.4	5.3	427.3	7.3	426.8	37.1	427.4	5.3	100.2
-RB-0.5 Spot 35	653	67796	5.1	17.9708	0.8	0.5273	1.7	0.0688	1.5	0.87	428.6	6.0	430.0	5.9	437.3	18.6	428.6	6.0	98.0
-RB-0.5 Spot 239	209	295031	2.5	18.1360	1.0	0.5251	1.6	0.0691	1.2	0.76	430.7	5.1	428.5	5.6	416.9	23.2	430.7	5.1	103.3
-RB-0.5 Spot 130	152	60879	2.0	17.9797	1.1	0.5319	1.6	0.0694	1.2	0.73	432.5	4.9	433.1	5.7	436.2	24.6	432.5	4.9	99.2
-RB-0.5 Spot 271	94	93148	1.4	17.6485	1.4	0.5423	2.0	0.0694	1.5	0.73	432.8	6.1	440.0	7.1	477.4	30.4	432.8	6.1	90.7
-RB-0.5 Spot 200	887	79180	0.5	18.0176	0.8	0.5319	2.0	0.0695	1.8	0.91	433.4	7.6	433.1	7.0	431.5	17.9	433.4	7.6	100.4
-RB-0.5 Spot 43	172	17152	2.8	18.3247	1.2	0.5256	1.8	0.0699	1.4	0.75	435.4	5.8	428.9	6.4	393.7	27.1	435.4	5.8	110.0
-RB-0.5 Spot 81	123	10848	1.4	18.3884	1.0	0.5278	1.6	0.0704	1.2	0.75	438.7	5.0	430.4	5.5	385.9	23.2	438.7	5.0	113.7
-RB-0.5 Spot 289	114	16969	2.3	18.0495	1.3	0.5392	1.8	0.0706	1.2	0.67	439.9	5.1	437.9	6.3	427.9	29.4	439.9	5.1	102.9
-RB-0.5 Spot 281	168	229149	3.8	17.9473	1.0	0.5430	1.9	0.0707	1.6	0.84	440.4	6.6	440.4	6.6	440.2	22.5	440.4	6.6	100.1
-RB-0.5 Spot 252	162	18039	1.6	18.2765	1.3	0.5343	1.9	0.0709	1.4	0.73	441.3	5.9	434.7	6.8	399.6	29.4</			

-RB-0 5 Spot 40	436	170762	1.4	13.7501	0.7	1.5727	1.8	0.1560	1.7	0.93	930.6	14.8	959.5	11.3	1005.5	13.9	1005.5	13.9	93.4
-RB-0 5 Spot 172	267	94730	2.1	13.8943	0.9	1.7282	1.4	0.1715	1.1	0.77	1020.5	10.2	1018.3	9.0	1013.7	18.0	1013.7	18.0	100.7
-RB-0 5 Spot 65	176	788950	1.0	13.5858	1.1	1.4578	1.6	0.1458	1.2	0.76	877.1	10.3	917.2	9.9	1014.9	21.4	1014.9	21.4	89.4
-RB-0 5 Spot 50	118	75991	2.8	13.8822	0.9	1.7378	1.3	0.1725	0.9	0.71	1029.0	8.9	1022.6	8.5	1015.5	18.6	1015.5	18.6	101.0
-RB-0 5 Spot 122	95	43130	2.5	13.8532	1.1	1.7705	1.5	0.1754	1.1	0.71	1041.7	10.5	1034.7	10.0	1019.8	22.1	1019.8	22.1	102.2
-RB-0 5 Spot 242	211	17730999	1.9	13.9485	0.8	1.7851	1.3	0.1768	1.0	0.78	1049.2	10.1	1040.0	8.7	1020.8	16.9	1020.8	16.9	102.8
-RB-0 5 Spot 16	181	94925	2.6	13.8460	0.9	1.7489	1.4	0.1730	1.1	0.79	1028.5	10.6	1026.0	9.1	1020.8	17.5	1020.8	17.5	100.7
-RB-0 5 Spot 181	269	137896	2.2	13.6390	0.8	1.7359	1.5	0.1718	1.2	0.82	1022.0	11.4	1022.0	9.5	1021.9	17.0	1021.9	17.0	100.0
-RB-0 5 Spot 203	111	260215	2.1	13.6302	1.1	1.7718	1.6	0.1752	1.2	0.74	1040.9	11.2	1035.2	10.2	1023.2	21.3	1023.2	21.3	101.7
-RB-0 5 Spot 177	169	91373	2.3	13.6147	1.0	1.7819	1.4	0.1760	1.0	0.70	1045.2	9.3	1038.9	8.9	1025.5	19.7	1025.5	19.7	101.9
-RB-0 5 Spot 222	167	38170	0.6	13.6130	0.9	1.7289	1.5	0.1708	1.1	0.77	1016.3	10.5	1019.3	9.3	1025.8	18.8	1025.8	18.8	99.1
-RB-0 5 Spot 186	161	90965	2.9	13.6112	0.9	1.7570	1.5	0.1735	1.2	0.82	1031.5	11.5	1029.7	9.6	1026.0	17.4	1026.0	17.4	100.5
-RB-0 5 Spot 77	282	93560	2.6	13.5478	1.0	1.7719	1.5	0.1742	1.1	0.72	1035.1	10.5	1035.2	9.8	1035.5	21.0	1035.5	21.0	100.0
-RB-0 5 Spot 98	283	158115	2.3	13.5383	1.0	1.7267	1.6	0.1698	1.3	0.80	1010.0	12.2	1018.5	10.5	1036.9	19.8	1036.9	19.8	97.4
-RB-0 5 Spot 237	77	43637	0.6	13.5257	0.9	1.8594	1.4	0.1822	1.1	0.77	1078.9	11.0	1065.7	9.5	1038.7	16.5	1038.7	16.5	103.9
-RB-0 5 Spot 277	322	58145	2.0	13.5199	0.9	1.7709	1.8	0.1737	1.5	0.86	1032.6	14.5	1034.9	11.5	1039.6	18.4	1039.6	18.4	99.3
-RB-0 5 Spot 188	155	63140	2.7	13.5162	0.9	1.7580	1.5	0.1724	1.2	0.80	1025.6	11.2	1030.1	8.6	1039.6	18.0	1039.6	18.0	99.6
-RB-0 5 Spot 32	234	65680	1.0	13.5076	0.8	1.8272	1.3	0.1791	1.1	0.82	1062.0	10.8	1055.3	9.7	1041.5	15.4	1041.5	15.4	102.0
-RB-0 5 Spot 102	101	66240	2.6	13.5055	1.0	1.7722	1.5	0.1737	1.1	0.73	1032.3	10.4	1035.3	9.6	1041.8	20.4	1041.8	20.4	99.1
-RB-0 5 Spot 295	85	20936	1.7	13.4663	1.1	1.7883	1.6	0.1747	1.1	0.70	1038.1	10.5	1041.2	10.1	1047.8	22.3	1047.8	22.3	99.1
-RB-0 5 Spot 149	309	310579	80.2	13.4377	0.9	1.7872	1.6	0.1743	1.4	0.84	1035.5	13.1	1040.8	10.6	1052.0	17.7	1052.0	17.7	98.4
-RB-0 5 Spot 150	205	70849	1.4	13.4337	0.9	1.8541	1.9	0.1807	1.7	0.88	1070.9	16.4	1064.9	12.4	1052.5	17.8	1052.5	17.8	101.7
-RB-0 5 Spot 21	222	94090	0.9	13.4006	0.8	1.8572	1.4	0.1806	1.1	0.80	1070.1	10.9	1066.0	9.1	1057.5	16.7	1057.5	16.7	101.2
-RB-0 5 Spot 266	179	33306	1.4	13.3503	0.8	1.9228	1.4	0.1863	1.2	0.85	1101.1	12.4	1089.1	9.6	1065.1	15.2	1065.1	15.2	103.4
-RB-0 5 Spot 89	229	86777	1.7	13.3434	0.7	1.9459	1.4	0.1787	1.2	0.85	1080.0	11.7	1062.0	9.3	1066.1	15.0	1066.1	15.0	99.4
-RB-0 5 Spot 61	128	27485	0.8	13.3348	1.0	1.8809	1.3	0.1820	0.9	0.68	1077.8	9.0	1074.4	8.8	1067.4	19.5	1067.4	19.5	101.0
-RB-0 5 Spot 39	26	12329	0.6	13.3346	1.3	1.7792	1.9	0.1721	1.4	0.73	1023.9	13.1	1037.9	12.3	1067.5	26.2	1067.5	26.2	95.9
-RB-0 5 Spot 48	81	35236	1.5	13.3055	1.2	1.8748	1.6	0.1810	1.1	0.69	1072.4	11.1	1072.2	10.9	1071.8	24.0	1071.8	24.0	100.1
-RB-0 5 Spot 60	376	95733	2.8	13.2988	0.7	1.8768	1.6	0.1811	1.5	0.91	1073.0	14.8	1072.9	10.8	1072.9	13.3	1072.9	13.3	100.0
-RB-0 5 Spot 276	85	25429	3.2	13.2965	1.0	1.9312	1.7	0.1863	1.4	0.80	1101.4	13.9	1091.9	11.4	1073.2	20.3	1073.2	20.3	102.8
-RB-0 5 Spot 286	573	126338	1.1	13.2912	0.7	1.8703	1.4	0.1804	1.3	0.88	1069.0	12.5	1070.5	9.6	1074.0	14.0	1074.0	14.0	99.5
-RB-0 5 Spot 249	122	65772	2.5	13.2698	0.9	1.8396	1.3	0.1807	0.9	0.70	1103.7	9.4	1094.8	8.8	1077.2	18.8	1077.2	18.8	102.5
-RB-0 5 Spot 204	35	51856	0.8	13.2478	1.3	1.8588	1.8	0.1884	1.2	0.70	1112.6	12.8	1101.8	11.9	1080.5	25.4	1080.5	25.4	103.0
-RB-0 5 Spot 175	78	114191	0.8	13.2267	0.9	1.8365	1.4	0.1762	1.1	0.75	1046.4	10.7	1058.6	9.3	1083.7	17.9	1083.7	17.9	98.6
-RB-0 5 Spot 125	191	70515	2.4	13.2194	0.8	1.9231	1.5	0.1845	1.2	0.82	1091.3	12.3	1089.2	9.9	1084.9	17.0	1084.9	17.0	100.8
-RB-0 5 Spot 269	212	90805	153.7	13.1763	0.9	1.9049	1.6	0.1821	1.3	0.82	1078.5	12.9	1082.8	10.6	1091.4	18.4	1091.4	18.4	98.8
-RB-0 5 Spot 224	647	357928	9.3	13.1759	0.7	1.9414	1.7	0.1856	1.6	0.92	1097.5	16.2	1095.5	11.7	1091.5	13.8	1091.5	13.8	100.5
-RB-0 5 Spot 137	180	729303	1.6	13.1549	0.9	1.8897	1.4	0.1804	1.1	0.76	1069.0	10.7	1077.5	9.4	1094.7	18.4	1094.7	18.4	97.7
-RB-0 5 Spot 147	112	27503400	1.4	13.1004	0.9	1.9717	1.4	0.1874	1.1	0.78	1107.4	10.9	1105.9	9.3	1103.0	17.5	1103.0	17.5	100.4
-RB-0 5 Spot 288	323	48300	1.5	13.0625	0.9	1.9999	1.3	0.1895	1.0	0.76	1118.9	10.2	1115.5	8.9	1108.7	17.2	1108.7	17.2	100.9
-RB-0 5 Spot 206	103	71313	1.4	13.0597	1.0	1.9205	1.4	0.1820	1.0	0.71	1077.8	9.5	1088.3	9.1	1109.2	19.3	1109.2	19.3	97.2
-RB-0 5 Spot 314	22	7341	2.6	13.0596	1.2	2.0060	1.9	0.1901	1.6	0.80	1121.8	16.1	1117.5	13.2	1109.2	23.3	1109.2	23.3	101.1
-RB-0 5 Spot 138	187	113799	2.3	13.0444	0.8	1.9546	1.4	0.1850	1.1	0.79	1094.2	11.0	1100.0	9.3	1111.5	16.9	1111.5	16.9	98.4
-RB-0 5 Spot 47	35	29653	1.3	13.0230	1.4	1.9118	1.8	0.1808	1.2	0.84	1070.5	11.5	1085.2	12.3	1114.8	28.4	1114.8	28.4	98.0
-RB-0 5 Spot 123	103	177804	1.8	12.9942	0.7	1.9939	1.3	0.1880	1.1	0.83	1110.5	10.7	1113.4	8.5	1119.2	14.0	1119.2	14.0	99.2
-RB-0 5 Spot 243	41	64781	1.4	12.9729	1.0	2.0316	1.5	0.1912	1.2	0.78	1128.1	12.2	1128.2	10.3	1122.5	19.0	1122.5	19.0	100.5
-RB-0 5 Spot 53	599	134840	2.6	12.9644	0.8	1.9727	1.9	0.1856	1.7	0.90	1097.3	16.9	1106.2	12.6	1123.8	16.3	1123.8	16.3	97.6
-RB-0 5 Spot 18	109	90322	2.0	12.9600	1.0	2.0430	1.4	0.1921	1.0	0.70	1132.8	10.4	1130.0	9.7	1124.5	20.2	1124.5	20.2	100.7
-RB-0 5 Spot 211	26	20199	1.1	12.9126	1.2	2.0190	1.9	0.1892	1.5	0.79	1116.8	15.7	1121.9	13.2	1131.8	23.8	1131.8	23.8	98.7
-RB-0 5 Spot 115	241	112361	2.9	12.8718	0.9	2.0299	1.3	0.1896	1.0	0.75	1119.1	10.2	1125.8	9.0	1138.1	17.5	1138.1	17.5	98.3
-RB-0 5 Spot 9	65	23973	0.9	12.8666	0.9	2.0328	1.5	0.1898	1.2	0.79	1120.2	12.1	1126.5	10.2	1138.9	18.5	1138.9	18.5	98.4
-RB-0 5 Spot 257	106	89895	1.8	12.8561	0.9	2.1324	1.2	0.1989	0.8	0.68	1169.5	8.7	1159.4	8.2	1140.5	17.3	1140.5	17.3	102.5
-RB-0 5 Spot 157	201	63719	2.4	12.8508	0.8	2.1185	1.3	0.1975	1.0	0.78	1162.1	11.0	1154.9	9.1	1141.3	16.2	1141.3	16.2	101.8
-RB-0 5 Spot 217	130	89997	2.5	12.8121	1.0	2.0904	1.6	0.1943	1.2	0.78	1144.8	13.0	1145.6	10.9	1147.3	19.6	1147.3	19.6	99.8
-RB-0 5 Spot 182	14	94635	1.3	12.7832	1.7	1.8911	2.1	0.1751	1.2	0.80	1040.3	11.9	1078.0	13.8	1154.9	33.2	1154.9	33.2	90.1
-RB-0 5 Spot 196	155	54581	2.8	12.7508	0.7	2.1141	1.5	0.1956	1.3	0.88	1151.6	14.2	1153.4	10.5	1156.8	14.4	1156.8	14.4	99.5
-RB-0 5 Spot 120	561	890517	4.3	12.7092	0.8	2.1237	1.7	0.1958	1.5	0.89	1152.9	16.1	1156.5	11.9	1163.3	15.8	1163.3	15.8	99.1
-RB-0 5 Spot 139	339	758911	2.3	12.7066	0.8	2.1036	1.2	0.1938	0.9	0.74	1142.7	9.0	1150.0	8.0	1163.7	15.6	1163.7	15.6	98.2
-RB-0 5 Spot 173	84	159390	1.4	12.6940	1.0	2.1396	1.4	0.1971	1.0	0.70	1159.6	10.4	1161.7	9.8	1165.7	20.1	1165.7	20.1	99.5
-RB-0 5 Spot 136	103	34014	1.6	12.6731	0.9	2.1829	1.4	0.2016	1.1	0.77	1184.1	11.5	1178.8	9.6	1169.0	17.2	1169.0	17.2	101.3
-RB-0 5 Spot 106	342	95793	2.0	12.6566	1.0	2.1971	1.5	0.2018	1.1	0.76	1184.8	12.3	1180.1	10.5	1171.5	19.4	1171.5	19.4	101.1
-RB-0 5 Spot 75	345	102510	2.2																

-RB-0 5 Spot 55	214	96667	2.9	11.4190	0.8	2.2420	1.3	0.1858	1.0	0.78	1098.3	10.5	1194.3	9.3	1372.3	15.9	1372.3	15.9	80.0
-RB-0 5 Spot 143	148	45609	1.3	11.3902	0.9	2.9638	1.6	0.2448	1.3	0.81	1412.4	16.2	1398.4	12.0	1377.1	17.7	1377.1	17.7	102.6
-RB-0 5 Spot 226	171	75728	2.6	11.3564	0.8	2.9341	1.5	0.2418	1.3	0.81	1395.9	16.5	1390.7	11.0	1382.9	11.8	1382.9	11.8	100.9
-RB-0 5 Spot 294	304	7198955	1.3	11.2400	0.9	2.9178	1.5	0.2380	1.2	0.79	1378.1	14.3	1386.5	11.1	1402.6	17.3	1402.6	17.3	98.1
-RB-0 5 Spot 214	73	42860	2.2	11.1757	0.9	3.1198	1.3	0.2530	0.9	0.70	1453.8	11.9	1437.6	10.0	1413.6	17.7	1413.6	17.7	102.8
-RB-0 5 Spot 250	268	1326504	2.0	11.1486	0.8	3.1228	1.3	0.2526	1.1	0.79	1451.9	13.8	1438.3	10.3	1418.2	15.8	1418.2	15.8	102.4
-RB-0 5 Spot 302	96	34320	1.5	11.0789	0.7	3.1297	1.5	0.2515	1.3	0.88	1446.4	17.1	1440.0	11.6	1430.6	13.9	1430.6	13.9	101.1
-RB-0 5 Spot 301	280	102075	2.6	11.0183	0.9	3.2989	1.7	0.2637	1.4	0.85	1508.7	19.0	1480.8	12.9	1441.0	16.4	1441.0	16.4	104.7
-RB-0 5 Spot 178	209	117720	1.8	10.9660	0.7	3.1645	1.5	0.2516	1.3	0.89	1446.5	17.0	1448.6	11.4	1451.5	12.9	1451.5	12.9	99.7
-RB-0 5 Spot 238	143	42278	2.0	10.8827	0.8	3.3196	1.4	0.2621	1.2	0.81	1500.7	15.5	1485.7	11.2	1464.2	16.1	1464.2	16.1	102.5
-RB-0 5 Spot 210	161	63485	2.3	10.8809	0.8	2.8541	1.4	0.2095	1.1	0.79	1228.4	12.0	1315.8	10.0	1464.6	15.8	1464.6	15.8	83.7
-RB-0 5 Spot 311	73	98004	1.8	10.8598	1.0	3.3847	1.6	0.2667	1.2	0.79	1524.1	16.8	1500.9	12.2	1468.2	18.2	1468.2	18.2	103.8
-RB-0 5 Spot 202	322	232927	2.5	10.8032	0.7	3.1130	1.3	0.2440	1.1	0.83	1407.8	13.7	1435.9	10.0	1478.2	13.7	1478.2	13.7	95.2
-RB-0 5 Spot 22	116	117422	1.7	10.7324	0.9	3.4468	1.4	0.2684	1.1	0.78	1532.7	15.1	1515.1	11.2	1490.6	16.9	1490.6	16.9	102.9
-RB-0 5 Spot 168	406	282731	5.1	10.7123	0.7	3.3829	1.6	0.2629	1.5	0.80	1504.9	19.9	1500.4	12.9	1494.2	13.5	1494.2	13.5	100.7
-RB-0 5 Spot 121	246	94185	1.2	10.7085	1.0	3.3126	1.6	0.2574	1.2	0.76	1476.4	15.7	1484.0	12.3	1494.8	19.5	1494.8	19.5	98.8
-RB-0 5 Spot 156	69	24847	1.5	10.6794	1.0	3.4005	1.4	0.2635	0.9	0.68	1507.7	12.8	1504.5	10.9	1500.0	19.3	1500.0	19.3	100.5
-RB-0 5 Spot 159	73	100511	1.6	10.6442	1.0	3.3406	1.6	0.2580	1.2	0.76	1479.6	15.8	1490.6	12.3	1508.2	19.4	1508.2	19.4	98.2
-RB-0 5 Spot 146	109	274000	1.4	10.6142	0.8	3.3761	1.4	0.2600	1.1	0.79	1489.9	14.6	1498.9	10.8	1511.6	15.8	1511.6	15.8	98.6
-RB-0 5 Spot 78	716	158789	1.9	10.5867	1.0	3.3475	1.7	0.2571	1.4	0.84	1475.2	19.1	1492.2	13.6	1516.5	17.9	1516.5	17.9	97.3
-RB-0 5 Spot 299	506	475257	1.8	10.5708	1.0	3.3861	2.2	0.2597	1.9	0.88	1488.4	26.2	1501.2	17.0	1519.3	19.8	1519.3	19.8	98.0
-RB-0 5 Spot 62	81	253856	2.4	10.4012	0.9	3.5185	1.5	0.2655	1.3	0.81	1518.1	16.9	1531.4	12.2	1549.7	17.0	1549.7	17.0	98.0
-RB-0 5 Spot 212	429	363232	5.4	10.3080	0.9	3.6302	1.8	0.2715	1.6	0.87	1548.5	22.0	1566.2	14.6	1566.6	16.7	1566.6	16.7	98.8
-RB-0 5 Spot 5	140	89545	2.4	10.0660	0.9	3.8949	1.4	0.2845	1.0	0.76	1613.8	14.7	1612.6	11.0	1611.0	16.5	1611.0	16.5	100.2
-RB-0 5 Spot 54	245	809622	1.2	10.0383	0.8	3.4624	1.3	0.2522	1.0	0.76	1449.8	13.1	1518.7	10.4	1616.1	15.8	1616.1	15.8	98.7
-RB-0 5 Spot 218	119	105896	1.0	10.0249	0.8	3.8496	1.5	0.2800	1.2	0.83	1591.4	17.1	1603.2	11.7	1618.6	15.1	1618.6	15.1	99.3
-RB-0 5 Spot 208	188	115262	0.8	10.0186	0.7	3.9579	1.2	0.2884	1.0	0.79	1633.4	13.8	1627.7	9.8	1620.2	13.7	1620.2	13.7	100.8
-RB-0 5 Spot 162	220	434968	3.2	9.9890	0.6	3.9826	1.1	0.2897	0.9	0.85	1634.8	13.2	1630.7	8.7	1625.3	10.5	1625.3	10.5	100.6
-RB-0 5 Spot 262	200	93806	0.9	9.9562	0.9	3.9375	1.5	0.2845	1.2	0.81	1614.0	17.3	1621.4	12.1	1631.0	16.1	1631.0	16.1	99.0
-RB-0 5 Spot 119	96	26038	0.8	9.9361	0.8	3.9137	1.3	0.2822	1.0	0.77	1602.2	13.8	1616.5	10.1	1635.2	14.9	1635.2	14.9	98.0
-RB-0 5 Spot 97	426	832679	1.1	9.9351	1.0	4.1160	2.0	0.2969	1.8	0.87	1678.1	26.0	1658.1	16.9	1635.4	19.0	1635.4	19.0	102.5
-RB-0 5 Spot 284	342	92533	3.8	9.9336	0.7	4.0333	1.5	0.2907	1.3	0.88	1645.1	18.8	1640.9	11.9	1635.6	12.6	1635.6	12.6	100.6
-RB-0 5 Spot 46	402	2075736	3.8	9.8996	0.8	4.0174	1.6	0.2886	1.4	0.88	1634.4	19.8	1637.7	12.7	1642.0	13.9	1642.0	13.9	99.5
-RB-0 5 Spot 126	125	287496	1.5	9.8904	0.7	4.0174	1.4	0.2883	1.2	0.86	1633.0	17.9	1637.7	11.7	1643.7	13.5	1643.7	13.5	99.3
-RB-0 5 Spot 26	104	67968	3.0	9.8898	0.8	4.0896	1.3	0.2933	1.0	0.77	1657.8	15.1	1651.6	10.9	1643.8	15.6	1643.8	15.6	100.8
-RB-0 5 Spot 174	98	88568	0.7	9.8736	0.8	4.0900	1.5	0.2930	1.2	0.84	1656.6	18.1	1652.3	12.0	1646.9	14.9	1646.9	14.9	100.6
-RB-0 5 Spot 52	185	100633	1.2	9.8723	0.9	3.9539	1.3	0.2832	0.9	0.71	1607.6	13.1	1624.8	10.4	1647.1	16.8	1647.1	16.8	97.6
-RB-0 5 Spot 165	291	169412	1.9	9.8681	0.8	4.1504	1.4	0.2972	1.1	0.80	1677.3	16.1	1664.3	11.2	1647.9	15.3	1647.9	15.3	101.8
-RB-0 5 Spot 93	404	201053	2.2	9.8667	0.8	3.9540	1.1	0.2831	0.8	0.72	1608.8	11.6	1624.8	9.1	1648.2	14.5	1648.2	14.5	97.5
-RB-0 5 Spot 145	37	25115	0.9	9.8652	1.0	4.0437	1.6	0.2894	1.3	0.81	1638.8	19.2	1643.0	13.4	1648.5	17.9	1648.5	17.9	99.4
-RB-0 5 Spot 308	86	439238	0.7	9.8383	0.9	4.1460	1.8	0.2962	1.5	0.85	1672.4	22.0	1664.1	14.4	1653.5	17.3	1653.5	17.3	101.1
-RB-0 5 Spot 183	53	271678	1.4	9.8358	1.0	4.2421	1.6	0.3027	1.3	0.81	1704.9	19.6	1682.2	13.3	1654.0	17.7	1654.0	17.7	103.1
-RB-0 5 Spot 2	129	36755	0.6	9.8159	0.7	4.0698	1.3	0.2899	1.1	0.82	1640.8	15.7	1648.3	10.7	1657.8	13.8	1657.8	13.8	99.0
-RB-0 5 Spot 305	103	83577	1.4	9.8155	0.9	4.2733	1.4	0.3043	1.1	0.77	1712.8	15.8	1688.2	11.2	1657.8	16.1	1657.8	16.1	103.3
-RB-0 5 Spot 100	359	130885	1.7	9.8093	0.9	3.8793	1.7	0.2761	1.5	0.86	1571.7	20.6	1609.4	13.8	1659.0	16.0	1659.0	16.0	94.7
-RB-0 5 Spot 254	184	1066716	1.7	9.7901	1.0	4.0976	1.5	0.2911	1.2	0.76	1646.9	16.8	1653.8	12.4	1662.6	18.2	1662.6	18.2	99.1
-RB-0 5 Spot 70	133	44934	1.2	9.7774	0.8	4.2388	1.4	0.3007	1.2	0.84	1694.8	17.3	1681.6	11.4	1665.0	14.1	1665.0	14.1	101.8
-RB-0 5 Spot 96	92	88153	2.0	9.7594	0.9	4.2810	1.5	0.3031	1.1	0.78	1706.9	17.2	1689.7	12.2	1668.4	17.1	1668.4	17.1	102.3
-RB-0 5 Spot 99	176	30253	0.8	9.7460	1.5	3.3731	1.9	0.2385	1.1	0.59	1379.0	13.5	1498.2	14.5	1671.0	27.8	1671.0	27.8	82.5
-RB-0 5 Spot 124	230	1488896	1.2	9.7378	0.8	4.0770	1.3	0.2881	1.0	0.78	1631.9	14.8	1649.7	10.8	1672.5	15.5	1672.5	15.5	97.8
-RB-0 5 Spot 158	286	90880	1.4	9.7301	0.8	4.1529	1.3	0.2932	1.0	0.78	1657.5	15.2	1664.8	10.9	1674.0	15.3	1674.0	15.3	99.0
-RB-0 5 Spot 241	121	110024	0.8	9.7000	0.7	4.1917	1.3	0.2950	1.1	0.85	1668.6	16.0	1672.4	10.5	1679.7	12.4	1679.7	12.4	99.2
-RB-0 5 Spot 118	247	124063	1.0	9.6853	0.7	4.3343	1.3	0.3046	1.1	0.83	1714.1	15.9	1699.9	10.6	1682.5	13.3	1682.5	13.3	101.9
-RB-0 5 Spot 113	407	2238404	0.8	9.6850	0.7	4.2423	1.5	0.2981	1.4	0.80	1682.0	20.4	1682.3	12.6	1682.6	12.4	1682.6	12.4	100.0
-RB-0 5 Spot 189	822	1830717	3.2	9.6394	0.9	3.8356	2.0	0.2882	1.8	0.89	1531.9	23.9	1600.3	15.8	1691.5	16.3	1691.5	16.3	90.8
-RB-0 5 Spot 15	83	41188	1.3	9.6034	0.8	4.2441	1.3	0.2967	1.0	0.77	1670.1	15.0	1682.6	10.9	1698.2	15.6	1698.2	15.6	98.3
-RB-0 5 Spot 68	360	283474	0.9	9.6028	0.8	4.3048	1.3	0.2999	1.1	0.81	1691.0	16.3	1694.3	11.1	1698.3	14.3	1698.3	14.3	99.6
-RB-0 5 Spot 133	112	101799	2.4	9.5855	0.8	4.2931	1.3	0.2986	1.0	0.78	1684.3	14.8	1682.0	10.6	1701.6	14.9	1701.6	14.9	99.0
-RB-0 5 Spot 220	368	2549667	2.0	9.5849	0.7	4.4290	1.5	0.3080	1.3	0.87	1731.0	20.0	1717.8	12.5	1701.7	13.8	1701.7	13.8	101.7
-RB-0 5 Spot 56	89	103311	0.8	9.5516	0.9	4.3456	1.4	0.3012	1.1	0.79	1697.1	16.5	1702.1	11.6	1708.1	15.9	1708.1	15.9	99.4
-RB-0 5 Spot 232	312	501350	2.5	9.5140	0.8	4.1513	2.0	0.2886	1.9	0.92	1624.4	26.7	1664.5	16.6	1715.4	14.6	1715.4	14.6	94.7
-RB-0 5 Spot 229	164</																		

-RB-0 5 Spot 260	185	156519	2.2	8.9323	0.8	4.9355	1.2	0.3199	0.8	0.71	1789.1	13.0	1808.3	9.9	1830.6	14.8	1830.6	14.8	97.7
-RB-0 5 Spot 116	29	102836	0.9	8.9267	1.2	4.9149	1.8	0.3183	1.3	0.75	1781.6	20.8	1804.8	15.1	1831.7	21.4	1831.7	21.4	97.3
-RB-0 5 Spot 117	384	1133912	1.8	8.9083	0.8	5.0494	2.0	0.3262	1.8	0.91	1820.1	28.5	1827.5	16.8	1835.8	15.1	1835.8	15.1	99.1
-RB-0 5 Spot 67	147	92482	1.5	8.8842	0.8	5.2574	1.0	0.3389	0.8	0.81	1881.4	13.6	1862.0	8.7	1840.3	10.8	1840.3	10.8	102.2
-RB-0 5 Spot 267	114	62962	1.8	8.8694	0.8	5.1347	1.3	0.3304	1.0	0.79	1840.5	16.5	1841.9	11.1	1843.4	14.4	1843.4	14.4	99.8
-RB-0 5 Spot 144	440	308408	4.9	8.8146	0.8	5.0002	2.0	0.3198	1.8	0.93	1788.8	28.7	1819.4	16.8	1854.6	13.6	1854.6	13.6	96.5
-RB-0 5 Spot 23	351	510674	3.1	8.8863	0.7	4.9994	1.4	0.3151	1.2	0.86	1765.7	18.9	1819.2	12.0	1881.0	13.1	1881.0	13.1	93.9
-RB-0 5 Spot 228	187	1465297	1.9	8.8453	0.8	5.2661	1.5	0.3303	1.2	0.85	1940.0	20.0	1863.4	12.5	1889.5	13.6	1889.5	13.6	97.4
-RB-0 5 Spot 297	39	28758	0.8	8.6355	1.1	5.4920	1.6	0.3441	1.2	0.71	1906.4	19.1	1899.3	14.0	1891.6	20.7	1891.6	20.7	100.8
-RB-0 5 Spot 274	236	162419	1.5	8.6276	0.9	5.4463	1.6	0.3409	1.3	0.83	1891.2	21.8	1892.2	13.7	1893.2	16.1	1893.2	16.1	99.9
-RB-0 5 Spot 291	359	343986	96.6	8.6243	0.7	5.3440	1.5	0.3344	1.3	0.89	1859.7	21.5	1875.9	12.8	1893.9	12.1	1893.9	12.1	98.2
-RB-0 5 Spot 19	66	358300	0.8	8.5297	0.8	5.5932	1.4	0.3462	1.2	0.84	1918.2	19.8	1915.1	12.2	1913.7	13.6	1913.7	13.6	100.1
-RB-0 5 Spot 295	216	585915	1.6	8.4991	0.9	5.6240	1.6	0.3468	1.2	0.80	1919.4	20.7	1919.8	13.4	1920.2	16.8	1920.2	16.8	100.0
-RB-0 5 Spot 91	184	430424	3.2	8.4955	0.8	5.0637	1.3	0.3121	1.1	0.81	1751.2	16.6	1830.0	11.4	1920.9	14.2	1920.9	14.2	91.2
-RB-0 5 Spot 80	109	113520	2.1	8.4677	0.9	5.5452	1.3	0.3407	1.0	0.75	1890.0	16.3	1907.6	11.4	1926.8	15.7	1926.8	15.7	98.1
-RB-0 5 Spot 283	159	245872	1.1	8.4164	0.8	5.8084	1.7	0.3547	1.5	0.87	1957.0	24.6	1947.7	14.5	1937.7	14.6	1937.7	14.6	101.0
-RB-0 5 Spot 265	68	34945	1.9	8.3848	1.0	5.9146	1.9	0.3598	1.6	0.85	1981.4	27.8	1963.4	16.7	1944.4	18.1	1944.4	18.1	101.9
-RB-0 5 Spot 282	140	74755	2.4	8.3233	0.9	5.7619	1.4	0.3480	1.1	0.75	1924.9	17.8	1940.7	12.3	1957.6	16.9	1957.6	16.9	98.3
-RB-0 5 Spot 176	101	150423	2.1	8.3211	1.0	5.8832	1.5	0.3552	1.1	0.75	1959.4	19.3	1958.8	13.3	1958.1	18.2	1958.1	18.2	100.1
-RB-0 5 Spot 7	760	9772742	7.1	8.1975	0.9	5.1156	1.8	0.3043	1.5	0.85	1712.5	23.1	1838.7	15.3	1984.7	16.6	1984.7	16.6	86.3
-RB-0 5 Spot 27	74	114923	1.1	8.1436	0.7	4.8044	1.6	0.2839	1.4	0.89	1610.9	20.4	1785.7	13.5	1996.4	12.8	1996.4	12.8	80.7
-RB-0 5 Spot 273	168	139300	1.6	8.1386	0.8	6.0000	1.6	0.3543	1.4	0.87	1955.2	23.7	1975.8	14.0	1997.5	13.9	1997.5	13.9	97.9
-RB-0 5 Spot 135	298	84836	1.9	8.1341	0.9	5.8896	1.4	0.3476	1.1	0.78	1923.1	18.0	1959.7	12.0	1998.5	15.4	1998.5	15.4	96.2
-RB-0 5 Spot 37	386	776137	2.2	7.8237	0.7	5.3617	1.2	0.3044	1.0	0.80	1712.9	14.8	1878.8	10.5	2067.4	12.9	2067.4	12.9	82.9
-RB-0 5 Spot 198	724	375760	1.9	7.8166	0.9	6.1751	1.9	0.3502	1.7	0.89	1935.7	28.9	2000.9	17.0	2099.0	15.8	2099.0	15.8	93.6
-RB-0 5 Spot 287	194	480933	1.5	7.6624	0.8	6.8306	1.7	0.3798	1.5	0.87	2075.2	25.9	2089.7	14.9	2104.0	14.8	2104.0	14.8	98.6
-RB-0 5 Spot 307	57	59843	1.7	8.8874	0.8	8.7961	1.3	0.4383	1.0	0.78	2343.0	20.5	2317.1	12.3	2294.3	14.6	2294.3	14.6	102.1
-RB-0 5 Spot 209	199	70986	1.4	8.8599	0.8	7.7549	1.2	0.3860	0.9	0.75	2104.2	17.0	2203.0	10.9	2296.2	13.0	2296.2	13.0	91.6
-RB-0 5 Spot 194	401	740147	2.2	6.8311	0.9	7.9319	2.1	0.3516	1.9	0.90	2083.9	34.2	2223.3	19.1	2354.3	15.4	2354.3	15.4	85.5
-RB-0 5 Spot 95	112	146169	0.7	6.3159	0.8	9.1270	1.3	0.4183	1.1	0.81	2252.6	20.2	2350.8	12.0	2437.2	13.1	2437.2	13.1	92.4
-RB-0 5 Spot 101	363	204570	2.0	6.2831	0.8	9.5685	1.4	0.4363	1.1	0.81	2333.9	21.7	2394.2	12.6	2446.0	13.6	2446.0	13.6	85.4
-RB-0 5 Spot 164	79	163849	0.8	6.2621	0.8	9.9939	1.2	0.4541	0.8	0.72	2413.4	17.0	2434.2	10.8	2451.7	13.9	2451.7	13.9	98.4
-RB-0 5 Spot 303	153	119272	1.8	6.1666	0.8	10.2570	1.2	0.4589	0.9	0.77	2434.9	18.7	2458.2	11.1	2477.6	13.0	2477.6	13.0	98.3
-RB-0 5 Spot 108	368	391183	56.7	6.1005	0.8	10.3660	1.8	0.4588	1.6	0.91	2434.4	32.9	2468.0	16.6	2465.8	12.6	2465.8	12.6	97.5
-RB-0 5 Spot 275	132	128356	1.8	5.9295	0.8	11.3080	1.3	0.4865	1.0	0.76	2555.6	20.7	2548.9	12.1	2543.5	14.2	2543.5	14.2	100.5
-RB-0 5 Spot 92	184	136230	1.2	5.7756	1.0	11.1413	1.5	0.4669	1.1	0.76	2469.9	22.9	2535.0	13.8	2587.5	16.2	2587.5	16.2	95.5
-RB-0 5 Spot 12	267	675639	2.6	5.7271	0.9	10.9124	1.7	0.4535	1.5	0.87	2410.6	30.5	2515.7	16.2	2601.6	14.3	2601.6	14.3	92.7
-RB-0 5 Spot 71	397	871871	5.8	5.7002	0.8	10.1640	2.1	0.4204	1.9	0.92	2262.2	36.7	2449.8	19.2	2609.4	13.2	2609.4	13.2	86.7
-RB-0 5 Spot 105	124	227656	1.7	5.6065	0.8	12.1019	1.5	0.4923	1.3	0.87	2580.6	27.9	2612.3	14.2	2637.0	12.5	2637.0	12.5	97.9
-RB-0 5 Spot 72	124	241067	2.2	5.4820	0.8	12.9411	1.1	0.5146	0.9	0.82	2676.9	19.9	2675.4	10.4	2674.2	10.4	2674.2	10.4	100.1
-RB-0 5 Spot 84	33	76814	0.8	5.4530	0.8	11.9688	1.3	0.4735	1.0	0.80	2498.8	21.2	2601.8	12.0	2683.0	12.6	2683.0	12.6	93.1
-RB-0 5 Spot 292	358	2012044	16.3	5.4385	0.7	11.8510	1.2	0.4598	1.0	0.80	2438.5	19.8	2676.8	11.3	2687.4	11.9	2687.4	11.9	90.7
-RB-0 5 Spot 28	221	154027	1.0	5.3928	0.8	13.2693	1.2	0.5192	1.1	0.87	2698.8	23.3	2699.0	11.5	2701.4	10.0	2701.4	10.0	99.8
-RB-0 5 Spot 244	159	47904	1.7	5.3739	0.8	12.9828	1.3	0.5086	1.0	0.77	2842.1	21.8	2879.1	12.2	2707.1	13.6	2707.1	13.6	97.6
-RB-0 5 Spot 197	539	1480802	1.4	5.3728	0.7	12.8117	1.7	0.4985	1.5	0.92	2611.5	32.5	2685.9	15.5	2707.5	10.8	2707.5	10.8	96.5
-RB-0 5 Spot 107	34	65741	0.9	5.3591	0.9	13.2858	1.5	0.5186	1.2	0.81	2694.8	26.8	2700.2	14.2	2711.7	14.4	2711.7	14.4	99.0
-RB-0 5 Spot 263	72	135253	1.7	5.3585	0.9	13.3819	1.5	0.5203	1.2	0.79	2700.4	26.3	2707.0	14.3	2711.9	15.3	2711.9	15.3	99.6
-RB-0 5 Spot 30	145	234442	1.2	5.2975	0.7	13.4404	1.3	0.5166	1.2	0.87	2684.8	25.7	2711.1	12.7	2730.7	10.9	2730.7	10.9	98.3
-RB-0 5 Spot 34	29	429286	1.0	5.2940	1.0	13.8371	1.5	0.5315	1.1	0.73	2747.9	24.6	2738.6	14.2	2731.8	16.7	2731.8	16.7	100.6
-RB-0 5 Spot 33	71	248844	1.7	5.2788	0.8	13.5478	1.5	0.5189	1.3	0.84	2694.5	28.7	2718.8	14.6	2736.6	13.6	2736.6	13.6	98.5
-RB-0 5 Spot 109	189	93780	0.9	5.2426	0.8	13.6880	1.2	0.5207	0.9	0.77	2702.1	20.6	2728.4	11.4	2747.9	12.6	2747.9	12.6	98.3
-RB-0 5 Spot 187	176	107467	1.1	5.2396	0.8	13.7495	1.3	0.5227	1.1	0.83	2710.7	24.3	2732.6	12.6	2748.8	12.3	2748.8	12.3	98.6
-RB-0 5 Spot 270	32	66683	0.6	5.2086	0.9	13.4567	1.6	0.5086	1.4	0.83	2650.4	29.5	2712.2	15.5	2758.5	15.1	2758.5	15.1	96.1
-RB-0 5 Spot 73	232	182184	1.7	5.1434	0.9	14.3110	1.6	0.5341	1.3	0.83	2758.6	29.1	2770.5	14.8	2779.2	14.2	2779.2	14.2	99.3
-RB-0 5 Spot 1	84	113651	1.0	5.0753	0.8	15.2209	1.2	0.5805	1.0	0.77	2888.8	22.2	2829.2	11.8	2801.1	12.8	2801.1	12.8	102.4
-RB-0 5 Spot 68	276	1875426	1.8	4.9310	0.8	14.7479	1.3	0.5277	1.1	0.81	2731.6	23.5	2799.1	12.4	2848.1	12.5	2848.1	12.5	95.9
-RB-0 5 Spot 31	51	24450	2.1	4.9085	0.9	15.8694	1.4	0.5590	1.1	0.79	2862.6	26.1	2858.5	13.7	2855.6	14.5	2855.6	14.5	100.2
-RB-0 5 Spot 233	137	374506	2.0	4.8596	0.8	15.9947	1.3	0.5640	1.0	0.78	2883.1	23.8	2876.5	12.6	2871.9	13.5	2871.9	13.5	100.4
-RB-0 5 Spot 57	339	456276	2.7	4.7889	0.7	16.6517	1.3	0.5786	1.1	0.86	2943.0	25.9	2915.0	12.3	2895.7	10.7	2895.7	10.7	101.6
-RB-0 5 Spot 290	79	4965389	1.4	4.1527	1.0	20.1238	1.7	0.6084	1.4	0.83	3055.4	34.4	3097.3	16.8	3124.6	15.4	3124.6	15.4	97.8
-RB-0 5 Spot 66	150	19011856	2.7	3.8550	0.8	23.2353	1.5	0.6499	1.3	0.85	3227.9	33.5	3236.8	15.0	3242.4	12.6	3242.4	12.6	99.6
-RB-0 5 Spot 230	610																		

-CCR-8 Spot 259	152	40561	1.2	17.4523	1.2	0.5413	1.6	0.0685	1.0	0.85	427.4	4.3	439.3	5.7	502.1	26.5	427.4	4.3	85.1
-CCR-8 Spot 198	199	9065	1.9	18.1434	1.0	0.5231	1.5	0.0689	1.1	0.74	429.3	4.7	427.2	5.4	418.0	23.1	429.3	4.7	103.2
-CCR-8 Spot 123	323	29394	1.9	17.9214	1.0	0.5302	1.3	0.0689	0.9	0.68	429.8	3.6	432.0	4.5	443.4	21.1	429.8	3.6	96.9
-CCR-8 Spot 62	158	20930	1.6	17.9278	1.0	0.5343	1.5	0.0685	1.1	0.73	433.1	4.5	434.6	5.1	442.6	22.1	433.1	4.5	97.9
-CCR-8 Spot 179	366	111845	19.8	18.1325	0.7	0.5292	1.5	0.0686	1.3	0.89	433.9	5.5	431.3	5.2	417.3	15.0	433.9	5.5	104.0
-CCR-8 Spot 286	226	13729	2.8	18.1737	1.1	0.5302	1.7	0.0689	1.3	0.77	435.6	5.5	431.9	6.0	412.2	24.4	435.6	5.5	106.7
-CCR-8 Spot 67	169	5742	1.9	18.5319	0.9	0.5203	1.5	0.0700	1.2	0.80	435.9	5.1	425.4	5.3	368.4	20.6	435.9	5.1	118.3
-CCR-8 Spot 204	186	10283	2.5	17.8729	1.2	0.5415	1.8	0.0702	1.3	0.73	437.5	5.4	439.4	6.3	449.4	26.8	437.5	5.4	97.3
-CCR-8 Spot 109	347	66940	1.6	17.7927	1.0	0.5443	1.6	0.0703	1.2	0.77	437.7	5.2	441.2	5.7	459.4	22.5	437.7	5.2	95.3
-CCR-8 Spot 194	53	5066	1.7	13.6120	4.2	0.7212	4.4	0.0712	1.3	0.29	443.5	5.5	551.4	18.5	1025.9	84.2	443.5	5.5	43.2
-CCR-8 Spot 74	248	58681	2.3	17.8968	0.9	0.5580	1.6	0.0725	1.3	0.82	450.9	5.6	450.2	5.7	446.5	20.3	450.9	5.6	101.0
-CCR-8 Spot 303	89	9263	1.8	17.8661	1.5	0.5566	1.9	0.0725	1.2	0.64	451.4	5.4	451.2	7.0	450.3	32.9	451.4	5.4	100.2
-CCR-8 Spot 12	187	19934	2.9	17.1415	1.0	0.6906	1.6	0.0847	1.3	0.79	523.9	6.4	527.2	6.6	541.5	21.4	523.9	6.4	96.7
-CCR-8 Spot 215	352	88871	0.8	16.8618	0.9	0.7499	1.9	0.0918	1.6	0.87	565.9	8.8	568.2	8.1	577.4	20.2	565.9	8.8	98.0
-CCR-8 Spot 106	983	11259	7.2	12.7938	0.7	0.9887	2.1	0.0918	2.0	0.95	566.1	10.9	598.1	10.7	1150.1	13.7	566.1	10.9	49.2
-CCR-8 Spot 144	130	6882	2.3	17.5384	1.0	0.7414	1.4	0.0944	1.0	0.70	581.2	5.6	583.2	6.2	491.3	22.4	581.2	5.6	118.3
-CCR-8 Spot 293	277	12116	2.7	16.9196	1.1	0.7793	1.5	0.0957	1.1	0.70	589.0	6.0	585.1	6.8	569.9	23.8	589.0	6.0	103.3
-CCR-8 Spot 274	39	8249	2.1	16.7355	1.5	0.8156	1.9	0.0960	1.2	0.64	608.8	7.2	605.6	8.8	593.7	32.3	608.8	7.2	102.5
-CCR-8 Spot 37	272	34229	1.8	16.1270	0.9	0.9140	1.5	0.1070	1.2	0.79	655.0	7.5	659.2	7.3	673.5	19.8	655.0	7.5	97.3
-CCR-8 Spot 209	219	45455	1.8	14.2030	0.7	1.5598	1.4	0.1607	1.2	0.85	960.8	10.4	954.3	8.4	939.4	14.6	939.4	10.4	102.3
-CCR-8 Spot 60	126	14661	3.1	13.9775	1.1	1.5891	1.7	0.1612	1.3	0.75	963.2	11.7	965.9	10.8	972.1	23.2	972.1	23.2	99.1
-CCR-8 Spot 93	146	17285	2.5	13.8717	0.8	1.7219	1.3	0.1733	0.9	0.75	1030.3	9.0	1016.7	8.1	987.8	16.9	987.8	16.9	104.3
-CCR-8 Spot 148	190	18848	2.2	13.8432	0.9	1.7271	1.5	0.1735	1.1	0.77	1031.2	10.9	1018.7	9.5	991.7	19.0	991.7	19.0	104.0
-CCR-8 Spot 31	605	100473	3.8	13.7150	0.7	1.6904	1.6	0.1682	1.4	0.89	1002.3	12.8	1004.9	9.9	1010.6	14.5	1010.6	14.5	99.2
-CCR-8 Spot 183	187	51093	1.9	13.6401	0.7	1.7249	1.3	0.1707	1.0	0.82	1016.0	9.7	1017.8	8.1	1021.7	14.6	1021.7	14.6	96.4
-CCR-8 Spot 121	138	33876	3.3	13.6358	0.9	1.7183	1.5	0.1700	1.2	0.80	1012.2	10.9	1015.4	9.3	1022.4	17.6	1022.4	17.6	99.0
-CCR-8 Spot 86	131	20235	2.3	13.6346	0.9	1.7248	1.5	0.1706	1.2	0.81	1015.6	11.4	1017.8	9.7	1022.5	18.1	1022.5	18.1	99.3
-CCR-8 Spot 9	200	54501	3.5	13.6313	0.7	1.7795	1.2	0.1760	1.0	0.82	1045.1	9.6	1038.0	7.8	1023.0	13.9	1023.0	13.9	102.2
-CCR-8 Spot 305	210	82846	2.9	13.6185	0.8	1.7354	1.4	0.1715	1.2	0.83	1020.1	11.2	1021.8	9.2	1025.2	16.1	1025.2	16.1	99.5
-CCR-8 Spot 178	350	245340	0.7	13.5902	0.8	1.7818	1.3	0.1737	1.1	0.82	1032.6	10.4	1031.5	8.7	1029.1	15.6	1029.1	15.6	100.3
-CCR-8 Spot 110	677	48985	3.2	13.5802	0.7	1.7508	1.8	0.1725	1.7	0.82	1025.9	16.0	1027.4	11.8	1030.6	14.3	1030.6	14.3	99.5
-CCR-8 Spot 214	35	4811	2.7	13.5435	1.1	1.7981	1.5	0.1767	1.0	0.85	1048.9	9.2	1044.8	9.6	1036.1	22.6	1036.1	22.6	101.2
-CCR-8 Spot 243	76	16656	2.1	13.4767	1.0	1.8127	1.5	0.1773	1.2	0.77	1051.9	11.4	1050.0	9.9	1046.1	19.4	1046.1	19.4	100.6
-CCR-8 Spot 77	717	62552	4.3	13.4741	0.7	1.7794	1.5	0.1740	1.4	0.88	1033.9	12.9	1038.0	10.0	1046.5	14.8	1046.5	14.8	98.8
-CCR-8 Spot 105	35	5316	0.9	13.4529	1.5	1.8072	1.9	0.1764	1.2	0.62	1047.3	11.2	1048.0	12.2	1049.7	29.6	1049.7	29.6	99.8
-CCR-8 Spot 184	131	39494	3.7	13.4446	0.9	1.7708	1.4	0.1727	1.1	0.80	1027.2	10.8	1034.8	9.3	1050.9	17.5	1050.9	17.5	97.7
-CCR-8 Spot 299	90	13005	1.7	13.4164	0.9	1.8261	1.5	0.1778	1.2	0.80	1054.8	11.8	1054.9	10.0	1056.1	18.5	1056.1	18.5	100.0
-CCR-8 Spot 296	341	150675	1.5	13.3914	0.7	1.8406	1.6	0.1788	1.4	0.88	1060.7	13.4	1060.1	10.2	1058.9	14.9	1058.9	14.9	100.2
-CCR-8 Spot 162	24	3673	3.3	13.3558	1.5	1.9274	2.1	0.1868	1.5	0.70	1103.9	15.1	1090.7	14.2	1064.3	30.5	1064.3	30.5	103.7
-CCR-8 Spot 300	324	63341	1.4	13.3422	0.8	1.8405	1.4	0.1782	1.1	0.79	1067.0	10.5	1060.0	9.0	1066.3	16.8	1066.3	16.8	99.1
-CCR-8 Spot 225	75	5228502	1.0	13.2961	1.0	1.8111	1.6	0.1738	1.2	0.76	1032.8	11.3	1045.8	10.2	1073.3	20.5	1073.3	20.5	96.2
-CCR-8 Spot 210	169	39881	2.5	13.2843	0.8	1.8833	1.4	0.1813	1.1	0.81	1073.8	11.2	1075.2	9.3	1078.1	16.5	1078.1	16.5	99.6
-CCR-8 Spot 33	206	202368	0.8	13.2830	0.7	1.9055	1.4	0.1834	1.2	0.85	1085.4	12.0	1083.0	9.4	1078.3	15.0	1078.3	15.0	100.7
-CCR-8 Spot 208	474	67949	5.6	13.2829	0.6	1.8152	1.4	0.1747	1.2	0.80	1037.9	11.8	1051.0	9.0	1078.3	12.1	1078.3	12.1	96.3
-CCR-8 Spot 314	62	7351	1.3	13.2173	1.3	1.8572	1.7	0.1781	1.1	0.85	1056.6	10.6	1068.0	11.0	1085.1	25.4	1085.1	25.4	97.4
-CCR-8 Spot 272	288	34884	3.4	13.1920	0.7	1.8567	1.1	0.1777	0.8	0.73	1054.5	7.7	1065.8	7.2	1089.0	15.0	1089.0	15.0	96.8
-CCR-8 Spot 200	67	11581	1.3	13.1328	0.8	1.9244	1.4	0.1834	1.1	0.79	1085.4	10.6	1089.6	9.1	1098.0	16.8	1098.0	16.8	98.9
-CCR-8 Spot 151	74	31485	1.4	13.1163	0.9	1.9748	1.5	0.1879	1.1	0.78	1110.2	11.7	1107.0	10.0	1100.5	18.6	1100.5	18.6	100.9
-CCR-8 Spot 130	99	13940	2.6	13.0731	0.8	2.0183	1.3	0.1915	1.0	0.79	1129.2	10.8	1121.7	9.0	1107.1	16.1	1107.1	16.1	102.0
-CCR-8 Spot 213	774	90669	1.2	13.0464	0.8	1.8524	1.9	0.1754	1.7	0.91	1041.6	16.8	1064.3	12.6	1111.2	15.5	1111.2	15.5	93.7
-CCR-8 Spot 89	189	78989	3.4	13.0216	0.8	2.0370	1.2	0.1925	0.9	0.77	1134.7	9.8	1127.9	8.4	1115.0	15.7	1115.0	15.7	101.8
-CCR-8 Spot 149	38	107907	0.9	13.0012	1.4	1.7321	1.6	0.1634	0.9	0.54	975.6	8.0	1020.5	10.4	1118.2	27.2	1118.2	27.2	87.3
-CCR-8 Spot 6	231	199301	2.0	12.9811	0.6	1.9960	1.3	0.1880	1.1	0.87	1110.5	11.3	1114.2	8.6	1121.2	12.3	1121.2	12.3	99.0
-CCR-8 Spot 97	131	16655	1.4	12.9637	0.9	2.0548	1.5	0.1933	1.2	0.79	1139.1	12.2	1133.9	10.1	1123.9	17.9	1123.9	17.9	101.4
-CCR-8 Spot 147	105	48851	2.6	12.9621	0.8	2.1131	1.2	0.1987	1.0	0.78	1168.6	10.2	1153.1	8.4	1124.2	15.3	1124.2	15.3	103.9
-CCR-8 Spot 41	273	35175	2.6	12.9583	0.7	2.0898	1.4	0.1946	1.3	0.89	1146.3	13.2	1138.9	9.7	1124.7	13.1	1124.7	13.1	101.9
-CCR-8 Spot 283	740	97802	3.1	12.9562	0.7	2.0333	1.7	0.1912	1.5	0.90	1127.6	15.7	1126.7	11.4	1125.0	14.2	1125.0	14.2	100.2
-CCR-8 Spot 124	172	179703	4.0	12.9232	0.8	2.0124	1.3	0.1887	1.1	0.83	1114.3	11.3	1119.7	9.1	1130.2	15.0	1130.2	15.0	98.6
-CCR-8 Spot 100	103	17721	3.4	12.9227	0.9	2.0418	1.3	0.1915	1.0	0.74	1129.2	10.3	1129.6	9.1	1130.2	17.9	1130.2	17.9	99.9
-CCR-8 Spot 160	780	81543	3.9	12.8908	0.7	2.1367	1.6	0.1999	1.5	0.91	1174.5	15.6	1160.7	11.0	1135.2	13.2	1135.2	13.2	103.5
-CCR-8 Spot 29	156	197988	2.9	12.8828	0.8	2.0783	1.4	0.1943	1.1	0.80	1144.5	11.6	1141.7	9.5	1136.4	16.7	1136.4	16.7	100.7
-CCR-8 Spot 232	367	50380	2.2	12.7442	0.7	2.1504	1.0	0.1988	0.7	0.70	1189.1	7.6	1165.2	7.1	1157.8	14.6	1157.8	14.6	101.0
-CCR-8 Spot 221	44	34907	1.2	12.7267	1.0	2.1073	1.5	0.1946	1.1	0.74	1145.2	11							

-CCR-8 Spot 264	210	50426	4.4	11.3872	0.7	2.9190	1.4	0.2412	1.2	0.86	1392.8	15.2	1386.8	10.6	1377.6	13.6	1377.6	13.6	101.1
-CCR-8 Spot 287	389	740364	2.5	11.2159	0.6	3.1289	1.2	0.2548	1.1	0.87	1462.3	14.3	1439.8	9.6	1406.7	11.6	1406.7	11.6	104.0
-CCR-8 Spot 102	262	362717	2.2	11.1591	0.8	2.9178	1.3	0.2363	1.0	0.79	1367.2	12.6	1386.5	9.8	1416.4	15.3	1416.4	15.3	96.5
-CCR-8 Spot 120	145	46754	1.6	11.1326	0.9	3.1758	1.4	0.2565	1.0	0.75	1472.1	13.8	1451.3	10.7	1421.0	17.5	1421.0	17.5	103.8
-CCR-8 Spot 57	161	47674	1.8	11.0662	1.0	3.2195	1.4	0.2585	1.0	0.72	1482.2	13.5	1461.9	11.0	1432.4	18.9	1432.4	18.9	103.5
-CCR-8 Spot 229	170	44362	3.6	11.0627	0.9	3.0784	1.2	0.2471	0.8	0.67	1423.5	9.9	1427.3	8.8	1433.0	16.2	1433.0	16.2	99.3
-CCR-8 Spot 205	67	17189	3.5	11.0533	0.9	3.0703	1.4	0.2462	1.1	0.78	1418.1	14.0	1425.3	10.9	1434.6	17.1	1434.6	17.1	98.9
-CCR-8 Spot 131	126	66209	2.1	11.0380	0.9	3.0981	1.4	0.2481	1.1	0.78	1428.8	13.9	1432.2	10.6	1437.3	16.4	1437.3	16.4	99.4
-CCR-8 Spot 4	59	14772	1.3	11.0368	1.0	3.0728	1.6	0.2461	1.2	0.76	1418.2	15.1	1425.9	12.0	1437.5	19.3	1437.5	19.3	98.7
-CCR-8 Spot 108	89	58578	2.4	11.0122	0.9	3.0440	1.5	0.2432	1.2	0.82	1403.4	15.7	1418.7	11.7	1441.7	16.8	1441.7	16.8	97.3
-CCR-8 Spot 96	146	59370	3.1	10.9999	0.6	3.1109	1.0	0.2483	0.8	0.79	1429.7	10.8	1435.4	8.1	1443.9	12.2	1443.9	12.2	99.0
-CCR-8 Spot 246	97	124109	3.7	10.9994	0.7	3.1056	1.1	0.2479	0.8	0.76	1427.4	10.7	1434.1	8.5	1444.0	13.7	1444.0	13.7	99.9
-CCR-8 Spot 169	300	52582	3.2	10.9971	0.8	3.0248	1.1	0.2414	0.8	0.73	1393.7	10.0	1413.9	8.4	1444.4	14.4	1444.4	14.4	95.5
-CCR-8 Spot 21	314	47445	1.9	10.9907	0.7	2.9641	1.5	0.2364	1.3	0.89	1367.8	16.4	1398.5	11.4	1445.5	13.2	1445.5	13.2	94.6
-CCR-8 Spot 290	122	97450	4.6	10.9892	1.0	3.0706	1.7	0.2448	1.4	0.81	1411.8	17.3	1425.4	12.9	1446.7	19.0	1446.7	19.0	97.7
-CCR-8 Spot 70	152	27280	2.9	10.9605	0.7	3.1895	1.3	0.2544	1.0	0.81	1461.0	13.3	1456.8	9.7	1450.7	14.1	1450.7	14.1	100.7
-CCR-8 Spot 200	200	107407	1.7	10.9378	0.8	3.0353	1.4	0.2409	1.1	0.81	1391.3	14.4	1416.5	10.8	1454.6	15.7	1454.6	15.7	95.6
-CCR-8 Spot 23	142	35446	2.0	10.9342	0.8	3.0562	1.3	0.2425	1.0	0.76	1399.5	12.5	1421.8	10.0	1455.3	16.1	1455.3	16.1	96.2
-CCR-8 Spot 310	134	455910	1.8	10.9276	0.7	3.1187	1.3	0.2474	1.1	0.82	1424.8	13.8	1437.6	10.0	1456.4	14.0	1456.4	14.0	97.8
-CCR-8 Spot 84	106	19678	1.8	10.9018	0.8	3.2107	1.2	0.2540	0.9	0.76	1458.9	11.7	1459.8	9.2	1460.9	14.7	1460.9	14.7	99.9
-CCR-8 Spot 152	150	74756	1.4	10.8767	0.7	3.1788	1.1	0.2510	0.9	0.81	1443.4	11.7	1452.3	8.6	1465.3	12.5	1465.3	12.5	98.5
-CCR-8 Spot 36	121	96682	1.0	10.8761	0.8	3.0988	1.5	0.2436	1.3	0.85	1405.4	18.2	1429.4	11.5	1465.4	14.8	1465.4	14.8	95.9
-CCR-8 Spot 248	246	80392	3.0	10.7942	0.7	3.3520	1.2	0.2625	1.0	0.82	1502.8	13.5	1493.2	9.5	1479.7	13.0	1479.7	13.0	101.6
-CCR-8 Spot 223	168	352918	1.5	10.7830	0.6	3.3360	1.1	0.2605	0.9	0.82	1492.5	12.5	1489.5	8.9	1485.2	12.2	1485.2	12.2	100.5
-CCR-8 Spot 192	157	89087	2.3	10.7479	0.9	3.4248	1.3	0.2671	0.9	0.72	1526.0	12.6	1510.1	10.1	1487.9	16.8	1487.9	16.8	102.6
-CCR-8 Spot 139	247	44757	1.6	10.7191	0.7	3.2746	1.2	0.2547	1.0	0.81	1462.6	13.3	1475.0	9.7	1493.0	13.8	1493.0	13.8	99.0
-CCR-8 Spot 171	162	607752	1.6	10.7080	0.8	3.3404	1.1	0.2565	0.8	0.70	1487.5	10.8	1490.5	8.8	1494.9	15.2	1494.9	15.2	99.5
-CCR-8 Spot 187	80	47323	0.9	10.5620	0.9	3.3151	1.7	0.2541	1.4	0.85	1456.4	18.5	1484.6	13.0	1520.9	16.5	1520.9	16.5	96.0
-CCR-8 Spot 289	468	52564165	2.9	10.5563	1.0	3.4171	1.7	0.2617	1.4	0.83	1498.6	19.2	1508.3	13.5	1522.0	18.0	1522.0	18.0	95.5
-CCR-8 Spot 142	191	32549	1.7	10.5086	0.7	3.5989	1.3	0.2744	1.0	0.82	1563.1	14.5	1549.3	10.1	1530.4	13.9	1530.4	13.9	102.1
-CCR-8 Spot 202	117	153856	1.4	10.4890	0.7	3.6614	1.5	0.2787	1.3	0.89	1584.6	18.6	1563.0	11.9	1533.9	13.0	1533.9	13.0	103.3
-CCR-8 Spot 39	345	58244	2.7	10.0430	0.7	3.8242	1.3	0.2880	1.1	0.85	1621.3	16.4	1618.7	10.9	1615.3	13.3	1615.3	13.3	100.4
-CCR-8 Spot 233	45	20564	1.3	10.0387	1.0	3.8424	1.6	0.2789	1.2	0.76	1590.7	17.1	1601.7	12.9	1616.1	19.3	1616.1	19.3	98.4
-CCR-8 Spot 176	426	7016334	3.4	9.9721	0.7	3.9892	1.6	0.2886	1.4	0.89	1634.7	20.4	1632.0	12.9	1628.5	13.5	1628.5	13.5	100.4
-CCR-8 Spot 140	509	313569	3.4	9.9673	0.6	4.0354	1.4	0.2918	1.2	0.89	1650.7	17.7	1641.4	11.1	1629.3	11.7	1629.3	11.7	101.3
-CCR-8 Spot 44	128	55794	2.1	9.9614	0.7	3.9624	1.3	0.2864	1.1	0.83	1623.5	15.9	1628.5	10.8	1630.4	13.6	1630.4	13.6	99.6
-CCR-8 Spot 153	479	1532274	4.8	9.9382	0.7	3.8636	1.6	0.2786	1.4	0.89	1584.3	19.6	1606.1	12.7	1634.8	13.5	1634.8	13.5	99.9
-CCR-8 Spot 15	97	64242	2.2	9.9370	0.8	4.0222	1.4	0.2900	1.1	0.81	1641.6	16.4	1638.7	11.4	1635.0	15.3	1635.0	15.3	100.4
-CCR-8 Spot 104	114	18739	1.4	9.9357	0.8	3.8554	1.2	0.2852	1.0	0.79	1617.2	13.8	1625.1	10.0	1635.2	14.1	1635.2	14.1	98.9
-CCR-8 Spot 135	339	206896	0.8	9.9229	0.8	4.0779	1.4	0.2936	1.2	0.84	1659.5	17.1	1649.9	11.4	1637.6	14.2	1637.6	14.2	101.3
-CCR-8 Spot 58	146	53605	1.8	9.9223	0.8	3.9605	1.3	0.2851	1.0	0.78	1617.2	14.0	1628.1	10.2	1637.8	14.6	1637.8	14.6	98.7
-CCR-8 Spot 138	165	143048	1.4	9.8990	0.7	4.0288	1.2	0.2892	0.9	0.79	1637.7	13.7	1639.6	9.7	1642.1	13.5	1642.1	13.5	99.7
-CCR-8 Spot 85	77	50151	1.3	9.8924	1.0	4.0528	1.5	0.2909	1.1	0.74	1646.0	15.6	1644.9	11.9	1643.4	18.3	1643.4	18.3	100.2
-CCR-8 Spot 32	108	109851	2.0	9.8821	0.8	4.0205	1.4	0.2883	1.1	0.80	1632.9	16.1	1638.4	11.3	1645.3	15.5	1645.3	15.5	99.3
-CCR-8 Spot 208	122	47762	2.5	9.8423	0.9	3.9831	1.3	0.2830	0.9	0.74	1608.6	13.3	1628.7	10.3	1652.8	15.9	1652.8	15.9	97.2
-CCR-8 Spot 133	231	591730	2.4	9.8345	0.8	4.1572	1.4	0.2968	1.2	0.83	1674.7	17.8	1685.6	11.8	1654.2	14.7	1654.2	14.7	101.2
-CCR-8 Spot 189	227	18770	2.0	9.7748	1.1	3.6510	1.4	0.2589	0.9	0.63	1494.5	11.8	1560.7	11.2	1665.5	20.1	1665.5	20.1	99.1
-CCR-8 Spot 155	240	40442	1.6	9.7639	0.7	4.1221	1.4	0.2920	1.2	0.86	1651.7	17.2	1658.7	11.3	1667.6	13.1	1667.6	13.1	98.0
-CCR-8 Spot 159	262	123521	3.3	9.7594	0.7	4.2527	1.2	0.3011	0.9	0.80	1697.0	13.9	1684.3	9.6	1668.4	12.9	1668.4	12.9	101.7
-CCR-8 Spot 14	140	38575	1.0	9.7447	0.8	4.1442	1.3	0.2930	1.1	0.81	1656.6	15.4	1663.1	10.7	1671.2	14.4	1671.2	14.4	99.1
-CCR-8 Spot 228	103	201329	1.7	9.7394	0.7	4.0922	1.4	0.2892	1.2	0.86	1637.5	16.9	1652.8	11.1	1672.2	12.8	1672.2	12.8	97.9
-CCR-8 Spot 217	94	22952	1.7	9.7353	0.7	4.1379	1.3	0.2903	1.1	0.85	1653.0	15.9	1661.8	10.6	1673.0	12.7	1673.0	12.7	98.8
-CCR-8 Spot 292	318	93980	2.0	9.6898	0.6	4.1866	1.4	0.2946	1.2	0.91	1664.3	18.1	1672.0	11.2	1681.7	10.5	1681.7	10.5	99.0
-CCR-8 Spot 269	99	414728	2.3	9.6896	0.8	4.2515	1.5	0.2989	1.2	0.84	1685.9	18.3	1684.0	12.0	1681.7	14.5	1681.7	14.5	100.2
-CCR-8 Spot 150	229	327348	1.8	9.6416	0.6	4.2997	1.1	0.3008	0.9	0.85	1685.3	14.0	1683.3	9.1	1680.9	10.6	1680.9	10.6	100.3
-CCR-8 Spot 279	128	53623	1.9	9.6394	0.6	4.3084	1.2	0.3013	1.0	0.84	1697.9	14.8	1695.0	9.8	1691.3	11.9	1691.3	11.9	100.4
-CCR-8 Spot 219	140	45117	1.9	9.6303	0.8	4.3528	1.2	0.3042	0.9	0.73	1711.9	12.9	1703.4	9.7	1693.0	14.8	1693.0	14.8	101.1
-CCR-8 Spot 78	136	447825	1.6	9.6182	0.7	4.3388	1.4	0.3028	1.1	0.84	1705.2	17.2	1700.8	11.2	1695.3	13.6	1695.3	13.6	100.8
-CCR-8 Spot 255	175	101918	3.1	9.6118	0.9	4.3941	1.4	0.3065	1.1	0.79	1723.2	17.1	1711.2	11.8	1696.6	15.9	1696.6	15.9	101.6
-CCR-8 Spot 288	332	57458	7.7	9.6014	0.6	4.3484	1.3	0.3029	1.1	0.89	1705.9	17.1	1702.6	10.6	1698.6	11.0	1698.6	11.0	100.4
-CCR-8 Spot 128	85	82330	2.2	9.6002	0.8	4.1867	1.3	0.2916	1.0	0.79	1648.7	14.6	1671.4	10.4	1698.8	14.3	1698.8	14.3	97.1
-CCR-8 Spot 307	341	786943	3.0	9.5947	0.8	4.3072	1.3	0.2999	1.1	0.81	1690.6	16.1	1694.7	11.0	1699.9	14.4			

-CCR-8 Spot 54	251	40629	2.5	9.3794	0.9	4.6527	1.4	0.3098	1.1	0.78	1739.9	16.8	1740.6	11.7	1741.6	16.2	1741.6	16.2	99.9
-CCR-8 Spot 80	143	103823	2.6	9.3687	0.9	4.6141	1.4	0.3137	1.1	0.79	1758.7	16.9	1751.8	11.6	1743.8	15.8	1743.6	15.8	100.9
-CCR-8 Spot 76	269	183497	2.3	9.3676	0.7	4.2615	1.3	0.2997	1.1	0.83	1639.8	15.5	1686.0	10.8	1743.8	13.2	1743.8	13.2	94.0
-CCR-8 Spot 49	274	39931	2.2	9.3624	0.8	4.5858	1.4	0.3115	1.2	0.89	1748.2	18.8	1746.7	11.5	1744.9	11.3	1744.9	11.3	100.2
-CCR-8 Spot 245	254	54885	1.6	9.3486	0.9	4.6394	1.4	0.3146	1.0	0.75	1763.5	15.8	1756.4	11.5	1748.0	16.7	1748.0	16.7	100.9
-CCR-8 Spot 115	241	40663	1.6	9.3395	0.7	4.6664	1.4	0.3162	1.2	0.86	1771.2	18.5	1761.2	11.8	1749.4	12.9	1749.4	12.9	101.3
-CCR-8 Spot 311	14	26976	5.8	9.2846	1.3	4.6461	1.6	0.3130	0.9	0.60	1755.4	14.6	1757.6	13.2	1760.1	23.1	1760.1	23.1	99.7
-CCR-8 Spot 59	200	60408	2.4	9.2861	0.7	4.7813	1.2	0.3215	1.0	0.83	1795.9	15.3	1781.6	9.9	1763.8	11.9	1763.8	11.9	101.9
-CCR-8 Spot 79	257	68148	1.4	9.2437	0.8	4.6485	1.3	0.3118	1.0	0.81	1749.4	16.0	1758.0	10.7	1768.2	13.7	1768.2	13.7	98.9
-CCR-8 Spot 240	364	146852	2.3	9.2175	0.8	4.7061	2.1	0.3147	2.0	0.93	1764.0	30.1	1768.3	17.5	1773.4	13.8	1773.4	13.8	99.5
-CCR-8 Spot 258	272	122749	3.9	9.1913	0.7	4.7724	1.1	0.3183	0.9	0.78	1781.3	13.3	1780.0	9.3	1778.6	12.7	1778.6	12.7	100.2
-CCR-8 Spot 185	216	161918	1.5	9.1888	1.0	4.3711	1.5	0.2914	1.0	0.70	1648.7	14.9	1706.9	12.0	1779.1	18.8	1779.1	18.8	92.7
-CCR-8 Spot 180	361	1646494	2.4	9.1860	0.7	4.5057	1.8	0.3003	1.6	0.92	1692.9	24.1	1732.0	14.6	1779.6	12.7	1779.6	12.7	95.1
-CCR-8 Spot 137	282	212339	2.1	9.1836	0.8	4.7758	1.3	0.3182	1.0	0.80	1781.1	15.7	1780.7	10.8	1780.1	14.0	1780.1	14.0	100.1
-CCR-8 Spot 116	383	112760	3.7	9.1718	0.8	4.8120	1.3	0.3202	1.1	0.90	1790.9	16.9	1787.0	11.3	1782.5	14.6	1782.5	14.6	100.5
-CCR-8 Spot 34	301	58015	4.0	9.1597	0.8	4.8305	1.2	0.3210	1.0	0.85	1794.8	16.2	1790.2	10.3	1784.9	11.8	1784.9	11.8	100.6
-CCR-8 Spot 291	160	10565	0.4	9.1548	0.9	4.2743	1.5	0.2639	1.2	0.80	1611.1	17.0	1688.4	12.3	1785.8	16.5	1785.8	16.5	90.2
-CCR-8 Spot 88	187	110953	3.8	9.1547	0.8	4.7805	1.1	0.3175	0.9	0.84	1777.7	14.2	1781.5	9.1	1785.9	10.7	1785.9	10.7	99.5
-CCR-8 Spot 249	83	11463	8.1	9.1482	0.8	4.8953	1.4	0.3249	1.2	0.84	1813.8	18.9	1801.5	12.0	1787.2	14.2	1787.2	14.2	101.5
-CCR-8 Spot 82	177	199849	2.8	9.1442	0.9	4.6654	1.4	0.3095	1.0	0.77	1738.5	15.8	1761.0	11.3	1787.9	15.8	1787.9	15.8	97.2
-CCR-8 Spot 281	188	252391	1.6	9.1433	0.7	4.6282	1.2	0.3069	0.9	0.81	1725.5	14.2	1754.0	9.6	1788.1	12.2	1788.1	12.2	96.5
-CCR-8 Spot 58	124	48409	3.8	9.1127	0.9	4.2057	1.4	0.2781	1.1	0.76	1581.7	14.8	1675.1	11.4	1794.2	16.4	1794.2	16.4	88.2
-CCR-8 Spot 261	77	10829	0.9	9.0996	1.0	4.2825	1.5	0.2828	1.1	0.73	1605.2	15.9	1690.0	12.6	1796.9	18.9	1796.9	18.9	89.3
-CCR-8 Spot 73	285	1166800	5.1	9.0531	0.8	4.6991	1.3	0.3087	1.0	0.78	1734.2	14.8	1767.1	10.5	1806.2	14.4	1806.2	14.4	95.0
-CCR-8 Spot 0	125	62491	2.5	9.0492	0.9	4.8913	1.7	0.3212	1.4	0.86	1795.4	22.6	1800.8	14.1	1807.0	15.7	1807.0	15.7	99.4
-CCR-8 Spot 145	251	105218	2.0	9.0363	0.8	5.0198	1.4	0.3291	1.1	0.79	1834.1	17.6	1822.7	11.8	1809.5	15.3	1809.5	15.3	101.4
-CCR-8 Spot 24	236	162487	4.4	8.9797	0.8	4.8174	1.6	0.3139	1.4	0.87	1759.8	21.4	1787.9	13.5	1821.0	14.5	1821.0	14.5	96.6
-CCR-8 Spot 111	54	27033	1.3	8.9779	0.9	4.9877	1.5	0.3249	1.3	0.82	1813.7	19.8	1817.2	12.9	1821.3	15.8	1821.3	15.8	99.6
-CCR-8 Spot 163	594	109305	2.6	8.9760	0.9	4.2894	2.1	0.2793	1.9	0.90	1587.8	26.3	1691.1	17.1	1821.7	16.7	1821.7	16.7	97.2
-CCR-8 Spot 17	190	47635	1.4	8.9882	0.7	5.0551	1.2	0.3289	1.0	0.83	1833.3	16.1	1828.6	10.3	1823.3	12.3	1823.3	12.3	100.5
-CCR-8 Spot 11	43	21089	1.7	8.9568	1.0	5.1148	1.7	0.3324	1.3	0.78	1850.0	21.1	1838.6	14.3	1825.6	19.0	1825.6	19.0	101.3
-CCR-8 Spot 276	157	30982	2.9	8.9432	0.7	5.1288	1.3	0.3328	1.0	0.82	1852.0	16.5	1840.9	10.7	1828.4	13.2	1828.4	13.2	101.3
-CCR-8 Spot 266	293	180212	3.2	8.9274	0.7	5.0882	1.2	0.3297	1.0	0.82	1836.7	15.3	1834.3	9.9	1831.5	12.2	1831.5	12.2	100.3
-CCR-8 Spot 2	111	45233	1.1	8.8803	0.9	5.1056	1.5	0.3290	1.1	0.77	1833.4	18.3	1837.0	12.6	1841.1	17.0	1841.1	17.0	99.6
-CCR-8 Spot 40	75	153048	1.0	8.8101	0.9	5.1601	1.4	0.3299	1.1	0.76	1837.7	17.4	1846.1	12.2	1855.5	16.8	1855.5	16.8	99.0
-CCR-8 Spot 28	118	108018	2.3	8.7897	0.9	5.1873	1.2	0.3301	0.8	0.89	1838.8	13.3	1850.5	10.3	1863.8	15.9	1863.8	15.9	98.7
-CCR-8 Spot 302	149	107925	2.8	8.6890	0.7	5.5087	1.1	0.3473	0.8	0.75	1921.7	13.5	1902.0	9.3	1880.5	12.8	1880.5	12.8	102.2
-CCR-8 Spot 250	274	78935	2.3	8.6888	0.8	5.4783	1.3	0.3463	1.1	0.82	1911.9	18.2	1896.9	11.5	1880.5	13.7	1880.5	13.7	101.7
-CCR-8 Spot 161	296	1322635	1.6	8.6859	0.8	5.4512	1.2	0.3436	0.9	0.75	1903.7	14.4	1892.9	10.1	1881.1	14.1	1881.1	14.1	101.2
-CCR-8 Spot 207	274	428383	2.6	8.6370	0.8	5.4162	1.3	0.3364	1.0	0.79	1883.9	16.3	1887.4	10.8	1891.3	13.7	1891.3	13.7	99.6
-CCR-8 Spot 98	245	924884	2.5	8.5713	0.7	5.5708	1.1	0.3465	0.9	0.79	1917.7	14.3	1911.6	9.4	1905.0	12.2	1905.0	12.2	100.7
-CCR-8 Spot 254	314	739526	2.1	8.5290	0.7	5.6327	1.2	0.3486	1.0	0.81	1927.8	16.7	1921.1	10.7	1913.9	13.2	1913.9	13.2	100.7
-CCR-8 Spot 53	35	9632	2.7	8.5047	1.1	5.4468	1.5	0.3363	1.1	0.72	1868.9	17.8	1862.7	13.0	1919.0	19.0	1919.0	19.0	97.4
-CCR-8 Spot 238	210	118527	2.5	8.3826	0.7	5.8330	1.4	0.3426	1.2	0.85	1899.2	19.8	1921.2	12.1	1944.9	13.1	1944.9	13.1	97.7
-CCR-8 Spot 247	385	91017	2.9	8.3794	0.8	5.8338	1.9	0.3425	1.7	0.89	1898.9	27.5	1921.3	16.2	1945.6	15.0	1945.6	15.0	97.6
-CCR-8 Spot 173	380	193578	2.3	8.2793	0.8	5.8710	1.8	0.3407	1.6	0.90	1889.9	27.0	1927.0	15.8	1967.0	14.2	1967.0	14.2	96.1
-CCR-8 Spot 263	317	56819	2.0	8.1672	0.7	6.1205	1.1	0.3636	0.9	0.78	1999.2	14.9	1963.2	9.8	1987.0	12.5	1987.0	12.5	100.6
-CCR-8 Spot 69	242	79035	2.1	8.1721	0.8	6.3109	1.4	0.3742	1.1	0.80	2049.2	19.7	2020.0	12.3	1990.2	15.1	1990.2	15.1	103.0
-CCR-8 Spot 186	302	183283	1.1	7.8771	0.9	6.8368	1.3	0.3793	1.1	0.86	2073.1	19.4	2064.3	11.2	2055.4	11.5	2055.4	11.5	100.9
-CCR-8 Spot 119	94	23867	0.7	7.3265	0.9	6.3533	1.5	0.3377	1.2	0.79	1875.8	19.1	2025.8	13.0	2182.4	15.9	2182.4	15.9	86.0
-CCR-8 Spot 295	104	253078	1.2	6.8960	0.8	6.8153	1.5	0.4288	1.2	0.83	2300.1	23.2	2298.2	13.2	2296.4	14.1	2296.4	14.1	100.2
-CCR-8 Spot 71	390	335088	3.9	6.5541	0.7	8.8837	1.7	0.4130	1.5	0.92	2228.4	29.1	2305.4	15.4	2374.2	11.6	2374.2	11.6	93.9
-CCR-8 Spot 101	427	110386	2.5	6.4495	0.8	8.8968	1.7	0.4163	1.5	0.88	2243.8	28.1	2327.5	15.3	2401.6	13.4	2401.6	13.4	93.4
-CCR-8 Spot 146	104	36833	0.7	6.3794	0.9	7.9861	1.3	0.3697	0.9	0.71	2027.8	15.8	2229.5	11.6	2420.2	15.5	2420.2	15.5	83.8
-CCR-8 Spot 107	78	13152	0.8	6.2713	0.8	8.9118	1.4	0.4465	1.2	0.84	2379.5	23.3	2417.3	12.9	2449.2	12.9	2449.2	12.9	97.2
-CCR-8 Spot 27	379	59446	1.7	6.2624	0.7	9.5138	2.4	0.4323	2.3	0.96	2316.1	45.0	2388.9	22.2	2451.6	11.4	2451.6	11.4	94.5
-CCR-8 Spot 3	33	12003	1.2	6.2351	0.9	10.0037	1.5	0.4526	1.2	0.80	2406.7	23.5	2435.1	13.5	2459.0	14.8	2459.0	14.8	97.9
-CCR-8 Spot 203	190	52921	0.8	6.2335	0.8	9.9430	1.4	0.4497	1.2	0.82	2394.0	23.8	2429.5	13.4	2459.4	14.2	2459.4	14.2	97.3
-CCR-8 Spot 52	67	103737	1.0	6.1807	0.8	10.4225	1.4	0.4674	1.1	0.80	2472.2	22.8	2473.0	12.8	2473.7	14.1	2473.7	14.1	99.9
-CCR-8 Spot 83	40	147491	1.1	6.1680	0.8	10.0092	2.3	0.4480	2.2	0.93	2388.2	43.1	2435.6	21.4	2477.2	14.0	2477.2	14.0	96.3
-CCR-8 Spot 47	192	55879	2.5	6.1480	0.8	10.7768	1.3	0.4907	1.0	0.79	2530.5	21.7	2504.1	12.2	2482.7	13.7	2482.7	13.7	101.9
-CCR-8 Spot 25	90	27507	1.9	6.0286	0.7	10.7385	1.2	0.4897	1.0	0.82	2482.4	20.5	2500.8	11.2	2515.7	11.5	2515.7	11.5	98.7

-18M-T-21 Spot 42	149	6132	2.2	13.2596	0.6	1.9210	1.1	0.1848	0.9	0.84	1063.2	9.1	1088.4	7.2	1078.8	11.7	1078.8	11.7	101.3
-18M-T-21 Spot 173	405	31803	2.2	13.2363	0.8	1.8804	1.3	0.1787	1.0	0.79	1059.7	10.0	1087.1	8.5	1082.3	15.8	1082.3	15.8	97.9
-18M-T-21 Spot 271	291	51634	3.0	13.2203	0.5	1.8846	1.1	0.1808	0.9	0.86	1071.2	9.0	1075.7	7.1	1084.7	11.0	1084.7	11.0	98.8
-18M-T-21 Spot 220	123	30135	1.5	13.1967	0.7	1.8572	1.2	0.1778	1.0	0.80	1055.1	8.4	1066.0	8.0	1088.3	14.4	1088.3	14.4	97.0
-18M-T-21 Spot 56	111	34723	1.4	13.1604	1.0	1.8131	1.4	0.1731	1.0	0.73	1029.4	9.9	1050.2	9.3	1093.8	19.4	1093.8	19.4	94.1
-18M-T-21 Spot 211	858	400827	4.8	13.1429	0.4	1.8188	0.9	0.1734	0.8	0.89	1031.0	7.8	1052.2	8.0	1086.5	8.2	1086.5	8.2	94.0
-18M-T-21 Spot 49	644	78534	2.8	13.1296	0.6	1.8688	1.3	0.1797	1.1	0.87	1065.6	10.9	1076.5	8.5	1085.5	12.6	1085.5	12.6	97.0
-18M-T-21 Spot 296	312	56597	6.4	13.0950	0.7	1.8490	1.1	0.1757	0.9	0.80	1043.3	8.7	1063.1	7.4	1103.8	13.5	1103.8	13.5	94.5
-18M-T-21 Spot 122	198	23420	1.4	13.0826	0.6	1.9123	1.0	0.1815	0.8	0.79	1075.3	7.8	1085.4	6.5	1105.7	12.1	1105.7	12.1	97.3
-18M-T-21 Spot 106	292	12720	1.6	13.0756	0.5	1.9949	1.0	0.1893	0.9	0.87	1117.4	8.8	1113.8	6.6	1106.7	9.7	1106.7	9.7	101.0
-18M-T-21 Spot 158	456	91893	1.6	13.0681	0.6	1.8940	1.3	0.1796	1.1	0.86	1064.7	10.8	1079.0	8.3	1107.9	12.6	1107.9	12.6	96.1
-18M-T-21 Spot 311	1129	2152325	6.8	13.0369	0.5	2.0149	0.9	0.1906	0.7	0.79	1124.6	7.1	1120.5	5.9	1112.6	10.7	1112.6	10.7	101.1
-18M-T-21 Spot 86	304	19416	2.8	13.0091	0.6	2.0529	1.1	0.1938	0.9	0.82	1141.8	9.1	1133.3	7.2	1117.0	12.1	1117.0	12.1	102.2
-18M-T-21 Spot 225	890	183396	3.9	12.9862	0.4	2.0530	1.0	0.1934	0.9	0.91	1140.0	9.8	1133.3	7.1	1120.5	8.7	1120.5	8.7	101.7
-18M-T-21 Spot 35	267	9871857	1.5	12.9584	0.7	2.0684	1.0	0.1943	0.8	0.75	1144.6	8.2	1137.8	7.1	1124.7	13.6	1124.7	13.6	101.8
-18M-T-21 Spot 146	313	26185	1.7	12.9490	0.7	1.9496	1.2	0.1832	0.9	0.80	1064.3	8.3	1088.3	7.8	1126.2	13.7	1126.2	13.7	96.3
-18M-T-21 Spot 232	1971	564420	4.6	12.9467	0.7	1.8381	1.1	0.1727	0.9	0.78	1026.8	8.1	1059.2	7.2	1126.5	13.5	1126.5	13.5	91.1
-18M-T-21 Spot 262	125	18274	1.0	12.9157	0.8	2.0259	1.2	0.1899	0.9	0.76	1120.6	8.1	1124.3	7.9	1131.3	15.0	1131.3	15.0	99.1
-18M-T-21 Spot 263	111	78622	3.0	12.9133	0.8	1.8705	1.2	0.1846	0.9	0.73	1092.2	9.0	1105.5	8.2	1131.6	16.6	1131.6	16.6	96.5
-18M-T-21 Spot 73	921	107182	4.1	12.8894	0.6	2.0780	1.1	0.1942	0.9	0.84	1143.8	9.6	1140.9	7.5	1135.4	12.0	1135.4	12.0	100.7
-18M-T-21 Spot 109	169	132620	1.9	12.8885	0.7	2.0431	1.3	0.1911	1.1	0.83	1127.1	11.5	1130.0	9.1	1135.5	14.7	1135.5	14.7	99.3
-18M-T-21 Spot 44	719	118373	3.0	12.8717	0.5	2.0191	1.2	0.1886	1.0	0.89	1113.6	10.8	1121.9	7.8	1138.1	10.4	1138.1	10.4	97.8
-18M-T-21 Spot 179	75	19312	1.0	12.8410	0.8	1.9920	1.2	0.1856	0.9	0.75	1097.5	9.2	1112.8	8.2	1142.9	16.0	1142.9	16.0	96.0
-18M-T-21 Spot 168	129	11355	2.6	12.8198	0.7	2.0459	1.0	0.1903	0.7	0.69	1123.1	7.0	1130.9	6.7	1146.1	14.2	1146.1	14.2	98.0
-18M-T-21 Spot 237	52	285925	1.9	12.8197	1.2	1.8256	1.5	0.1698	0.8	0.53	1011.1	7.2	1054.7	9.5	1146.1	24.5	1146.1	24.5	88.2
-18M-T-21 Spot 141	274	38946	2.0	12.8191	0.6	2.0436	1.3	0.1901	1.1	0.89	1121.8	11.8	1130.2	8.6	1146.2	11.6	1146.2	11.6	97.9
-18M-T-21 Spot 196	27	2901	3.1	12.7750	1.8	2.0682	2.1	0.1943	1.4	0.66	1144.7	14.2	1147.6	14.2	1153.0	30.9	1153.0	30.9	99.3
-18M-T-21 Spot 31	99	13706	2.2	12.7641	0.8	2.0257	1.3	0.1876	1.1	0.80	1108.4	11.0	1124.2	9.2	1154.8	16.2	1154.8	16.2	96.0
-18M-T-21 Spot 182	301	55846	2.0	12.7582	0.6	2.1589	1.0	0.1997	0.8	0.78	1173.6	8.2	1167.3	6.9	1155.7	12.4	1155.7	12.4	101.6
-18M-T-21 Spot 253	55	8210	1.4	12.7318	1.0	1.9844	1.3	0.1833	0.9	0.86	1085.1	9.2	1110.2	9.1	1159.8	19.4	1159.8	19.4	93.6
-18M-T-21 Spot 26	259	79223	1.4	12.8156	0.6	2.1642	1.2	0.1981	1.1	0.88	1165.1	11.3	1169.6	8.4	1178.0	11.4	1178.0	11.4	98.9
-18M-T-21 Spot 184	90	19626	1.6	12.5750	0.8	2.1088	1.2	0.1822	0.9	0.74	1133.4	9.0	1151.0	8.0	1184.3	15.4	1184.3	15.4	95.7
-18M-T-21 Spot 125	469	89811	4.0	12.5691	0.6	2.1918	1.3	0.1989	1.1	0.88	1174.8	12.3	1178.4	9.0	1185.3	11.9	1185.3	11.9	99.1
-18M-T-21 Spot 33	1190	37252	4.0	12.5642	0.5	2.1653	1.1	0.1974	1.0	0.88	1161.3	10.4	1170.0	7.7	1186.0	10.4	1186.0	10.4	97.9
-18M-T-21 Spot 72	146	10405	1.9	12.4504	0.4	2.1997	1.1	0.1987	1.1	0.92	1168.4	11.3	1180.9	8.0	1204.0	8.6	1204.0	8.6	97.0
-18M-T-21 Spot 233	1917	129808	2.3	12.2536	0.7	2.0984	1.2	0.1866	1.0	0.81	1102.8	9.7	1148.3	8.1	1235.3	13.6	1235.3	13.6	89.3
-18M-T-21 Spot 188	249	871020	3.5	12.1549	0.5	2.3879	1.0	0.2106	0.9	0.88	1232.0	9.6	1239.0	6.9	1251.1	8.9	1251.1	8.9	96.5
-18M-T-21 Spot 138	574	57658	2.3	12.1457	0.6	2.4213	1.2	0.2134	1.0	0.87	1246.8	11.8	1249.0	8.6	1252.6	11.5	1252.6	11.5	99.5
-18M-T-21 Spot 11	283	39707	1.4	12.1410	0.6	2.3684	1.0	0.2086	0.8	0.81	1221.6	9.3	1233.1	7.3	1253.4	11.7	1253.4	11.7	97.5
-18M-T-21 Spot 16	379	45964	2.1	12.1104	0.5	2.4846	0.9	0.2183	0.8	0.83	1273.0	8.8	1267.5	6.6	1258.3	10.0	1258.3	10.0	101.2
-18M-T-21 Spot 10	123	8270	2.2	11.9983	0.7	2.7234	1.0	0.2331	0.7	0.73	1350.7	8.9	1334.8	7.3	1309.5	13.0	1309.5	13.0	103.1
-18M-T-21 Spot 288	145	30454	2.4	11.7408	0.6	2.6369	1.2	0.2246	1.0	0.86	1308.3	11.9	1311.0	8.6	1318.6	11.4	1318.6	11.4	99.1
-18M-T-21 Spot 139	298	30081	2.1	11.7281	0.6	2.9437	1.2	0.2250	1.0	0.84	1308.1	11.8	1312.9	8.7	1320.7	12.3	1320.7	12.3	99.0
-18M-T-21 Spot 135	286	74483	2.1	11.6837	0.6	2.8801	1.0	0.2272	0.8	0.83	1319.5	10.0	1323.0	7.5	1328.1	11.0	1328.1	11.0	99.4
-18M-T-21 Spot 102	193	43840	2.3	11.6023	0.6	2.8595	1.0	0.2236	0.8	0.80	1302.4	9.0	1317.3	7.0	1341.6	11.0	1341.6	11.0	97.1
-18M-T-21 Spot 75	209	19386	2.4	11.5542	0.7	2.5974	1.4	0.2176	1.2	0.87	1270.0	13.5	1299.9	9.9	1349.6	13.1	1349.6	13.1	94.1
-18M-T-21 Spot 32	112	38393	1.3	11.5397	0.8	2.6477	1.3	0.2217	1.1	0.79	1290.8	12.5	1314.0	9.9	1352.0	15.7	1352.0	15.7	95.5
-18M-T-21 Spot 93	576	91389	2.6	11.5337	0.5	2.7833	0.8	0.2329	0.7	0.79	1348.8	8.1	1351.1	6.3	1353.0	10.0	1353.0	10.0	99.8
-18M-T-21 Spot 15	260	23112	2.8	11.5191	0.4	2.8158	1.0	0.2363	0.8	0.88	1362.5	10.4	1359.8	7.2	1355.5	8.6	1355.5	8.6	100.8
-18M-T-21 Spot 217	318	34651	1.9	11.5178	0.6	2.7567	1.2	0.2304	1.0	0.87	1336.5	12.7	1343.9	9.0	1355.7	11.7	1355.7	11.7	98.6
-18M-T-21 Spot 14	40	4699	1.9	11.5155	1.7	2.7312	2.0	0.2282	1.0	0.82	1325.1	12.4	1337.0	14.7	1356.1	32.5	1356.1	32.5	97.7
-18M-T-21 Spot 147	390	142162	1.4	11.5072	0.6	2.7288	1.0	0.2277	0.8	0.79	1322.3	9.9	1335.8	7.7	1357.5	12.3	1357.5	12.3	97.4
-18M-T-21 Spot 6	207	36243	1.1	11.4983	0.5	2.7373	1.0	0.2284	0.9	0.86	1326.0	10.2	1338.7	7.4	1359.0	9.7	1359.0	9.7	97.6
-18M-T-21 Spot 199	179	29144	1.7	11.4660	0.7	2.7202	1.2	0.2263	1.0	0.82	1315.1	11.9	1334.0	9.1	1364.4	13.6	1364.4	13.6	96.4
-18M-T-21 Spot 62	424	308327	2.7	11.3037	0.6	2.9138	1.3	0.2390	1.2	0.91	1381.4	15.2	1385.5	10.2	1391.8	10.9	1391.8	10.9	99.3
-18M-T-21 Spot 172	1170	321213	2.1	11.2930	0.6	2.8876	1.1	0.2350	0.9	0.86	1360.5	11.3	1373.4	8.1	1393.6	10.7	1393.6	10.7	97.6
-18M-T-21 Spot 87	2275	486700	2.6	11.2777	0.5	2.5515	1.0	0.2088	0.9	0.88	1222.3	9.9	1286.9	7.3	1396.2	9.0	1396.2	9.0	87.5
-18M-T-21 Spot 134	322	35255	2.3	11.2486	0.6	2.8859	1.0	0.2355	0.8	0.79	1363.5	9.4	1378.2	7.2	1401.1	11.2	1401.1	11.2	97.3
-18M-T-21 Spot 155	181	17429	2.9	11.2371	0.5	3.0266	0.9	0.2468	0.8	0.82	1421.8	9.9	1414.4	7.2	1403.1	10.5	1403.1	10.5	101.3
-18M-T-21 Spot 247	784	71870	0.9	11.0387	0.6	3.0387	1.2	0.2432	1.0	0.86	1403.2	12.6	1416.9	8.9	1437.5	11.5	1437.5	11.5	97.6
-18M-T-21 Spot 131	197	13086	2.0	11.0104	0.6	3.1297	1.1	0.2500	1.0	0.85	1438.6	12.4	1440.0	8.6	1442.1	11.1	1442.1	11.1	99.8
-18M-T-																			

-18M-T-21 Spot 110	80	20378	1.6	9.8419	0.7	4.0658	1.1	0.2903	0.9	0.78	1643.2	12.5	1647.5	9.0	1652.9	12.7	1652.9	12.7	99.4
-18M-T-21 Spot 29	170	32744	1.7	9.7982	0.5	4.0505	1.0	0.2890	0.9	0.85	1631.4	12.9	1644.4	8.5	1661.1	10.1	1661.1	10.1	98.2
-18M-T-21 Spot 144	149	69431	1.3	9.7935	0.6	4.0226	1.0	0.2858	0.8	0.81	1620.7	12.1	1638.8	8.5	1662.0	11.2	1662.0	11.2	97.5
-18M-T-21 Spot 140	233	44292	1.9	9.7911	0.5	4.0708	1.1	0.2892	1.0	0.88	1637.5	14.5	1648.5	9.2	1662.4	9.9	1662.4	9.9	98.5
-18M-T-21 Spot 117	1015	91875	3.2	9.7733	0.6	3.9451	1.0	0.2796	0.8	0.77	1590.2	10.6	1623.0	7.9	1665.8	11.6	1665.8	11.6	95.5
-18M-T-21 Spot 285	187	52864	1.6	9.7342	0.6	4.2192	1.0	0.2980	0.8	0.77	1681.4	11.8	1677.8	8.4	1673.2	12.0	1673.2	12.0	100.5
-18M-T-21 Spot 68	61	15195	1.1	9.7288	0.9	4.0452	1.3	0.2856	1.0	0.75	1619.3	14.0	1643.3	10.6	1674.2	16.0	1674.2	16.0	96.7
-18M-T-21 Spot 301	92	34673	2.6	9.7053	1.2	4.0612	1.7	0.2860	1.1	0.67	1621.6	16.1	1646.5	13.6	1678.5	22.9	1678.5	22.9	96.6
-18M-T-21 Spot 294	130	25429	2.5	9.7023	0.8	3.9972	1.3	0.2814	1.0	0.76	1598.4	13.7	1633.6	10.4	1679.3	15.4	1679.3	15.4	95.2
-18M-T-21 Spot 162	216	90411	1.1	9.6818	0.6	4.2046	1.0	0.2954	0.8	0.77	1668.3	11.1	1674.9	8.0	1683.2	11.4	1683.2	11.4	99.1
-18M-T-21 Spot 246	1928	119821	6.4	9.6785	0.6	3.8661	1.1	0.2715	0.9	0.85	1548.4	12.4	1606.6	8.6	1683.8	10.3	1683.8	10.3	92.0
-18M-T-21 Spot 272	248	23799	1.3	9.6161	0.5	4.3229	1.1	0.3016	1.0	0.88	1699.3	14.6	1697.7	9.2	1695.7	9.9	1695.7	9.9	100.2
-18M-T-21 Spot 242	485	1129834	1.5	9.5299	0.7	4.2922	1.2	0.2968	1.0	0.85	1675.4	15.5	1691.9	10.2	1712.3	12.0	1712.3	12.0	97.8
-18M-T-21 Spot 99	772	704967	1.8	9.5016	0.5	4.4149	1.2	0.3044	1.1	0.90	1713.0	16.7	1715.1	10.2	1717.8	10.1	1717.8	10.1	99.7
-18M-T-21 Spot 218	306	224848	3.7	9.4804	0.5	4.4961	0.9	0.3093	0.8	0.86	1737.1	11.8	1730.2	7.5	1721.9	8.5	1721.9	8.5	100.9
-18M-T-21 Spot 12	437	35944	2.9	9.4484	0.4	4.6067	0.8	0.3158	0.8	0.90	1769.3	11.6	1750.5	7.0	1728.1	6.6	1728.1	6.6	102.4
-18M-T-21 Spot 292	599	69649	5.5	9.4370	0.5	4.4617	1.4	0.3055	1.3	0.92	1718.6	19.2	1723.9	11.4	1730.3	9.7	1730.3	9.7	99.3
-18M-T-21 Spot 292	242	21529	2.4	9.4098	0.5	4.5113	1.0	0.3080	0.9	0.89	1730.7	14.2	1733.1	8.7	1735.8	6.7	1735.8	6.7	99.7
-18M-T-21 Spot 18	377	102418	2.6	9.3800	0.5	4.5770	1.2	0.3115	1.0	0.89	1748.1	15.8	1745.1	9.6	1741.4	9.6	1741.4	9.6	100.4
-18M-T-21 Spot 157	363	90087	1.1	9.3720	0.5	4.5590	0.9	0.3100	0.8	0.83	1740.8	11.7	1741.8	7.7	1743.0	9.5	1743.0	9.5	99.9
-18M-T-21 Spot 5	357	162982	3.6	9.3691	0.4	4.4560	0.9	0.3029	0.8	0.88	1705.8	12.3	1722.8	7.7	1743.6	8.0	1743.6	8.0	97.8
-18M-T-21 Spot 67	632	56764	3.5	9.3691	0.6	4.3912	1.1	0.2985	1.0	0.88	1684.0	14.8	1710.7	9.5	1743.6	10.1	1743.6	10.1	96.6
-18M-T-21 Spot 78	834	58296	4.2	9.3677	0.5	4.5079	1.2	0.3064	1.1	0.90	1723.0	16.2	1732.4	9.9	1743.8	9.4	1743.8	9.4	98.8
-18M-T-21 Spot 118	447	40707	1.8	9.3647	0.5	4.5718	1.4	0.3107	1.3	0.93	1743.9	19.1	1744.1	11.3	1744.4	9.3	1744.4	9.3	100.0
-18M-T-21 Spot 96	780	45635	2.3	9.3604	0.5	4.5439	1.3	0.3086	1.2	0.91	1733.9	18.7	1739.1	11.2	1745.3	10.0	1745.3	10.0	99.3
-18M-T-21 Spot 91	365	37159	0.9	9.3571	0.5	4.6770	1.0	0.3175	0.9	0.87	1777.7	13.5	1783.1	8.3	1745.9	8.9	1745.9	8.9	101.8
-18M-T-21 Spot 259	390	93586	2.7	9.3553	0.4	4.5714	1.2	0.3103	1.1	0.93	1742.2	16.5	1744.1	9.7	1746.3	7.8	1746.3	7.8	99.8
-18M-T-21 Spot 202	924	6781680	2.2	9.3428	0.5	4.5627	1.1	0.3093	1.0	0.89	1737.3	15.1	1742.5	9.3	1746.7	9.2	1746.7	9.2	99.3
-18M-T-21 Spot 112	155	24430	2.8	9.3393	0.6	4.5162	1.1	0.3080	0.9	0.83	1721.2	13.4	1734.0	8.9	1749.0	10.9	1749.0	10.9	98.4
-18M-T-21 Spot 127	203	25804	3.2	9.3325	0.6	4.4924	1.1	0.3042	1.0	0.86	1712.1	14.3	1729.6	9.2	1750.7	10.6	1750.7	10.6	97.8
-18M-T-21 Spot 83	240	162361	3.7	9.3299	0.5	4.6344	0.9	0.3137	0.7	0.81	1759.0	11.0	1755.5	7.4	1751.2	9.6	1751.2	9.6	100.4
-18M-T-21 Spot 65	378	54305	3.0	9.2698	0.7	4.4566	1.4	0.2998	1.2	0.85	1690.1	18.0	1722.9	11.8	1763.1	13.6	1763.1	13.6	95.9
-18M-T-21 Spot 298	130	36873	2.5	9.2616	0.6	4.6941	1.1	0.3148	0.9	0.81	1764.2	13.3	1764.4	8.9	1764.7	11.5	1764.7	11.5	100.0
-18M-T-21 Spot 313	433	300334	2.4	9.2327	0.5	4.8057	0.9	0.3219	0.7	0.81	1799.2	10.9	1785.9	7.2	1770.4	9.2	1770.4	9.2	101.6
-18M-T-21 Spot 48	128	9935	2.8	9.2262	0.7	4.6408	1.2	0.3107	0.9	0.78	1744.0	13.8	1756.6	9.6	1771.7	13.1	1771.7	13.1	98.4
-18M-T-21 Spot 277	382	56551	1.8	9.2206	0.5	4.7327	1.0	0.3166	0.8	0.87	1773.3	13.1	1773.0	8.2	1772.8	8.8	1772.8	8.8	100.0
-18M-T-21 Spot 205	548	308929	3.7	9.2028	0.5	4.4861	1.1	0.2996	1.0	0.90	1689.1	14.4	1728.4	8.9	1776.3	8.4	1776.3	8.4	95.1
-18M-T-21 Spot 107	1030	85700	3.8	9.2007	0.6	4.5639	1.0	0.3047	0.8	0.80	1714.5	11.7	1742.7	8.1	1776.7	10.7	1776.7	10.7	96.5
-18M-T-21 Spot 299	184	20154	1.1	9.1740	0.5	4.8226	0.9	0.3210	0.8	0.82	1794.7	12.2	1788.9	8.0	1782.0	9.9	1782.0	9.9	100.7
-18M-T-21 Spot 293	244	12943	2.8	9.1707	0.7	3.8928	1.7	0.2590	1.5	0.90	1494.9	20.1	1612.2	13.6	1782.7	13.5	1782.7	13.5	83.3
-18M-T-21 Spot 280	209	212013	3.4	9.1434	0.5	4.7567	1.0	0.3156	0.9	0.89	1768.1	14.1	1777.3	8.7	1788.1	8.7	1788.1	8.7	95.9
-18M-T-21 Spot 51	421	63024	3.5	9.1415	0.5	4.7764	1.2	0.3168	1.1	0.90	1774.2	17.4	1780.8	10.4	1788.5	9.7	1788.5	9.7	99.2
-18M-T-21 Spot 103	69	7150	0.7	9.1299	0.9	4.8169	1.3	0.3191	0.9	0.71	1785.3	14.2	1787.8	10.8	1790.8	16.5	1790.8	16.5	99.7
-18M-T-21 Spot 85	1302	120713	3.2	9.1245	0.4	4.4179	0.8	0.2925	0.8	0.87	1654.0	11.7	1715.7	7.6	1791.9	8.2	1791.9	8.2	92.3
-18M-T-21 Spot 284	1328	173774	3.6	9.1181	0.6	4.1483	1.7	0.2744	1.6	0.94	1563.3	22.4	1663.9	14.0	1793.2	10.2	1793.2	10.2	87.2
-18M-T-21 Spot 200	252	87355	2.2	9.1043	0.5	4.6635	1.0	0.3081	0.8	0.84	1731.2	12.8	1780.7	8.3	1795.9	9.8	1795.9	9.8	96.4
-18M-T-21 Spot 79	308	519503	2.4	9.0952	0.5	4.8170	1.0	0.3179	0.8	0.86	1794.4	12.8	1787.9	8.1	1797.7	9.0	1797.7	9.0	99.0
-18M-T-21 Spot 269	93	14226	0.6	9.0939	0.7	4.9508	1.0	0.3267	0.8	0.76	1822.2	12.8	1811.0	8.8	1798.0	12.3	1798.0	12.3	101.3
-18M-T-21 Spot 183	175	287511	2.5	9.0822	0.5	4.7826	1.1	0.3152	0.9	0.87	1766.1	14.4	1781.9	9.0	1800.3	9.5	1800.3	9.5	98.1
-18M-T-21 Spot 111	299	56691	3.2	9.0671	0.5	4.8374	1.0	0.3183	0.9	0.88	1761.2	13.3	1791.4	8.2	1803.4	8.5	1803.4	8.5	98.8
-18M-T-21 Spot 178	185	19925	3.6	9.0664	0.5	4.7465	1.0	0.3122	0.9	0.86	1751.7	13.5	1775.5	8.5	1803.5	9.3	1803.5	9.3	97.1
-18M-T-21 Spot 207	261	19520	1.8	9.0602	0.5	4.8135	0.9	0.3164	0.7	0.85	1772.3	11.2	1787.3	7.2	1804.7	8.3	1804.7	8.3	98.2
-18M-T-21 Spot 84	69	4996	1.1	9.0447	1.2	4.6287	1.5	0.3208	0.8	0.56	1710.0	11.9	1754.5	12.1	1807.9	22.1	1807.9	22.1	94.6
-18M-T-21 Spot 20	73	38098	1.8	9.0441	0.6	4.9677	1.0	0.3260	0.8	0.82	1818.9	13.2	1813.8	8.6	1808.0	10.8	1808.0	10.8	100.6
-18M-T-21 Spot 24	165	38183	1.5	9.0340	0.8	4.8517	1.0	0.3180	0.8	0.79	1780.1	12.0	1783.9	8.3	1810.0	11.0	1810.0	11.0	95.3
-18M-T-21 Spot 151	211	44573	1.7	9.0301	0.5	4.7889	1.0	0.3138	0.8	0.85	1759.2	13.1	1782.9	8.4	1810.8	9.4	1810.8	9.4	97.2
-18M-T-21 Spot 76	552	49258	7.1	9.0100	0.5	4.9378	1.2	0.3228	1.1	0.90	1803.4	16.8	1808.7	10.0	1814.8	9.6	1814.8	9.6	99.4
-18M-T-21 Spot 27	400	46291	1.5	8.9857	0.4	5.0458	0.9	0.3290	0.8	0.89	1833.4	13.3	1827.1	7.9	1819.8	7.7	1819.8	7.7	100.8
-18M-T-21 Spot 113	145	38738	1.0	8.9721	0.5	4.8929	1.0	0.3185	0.8	0.85	1782.5	13.2	1801.0	8.4	1822.5	9.5	1822.5	9.5	97.8
-18M-T-21 Spot 275	162	21391	1.5	8.9640	0.6	5.0183	0.9	0.3263	0.7	0.77	1820.3	11.0	1822.1	7.6	1824.1	10.4	1824.1	10.4	99.8
-18M-T-21 Spot 175	319	30878	3.1	8.9362	0.3	5.1126	0.9	0.3315	0.8	0.93	1845.6	12.6	1838.2	7.2	1829.8	5.9	1829.8	5.9	100.9
-18M-T-21 Spot 255	152	143126	1.1	8.9274	0.5	4													

-18M-T-21 Spot 212	599	364433	1.7	8.4388	0.7	5.3013	1.4	0.3246	1.2	0.85	1812.2	18.6	1869.1	11.8	1932.9	13.0	1932.9	13.0	93.8
-18M-T-21 Spot 1	1547	133439	1.8	8.3781	0.3	5.2895	0.7	0.3214	0.7	0.89	1796.4	10.4	1886.7	6.3	1945.9	5.9	1945.9	5.9	92.3
-18M-T-21 Spot 142	185	38679	3.7	8.3252	0.5	5.7819	0.9	0.3493	0.7	0.81	1831.1	12.0	1943.7	7.7	1957.2	9.4	1957.2	9.4	98.7
-18M-T-21 Spot 53	357	332282	2.5	8.2133	0.8	6.0795	1.2	0.3623	1.1	0.89	1993.1	18.0	1987.3	10.4	1981.3	9.8	1981.3	9.8	100.8
-18M-T-21 Spot 303	437	61890	2.1	8.1845	0.5	5.9088	1.0	0.3510	0.9	0.89	1939.2	14.9	1962.7	8.7	1987.5	8.3	1987.5	8.3	97.6
-18M-T-21 Spot 148	200	24899	2.0	8.1322	0.5	6.0650	1.0	0.3579	0.9	0.85	1972.1	15.0	1985.2	9.0	1998.9	9.7	1998.9	9.7	98.7
-18M-T-21 Spot 89	460	105610	2.1	8.1088	0.5	5.8385	1.0	0.3435	0.8	0.86	1903.5	13.9	1952.1	8.5	2004.1	9.0	2004.1	9.0	95.0
-18M-T-21 Spot 143	209	40635	1.4	7.8819	0.5	6.4073	0.9	0.3664	0.8	0.83	2012.6	13.0	2033.3	7.9	2054.3	8.9	2054.3	8.9	98.0
-18M-T-21 Spot 305	166	23276	1.5	6.7548	0.6	8.8508	1.2	0.4338	1.0	0.87	2322.8	19.9	2322.7	10.7	2322.7	9.7	2322.7	9.7	100.0
-18M-T-21 Spot 227	153	67235	1.5	6.1522	0.6	10.1759	1.2	0.4542	1.0	0.87	2414.1	20.9	2450.9	11.1	2481.5	10.1	2481.5	10.1	97.3
-18M-T-21 Spot 187	169	151641	1.8	5.9205	0.6	10.9444	1.1	0.4702	1.0	0.87	2484.2	20.5	2518.4	10.6	2546.1	9.5	2546.1	9.5	97.6
-18M-T-21 Spot 287	84	136704	1.2	5.7048	0.6	11.5331	1.1	0.4849	0.9	0.84	2548.7	20.0	2567.3	10.5	2582.0	10.0	2582.0	10.0	98.7
-18M-T-21 Spot 260	116	22640	0.9	5.7208	0.8	11.6650	1.1	0.4842	0.9	0.84	2545.5	19.0	2677.9	10.1	2693.4	9.8	2693.4	9.8	97.8
-18M-T-21 Spot 304	561	687223	2.6	5.6742	0.4	11.3673	1.0	0.4680	0.9	0.90	2474.8	18.7	2553.7	9.5	2617.0	7.5	2617.0	7.5	94.6
-18M-T-21 Spot 178	520	94666	4.0	5.5613	0.8	12.5766	1.1	0.5075	1.0	0.87	2645.9	21.7	2648.5	10.8	2650.4	9.4	2650.4	9.4	99.8
-18M-T-21 Spot 216	102	421780	0.8	5.5176	0.5	12.2597	1.1	0.4908	1.0	0.90	2574.2	20.7	2624.5	10.2	2663.5	7.9	2663.5	7.9	96.6
-18M-T-21 Spot 204	180	35187	1.0	5.4822	0.6	12.8257	1.0	0.5102	0.8	0.81	2657.4	17.0	2666.9	8.1	2674.2	9.5	2674.2	9.5	99.4
-18M-T-21 Spot 166	358	34177	1.2	5.4571	0.5	12.9612	0.8	0.5132	0.7	0.84	2670.3	15.3	2676.8	7.9	2681.8	7.6	2681.8	7.6	98.6
-18M-T-21 Spot 222	585	35339	3.8	5.4303	0.6	12.2816	1.2	0.4839	1.0	0.86	2544.3	21.2	2626.2	11.0	2689.9	9.9	2689.9	9.9	94.6
-18M-T-21 Spot 310	532	82191	3.1	5.4086	0.6	13.1598	1.3	0.5164	1.2	0.89	2684.1	25.7	2691.2	12.4	2696.5	9.8	2696.5	9.8	95.5
-18M-T-21 Spot 197	354	500980	1.3	5.3915	0.5	12.5654	1.5	0.4916	1.4	0.95	2577.4	30.7	2647.6	14.3	2701.7	7.8	2701.7	7.8	95.4
-18M-T-21 Spot 159	182	30938	2.6	5.3815	0.5	13.0370	0.9	0.5091	0.8	0.84	2652.6	16.9	2682.3	8.7	2704.8	8.2	2704.8	8.2	98.1
-18M-T-21 Spot 254	73	24937	1.5	5.3744	0.6	13.0680	1.1	0.5096	0.9	0.82	2654.9	18.9	2684.6	10.0	2707.0	10.0	2707.0	10.0	98.1
-18M-T-21 Spot 300	176	271848	1.0	5.3389	0.5	13.3424	0.9	0.5169	0.8	0.82	2685.8	16.8	2704.2	8.7	2717.9	8.7	2717.9	8.7	98.8
-18M-T-21 Spot 245	187	22687	6.1	5.3276	0.6	10.9985	1.4	0.4252	1.2	0.89	2283.9	23.7	2523.0	12.8	2721.4	10.2	2721.4	10.2	83.9
-18M-T-21 Spot 297	791	127785	42.0	5.3270	0.5	13.8513	1.2	0.5354	1.1	0.91	2764.1	24.5	2739.6	11.4	2721.6	8.3	2721.6	8.3	101.8
-18M-T-21 Spot 153	51	96656	1.0	5.3215	0.6	12.7777	1.0	0.4934	0.7	0.74	2585.3	14.9	2683.4	9.0	2723.3	10.6	2723.3	10.6	94.9
-18M-T-21 Spot 312	150	28010	0.7	5.2917	0.5	13.4663	0.9	0.5170	0.8	0.81	2686.6	16.6	2712.9	8.8	2732.5	9.0	2732.5	9.0	98.3
-18M-T-21 Spot 289	649	123411	1.8	5.2836	0.5	12.6438	0.9	0.4847	0.8	0.83	2547.8	16.5	2653.5	8.9	2735.0	8.8	2735.0	8.8	93.2
-18M-T-21 Spot 193	178	38817	0.6	5.2682	0.4	13.9403	0.8	0.5329	0.6	0.81	2753.6	13.9	2745.7	7.2	2739.8	7.4	2739.8	7.4	100.8
-18M-T-21 Spot 257	144	1181294	1.6	5.2527	0.6	13.2449	1.2	0.5048	1.0	0.87	2634.4	22.0	2697.3	11.1	2744.7	9.6	2744.7	9.6	98.0
-18M-T-21 Spot 69	127	62462	0.7	5.2405	0.6	13.2745	1.1	0.5048	1.0	0.87	2634.2	21.5	2699.4	10.7	2748.5	9.1	2748.5	9.1	95.8
-18M-T-21 Spot 231	137	70799	0.8	5.2269	0.5	13.8113	0.9	0.5238	0.7	0.84	2715.3	18.2	2736.9	8.2	2752.8	7.6	2752.8	7.6	98.6
-18M-T-21 Spot 265	83	34231	0.4	5.2075	0.6	13.3508	0.9	0.5045	0.7	0.74	2632.9	14.4	2704.8	8.5	2758.9	9.9	2758.9	9.9	95.4
-18M-T-21 Spot 224	277	1220269	1.6	5.1772	0.6	13.7811	1.1	0.5177	0.9	0.85	2689.4	19.9	2734.8	10.1	2768.5	9.1	2768.5	9.1	97.1
-18M-T-21 Spot 230	90	209687	1.7	5.1575	0.5	14.0900	1.1	0.5273	0.9	0.87	2730.0	21.1	2755.8	10.3	2774.7	8.9	2774.7	8.9	98.4
-18M-T-21 Spot 124	297	500048	1.8	5.1486	0.6	14.1935	1.1	0.5302	1.0	0.85	2742.4	21.3	2762.7	10.7	2777.6	9.7	2777.6	9.7	98.7
-18M-T-21 Spot 201	331	691461	4.3	5.1431	0.6	14.4419	1.0	0.5389	0.9	0.84	2779.0	19.9	2779.2	9.9	2779.3	9.3	2779.3	9.3	100.0
-18M-T-21 Spot 57	104	15445	2.5	5.1174	0.4	14.6051	0.9	0.5423	0.8	0.89	2793.1	18.8	2789.9	8.8	2787.5	6.9	2787.5	6.9	100.2
-18M-T-21 Spot 201	59	12063	0.7	5.0394	0.8	14.6152	1.0	0.5344	0.8	0.80	2760.0	17.7	2790.5	9.3	2812.7	9.6	2812.7	9.6	98.1
-18M-T-21 Spot 156	22	97749	0.7	5.0364	0.7	13.4188	1.2	0.4904	1.0	0.83	2572.2	21.1	2709.6	11.3	2813.6	11.0	2813.6	11.0	91.4
-18M-T-21 Spot 107	229	27881	0.7	5.0124	0.5	14.9333	1.0	0.5431	0.9	0.84	2795.5	19.4	2811.0	9.7	2821.4	8.9	2821.4	8.9	99.1
-18M-T-21 Spot 37	124	119310	1.8	5.0087	0.7	14.7577	1.4	0.5363	1.3	0.88	2768.1	28.2	2799.7	13.5	2822.6	11.0	2822.6	11.0	98.1
-18M-T-21 Spot 55	110	170569	1.0	5.0008	0.5	14.3403	1.0	0.5203	0.9	0.87	2700.8	20.1	2772.5	9.9	2825.2	8.3	2825.2	8.3	95.8
-18M-T-21 Spot 108	93	26742	1.9	4.9338	0.5	14.9512	1.0	0.5352	0.9	0.89	2763.5	19.8	2812.1	9.4	2847.2	7.4	2847.2	7.4	97.1
-18M-T-21 Spot 273	133	31465	2.7	4.8394	0.5	15.6076	1.0	0.5480	0.8	0.84	2817.0	19.4	2853.1	9.6	2878.6	8.9	2878.6	8.9	97.9
-18M-T-21 Spot 25	278	56806	0.9	4.6108	0.6	17.7390	1.0	0.5935	0.8	0.83	3003.5	20.3	2975.7	9.8	2957.0	9.1	2957.0	9.1	101.6
-18M-T-21 Spot 13	189	107499	1.3	4.1387	0.8	21.1398	1.2	0.6348	0.9	0.76	3168.6	22.8	3145.0	11.6	3130.0	12.4	3130.0	12.4	101.2
-18M-T-21 Spot 3	251	141797	1.5	3.8806	0.4	21.4683	1.0	0.6045	0.9	0.90	3047.9	20.7	3160.0	9.2	3232.0	6.6	3232.0	6.6	94.3
-18M-T-21 Spot 87	878	122107	1.6	3.8273	0.6	22.6263	1.3	0.6283	1.1	0.90	3143.0	28.2	3211.0	12.3	3253.8	8.8	3253.8	8.8	96.6
18MT-27 (Pennsylvanian Quadrant Fm. Snowcrest Range) U-Pb geochronologic analyses																			
Isotope ratios																			
Apparent ages (Ma)																			
Analysis	U	208Pb	U/Th	208Pb*	±	207Pb*	±	208Pb*	±	error	208Pb*	±	207Pb*	±	208Pb*	±	Best age	±	Conc
	(ppm)	204Pb		207Pb*	(%)	235U*	(%)	238U	(%)	corr.	238U*	(Ma)	235U	(Ma)	207Pb*	(Ma)	(Ma)	(Ma)	(%)
-18-27 Spot 65	700	9386	1.6	18.2063	0.8	0.3744	1.4	0.0495	1.1	0.79	311.2	3.3	322.9	3.8	408.2	18.8	311.2	3.3	NA
-18-27 Spot 84	285	6839	4.2	16.2817	1.6	0.4390	2.5	0.0519	1.9	0.76	326.0	6.0	369.6	7.7	653.0	34.4	326.0	6.0	NA
-18-27 Spot 311	498	36570	0.7	18.4377	0.8	0.4105	1.2	0.0549	0.8	0.70	344.7	2.7	349.3	3.5	379.9	18.7	344.7	2.7	NA
-18-27 Spot 55	561	135072	2.9	18.6698	0.6	0.4276	1.1	0.0579	0.9	0.83	363.0	3.3	361.4	3.5	351.7	14.5	363.0	3.3	NA
-18-27 Spot 51	233	5795	2.4	16.3823	1.9	0.4939	2.2	0.0587	1.2	0.55	367.8	4.4	407.6	7.5	639.8	40.1	367.8	4.4	NA
-18-27 Spot 220	428	17275	1.1	18.6402	0.6	0.4400	1.6	0.0595	1.4	0.92	372.8	5.2	370.2	4.8	354.2	13.7	372.8	5.2	NA
-18-27 Spot 101	222	17907	1.4	18.2686	0.8	0.4563	1.2	0.0605	0.9	0.75	378.6	3.3	381.7	3.8	400.6	17.9	378.6	3.3	NA
-18-27 Spot 6	165	11048	2.1	17.4793	1.8	0.4805	2.3	0.0609	1.5	0.84	381.4	5.5	398.4	7.8	498.7	39.2	381.4	5.5	NA
-18-27 Spot 154	320	14450	1.2	18.7749	1.0	0.4490	1.3	0.0612	0.8	0.82	382.7	2.9	376.6	4.0	339.0	22.5	382.7	2.9	NA
-18-27 Spot 198	261	30904	1.2	17.7429	0.9	0.5290	1.2	0.0681	0.8	0.70	424.7	3.5	431.2	4.3					

-18-27 Spot 81	650	481124	22.2	13.8260	0.5	1.5882	1.1	0.1605	1.0	0.91	950.4	8.8	985.6	6.8	979.6	9.2	979.6	9.2	97.9
-18-27 Spot 202	26	2588	3.1	13.3016	1.4	1.6275	1.8	0.1630	1.1	0.62	973.3	10.3	980.9	11.5	997.9	29.0	997.9	29.0	97.5
-18-27 Spot 3	242	23691	1.9	13.7106	0.8	1.6894	1.0	0.1680	0.8	0.78	1000.9	7.5	1004.2	8.6	1011.3	13.1	1011.3	13.1	99.0
-18-27 Spot 87	342	17513	1.6	13.7034	0.8	1.7011	1.3	0.1691	1.1	0.86	1007.4	10.3	1008.9	8.1	1012.4	13.0	1012.4	13.0	99.5
-18-27 Spot 257	1111	145463	4.8	13.6775	0.5	1.7388	1.1	0.1724	0.9	0.86	1025.1	9.6	1022.3	8.8	1016.2	11.0	1016.2	11.0	100.9
-18-27 Spot 282	420	40255	0.9	13.6751	0.6	1.6603	1.4	0.1647	1.2	0.91	983.1	11.3	993.5	8.7	1016.5	11.7	1016.5	11.7	96.7
-18-27 Spot 252	147	29789	3.3	13.6393	0.7	1.7049	0.9	0.1687	0.6	0.63	1005.1	5.6	1010.4	6.1	1021.8	14.8	1021.8	14.8	98.4
-18-27 Spot 308	1013	99787	3.9	13.6270	0.5	1.7791	1.0	0.1759	0.9	0.85	1044.6	8.5	1037.9	6.8	1023.7	11.1	1023.7	11.1	102.0
-18-27 Spot 177	139	27634	1.2	13.6207	0.6	1.7300	1.1	0.1710	0.9	0.85	1017.5	8.4	1019.8	6.8	1024.6	11.3	1024.6	11.3	99.3
-18-27 Spot 191	319	19020	2.8	13.5726	0.7	1.7314	1.0	0.1705	0.7	0.72	1014.9	6.5	1020.3	6.2	1031.8	13.4	1031.8	13.4	98.4
-18-27 Spot 40	82	6688	2.3	13.5494	1.0	1.7148	1.4	0.1686	1.0	0.68	1004.3	8.8	1014.1	9.0	1035.2	20.8	1035.2	20.8	97.0
-18-27 Spot 17	356	41248	3.3	13.5255	0.6	1.7673	1.4	0.1734	1.3	0.89	1031.1	12.3	1033.5	9.3	1038.8	13.0	1038.8	13.0	99.3
-18-27 Spot 118	697	47377	0.5	13.5148	0.6	1.7028	1.0	0.1670	0.8	0.79	995.4	7.5	1009.6	6.7	1040.4	13.0	1040.4	13.0	95.7
-18-27 Spot 267	125	14892	2.7	13.5028	0.8	1.7817	1.2	0.1746	0.8	0.73	1037.2	8.1	1038.8	7.6	1042.2	16.1	1042.2	16.1	99.5
-18-27 Spot 281	75	19628	2.9	13.4903	1.0	1.6819	1.3	0.1646	0.9	0.66	982.5	7.9	1001.7	8.4	1044.1	19.9	1044.1	19.9	94.1
-18-27 Spot 151	31	5644	1.3	13.4783	1.9	1.7474	2.1	0.1709	0.9	0.45	1017.0	8.9	1026.2	13.7	1045.9	38.3	1045.9	38.3	97.2
-18-27 Spot 98	1011	43581	3.3	13.4691	0.5	1.7782	0.9	0.1739	0.8	0.85	1033.5	7.6	1037.9	6.1	1047.3	10.0	1047.3	10.0	98.7
-18-27 Spot 52	73	10856	2.2	13.4588	0.8	1.7688	1.3	0.1725	0.9	0.74	1028.1	8.8	1033.3	8.1	1048.8	17.0	1048.8	17.0	97.8
-18-27 Spot 144	100	8385	1.4	13.4575	0.9	1.8524	1.2	0.1809	0.7	0.59	1071.8	6.9	1064.3	7.8	1049.0	19.1	1049.0	19.1	102.2
-18-27 Spot 111	89	214229	3.1	13.3896	0.6	1.7113	1.1	0.1662	0.9	0.84	991.4	8.1	1012.8	6.7	1059.3	11.5	1059.3	11.5	93.6
-18-27 Spot 164	47	12111	0.9	13.3270	1.0	1.8120	1.5	0.1752	1.1	0.74	1040.8	10.4	1049.8	9.6	1068.6	20.0	1068.6	20.0	97.4
-18-27 Spot 140	136	93910	2.5	13.3014	0.7	1.8381	1.0	0.1772	0.8	0.75	1051.7	7.3	1058.5	6.7	1072.5	13.5	1072.5	13.5	98.1
-18-27 Spot 150	333	51299	2.2	13.2960	0.5	1.8285	0.9	0.1764	0.8	0.87	1047.2	8.0	1055.7	6.2	1073.4	9.4	1073.4	9.4	97.6
-18-27 Spot 227	54	8340	1.5	13.2767	1.3	1.7939	1.8	0.1728	1.2	0.85	1027.6	11.1	1043.2	11.6	1076.2	27.0	1076.2	27.0	95.5
-18-27 Spot 47	131	52273	1.4	13.2688	0.7	1.8507	1.0	0.1782	0.8	0.76	1057.0	7.5	1063.7	6.7	1077.4	13.2	1077.4	13.2	98.1
-18-27 Spot 201	196	23039	1.7	13.2594	0.7	1.8602	1.1	0.1790	0.8	0.74	1061.3	7.8	1067.1	7.1	1078.8	14.7	1078.8	14.7	98.4
-18-27 Spot 276	126	40236	3.2	13.2011	0.9	1.7584	1.3	0.1684	1.0	0.76	1003.5	9.5	1030.3	8.7	1087.6	17.3	1087.6	17.3	92.3
-18-27 Spot 71	455	59004	4.0	13.1783	0.5	1.9160	0.9	0.1832	0.8	0.84	1084.5	7.7	1086.7	6.1	1091.1	10.0	1091.1	10.0	96.4
-18-27 Spot 215	427	36409	2.0	13.1496	0.6	1.9168	1.3	0.1829	1.2	0.90	1082.7	12.1	1087.0	8.9	1095.5	11.4	1095.5	11.4	98.8
-18-27 Spot 246	158	360241	1.2	13.1435	0.7	1.8987	1.2	0.1811	0.9	0.79	1072.9	9.3	1080.6	7.9	1096.4	14.8	1096.4	14.8	97.9
-18-27 Spot 259	678	72722	4.6	13.1315	0.6	1.9560	1.3	0.1864	1.2	0.90	1101.7	12.0	1100.5	8.8	1098.2	11.3	1098.2	11.3	100.3
-18-27 Spot 42	74	11773	1.5	13.1247	0.7	1.9154	1.0	0.1824	0.7	0.72	1080.1	7.1	1086.5	6.8	1099.2	13.7	1099.2	13.7	98.3
-18-27 Spot 107	279	37232	5.3	13.0786	0.8	1.8846	1.2	0.1788	1.0	0.85	1060.5	9.8	1075.7	7.8	1106.6	12.3	1106.6	12.3	95.8
-18-27 Spot 262	98	5368	4.4	13.0762	0.7	2.0630	1.0	0.1957	0.7	0.72	1152.4	7.7	1138.6	6.9	1106.6	14.0	1106.6	14.0	104.1
-18-27 Spot 5	466	73543	1.7	12.9718	0.5	1.8957	1.2	0.1784	1.1	0.93	1058.4	11.1	1079.6	8.2	1122.7	9.3	1122.7	9.3	94.3
-18-27 Spot 72	646	185916	3.4	12.9683	0.6	2.0229	1.2	0.1902	1.1	0.88	1122.5	10.8	1123.2	8.1	1124.7	11.4	1124.7	11.4	99.8
-18-27 Spot 210	531	49689	2.0	12.9365	0.5	2.0190	1.1	0.1895	1.0	0.90	1118.7	10.3	1121.9	7.5	1128.1	9.8	1128.1	9.8	99.2
-18-27 Spot 245	179	40512	2.3	12.9365	0.7	2.0136	1.3	0.1890	1.0	0.81	1116.0	10.7	1120.1	8.7	1128.1	14.9	1128.1	14.9	98.9
-18-27 Spot 75	468	62884	2.6	12.9868	0.6	1.9860	1.3	0.1859	1.2	0.89	1099.0	11.8	1110.8	8.8	1133.9	11.7	1133.9	11.7	96.9
-18-27 Spot 298	526	38382	3.7	12.8802	0.6	2.1056	1.1	0.1969	0.9	0.83	1158.8	9.7	1150.6	7.6	1135.4	12.2	1135.4	12.2	102.1
-18-27 Spot 115	44	33977	1.9	12.8558	1.0	1.9970	1.4	0.1863	0.9	0.67	1101.2	9.5	1114.5	9.4	1140.6	20.5	1140.6	20.5	96.5
-18-27 Spot 192	138	38429	2.3	12.8283	0.9	2.0993	1.4	0.1964	1.1	0.77	1150.6	11.4	1148.8	9.6	1144.8	17.7	1144.8	17.7	100.5
-18-27 Spot 38	229	32147	2.7	12.8182	0.7	1.9982	1.1	0.1857	0.9	0.79	1097.8	8.6	1114.2	7.3	1146.4	13.1	1146.4	13.1	95.8
-18-27 Spot 132	86	9390	2.1	12.7921	0.9	2.0843	1.4	0.1935	1.0	0.76	1140.1	10.8	1143.8	9.3	1150.4	17.3	1150.4	17.3	99.1
-18-27 Spot 85	154	29826	2.3	12.7674	0.7	2.0996	1.2	0.1943	0.9	0.80	1144.9	9.7	1148.7	7.9	1155.8	13.8	1155.8	13.8	99.1
-18-27 Spot 288	180	33984	1.8	12.7567	0.8	2.0996	1.4	0.1943	1.2	0.81	1144.8	12.1	1148.7	9.8	1156.1	16.4	1156.1	16.4	99.0
-18-27 Spot 15	236	36953	3.5	12.7194	0.8	2.1403	1.5	0.1975	1.3	0.98	1162.0	13.9	1161.9	10.5	1161.7	15.2	1161.7	15.2	100.0
-18-27 Spot 32	67	32828	3.3	12.8539	1.0	2.0750	1.7	0.1906	1.4	0.82	1124.2	14.7	1140.8	12.0	1172.0	20.0	1172.0	20.0	95.9
-18-27 Spot 137	109	29171	1.6	12.8174	0.8	2.1554	1.3	0.1973	1.0	0.79	1160.9	10.9	1168.8	9.0	1177.5	15.7	1177.5	15.7	98.8
-18-27 Spot 4	63	10865	1.0	12.8085	1.1	2.2915	1.4	0.2096	0.8	0.58	1228.7	9.0	1209.7	9.8	1179.4	22.3	1179.4	22.3	104.0
-18-27 Spot 272	522	92490	1.1	12.5820	0.6	2.2082	0.9	0.2016	0.7	0.80	1183.9	8.0	1183.6	6.5	1183.2	11.0	1183.2	11.0	100.1
-18-27 Spot 186	172	58905	1.4	12.4481	0.7	2.2693	1.1	0.2050	0.8	0.78	1201.9	9.2	1202.8	7.6	1204.3	13.1	1204.3	13.1	99.8
-18-27 Spot 309	24	6326	2.6	12.3687	1.1	2.3172	1.4	0.2080	0.9	0.63	1217.9	9.9	1217.6	10.1	1216.9	21.8	1216.9	21.8	100.1
-18-27 Spot 80	41	3354	1.2	12.3159	0.7	2.3271	1.1	0.2080	0.9	0.80	1217.9	9.8	1220.6	7.8	1225.3	13.1	1225.3	13.1	99.4
-18-27 Spot 208	298	1841314	1.9	12.2981	0.7	2.2935	1.3	0.2047	1.0	0.83	1200.3	11.4	1210.3	8.9	1228.2	13.6	1228.2	13.6	97.7
-18-27 Spot 255	661	35802	3.1	12.2244	0.6	2.3627	1.0	0.2066	0.8	0.82	1226.5	9.0	1231.4	7.0	1240.0	11.1	1240.0	11.1	98.9
-18-27 Spot 190	1661	35174	3.1	12.0541	0.6	2.0228	1.1	0.1769	0.9	0.81	1050.1	8.6	1123.2	7.4	1267.4	12.4	1267.4	12.4	82.9
-18-27 Spot 95	68	6589	2.1	12.0421	1.8	1.9890	2.0	0.1738	0.9	0.43	1033.0	8.2	1111.8	13.4	1269.4	35.0	1269.4	35.0	81.4
-18-27 Spot 44	628	51299	1.7	11.9776	0.6	2.4065	1.2	0.2091	1.1	0.86	1224.3	11.8	1244.5	8.8	1279.8	12.3	1279.8	12.3	95.7
-18-27 Spot 274	257	37794	2.1	11.9692	0.6	2.5333	1.3	0.2200	1.1	0.89	1281.9	13.3	1281.6	9.4	1281.2	11.4	1281.2	11.4	100.1
-18-27 Spot 125	237	59282	2.1	11.8961	0.6	2.5894	1.4	0.2233	1.3	0.89	1299.4	14.7	1297.8	10.3	1294.7	12.3	1294.7	12.3	100.4
-18-27 Spot 18	194	37002	3.2	11.7998	0.6	2.5899	1.1	0.2217	0.9	0.82	1291.1	10.8	1297.8	8.2	1308.9				

-18-27 Spot 19	745	34235	8.8	10.1219	0.6	3.3300	1.5	0.2446	1.4	0.93	1410.4	18.2	1488.1	12.1	1600.7	10.9	1600.7	10.9	88.1
-18-27 Spot 30	373	57277	1.8	10.0721	0.6	3.0957	1.1	0.2262	1.0	0.84	1314.8	11.4	1431.8	8.8	1609.9	11.4	1609.9	11.4	81.7
-18-27 Spot 143	463	60662	1.8	10.0605	0.5	3.7400	1.3	0.2730	1.2	0.91	1558.1	16.7	1580.0	10.6	1612.0	10.1	1612.0	10.1	96.5
-18-27 Spot 231	87	39061	2.2	10.0251	0.8	3.8287	1.4	0.2785	1.2	0.94	1583.8	16.4	1568.8	11.2	1618.6	14.1	1618.6	14.1	97.9
-18-27 Spot 129	80	33419	2.1	10.0191	0.8	3.8676	1.3	0.2812	1.0	0.78	1597.2	14.0	1607.0	10.2	1619.7	14.5	1619.7	14.5	98.6
-18-27 Spot 26	82	14982	2.3	10.0031	0.6	3.8138	1.1	0.2768	1.0	0.84	1675.3	13.4	1566.7	9.2	1622.7	11.7	1622.7	11.7	97.1
-18-27 Spot 172	421	58317	103.2	9.9852	0.4	3.9747	1.0	0.2880	0.9	0.91	1631.4	13.0	1629.0	8.1	1626.0	7.9	1626.0	7.9	100.3
-18-27 Spot 273	154	32440	1.6	9.9735	0.5	3.9369	0.8	0.2849	0.6	0.79	1618.0	9.3	1621.3	6.7	1628.2	9.5	1628.2	9.5	99.3
-18-27 Spot 16	264	63201	2.1	9.9721	0.6	3.9016	1.4	0.2823	1.2	0.89	1603.0	17.4	1614.0	11.1	1628.5	11.8	1628.5	11.8	98.4
-18-27 Spot 127	113	39492	1.3	9.9719	0.6	3.9327	1.2	0.2845	1.0	0.86	1614.2	14.6	1620.4	9.7	1628.5	11.5	1628.5	11.5	99.1
-18-27 Spot 99	198	31765	1.9	9.9477	0.6	3.8469	1.1	0.2777	0.9	0.83	1579.6	13.2	1602.6	9.2	1633.0	11.9	1633.0	11.9	96.7
-18-27 Spot 305	139	26203	2.0	9.9387	0.5	3.9604	0.9	0.2878	0.8	0.83	1630.3	10.8	1632.2	7.4	1634.7	9.4	1634.7	9.4	99.7
-18-27 Spot 56	158	66532	2.8	9.9223	0.5	3.8438	1.2	0.2767	1.1	0.89	1574.9	15.1	1602.0	9.8	1637.8	10.2	1637.8	10.2	98.2
-18-27 Spot 102	128	87770	0.7	9.9162	0.6	3.8730	1.0	0.2787	0.8	0.80	1564.6	11.7	1608.1	8.4	1638.9	11.5	1638.9	11.5	96.7
-18-27 Spot 74	176	78071	4.0	9.9104	0.6	3.9975	1.2	0.2875	1.0	0.87	1628.8	14.6	1633.7	9.5	1640.0	10.8	1640.0	10.8	99.3
-18-27 Spot 178	512	111124	3.3	9.9092	0.6	3.8939	1.4	0.2800	1.3	0.89	1591.2	17.7	1612.4	11.4	1640.2	11.8	1640.2	11.8	97.0
-18-27 Spot 224	215	37626	2.2	9.8977	0.6	3.5964	0.9	0.2584	0.7	0.76	1481.8	8.6	1549.2	6.8	1642.4	10.4	1642.4	10.4	90.2
-18-27 Spot 230	434	41601	1.2	9.8828	0.6	3.8559	1.2	0.2837	1.0	0.87	1609.8	14.5	1625.2	9.5	1645.2	10.7	1645.2	10.7	97.9
-18-27 Spot 284	396	73377	4.7	9.8770	0.5	4.1270	1.1	0.2958	0.9	0.86	1670.3	13.4	1659.7	8.6	1646.2	9.8	1646.2	9.8	101.5
-18-27 Spot 239	357	80809	2.4	9.8670	0.5	3.2675	1.1	0.2339	1.0	0.89	1355.1	12.5	1473.3	8.9	1648.1	9.6	1648.1	9.6	82.2
-18-27 Spot 300	474	1029356	2.6	9.8666	0.5	4.1369	1.1	0.2962	0.9	0.87	1672.2	13.9	1661.6	8.9	1648.2	9.8	1648.2	9.8	101.5
-18-27 Spot 279	226	305818	2.1	9.8388	0.5	4.0237	1.3	0.2872	1.1	0.90	1627.7	16.4	1639.0	10.3	1653.4	10.2	1653.4	10.2	98.4
-18-27 Spot 205	902	693710	4.8	9.8353	0.6	3.9887	1.0	0.2847	0.8	0.78	1614.7	11.1	1631.9	8.1	1654.1	11.5	1654.1	11.5	97.6
-18-27 Spot 27	249	244358	1.5	9.8353	0.6	4.0403	1.2	0.2883	1.0	0.84	1633.2	14.5	1642.4	9.7	1654.1	11.9	1654.1	11.9	98.7
-18-27 Spot 1	503	59938	2.6	9.8314	0.5	4.0983	1.1	0.2924	1.0	0.90	1653.3	14.2	1654.0	8.9	1654.8	9.0	1654.8	9.0	99.9
-18-27 Spot 160	283	48198	2.3	9.8248	0.4	4.1528	1.0	0.2960	0.9	0.90	1671.6	13.3	1664.8	8.2	1656.1	8.0	1656.1	8.0	100.9
-18-27 Spot 243	81	15810	1.2	9.7915	0.7	4.0148	1.1	0.2852	0.8	0.73	1617.7	11.2	1637.2	8.7	1662.4	13.7	1662.4	13.7	97.3
-18-27 Spot 165	236	26236	0.7	9.7835	0.5	4.1462	1.1	0.2945	0.9	0.87	1664.2	13.8	1684.1	8.8	1663.9	9.7	1663.9	9.7	100.0
-18-27 Spot 171	148	39447	1.7	9.7807	0.5	4.1760	0.8	0.2964	0.7	0.79	1673.2	9.9	1669.3	7.0	1684.4	9.6	1684.4	9.6	100.5
-18-27 Spot 122	181	49563	1.1	9.7629	0.6	4.1826	1.1	0.2963	0.9	0.84	1672.9	13.8	1670.6	9.0	1667.8	11.2	1667.8	11.2	100.3
-18-27 Spot 152	116	50851	1.7	9.7182	0.6	4.0662	1.0	0.2969	0.8	0.80	1626.2	11.4	1648.2	8.1	1676.3	11.0	1676.3	11.0	97.0
-18-27 Spot 214	792	103568	12.3	9.6833	0.6	3.8068	1.1	0.2529	0.9	0.84	1453.4	11.8	1551.0	8.5	1686.7	10.6	1686.7	10.6	88.2
-18-27 Spot 180	184	228552	2.1	9.6213	0.6	4.1509	1.0	0.2898	0.8	0.83	1640.4	12.3	1664.4	8.4	1694.7	10.5	1694.7	10.5	96.8
-18-27 Spot 54	637	235340	1.3	9.6189	0.6	4.3683	1.2	0.3049	1.1	0.86	1715.5	16.0	1706.4	10.2	1695.2	11.6	1695.2	11.6	101.2
-18-27 Spot 35	159	39913	1.9	9.5257	0.7	4.1054	1.3	0.2837	1.1	0.86	1610.2	16.1	1655.4	10.8	1713.1	12.6	1713.1	12.6	94.0
-18-27 Spot 250	94	30128	1.2	9.5191	0.6	4.6277	1.0	0.3127	0.8	0.78	1754.1	12.5	1736.1	8.6	1714.4	11.8	1714.4	11.8	102.3
-18-27 Spot 33	274	40229	2.4	9.4623	0.5	4.4352	1.1	0.3045	0.9	0.87	1713.6	13.8	1718.9	8.7	1725.4	9.6	1725.4	9.6	99.3
-18-27 Spot 232	521	154282	3.6	9.4508	0.7	4.0947	1.2	0.2808	1.0	0.83	1595.3	13.8	1653.2	9.6	1727.6	12.1	1727.6	12.1	92.3
-18-27 Spot 7	133	37694	3.0	9.4439	0.6	4.0005	1.2	0.2741	1.0	0.85	1561.7	14.5	1634.3	9.9	1729.0	11.3	1729.0	11.3	90.3
-18-27 Spot 242	783	224066	3.1	9.4284	0.6	3.9101	1.2	0.2675	1.0	0.87	1528.1	13.9	1615.8	9.5	1732.0	10.8	1732.0	10.8	88.2
-18-27 Spot 134	219	24888	2.9	9.4250	0.6	4.5283	1.2	0.3095	1.0	0.85	1738.4	15.0	1735.8	9.6	1732.7	11.2	1732.7	11.2	100.3
-18-27 Spot 234	301	116473	2.7	9.4132	0.4	4.3883	1.3	0.2986	1.2	0.94	1689.3	17.5	1709.8	10.4	1735.0	8.1	1735.0	8.1	97.4
-18-27 Spot 310	456	113771	2.8	9.4131	0.5	4.5712	0.9	0.3122	0.8	0.85	1751.8	12.3	1744.0	7.9	1735.0	9.1	1735.0	9.1	101.0
-18-27 Spot 301	903	38979	1.8	9.3980	0.7	4.1784	1.3	0.2949	1.2	0.86	1615.8	16.5	1669.8	11.0	1738.3	12.7	1738.3	12.7	93.0
-18-27 Spot 117	529	32455	4.5	9.3958	0.6	4.3476	1.2	0.2964	1.0	0.87	1673.4	15.3	1702.4	9.8	1738.4	10.8	1738.4	10.8	98.3
-18-27 Spot 103	271	101984	4.2	9.3955	0.6	4.5375	1.2	0.3093	1.1	0.87	1737.4	16.2	1737.9	10.2	1738.4	11.3	1738.4	11.3	99.9
-18-27 Spot 295	259	33636	2.2	9.3870	0.6	3.7058	1.1	0.2524	1.0	0.87	1450.8	13.0	1572.8	9.1	1740.1	10.2	1740.1	10.2	83.4
-18-27 Spot 197	436	82451	1.4	9.3815	0.6	4.2879	1.4	0.2919	1.2	0.90	1650.9	17.8	1691.0	11.2	1741.1	11.0	1741.1	11.0	94.8
-18-27 Spot 39	205	28643	4.0	9.3815	0.6	4.4691	1.1	0.3042	0.9	0.80	1712.2	13.1	1725.3	9.0	1741.1	11.8	1741.1	11.8	98.3
-18-27 Spot 119	445	79000	3.9	9.3582	0.5	4.7093	1.1	0.3198	1.0	0.89	1788.6	15.4	1768.9	9.3	1745.7	9.4	1745.7	9.4	102.5
-18-27 Spot 58	166	50564	1.4	9.3581	0.5	4.4199	1.0	0.3001	0.8	0.85	1691.9	12.6	1716.1	8.3	1745.7	9.8	1745.7	9.8	96.9
-18-27 Spot 82	174	81771	2.4	9.3241	0.6	4.4845	1.0	0.3034	0.8	0.82	1708.1	12.3	1728.1	8.3	1752.4	10.5	1752.4	10.5	97.5
-18-27 Spot 97	740	111500	4.9	9.3110	0.7	4.5365	1.2	0.3065	1.0	0.84	1723.4	15.5	1737.7	10.1	1755.0	12.1	1755.0	12.1	98.2
-18-27 Spot 139	51	8390	2.7	9.3017	0.8	4.0840	1.2	0.2766	0.9	0.75	1569.3	12.1	1651.1	9.4	1756.8	13.9	1756.8	13.9	89.3
-18-27 Spot 126	792	422340	3.1	9.2944	0.6	4.4626	1.1	0.3010	0.9	0.83	1698.0	14.2	1724.0	9.5	1758.2	11.7	1758.2	11.7	95.5
-18-27 Spot 156	639	337246	2.7	9.2566	0.5	4.6093	1.2	0.3097	1.1	0.91	1739.1	16.5	1751.0	10.0	1765.1	9.2	1765.1	9.2	98.5
-18-27 Spot 176	628	216807	2.4	9.2277	0.6	4.8757	1.1	0.3264	0.9	0.83	1821.1	15.1	1798.1	9.6	1771.4	11.5	1771.4	11.5	102.8
-18-27 Spot 68	334	260068	4.8	9.1884	0.6	4.8185	1.2	0.3206	1.0	0.87	1792.7	16.4	1788.3	10.2	1783.1	11.0	1783.1	11.0	100.5
-18-27 Spot 233	344	39392	6.3	9.1622	0.5	4.8997	1.2	0.3257	1.1	0.90	1817.7	16.9	1802.2	9.9	1784.4	9.2	1784.4	9.2	101.9
-18-27 Spot 293	377	55976	2.3	9.1494	0.5	4.8369	1.2	0.3211	1.1	0.90	1795.1	17.0	1791.3	10.1	1786.9	9.4	1786.9	9.4	100.5
-18-27 Spot 14	251	99725	3.3	9.1493	0.5	4.8614	1.2	0.3227	1.0	0.89	1803.0	16.2	1795.8	9.8	1786.9	9.6	1786.9	9.6	100.9
-18-27 Spot 244	174	251813	3.5	9.1355	0.5	4.8857	1.0	0.3225	0.8	0.87	1802.1	13.3	1786.3	8.2	1				

-18-27 Spot 161	134	123916	2.4	8.4749	0.6	5.5827	1.0	0.3433	0.8	0.78	1902.5	12.9	1913.4	8.7	1925.3	11.3	1925.3	11.3	98.8
-18-27 Spot 69	389	79028	5.4	8.4744	0.7	5.2612	1.3	0.3235	1.1	0.85	1808.8	17.4	1862.6	11.1	1925.4	12.4	1925.4	12.4	93.8
-18-27 Spot 211	94	1399345	0.7	8.4625	0.8	5.2781	1.3	0.3241	1.1	0.81	1808.7	18.7	1865.3	11.1	1927.9	13.7	1927.9	13.7	93.9
-18-27 Spot 66	280	121472	2.4	8.4310	0.7	4.7332	2.4	0.2886	2.2	0.95	1638.3	32.5	1773.1	19.8	1934.6	13.0	1934.6	13.0	84.7
-18-27 Spot 138	218	43967	0.8	8.4295	0.5	5.7052	1.0	0.3489	0.8	0.86	1928.6	14.2	1932.2	8.6	1934.9	9.1	1934.9	9.1	99.7
-18-27 Spot 34	1178	469911	8.3	8.4048	0.4	5.0293	1.0	0.3067	0.9	0.91	1724.5	14.1	1824.3	8.7	1940.2	7.7	1940.2	7.7	88.9
-18-27 Spot 60	184	30436	2.7	8.3259	0.5	5.8759	0.8	0.3560	0.7	0.83	1958.3	11.6	1957.7	7.2	1957.0	8.2	1957.0	8.2	100.1
-18-27 Spot 238	624	92110	3.9	8.2674	0.6	5.5916	1.1	0.3354	1.0	0.87	1884.6	15.9	1914.8	9.7	1969.6	10.0	1969.6	10.0	94.7
-18-27 Spot 204	95	113796	2.1	8.2570	0.5	6.0795	1.0	0.3642	0.9	0.86	2002.2	15.0	1987.3	8.9	1971.8	9.4	1971.8	9.4	101.5
-18-27 Spot 269	251	38998	3.0	8.2387	0.5	5.9880	1.0	0.3580	0.9	0.89	1972.5	15.8	1974.1	9.1	1975.8	8.4	1975.8	8.4	99.8
-18-27 Spot 260	488	33481	1.4	8.2115	0.5	5.8620	1.2	0.3493	1.1	0.92	1931.1	18.8	1955.6	10.6	1981.7	8.5	1981.7	8.5	97.4
-18-27 Spot 112	111	54543	1.7	8.1724	0.5	5.5896	1.6	0.3314	1.6	0.96	1845.1	25.1	1914.3	14.0	1990.2	8.2	1990.2	8.2	92.7
-18-27 Spot 302	183	82491	1.7	8.1311	0.6	6.1285	1.1	0.3614	1.0	0.87	1989.0	16.9	1994.0	10.0	1999.2	10.1	1999.2	10.1	99.5
-18-27 Spot 312	149	42409	6.6	8.1042	0.6	5.9349	1.0	0.3490	0.8	0.82	1929.8	13.5	1968.4	8.6	2005.1	10.1	2005.1	10.1	96.2
-18-27 Spot 194	193	70230	3.5	8.1042	0.5	5.7388	1.1	0.3375	0.9	0.86	1874.4	14.6	1937.2	9.1	2005.1	9.7	2005.1	9.7	93.5
-18-27 Spot 207	162	35963	1.5	8.0819	0.5	6.0280	1.1	0.3594	1.0	0.88	1950.7	16.7	1979.6	9.8	2010.0	9.4	2010.0	9.4	97.1
-18-27 Spot 121	210	49696	2.4	8.0803	0.4	6.1583	0.9	0.3611	0.8	0.87	1987.2	13.0	1988.5	7.7	2010.3	7.7	2010.3	7.7	98.9
-18-27 Spot 88	217	79105	2.9	8.0798	0.7	6.0611	1.2	0.3553	1.0	0.84	1960.0	17.2	1984.7	10.5	2010.4	11.7	2010.4	11.7	97.5
-18-27 Spot 149	580	142195	2.1	8.0787	0.5	5.9850	1.0	0.3508	0.9	0.86	1938.6	15.1	1973.7	9.1	2010.7	9.4	2010.7	9.4	96.4
-18-27 Spot 236	508	208244	1.7	8.0556	0.6	6.1955	1.5	0.3621	1.3	0.90	1992.2	22.7	2003.8	12.9	2015.7	11.3	2015.7	11.3	98.8
-18-27 Spot 283	273	166887	2.7	7.9617	0.6	6.5503	1.0	0.3779	0.9	0.88	2066.6	15.9	2052.7	9.0	2038.7	8.7	2038.7	8.7	101.4
-18-27 Spot 268	73	37031	1.4	7.9134	0.6	6.1888	1.1	0.3553	1.0	0.85	1960.1	16.1	2002.8	9.8	2047.3	10.6	2047.3	10.6	95.7
-18-27 Spot 136	131	40005	2.1	7.2758	0.6	7.6046	1.0	0.4015	0.9	0.85	2175.8	16.2	2185.4	9.3	2194.4	9.6	2194.4	9.6	99.1
-18-27 Spot 307	158	86430	1.8	6.2553	0.5	9.9048	0.8	0.4496	0.7	0.81	2393.3	13.6	2426.0	7.7	2453.5	8.3	2453.5	8.3	97.5
-18-27 Spot 185	280	51780	7.1	6.2427	0.6	10.3374	1.1	0.4682	1.0	0.86	2475.9	20.1	2465.5	10.5	2466.9	9.7	2466.9	9.7	100.8
-18-27 Spot 146	448	353760	2.3	6.1428	0.4	10.3625	0.9	0.4619	0.8	0.89	2447.8	17.3	2467.7	8.8	2484.1	7.2	2484.1	7.2	98.5
-18-27 Spot 290	131	37319	2.1	6.1399	0.7	9.4887	1.5	0.4226	1.3	0.88	2272.4	25.4	2386.3	13.8	2484.9	11.8	2484.9	11.8	91.4
-18-27 Spot 219	67	28236	0.6	6.1204	0.6	8.7501	1.2	0.4330	1.0	0.86	2319.2	19.4	2411.4	10.7	2490.3	10.2	2490.3	10.2	93.1
-18-27 Spot 110	109	413261	2.2	6.0851	0.6	10.6344	1.1	0.4685	0.9	0.83	2481.5	19.1	2491.7	10.4	2500.0	10.5	2500.0	10.5	99.3
-18-27 Spot 11	241	114184	2.1	5.9184	0.6	10.8726	1.2	0.4689	1.1	0.87	2489.9	21.8	2512.3	11.3	2546.7	10.0	2546.7	10.0	97.0
-18-27 Spot 48	96	48099	0.8	5.5940	0.4	10.2453	0.9	0.4151	0.8	0.88	2238.2	15.6	2457.2	8.6	2643.7	7.2	2643.7	7.2	84.7
-18-27 Spot 79	635	16392635	5.8	5.5026	0.4	12.1104	0.9	0.4835	0.8	0.88	2542.6	18.4	2613.0	8.4	2688.0	7.1	2688.0	7.1	95.3
-18-27 Spot 63	96	26772	0.8	5.4551	0.7	12.6315	1.2	0.5000	0.9	0.80	2613.7	19.9	2652.6	11.0	2682.4	11.7	2682.4	11.7	97.4
-18-27 Spot 53	152	20844	1.4	5.4214	0.5	13.0608	1.1	0.5138	1.0	0.88	2672.7	21.0	2684.1	10.3	2692.6	8.6	2692.6	8.6	99.3
-18-27 Spot 253	299	209287	0.9	5.4161	0.7	13.2426	1.1	0.5204	0.9	0.81	2700.9	20.4	2697.1	10.7	2694.2	10.9	2694.2	10.9	100.2
-18-27 Spot 113	176	128843	0.6	5.4150	0.5	12.8141	1.0	0.5035	0.8	0.84	2628.7	17.5	2666.1	9.1	2694.5	8.5	2694.5	8.5	97.6
-18-27 Spot 195	201	42993	1.0	5.4052	0.7	13.0445	1.1	0.5116	0.9	0.78	2663.4	18.9	2682.9	10.4	2697.5	11.3	2697.5	11.3	98.7
-18-27 Spot 251	87	238536	2.5	5.4035	0.5	12.4927	1.1	0.4988	1.0	0.89	2569.8	20.7	2642.2	10.3	2698.1	8.1	2698.1	8.1	95.2
-18-27 Spot 83	482	123505	0.8	5.3953	0.7	13.1504	1.4	0.5148	1.2	0.86	2677.1	25.7	2690.5	12.9	2700.6	11.6	2700.6	11.6	99.1
-18-27 Spot 162	186	336579	0.4	5.3918	0.5	12.8992	0.9	0.5046	0.7	0.82	2633.7	15.6	2672.3	8.3	2701.6	8.3	2701.6	8.3	97.5
-18-27 Spot 108	153	24880	1.3	5.3731	0.5	11.7285	1.0	0.4573	0.9	0.86	2427.4	17.8	2583.0	9.5	2707.4	8.4	2707.4	8.4	89.7
-18-27 Spot 222	145	31213	0.8	5.3644	0.6	13.1345	1.2	0.5112	1.0	0.86	2661.9	22.9	2689.4	11.8	2710.1	10.4	2710.1	10.4	98.2
-18-27 Spot 116	283	3198056	3.3	5.3587	0.5	13.2363	1.1	0.5146	0.9	0.88	2678.3	20.7	2696.6	10.1	2711.8	8.3	2711.8	8.3	98.7
-18-27 Spot 21	372	643541	1.7	5.3407	0.5	12.9814	1.3	0.5030	1.2	0.92	2628.9	26.5	2678.3	12.8	2717.4	8.9	2717.4	8.9	98.7
-18-27 Spot 41	47	28144	4.0	5.3137	0.6	14.0448	1.3	0.5415	1.1	0.89	2789.7	25.3	2752.7	11.9	2725.7	9.5	2725.7	9.5	102.3
-18-27 Spot 12	87	12472	0.7	5.2943	0.7	12.8887	1.2	0.4951	1.0	0.84	2592.8	21.8	2671.6	11.4	2731.7	10.7	2731.7	10.7	94.9
-18-27 Spot 59	79	18547	0.9	5.2930	0.5	13.1487	1.0	0.5080	0.8	0.83	2635.2	17.2	2690.4	9.0	2732.1	8.8	2732.1	8.8	96.5
-18-27 Spot 67	372	69914	5.0	5.2759	0.9	13.1818	1.4	0.5046	1.0	0.71	2633.6	20.9	2692.8	12.8	2737.5	15.6	2737.5	15.6	96.2
-18-27 Spot 50	142	248404	1.2	5.2641	0.7	13.8639	1.1	0.5219	0.9	0.80	2707.2	19.5	2726.7	10.4	2741.1	10.7	2741.1	10.7	98.8
-18-27 Spot 286	549	6114134	4.1	5.2360	0.5	13.5592	1.1	0.5151	1.0	0.90	2678.5	21.6	2719.4	10.4	2749.9	7.9	2749.9	7.9	97.4
-18-27 Spot 131	186	48575	1.2	5.2253	0.5	13.5192	1.0	0.5126	0.8	0.87	2667.6	18.1	2716.6	9.0	2753.3	7.8	2753.3	7.8	96.9
-18-27 Spot 237	43	30177	1.3	5.2158	0.7	13.6807	1.1	0.5177	0.8	0.73	2689.6	16.8	2727.9	10.0	2756.3	11.9	2756.3	11.9	97.6
-18-27 Spot 297	472	182022	2.6	5.1909	0.5	11.9127	1.8	0.4487	1.7	0.95	2389.4	33.7	2597.6	16.5	2764.1	8.6	2764.1	8.6	86.4
-18-27 Spot 296	444	173961	3.8	5.1904	0.6	14.0529	1.2	0.5292	1.0	0.84	2738.2	21.6	2753.3	11.0	2764.3	10.4	2764.3	10.4	99.1
-18-27 Spot 123	1282	158399	5.4	5.1883	0.4	12.4419	0.8	0.4884	0.7	0.85	2476.5	14.0	2638.4	7.8	2765.0	7.0	2765.0	7.0	89.6
-18-27 Spot 106	107	205352	1.2	5.1867	0.7	13.5781	1.2	0.5110	1.0	0.83	2680.9	21.2	2720.7	11.1	2765.5	10.8	2765.5	10.8	96.2
-18-27 Spot 73	115	32037	3.8	5.1560	0.6	14.8990	1.2	0.5499	1.0	0.86	2824.8	23.7	2796.0	11.4	2775.2	9.9	2775.2	9.9	101.8
-18-27 Spot 240	152	59654	1.3	5.1537	0.6	14.4089	1.0	0.5387	0.8	0.77	2778.2	17.4	2778.9	9.5	2775.9	10.6	2775.9	10.6	100.1
-18-27 Spot 258	156	273557	1.0	5.1445	0.7	14.3283	1.1	0.5348	0.9	0.77	2761.5	19.6	2771.6	10.8	2778.9	11.9	2778.9	11.9	99.4
-18-27 Spot 241	342	228902	3.9	5.1438	0.5	13.4652	1.1	0.5026	1.0	0.88	2624.9	20.6	2712.8	10.3	2779.1	8.5	2779.1	8.5	94.4
-18-27 Spot 285	265	214338	21.3	5.1271	0.5	14.5414	0.9	0.5410	0.8	0.87	2787.5	18.7	2785.7	9.0	2784.4	7.8	2784.4	7.8	100.1
-18-27 Spot 130	276	79835	2.2	5.1234	0.5	14.6160	1.1	0.5433	1.0	0.88	2797.4	21.9</							