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SURVEY PROGRAM

on the

RED MOUNTAIN AND SARAH PROPERTIES

SKEENA MINING DIVISION

LOCATED

8 KM NORTHWEST OF MT. ANDREAS VOGT BRITISH COLUMBIA

CENTRED ON

LATITUDE: 55 57' NORTH LONGITUDE: 129 42' WEST

NTS 103P/13 AND 104A/4

OWNER

LAC MINERALS LTD.

OPERATOR

LAC MINERALS LTD.

REPORT BY

ADRIAN D. BRAY

DATE: 06/11/92

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SUMMARY

1992 SURVEY PROGRAM ON THE RED MOUNTAIN AND SARAH PROPERTIES

The Red Mountain and Sarah properties are located approximately eight and seventeen kilometres northwest, respectively, from Mt. Andreas Vogt. The properties are situated in Stikinia Terrane and are underlain by volcanic and sedimentary rocks of the Lower Jurassic Hazelton Group. Several dykes and plutons of Tertiary, Jurassic and undetermined age intrude the volcanic and sedimentary sequences.

A survey program was conducted by LAC Minerals Ltd. on the Red Mountain and Sarah properties between July 7th and September 18th, 1992. The Red Mountain program consisted of detailed surveying and establishment of a semi-permanent northwest-trending grid over the main Marc Zone gold mineralization. Additional, less detailed survey was conducted over the remaining portion of Red Mountain. Surrounding claims, including the Sarah property, were surveyed for future detailed aerial photography.

The 1992 survey program allowed for detailed control points over the Red Mountain gold mineralization to be established. All survey control points should be digitized into the existing Red Mountain database. New vertical drill sections, plans and geological maps should be generated to include the detailed survey data. Additional survey control points surrounding Red Mountain will allow for future detailed aerial photography.

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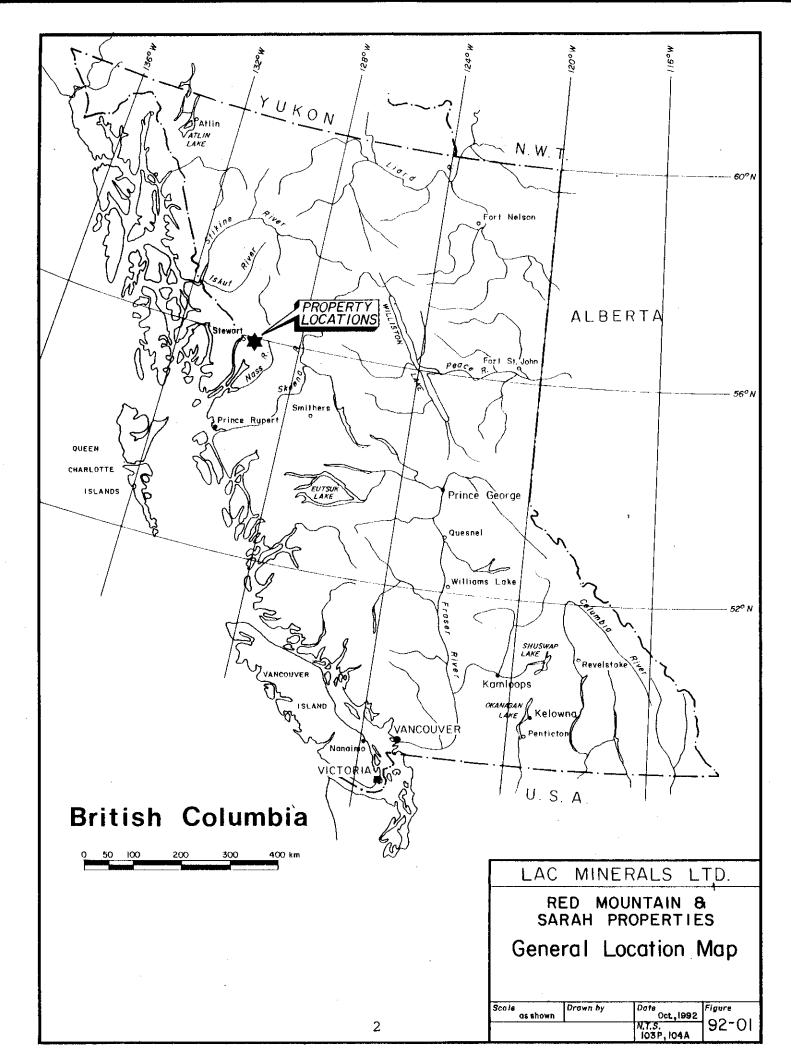
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1.0 INTRODUCTION

The Red Mountain and Sarah properties are located at the eastern flank of the Coast Mountains approximately fifteen and twenty kilometres northeast of Stewart, British Columbia (Figure 92-01), respectively. The nearest paved highway, # 37A, is approximately sixteen kilometres northwest of the Red Mountain property and seven kilometres north of the Sarah property. Access to the properties was gained by helicopter from the port town of Stewart. Extensions and upgrading of an existing logging road running south from Highway # 37A up the Bitter Creek Valley could provide future road access.

The Red Mountain property, centred on latitude 56 57' North and longitude 129 42' West, and the Sarah property, centred on latitude 56 02' North and longitude 129 45' West, cover rugged mountainous terrain with elevations ranging from 655 to 2150 metres above sea level. The slopes are mostly steep to precipitous, making the use of technical mountaineering techniques necessary in some locations. Occurrences of snow and debris avalanches are common, both in the Bitter Creek Valley and Red Mountain cirque.

Western hemlock is the dominant tree, while Sitka spruce, amabilis fir and black cotton wood are common subdominants. Common shrubs along valley bottoms include mountain alder, willows, red-osier dogwood, red elderberry, raspberry, devils



club, mountain maple and thimbleberry. Mountain alder is a widespread species on avalanche slopes and recently deglaciated terrain. The subalpine mountain hemlock zone occurs from about 900 to 1350 metres. Alpine vegetation occurs intermittently between 1350 and 1600 metre levels, giving way to bare rock at higher elevations. Avalanche paths are commonly overgrown by an impassable cover of slide alder.

Wildlife consists of mountain goats, grizzly and black bears, wolverines, wolves, marmots, martens and ptarmigans.

The area has a coastal climate regime. Snowfall is heavy due to high elevations, northern latitude and proximity to the ocean. In the Stewart area, mean annual snowfall ranges from 520 centimetres at sea level and 1500 centimetres at 460 metres elevation (Bear Pass), and up to 2250 centimetres at an elevation of 915 metres (Tide Lake Flats).

1.1 PROPERTY STATUS

The LAC Minerals Ltd. 100%-owned Red Mountain and Sarah properties are located within the Skeena Mining Division of British Columbia. The two properties cover 549 mineral units within 32 claims. Relevant claim information is summarized in Tables 1 and 2. Figures 92-02 and 92-02A show the location and disposition of the claims, respectively.

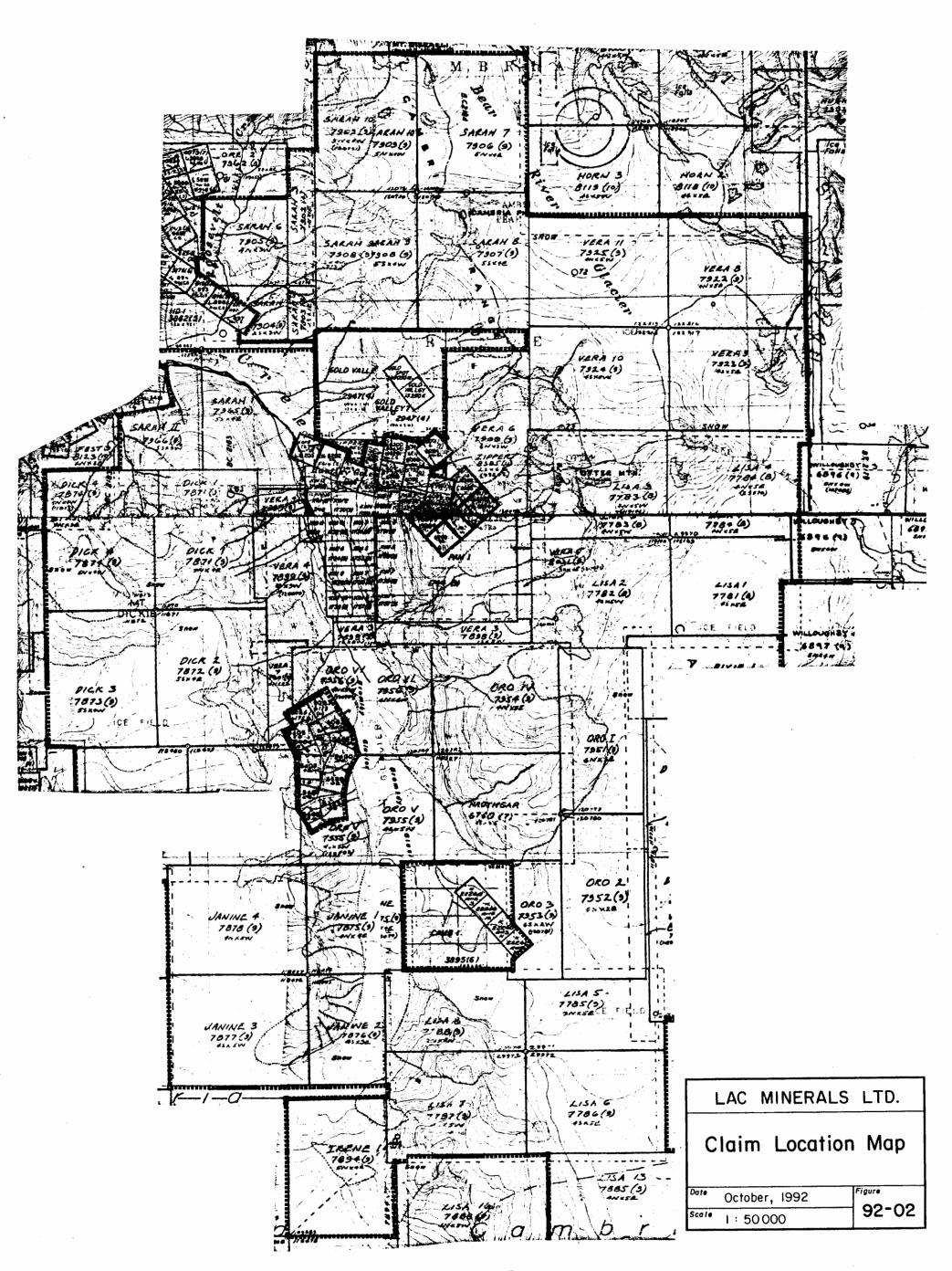


TABLE 1

RED MOUNTAIN PROPERTY STATUS SUMMARY

CLAIM NAME	TITLE NO.	UNITS/HECTARES	RECORD DATE
DICK 1	253078	20/500	09/09/89
DICK 2	253079	20/500	09/09/89
DICK 3	253080	20/500	09/09/89
DICK 4	253081	20/500	09/09/89
HROTHGAR	252212	20/500	11/07/88
IRENE 1	253101	20/500	16/09/89
JANINE 1	253082	16/400	08/09/89
JANINE 3	253084	20/500	08/09/89
LISA 1	252990	20/500	12/08/89
LISA 2	252991	20/500	12/08/89
LISA 4	252993	20/500	12/08/89
LISA 7	252996	20/500	12/08/89
LISA 8	252997	15/375	12/08/89
ORO 1	253158	18/450	16/09/89
ORO 2	253159	18/450	16/09/89
ORO 3	253160	12/300	16/09/89
ORO 4	253161	20/500	23/09/89
ORO 5	253162	20/500	23/09/89
ORO 6	253163	20/500	23/09/89
VERA 4	253106	18/450	16/09/89
VERA 7	253108	8/200	16/09/89
VERA 8	253129	20/500	24/09/89
VERA 9	253130	20/500	24/09/89
WILLOUGHBY 3	252217	20/500	21/09/88

445 UNITS/11,125 HECTARES

TABLE 2SARAH PROPERTY STATUS SUMMARY

CLAIM NAME	TITLE NO.	UNITS/HECTARES	RECORD DATE
SARAH 3	253109	6/150	15/09/89
SARAH 4 SARAH 5	253110 253111	2/50 4/100	15/09/89 15/09/89
SARAH 6	253112	12/300	15/09/89
SARAH 7 SARAH 8	253113 253114	20/500 20/500	15/09/89 15/09/89
SARAH 9 SARAH 10	253115 253116	20/500 20/500	15/09/89 15/09/89
TOTAL	10	04 UNITS/2,600 HECTAR	RES

Following limited gold exploration in the late 19th century and the early part of this century, the Red Mountain property was evaluated for molybdenum occurrences in the 1960's and 1970's. A molybdenum and native gold showing was discovered in 1965 on the south side of Red Mountain (Erin Stock showing, McAdam Point). Additional small molybdenum prospects were located during subsequent exploration programs in the central cirgue of Red Mountain.

Significant gold values were obtained in 1973 from Lost Mountain (R.H.S. claims), a nunatuk immediately south of Red Mountain and separated from the latter by the northern branch of Bromley Glacier. Gold here is associated with pyrite, galena and sphalerite, occurring in strike persistent narrow quartz veins within a sequence of black argillites.

Red Mountain remained unexplored for gold as it was mainly regarded as a setting for porphyry molybdenum mineralization. The reactivation of gold exploration in the area during the mid to late 1980's has focused on the Iskut and Sulphurets gold camps, and the surroundings of the historic Silbak-Premier mine. All of these areas are situated in geological environments similar to that of Red Mountain. The following summarizes exploration activities in the Red Mountain area:

- <u>1989:</u> Exploration for placer gold in the Bitter Creek area
- <u>1900:</u> Gold exploration in the upper reaches of Bitter Creek
- <u>1965:</u> Discovery of molybdenite mineralization and visible gold at McAdam Point (Erin Showing: MI103P/220). Rock sampling, geological mapping, hand trenching, diamond drilling (one 70 m AX hole).
- <u>1967:</u> Northgate Exploration Ltd.: geological mapping, geochemistry (263 samples analyzed for copper, molybdenum and zinc) and diamond drilling (613 m in 5 holes)
- 1976: Jack claims staked by J Howard (central and southern portion of Red Mountain), which were subsequently optioned to Zenore Resources Ltd.
- <u>1977/78:</u> Zenore Resources Ltd.: logging and re-sampling of the 1967 drill core for molybdenum. Geological mapping, rock geochemistry (analyzed for copper, molybdenum and gold). Petrographic study.
- <u>1978/80:</u> Falconbridge Nickel Mines Ltd.: reconnaissance program for porphyry copper-molybdenum targets in the Stewart area.
- 1988/89: Staking of the Red Mountain property by Wotan Resources
- 1989: Red Mountain property optioned to Bond Gold Canada Inc. (now LAC Minerals Ltd.). Discovery and drill testing of the Marc Zone (3,623 metres in 21 holes) and Brad Zone (1,107 metres in 6 holes) gold-silver mineralization. Geological mapping, trenching, rock geochemistry and 5,220 km airborne geophysical survey
- <u>1990:</u> Continued evaluation of Red Mountain by LAC Minerals Ltd. Diamond drilling (13,350 metres on Marc Zone and geophysical targets), ground geophysics, geological mapping and rock geochemistry. Baseline environmental study initiated.
- <u>1991:</u> Continued evaluation of Red Mountain by LAC Minerals Ltd. Diamond drilling of the Marc Zone (2,628 metres in 11 holes), geological mapping and rock geochemistry. Continuation of environmental base-line studies.
- <u>1992:</u> Detailed surveying and semi-permanent grid establishment over Red Mountain, and surrounding regional claim surveying for future detailed aerial photography (this report).

With the exception of a limited program by Bond Gold Canada Inc. (now LAC Minerals Ltd.) in 1991, no exploration is known from the Sarah property. The 1991 Bond Gold Canada Inc. exploration program consisted of 1:10,000 reconnaissance-style geological mapping and six lithogeochemical samples (Assessment Report # 21,942).

The 1992 program on the Sarah property consisted of establishing survey control points to be used for future detailed aerial photography.

GEOLOGY

The Red Mountain and Sarah properties are situated within a broad, north-northwest trending volcano-plutonic belt composed of Upper Triassic Stuhini Group and Upper Triassic to Lower - Middle Jurassic Hazelton Group. This belt has been termed the "Stewart Complex" by Grove (1986) and forms part of the Stikinia Terrane. The Stikinia Terrane together with the Cache Creek and Quesnel Terranes constitute the Intermontane Superterrane which is believed to have accreted to North America in Middle Jurassic time (Monger et al, 1982). To the west, the Stewart Complex is bordered by the Coast Plutonic Complex. Sedimentary rocks of the Middle to Upper Jurassic Bowser Lake Group overlay the complex to the east.

The Jurassic stratigraphy was established by Grove (1986) during regional mapping between 1964 and 1968. Formational subdivisions have been and are in the process of being modified and refined as a result of recent work being undertaken in the Stewart, Sulphurets, and Iskut areas by the Geological Survey Branch of the BCMEMPR (Alldrick, 1984, 1985, 1989), the Geological Survey of Canada (Anderson, 1989; Anderson and Thorkelson, 1990) and the Mineral Deposits Research Unit at the University of British Columbia. A sedimentological, stratigraphic, and structural synthesis is slowly emerging for this area.

The Hazelton Group represents an evolving (alkalic/calc-alkalic) island arc complex capped by a thick succession of turbidites (Bowser Lake Group). Grove (1986) subdivided the Hazelton Group into four litho-stratigraphic units (time intervals defined by Alldrick, 1987): the Upper Triassic to Lower Jurassic (Norian to Pliensbachian) Unuk River Formation, the Middle Jurassic Betty Creek (Pliensbachian to Toarcian) and Salmon River (Toarcian to Bajocian) Formations, and the Middle to Upper Jurassic (Bathonian to Oxfordian- Kimmeridigian) Nass Formation. Alldrick assigned formational status (Mt. Dilworth Formation) to a Toarcian rhyolite unit (Monitor Rhyolite) overlying the Betty Creek Formation. Rocks of the Salmon River Formation are transitional between the mostly volcanic Hazelton Group and the wholly sedimentary Bowser Lake Group and are presently treated either as the uppermost formation of the former or the basal formation of the latter (Anderson and Thorkelson, 1990). The Nass Formation has now been assigned to the Bowser Lake Group.

The Unuk River Formation, a thick sequence of andesitic flows and tuffs with minor interbedded sedimentary rocks, hosts several major gold deposits in the Stewart area. The unit is unconformably overlain by heterogeneous maroon to green, epiclastic volcanic conglomerates, breccias, greywackes and finer grained clastic rocks of the Betty Creek Formation. Felsic tuffs and tuff breccias characterize the Mt. Dilworth Formation. The Mt. Dilworth Formation represents the climactic and penultimate volcanic event

of the Hazelton Group volcanism and forms an important regional marker horizon. The overlying Salmon River Formation has been subdivided in the Iskut area into an Upper Lower Jurassic and a Lower Middle Jurassic member (Anderson and Thorkelson, 1990). The Upper member has been further subdivided into three north-trending facies belts: the eastern Troy Ridge facies (starved basin), the medial Eskay Creek facies (back-arc basin), and the western Snippaker Mountain facies (volcanic arc).

Sediments of the Bowser Lake Group rest conformably on the Hazelton Group rocks. They include shales, argillites, silt- and mudstones, greywackes and conglomerates. The contact between the Bowser Lake Group and the Hazelton Group passes between Strohn Creek in the north and White River in the south. The contact appears to be a thrust zone with Bowser Lake Group sediment "slices" occurring within, and overlying, the Hazelton Group pyroclastic rocks to the west.

Two main intrusive episodes occur in the Stewart area: a Lower Jurassic suite of dioritic to granodioritic porphyries (Texas Creek Suite) that is comagmatic with extrusive rocks of the Hazelton Group and an Upper Cretaceous to Early Tertiary intrusive complex (Coast Plutonic Complex and satellite intrusions). The Early Jurassic suite is characterized by the occurrence of coarse hornblende, orthoclase and plagioclase phenocrysts and, locally, potassium feldspar megacrysts.

The Eocene Hyder quartz-monzonite, comprising a main batholith, several smaller plugs, and a widespread dyke phase, represents the Coast Plutonic Complex.

Middle Cretaceous regional metamorphism (Alldrick et. al., 1987) is predominantly of the lower greenschist facies. This metamorphic event may be related to west-vergent compression and concomitant crustal thickening at the Intermontane - Insular superterrane boundary (Rubin et. al., 1990). Biotite hornfels zones are associated with a majority of the quartz monzonite and granodiorite stocks.

Recent structural studies by Evenchick (1991b) indicate that Bowser Basin strata are part of a regional Skeena fold and thrust belt. This tectonism developed between latest Jurassic and early Tertiary time and involved strata at least as young as Lower and Middle Jurassic Hazelton Group. This implies that the thrust faults of this belt have affected rocks of Stikinia, and may root in the Coast Plutonic Complex.

No significant deformation has been described for the interval between the deposition of the Hazelton and Bowser Lake Groups. Evenchick (1991b) concludes that folds in the Hazelton Group are likely to be the result of shortening during the formation of the Skeena fold belt.

MINERALIZATION

The Stewart Complex is the setting for the Stewart (Silbak-Premier, Big Missouri), Iskut (Snip, Johnny Mountain, Eskay Creek), Sulphurets, and Kitsault (Alice Arm) gold/silver mining camps. Mesothermal to epithermal, depth-persistent gold-silver veins form one of the most significant types of economic gold deposits. There is a spatial, as well as temporal, association of this gold mineralization with Lower Jurassic calc-alkaline intrusions and volcanic centres. These intrusions are often characterized by 1-2 cm-sized potassium feldspar megacrysts and correspond to the top of the Unuk River Formation.

The most prominent example of this type of deposit is the historic Silbak-Premier gold-silver mine which has produced 56,600 kg gold and 1,281,400 kg silver between 1918 and 1976. Current open pit reserves are 5.9 million tonnes grading 2.16 g Au/t and 80.23 g Ag/t (Randall, 1988). The ore is hosted by Unuk River Formation andesites and comagmatic Texas Creek porphyritic dacite sills and dikes. The ore bodies comprise a series of en echelon lenses developed over a strike length of 1,800 metres and through a vertical range of 600 metres (Grove, 1986; McDonald, 1988). The mineralization is controlled by northwesterly and northeasterly trending structures and their intersections, but also occurs locally concordant with andesitic flows and breccias. Two main vein types occur: silica-rich, low-sulphide precious metal veins and sulphide-rich base metal veins. The precious metal veins are

more prominent in the upper level of the deposit and contain polybasite, pyrargyrite, argentiferous tetrahedrite, native silver, Pyrite, sphalerite, chalcopyrite and electrum, and argentite. galena combined are generally less than 5%. The base metal veins crosscut the precious metal veins and increase in abundance with depth. They contain 25 to 45% combined pyrite, sphalerite, chalcopyrite and galena with minor amounts of pyrrhotite, silver. argentiferous tetrahedrite, native electrum and Quartz is the main gangue material, with lesser arsenopyrite. amounts of calcite, barite, and some adularia. Mineralization is associated with strong silicification, feldspathization, and pyritization. A temperature range of 250 to 260 degrees celsius has been determined for the deposition of the precious and base metals (McDonald, 1990).

The Eskay Creek gold deposits are underlain by Lower to Middle Jurassic volcanic and sedimentary rocks of the Hazelton Group. Mineralization occurs in two separate zones, the 21A zone and the The former shows epithermal deposit characteristics, 21B zone. latter shows volcanogenic massive while the sulphide characteristics. The 21A zone is a rhyolite-hosted, stockwork and disseminated sulphide suite containing stibnite +/- realgar +/orpiment +/- tetrahedrite +/- cinnabar. Vertical geochemical and mineralogical zonation indicates increasing temperatures and base metal content with depth. The 21B zone is a stratabound massive sulphide hosted by a graphitic argillite unit which overlies a

rhyolite unit. Gold mineralization occurs along with sphalerite, galena, tetrahedrite and Pb-sulfosalts. Probable reserves, using a 8.6 gram gold cut-off and a minimum 2 metre thickness, for the 21A and 21B zones have been published as 183,000 tonnes at 24.3 grams gold and 233.1 grams silver per ton, and 1,073,000 tonnes at 56.9 grams gold and 1,484.6 grams silver per ton, respectively (Blackwell, 1990).

Middle Eocene silver-lead-zinc veins are characterized by high silver to gold ratios and by spatial association with molybdenum and/or tungsten occurrences. They are structurally controlled and lie within north, northwest, and east-trending faults. This mineralization is less significant in economic terms.

Porphyry molybdenum deposits are associated with the Tertiary Alice Arm Intrusions, a belt of quartz-monzonite intrusions parallel to the eastern margin of the Coast Plutonic Complex. An example of this type of deposits is the B.C. Molybdenum Mine at Lime Creek.

3.0 RED MTN PROPERTY GEOLOGY, STRUCTURE & MINERALIZATION (FIGURES 92-03 to 92-05)

<u>GEOLOGY</u>

The only available published geological map that covers the Red Mountain property area is the 1:100,000 Unuk River-Salmon River-Anyox map by Grove (1986). According to Grove (1986) the property area is underlain by Lower to Middle Jurassic rocks of the Hazelton Group (Unuk River and Salmon River Formations) which have been intruded by Middle Jurassic and Early Tertiary stocks and dykes. The younger intrusive sequence forms part of the Coast Plutonic Complex.

The portion of the property located east of Bromley Glacier is underlain by rocks of the Lower Jurassic Unuk Formation. This formation consists of clastic sediments, volcanic breccias, crystal and lithic tuffs and limestones. Rocks of the Upper Jurassic Salmon River Formation, a sequence of fine to coarse-grained clastic sediments, limestones, rhyolites, and crystal and lithic tuffs are exposed west of Bromely Glacier (Oro V and VI claims). The Betty Creek and Mt. Dilworth Formations, which stratigraphically underlie the Salmon River Formation, appear to have been thinned out or eroded in the Red Mountain area.

Stratified rocks occupy the ridges and the southern and northern slopes at Red Mountain and consist of intermediate pyroclastics, finely banded, partially carbonaceous argillites and tuffaceous

sediments, and chert (units 1-5, 13 and 16). The strata generally strike northwest and dip steeply towards the southwest, but strike and dip are locally highly variable as a result of up-doming by a hornblende-feldspar porphyry (Goldslide Intrusion) and satellite intrusions. Top indicators within the tuffaceous sediments (load casts, graded bedding) indicate that the sequence is right side up.

A distinct volcanoclastic unit northeast of the Marc Zone at the edge of the Cambria Icefield consists of coarse limestone fragments in a fine-grained dacitic tuff. Due to finely disseminated pyrite within the matrix, the unit weathers to a rusty brown colour. A similar rock occurs at Lost Mountain, further to the south.

The volcano-sedimentary sequence appears to represent an intermediate to distal volcanic facies. The closest recognized Lower Jurassic volcanic centre is located in the Big Missouri-Premier area about 15 kilometres to the north (Alldrick, 1989).

A hypabbysal, hornblende-plagioclase porphyritic intrusion (Goldslide Intrusion, units 6 and 8) of granodiorite to diorite composition occupies the cirque as well as the western and eastern slopes of Red Mountain. The groundmass of the porphyry grades from weakly phaneritic at deeper levels to aphanitic at higher levels and closer to the country rock contact. Euhedral hornblende crystals constitute up to 25% of the rock and are up to 2.0 centimetres long. Plagioclase crystals are usually smaller than

2.0 mm and constitute up to 25% of the rock. The ratio of hornblende to plagioclase varies. A fine-grained and more equigranular phase of the intrusion is dominated by densely disseminated plagioclase. Phenocrysts of pyroxene, biotite, orthoclase and quartz are less abundant.

A wide contact zone occurs between the volcano-sedimentary package and the intrusion. This zone is strongly brecciated and contains argillite and/or pyroclastic rock fragments within an intrusive matrix. Quartz stockwork is locally developed within the border Weak to intense silicification, phase of this intrusion. sericitization and propylitization are associated with these quartz stockwork zones. extensive zone of pyritization and An sericitization surrounds the Goldslide Intrusion and is responsible for the gossaneous appearance of Red Mountain. A lower Jurassic date of 200 Ma has been determined on a hornblende sample (argonargon) for the Goldslide Intrusion.

A granodioritic to quartz-monzonitic intrusion, the Erin Stock (unit 12), is exposed at the southern tip of Red Mountain and appears to continue south under the Bromley Glacier onto Lost Mountain. The stock and associated aplitic dykes intrude a sequence of thinly bedded argillites, calcareous sediments and intermediate pyroclastics. The sediments have been extensively skarnified and hornfelsed. The stock itself is cut by a number of fine-grained basaltic dykes. A Lower Tertiary age of 45 +/- 2 Ma

has been determined from a biotite sample by argon-argon methods.

Several sets of dykes cut the sedimentary and pyroclastic rocks at

Red Mountain, and include:

a) potassium feldspar porphyritic dykes- light grey with subhedral feldspar crystal and quartz eyes in aphanitic matrix; mainly northeast trending; the appearance and relative age relationships indicate that these dykes may correlate with the Early Jurassic Texas Creek intrusive suite.

b) microdioritic dykes- green-grey, fine grained feldsparhornblende porphyritic, generally northwest trending and southwest dipping; plagioclase occurs as anhedral grains up to 1 mm, with hornblende as anhedral to prismatic crystals up to 1.5 mm.

c) lamprophyre dykes- green-grey, with minor vesicles and typically composed of green acicular hornblende and plagioclase in a dense matrix; these dykes have a northnorthwesterly trend and cut all other types of dykes; they appear to be related to the Oligocene-Miocene lamprophyre dyke suite known from the Stewart area.

STRUCTURE

The most prominent fold in the Red Mountain area is a large antiform with a north-northwest trending axis running from the Bromley Glacier north to Bear River. Grove (1986) recognized a fold in this same are which he described as a syncline. However, detailed mapping by Dihedral Exploration (1991) geologists show this structure to be an antiform. Most of the rocks on the east side of the Bromley Glacier dip steeply to the east and many of the rocks on the west side dip steeply to the west. Where tops indicators can be determined, most face outward. Rocks of the Upper Jurassic Salmon River Formation, a sequence of fine to coarse-grained clastic sediments and fossiliferous limestones, are exposed west of Bromley Glacier. The Betty Creek and Mount Dilworth Formations, which stratigraphically underlie the Salmon River, are not present in the Red Mountain area.

Discussions by Dihedral Exploration geologists with Anderson, Alldrick and Greig (pers. comm., 1991) lend support to the identification of the Salmon River Formation unit. This creates a problem with the structural interpretation as the sequence outwards from the centre of the fold is Salmon River then Unuk River Formation rocks. The correlations in the Red Mountain area are based largely on lithologic similarities. It is possible that the lithologic similarities are coincidental and that the apparent "Salmon River Formation: is in fact Triassic in age. If, however, the correlations are correct, then a major structural dislocation must be hypothesized in order to place younger rocks in the centre of the apparent antiform. It is possible that Unuk River Formation rocks have been thrust over Salmon River Formation rocks and that the resulting sequence was then warped into an antiform.

MINERALIZATION

Red Mountain is characterized by an extensive gossan, covering approximately 12 square kilometres. The property has attracted exploration activities for porphyry molybdenum-type targets in the 1960's. The molybdenite mineralization is controlled by northerly trending fractures along the northern contact of the Erin Stock (McAdam Point). The most significant mineralization is restricted

to within 25 metres of the contact and overall occurrences were judged as non-economic. An occurrence of visible gold with values up to 27.42 gAu/t over 0.91 metres, 30.85 gAu/t over 0.61 metres and 64.45 gAu/t over 0.61 metres have been mentioned for this area in reports from the 1960's. The exact location and mode of occurrence for this gold mineralization has not been reported.

The northern tip of Lost Mountain covers the southern contact of the Erin Stock. The molybdenite-bearing quartz veins extend likewise for only a limited distance from the southern contact of the Erin Stock into the skarn and hornfels. Significant gold and silver mineralization is associated with sphalerite, pyrite, pyrrhotite, galena and chalcopyrite within narrow quartz veins and occurs further south on Lost Mountain (Mandy, Middle, Handy and Andy veins). The veins are predominantly hosted by a sequence of carbonaceous argillites and have a northwesterly strike and dip steeply to the southwest.

No other occurrences of gold were known at Red Mountain prior to Bond Gold Canada Inc.'s (now LAC Minerals Ltd.) 1989 exploration program. Several gold showings were subsequently discovered during the 1989, 1990 and 1991 programs (Assessment Reports #20,133, #20,971 and #22,417, respectively), all of which are spatially related to the contact of the Goldslide Intrusion and the surrounding pyroclastic and sedimentary rocks. Mineralization occurs both within the intrusion as well as in the surrounding

country rocks.

The Marc Zone, located just south of the Red Mountain summit, is the most significant gold occurrence discovered on the property to date. The Marc Zone mineralization occurs as irregularly shaped sulphide lenses associated with the brecciated contact of the Goldslide Intrusion. Breccia fragments are strongly corroded and partly digested by the hydrothermal alteration. The hydrothermal alteration consists of strong to pervasive sericitization, moderate to strong pyritization, moderate chloritization and moderate silicification. The silicification reflects mainly an increase in modal quartz as a consequence of sericitization. Moderate to strong potassic alteration as well as albitization occur locally. The presence of tourmaline is restricted to silicified zones within the hornblende-feldspar porphyry intrusion.

Marc Zone mineralization consists of densely disseminated to massive (>60%) pyrite and/or pyrite stringers and veinlets, variable amounts of associated pyrrhotite and sphalerite as well as minor chalcopyrite, arsenopyrite, galena, tetrahedrite and various tellurides. Several phases of mineralization and deformation are indicated by the presence of different generations of pyrite as well as breccia fragments consisting of pyrite. High grade gold values are usually associated with the semi-massive, coarse-grained pyrite aggregates, but also occur with stockwork pyrite stringers and veinlets. Gold occurs as native gold, electrum and as

tellurides. Visible gold is rare.

Native gold, as observed in polished thin sections, ranges in size from 10 to 500 microns and occurs as threads, interstitial pockets, and partial networks within the pyrite as well as moulded on to the periphery of pyrite fragments within the gangue and altered wall rock. Hessite (Ag2Te), altaite (PbTe), petsite (Ag3AuTe2), calaverite (AuTe2), sylvanite (AuAgTe4), native tellurium, aurostibnite (AuSb), bournontite (PbCuSb3), hedleyite (?, Bi7Te3), native bismuth and bismuthinite (Bi7S3) contain a significant amount of the gold and are closely associated with native gold and electrum.

Continuous Marc Zone mineralization has been outlined between sections -0+25N and 1+25N. The most significant intersections were obtained from hole MC90.35 with a core interval of 55.5 metres yielding 12.08 gAu/t and from hole MC90.40 which yielded 36.37 qAu/t over 25.50 metres. In addition, Marc Zone style mineralization with values of up to 8.78 gAu/t over a core length of 18 metres was intersected in holes on sections 2+25N to 2+75N. A Marc Zone mineral inventory of 933,000 tonnes with a grade of 12.20 gAu/t (uncut) and 36.08 gAg/t has been calculated. Mineral inventory blocking was calculated using a 3 gram cut-off over a minimum width of 3 metres.

A UTEM geophysical zone (UTEM Zone) overlying the north end of the

Marc Zone is a silver-rich sphalerite and pyrrhotite zone with anomalous gold, lead and copper values. This zone was intersected in holes on sections 2+25N and 2+75N, up to 200 metres above Marc The mineralization consists of 5-8% Zone style mineralization. sphalerite, 3-5% pyrrhotite, 2-4% pyrite and traces of chalcopyrite. The sulphides occur as matrix fill, anastomosing stringers and fine laminae parallel to bedding within a moderately to highly brecciated sequence of tuffs. Values range up to 0.58 gAu/t, 69.22 gAg/t, 5.60% zinc, 0.47% lead and 0.06% copper over a core length of 9.0 metres. Silver/gold ratios for the UTEM zone are considerably higher (40 to > 100) than those for the Marc Zone gold mineralization (1-10).

GEOLOGY

The Sarah property is underlain by Early Jurassic Hazelton Group volcanic and sedimentary rocks which have been intruded by dykes and plutons of undetermined age.

Volcanic Rocks: The bulk of the volcanics (including pyroclastics and flows) in the map area do not contain mappable marker beds. As a result, the distinction between units is sometimes difficult. For example, the vapg and vapm units are differentiated by the colour of the rocks, However, with time it is clear that maroon colouration due to hematite content in the volcanics can vary down to centimetre scales. Thus, there are maroon volcanics included in the vapg unit and green volcaniclastics within the vapm unit. In fact, it is the presence of sedimentary structures in reworked maroon tuffs that distinguishes the vapm unit rocks. Each of the volcanic units is described as follows:

vapg - green andesitic pyroclasitcs. The vapg unit includes agglomerate (volcanic clasts > 64 mm), lapilli (clasts 2-64 mm), and coarse to fine ash tuff, crystal tuffs, and a subordinate percentage of green volcanic flows and maroon pyroclastics and flows. The agglomerates contain rounded to subangular volcanic clasts, most of which are of intermediate composition. A subordinate percentage of the clasts may be non-volcanic. Tuffs are often difficult to distinguish from very fine-grained flows, competency of crystals is the determining factor. Crystals other than plagioclase, whether euhedral or subhedral to anhedral, are rare. Outcrops of the vapg unit occur throughout the map area.

vamp - maroon andesitic pyroclastics. This unit includes maroon agglomerates, lapilli to fine ash tuffs, wackes, lithic sandstones,

siltstones and rare flows, and green pyroclastics and flows. The presence of rocks of volcanic material with sedimentary structures is the determining factor in identifying this unit. Cross-bedding, grading and channel features are common in the sedimentary interbeds, allowing for recognition of tops. Outcrops of the vapm unit occur on the northeastern and southwestern portions of Sarah 9 and Sarah 10, respectively.

vfpw - white to buff-weathering felsic (dacitic?) tuff. This unit is comprised dominantly of lapilli tuff (to pebble conglomerate), with less common agglomerate, conglomerate and coarse ash tuff. Clasts are primarily rounded to subrounded felsic igneous rocks, with minor angular to subrounded sedimentary clasts. The matrix is generally light to dark grey, fine-grained to aphanitic and very siliceous. Outcrops of the vfpw unit occur on the west central portion of the Sarah 7 claim.

vafg - green andesitic volcanic flows. The vafg unit is discriminated in areas where medium to dark green porphyritic andesite flows dominate. Crystals are generally 1-2 mm in size, and they are rarely anything other than plagioclase feldspar. Subordinate green pyroclastics may be included in this unit. Volcanic flows are uncommon in the region, so areas where they dominate may be significant with respect to facies relationships and distance from vents. Unfortunately, no flows are aerially extensive enough to utilize as marker beds in the stratigraphy. Outcrops of the vafg unit occur on the northwestern portion of the Sarah 9 claim.

vafm - maroon andesitic volcanic flows. Maroon feldsparporphyritic andesite with subordinate maroon or green pyroclastics. Similar to the vafg unit, but the groundmass is hematite-rich. Outcrops of the unit occur on the northwestern portion of the Sarah 7 claim.

vdf - dacitic flows. These rocks are quite rare, and are comprised of pale green to grey porphyritic flows. This unit is similar to the vafg unit, but the groundmass is lighter in colour. The dacite flow on the Sarah 3 claim contains about 5% 3-5 mm hornblende phenocrysts and up to 2% 1-2 mm epidote phenocrysts.

<u>Sedimentary Rocks</u>: Sedimentary rocks on the claim group have been

divided into three units, described as follows:

ssw - siltstone and wacke. Thinly-bedded, dark grey to black siltstones and minor fine-grained grey to pale green wacke. These rocks are turbidite-derived, although the Bouma sequences have not been defined. The ssw unit occurs on the northeastern corner of the Sarah 5 claim. **swbr** - brown weathering wackes and tuffs. Brown or grey weathering, coarse-grained wackes, sandstones and conglomerates with minor siltstone and limestone. This unit usually occurs within volcanic-dominant sections. The unit resembles some of the other sedimentary units, but the following are characteristic for the unit: the sediments are interbeds in dominantly volcanic units and non-siltstone sediments predominate. This unit occurs predominately on the Sarah 9 claim, where they are notably brown on their weathering surfaces, with smaller outcrop areas on the Sarah 7 and Sarah 10 claims.

svbl - black sediments and volcanics. These rocks are characterized by a black matrix, most likely due to a high carbon content. Southwest of Cambria Peak, on the Sarah 9 claim, they have a brown weathering surface which makes a visual distinction between the svbl and swbr units difficult. The svbl unit includes tuffs, flows, conglomerates and siltstones.

<u>Plutonic Rocks</u>: Two plutonic rock types are recognized on the

property, and are described as follows:

Tid - felsic to intermediate dykes of probable Tertiary age. These dykes occur on the Sarah 8 claim.

ip - a felsic to intermediate pluton of undetermined age located on the northwestern portion of the Sarah 10 claim.

MINERALIZATION

Mineralization on the Sarah property consists of disseminated pyrite and locally chalcopyrite. Three samples collected in 1991 returned anomalous silver with good correlation to elevated lead and arsenic. All of the samples assayed background values for gold.

4.0 1992 SURVEY PROGRAM (FIGURES 92-07i to 92-07iv, 92-07A to 92-07E)

All surveying on the Red Mountain and Sarah properties was conducted using SOKKISHA Set 4 electronic total station. Survey data (survey point UTM coordinates and elevations) is provided in Appendix A. Instrument specifications are listed in Appendix B.

A detailed northwest-trending UTM grid consisting of fifteen one hundred metre-spaced survey lines was established south of the Red Mountain summit. Survey lines are approximately one kilometre in length with 50 metre station spacings. Semi-permanent station spacings were marked by orange pitons, each with an aluminum tag denoting the station location. Station location survey accuracy varies from 1/60,000 to 1/150,000, with vertical closures varying between 1 and 3 centimetres. The detailed UTM survey grid covers the main Marc Zone gold mineralization and immediate surrounding Additional, less densely-spaced survey points were areas. established throughout Red Mountain proper (Oro I to Oro VI Figure 92-07 illustrates the Red Mountain property claims). surveying at a 1:10,000 regional scale. Figures 92-07A to 92-07E illustrate Red Mountain detailed surveying in five 1:2,500 scale map sheets.

Topographic points on claims surrounding Red Mountain, including the Sarah property, were surveyed and marked by rock cairns for future detailed aerial photography.

5.0 CONCLUSIONS AND RECOMMENDATIONS

The 1992 Red Mountain property program consisted of detailed surveying and establishment of a semi-permanent northwest-trending grid over the main Marc Zone gold mineralization. Additional, less detailed survey was conducted over the remaining portion of Red Mountain. Surrounding regional claims, including the Sarah property, were surveyed for future detailed aerial photography.

The 1992 survey program allowed for detailed control points over the Red Mountain gold mineralization to be established. All survey control points should be digitized into the existing Red Mountain database. New vertical drill sections, plans and geological maps should be generated to include the detailed survey data. Additional survey control points surrounding Red Mountain will allow for future detailed aerial photography.

6.0 COST STATEMENT

EXPENDITURE TYPE

TOTAL

\$

Salaries	10,640
Vehicle Rental and Expenses	250
Camp Expenses	4,500
Aircraft Charter Rotary	10,640
Postage, Courier and Shipping	200
Office Supplies	50
Reproduction, Drafting, Photos and Maps	200
Telephone and Fax	50
Survey Equipment Rental	4,720
Supplies	650
Report Preparation (Estimate)	500

Total

\$

32,400

7.0 CERTIFICATE OF QUALIFICATIONS

I, Adrian Dana Bray, of 1041 Comox St. Apt. 46, Vancouver B.C., do hereby certify that:

- I have studied Geology at Acadia University in Wolfville, Nova Scotia and have received a Bachelor of Sciences degree with Honours in Geology in October of 1986.
- 2. I am an associate member in good standing of the Geological Association of Canada.
- 3. I have continuously practised my profession since graduation in Nova Scotia, Ontario, Quebec and British Columbia.
- 4. I am employed by LAC Minerals Ltd.
- 5. The statements in this report are based on office compilation on the Red Mountain and Sarah properties. The field work was conducted from July 7th to September 18th, 1992. I have personally conducted or supervised the work described in this report.

Dated at Vancouver this 6th day of November, 1992.

Alcien Do Bru ADRIAN D. BRA

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APPENDIX A

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SURVEY DATA

SURVEY.UTM

TP-OTTER 6203101.7580 450536.4000 1993.2390 TP-CAM 6202763.3040 456381.4570 2158.7600 **TP114** 6203794.2499 456765.2126 2144.9870 **TX18** 6204226.3116 457246.8779 2059.5400 **TP115** 6204078.5604 456261.0861 2146.8950 **TX17** 6205167.7036 455949.7023 2014.0910 **TP116** 6206120.5407 455800.1384 2073.8060 **TP117** 6206641.2873 455678.3787 2156.5860 **TP118** 6206286.8903 456326.8897 2275.1430 TX20 6206655.4173 455645.9864 2146.0720 **TP119** 6206193.7704 457079.9230 2358.8920 TX20A 6206270.6876 456334.6841 2271.5760 **TP120** 6205551.5190 457881.2231 2226.9530 **TX19** 6206990.5361 457915.1714 2434.1820 **TP30** 6202792.6548 455998.9254 2066.1060

TP90 6202905.7469 455871.3573 2007.6350 **TP221** 6203960.9303 455584.6307 1849.2790 **TP222** 6204911.9120 455150.8970 1641.5250 **TX16** 6205672.7949 454149.1546 1477.4540 **TX21** 6207249.3015 454151.2874 1500.4390 **TP232** 6207753.1657 453625.4816 1459.3270 **TP233** 6208029.8672 453733.9415 1511.4720 **TP234** 6209438.0043 453432.8327 1564.3210 **TP235** 6210252.8078 453176.7795 1667.7050 **TP236** 6211164.4972 452400.0059 1578.8500 **TP237** 6211362.5551 453677.7868 1931.9900 **TP238** 6210698.0472 454289.1361 2083.4880 **TX29** 6211569.2283 454949.1366 2442.7500 **TP239** 6210036.0288 454933.7392 1991.2790 **TP240** 6210840.8993 454999.2351 2186.5750 **TX27** 6209301.7091 455701.2641 2391.8060 **TP241** 6210935.8454 455951.3618 2019.6470 **TX28** 6211341.6491 457310.0540 1934.2000 **TP242** 6211164.8694 451924.8461 1390.5060 **TX30** 6211455.2761 450683.8576 701.7500 **TP243** 6212665.9274 451546.5512 1089.1280 **TP244** 6212501.4238 450167.9604 1372.7160 **TP245** 6212145.5349 450077.6652 1338.8110 **TP246** 6211656.1190 449455.1523 0.0000 **TP257** 6212572.5456 450144.7521 1380.2960 **TP258** 6212495.0991 449524.1861 1592.1860 **TP259** 6213053.2793 448616.2914 1689.9530 **TP260** 6212369.0391 448086.3204 1630.3930 **TP261** 6212383.3419 446549.3009 1249.5560 **TX31** 6211064.5753 447001.4028 1606.4770

TP108 6203950.5897 449419.4026 1727.9140 **TP108A** 6203096.1086 448770.7162 1629.8180 **TX13** 6202344.5942 448276.9576 1607.4760 **TP109** 6202109.8941 450951.6713 2018.3870 **TP110** 6201191.5526 451540.6528 1874.3770 **TP111** 6200010.0561 451141.4386 1922.6990 **TP112** 6198231.5958 451679.2551 1929.7970 **TP113** 6197762.0001 451788.7847 1958.8920 TX7 6197658.7295 451815.7300 1961.1470 TP262 6204712.0163 449738.0973 1973.0460 **TP263** 6205086.3428 448393.6754 1820.8190 **TP264** 6206260.0962 447207.8135 1623.8930 TX23 6206516.8507 447001.2117 1522.9410 **TP265** 6206251.3267 445656.4403 1271.5760 TX24 6207268.8587 444610.7644 944.3670

TP41 6201721.8441 456746.8299 1854.9140 **TP14** 6202346.3009 456734.4272 1855.5000 **TP44** 6202473.7464 456176.9442 1988.5380 **TP42** 6202457.3993 455964.6798 1974.0570 **TP49** 6201884.1389 456406.4902 1682.1620 TP88 6201310.1907 455691.3724 1469.7640 **TP201** 6201307.6372 455221.0903 1475.2330 **TP202** 6201191.4547 455380.5193 1447.9160 **TP203** 6201052.9914 455438.8682 1485.8050 **TP224** 6201275.4907 454941.1489 1373.5010 **TP223** 6200938.7252 454868.4268 1257.8260 **TP104** 6201089.3361 454264.4255 1036.8080 **TP103** 6199593.1705 454551.2419 915.4980 **TP225** 6201457.6575 454048.8221 1030.2020 **TX11** 6202872.3837 453927.8848 795.9520

TP226 6203449.0197 453436.1890 754.1060 **TX15** 6204619.8299 452483.7808 524.9400 **TP227** 6206023.8856 452017.5190 352.7720 **TP228** 6206891.1387 451752.7135 339.1170 TX22 6207651.8384 451511.7667 331.8800 **TP229** 6208870.1530 450948.7478 441.0140 **TP230** 6208949.5398 449533.9243 273.0220 **TP231** 6208965.0858 449046.5092 259.2600 **TP231A** 6209106.7407 448768.9793 253.2100 TX26 6209056.2503 448728.0754 252.9400 **TP248** 6209035.6559 448367.8479 252.8410 **TP249** 6208808.6684 448335.1746 296.3530 **TP250** 6208774.9302 447749.0448 229.1470 **TP251** 6207838.6396 446443.0340 440.7980 **TP252** 6208211.3299 446489.4212 272.6130

TP253 6208535.4638 445242.3641 172.9620 **TP254** 6208695.6576 445090.0379 168.8190 **TX25** 6208644.5439 445116.6707 166.7530 **TP255** 6208864.8476 444720.1467 162.7310 **TP256** 6208861.4584 444453.4343 160.7320 **TP283** 6209133.4723 444269.7120 153.3640 **TP284** 6209561.1166 444045.3961 146.7440 **TP285** 6209779.1835 443989.5756 144.9930 **TP286** 6209987.3838 443951.1308 141.5870 **TP287** 6210348.1650 443781.1288 139.7190 **TP288** 6210528.7229 443332.0667 127.9990 **TP289** 6210772.9486 442627.5228 118.0850 **TP290** 6210807.7967 442592.1852 116.9510 **TX32** 6211114.2952 442574.0755 117.3160 **TP291** 6210465.5988 443205.3142 128.5640

TP292 6210246.0551 443027.0120 124.3290 **TP293** 6209904.1320 442618.4670 108.6370 **TP294** 6209385.3700 442239.7147 99.6720 **TP295** 6208718.1707 442068.7068 93.1660 **TX33** 6208901.8318 442041.6253 94.1570 **TP296** 6207966.8422 441777.4197 88.7300 **TP297** 6207105.0313 441570.2110 81.3490 **TP298** 6206346.2110 441388.1344 75.5390 **TP299** 6206358.8770 441137.6364 80.9450 **TX34** 6206575.2820 441149.0914 75.5330 T-BOND-00 6202517.1072 456731.0347 1941.2600 T-GRD45-00 6198186.0794 453990.9940 0.0000 **TP43** 6202278.6193 455925.7845 0.0000 **TP55** 6200887.9134 455840.0360 0.0000 TP22 6202252.9600 455532.3830 1820.2540

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TP45 6201804.1336 456745.1815 0.0000 TP46 6202232.2734 456736.6920 0.0000 **TP34** 6201712.1463 456807.6396 0.0000 TP47 6201516.6681 456518.0771 0.0000 **TP52** 6201932.9762 456952.6731 0.0000 **TP303** 6202711.2470 456816.6110 0.0000 TP20 6202735.8445 456729.8172 0.0000 TP-RED1 6202722.2479 456439.0012 0.0000 **TP54** 6200876.6972 456169.7164 0.0000 TP-LCP-OR 6200678.7073 456499.6026 0.0000 TP56 6200427.2209 455917.3709 0.0000 **TP57** 6200345.1496 455730.1652 0.0000 **TP59** 6200202.8743 455399.4734 0.0000 **TP58** 6200200.4293 455533.0116 0.0000 **TP64** 6200746.6900 455386.2550 0.0000

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2038.0000 MC92-73 6202636.9822 456428.7657 2062.2940 MC92-74 6202637.2202 456429.1596 2062.4040 MC92-75 6202697.6546 456384.7645 2122.0320 MC92-76 6202410.6268 456593.5372 1871.8420 MC92-77 6202697.3741 456384.5345 2121.9160 MC92-78 6202697.4957 456384.4152 2121.9750 MC92-79 6202819.4705 456363.2300 2151.6000 MC92-80 6202600.9529 457284.7160 -135.8400MC92-81 6202601.3424 457283.3637 -135.5520 MC92-82 6202600.7219 457284.5240 -135.8110MC92-83 6202599.9537 457285.3174 -136.3260 **TP48** 6202782.3907 456524.5315 2142.0580 TX1 6200679.9292 456498.8401 0.0000 TX2 6200211.1702 456272.1118 0.0000 **TP101** 6200426.1217 456471.3147

0.0000 **TP102** 6200068.3287 456928.2869 0.0000 **TP84** 6201089.7557 456688.5533 0.0000 **TP85** 6201170.6535 456898.6346 0.0000 тх3 6200252.8966 457175.8506 0.0000 TX4 6198593.6564 456960.7680 0.0000 **TP72** 6201517.1539 456881.0539 0.0000 TP73 6201648.8985 456962.2645 0.0000 **TP74** 6201513.6508 456902.7103 0.0000 TP75 6201670.3500 457104.0209 0.0000 TP76 6201480.0548 457100.8259 0.0000 **TP77** 6201348.9896 456996.4719 0.0000 **TP78** 6201313.8316 456824.0265 0.0000 **TP79** 6201276.3093 456671.8032 0.0000 **TP80** 6201240.3625 456403.3213 0.0000 **TP81** 6201087.0336 456265.6857

0.0000 **TP82** 6201003.3199 456143.1236 0.0000 **TP83** 6201053.7324 456570.5084 0.0000 **TP86** 6201321.7197 456107.1743 0.0000 **TP87** 6201148.0924 455983.2079 0.0000 **TP89** 6201020.4563 455781.4235 0.0000 **TP99** 6202171.9466 455354.7202 0.0000 **TP91** 6202848.7832 455681.7618 0.0000 T-RB-STA1 6202916.7332 455910.8372 0.0000 T-91G1 6202906.4991 455874.5704 0.0000 T-R92B 6203027.7266 455926.6098 0.0000 **TP92** 6202984.0584 455987.8823 0.0000 **T-R92C** 6203067.3276 455945.6456 0.0000 T-H1A 6202960.3698 455772.9279 0.0000 TP93 6203090.3939 455906.1914 0.0000 **TP94** 6202969.0492 455708.2548

0.0000 T-H2A 6202959.4316 455651.2630 0.0000 T-R92L1 6202447.9100 455502.7429 1854.2740 **TP95** 6203190.1388 455587.4760 0.0000 TP96 6203291.1491 455503.5961 0.0000 **TP97** 6203368.6083 455471.8471 0.0000 **TP98** 6202515.5954 455135.4355 0.0000 TX9 6202412.4494 457305.3320 0.0000 TX5 6200177.8386 454892.8436 0.0000 TX6 6200046.2093 453729.5918 0.0000 **TP105** 6198868.0046 455098.1753 0.0000 **TP106** 6198256.9844 454766.9253 0.0000 **TP107** 6197020.2573 454392.6664 0.0000 **TP206** 6201429.1622 455567.8268 0.0000 **TP205** 6201182.8305 455818.2733 0.0000 **TP204** 6201091.5176 455584.7118 0.0000 TP207 6201270.0991 455515.2048 0.0000 TP208 6201415.6715 455210.8688 0.0000 TP209 6201214.1390 455173.7183 0.0000

SURVEY1.DAT

TP-OTTER 6203101.5220 450540.4730 1993.2390 TP-CAM 6202763.3040 456381.4570 2158.7600 TP-RED1 6202681.2790 456498.9180 2120.0100 **TP42** 6202453.2340 455967.8120 1974.0570 **TP30** 6202788.7450 455998.6440 2066.1060 TP44 6202471.7320 456179.9060 1988.5380 **TP40** 6202103.3480 456821.0320 1868.3880 **TP14** 6202349.9140 456738.6500 1855.5000 TP43 6202274.0830 455930.7260 1909.2300 TP24 6202154.0100 455651.0140 1809.3090 **TP22** 6202244.4550 455537.5840 1820.2540 TP23 6202298.0770 455632.8080 1852.0880 **TP25** 6202404.4660 455652.0230 1889.6950 TP26 6202506.2200 455804.2740 1948.6430 **TP41** 6201725.6060 456757.3340 1854.9140

STA-5 6202466.5404 456706.0989 1903.7350 STA-1 6202424.3537 456680.5552 1873.0700 STA-2 6202437.4748 456555.9961 1896.5970 STA-3 6202442.3613 456422.6691 1930.5550 STA-4 6202531.4579 456369.3915 1991.1380 STA-50 6202476.9153 456457.0259 1945.2580 STA-6 6202489.3231 456736.1143 1918.1890 STA-7 6202522.4779 456774.1212 1942.0030 STA-51 6202505.0475 456490.2256 1973.3200 STA-52 6202543.0528 456528.9901 1990.3560 STA-8 6202551.7686 456804.6428 1953.5350 STA-9 6202640.3673 456840.9339 1956.1900 MC-X 6202492.4468 456610.2780 1932.2780 STA-11 6202503.0591 456619.2709 1938.6660 STA-12 6202523.9387 456653.4216 1961.0770

STA-13 6202409.2486 456390.0646 1912.7870 GL15/550S 6202291.3627 456000.5908 1915.2160 STA-55 6202295.3800 456001.7413 1916.8960 STA-56 6202248.2509 455973.1970 1892.9160 STA-57 6202211.1333 455930.5374 1875.3260 STA-58 6202175.1945 455890.2539 1855.2060 GL15/700S 6202180.7826 455893.1311 1858.3860 STA-59 6202176.8522 455608.3875 1809.2650 GL17/900S 6202191.6830 455619.7751 1811.5850 STA-60 6202242.3166 455659.3583 1833.5890 STA-61 6202225.9407 455783.6896 1856.7990 STA-62 6202192.9480 455735.4261 1830.0350 STA-63 6202168.4727 455715.1434 1815.9150 GL16/850S 6202155.0572 455700.6930 1807.7350 STA-64 6202118.5959 455664.9297 1793.2850

STA-65 6202063.3827 455795.6222 1783.7350 GL15/850S 6202067.9921 455787.8540 1784.5550 STA-66 6202521.1573 455952.5812 1984.6480 STA-67 6202550.4919 455981.0150 1994.5780 STA-68 6202591.7400 456012.0858 2013.6880 STA-70 6202412.2608 455956.3730 1962.5820 STA-69 6202628.4023 456050.3030 2022.1420 STA-71 6202445.7168 455989.3160 1973.1420 GL16/400S 6202481.2975 456026.7077 1981.4220 **TP51** 6202474.6907 455740.3407 1921.6360 STA-78 6202500.9977 456222.7799 1995.0070 STA-79 6202551.9003 456265.3157 2008.5510 STA-80 6202580.3655 456283.9779 2030.7770 STA-81 6202652.6073 456347.8178 2078.2370 STA-82 6202685.1475 456384.3799 2113.4870

STA-83 6202436.5995 456143.1857 1961.7760 GL15/050N 6202713.5634 456424.5137 2134.0610 MC-X1 6202455.7233 456160.6648 1975.0510 STA-88 6202653.2574 456489.6773 2091.1270 STA-84 6202405.4038 456112.1461 1941.8260 STA-89 6202617.5564 456450.8799 2050.8310 STA-85 6202370.3776 456070.2804 1933.2210 STA-90 6202544.5914 456384.9032 1998.4770 STA-86 6202330.6127 456037.7743 1931.4660 STA-91 6202520.4861 456359.6202 1986.5270 GL14/500S 6202269.8065 456106.2201 1863.6010 STA-92 6202479.7847 456316.1983 1961.2270 STA-87 6202307.3160 456144.0515 1882.1510 STA-93 6202452.8261 456279.3752 1952.5470 STA-94 6202336.2490 456174.2755 1898.6360

STA-95 6202415.0776 456250.9271 1934.0610 STA-111 6202847.8745 455986.0780 2061.7900 STA-112 6202926.7875 456022.3901 2064.5900 GL19/100S 6202920.3070 456061.6017 2076.6000 GL18/050S 6202876.0694 456161.1019 2107.9230 GL17/00N 6202859.6447 456260.1237 2132.0600 STA-113 6202824.0158 456234.3529 2122.4430 STA-114 6202775.0196 456318.7724 2141.6230 TP48 6202783.8320 456524.3318 2142.0630 STA-116 6202813.1189 456519.6482 2142.0640 GL15/200N 6202821.3995 456533.1606 2137.9590 MCX2 6202790.1956 456572.9239 2128.3020 STA-117 6202779.2606 456510.5270 2142.0820 MC90-49 6202738.6510 456552.2390 2126.3290 STA-118 6202748.7543 456458.3868 2147.4660

STA-119 6202726.8796 456561.8670 2123.0860 MCX3 6202772.7549 456527.3080 2139.0970 **TP49** 6201884.4780 456415.3810 1682.1620 GL9/900S 6201633.5856 456211.1975 1589.0940 GL11/550S 6202018.3035 456287.9208 1682.5440 GL11/800S 6201829.7294 456113.3461 1617.7040 STA-115 6202813.1458 456356.4575 2152.5230 STA-120 6202383.3282 455809.8073 1909.7780 STA-121 6202412.1710 455835.8359 1928.4880 STA-54 6202454.7223 455863.2599 1947.0880 STA-122 6202362.6343 455525.2088 1841.1840 GL19/850S 6202366.8813 455528.9396 1842.5440 STA-125 6202372.2131 455921.7900 1939.5880 STA-123 6202391.9503 455559.0558 1852.7040 STA-126 6202333.0085 455878.5174 1915.4680

STA-124 6202434.7607 455602.3783 1869.2940 STA-127 6202301.5047 455842.0499 1896.2880 STA-130 6202372.1803 455665.3655 1878.1340 STA-128 6202263.6567 455805.1239 1876.8180 STA-129 6202350.0352 455641.9713 1858.8840 STA-131 6202274.9438 455666.1850 1849.8040 STA-132 6202318.5461 455719.5044 1867.1480 STA-133 6202352.7823 455760.1660 1886.6980 STA-134 6202303.3991 455596.4454 1841.5240 STA-135 6202264.5011 455554.6878 1826.6040 GL18/900S 6202265.0847 455555.5040 1827.0440 STA-136 6202329.9057 455492.9403 1828.3400 **C1** 6202428.6128 455661.1098 1896.7840 C2 6202376.0119 455674.0767 1883.3180 C3 6202356.3043 455770.4008 1891.2280

C4 6202445.9875 455594.3929 1871.0180 C5 6202424.3326 455574.2090 1854.0280 C6 6202420.1502 455553.0581 1852.7180 C7 6202407.7947 455542.3735 1857.9180 STA-138 6202516.6182 455671.0364 1911.5620 STA-139 6202474.0269 455752.2522 1922.4360 C8 6202517.4920 455687.6296 1918.3420 C9 6202530.2718 455707.6146 1920.3720 GL18/600S 6202477.9515 455769.3581 1926.3260 STA-140 6202542.4036 455714.6576 1926.2020 C10 6202446.9907 455837.6789 1943.7130 C11 6202463.2208 455848.9402 1938.1130 C12 6202569.3726 455736.1406 1938.2830 C13 6202536.4278 455762.0709 1943.0830 C14 6202531.1285 455773.6176 1941.5930

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STA-150 6202209.9214 456614.8509 1778.2910 STA-151 6202420.8815 456525.8096 1890.3450 STA-152 6202389.6489 456501.8303 1872.0750 STA-153 6202351.8875 456469.7672 1850.4950 **TP27** 6202615.0302 455893.0596 1995.9190 **TP28** 6202603.3905 456004.1123 2018.9060 **TP29** 6202545.7522 455959.1904 1990.7250 STA-96 6202584.9931 456133.5110 2016.4140 GL16/200S 6202631.2516 456168.1156 2038.2870 STA-97 6202638.0651 456195.1815 2048.1240 STA-98 6202666.3726 456213.5471 2067.1080 STA-99 6202725.8293 456273.2835 2107.1440 STA-100 6202754.4363 456172.9750 2097.9840 STA-101 6202746.1790 456156.3747 2086.8080 GL17/250S 6202666.9943 456084.8100 2034.2740 STA-72 6202482.2803 455904.5937 1965.9920 STA-102 6202777.0201 455912.4979 2021.1980 STA-103 6202761.9130 455879.2026 2006.5640 STA-104 6202702.3275 455831.7493 1985.5820 STA-105 6202654.4913 455820.7857 1984.2480 STA-106 6202804.4956 455937.6421 2033.5040 STA-107 6202563.1768 455857.7214 1975.2190 STA-110 6202666.4230 455956.9434 2021.8690 STA-108 6202582.8894 455886.0325 1984.0940 STA-109 6202622.0766 455916.3469 2001.7490 **TP39** 6202236.5342 456849.1428 1894.6870 **TP38** 6202124.3973 456928.6586 1890.4080 **TP35** 6201367.5059 456560.6683 1767.0390 **TP32** 6201974.6762 456927.2893 1896.2180 TP33 6201777.6884 456847.7790 1882.2210

TP34 6201716.5409 456818.2482 1864.9980 **TP45** 6201807.8747 456754.8579 1834.7060 TP46 6202235.9075 456742.0619 1829.2010 TP47 6201518.1440 456530.6540 1749.8600 STA-73 6201797.4788 456918.4088 1885.2910 STA-74 6201756.7671 456883.2138 1877.5670 STA-75 6201720.0869 456850.9729 1868.2370 STA-76 6201680.0993 456822.8419 1846.6390 STA-77 6201641.8207 456780.3539 1823.4370 GL7/350S 6201884.0307 456735.6629 1808.9710 C16 6202511.4147 456500.4351 1980.4450 **TP52** 6201938.8100 456961.0469 1894.7740 STA-154 6201686.1315 456808.7784 1845.2560 STA-155 6201647.5233 456771.7761 1822.8260 STA-156 6201617.1373 456718.2014 1796.8760

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TP-198 6201983.9439 456512.3046 1695.8620 STA-203 6201575.7461 456453.0378 1702.6920 STA-199 6201911.8139 456472.2302 1691.8720 STA-220 6201888.2874 456444.6340 1685.1520 STA-204 6201649.2665 456538.7244 1734.3020 STA-221 6201864.5000 456416.8233 1674.2620 GL7/650S 6201688.8218 456562.2393 1731.4420 STA-222 6201816.7244 456378.8804 1648.2120 STA-223 6201778.6246 456344.8300 1634.7420 STA-205 6201718.5766 456590.0095 1749.7920 STA-206 6201734.4579 456600.9436 1754.8720 STA-224 6201747.4876 456322.9267 1622.5720 STA-207 6201766.3119 456632.5888 1764.0420 STA-225 6201719.2232 456295.7015 1613.4420 STA-226 6201680.1337 456243.9664 1604.5320

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GL11/100S 6202347.1587 456608.8982 1827.0720 STA-251 6202071.6838 456771.3682 1822.0280 GL11/50S 6202386.0192 456644.3137 1848.1620 STA-240 6202318.0749 456429.2914 1832.2320 STA-241 6202290.9964 456381.3539 1823.3520 STA-242 6202239.8517 456354.2102 1799.9420 STA-243 6202192.7406 456312.5867 1779.4520 STA-244 6202167.7087 456277.7497 1765.2120 STA-245 6202136.7715 456239.2877 1751.6120 GL12/500S 6202096.9173 456208.2711 1730.0120 STA-246 6202082.7669 456155.9647 1731.4020 GL12/650S 6202021.8538 456133.8055 1708.9020 GL12/700S 6201989.1231 456098.0606 1690.2820 GL12/800S 6201919.1962 456027.0097 1661.0520 GL12/850S 6201882.3726 455991.6962 1642.8220

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STA-259 6202232.4734 456190.6354 1828.0220 STA-272 6201799.3195 456254.6011 1613.5620 STA-260 6202265.1739 456231.1746 1843.4120 STA-261 6202300.8262 456271.8628 1864.3620 STA-273 6201871.4382 456140.4300 1636.1420 STA-274 6201845.4162 456121.7579 1625.2520 STA-275 6201804.3056 456087.0887 1608.7520 STA-14 6202380.4953 456364.0132 1892.1520 GL11/900S 6201759.0487 456043.2721 1592.0220 STA-262 6202229.6883 456071.5737 1857.3020 STA-263 6202190.6822 456035.0310 1846.7320 STA-264 6202158.9885 455999.7878 1826.6320 STA-265 6202128.2370 455962.6189 1807.0420 STA-266 6202095.4090 455919.1613 1802.0120 STA-267 6202064.3345 455877.6735 1788.6920

STA-268 6202034.2155 455841.3286 1771.0720 STA-269 6202007.3303 455797.9954 1750.7620 STA-311 6202319.0966 456865.7276 1894.6180 STA-312 6202395.5260 456790.1892 1878.5530 STA-313 6202434.5265 456822.0308 1894.5770 STA-314 6202449.8560 456865.6556 1897.2770 GL10/200N 6202506.1876 456894.8518 1904.2770 STA-315 6202361.7026 456897.5701 1900.4870 STA-250 6202101.3492 456810.2445 1862.2470 STA-316 6202132.4524 456838.3489 1873.2470 STA-276 6202178.7821 456878.4439 1889.8570 STA-277 6202212.8528 456910.3513 1892.8470 STA-278 6202085.0406 456907.7625 1888.9530 STA-279 6202109.9280 456955.3489 1881.0730 STA-280 6202190.8921 457000.7158 1839.0830

STA-281 6202252.4613 457091.3525 1794.0730 STA-283 6202329.3262 457147.4832 1767.6030 STA-284 6202377.2547 457188.8955 1746.9830 STA-285 6202405.9824 457217.3114 1741.8230 STA-286 6202439.7725 457234.4308 1740.2030 STA-287 6202530.6028 457340.9209 1725.0730 STA-288 6202556.5713 457364.8590 1727.9730 STA-289 6202664.1967 457460.8770 1699.0230 STA-290 6202616.8826 457383.0728 1731.1030 STA-291 6202634.9334 457298.1926 1759.7530 STA-282 6202311.9409 457103.1593 1787.1230 STA-302 6202761.4680 456774.1715 2027.9270 STA-304 6202742.6437 456851.6229 1996.4370 STA-305 6202691.5117 456805.8255 1998.7870 STA-306 6202640.7386 456747.9470 1999.2570

STA-307 6202106.0949 455825.5359 1812.4190 STA-308 6202156.9624 455847.9719 1839.4990 MC92-73 6202637.4990 456430.0685 2062.2940 MC92-74 6202637.7410 456430.4601 2062.4040 MC-X4 6202566.0387 456494.4528 2017.5680 MC92-75 6202697.7245 456385.4577 2122.0320 MC92-76 6202412.8194 456597.1201 1871.8320 GL12/750S 6201955.1752 456062.2891 1680.6820 STA-309 6202717.0338 456422.3222 2135.1600 STA-310 6202689.4245 456528.5903 2115.4400 MC90-51 6202689.0703 456528.9746 2115.5000 MC90-46 6202689.0852 456529.1980 2115.4500 MC90-45 6202689.0970 456529.4427 2115.2500 TP-LCP-OR 6200680.0310 456520,6102 1587.7940 **TP59** 6200193.1285 455425.3304 1387.8860

TP61 6199991.5803 455012.2662 1069.4730 TP-BLK-RK 6199988.9786 455014.3712 1070.0230 **TP-TENTFLR** 6199826.9753 455552.1205 1208.5870 TP63 6200853.2258 455856.0120 1650.7190 TP65 6200901.0412 455433.4590 1550.1130 TP66 6200931.9238 455615.2400 1598.5140 **TP67** 6200965.0798 455684.6570 1604.8600 **TP68** 6200920.4143 455754.0925 1631.6800 TP69 6200935.3248 455746.0147 1627.6600 **TP70** 6200938.0156 455998.0613 1671.1740 **TP71** 6200963.1473 455885.4373 1650.9780 STA-137 6202442.7963 455736.6249 1912.1840 GL5/1100S 6201286.7896 456419.0836 1731.5650 GL5/1200S 6201215.4106 456352.2837 1690.4450 GL5/1400 6201064.9896 456206.4053 1665.8950

TP54 6200874.7019 456188.7432 1673.5530 **TP64** 6200736.8340 455406.6270 1582.4880 **TP55** 6200882.6044 455858.9667 1654.7380 TP56 6200422.7240 455940.9040 1559.4110 **TP57** 6200338.7640 455754.5700 1526.4990 STA-248 6201927.5450 455857.9723 1680.6420 TX1 6200681.2514 456519.8277 1587.9720 TX2 6200210.2378 456297.8235 1485.5830 **TP101** 6200427.1799 456494.8546 1566.2300 **TP102** 6200073.9976 456955.3992 1594.1810 TX3 6200261.0706 457201.0748 1598.1390 TX4 6198599.7211 457002.6971 1566.5110 TP72 6201522.2777 456893.6130 1790.4280 TP73 6201654.8313 456973.4915 1823.2200 **TP74** 6201518.9905 456915.2990 1787.9340

TP75 6201677.7068 457115.0231 1762.1540 **TP76** 6201487.3892 457113.7425 1694.1905 **TP77** 6201355.2808 457010.7122 1688.1380 **TP78** 6201318.3895 456838.6290 1713.8540 **TP79** 6201279.3383 456686.7911 1715.8880 **TP80** 6201240.6933 456418.6861 1723.9150 **TP81** 6201085.9873 456282.5996 1671.4860 **TP82** 6201001.0450 456160.8857 1684.2950 **TP83** 6201055.7545 456587.7422 1663.5710 **TP84** 6201092.9642 456705.4129 1667.5020 **TP85** 6201175.9687 456914.6704 1665.1760 **TP86** 6201319.0758 456121.7389 1605.2700 **TP88** 6201303.3639 455706.0739 1469.7640 **TP87** 6201144.2100 455999.5254 1577.1520 **TP89** 6201014.5503 455799.0355 1558.5450

TP90 6202900.5262 455869.9257 2007.6350 T-RB-STA1 6202911.9158 455909.2912 2020.3350 T-91G-1 6202901.3112 455873.1310 2008.5990 **TP92** 6202980.0256 455985.6435 2047.3330 T-R92-B 6203023.0647 455923.9275 1995.6770 T-R92-C 6203062.8584 455942.5572 1990.2110 **TP93** 6203085.5198 455902.8691 1962.1050 **TP94** 6202962.1567 455706.1842 1849.0020 T-H1A 6202954.1394 455770.9427 1889.3960 T-H2A 6202951.9571 455649.2918 1793.5020 **TP95** 6203181.9993 455583.1501 1657.8950 **TP96** 6203282.1462 455498.2412 1597.7110 **TP97** 6203359.2765 455465.7015 1586.2560 **TP98** 6202502.8669 455138.0336 1669.1460 **TP99** 6202161.6695 455360.7400 1763.7730

G-TP99 6202161.6374 455360.7550 1763.7730 GL18/1100S 6202121.9957 455412.1665 1753.4730 GL18/1350S 6201908.8262 455220.3158 1612.9130 GL18/1500S 6201828.9450 455148.6944 1578.2130 GL18/1600S 6201752.2649 455078.4227 1545.0930 GL16/1550S 6201700.1300 455233.2387 1575.1130 **TP201** 6201296.0789 455235.8413 1475.2330 **TP202** 6201181.5067 455396.4321 1447.9160 **TP204** 6201083.6288 455601.6188 1489.7330 **TP205** 6201177.2870 455834.2498 1500.0110 **TP206** 6201421.0857 455581.3382 1470.4330 **TP207** 6201261.5018 455530.3186 1446.2980 **TP208** 6201404.0050 455224.5334 1509.9360 **TP209** 6201202.1088 455189.4124 1419.9130 GL12/900S 6201846.5794 455955.7329 1623.4470

GL12/1050S 6201603.7250 455722.5012 1518.3770 GL12/1200S 6201416.4861 455541.2486 1466.8570 GL12/1300S 6201302.7998 455432.4445 1444.7070 GL14/1600S 6201491.7367 455235.6689 1519.3820 GL14/1550S 6201565.3087 455307.1946 1530.3270 GL14/1450S 6201602.5545 455343.6810 1535.6770 GL14/1300S 6201749.9713 455495.5718 1583.2370 GL14/1250S 6201785.0899 455534.1435 1596.0570 **TP203** 6201043.6422 455456.1752 1485.8050 **TP224** 6201261.2736 454956.2356 1373.5010 TP58 6200192.0666 455558.8830 1430.7280 **TP60** 6199825.2501 455524.1743 1205.1720 **TP62** 6200140.7201 454926.4235 1145.9930 **TP103** 6199574.5263 454583.3691 915.4980 **TP223** 6200923.7967 454886.8895 1257.8260

TP104 6201068.3516 454281.4102 1036.8080 TX5 6200163.0337 454918.9718 1145.7180 **TP105** 6198855.3327 455137.4800 1071.3150 **TP106** 6198241.0094 454812.3968 1101.1990 **TP107** 6197000.5691 454450.6349 1302.2410 TX6 6200019.8050 453757.0880 919.8320 **TP114** 6203798.0760 456754.7720 2144.9870 **TP115** 6204077.2760 456247.7955 2146.8950 0.0000 0.0000 0.0000 **TX18** 6204234.9844 457232.0455 2059.5400 **TX17** 6205163.2156 455925.4167 2014.0910 **TP116** 6206114.4920 455766.2277 2073.8060 **TP117** 6206633.9810 455639.2096 2156.5860 **TX20** 6206647.7828 455606.6761 2146.0720 **TP118** 6206286.1583 456291.2703 2275.1430

TX20A 6206270.0352 456299.2281 2271.5760 **TP119** 6206200.6561 457045.2065 2358.8920 **TX19** 6207005.8252 457872.3572 2434.1820 **TP120** 6205566.5384 457852.9586 2226.9530 **TP221** 6203952.7214 455572.4203 0.0000 **TP222** 6204899.2165 455128.9814 0.0000 TX16 6205649.8125 454119.5081 0.0000 **TX21** 6207226.2584 454105.5141 0.0000 **TP232** 6207724.7176 453574.5816 0.0000 **TP233** 6208002.5141 453680.2053 0.0000 **TP234** 6209407.4973 453364.7080 0.0000 **TP235** 6210219.6390 453100.3332 0.0000 TP236 6211123.3348 452314.2743 0.0000 **TP237** 6211334.4532 453589.9623 0.0000 **TP238** 6210676.2338 454208.0771 0.0000

TX29 6211554.1207 454859.1315 0.0000 TP239 6210020.8438 454859.4185 0.0000 **TP240** 6210826.3422 454916.6777 0.0000 **TX27** 6209294.4187 455634.4098 0.0000

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TPOT-OTTER 6203101.7580 450536.4000 1993.2390 TP-CAM 6202763.3040 456381.4570 2158.7600 TP-RED1 6202681.2790 456498.9180 2120.0100 TP42 6202453.2340 455967.8120 1974.0570 **TP30** 6202788.7450 455998.6440 2066.1060 **TP44** 6202471.7320 456179.9060 1988.5380 TP40 6202103.3480 456821.0320 1868.3880 **TP14** 6202349.9140 456738.6500 1855.5000 TP43 6202274.0830 455930.7260 1909.2300 TP24 6202154.0100 455651.0140 1809.3090 **TP22** 6202244.4550 455537.5840 1820.2540 **TP23** 6202298.0770 455632.8080 1852.0880 **TP25** 6202404.4660 455652.0230 1889.6950 TP26 6202506.2200 455804.2740 1948.6430 **TP41** 6201725.6060 456757.3340 1854.9140

GL16/400S 6202481.2975 456026.7077 1981.4220 **TP51** 6202474.6907 455740.3407 1921.6360 GL15/050N 6202713.5634 456424.5137 2134.0610 MC-X1 6202455.7233 456160.6648 1975.0510 GL14/500S 6202269.8065 456106.2201 1863.6010 GL19/100S 6202920.3070 456061.6017 2076.6000 GL18/050S 6202876.0694 456161.1019 2107.9230 GL17/00N 6202859.6447 456260.1237 2132.0600 TP48 6202783.8320 456524.3318 2142.0630 GL15/200N 6202821.3995 456533.1606 2137.9590 MCX2 6202790.1956 456572.9239 2128.3020 MC90-49 6202738.6510 456552.2390 2126.3290 MCX3 6202772.7549 456527.3080 2139.0970 **TP49** 6201884.4780 456415.3810 1682.1620 GL9/900S 6201633.5856 456211.1975 1589.0940

GL11/550S 6202018.3035 456287.9208 1682.5440 GL11/800S 6201829.7294 456113.3461 1617.7040 GL19/850S 6202366.8813 455528.9396 1842.5440 GL18/900S 6202265.0847 455555.5040 1827.0440 GL18/600S 6202477.9515 455769.3581 1926.3260 GL18/550S 6202515.7431 455808.6966 1948.4830 GL12/100N 6202558.8728 456685.1052 1975.3710 MC92-71 6202576.4385 456487.3726 2027.0350 MC92-72 6202662.4861 456664.7032 2038.0000 **TP27** 6202615.0302 455893.0596 1995.9190 TP28 6202603.3905 456004.1123 2018.9060 TP29 6202545.7522 455959.1904 1990.7250 GL16/200S 6202631.2516 456168.1156 2038.2870 GL17/250S 6202666.9943 456084.8100 2034.2740 **TP39** 6202236.5342 456849.1428 1894.6870

TP38 6202124.3973 456928.6586 1890.4080 TP35 6201367.5059 456560.6683 1767.0390 TP32 6201974.6762 456927.2893 1896.2180 **TP33** 6201777.6884 456847.7790 1882.2210 **TP34** 6201716.5409 456818.2482 1864.9980 **TP45** 6201807.8747 456754.8579 1834.7060 TP46 6202235.9075 456742.0619 1829.2010 **TP47** 6201518.1440 456530.6540 1749.8600 GL7/350S 6201884.0307 456735.6629 1808.9710 **TP52** 6201938.8100 456961.0469 1894.7740 GL6/850S 6201470.4446 456469.6354 1727.4860 TP-198 6201983.9439 456512.3046 1695.8620 GL7/650S 6201688.8218 456562.2393 1731.4420 GL11/350S 6202160.8840 456425.7378 1749.3320 GL11/300S 6202198.9462 456462.2383 1761.6320

GL11/250S 6202235.8187 456499.5413 1775.8120 GL11/200S 6202272.2110 456536.6002 0.0000 GL11/150S 6202309.3755 456572.1340 1811.5420 GL11/100S 6202347.1587 456608.8982 1827.0720 GL11/50S 6202386.0192 456644.3137 1848.1620 GL12/500S 6202096.9173 456208.2711 1730.0120 GL12/650S 6202021.8538 456133.8055 1708.9020 GL12/700S 6201989.1231 456098.0606 1690.2820 GL12/800S 6201919.1962 456027.0097 1661.0520 GL12/850S 6201882.3726 455991.6962 1642.8220 **TP20** 6202739.3990 456730.1250 2035.0600 **TP303** 6202715.6750 456817.1610 2011.5570 GL11/900S 6201759.0487 456043.2721 1592.0220 GL10/200N 6202506.1876 456894.8518 1904.2770 MC92-73 6202637.4990 456430.0685 2062.2940

MC92-74 6202637.7410 456430.4601 2062.4040 MC-X4 6202566.0387 456494.4528 2017.5680 MC92-75 6202697.7245 456385.4577 2122.0320 MC92-76 6202412.8194 456597.1201 1871.8320 GL12/750S 6201955.1752 456062.2891 1680.6820 MC90-51 6202689.0703 456528.9746 2115.5000 MC90-46 6202689.0852 456529.1980 2115.4500 MC90-45 6202689.0970 456529.4427 2115.2500 TP-LCP-OR 6200680.0310 456520.6102 1587.7940 TP59 6200193.1285 455425.3304 1387.8860 **TP61** 6199991.5803 455012.2662 1069.4730 TP-BLK-RK 6199988.9786 455014.3712 1070.0230 **TP-TENTFLR** 6199826.9753 455552.1205 1208.5870 TP63 6200853.2258 455856.0120 1650.7190 **TP65** 6200901.0412 455433.4590 1550.1130

TP66 6200931.9238 455615.2400 1598.5140 **TP67** 6200965.0798 455684.6570 1604.8600 TP68 6200920.4143 455754.0925 1631.6800 TP69 6200935.3248 455746.0147 1627.6600 **TP70** 6200938.0156 455998.0613 1671.1740 **TP71** 6200963.1473 455885.4373 1650.9780 GL5/1100S 6201286.7896 456419.0836 1731.5650 GL5/1200S 6201215.4106 456352.2837 1690.4450 GL5/1400 6201064.9896 456206.4053 1665.8950 TP54 6200874.7019 456188.7432 1673.5530 TP64 6200736.8340 455406.6270 1582.4880 **TP55** 6200882.6044 455858.9667 1654.7380 **TP56** 6200422.7240 455940.9040 1559.4110 **TP57** 6200338.7640 455754.5700 1526.4990 TX1 6200681.2514 456519.8277 1587.9720

TX2 6200210.2378 456297.8235 1485.5830 **TP101** 6200427.1799 456494.8546 1566.2300 **TP102** 6200073.9976 456955.3992 1594.1810 TX3 6200261.0706 457201.0748 1598.1390 TX4 6198599.7211 457002.6971 1566.5110 TP72 6201522.2777 456893.6130 1790.4280 TP73 6201654.8313 456973.4915 1823.2200 **TP74** 6201518.9905 456915.2990 1787.9340 **TP75** 6201677.7068 457115.0231 1762.1540 TP76 6201487.3892 457113.7425 1694.1905 **TP77** 6201355.2808 457010.7122 1688.1380 **TP78** 6201318.3895 456838.6290 1713.8540 **TP79** 6201279.3383 456686.7911 1715.8880 **TP80** 6201240.6933 456418.6861 1723.9150 **TP81** 6201085.9873 456282.5996 1671.4860

TP82 6201001.0450 456160.8857 1684.2950 **TP83** 6201055.7545 456587.7422 1663.5710 **TP84** 6201092.9642 456705.4129 1667.5020 **TP85** 6201175.9687 456914.6704 1665.1760 **TP86** 6201319.0758 456121.7389 1605.2700 TP88 6201303.3639 455706.0739 1469.7640 **TP87** 6201144.2100 455999.5254 1577.1520 **TP89** 6201014.5503 455799.0355 1558.5450 **TP90** 6202900.5262 455869.9257 2007.6350 **T-RB-STA1** 6202911.9158 455909.2912 2020.3350 T-91G-1 6202901.3112 455873.1310 2008.5990 TP92 6202980.0256 455985.6435 2047.3330 T-R92-B 6203023.0647 455923.9275 1995.6770 T-R92-C 6203062.8584 455942.5572 1990.2110 **TP93** 6203085.5198 455902.8691 1962.1050 **TP94** 6202962.1567 455706.1842 1849.0020 T-H1A 6202954.1394 455770.9427 1889.3960 T-H2A 6202951.9571 455649.2918 1793.5020 **TP95** 6203181.9993 455583.1501 1657.8950 **TP96** 6203282.1462 455498.2412 1597.7110 **TP97** 6203359.2765 455465.7015 1586.2560 **TP98** 6202502.8669 455138.0336 1669.1460 **TP99** 6202161.6695 455360.7400 1763.7730 G-TP99 6202161.6374 455360.7550 1763.7730 GL18/1100S 6202121.9957 455412.1665 1753.4730 GL18/1350S 6201908.8262 455220.3158 1612.9130 GL18/1500S 6201828.9450 455148.6944 1578.2130 GL18/1600S 6201752.2649 455078.4227 1545.0930 GL16/1550S 6201700.1300 455233.2387 1575.1130 **TP201** 6201296.0789 455235.8413 1475.2330

TP202 6201181.5067 455396.4321 1447.9160 **TP204** 6201083.6288 455601.6188 1489.7330 **TP205** 6201177.2870 455834.2498 1500.0110 **TP206** 6201421.0857 455581.3382 1470.4330 **TP207** 6201261.5018 455530.3186 1446.2980 **TP208** 6201404.0050 455224.5334 1509.9360 **TP209** 6201202.1088 455189.4124 1419.9130 GL12/900S 6201846.5794 455955.7329 1623.4470 GL12/1050S 6201603.7250 455722.5012 1518.3770 GL12/1200S 6201416.4861 455541.2486 1466.8570 GL12/1300S 6201302.7998 455432.4445 1444.7070 GL14/1600S 6201491.7367 455235.6689 1519.3820 GL14/1550S 6201565.3087 455307.1946 1530.3270 GL14/1450S 6201602.5545 455343.6810 1535.6770 GL14/1300S 6201749.9713 455495.5718 1583.2370

GL14/1250S 6201785.0899 455534.1435 1596.0570 **TP203** 6201043.6422 455456.1752 1485.8050 **TP224** 6201261.2736 454956.2356 1373.5010 **TP58** 6200192.0666 455558.8830 1430.7280 **TP60** 6199825.2501 455524.1743 1205.1720 TP62 6200140.7201 454926.4235 1145.9930 **TP103** 6199574.5263 454583.3691 915.4980 **TP223** 6200923.7967 454886.8895 1257.8260 **TP104** 6201068.3516 454281.4102 1036.8080 TX5 6200163.0337 454918.9718 1145.7180 **TP105** 6198855.3327 455137.4800 1071.3150 **TP106** 6198241.0094 454812.3968 1101.1990 **TP107** 6197000.5691 454450.6349 1302.2410 TX6 6200019.8050 453757.0880 919.8320 **TP114** 6203798.0760 456754.7720 2144.9870

TP115 6204077.2760 456247.7955 2146.8950 **TX18** 6204234.9844 457232.0455 2059.5400 **TX17** 6205163.2156 455925.4167 2014.0910 **TP116** 6206114.4920 455766.2277 2073.8060 **TP117** 6206633.9810 455639.2096 2156.5860 **TX20** 6206647.7828 455606.6761 2146.0720 **TP118** 6206286.1583 456291.2703 2275.1430 TX20A 6206270.0352 456299.2281 2271.5760 **TP119** 6206200.6561 457045.2065 2358.8920 **TX19** 6207005.8252 457872.3572 2434.1820 **TP120** 6205566.5384 457852.9586 2226.9530 **TP221** 6203952.7214 455572.4203 1849.2790 **TP222** 6204899.2165 455128.9814 1641.5250 **TX16** 6205649.8125 454119.5081 1477.4540 **TX21** 6207226.2584 454105.5141 1500.4390

TP232 6207724.7176 453574.5816 1459.3270 **TP233** 6208002.5141 453680.2053 1511.4720 **TP234** 6209407.4973 453364.7080 1564.3210 **TP235** 6210219.6390 453100.3332 1667.7050 **TP236** 6211123.3348 452314.2743 1578.8500 **TP237** 6211334.4532 453589.9623 1931.9900 **TP238** 6210676.2338 454208.0771 2083.4880 **TX29** 6211554.1207 454859.1315 2442.7500 **TP239** 6210020.8438 454859.4185 1991.2790 **TP240** 6210826.3422 454916.6777 2186.5750 **TX27** 6209294.4187 455634.4098 2391.8060 **TP241** 6210931.0230 455867.7833 2019.6470 **TX28** 6211350.7041 457222.2533 1934.2000 **TP225** 6201434.4954 454062.1293 1030.2020 **TX11** 6202847.9397 453927.0309 795.9520

TP226 6203419.6230 453429.5854 754.1060 **TX15** 6204580.8370 452465.5005 524.9400 **TP227** 6205980.1531 451985.2018 352.7720 **TP228** 6206844.7110 451711.7248 339.1170 **TX22** 6207602.9597 451463.1725 331.8800 **TP229** 6208815.5751 450887.9815 441.0140 **TP230** 6208880.7898 449472.4340 273.0220 **TP231** 6208891.4540 448984.8876 259.2600 **TP231A** 6209030.3226 448705.9530 253.2100 TX26 6208979.4251 448665.5569 252.9400 **TP242** 6211118.8464 451839.1355 1390.5060 **TX30** 6211396.5434 450595.2413 701.7500 **TP243** 6212615.9562 451445.5056 1089.1280 **TP244** 6212437.3591 450068.6697 1372.7160 **TP245** 6212080.5652 449982.0197 1338.8110

T-BOND 6202520.6775 456733.5395 1941.2600 TP1 6201630.6470 455081.8490 1560.0610 TPOT108 6203950.5335 449419.4766 1727.9140 **TPOT109** 6202109.8941 450951.6713 2018.3870 TPOT108A 6203096.0523 448770.7902 1629.8180 TXOT13 6202344.5379 448277.0317 1607.4760 TPOT110 6201191.5382 451540.6305 1874.3770 TPOT111 6200010.0515 451141.3877 1922.6990 TPOT112 6198231.5781 451679.1609 1929.7970 TPOT113 6197761.9798 451788.6792 1958.8920 TXOT7 6197658.7085 451815.6220 1961.1470 MC92-81 6202610.4683 457284.9841 1754.8560 MC92-80 6202610.0923 457286.3401 1754.5680 MC92-82 6202609.8578 457286.1493 1754.5970 MC92-83 6202609.0993 457286.9516 1754.1110

MC92-77 6202697.4418 456385.2306 2121.9160 MC92-78 6202697.5622 456385.1101 2121.9750 MC92-79 6202819.2814 456362.6571 2151.6000 TPOT262 6204712.0163 449738.0974 1973.0460 TPOT263 6205086.3429 448393.6755 1820.8190 TPOT264 6206260.0963 447207.8136 1623.8930 TXOT23 6206516.8507 447001.2117 1522.9410 TPOT265 6206251.3268 445656.4403 1271.5760 TXOT24 6207268.8581 444610.7652 944.3670 TX9 6202421.8062 457308.8548 1724.5620 **TP248** 6208955.2244 448305.5537 252.8410 **TP249** 6208727,9201 448275.1550 296.3530 **TP250** 6208688.3140 447689.3925 229.1470 **TP251** 6207739.0075 446392.8117 440.7980 TP252 6208112.1431 446435.4689 272.6130

TP253 6208423.7878 445185.2322 172.9620 **TP254** 6208582.4500 445031.3114 168.8190 **TX25** 6208531.6053 445058.4541 166.7530 **TP255** 6208747.9320 444659.7465 162.7310 **TP256** 6208741.8752 444393.0803 160.7320 **TP283** 6209012.0379 444206.6465 153.3640 **TP284** 6209437.4199 443978.0696 146.7440 **TP285** 6209654.9183 443920.0734 144.9930 **TP286** 6209862.7241 443879.5506 141.5870 **TP287** 6210221.7890 443705.9528 139.7190 **TP288** 6210397.8517 443255.1093 127.9990 **TP289** 6210635.0271 442548.1599 118.0850 **TP290** 6210669.5205 442512.4759 116.9510 **TX32** 6210975.8228 442491.3051 117.3160 **TP257** 6212508.2398 450044.7351 1380.2960

TP258 6212424.4493 449424.9938 1592.1860 **TP259** 6212973.3132 448511.4367 1689.9530 **TP260** 6212283.6875 447988.4928 1630.3930 **TP261** 6212282.2669 446451.4084 1249.5560 **TX31** 6210968.1939 446916.9758 1606.4770 **TP91** 6202841.6260 455680.9228 1907.0360 **TP291** 6210333.4645 443128.9938 128.5640 **TP292** 6210112.1505 442952.8937 124.3290 **TP293** 6209766.1631 442547.7849 108.6370 **TP294** 6209243.6433 442174.2339 99.6720 **TP295** 6208574.7689 442009.8999 93.1660 **TX33** 6208758.1503 441980.9850 94.1570 **TP296** 6207820.5680 441726.1331 88.7300 **TP297** 6206956.7305 441527.5421 81.3490 **TP298** 6206196.1295 441353.0534 75.5390 TP299 6206206.2930 441102.4404 80.9450 TX34 6206422.8017 441111.7334 75.5330

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TP-CAM 6202763.3040 456381.4570 0.0000 TP-OTTER 6203101.7580 450536.4000 0.0000 **TP114** 6203794.2499 456765.2126 0.0000 TX-18 6204226.3116 457246.8779 0.0000 **TP115** 6204078.5604 456261.0861 0.0000 **TX17** 6205167.7036 455949.7023 0.0000 **TP116** 6206120.5407 455800.1384 0.0000 **TP117** 6206641.2873 455678.3787 0.0000 **TP118** 6206286.8903 456326.8897 0.0000 TX20 6206655.4173 455645.9864 0.0000 **TP119** 6206193.7704 457079.9230 0.0000 TX20A 6206270.6876 456334.6841 0.0000 **TP120** 6205551.5190 457881.2231 0.0000 **TX19** 6206990.5361 457915.1714 0.0000 **TP30** 6202792.6548 455998.9254 0.0000

TP90 6202905.7469 455871.3573 0.0000 **TP221** 6203960.9303 455584.6307 0.0000 **TP222** 6204911.9120 455150.8970 0.0000 **TX16** 6205672.7949 454149.1546 0.0000 **TX21** 6207249.3015 454151.2874 0.0000 **TP232** 6207753.1657 453625.4816 0.0000 **TP233** 6208029.8672 453733.9415 0.0000 **TP234** 6209438.0043 453432.8327 0.0000 **TP235** 6210252.8078 453176.7795 0.0000 **TP236** 6211164.4972 452400.0059 0.0000 **TP237** 6211362.5551 453677.7868 0.0000 **TP238** 6210698.0472 454289.1361 0.0000 **TX29** 6211569.2283 454949.1366 0.0000 P239 6210036.0288 454933.7392 0.0000 **TP239** 6210036.0288 454933.7392 0.0000

TP240 6210840.8993 454999.2351 0.0000 **TX27** 6209301.7091 455701.2641 0.0000 **TP241** 6210935.8454 455951.3618 0.0000 **TX28** 6211341.6491 457310.0540 0.0000 **TP242** 6211164.8694 451924.8461 0.0000 **TX30** 6211455.2761 450683.8576 0.0000 **TP243** 6212665.9274 451546.5512 0.0000 **TP244** 6212501.4238 450167.9604 0.0000 **TP245** 6212145.5349 450077.6652 0.0000 **TP246** 6211656.1190 449455.1523 0.0000 **TP257** 6212572.5456 450144.7521 0.0000 **TP258** 6212495.0991 449524.1861 0.0000 **TP259** 6213053.2793 448616.2914 0.0000 **TP260** 6212369.0391 448086.3204 0.0000 **TP261** 6212383.3419 446549.3009 0.0000

TX31 6211064.5753 447001.4028 0.0000 **TP108** 6203950.5897 449419.4026 0.0000 **TP108A** 6203096.1086 448770.7162 0.0000 **TX13** 6202344.5942 448276.9576 0.0000 **TP109** 6202109.8941 450951.6713 0.0000 **TP110** 6201191.5526 451540.6528 0.0000 TP111 6200010.0561 451141.4386 0.0000 **TP112** 6198231.5958 451679.2551 0.0000 **TP113** 6197762.0001 451788.7847 0.0000 TX7 6197658.7295 451815.7300 0.0000 **TP262** 6204712.0163 449738.0973 0.0000 TP263 6205086.3428 448393.6754 0.0000 **TP264** 6206260.0962 447207.8135 0.0000 **TX23** 6206516.8507 447001.2117 0.0000 **TP265** 6206251.3267 445656.4403 0.0000

TX24 6207268.8587 444610.7644 0.0000 TP41 6201721.8441 456746.8299 0.0000 **TP14** 6202346.3009 456734.4272 0.0000 TP44 6202473.7464 456176.9442 0.0000 TP44A 6202473.7562 456176.9377 0.0000 TP14A 6202346.3216 456734.4231 0.0000 TP42 6202457.3993 455964.6798 0.0000 **TP30** 6202792.5801 455998.9188 0.0000 TP-CAMA 6202763.3070 456381.4573 0.0000 TP30A 6202792.6078 455998.9218 0.0000 **TP49** 6201884.1389 456406.4902 0.0000 **TP88** 6201310.1907 455691.3724 0.0000 **TP201** 6201307.6372 455221.0903 0.0000 **TP202** 6201191.4547 455380.5193 0.0000 **TP203** 6201052.9914 455438.8682 0.0000

TP203A 6201052.8639 455438.8841 0.0000 TP88A 6201310.0751 455691.3761 0.0000 **TP224** 6201275.4907 454941.1489 0.0000 **TP223** 6200938.7252 454868.4268 0.0000 **TP104** 6201089.3361 454264.4255 0.0000 **TP103** 6199593.1705 454551.2419 0.0000 **TP225** 6201457.6575 454048.8221 0.0000 **TX11** 6202872.3837 453927.8848 0.0000 **TP226** 6203449.0197 453436.1890 0.0000 **TX15** 6204619.8299 452483.7808 0.0000 **TP227** 6206023.8856 452017.5190 0.0000 **TP228** 6206891.1387 451752.7135 0.0000 **TX22** 6207651.8384 451511.7667 0.0000 **TP229** 6208870.1530 450948.7478 0.0000 **TP230** 6208949.5398 449533.9243 0.0000 TP231 6208965.0858 449046.5092 0.0000 **TP231A** 6209106.7407 448768.9793 0.0000 TX26 6209056.2503 448728.0754 0.0000 **TP248** 6209035.6559 448367.8479 0.0000 **TP249** 6208808.6684 448335.1746 0.0000 **TP250** 6208774.9302 447749.0448 0.0000 **TP251** 6207838.6396 446443.0340 0.0000 **TP252** 6208211.3299 446489.4212 0.0000 **TP253** 6208535.4638 445242.3641 0.0000 **TP254** 6208695.6576 445090.0379 0.0000 **TX25** 6208644.5439 445116.6707 0.0000 **TP255** 6208864.8476 444720.1467 0.0000 **TP256** 6208861.4584 444453.4343 0.0000 **TP283** 6209133.4723 444269.7120 0.0000 **TP284** 6209561.1166 444045.3961 0.0000

TP285 6209779.1835 443989.5756 0.0000 **TP286** 6209987.3838 443951.1308 0.0000 **TP287** 6210348.1650 443781.1288 0.0000 **TP288** 6210528.7229 443332.0667 0.0000 **TP289** 6210772.9486 442627.5228 0.0000 **TP290** 6210807.7967 442592.1852 0.0000 **TX32** 6211114.2952 442574.0755 0.0000 **TP291** 6210465.5988 443205.3142 0.0000 **TP292** 6210246.0551 443027.0120 0.0000 **TP293** 6209904.1320 442618.4670 0.0000 **TP294** 6209385.3700 442239.7147 0.0000 **TP295** 6208718.1707 442068.7068 0.0000 **TX33** 6208901.8318 442041.6253 0.0000 **TP296** 6207966.8422 441777.4197 0.0000 **TP297** 6207105.0313 441570.2110 0.0000 TP298 6206346.2110 441388.1344 0.0000 TP299 6206358.8770 441137.6364 0.0000 TX34 6206575.2820 441149.0914 0.0000

TP-OTTER 6203101.7580 450536.4000 1993.2390 TP-CAM 6202763.3040 456381.4570 2158.7600 **TP114** 6203794.2499 456765.2126 2144.9870 **TX18** 6204226.3116 457246.8779 2059.5400 **TP115** 6204078.5604 456261.0861 2146.8950 **TX17** 6205167.7036 455949.7023 2014.0910 **TP116** 6206120.5407 455800.1384 2073.8060 **TP117** 6206641.2873 455678.3787 2156.5860 **TP118** 6206286.8903 456326.8897 2275.1430 **TX20** 6206655.4173 455645.9864 2146.0720 **TP119** 6206193.7704 457079.9230 2358.8920 TX20A 6206270.6876 456334.6841 2271.5760 **TP120** 6205551.5190 457881.2231 2226.9530 **TX19** 6206990.5361 457915.1714 2434.1820 **TP30** 6202792.6548 455998.9254 2066.1060

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TP90 6202905.7469 455871.3573 2007.6350 **TP221** 6203960.9303 455584.6307 1849.2790 **TP222** 6204911.9120 455150.8970 1641.5250 **TX16** 6205672.7949 454149.1546 1477.4540 TX21 6207249.3015 454151.2874 1500.4390 **TP232** 6207753.1657 453625.4816 1459.3270 **TP233** 6208029.8672 453733.9415 1511.4720 **TP234** 6209438.0043 453432.8327 1564.3210 **TP235** 6210252.8078 453176.7795 1667.7050 **TP236** 6211164.4972 452400.0059 1578.8500 **TP237** 6211362.5551 453677.7868 1931.9900 **TP238** 6210698.0472 454289.1361 2083.4880 **TX29** 6211569.2283 454949.1366 2442.7500 **TP239** 6210036.0288 454933.7392 1991.2790 **TP240** 6210840.8993 454999.2351 2186.5750

TX27 6209301.7091 455701.2641 2391.8060 **TP241** 6210935.8454 455951.3618 2019.6470 **TX28** 6211341.6491 457310.0540 1934.2000 **TP242** 6211164.8694 451924.8461 1390.5060 **TX30** 6211455.2761 450683.8576 701.7500 **TP243** 6212665.9274 451546.5512 1089.1280 **TP244** 6212501.4238 450167.9604 1372.7160 **TP245** 6212145.5349 450077.6652 1338.8110 **TP246** 6211656.1190 449455.1523 0.0000 **TP257** 6212572.5456 450144.7521 1380.2960 **TP258** 6212495.0991 449524.1861 1592.1860 **TP259** 6213053.2793 448616.2914 1689.9530 **TP260** 6212369.0391 448086.3204 1630.3930 **TP261** 6212383.3419 446549.3009 1249.5560 **TX31** 6211064.5753 447001.4028 1606.4770

TP108 6203950.5897 449419.4026 1727.9140 **TP108A** 6203096.1086 448770.7162 1629.8180 **TX13** 6202344.5942 448276.9576 1607.4760 **TP109** 6202109.8941 450951.6713 2018.3870 **TP110** 6201191.5526 451540.6528 1874.3770 **TP111** 6200010.0561 451141.4386 1922.6990 **TP112** 6198231.5958 451679.2551 1929.7970 **TP113** 6197762.0001 451788.7847 1958.8920 TX7 6197658.7295 451815.7300 1961.1470 **TP262** 6204712.0163 449738.0973 1973.0460 **TP263** 6205086.3428 448393.6754 1820.8190 **TP264** 6206260.0962 447207.8135 1623.8930 **TX23** 6206516.8507 447001.2117 1522.9410 **TP265** 6206251.3267 445656.4403 1271.5760 **TX24** 6207268.8587 444610.7644 944.3670

TP41 6201721.8441 456746.8299 1854.9140 **TP14** 6202346.3009 456734.4272 1855.5000 TP44 6202473.7464 456176.9442 1988.5380 **TP42** 6202457.3993 455964.6798 1974.0570 **TP49** 6201884.1389 456406.4902 1682.1620 **TP88** 6201310.1907 455691.3724 1469.7640 **TP201** 6201307.6372 455221.0903 1475.2330 **TP202** 6201191.4547 455380.5193 1447.9160 **TP203** 6201052.9914 455438.8682 1485.8050 **TP224** 6201275.4907 454941.1489 1373.5010 **TP223** 6200938.7252 454868.4268 1257.8260 **TP104** 6201089.3361 454264.4255 1036.8080 **TP103** 6199593.1705 454551.2419 915.4980 **TP225** 6201457.6575 454048.8221 1030.2020 **TX11** 6202872.3837 453927.8848 795.9520

TP226 6203449.0197 453436.1890 754.1060 **TX15** 6204619.8299 452483.7808 524.9400 **TP227** 6206023.8856 452017.5190 352.7720 **TP228** 6206891.1387 451752.7135 339.1170 **TX22** 6207651.8384 451511.7667 331.8800 **TP229** 6208870.1530 450948.7478 441.0140 **TP230** 6208949.5398 449533.9243 273.0220 **TP231** 6208965.0858 449046.5092 259.2600 **TP231A** 6209106.7407 448768.9793 253.2100 TX26 6209056.2503 448728.0754 252.9400 **TP248** 6209035.6559 448367.8479 252.8410 TP249 6208808.6684 448335.1746 296.3530 **TP250** 6208774.9302 447749.0448 229.1470 **TP251** 6207838.6396 446443.0340 440.7980 **TP252** 6208211.3299 446489.4212 272.6130

TP253 6208535.4638 445242.3641 172.9620 **TP254** 6208695.6576 445090.0379 168.8190 **TX25** 6208644.5439 445116.6707 166.7530 **TP255** 6208864.8476 444720.1467 162.7310 **TP256** 6208861.4584 444453.4343 160.7320 **TP283** 6209133.4723 444269.7120 153.3640 **TP284** 6209561.1166 444045.3961 146.7440 **TP285** 6209779.1835 443989.5756 144.9930 **TP286** 6209987.3838 443951.1308 141.5870 **TP287** 6210348.1650 443781.1288 139.7190 **TP288** 6210528.7229 443332.0667 127.9990 **TP289** 6210772.9486 442627.5228 118.0850 **TP290** 6210807.7967 442592.1852 116.9510 **TX32** 6211114.2952 442574.0755 117.3160 **TP291** 6210465.5988 443205.3142 128.5640

TP292 6210246.0551 443027.0120 124.3290 **TP293** 6209904.1320 442618.4670 108.6370 **TP294** 6209385.3700 442239.7147 99.6720 **TP295** 6208718.1707 442068.7068 93.1660 **TX33** 6208901.8318 442041.6253 94.1570 **TP296** 6207966.8422 441777.4197 88.7300 **TP297** 6207105.0313 441570.2110 81.3490 **TP298** 6206346.2110 441388.1344 75.5390 **TP299** 6206358.8770 441137.6364 80.9450 **TX34** 6206575.2820 441149.0914 75.5330 T-BOND-00 6202517.1072 456731.0347 1941.2600 T-GRD45-00 6198186.0794 453990.9940 0.0000 TP43 6202278.6193 455925.7845 0.0000 **TP55** 6200887.9134 455840.0360 0.0000 TP22 6202252.9600 455532.3830 1820.2540

TP1 6201643.6020 455070.5120 1560.0610 TP25 6202411.8208 455648.4259 0.0000 TP24 6202161.3826 455644.8999 0.0000 TP23 6202305.6273 455628.1455 0.0000 **TP51** 6202481.1630 455737.4368 0.0000 TP26 6202512.0378 455801.6944 0.0000 **TP27** 6202619.9448 455891.5709 0.0000 **TP28** 6202607.1928 456002.5032 0.0000 **TP29** 6202550.0001 455956.9960 0.0000 **TP39** 6202231.8110 456843.7750 0.0000 **TP40** 6202098.9134 456814.3262 0.0000 **TP38** 6202118.8870 456922.1580 0.0000 **TP32** 6201969.1791 456919.2798 0.0000 **TP33** 6201773.0022 456837.7893 0.0000 **TP35** 6201365.7404 456546.5719 0.0000

TP45 6201804.1336 456745.1815 0.0000 TP46 6202232.2734 456736.6920 0.0000 **TP34** 6201712.1463 456807.6396 0.0000 **TP47** 6201516.6681 456518.0771 0.0000 **TP52** 6201932.9762 456952.6731 0.0000 **TP303** 6202711.2470 456816.6110 0.0000 TP20 6202735.8445 456729.8172 0.0000 TP-RED1 6202722.2479 456439.0012 0.0000 **TP54** 6200876.6972 456169.7164 0.0000 TP-LCP-OR 6200678.7073 456499.6026 0.0000 TP56 6200427.2209 455917.3709 0.0000 **TP57** 6200345.1496 455730.1652 0.0000 TP59 6200202.8743 455399.4734 0.0000 **TP58** 6200200.4293 455533.0116 0.0000 **TP64** 6200746.6900 455386.2550 0.0000

TP60 6199833.9807 455494.6125 0.0000 **TP61** 6200005.4861 454984.4038 0.0000 TP-BLK-RK 6200002.8633 454986.4826 0.0000 **TP62** 6200155.4512 454900.0673 0.0000 T-TENTFLR 6199835.4548 455522.5737 0.0000 **TP63** 6200858.5929 455836.7870 0.0000 TP65 6200910.6970 455414.7268 0.0000 **TP66** 6200939.7422 455596.8105 0.0000 **TP67** 6200972.1954 455666.5588 0.0000 TP68 6200926.8192 455735.5480 0.0000 TP69 6200941.7993 455727.6297 0.0000 TP70 6200941.9423 455979.6847 0.0000 **TP71** 6200968.2056 455867.3192 0.0000 MC92-71 6202575.3295 456485.4186 2027.0180 MC92-72 6202659.6011 456663.6285 2038.0000

MC92-73 6202636.9822 456428.7657 2062.2940 MC92-74 6202637.2202 456429.1596 2062.4040 MC92-75 6202697.6546 456384.7645 2122.0320 MC92-76 6202410.6268 456593.5372 1871.8420 MC92-77 6202697.3741 456384.5345 2121.9160 MC92-78 6202697.4957 456384.4152 2121.9750 MC92-79 6202819.4705 456363.2300 2151.6000 MC92-80 6202600.9529 457284.7160 -135.8400MC92-81 6202601.3424 457283.3637 -135.5520 MC92-82 6202600.7219 457284.5240 -135.8110MC92-83 6202599.9537 457285.3174 -136.3260 TP48 6202782.3907 456524.5315 2142.0580 TX1 6200679.9292 456498.8401 0.0000 TX2 6200211.1702 456272.1118 0.0000 **TP101** 6200426.1217 456471.3147 0.0000

TP102 6200068.3287 456928.2869 0.0000 **TP84** 6201089.7557 456688.5533 0.0000 **TP85** 6201170.6535 456898.6346 0.0000 TX3 6200252.8966 457175.8506 0.0000 TX4 6198593.6564 456960.7680 0.0000 TP72 6201517.1539 456881.0539 0.0000 TP73 6201648.8985 456962.2645 0.0000 **TP74** 6201513.6508 456902.7103 0.0000 TP75 6201670.3500 457104.0209 0.0000 TP76 6201480.0548 457100.8259 0.0000 **TP77** 6201348.9896 456996.4719 0.0000 **TP78** 6201313.8316 456824.0265 0.0000 TP79 6201276.3093 456671.8032 0.0000 **TP80** 6201240.3625 456403.3213 0.0000 **TP81** 6201087.0336 456265.6857 0.0000

TP82 6201003.3199 456143.1236 0.0000 **TP83** 6201053.7324 456570.5084 0.0000 TP86 6201321.7197 456107.1743 0.0000 **TP87** 6201148.0924 455983.2079 0.0000 **TP89** 6201020.4563 455781.4235 0.0000 TP99 6202171.9466 455354.7202 0.0000 **TP91** 6202848.7832 455681.7618 0.0000 T-RB-STA1 6202916.7332 455910.8372 0.0000 T-91G1 6202906.4991 455874.5704 0.0000 T-R92B 6203027.7266 455926.6098 0.0000 **TP92** 6202984.0584 455987.8823 0.0000 T-R92C 6203067.3276 455945.6456 0.0000 T-H1A 6202960.3698 455772.9279 0.0000 TP93 6203090.3939 455906.1914 0.0000 **TP94** 6202969.0492 455708.2548 0.0000

T-H2A 6202959.4316 455651.2630 0.0000 T-R92L1 6202447.9100 455502.7429 1854.2740 **TP95** 6203190.1388 455587.4760 0.0000 TP96 6203291.1491 455503.5961 0.0000 **TP97** 6203368.6083 455471.8471 0.0000 **TP98** 6202515.5954 455135.4355 0.0000 TX9 6202412.4494 457305.3320 0.0000 TX5 6200177.8386 454892.8436 0.0000 TX6 6200046.2093 453729.5918 0.0000 **TP105** 6198868.0046 455098.1753 0.0000 **TP106** 6198256.9844 454766.9253 0.0000 **TP107** 6197020.2573 454392.6664 0.0000 **TP206** 6201429.1622 455567.8268 0.0000 **TP205** 6201182.8305 455818.2733 0.0000 **TP204** 6201091.5176 455584.7118 0.0000 TP207 6201270.0991 455515.2048 0.0000 TP208 6201415.6715 455210.8688 0.0000 TP209 6201214.1390 455173.7183 0.0000 SURVEY.TXT

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GL500/150S 200S 250S 300S 350S 400S 450S 550S 600S 650S 700S 750S 800S 850S 900S	1869.7 1876.7 1886.4 1885.3 1877.6 1868.2 1845.3 1822.8 1796.9 1785.5 1777.7 1777.1 1765.9 1765.9 1762.9 1748.2
GL600/100S 150S 200S 250S 300S 350S 400S 450S 550S 550S 600S 650S 700S 750S 800S 850S 900S	1884.2 1891.6 1895.6 1895.6 1873.5 1864.0 1854.7 1840.0 1832.3 1807.7 1785.1 1767.0 1760.8 1748.7 1740.3 1727.3 1729.7
GL700/700N 650N 600N 550N 500N 450N 400N 350N 300N 250N 200N 150N 100N 50S 100S 150S 200S 250S	1699.0 1715.0 1731.1 1728.0 1725.1 1732.1 1740.2 1741.8 1747.0 1767.6 1787.1 1794.1 1816.0 1839.1 1860.0 1881.1 1889.0 1867.2 1852.0 1852.0 1837.8

300S 350S 400S 450S 550S 600S 650S 700S 750S 800S 850S 900S	1820.9 1809.3 1797.0 1778.3 1764.0 1752.0 1731.4 1734.3 1729.7 1702.7 1691.9 1684.4 1674.4
GL800/ 00N 50S 100S 150S 200S 250S 300S 350S 400S 450S 550S 600S 550S 600S 650S 700S 750S 800S 850S 900S	1892.8 1889.9 1873.3 1862.2 1822.0 1789.0 1774.1 1757.7 1753.8 1749.1 1738.0 1713.5 1687.2 1670.2 1654.9 1633.0 1617.5 1607.0 1594.1
GL900/100N 50N 00N 50S 100S 150S 200S 250S 300S 350S 400S 450S 550S 600S 650S 700S 750S 800S 850S 900S	1900.5 1894.6 1886.7 1861.4 1831.2 1803.2 1772.9 1759.1 1735.5 1721.7 1710.4 1700.0 1691.9 1685.2 1674.3 1648.2 1634.7 1622.6 1613.4 1604.5 1590.9

150N	1897.3
100N	1894.6
50N	1878.6
OON	1857.9
505	1837.1
1005	1811.5
1505	1792.5
2005	1778.3
250S	1759.3
300S	1740.4
350S	1726.0
400S	1713.1
450S	1699.8
500S	1686.5
550S	1672.0
600S	1657.4
650S	1642.8
7005	1628.2
7505	1613.6
8005	1606.2
850S	1594.1
9005	1582.0
9005	1502.0
GL1100/350N	1950.0
300N	1956.2
250N	1950.0
200N	1953.5
150N	1942.0
100N	1918.2
50N	1903.7
OON	1873.1
50S	1848.2
1005	1827.1
150S	1811.5
2005	1794.0
250S	1775.8
300S	1761.6
350S	1749.3
4005	1727.8
450S	1717.9
500S	1701.4
550S	1682.5
600S	1671.0
650S	1659.5
700S	1648.0
750S	1636.1
8005	1617.7
8505	1608.8
9005	1592.0
GL1200/400N	1996.4
350N	1998.8
300N	2011.5
250N	1998.0
200N	1999.3
	1988.0
150N 100N	1975.4
100N	
50N	1959.1

00N 50S 100S 150S 200S 250S 300S 350S 400S 450S 550S 600S 650S 700S 750S 800S 850S 900S	1933.6 1907.0 1890.3 1872.1 1850.5 1832.2 1823.4 1799.9 1779.5 1765.2 1751.6 1730.0 1720.0 1708.9 1690.3 1680.6 1661.1 1642.8 1614.1
GL1300/300N 250N 200N 150N 100N 50N 00N 50S 100S 150S 200S 250S 300S 350S 400S 450S 550S 600S 650S 700S 750S 800S 850S 900S	2028.0 2035.1 2039.8 2038.0 2049.8 2022.5 1995.0 1979.0 1945.3 1930.6 1912.8 1892.2 1878.3 1864.4 1843.4 1828.0 1809.5 1796.3 1796.3 1780.5 1766.9 1747.4 1728.5 1716.8 1695.5 1680.4
GL1400/150N 100N 50N 00N 50S 100S 150S 200S 250S 300S 350S	2123.1 2107.1 2091.1 2050.8 2024.7 1998.5 1986.5 1961.2 1952.5 1934.1 1916.3

400S 450S 500S 550S 600S 650S 700S 750S 800S 850S 900S	1898.6 1882.1 1863.6 1857.3 1846.7 1826.6 1807.0 1802.0 1788.7 1771.1 1750.8
GL1500/200N 150N 100N 50N 00N 50S 100S 150S 200S 250S 300S 350S 400S 450S 550S 600S 650S 700S 750S 800S 850S	2138.0 2142.1 2147.5 2134.1 2113.5 2078.2 2054.5 2030.8 2008.6 1995.0 1988.5 1961.8 1941.8 1933.2 1931.5 1915.2 1892.9 1875.3 1858.4 1839.5 1812.4 1784.6
GL1600/50N 00N 50S 100S 150S 200S 250S 300S 350S 400S 450S 550S 600S 650S 700S 750S 800S 850S 900S	2122.4 2141.6 2102.1 2084.6 2067.1 2038.3 2016.4 2004.8 1993.1 1981.4 1973.1 1962.6 1939.6 1915.5 1896.3 1876.8 1856.8 1856.8 1830.0 1807.7 1793.3

GL1700/00N 50S 100S 150S 200S 250S 300S 350S 400S 450S 550S 600S 650S 700S 750S 800S 850S 900S	2132.1 2122.4 2103.0 2086.8 2055.0 2034.3 2022.1 2013.7 1994.6 1984.6 1966.0 1947.1 1928.5 1902.0 1886.7 1867.1 1849.8 1841.5 1811.6
GL1800/50S 100S 150S 200S 250S 300S 350S 400S 450S 550S 600S 650S 700S 750S 800S 850S 900S	2107.9 2100.0 2080.0 2066.1 2050.0 2015.0 2001.8 1984.6 1969.0 1948.8 1926.3 1912.1 1895.0 1878.1 1853.0 1841.5 1827.0
GL1900/100S 150S 200S 250S 300S 350S 400S 450S 550S 600S 650S 700S 750S 800S 850S 900S	2076.6 2075.0 2061.8 2033.5 2021.2 2006.5 1985.6 1984.2 1958.5 1940.0 1926.2 1911.6 1890.0 1869.3 1852.7 1842.5 1828.3

APPENDIX B

SURVEY INSTRUMENT SPECIFICATIONS



Efficient electronic total station

TELESCOPE

SPECIFICATIONS

Measuring range

The range is 1000m to one prism, and 1600m to three prisms.

Angle measurement ability

Minimum display is 5 seconds, and the accuracy is also 5 seconds.

Diametrical detection system

Photoelectric detectors scan the diametrically opposite sides of both the horizontal and vertical circles.

Automatic compensator

The liquid type tilt sensor corrects the vertical circle reading from the standing axis inclination.



Display and keyboard

The SET 4 has two illuminated LCDs and a light-touch latex keyboard on each face.

Functions

The fife key. Making it possible to transfer data without awaiting a 'request' command from the connected external device.

The **100** key. This key must be pressed prior to the **127** or **116** in order to activate their functions.



Lower clamp slide cover

The lower fine motion screw has been removed, and the lower clamp is guarded from accidental handling, by a slide cover.

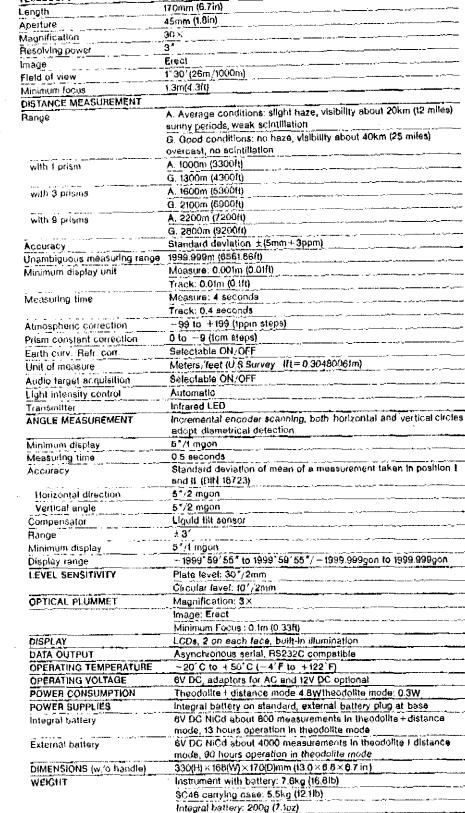
Data output



RS232C data output connects directly to the powerful Sokkisha SDR2 electronic field book, or to a computer.

Battery

Lightweight and compatible with the SET 2, SET 3, SDM3F(R), and RED MM 2.



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THE REPORT OF STREET

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VICTOR

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