

**Assessment Report on a Rotasonic Drilling Program
Performed by Overburden Drilling Management**

And

**A VLF – EM Survey
Performed by Aurora Geoscience**

**on the
Indian River Gold Project
for
Boulder Mining Corporation**

094696

**Located on Claim Sheets 1150/11 and 1150/15 in the Dawson Mining
District**

Yukon, CANADA

Claim Names:

PEBBLE 1-36, FEN 5-116, FEN 121-150, FEN 155-183, FEN 189-215,
FEN 225, FEN 227, FEN 229, FEN 231-246, FEN 263-276, FEN 291-306,
FEN 319, FEN 321, FEN 323-325, FEN 327, FEN 329-332, FEN 343,
FEN 346-348, FEN 521, FEN 523-544

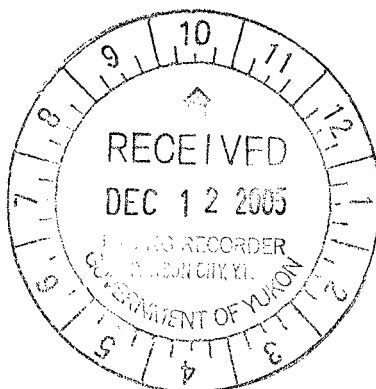
Claim Grant #:

YC33109-YC33144, YC33151-YC33262, YC33267-YC33296, YC33301-
YC33329, YC33335-YC33361, YC33371, YC33373, YC33375, YC33377-
YC33392, YC33409-YC33422, YC33437-YC33452, YC33465, YC33467,
YC33469-YC33471, YC33473, YC33475-YC33478, YC33489, YC33491-
YC33493, YC33667, YC33669-YC33690

**Approximate Centre of Claim group: UTM Datum NAD 83, Zone 7.
Northing: 7069000 Easting: 587000**

**John H. McAdam
B.Sc., P.Eng.**

December 9, 2005



**Work dates:
25 June 2004 - 3 Aug 2004**

Costs associated with this report have been
approved in the amount of \$ 160,000
for assessment credit under Certificate of
Work No. 2000626

K. Perry

Mining Recorder
Dawson City Mining District

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Appendix A -Information from the 2004 rotasonic drill program at the Indian River Gold Project including drill logs and select plates, tables and maps from Averill et al, November 30, 2004.

Appendix B – Memorandum from Aurora Geoscience on the VLF Electromagnetic survey performed on the Indian River Gold Project

INTRODUCTION

This assessment report describes work programs consisting of a rotasonic drill program and a VLF – EM survey conducted on the Indian River Gold Project located south of Dawson City, Yukon. Boulder Mining Corporation acquired the rights to earn a 100% interest in the Indian River Property from Western Prospector Group who in turn have rights to earn a 100% interest in the Indian River Property from Peter Risby. The property was acquired for its alluvial gold potential but the scope of the exploration has expanded to evaluate potential hardrock sources of gold. A large group of quartz claims were staked and later rationalized to a smaller group which underlie and are immediately adjacent to the placer claims subject to the original agreement.

LOCATION

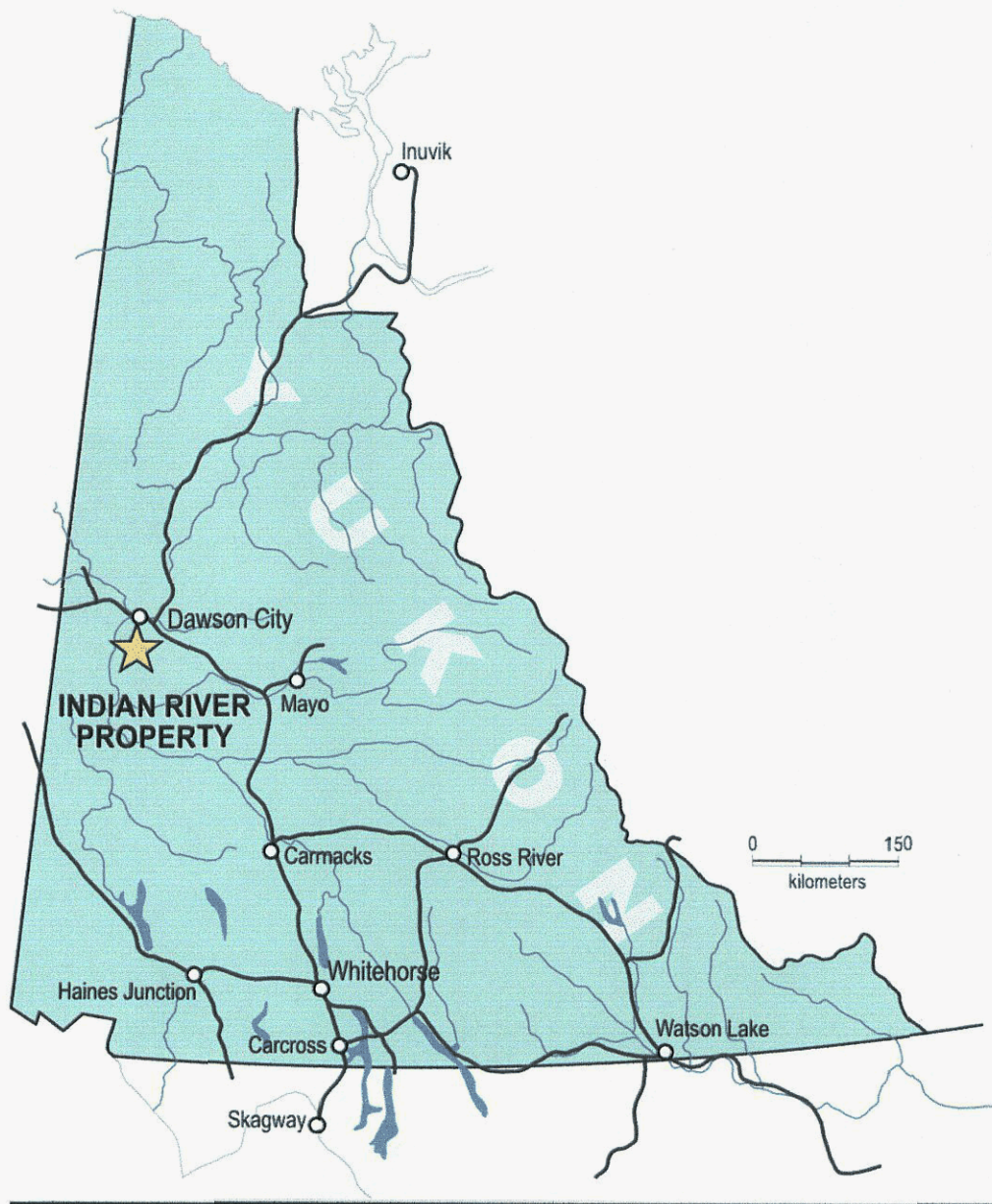
The Indian River Hard Rock Gold Project is located approximately 30 km south of Dawson City along and south of the Indian River from approximately Quartz Creek in the east to approximately 2 km west of Ophir Creek in the west. The quartz claim package to which the work program reported upon herein is being applied for renewal is comprised of 321 quartz claims.

CLAIMS

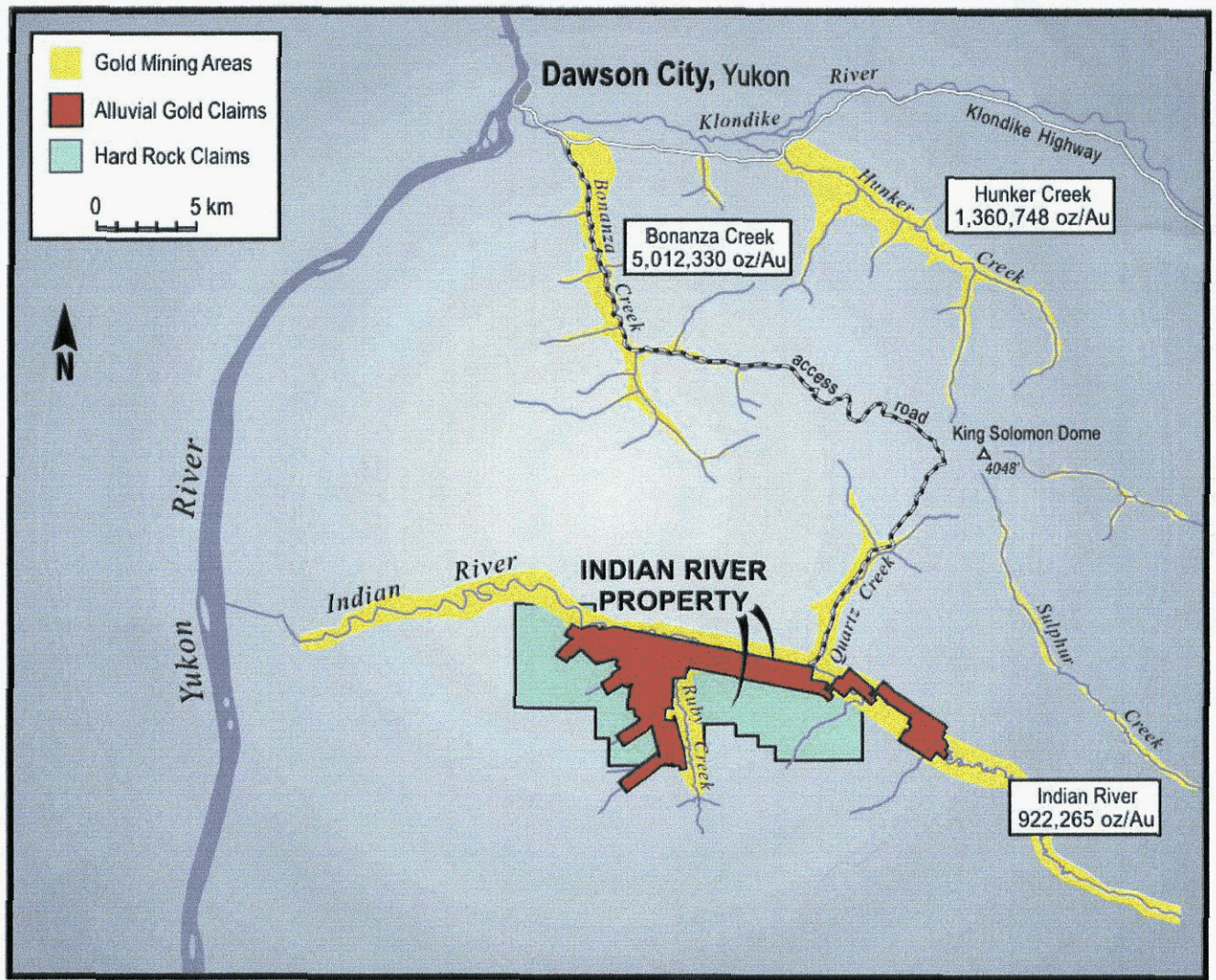
The exploration programs were conducted on the following claims which are registered in the name of Boulder Mining Corporation whose office is located at Suite 800, 850 West Hastings Street, Vancouver, B.C., V6C 1E1.

<u>Claim Name</u>	<u>Claim Number</u>
PEBBLE 1-36	YC33109-YC33144
FEN 5-116	YC33151-YC33262
FEN 121-150	YC33267-YC33296
FEN 155-183	YC33301-YC33329
FEN 189-215	YC33335-YC33361
FEN 225	YC33371
FEN 227	YC33373
FEN 229	YC33375
FEN 231-246	YC33377-YC33392
FEN 263-276	YC33409-YC33422
FEN 291-306	YC33437-YC33452
FEN 319	YC33465
FEN 321	YC33467
FEN 323-325	YC33469-YC33471
FEN 327	YC33473
FEN 329-332	YC33475-YC33478
FEN 343	YC33489
FEN 346-348	YC33491-YC33493
FEN 521	YC33667
FEN 523-544	YC33669-YC33690

The approximate centre of the Claim Group using UTM Datum NAD 83, Zone 7 is: Northing: 7069000 Easting: 587000.
All claims lie on Claim sheet 115O/15 and /or on adjacent Claim Sheet 115O/11.



LOCATION MAP: INDIAN RIVER GOLD PROJECT



LOCATION MAP SHOWING QUARTZ AND PLACER CLAIMS – INDIAN RIVER GOLD PROJECT

BACKGROUND

In the spring of 2004, Boulder Mining optioned the Indian River Gold Project from Western Prospector Group. Whereas the main reason for optioning the project was for its alluvial gold potential, naturally the question of the source of the alluvial gold and whether it could be an interesting target in its own right was raised. A large quartz claim group was staked over the summer and fall of 2004 to cover the possibility of a bedrock source being identified by the ongoing alluvial exploration programs.

Conceptually, three hard rock precious metal target types have been identified;

- 1) basement hosted targets most likely to be structurally controlled
- 2) paleo-placer deposits hosted within the Cretaceous conglomerates overlying the basement and
- 3) epithermal targets related to the Carmacks volcanic rocks overlying all the above rock units

A rotasonic drill program was initiated in June 2004 to test; 1) the Down Stream Bench; the area on the south bank on the Indian River west of Ruby Creek; 2) Ruby Bench itself which extends south of Indian River along the west side of Ruby Creek and 3) the Upstream Bench located east of Quartz Creek on the north side of Indian River.

The exploration philosophy was to drill through the overburden and gravels and into the bedrock. Alluvial information was collected but is not the subject of this report and nor are the costs associated with processing the alluvial material included in the filing of assessment credits for quartz claims.

The Downstream Bench is an interesting geologic area in that the Cretaceous sediments thin out and ultimately disappear as one progresses to the west and to the south. The actual basement-sediment contact; if structural, could be an interesting conduit for mineralizing fluids or if depositional, could be particularly interesting if the basal unit was a conglomerate.

In the course of the Rotasonic drill program, Hole 44 returned over 1601 gold grains from a sample that straddled the bedrock overburden contact. The abundance of grains combined with the fact that most were pristine and of delicate form, suggests that the gold was derived locally. An attempt to trench to bedrock did not succeed but a VLF test line showed a well defined VLF crossover approximately 15 metres north of the hole. This prompted the thought that there could be significant shear zones in the Indian River Valley and hence the VLF survey.

The geology the region is presented on Canada Department of Mines and Resources on Map 711 A of the Ogilvie Territory; geology by H.S. Bostock 1935,

1936 and 1937. The Indian River Project is located in the north central area of the map.

A more recent geological reference is Geological Survey of Canada, Open File Report 4641, Stewart River Area by Ryan, J.J. and Gordey, S.P. published in 2004.

ROTASONIC DRILL PROGRAM

In the period June 25 to August 03, 2004, sixty one rotasonic drill holes totaling 552 metres averaging 9.1 m each were drilled including six holes that did not reach bedrock. Drill hole locations are presented on Maps 3 and 4 on Pages 11 and 12 respectively. Whereas the drilling recovered both the overburden and bedrock sections only the bedrock portion of the program is reported herein. An unpublished report by Averill, Holmes and Keays of Overburden Drilling Management of Nepean, Ontario dated November 2004 reported on the drill program. Exerpts relating to the hardrock portion of the program from that report are reproduced below in italics font. Note that tables, plates and maps referred to in italics sections are presented in Appendix A along with the drill logs.

3. DRILLING SAMPLING AND SAMPLE PROCEDURES

3.1 Contractors and Personnel

John McAdam, P.Eng. President and Nelson Baker, P.Eng. Vice-President Exploration of Boulder Mining directed the drilling program. Two sedimentologists, Faye Nelson and Bryson Malmberg, represented Boulder Mining in the field and provided general support for the program including data plotting. SDS Drilling of Calgary, Alberta, a division of Boart Longyear Inc., was awarded the drilling contract. Brent McAndrew and Anwar Hak alternated as lead drillers and were assisted by John Cramm and Jesse Hubbard. Voight Enterprises of Dawson City fabricated the core boxes. As on the backhoe trenching program, Pete Risby provided invaluable field support, sharing his detailed knowledge of the property, its geology and Klondike operating conditions. Helen Doughty of Dawson City was camp manager and cook.

ODM (Overburden Drilling Management of Nepean, Ontario) laid out most of the drill holes, supervised the drilling, logged and sampled the core... Three ODM geologists participated in the fieldwork. Stu Averill, P.Geo., supervised startup operations and logged eight of the first ten drill holes. He overlapped with and was succeeded by Don Holmes P.Geo. who then overlapped with and was succeeded by Stephen Keays. After Don's departure, Christine Fontaine of Victoria, B.C. assisted Stephen at the drill. Will Averill of ODM assisted by Boulder Mining's Kristen McAdam and Bryson Malmberg, performed the field sample processing. Final processing at ODM's laboratory was supervised by Remy Huneault, P.Geo, Laboratory Manager and Mike Crawford, Production Manager.

3.2 Drill Specifications

.... The drilling equipment was mounted on the platforms of two Nodwell FN160 belt-tracked carriers which operated back to back (Plates 1b,c) One Nodwell held the drill and an electric-arc welder for repair work. At the back were two hydraulic jacks for supporting and leveling the rig on soft or uneven ground and a hinged platform for joining it to the second Nodwell which was equipped with a water tank, a deck for the drill pipe and an articulated hoist for slinging the heavy pipe into position. The pipe consisted of: 1) 10 foot core barrels of 6-1/8 inches O.D. x 5-1/2 inches I.D.; 2) 2-foot and 10 foot casing lengths of 7- 5/8 inches O.D. x 6-3/4 inches I.D. which was used to seal the hole and prevent caving of the gravel whenever the full core barrels were withdrawn for sampling and to reduce weight 3) small diameter (3-1/2 inches O.D. x 2 inches I.D.) extension rods which were added above the core barrel(s) as the hole was deepened. The casing had the same 9/16 inch kerf (7-3/4 inches O.D. x 6 5/8 inches I.D.) as the drill bit.

All pipe was steam cleaned prior to the drilling program to prevent fouling of the samples by metallic grease or other contaminants. An organic grease meeting modern environmental standards was employed on the project.

3.3 Drilling Procedures

Rotasonic drilling uses a combination of slow pipe rotation and high frequency "sonic" vibrations to core unconsolidated overburden with a minimum disturbance. Drilling fluid (plain water) is required only in the hardest bedrock or boulders and very representative core samples are obtained. The sonic vibrations are generated by an unbalanced cam rotating within a large top-drive head (Plates 1d,e) that is air cushioned to isolate the vibrations from the rig. The head also incorporates a tilting mechanism (Plate 1f) for transferring pipe sections to and from the second Nodwell. A breakout tool at the base of the mast (Plate 1d) contains two hydraulic jaw-clamps, the upper one rotating and the lower one fixed, for coupling and uncoupling the pipe sections.

The frequency of the sonic vibrations is adjustable for optimum penetration in different formations. The core obtained may be equal in length to, longer than or shorter than the interval drilled. Long core is common in plastic formations where material displaced by the thick kerf of the bit tends to flow into the core barrel. Short core normally indicates obstruction of the bit by a tree root or boulder when advancing the hole or sample loss from the open bottom of the core barrel when retrieving the core.....

3.4

Core logging and Sampling Procedures

The geographic co-ordinates and elevations of the drill holes were measured by GPS (Table 1). The elevations were accurate only to plus or minus 5 m, resulting in a variability of up to 10m in the collars of neighbouring holes drilled at the same elevation. This much variability can cause considerable distortion when plotting stratigraphic sections. The holes were prefixed IRS-04 (ie. Indian River sonic 2004) and were numbered in the sequence drilled. The core samples from each hole, whether of unconsolidated overburden or consolidated bedrock, were numbered in the sequence collected.

The drill hole logs (Appendix A) were very comprehensive and included documentation of; 1) all travel, drilling and moving hours and any mechanical downtime or other interruptions; 2) the number of coring and casing runs completed and the depth of each run; 3) the drilling resistance (low or high, even or uneven etc.) especially any sudden changes in resistance that could establish the true depth of geological contacts in cases where the length of the core was longer or shorter than the interval drilled; 4) the actual length of the core recovered on each run as determined by measuring the void in the top of the core barrel(s) before disgorging the core; 5) the number of 1-metre core boxes used and the depth interval contained in each box; 6) the geological characteristics and stratigraphy of the core; and 7) the sample numbers and their intervals. For consistency with the metric grid, all depths were recorded in metres using a conversion factor of 3 metres for each 10 foot pipe section which produces an error of only 1.6 %.....

Durable waterproof labels were made from Tyvek building paper and inscribed by indelible marker were stapled onto the core boxes.... A plain white label showing the hole and box number was placed on the head end of the box before filling it with core. White labels overlain with coloured stickers were then stapled to the top edges of the box to index the core, with green labels recording the hole depth at the head of the box and any other useful reference points such as geological contacts and the end of the hole, and pink labels recording the starting depths of all samples. Plywood lids were then screwed onto the boxes to secure the core for transfer to the field laboratory.....

3.5

Sample Processing Procedures

The labeled core was photographed in the field laboratory to produce a continuous pictorial record of every drill hole.....

Overburden samples were processed for their alluvial content but this is not the subject of this report. Bedrock was logged and studied as to its character including rock type, structural deformation and alteration. All bedrock samples were archived in the field at the Risby Camp Location on the Indian River.

4.

RESULTS

4.1

Bedrock Geology

The drilling established that the Cretaceous cover rocks extend up to 4 km westward over the Yukon Schist (Nasina Series) from their outcrop limit. They underlie all of Ruby Bench. On the Downstream Bench, the contact with the Yukon Schist trends NNE between lines 46 and 48 E and then bends sharply WNW along the base line to the Indian River.

The Cretaceous intersections consist mainly of the pelite and muddy psammite that dominate the lower part of the Cretaceous succession Lowey, 1983). Intersections of quartz-pebble conglomerate such as that was encountered in Hole 05 are uncommon. The Yukon Schist consists of the usual chloritic to sericitic metagreywacke and siltstone. Garnet was observed in the Hole 44 intersection.

Averill et al November 30, 2004 also reported in the section 4.3 Gold grain Abundance and Size ... However in Sample 02 from Hole 44 (located in the west portion of the property) which yielded more gold (1601) than any other sample, most of the grains are pristine and unusually small (silt sized). The anomalous section straddles the Klondike gravel/bedrock contact and the pristinity of the gold grains suggests that they are derived from the bedrock and were liberated by drilling. Examination of the 2-6 mm jig reject showed it to consist of subequally well worn gravel granules of distal provenance, none of which appear to be fertile for gold, and angular, weakly garnetiferous biotite metapelite (Yukon Schist) bedrock fragments containing conformable quartz stringers which appear to represent ordinary metamorphic neosome rather than hydrothermal veinlets. The coarser (+6mm) archived fraction of the sample was retrieved from the field storehouse along with the unprocessed Sample 03 of the more solid underlying bedrock. Both were found to consist entirely of the biotite schist. Micropanning of a milled 250 g subsample yielded 224 gold grains with a calculated assay value of 0.16 g/t from the 2-6mm fraction of Sample 02 (Table 5) but only two grains from the coarser, 6-25 mm fraction of this sample and no grains from Sample 03. It would appear that the gold was confined to a thin seam in the bedrock interval of Sample 02 and that this seam was less competent (more altered) than the rest of the bedrock and was reduced to smaller fragments by the drill.

Averill et al November 30, 2004 concluded on the hard rock potential that: The lode gold mineralization detected in the Yukon schist at Hole 44 also appears to be minor. However, the gold bearing Cretaceous quartz-pebble conglomerate is essentially untested and remains a worthy exploration target.

<u>Names of employees</u>		<u>Days in</u>	<u>Hourly Pay</u>	<u>Wages paid</u>	<u>Contractors</u>
		<u>Camp</u>	<u>Rate</u>		<u>Paid</u>
<u>Boulder Mining Corporation - June 20 - August 8, 2004</u>					
John McAdam	Director of Drill Program	10	31.25	2,500.00	
Nelson Baker	Director of Drill Program	14	29.17	3,266.67	
Faye Nelson	sedimentologist	50	19.00	9,500.00	
Bryson Malmberg	sedimentologist	50	18.00	9,000.00	
Helen Doughty	camp cook	50	20.00	10,000.00	
Christine Fontaine	drilling log assistant	32	15.00	4,800.00	
Kristen McAdam	field sample processing assistant	45	13.00	5,850.00	
<u>SDS Drilling - June 20 - August 8, 2004</u>					
	drilling contract				184,548.50
	mobilization and de-mobilization				45,000.00
Brent McAndrew	Lead driller	50			
Anwar Hak	Lead driller	40			
John Cramm	driller assistant	40			
Jesse Hubbard	driller assistant	40			
<u>Overburden Drilling Management - June 24 - August 5, 2004</u>					25,078.44
Stu Averill, P.Geo	drill program layout and supervision	16			
Don Holmes, P.Geo	drill program layout and supervision	16			
Steven Keays	drill program layout and supervision	16			
Will Averill	sampling program supervision	32			
Remy Huneault, P.Geo	Laboratory Manager - ODM	0			
Mike Crawford	Production Manager - ODM	0			
<u>Consultant - June 20 - August 8, 2004</u>					
Peter Risby	field support	50	20.00	10,000.00	
<u>Aurora Geosciences - Nov. 11 - Nov. 20, 2004</u>					9,540.00
Shawn Horte, C.E.T.	Geological Technician / crew chief	0			
Casey Adshead, C.E.T.	Geological Technician	0			
Calvin Delwisch	Helper	0			
<u>Voigt Enterprises - Fabrication of core boxes - June 24, 2004</u>					2,242.00
total camp days		<u>551</u>			
Cost per man day		42.19			
camp costs claimed		<u>23,244.94</u>			
consulting & wages				<u>54,916.67</u>	
Contractors paid					<u>266,406.94</u>
Total costs claimed		<u>344,568.55</u>			

VLF SURVEY

In the course of the Rotosonic drill program, Hole 44 returned over 1601 gold grains from a sample that straddled the bedrock overburden contact. The abundance of grains combined with the fact that most were pristine and of delicate form, suggests that the gold was derived locally. An attempt to trench to bedrock did not succeed but a VLF test line showed a well defined VLF crossover approximately 15 metres north of the hole. This prompted the thought that there could be significant shear zones in the Indian River Valley and hence the VLF survey might be able to detect such major structures.

A memo by Mike Power of Aurora Geoscience of Whitehorse, Yukon is included as Appendix B. This memo details the specifics of the VLF survey, personnel, instrumentation as well as the data collected and a presentation of the profiles. Maps 3 and 4 on Pages 11 and 12 respectively illustrate the area of the VLF EM survey.

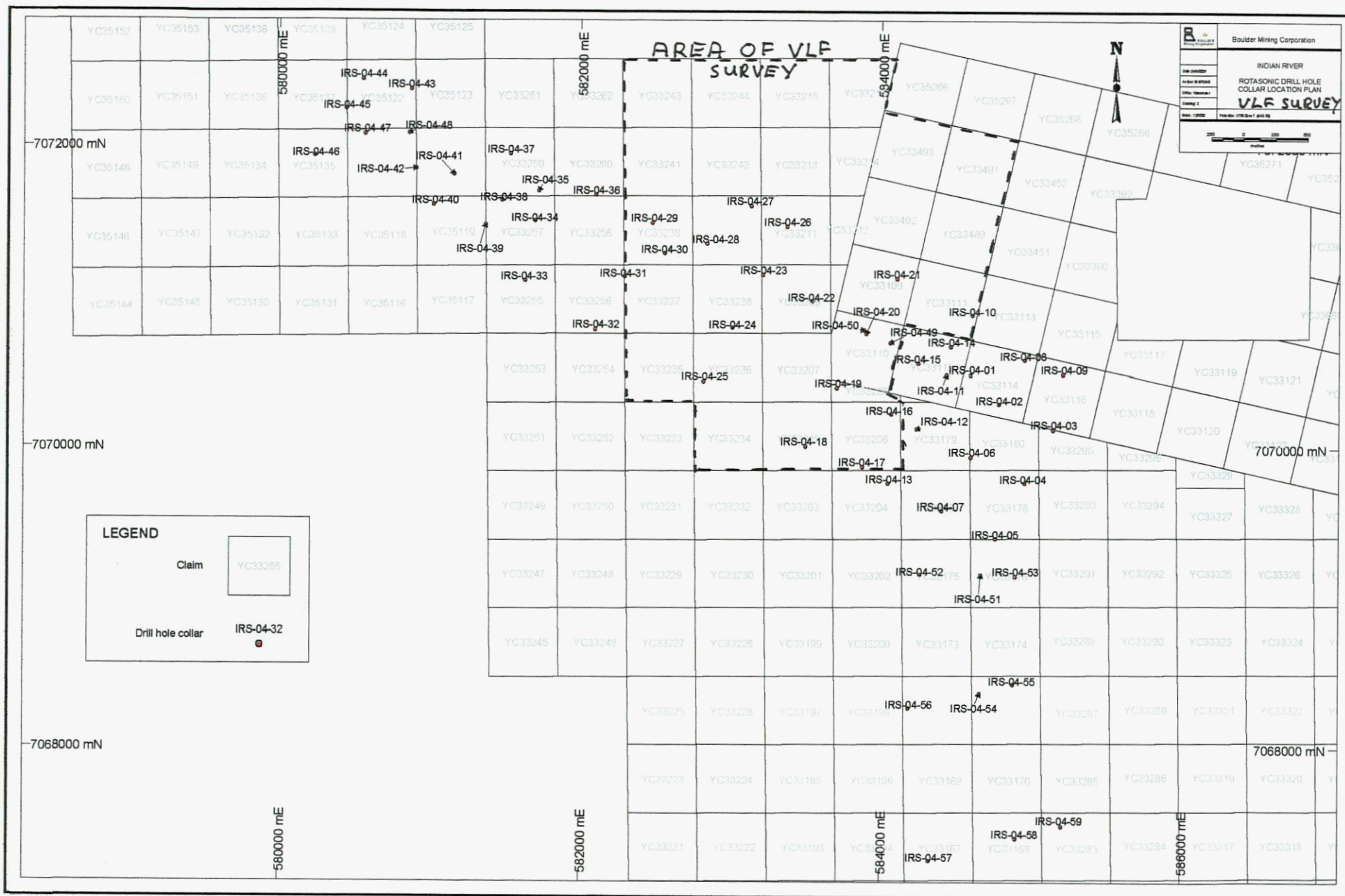
VLF RESULTS

The collection of data was difficult due to weak signals. Perhaps the survey data would have been more effective if an electronic nulling VLF system were used. Whereas there are several short conductors no large through going conductive feature was detected. On balance, the lack of long linear conductive features down graded the Indian River Valley as a potential host of major structures.

STATEMENT OF EXPENDITURES

The following expenditures were incurred on the drilling and VLF programs in 2004:

Drilling Costs – SDS drilling	\$ 229,546.50
Camp Costs	\$ 105,482.05
VLF Survey Costs	\$ <u>9,540.00</u>
Expenditures applied to renewal of Quartz claims	\$ <u>344,568.55</u>



REFERENCES:

Averill, S.A, Holmes, DRS, Keays, S.M, November 30, 2004, Investigation of the Gravel Stratigraphy and Gold grades in the Downstream and Ruby Benches by Rotasonic Core Drilling; Overburden Drilling Management Limited, Nepean, Ontario

Bostock, H.S., 1942, Ogilvie, Yukon Territory, Canada Department of Mines and Resources, Map 711 A

Ryan, J.J. and Gordey, S.P, 2004, Geological Survey of Canada, Open File Report 4641, Stewart River Area.

STATEMENT OF QUALIFICATIONS

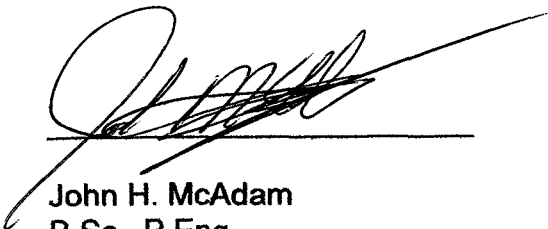
I am a member of the Association of Professional Engineers registered in the Provinces of British Columbia and Ontario.

I graduated from Queen's University with a Bachelor of Science with Honours in Geological Engineering in May 1978.

I have worked in the mineral exploration business since 1978.

I have been involved with the planning and execution of many drill programs and VLF – EM surveys.

I am President, a Director and a shareholder of Boulder Mining Corporation.



John H. McAdam
B.Sc., P.Eng.

December 9, 2005

APPENDIX A

Information from the 2004 rotasonic drill program at the Indian River Gold Project including drill logs and select plates, tables and maps from Averill et al, November 30, 2004.



Plate 1a - Coring (left) and casing bits for the 4-inch system. The larger bits of the 6-inch system used at Indian River have the same $\frac{9}{16}$ -inch kerf.



Plate 1b - Overview of the rig showing the the belt-tracked drilling and support Nodwells parked back-to-back and joined by a working platform. Note the hydraulic leveling jacks (J) under the drilling Nodwell and the drill pipe (P), hydraulic hoist (H) and water tank (W) on the support Nodwell.



Plate 1c - Overview of the rig in operation at Hole 09 on the Downstream Bench. The former spruce forest in the foreground had been cleared for possible future mining and the remaining forest was razed by fire three days after the hole was drilled.



Plate 1 d - Detail of the drill mast showing: 1) the rotasonic head (RH) raised to add a 3-m length of pipe; 2) the hydraulic breakout tool (B) at the base for coupling and uncoupling pipe; and 3) five white index marks (a sixth is hidden behind the breakout tool) at half-metre and full-metre intervals for 3 m to ascertain the depth of the hole from the position of the top of the drill pipe. The head is equipped with a dual-tube spindle (S) threaded to receive small-diameter extension rods and large-diameter casing.

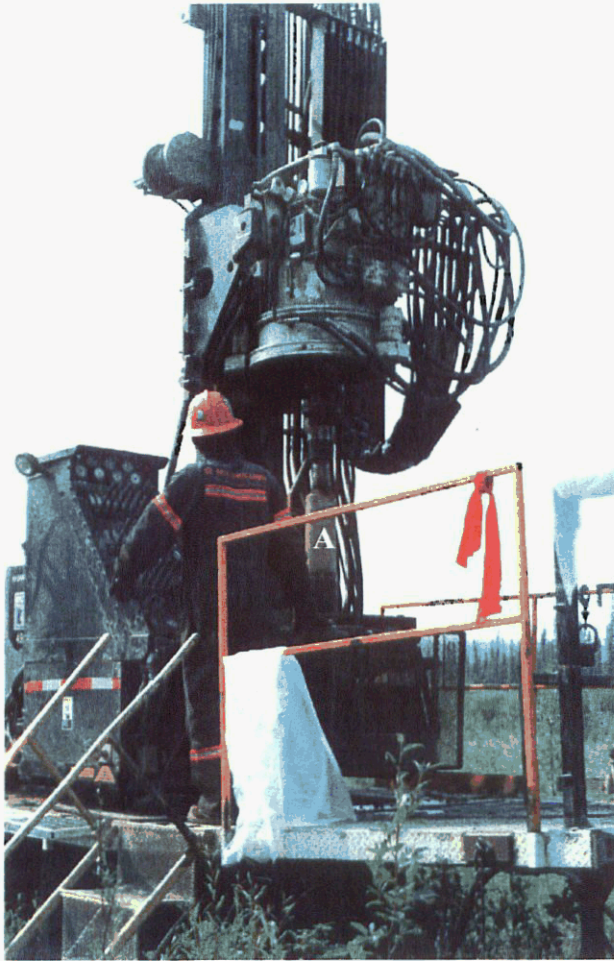


Plate 1e - Detail of the drill head showing the adapter (A) employed to attach the large-diameter core barrels to the small-diameter extension rods or inner tube of the spindle.



Plate 1f - Detail of the drill head tilted to receive a heavy core barrel which is slung into position with the hydraulic hoist (H).

Hole	GPS Co-ordinates (NAD 83, Zone 7)		Elevation (masl)	Total Depth (m)	No. of Samples	Stratigraphy					
	Easting	Northing				Humus	Silt	Klondike Gravel	White Channel Gravel	Ruby Gravel	Bedrock
IRS04-01	584594	7070485	444	6.8	5	0.0-1.0	Absent	0.1-4.8	Absent	Absent	4.8-6.8
IRS04-02	584784	7070294	440	7.5	4	0.0-0.4	0.4-2.4	2.4-5.5	Absent	Absent	5.5-7.5
IRS04-03	585145	7070121	440	7.5	4	Absent	0.0-2.8	2.8-6.1	Absent	Absent	6.1-7.5
IRS04-04	584956	7069768	444	6.4	5	0.0-0.3	0.3-1.2	1.2-5.3	Absent	Absent	5.3-6.4
IRS04-05	584761	7069400	475	6.5	4	Absent	Absent	0.0-3.6	3.6-4.9	Absent	4.9-6.5
IRS04-06	584596	7069938	448	6.5	3	Absent	0.0-2.1	Absent	Absent	2.1-4.3	4.3-6.5
IRS04-07	584404	7069586	454	8.5	3	0.0-0.3	0.3-3.8	Absent	3.8-6.5	6.5-6.7	6.7-8.5
IRS04-08	584954	7070585	431	6.2	4	Absent	Absent	0.0-3.7	Absent	Absent	3.7-6.2
IRS04-09	585210	7070491	434	6.8	4	0.0-0.1	0.1-3.0	3.0-5.1	Absent	Absent	5.1-6.8
IRS04-10	584606	7070884	436	7.0	4	Absent	0.0-0.8	0.8-6.2	Absent	Absent	6.2-7.0
IRS04-11	584435	7070486	446	7.1	3	0.0-0.3	0.3-2.7	Absent	Absent	2.7-4.5	4.5-7.1
IRS04-12	584239	7070128	452	4.5	2	0.0-0.3	0.3-2.0	Absent	Absent	2.0-2.4	2.4-4.5
IRS04-13	584048	7069764	456	5.7	4	0.0-0.3	0.3-2.0	Absent	Absent	2.0-4.1	4.1-5.7
IRS04-14	584463	7070673	448	4.5	4	0.0-0.1	Absent	0.1-2.7	Absent	Absent	2.7-4.5
IRS04-15	584249	7070561	457	8.8	5	0.0-0.3	0.3-1.0	1.0-5.3	5.3-7.8	Absent	7.8-8.8
IRS04-16	584069	7070226	463	7.5	4	0.0-0.3	0.3-2.1	2.1-5.0	5.0-6.3	Absent	6.3-7.5
IRS04-17	583878	7069872	461	7.5	4	0.0-0.5	0.5-3.2	Absent	Absent	3.2-6.6	6.6-7.5
IRS04-18	583500	7070007	492	16.5	9	0.0-0.3	0.3-0.5	0.5-15.6	Absent	Absent	15.6-16.5
IRS04-19	583707	7070397	482	10.4	5	0.0-0.5	0.5-3.7	3.7-9.8	Absent	Absent	9.8-10.4
IRS04-20	583902	7070759	457	14.6	8	0.0-0.5	Absent	0.5-7.2	7.2-13.1	Absent	13.1-14.6
IRS04-21	584105	7071124	426	4.5	3	0.0-0.5	0.5-1.6	1.6-3.8	Absent	Absent	3.8-4.5
IRS04-22	583544	7070975	434	8.5	3	0.0-0.5	0.5-4.1	4.1-7.5	Absent	Absent	7.5-8.5
IRS04-23	583213	7071148	436	5.6	2	0.0-0.6	0.6-2.6	2.6-3.9	Absent	Absent	3.9-5.6
IRS04-24	583012	7070795	444	4.5	2	0.0-0.4	0.4-2.5	2.5-3.5	Absent	Absent	3.5-4.5
IRS04-25	582821	7070438	455	7.0	3	0.0-0.3	0.3-3.4	3.4-5.8	Absent	Absent	5.8-7.0
IRS04-26	583373	7071465	425	10.5	2	0.0-0.4	0.4-7.3	7.3-9.1	Absent	Absent	9.1-10.5
IRS04-27	583135	7071602	423	10.0	2	0.0-0.4	0.4-7.6	7.6-8.6	Absent	Absent	8.6-10.0
IRS04-28	582841	7071356	433	12.8	5	0.0-0.4	0.4-4.9	4.9-11.4	Absent	Absent	11.4-12.8
IRS04-29	582477	7071488	451	7.5	3	0.0-0.5	0.5-1.3	1.3-4.5	Absent	Absent	4.5-7.5
IRS04-30	582560	7071291	459	9.0	5	0.0-0.3	Absent	0.3-2.4	2.4-6.8	Absent	6.8-9.0
IRS04-31	582293	7071136	469	10.5	4	0.0-0.3	0.5-5.1	5.1-9.1	Absent	Absent	9.1-10.5
IRS04-32	582098	7070780	492	8.5	4	0.0-0.5	0.5-0.6	0.6-5.9	Absent	Absent	5.9-8.5
IRS04-33	581632	7071107	499	4.5	2	0.0-0.3	0.3-1.6	1.6-2.5	Absent	Absent	2.5-4.5
IRS04-34	581697	7071502	478	7.5	4	0.0-0.4	0.4-1.8	1.8-6.4	Absent	Absent	6.4-7.5
IRS04-35	581722	7071701	456	8.3	3	0.0-0.2	0.2-5.3	5.3-6.6	Absent	Absent	6.6-8.3
IRS04-36	582101	7071675	454	7.5	4	0.0-0.2	0.2-1.3	1.3-3.5	3.5-5.0	Absent	5.0-7.5
IRS04-37	581532	7071948	441	5.5	4	0.0-0.4	0.4-1.2	1.2-3.0	3.0-4.9	Absent	4.9-5.5
IRS04-38	581477	7071639	460	15.5	9	0.0-0.3	0.3-1.2	1.2-14.7	Absent	Absent	14.7-15.5
IRS04-39	581368	7071473	475	10.6	6	0.0-0.4	Absent	0.4-9.3	Absent	Absent	9.3-10.5
IRS04-40	581023	7071608	464	7.5	5	0.0-0.4	Absent	0.4-6.8	Absent	Absent	6.8-7.5
IRS04-41	581157	7071811	443	10.0	3	0.0-0.5	0.5-5.5	5.5-8.4	Absent	Absent	8.4-10.0
IRS04-42	580906	7071850	445	6.0	3	0.0-0.4	0.4-2.0	Absent	Absent	2.0-5.2	5.2-6.0
IRS04-43	580872	7072376	447	6.5	3	0.0-0.5	0.5-4.1	4.1-5.0	5.0-5.5	Absent	5.5-6.5
IRS04-44	580552	7072442	454	12.0	3	0.0-0.5	0.5-7.8	7.8-10.8	Absent	Absent	10.8-12.0
IRS04-45	580451	7072266	467	13.0	3	0.0-0.4	0.4-8.9	8.9-11.6	Absent	Absent	11.6-13.0
IRS04-46	580232	7071936	494	8.5	4	0.0-0.4	0.4-2.7	2.7-7.1	Absent	Absent	7.1-8.5
IRS04-47	580567	7072080	468	16.0	8	0.0-0.4	0.4-2.0	Absent	Absent	2.0-14.9	14.9-16.0
IRS04-48	580860	7072097	450	10.5	6	Absent	Absent	0.0-6.8	6.8-9.0	Absent	9.0-10.5
IRS04-49	584062	7070697	460	11.5	6	0.0-0.1	Absent	0.1-3.7	3.7-11.5	Absent	NA
IRS04-50	583885	7070782	465	9.5	6	0.0-0.2	Absent	0.2-5.7	5.7-7.9	Absent	7.9-9.5
IRS04-51	584665	7069156	500	9.2	4	0.0-0.4	0.4-2.2	Absent	Absent	2.2-6.6	6.6-9.2
IRS04-52	584262	7069159	492	7.5	4	0.0-0.5	0.5-0.7	Absent	Absent	0.7-5.9	5.9-7.5
IRS04-53	584894	7069145	485	7.5	4	0.0-0.4	Absent	Absent	Absent	0.4-7.5	NA
IRS04-54	584659	7068366	484	8.5	4	0.0-0.4	0.4-0.9	Absent	Absent	0.9-4.3	4.3-8.5
IRS04-55	584881	7068428	502	22.5	11	0.0-0.5	Absent	Absent	Absent	0.5-25.5	NA
IRS04-56	584188	7068268	512	5.8	3	0.0-0.4	0.4-0.8	Absent	Absent	0.8-3.1	3.1-5.0
IRS04-57	584326	7067248	529	6.0	2	0.0-0.4	0.4-2.2	Absent	Absent	2.2-2.5	2.5-6.0
IRS04-58	584901	7067397	503	9.2	4	0.0-0.4	0.4-9.2	Absent	Absent	Absent	NA
IRS04-59	585207	7067480	503	14.5	7	0.0-0.5	Absent	Absent	Absent	0.5-14.5	NA
IRS04-60	594851	7069674	481	13.5	7	0.1-0.3	Absent	0.3-2.2	2.2-13.5	Absent	NA
IRS04-61	593531	7070175	494	21.7	13	0.0-0.1	Absent	0.1-0.3	0.3-21.5	Absent	21.5-21.7
				552.0	271						

Table 1 - Drill hole statistics and stratigraphy.

Sample Number	Number of Visible Gold Grains				Processed Weight (g)	Calculated g/t Visible Gold			
	Total	Reshaped	Modified	Pristine*		Total	Reshaped	Modified	Pristine
IRS-04-44-02 (2 to 6 mm)	224	0	0	224	250.0	0.160	0	0	0.160
IRS-04-44-02 (6 to 25 mm)	2	0	0	2	250.0	0.002	0	0	0.002
IRS-04-44-03 (<1 mm)	0	0	0	0	250.0	0	0	0	0

Sample Number	Panned Yes/No	Dimensions (microns)	Number of Visible Gold Grains				Processed Weight (g)	Calculated V.G. Assay (g/t)
		Average Diameter	Reshaped	Modified	Pristine*	Total		
IRS-04-44-02 (2 to 6 mm)	Yes	<25			123	123		
		25 to 50			62	62		
		50 to 75			39	39		
						224	250.0	0.160
IRS-04-44-02 (6 to 25 mm)	Yes	~50			2	2		
						2	250.0	0.002
IRS-04-44-03 (<1 mm)	Yes	No visible gold						

* Most grains damaged during milling.

Table 5 - Summary (top) and details (bottom) of the physical features and calculated assay value of the gold grains recovered from 250 g subsamples of the two bedrock samples from Hole 44.

Appendix A

Rotasonic Drill Hole Logs



OVERBURDEN DRILLING MANAGEMENT LIMITED

SONIC DRILL HOLE LOG

Page 1 of 1

DATE: June 25 2004

SHIFT HOURS

7:00 to 6:30

TOTAL HOURS

11 1/2

CONTRACT HOURS

HOLE NO. IRS-04-01 DIAMETER "6-inch" ELEVATION 444 m
LOCATION Sth A013 E 0584594 N 7070485 1.3 m S of auger hole 2003-04
GEOLOGIST S. AVERILL DRILLER Brent McAndrew (freeman)
Anwar Hak (runner)
MOVE TO HOLE 9:00-12:30 (from camp) DRILL 12:30-5:00
MECHANICAL DOWN TIME Nil
DRILLING PROBLEMS Unable to make full 3 m run due to dry tight gravel;
cannot case hole until full 3 m completed; therefore risked
OTHER caving when pulling partial runs (however no caving occurred).
CONSUMABLES Nil 7:00-9:00 Organize drilling supplies at camp

Depth (Metres)	Run No.	Rod No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
1	1	1	Low	1.5	1	0.0-0.1	IRS-04-01-01	Humus, forest litter
2	2	2	High, even, increasing to very high with depth on each coring run	3.2	2	0.1-2.9	-01	Klondike Gravel. Loose, matrix supported. Brown sandy matrix. Assorted clast lithologies of pebbles to small cobble size. Dry and unfrozen. No apparent stratification
3	3	3		2.3	3	2.9-4.8	-02	White Channel Gravel. Very compact, dense, unfrozen, dry and resistant to coring. Prominent large cobbles to small boulders of quartz supported in a dense, bimodal matrix of grey-brown sand and silt
4	4	4		1.0	4	4.8-6.8	03	Bedrock. Soft, dark grey mudstone altered to plastic clay.
5	5	5		0.7	5		04	
6	6	6		1.3	6		05	
7	7	7		0.8	7		06	
8	8	8		0.7	8		07	
9	9	9		0.8	9		08	
10	10	10		0.7	10		09	
11	11	11		0.8	11		10	
12	12	12		0.7	12		11	
13	13	13		0.8	13		12	
14	14	14		0.7	14		13	
15	15	15		0.8	15		14	

Note 1: At full power, drill penetration is very slow and ceases before a full 3 m run is cored due to:

- 1) large diameter of drill pipe; and
- 2) dry, unfrozen condition of gravel, and
- 3) very dense, bimodal silt + sand matrix of White Channel Gravel.

Since positions of core barrel and casing chucks require that 3 m must be cored before casing can be set, pulling the core before 3 m of advance caused risk of caving into open hole. However, no caving was experienced. In addition, all gravel displaced by the thick (9/16") part of the coring bit moves to the inside rather than outside of the core barrel, typically lengthening the core by 30% relative to the distance cored (in some cases 40-60%).

Note 2: In the "Run No." column, the letter C around a number (e.g. C1) indicates that the hole was cased to bottom after that run.

COMMENTS: Dimensions: 6" x 8" systems

4" x 6" systems	Core barrel 5 1/2" ID x 6 1/8" OD	4" x 6" and 6" x 8" systems
Core barrel 3 7/8" ID x 4 1/2" OD	Coring bit 5 1/8" ID x 6 1/8" OD (9/16" kerf)	Extensions rods 2" ID x
Coring bit 3 3/8" ID x 4 5/8" OD	Casing 6 3/4" ID x 7 5/8" OD	Length of core barrel
(5/8" kerf)	Casing shoe 6 5/8" ID x 7 3/4" OD (9/16" kerf)	+ bit + top adapter 3.5 m
Casing 4 3/4" ID x 5 1/2" OD		

Depth in ground on 1st run 1.5 m



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Page 1 of 1

DATE: June 26 2004

SHIFT HOURS

7:00 to 11:30

TOTAL HOURS

4 1/2

CONTRACT HOURS

3 3/4

HOLE NO. IRS-04-02 DIAMETER 6" ELEVATION 440 m
LOCATION S.T. A014 E0584784 N7070244 (Taken June 24; June 26 447.1)
GEOLOGIST S. AVERILL DRILLER HAK and McANDREW
MOVE TO HOLE 8:30-9:00 DRILL 9:00-11:30
MECHANICAL DOWN TIME 7:45-8:30 Weld new safety grill to rod storage
DRILLING PROBLEMS None
OTHER Travel 7:00-7:45
CONSUMABLES None

Depth (Metres)	Run No.	Rod No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
1	1	1	Low, even	0.2/0.4 1.1 1.1		^ ^ ^	Not Sampled	0-0.4 Peat 0.4-2.4 Silt. Beige except brown top 0.3 m. Pebbly 2.1-2.4. Unfrozen.
2				1.1 0.9				
3	2	2		2.3 2.1	1 2	000000 000000	IRS-04 -02-01	2.4-5.5 Klondike Gravel. Assorted variations of pebble to rarely cobble-sized clasts supported in a brown sandy loess to moderately compact matrix. Silt layer 3.0 to 3.6 m; otherwise no significant stratification. Unfrozen.
4			High, even		3	000000	-02	
5	3			2.6 1.5	4	000000		5.5-5.8 Degraded granular ochre bedrock. Unfrozen.
6		3			5	000000	-03	
7	4			2.0 1.5	6	000000	-04	5.8-7.5 Bedrock. Gray mudstone altered to clay or reduced to clay by drilling.
					7	000000	Archived	
8								
9								
10								
11								
12								
13								
14								
15								

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Page 1 of 1

DATE: June 26 2004

HOLE NO. IRS-04-03 DIAMETER 6" ELEVATION 440

SHIFT HOURS
11:30 to 3:00

LOCATION Site A017 E0585145 N7070121

GEOLOGIST S. AVERILL DRILLER Hak and McAndrew

MOVE TO HOLE 11:30-12:00 DRILL 12:00-3:00

TOTAL HOURS
3.5

MECHANICAL DOWN TIME —

DRILLING PROBLEMS —

CONTRACT HOURS
3.5

OTHER —

CONSUMABLES —

Depth (Metres)	Run No.	Rod No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
1	1	1	Low, even	1.5 1.5			No Sample	0-2.8 Silt. Brown grading downward to beige at 0.5. Frozen from 0.5. Core recovered from 1.5-2.8m includes 0.7 m of silt caved from 0-0.5 m.
2				2.5 1.3				2.8-6.1 Klondike Gravel. Assorted variation of pebble-sized clasts supported in a loose (but partly frozen) brown sandy matrix. No significant stratification. Occasional cobbles from 4.2-6.1.
3	2	2	High, even	2.3 1.7	1		IRS-04-03-01	
4					2			
5			High, uneven		3		-02	
6	3	3			4		-03	6.1-7.5 Bedrock. Interbedded grey mudstone and beige siltstone altered to clay. Frozen.
7			Solid, tight		5		-04	
8					6		Archived	
9								
10								
11								
12								
13								
14								
15								

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Page 1 of 1

DATE: JUNE 26 2004

HOLE NO. IRS-04-04 DIAMETER "6 inch" ELEVATION 444m

SHIFT HOURS

LOCATION SIT E 018 E 0584956 ; N 7069768

to

GEOLOGIST HOLMES DRILLER McAndrew and Hak

MOVE TO HOLE 3:00-3:15 PM DRILL: 3:15-6:30 PM

TOTAL HOURS

MECHANICAL DOWN TIME

DRILLING PROBLEMS

CONTRACT HOURS

OTHER WAIT FOR WATER 3:15-4:15 PM

CONSUMABLES

Depth (Metres)	Run No.	Rod No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
1	1	1	low, even	2.0 / 1.5	1		Not Sampled	0-0.3 Humus
2			high, even		2		IRS-04-04 01	0.3-1.2 Silt: brown, frozen
3	2	2		4.3 / 3.0	3		02	1.2-5.3 Klondike Gravel. Loose, matrix supported, Brown sandy matrix with assorted variety of pebbles to rarely cobble-size clasts, no significant stratification - partially frozen
4			high, variable even and uneven		4		03	
5	3	3		1.4 / 1.2	5		04	5.3-6.4 Bedrock - sandstone competent, consolidated.
6	4	4	very high, even	1.0 / 0.7	6		05 (Archived)	
7					7			
8					8			
9								
10								
11								
12								
13								
14								
15								

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Page 1 of 1

DATE: June 27 2004

HOLE NO. IRS-04-05 DIAMETER 6" ELEVATION 475m

SHIFT HOURS
7:00 to 10:45

LOCATION Site A017 E 0584761 N 7069400 on step half way up main in black shale
GEOLOGIST S. AVERILL DRILLER HAK + M. ANDREW

MOVE TO HOLE 7:45-8:30 DRILL 8:30-10:45

TOTAL HOURS
3 3/4

MECHANICAL DOWN TIME —

DRILLING PROBLEMS —

CONTRACT HOURS
3 3/4

OTHER Travel 7:00-7:45

CONSUMABLES —

Depth (Metres)	Run No.	Rod No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
1	1		Low, uneven	2.5 1.5	1	000000	IRC-04-05 -01	0-3.6 Klondike Gravel. Fusion to 2.9 Mixed with humus to 0.2m. Fine poorly gravel interlayered with coarse brown sand to 2.9, then mixed pebbles and cobbles. Clasts of diverse lithology with negligible gtz. Matrix supported throughout.
2			High, even	4.3 3.0	2	000000		
3	2				3	000000	-02	
4			High, uneven		4	000000	-03	3.6-4.9 White Channel Gravel. Massive with cobble-sized clasts supported in a bimodal grey sand-silt matrix. Clast lithologies very distinctly bimodal in gtz. (>50%) and grey pelitic; others negligible.
5	3	3		2.9 2.0	5	000000	-04	
6			Very high		6	000000		4.9-6.5 Bedrock. Eocene sediments. Fine, poorly gtz pebble conglomerate with occasional sandstone interbeds. Mostly oxidized deep ochre, crumbling and degraded except solid ore in conglomerate 4.9-5.1 and sandstone 6.3-6.5
7					7	000000		
8					8	000000		
9					9	000000		
10					10	000000		
11								
12								
13								
14								
15								

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Page 1 of 1

DATE: June 27 2004

HOLE NO. IRS-04-06 DIAMETER 6" ELEVATION 448 m

SHIFT HOURS

LOCATION Stn A015 E0584596 N7069938 on flat gravel bog.

10:45 to 2:30

GEOLOGIST S. AVERILL DRILLER HAK and M. ANDREWS

MOVE TO HOLE 10:45-12:00 DRILL 12:00-2:30

TOTAL HOURS

MECHANICAL DOWN TIME

3 3/4

DRILLING PROBLEMS

CONTRACT HOURS

OTHER

CONSUMABLES

Depth (Metres)	Run No.	Rod No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
1	1		Low, even	1.8 1.5				0-2.1 SILT. Grey brown. Mixed with surface peat to 0.2 and organic matter 1.8-2.1. Frozen from 0.3
2			High, uneven	3.4	1			2.1-4.3 KLONDIKE Gravel. Uncharacteristically (compared to Indian R. Valley sections) grey (not brown), silty sand (not clean sand) matrix with unusually low (10%) clast content and thin grey silt interbeds but still contains occasional cobbles. Lithologies mainly slabby (not rounded) pelite + psammite rather than distal varieties. Negligible gtz. clasts.
3	2		High, uneven	3.0	2		IRC-04-06-01	
4			Mod. sand		3		-02	
5	3	3		2.9 2.0	4		-03	
6			Very high, uneven		5		(Archived)	4.3-6.5 BEDROCK, Grey mudstone (Tertiary) mostly reduced to clay.
7					6			
8								
9								
10								
11								
12								
13								
14								
15								

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED

SONIC DRILL HOLE LOG

Page 1 of 1DATE: JUNE 27 20 04HOLE NO. IRS-04-07DIAMETER "6-inch"ELEVATION 454m

SHIFT HOURS

LOCATION SITE 016 E 0584404 N 7069586GEOLOGIST HOLMESDRILLER HAK, McANDREWMOVE TO HOLE 2:30-2:45 PM DRILL 2:45-6:00 PM

TOTAL HOURS

MECHANICAL DOWN TIME

DRILLING PROBLEMS

CONTRACT HOURS

OTHER Move to next hole 6:00-6:30 PM Travel 6:30-7:00 PM

CONSUMABLES

Depth (Metres)	Run No.	Rod No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
1	1		low even	2.1 / 1.5		1 1 1		0-0.3 Humus
2								0.3-3.8 Silt, beige-brown with organics - completely Frozen
3	2		moderate even	4.0 / 3.0				3.8-6.7 Klondike Gravel
4			high uneven		1	0 0 0 0		- grey-brown silty, loose matrix; matrix supported, mainly unfrozen; assorted clasts mainly pebbles, < 15cm mainly subangular, slabby apparently local bedrock units
5	3		very high uneven	1.5 / 1.1	2	0 0 0 0	01	- at 6.5-6.7 chocolate brown oxidized? - "organic"-looking zone
6	3		high uneven		3	0 0 0 0		
7	4		even	2.3 / 1.9	4	0 0 0 0	02	6.7-8.5 Bedrock - Sandstone
8				1.5 / 1.0	5	0 0 0 0	03 (Archived)	contact is beige colour, degraded sandstone - occasional pebbles - below 7.2m, sandstone is grey only slightly degraded
9								
10								
11								
12								
13								
14								
15								

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Page 1 of 1

DATE: June 28 2004

HOLE NO. IRS-04-08 DIAMETER 6" ELEVATION 431

SHIFT HOURS

7:00 to 10:30

LOCATION Site A020 E 0584954 N 7070585 Top edge of mine pit

GEOLOGIST S. AVERILL

DRILLER HAK, McANDREW

MOVE TO HOLE Previous day. DRILL 8:00-10:30

TOTAL HOURS

3 1/2

MECHANICAL DOWN TIME —

DRILLING PROBLEMS —

CONTRACT HOURS

3 1/2

OTHER Travel 7:00-10:30

CONSUMABLES —

Depth (Metres)	Run No.	Rod No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
1	1	1	Low, uneven	0.6	1	•••••	IRS-04-08-01	Note: Surface silt layer prestripped for mining. 0.0-3.7 Klondike Gravel. Equal pebble-sized clasts of diverse lithology supported in a brown sandy matrix. Cobbly 3.5-3.7. Unstratified. Unfrozen. Pushed cobble down-hole 0.7-1.5 reducing core recovery in this section. 3.7-6.2 BEDROCK. Tuffaceous mudstone. Gray with brown "coaly" partings. Attempted caving with water from 4.5-5.3, washed away core, discontinued procedure. At 4.5 or 5.3 (depending on position of lost core) is 0.1 m of gray-green consolidated but drill-brecciated sandstone.
			Very high	0.3		•••••		
				0.8		•••••		
2			Uneven moderate to very high	3.0	2	•••••	-02	
3	2	2		3.0	3	•••••		
4			Very high solid		4	•••••	-03 Direct to lab	
5	3	3		1.0	5	•••••	-04 (Archived)	
				1.7		•••••		
6								
7								
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11								
12								
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14								
15								

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Page 1 of 1

DATE: June 28 2004

HOLE NO. IRS-04-09 DIAMETER 6" ELEVATION 434 m

SHIFT HOURS

10:30 to 1:30

LOCATION A021 E0585210 N7070491

GEOLOGIST S. AVERILL DRILLER HAK, MCANDREW

MOVE TO HOLE 10:30-11:00 DRILL 11:00-1:30

TOTAL HOURS

3

MECHANICAL DOWN TIME —

DRILLING PROBLEMS —

CONTRACT HOURS

3

OTHER —

CONSUMABLES —

Depth (Metres)	Run No.	Rod No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
1	① 1		Low, even	1.4 1.5				Note: Surface prestripped of 0.5 m of silt. 0-0.1 Organics. 0.1-3.0 Fine brown silty sand. Slightly frozen 2.7-3.0, otherwise intermittent silty frozen. 3.0-5.1 Klondike Gravel. Equant pebble-sized clasts of diverse lithology (mostly light grey) supported in a loose brown sandy matrix. No significant stratification. Unfrozen. 5.1-6.8 BEDROCK. Tertiary sediments, Lignite coal 5.1-5.6. White to buff fine-grained uncemented sandstone 5.6-6.8
2				2.0 1.5				
3	② 2		High, uneven	1.8 1.2	1		IRS-04-09 -01	
4			High, solid	0.2 0.6	2		-02	
5			Moderate, uneven	3.0 1.7	3		-03 (Anchored)	
6	3 3		Solid, tight		4		-04 (Anchored)	Note: Only 0.2 m of core recovered from 0.6 m interval 4.5-5.1 m due to spillage from core barrel onto pipe breakout platform. Half of recovered core scraped from platform; may contain drill cut contamination.
7					5			
8								
9								
10								
11								
12								
13								
14								
15								

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Page 1 of 1

DATE: June 28 20 04

SHIFT HOURS

1:30 to 7:30

TOTAL HOURS

6.0

CONTRACT HOURS

6.0

HOLE NO. IRS-04-10

DIAMETER 6"

ELEVATION 436 m

LOCATION Site A008 E 0584606 N 7070884 ^{10 m E of backhoe trench #10 and 2.5 m E of auger hole #05}

GEOLOGIST S. AVERILL

DRILLER HAK, McANDREW

MOVE TO HOLE 1:30-3:00 Drill 3:00-6:30 Move toward Hole 11

MECHANICAL DOWN TIME

6:30-7:00

DRILLING PROBLEMS Moved 1 m N and redrilled hole to bedrock at 6.2 m

OTHER Travel to replace uncored gravel section below 2.3 m

CONSUMABLES 7:00-7:30

Depth (Metres)	Run No.	Rod No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
1	1		Very high uneven (dry)	0.3 0.8	1	IRS-04-10-01		0.0-0.8 Silt. Grey-brown. Unfrozen.
2				1.3 0.7	2			0.8-6.2 Klondike Gravel. Equant pebbles + scattered cobbles supported in a loose brown sandy matrix. Unfrozen. Large cobble stuck in bit at 2.8 m prevented core recovery 2.3-4.5 m.
3	2		Low, even (but moderate uneven on redrill)	0.0 2.2	3			After removing cobble, had poor recovery to bedrock (4.5 m to 6.2 m)
4				1.7 2.0 on redrill	4		-02	So redrilled section. Note: blocked moved 1 m N and
5								bit actually lowers rather than increases resistance as main resistance is inside core barrel.
6	3	3	Moderate, uneven	1.5 1.7 (reel)	5		-03	6.2-7.0 BEDROCK. Grey, fine-grained metamorphosed sandstone.
7			High, tight	1.0 0.8	6		-04	
8								
9								
10								
11								
12								
13								
14								
15								

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Page 1 of 1

DATE: JUNE 29 2004

HOLE NO. IRS-04-11

DIAMETER "6-inch"

ELEVATION 446m

SHIFT HOURS

LOCATION SITE A009 E0584435 N7070486

GEOLOGIST HOLMES

DRILLER HAK

MOVE TO HOLE 7:30-8:00 AM

DRILL 8:30-12:00

TOTAL HOURS

MECHANICAL DOWN TIME

DRILLING PROBLEMS

CONTRACT HOURS

OTHER travel 7:00-7:30 AM carry water 8:00-8:30 AM

CONSUMABLES

Depth (Metres)	Run No.	Rod No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
1	1	1	low even	1.8 / 1.5			No Sample	0-0.3 Humus/forest litter
2								0.3-2.7 silt - beige to brown, Frozen
3	2	2	moderate even	3.9 / 3.0	1		IRS-04-11 01	2.7-4.5 Klondike Gravel
4			high uneven		2		02	- brown sandy-silty, muddy matrix; matrix supported with assorted varieties of pebbles and occasional cobbles, est. 10% quartz
5			very high to high even		3			- no apparent stratification
6	3	3		2.5 / 1.9	4		03 Archive	- unfrozen
7	4			0.7 / 0.7	5			- increase in cobbles below 3.5m
8								4.5-7.1 Bedrock - siltstone/sandstone
9								- brown to grey brown clay with fragmented remnants.
10								
11								
12								
13								
14								
15								

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Page 1 of 1

DATE: JUNE 29 20 04

HOLE NO. IRS-04-12 DIAMETER 6 - inch ELEVATION 452

SHIFT HOURS

LOCATION SITE A010 E 0584239 N 7070128

to

GEOLOGIST HOLMES DRILLER HAK

MOVE TO HOLE 12:00 - 12:30 DRILL 12:30 - 3:30

TOTAL HOURS

MECHANICAL DOWN TIME

DRILLING PROBLEMS

CONTRACT HOURS

OTHER

CONSUMABLES

Depth (Metres)	Run No.	Rod No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
1	1		low even	2.3 / 1.5			No Sample	0-0.3 Humus/Forest litter 0.3-2.0 silt. brown to beige-brown, Frozen
2			moderate to high even	3.5	1		IRS-04-12 01	2.0-2.4 klondike Gravel? (possible White Channel) - dry, unfrozen
3	2	2	very high even	3.0	2		02 (Archive)	- silty grey gravel, matrix supported assorted pebbles and cobbles including local mudstone clasts, estimate 10-20% quartz
4					3			2.4-4.5 Bedrock - mudstone/siltstone - grey-brown clay with fragments of rock within disintegrated clay
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Page 1 of 1

DATE: June 29 2004

HOLE NO. IRS-04-13 DIAMETER 6-inch ELEVATION 456

SHIFT HOURS
to

LOCATION site A011 E 0584048 N 7069764

GEOLOGIST Holmes DRILLER HAK

MOVE TO HOLE 3:30 - 4:00 Drill 4:00 - 6:00 PM

TOTAL HOURS

MECHANICAL DOWN TIME

DRILLING PROBLEMS 6:00 - 8:30 PM Drill rig stuck 50m from set-up

CONTRACT HOURS

OTHER Travel 0:30 - 9:00 PM.

CONSUMABLES

Depth (Metres)	Run No.	Rod No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
1	1	1	low even	0.5 1.5			No Sample	0-0.3 Humus/forest litter
2								0.3-2.0 silt - brown, beige frozen
3	2	2	moderate even ↓ high uneven	4.1 3.0			IRS-04-13 01	2.0-4.1 Klondike Gravel (possible White Channel) - unfrozen
4			very high ↓ high even				02	2.0-2.7 matrix supported brown silty sand, muddy with occasional pebbles, upper contact gradational with overlying silt
5	3	3		1.4 1.2			03 04 Archive	2.7-3.4 possible white channel matrix to clast supported pebbly and occasional cobbles, grey-brown silty matrix - appears to be ~20% quartz
6								3.4-3.7 silt - brown-beige
7								3.7-3.9 boulder quartz
8								3.9-4.1 silt with occasional pebbles
9								4.1-5.7 Bedrock mudstone/siltstone various colours of brown, green clay and grey-black rock fragments - partially frozen
10								
11								
12								
13								
14								
15								

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Page 1 of 1

DATE: July 7 2004

SHIFT HOURS

to

TOTAL HOURS

CONTRACT HOURS

HOLE NO. IRS-04-14 DIAMETER "6 inch" ELEVATION 448m
LOCATION SITE A012 E 0584463 ; N 7070673
GEOLOGIST HOLMES DRILLER HAK
MOVE TO HOLE 12:30 - 1:00 PM DRILL 1:00 - 4:00 PM
MECHANICAL DOWN TIME Upto 12:30 PM waited for hydraulic jack which didn't arrive.
DRILLING PROBLEMS Attempt drilling with 2 out of 3 jacks
OTHER Move to next hole 4:00 - 4:30 PM; difficulty setting-up with only 1 rear jack and
CONSUMABLES fear of getting stuck. Walk and travel 5:00 - 5:30 PM.

Depth (Metres)	Run No.	Rod No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
1	①	1	moderate uneven to even	1.4 / 1.5	1	0000	IRS-04-14 01	0-0.1 Humus/forest litter
2					2	0000	02	0.1-2.7 Klondike Gravel
3	②	2	high to very high even	3.6 / 3.0	3	0000	03	- matrix supported brown-ochre sandy to muddy silt matrix; no apparent stratification; assorted varieties of subrounded pebbles and cobbles.
4			very high even		4	0000	04 (Archived)	2.7-4.5 Bedrock - Sandstone (Eocene)
5					5	0000		- degraded grey, laminated; fine grained sand
6								- occasional pebbles and lignite.
7								
8								
9								
10								
11								
12								
13								
14								
15								

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED

SONIC DRILL HOLE LOG

Page 1 of 1

DATE: July 8 2004HOLE NO. IRS-04-15 DIAMETER '6' inch' ELEVATION 457m

SHIFT HOURS

LOCATION site A007 E 0584249; N 7070561

to

GEOLOGIST HOLMES DRILLER HAK, CRAMM

TOTAL HOURS

MOVE TO HOLE Drill set-up 8:00-9:30AM Drill 9:30-4:00PM

MECHANICAL DOWN TIME

DRILLING PROBLEMS

CONTRACT HOURS

OTHER travel 7:30-8:00AM, haul water 1:15-2:00PM

CONSUMABLES

Depth (Metres)	Run No.	Rod No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
1	1	1	Low, even	1.9	1		No Sample	0-0.3 Humus/Forest litter
				1.5				0.3-1.0 Silt - brown, Frozen
2	2	2	moderate uneven - high, variable even - uneven	2.1	2		IRS-04-15 01	1.0-5.3 Klondike Gravel
			very high uneven	1.3	3			matrix supported (unfrozen)
3		2			4			- grey brown sandy, silty and 'muddy' matrix;
					5			assorted varieties of pebbles and cobbles
4	3			2.2	6		02	including quartz and klondike schist
			moderate to high variable even - uneven	1.7	7			5.3-7.8 White Channel Gravel
5					8			5.3-6.0 pebbly sand, very fine to fine grained,
					9			ochre with a few small pebbles
6	4	3		3.8	10		03	(partially frozen)
				3.0	11			6.0-7.8 matrix supported grey-white with
7								ochre zones in silt to fine sand matrix
								-- abundant micaceous sand/silt component
8	5			1.6			04	to matrix; pebble and cobble clasts
				1.3				subrounded to rounded est >75% quartz
9	4						05 (Archive)	(unfrozen)
10								7.8-8.8 Bedrock Sandstone/siltstone (Eocene)
11								degraded interbedded sandstone and
12								siltstone with occasional thin organic
13								interlayers.
14								
15								

* attempted casing 4th run, short of water so pulled core without casing, then went for water, subsequently cased down to 7.5m.

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED

SONIC DRILL HOLE LOG

Page 1 of 1

DATE: July 8, 2004

HOLE NO. IRS-04-16 DIAMETER 6-inch ELEVATION 463 m

SHIFT HOURS

LOCATION SITE A006: E0584069; N7070226

to

GEOLOGIST HOLMES/KEYS DRILLER CRAFT

TOTAL HOURS

MOVE TO HOLE July 8 2004 4:00-4:45 PM DRILL 4:45-7:00 PM July 8

MECHANICAL DOWN TIME DRILL 9:00-10:30 AM July 9

DRILLING PROBLEMS

CONTRACT HOURS

OTHER Travel July 8 7:00-8:15 PM Travel 7:30-8:00 AM waterhalt 8:00-9:00 AM July 9

CONSUMABLES

Depth (Metres)	Run No.	Rod No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
1	(1)	1	moderate, even	2.1 1.5		^ ^ ^ 	No Sample	0-0.3 Humus / Forest litter 0.3-2.1 silt brown-lignite (Frozen) 2.1-5.0 Klondike Gravel matrix supported brown to grey-brown silty, muddy matrix; assorted variety of subrounded pebbles and cobbles.
2								
3	(2)	2	high to very high uneven	4.5 3.0	1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	IRS-04-16 01	
4					2	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		5.0-6.3 White Channel Gravel (partially frozen) - contact not well defined, between 4.5 and 5.2 m.
5	3			1.8 1.5	3	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	02	- matrix supported grey to grey-white silty to very fine grained sand including fine grained mica particles;
6	3				4	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	03	pebbles and cobbles predominant quartz with a few observed klondike schist
7	(4)		very high even	2.4 1.5	5	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	04 (Archive)	6.3-7.5 Bedrock klondike schist (possible Eocene siltstone) - saprotic dark brown, competent clay bedrock with schistose, micaceous partings. contact between 6.2 and 6.3 m
8					6			
9					7			
10								
11								
12								
13								
14								
15								

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Page 1 of 1

DATE: July 09 20 04

SHIFT HOURS

to

TOTAL HOURS

CONTRACT HOURS

HOLE NO. IRS-04-17 DIAMETER 6-inch ELEVATION 461m

LOCATION site A005 E 0583 878 N 7069 872

GEOLOGIST SKEANS DRILLER

MOVE TO HOLE 10:30 AM - 11:00 MOVE, 11:00 → 12:51 setup, 1.00-3.00 drill

MECHANICAL DOWN TIME

DRILLING PROBLEMS NO Right side ^{undrilled} jack, cut trees to balance rig (see setup time)

OTHER

CONSUMABLES

Depth (Metres)	Run No.	Rod No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
1	1	1	low even	1.9 / 1.5				0.0-0.5 Humus - Peat
2								0.5- silt (silty) brown frozen
3	2	2	low uneven	3.9 / 3.0				1.0- silt grey-beige
4			moderate uneven		1		sample	3.2- Klondike Gravel ??
5			High uneven		2		01	Brown Frozen silt occasional chert mostly pebble size
6	3	3	↓	2.2 / 1.5	3			5.8 Gravel matrix supported fine to med grain sand, chert assorted sizes varied composition
7	4		High uneven	1.9 / 1.5	4		02	observed garnet lenses @ 6.0-6.1 m
8			V. High uneven		5		03	
9			↓		6		04	6.0-7.5 Bedrock
10					7			degraded clay (altered to chyl)
11								Klondike schist
12								
13								
14								
15								7.5 EOH

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED

SONIC DRILL HOLE LOG

Page 1 of 2

DATE: July 9, 10 20 04

SHIFT HOURS

to

TOTAL HOURS

CONTRACT HOURS

HOLE NO. IRS-04-18 DIAMETER "6-inch" ELEVATION 492
 LOCATION SITE A004 E 0583500; N 7070007
 GEOLOGIST HOLNES / KEAYS DRILLER IT' ANDREW
 MOVE TO HOLE July 9 3:00-3:45 PM DRILL 3:45-6:30 PM July 9
 MECHANICAL DOWN TIME DRILL 8:00-3:00 PM July 10
 DRILLING PROBLEMS
 OTHER travel 6:30-7:30 PM July 9 travel 7:00-8:00 AM and travel 5:00-6:00 PM July 10
 CONSUMABLES haul water 8:00-10:30 AM July 9, move to next hole 3:00-5:00 PM July 10

Depth (Metres)	Run No.	Rod No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
1	(1) 1		low to moderate, even	1.9	1	^ ^ ^	No Sample	0.0-0.3 Humus / forest litter
			moderate to high, uneven	1.5	1	o o o	IRS-04-18 01	0.3-0.5 Silt - brown-beige (Frozen)
2			↓	4.5	2	o o o		0.5-15.6 Klondike Gravel
3	(2) 2		↓	3.0	3	o o o		0.5-0.8 - silty-muddy matrix with a few pebbles (Frozen)
4			very high uneven		4	o o o	02	0.8-15.6 matrix supported brown-beige sandy to silty "muddy" matrix --
5			↓		5	o o o		interlayers of silty-sandy
6	(3) 3		high uneven	4.5	6	o o o	03	'dry' gravel separated by silty 'muddy' gravel sections such as 10.5-12.0m, 12.5-13.0m, 13.7-14.5m and 14.9-15.6m
7			↓	3.0	7	o o o		abundant clasts of assorted varieties including quartz and Klondike schist below 4.6m.
8					8	o o o	04	- gravel is periodically garnetiferous throughout entire section.
9	(4) 4			4.2	9	o o o		
10				3.0	10	o o o	05	
11			very high uneven		11	o o o		
12	5		↓	3.9	12	o o o	06	
13			very high even to uneven	2.0	13	o o o		
14	6		↓	4.2	14	o o o	07	
15				2.5	15	o o o		

COMMENTS:

* Ran out of water at 4.5m, therefore 3rd and 4th runs were completed 'uncased' -- no casing occurred. After 4th run (start of second drill shift, July 10 AM) hauled water and ran casing to 10.5m -- closed core barrel and continued.



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Page 2 of 2

DATE: July 9, 2004

HOLE NO. IRS-04-18

DIAMETER

ELEVATION

SHIFT HOURS

to

LOCATION

GEOLOGIST

DRILLER

MOVE TO HOLE

MECHANICAL DOWN TIME

DRILLING PROBLEMS

OTHER

CONSUMABLES

TOTAL HOURS

CONTRACT HOURS

Depth (Metres)	Run No.	Rod No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
16	7	6	very high even	1.9 / 1.0	22 / 23		08	15.6- 16.5 Bedrock Klondike Schist - ochre coloured degraded schist, competent 'clayey' with micaceous laminations.
	8			1.0 / 0.5	24		09 (Archive)	
17								
18								
19								
20								
21								
22								
23								
24								
10								
11								
12								
13								
14								
15								

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Page ____ of ____

DATE: July 10, 11, 12 20 04

HOLE NO. IRS-04-19 DIAMETER 6" ELEVATION 482

SHIFT HOURS

LOCATION (Site A003) E0583767 ; N7070397

to

GEOLOGIST S. KEAYS DRILLER McAndrew

MOVE TO HOLE Panel

TOTAL HOURS

MECHANICAL DOWN TIME Drill: July 11 8:30 - 11:30 → burn out spinner on rig
July 12 8:20 - 9:20 replace

DRILLING PROBLEMS

CONTRACT HOURS

OTHER

CONSUMABLES WATER July 11 7:00 - 7:30

Depth (Metres)	Run No.	Rod No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
1	1		moderate even	2.7 / 1.5				0.0-0.5 HUMUS - PEAT 0.5 - 3.7 Frozen brown - beige silty
2			moderate to high					3.7 Klondike Gravel
3	2		high even	3.2 / 3.0				gradational contact sand → gravel
4			v. high uneven		1	0000	01	- silty muddy matrix clay - quartz MATRIX grey-brown Klondike schist subrounded to subangular.
5					2	0000		@ 6.8 - 8.0 layers of sandy matrix gravel
6	3		High	3.0 / 2.5	3	0000	02	@ 8.2 observed several thousand garnet in sandy matrix.
7			v. high uneven		4	0000		CLAST →
8	4		v. high uneven	3.8 / 2.2	6	0000	03	9.8 - 10.4 Bedrock (Klondike Schist)
9					7	0000		compact, schistose texture, rusty yellow - grey micaceous throughout.
10	5		v. high even	3.2 / 1.4	8	0000	04	
11					9	0000	05	
12					10			10.4 E.O.H.
13					11			
14								
15								

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Page 1 of 1

DATE: July 12 2004

HOLE NO. IRS-04-20 DIAMETER 6" ELEVATION 457 m

SHIFT HOURS

LOCATION E 0583902 N 7070759

to

GEOLOGIST S. KEAYS DRILLER McAndrew

MOVE TO HOLE 9:20 - 10:00 Drilled: 10:00 → 2:20

TOTAL HOURS

MECHANICAL DOWN TIME

DRILLING PROBLEMS

CONTRACT HOURS

OTHER

CONSUMABLES

Depth (Metres)	Run No.	Rod No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
1	1	1	Moderate even	2.2/1.5	1	0000	01	0.0-0.5 HUMUS - PEAT - CLAY
2			High even		2	0000		0.5-7.2 Klondike Gravel: assorted variation of pebble-size clast supported in sandy matrix - occasional cobbles, assorted clast lithology
3	2	2		4.1/3.0	3	0000		@ 2.6-4.3 thin grey silt interbeds
4					4	0000	02	@ 3.6 possible coal lenses. ??
5			V. high uneven		5	0000		
6	3	3		4.1/3.0	6	0000	03	7.2 White Channel Gravels: matrix supported with silt to sand matrix abundant pebble and cobble clasts subrounded to rounded (>50%) quartz clast observed fossils in the matrix
7					7	0000		13.1 - Bedrock (Eocene Sediment)
8					8	0000	04	interbedded grey mudstone and beige siltstone altered to clay.
9	4	4	V. high uneven	4.2/3.0	9	0000		14.6 E.O.H.
10					10	0000	05	
11					11	0000		
12	5	5		5.6/3.0	12	0000	06	
13			V. high even		13	0000	07	
14	6	6		2.1/1.1	14	0000	08	ARCHIVE
15					15	0000		

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Page 1 of 1

DATE: July 12 2004

HOLE NO. IRS-04-21 DIAMETER 6" ELEVATION 426 m

SHIFT HOURS

LOCATION E0584 105 N 707 1124

to

GEOLOGIST S. KEAYS DRILLER McAndrew

MOVE TO HOLE 2:20 → 4:30 (service vehicle stuck) Drill: 4:45-6:00

TOTAL HOURS

MECHANICAL DOWN TIME

DRILLING PROBLEMS

CONTRACT HOURS

OTHER Got stuck getting to move.

CONSUMABLES

Depth (Metres)	Run No.	Rod No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
1	1		Low even moderate even	2.3 1.5				0.0-0.5 Peat-Humus 0.5-1.6 silt-brown grading downward to beige.
2	2		moderate to High even	2.9 2.0	1		01	1.6-3.8 Klondike Gravel beige silt matrix supported, clast of various sizes and lithologies.
3		2			2		02	
4	3		V. High even	2.9 1.0	3		03	3.8 Bedrock (Eocene Sediment) coarse sandstone with conglomerate interbed. sandy clay cemented.
5					4		ARCHIVE	
6								4.5 E.O.H
7								
8								
9								
10								
11								
12								
13								
14								
15								

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Page 1 of 1

DATE: July 13 2004

HOLE NO. IRS-04-22 DIAMETER 6" ELEVATION 434 m

SHIFT HOURS

LOCATION E0583544 N 7070975

to

GEOLOGIST S. KRAVS DRILLER McAndrew

TOTAL HOURS

MOVE TO HOLE TRAVEL 7:30-7:00 setup: 9:00-9:45 DRILL 9:45-11:30

MECHANICAL DOWN TIME

DRILLING PROBLEMS

CONTRACT HOURS

OTHER Access to drilling sites from road across bridge

CONSUMABLES

Depth (Metres)	Run No.	Rod No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
1	1		low even ↓	1.9 1.5				0.0-0.5 HUMUS-PEAT
2								0.5-4.1 Frozen clay-silt brown graptolite downward to beige.
3	2		moderate even ↓	4.4 3.0				4.1-7.5 Klondike GRAVEL matrix supported sandy to silty matrix beige assorted clast; mostly pebbles subangular. - quartz and Klondike schist clast visible observed thin layer of garnetiferous sand.
4								
5			v. high even ↓	3.1 3.0	1		01	
6	3				2			
7			v. high uneven ↓		3		02	7.5-8.5 BEDROCK Eocene sediment Sandstone / mudstone coarse gr. sandstone with conglomerate interbeds; ochre color with oolite and quartz dust. coloured by fine gr. competent mudstone with grey-black rock fragments
8	4			2.5 1.0	4		03 (Archived)	8.5 E.O.H.
9								
10								
11								
12								
13								
14								
15								

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED SONIC DRILL HOLE LOG

Page 1 of 1DATE: July 13 2004HOLE NO. IPS-04-23 DIAMETER 6" ELEVATION 436 m

SHIFT HOURS

LOCATION EO 583 213 N 7071148

to

GEOLOGIST S KEANS DRILLER McAndrew

TOTAL HOURS

MOVE TO HOLE 11:30-1:00 Drill 1:00 → 2:40

MECHANICAL DOWN TIME

DRILLING PROBLEMS

CONTRACT HOURS

OTHER

CONSUMABLES

Depth (Metres)	Run No.	Rod No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
1	(1)	1	low even	2.0 / 1.5				0.0-0.6 HUMUS PEAT
2			↓ medium even					0.6 - 2.6 frozen silt (brown grading downward to beige)
3	(2)	2	↓ high uneven	5.0 / 3.0	1			2.6-3.0 fine gr sand
4			↓ high even		2		01	3.0-7.9 Klondike GRAVEL
5	3	3		1.6 / 1.1	3		02	matrix supported, beige sandy to silty matrix
6					4			assorted clast size, mostly pebble
7								occasional cobbles, subangular to subroundal
8								
9								
10								
11								
12								
13								
14								
15								

3.9-5.6 Bedrock (Klondike schist)

schistose texture, rust colored layers
micaceous partings.

EOH 5.6 m

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Page 1 of 1

DATE: July 13 2004

SHIFT HOURS

to

TOTAL HOURS

CONTRACT HOURS

HOLE NO. IRS-04-24 DIAMETER 6" ELEVATION 444m

LOCATION [Site A043] E0.583012 N7070795

GEOLOGIST S. WENNS DRILLER McAndrew

MOVE TO HOLE 3:00-3:30 Setup: 3:30-4:00 Drill 4:00-6:00 pm.

MECHANICAL DOWN TIME

DRILLING PROBLEMS

OTHER

CONSUMABLES

Depth (Metres)	Run No.	Rod No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
1	1		low even	1.9 / 1.5				0.0-0.4 HUMUS - PEAT
2								0.4-2.5 frozen silt brown grading downward to beige.
3	2	2	high even	2.6 / 2.3	1		01	2.5-3.5 Klondike GRAVEL - matrix supported, beige matrix (sand, silt) subangular to subangular pebbles mostly and occasional cobbles. Lithology: Klondike schist, quartz, other minerals
4	3		v. high even	0.7 / 0.7	2, 3, 4		02 ARCHIVE	3.5-4.5 Klondike schist schistose texture, micaceous, chlorite schist
5								E.O.H. 4.5-
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED

SONIC DRILL HOLE LOG

Page ___ of ___

DATE: July 14 2004

SHIFT HOURS

_____ to _____

TOTAL HOURS

CONTRACT HOURS

HOLE NO. IRS-04-25 DIAMETER 6" ELEVATION 455LOCATION E0582821 N17070438 (site A044)GEOLOGIST S. KEAYS DRILLER M. AndrewMOVE TO HOLE TRAIL - 7:00 → 8:00 MOVE FROM HOLE Hole-24 : 8:00 - 8:20 DRILL: 8:40-10:20MECHANICAL DOWN TIME (hose broken) 10 min

DRILLING PROBLEMS _____

OTHER _____

CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
1	1		low ↓	20 1.5				0.0-0.3 HUMUS PEAT 0.3-3.4 Frozen silt brown with organic lenses visible.
2								
3	2		moderate even	41 3.0				3.4-5.8 Klondike Gravel matrix supported, ^{base} silty to muddy matrix, assorted varieties of pebbles & cobbles including quartz and Klondike schist
4			High even		1	oooo	01	
5					2	oooo		
6	3		v. high uneven	37 2.5	3	oooo	02	5.8-7.0 Bedrock (Klondike Schist) schistose texture, micaceous laminations competent 'dayey'
7			v. high even		4	oooo		
8					5	oooo	03	
9					6	oooo	ARCHIVE	
10								E.O.H 7.0m
11								
12								
13								
14								
15								

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Page 1 of 1

DATE: July 14 2004

SHIFT HOURS

to

TOTAL HOURS

CONTRACT HOURS

HOLE NO. IRS-04-26 DIAMETER 6" ELEVATION 425 m
LOCATION E 058 3373 N 7071465 (site A024)
GEOLOGIST S. KEAYS DRILLER McAndrew
MOVE TO HOLE 10:20 → 11:00 drill: 11:10 → 1:00
MECHANICAL DOWN TIME
DRILLING PROBLEMS @ 8.5 NO CORE, change bit
OTHER
CONSUMABLES

Depth (Metres)	Run No.	Rod No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
1	1		low ↓	23/30				00-04- HUMUS PeAT
2								04-7.3 brown frozen silt with organic lenses.
3	2		moderate	42/30				7.3-9.1 <u>claylike Gravel</u> matrix supported gravel grey-beige muddy-silty matrix, clast subangular to subrounded. large quartz cobble-boulder observed in gravel section.
4								
5								
6	3			52/30				
7			High uneven					
8	4		V. high uneven	7/1.0		0000 000 000 00.00 000	01	9.1-10.5 <u>Bathrock (Eocene. Saturated)</u> olive/tan sandstone, competent (sandstone cored very well)
9								
10	5		V. high even ↓	30/20			02 ARCHIVE	10.5 E.O.H.
11								
12								
13								
14								
15								

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Page 1 of 1

DATE: July 14 2004

SHIFT HOURS

to

TOTAL HOURS

CONTRACT HOURS

HOLE NO. IRS-04-27 DIAMETER 6" ELEVATION 423 m
LOCATION E0582135 N 707/668 (site A025)
GEOLOGIST SKEVVS DRILLER McAndrew
MOVE TO HOLE 1:00 → 1:30 Drill 1:30 → 5:20
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS (3:20 - 4:45) broke off threads on core rod.
OTHER drag back to camp to pick up part for replacement
CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Resistance	Core Recovery (%)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
1	1	1	low	21/15				0.0 - 0.4 - HUMUS - PEAT
2								0.4 - 7.6 Frozen brown silt organic lenses
3	2	2		4.4/3.0				7.6 - 8.6 Klondike Gravel
4								clast: pebble mostly, occasional cobble quartz, schist.
5			moderate uneven	4.4/2.0				beige muddy, silty matrix;
6	3	3						(Bedrock Eocene sediments)
7								8.6 - 10. siltstone / black shale
8			High uneven	3.3/2.5			01	competent strands of black fine ss; BK fragments in clayey section
9		4	v. high even	1.3/1.0			02	@ bottom.
10	5						ARCHIVE	10 m E.O.H.
11								
12								
13								
14								
15								

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Page 1 of 1

DATE: July 15 2004

HOLE NO. IRS-04-78 DIAMETER 6" ELEVATION 433m

SHIFT HOURS

LOCATION E0587841 N 7071356 (site A026)

to

GEOLOGIST S KEAYS DRILLER McAndrew

MOVE TO HOLE (10:30 AM on hole site) ^{END} DRILL 2:11

TOTAL HOURS

MECHANICAL DOWN TIME

DRILLING PROBLEMS

CONTRACT HOURS

OTHER change axle, reful. large move TRAVEL: drillers - 7:20 → 8:40

CONSUMABLES Geologist → 8:20 → 9:40

Depth (Metres)	Run No.	Rod No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
0								0-0.4 HUMUS - PEAT
1	1		low	2.5 / 1.5				0.4- BROWN FROZEN silt brown grading to beige downward.
2								
3	2		High uneven	5.5 / 3.0				0.2.5 beige silt grading to black
4								4.9- <u>Klondike GRAVEL</u>
5			moderate					short gravel interbed over a thick silt to sand horizon.
6	3			5.3 / 3.0			01	
7								0.9.4 muddy, silty MATRIX with variable sizes: mostly pebbles occasional cobbles
8							02	
9	4		High even	3.8 / 3.0				clast include - quartz >50% - chert - Jasper - Klondike schist
10			v. high even				03	observed garnetiferous lenses
11	5		v. high uneven	1.4 / 1.0			04	11.4-12.8 Bedrock (Eocene Sediments) siltstone / black shale
12	6			1.9 / 1.0			05 ARCHIVE	finger. black shreds in core.
13								12.8 E.O.H.
14								
15								

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Page 1 of 1

DATE: July 15 2004

SHIFT HOURS

to

TOTAL HOURS

CONTRACT HOURS

HOLE NO. IRS-04-29 DIAMETER 6" ELEVATION 451 m

LOCATION EQ582477 N 7671488

GEOLOGIST S. KEANS DRILLER McAndrew

MOVE TO HOLE 2:20 → 2:40 (drill 2:40 → 4:30)

MECHANICAL DOWN TIME

DRILLING PROBLEMS

OTHER

CONSUMABLES

Depth (Metres)	Run No.	Rod No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
1	1	1	moderate	0.9 / 1.5				0.0-0.5 Humus - PEAT
2			↓					0.5-1.3 brown silt to fine sand
3	2	2		1.3 / 3.0	1		01	1.3-4.5 Klondike Gravel
4			high					MATRIX supported,
5	3		v. high	1.0 / 3	2		02	silt to sand matrix,
6			even					clast - pebbles,
7	4	3	v. high	1.6 / 2.5	3		03	occasional cobbles
8			unseen					above color contact.
9								4.5-7.5 Klondike Schist
10								mica rich
11								chips to competent
12								schistose texture.
13								
14								
15								

COMMENTS: experience core loss



OVERBURDEN DRILLING MANAGEMENT LIMITED SONIC DRILL HOLE LOG

Page ___ of ___

DATE: July 15 2004

SHIFT HOURS

to

TOTAL HOURS

CONTRACT HOURS

HOLE NO. IRS-04-30 DIAMETER 6" ELEVATION 459 m
LOCATION EO5B2560 N 707 1291 (site A028)
GEOLOGIST S. KENIS DRILLER McAndrew
MOVE TO HOLE 4:30 → 5:00 (drill 5:00 → 6:30 July 15)
MECHANICAL DOWN TIME (drill 8:00 - 9:40 July 16) TRAP 7:15-7:45
DRILLING PROBLEMS _____
OTHER _____
CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
1	1		high uneven	1.4 / 1.5	1	oooo	01	00-03 HUMUS - PEAT
2					2	oo		03 Klondike Gravel
3	2			3.4 / 3.0	3	o.	02	grey-beige matrix, matrix separated gravel
4					4	o.		clast of various sizes and lithologies.
5					5	o.	03	@ 2.4 White Channel Gravel:
6	3			2.0 / 3.0	6	ooo		grey-white matrix, cobbles more frequent than above.
7					7	o.	04	clast > 70% quartz
8	4		v. high uneven	1.7 / 1.5	8	ooo		20-30% schist
9			v. high even				05	observed garnet lenses @ 3.8 m
10								6.8-9.0 Bedrock Klondike Schist
11								schistose texture
12								abundant mica
13								rusty brown color
14								
15								9.0 E.O.H.

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED SONIC DRILL HOLE LOG

Page ___ of ___

DATE: July 15 2004

SHIFT HOURS

to

TOTAL HOURS

CONTRACT HOURS

HOLE NO. IRS-04-30 DIAMETER 6" ELEVATION 459 m
LOCATION E05B2560 N 7071291 (site A028)
GEOLOGIST S. KENIS DRILLER McAndrew
MOVE TO HOLE 4:30 → 5:00 (drill) 5:00 → 6:30 July 15
MECHANICAL DOWN TIME (drill) (8:00 - 9:40) July 16 TEMP 7:15-7:45
DRILLING PROBLEMS _____
OTHER _____
CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
1	1		high uneven	1.4 / 1.5	1	0000 0000 0000 0000	01	0.0-0.3 HUMUS - Peat
2					2	00		0.3 Klondike Gravel grey-beige matrix, ^{matrix} separated sand clast of various sizes and lithologies.
3	2	2		3.4 / 3.0	3	00	02	0.2-4 White Channel Gravel: grey-white matrix, cobbles more frequent than above.
4					4	00		
5					5	00	03	clast > 70% quartz 20-30% schist observed garnet clast @ 3.8 m
6	3	3		2.0 / 3.0	6	0000 0000 0000		
7					7		04	6.8-9.0 Bedrock Klondike Schist
8	4	4	v. high uneven	1.7 / 1.5	8			schistose texture abundant mica rusty brown color
9			v. high even				05 ARCHIVE	
10								9.0 E.O.H.
11								
12								
13								
14								
15								

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Page ____ of ____

DATE: July 15 2004

HOLE NO. IRS-04-30 DIAMETER 6" ELEVATION 459 m

SHIFT HOURS

LOCATION E0582560 N 7071291 (site A028)

to

GEOLOGIST S. KEANS DRILLER McAndrew

TOTAL HOURS

MOVE TO HOLE 4:30 → 5:00 (drill 5:00 → 6:30 July 15)
MECHANICAL DOWN TIME (drill 8:00 - 9:40 July 16) TEMP 7.15-7.45

DRILLING PROBLEMS

CONTRACT HOURS

OTHER

CONSUMABLES

Depth (Metres)	Run No.	Rod No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
1	1		high uneven	1.4 / 1.5	1	0000 0000 0000 0000	01	0.0-0.3 HUMUS - ROOT
2					2	0000		0.3 Klondike Gravel grey-beige matrix, ^{MATRIX} supported sand clast of various sizes and lithologies.
3	2			3.4 / 3.0	3	0000	02	@ 2.4 White Channel Gravel:
4					4	0000		grey-white matrix, cobbles more frequent than above.
5					5	0000	03	clast > 70% quartz 20-30% schist
6	3			2.0 / 3.0	6	0000		observed garnet base @ 3.8 m
7					7		04	6.8-7.0 Bedrock Klondike Schist
8	4	4	v. high uneven v. high even	1.7 / 1.5	8		05 ARCHIVE	schistose texture abundant mica rusty brown color
9								9.0 E.O.H.
10								
11								
12								
13								
14								
15								

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED

SONIC DRILL HOLE LOG

Page 1 of 1

DATE: July 16 2004

SHIFT HOURS

to

TOTAL HOURS

CONTRACT HOURS

HOLE NO. IRS-04-31 DIAMETER 6" ELEVATION 469m
LOCATION E 0582 293 N 7071136
GEOLOGIST SKEANS DRILLER J. CRAMM
MOVE TO HOLE 9:40 → 1:40 drill 1:40 → 4:45
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS *stuck on line running south from hde 29 (built camp cut
OTHER Path to better ground.
CONSUMABLES (WATER 9:40 → 10:45)

Depth (Metres)	Run No.	Rod No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
1	1	1	low	1.9 / 1.5				0.0-0.3 HUMUS - PEAT
2								0.5-5.1 Frozen brown silt grading to beige downward.
3	2	2	moderate	4.3 / 3.0				5.1 Klondike Gravel
4			moderate-high even					grey-beige silty-clay matrix with pebble clast. Frozen silt layers interbeds.
5			high even					
6	3	3	high even	4.1 / 3.0	1	0 0 0	01	@ 7.2-9.1 frozen gravel section
7			high uneven		2	0 0 0		clast → subangular to subrounded
8	4	4		1.9 / 1.5	3	0 0 0	02	MATRIX supported with assorted varieties of pebbles and occasional cobbles.
9			high even		4	0 0 0		
10	5			2.2 / 1.5	5	0 0 0	03	BEDROCK
11					6	0 0 0		4.1-10.5 Klondike Schist grey to brown
12					7	0 0 0	04	schistose texture
13					8	0 0 0		MICACEOUS laminations
14					9	0 0 0		saprolitic
15								10.5 E.O.H.

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED SONIC DRILL HOLE LOG

Page 1 of 1DATE: July 16/17 2004

SHIFT HOURS

to

TOTAL HOURS

CONTRACT HOURS

HOLE NO. FRS-04-32 DIAMETER 6" ELEVATION 492m
LOCATION (512 046) E 0587098 N 7070780
GEOLOGIST S. KEAYS DRILLER J. CRAMM
MOVE TO HOLE 4:45 → 5:11 Drill 5:40 - 6:20 July 16
MECHANICAL DOWN TIME TRAVEL 6:30-7:00 July 17 7:00-7:45 Travel
DRILLING PROBLEMS drill 8:00 → 10:10
OTHER _____
CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
1	1	1	low	1.4/15	1	MINI	01	0.0-0.5 HUMUS - PEAT 0.5-0.6 silt layer.
2			moderate even		2	ooo		
3	2	2	high uneven	3.8/3.0	3	ooo	02	0.6-5.9 Klondike GRAVEL light olive tan sandy matrix mostly pebble cast occasional cobbles, cast: subangular to subrounded @ 3.8m Frozen silt to fine gr sand layer with cast poor matrix
4			high uneven		4	ooo		
5					5	ooo		
6	3	3		3.0/2.0	6	ooo	03	5.9-8.5 BedRock (Klondike Schist) - schistose texture - competent layers - micaceous laminations.
7			high even - uneven	1.2/1.0	7	ooo		
8	4	4		1.2/1.0	8	ooo	04	note: drill deep to confirm BedRock
9					9	ooo		8.5 E.O.H.
10					10	ooo		
11					11	ooo		
12								
13								
14								
15								

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Page 1 of 1

DATE: July 17 2004

SHIFT HOURS

to

TOTAL HOURS

CONTRACT HOURS

HOLE NO. IRS-04-33 DIAMETER 6" ELEVATION 499m
LOCATION E0581632 N7071107 (site A047)
GEOLOGIST S. LEAVS DRILLER J. CRAMM
MOVE TO HOLE 10:10 → 12:30 [setup: 12:30-1:40] drill 1:45-2:50
MECHANICAL DOWN TIME
DRILLING PROBLEMS
OTHER
CONSUMABLES WATER 10:30 → 12:00

Depth (Metres)	Run No.	Rod No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
1	(1)	1	low	24/15				0.0-0.3 HUMUS - PEAT
2					1		01	0.3-1.6 Frozen brown silt grading to heavy downward.
3	(2)	2	moderate	37/30	2			1.6-2.5 Klondike Gravel
4			High		3		02	Frozen sandy to silty matrix
			v. high				ARCHIVE	thin matrix supported, pebble clast - clast poor gravel,
5								2.5-4.5 Klondike Schist
6								schistose texture, rusty yellow to grey micaceous laminations throughout.
7								note: all fragments are angular.
8								4.5 E.O.H.
9								
10								
11								
12								
13								
14								
15								

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Page 1 of 1

DATE: July 17 2004

HOLE NO. IRS-04-34 DIAMETER 6" ELEVATION 478

SHIFT HOURS

LOCATION E058/697 N7071502 (264A)

to

GEOLOGIST S. KEAYS DRILLER J. CRAMER

TOTAL HOURS

MOVE TO HOLE 3:00 → 3:30 (stop 3:30-4:10) DRILL: 4:20 → 6:30

MECHANICAL DOWN TIME

DRILLING PROBLEMS Trouble setting up rig.

CONTRACT HOURS

OTHER

CONSUMABLES

Depth (Metres)	Run No.	Rod No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
1	1		low	2.4 / 1.5				0.0-0.4 HUMUS - PEAT
2								0.4-1.8 fine silt brown
3	2	2	moderate	4.3 / 3.0	1			1.8-2.4 Klondike GRAVEL
4			high uneven		2		01	silty, matrix supported, clast poor layers, pebble chert only.
5					3			@2.4-6.4
6	3	3	high even		4		02	sandy, matrix supported abundant variation of clast: Lithology's (quartz 30-40%) chert ~5% (Klondike schist 20-30%)
7			v. high uneven	2.2 / 1.0	5		03	also observed some within this section
8	4			0.8	6		04	0.4-7.5 BedRock (Klondike Schist) competent, grey with rusty red & yellow schistose texture micaceous lamination present.
9					7			
10					8			7.5 E.O.H.
11								
12								
13								
14								
15								

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

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DATE: July 18 2004

SHIFT HOURS

to

TOTAL HOURS

CONTRACT HOURS

HOLE NO. IRS-04-35 DIAMETER 6" ELEVATION 456 m

LOCATION E0581722 N7071701 (1/2 A030)

GEOLOGIST S. KEYS DRILLER ANWAR

MOVE TO HOLE TRIP: 7:20-8:00 TRAVE() setup (8:13-8:45)

MECHANICAL DOWN TIME drill; 8:50-10:40

DRILLING PROBLEMS

OTHER

CONSUMABLES

Depth (Metres)	Run No.	Rod No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
1	1		Low	25/15				0.0-0.2 HUMUS - PEAT
2								0.2-5.3 FROZEN brown silt grading to grey downward.
3	2		moderate	6.0/3.0				5.3-6.6 Klandike GRAVEL
4								grey to light ochre silty to clayey matrix, with mostly pebble dust, rare cobble
5								chst include: 750% quartz, 20-30 Klandike schist
6	3		High	3.9/2.5			01	chst are mostly subrounded
7							02	
8	4		High	12/13			03	6.6-8.3 Badrock (Klandike Schist)
9							ARCHIVE	- grey to dark green. minor yellow rusty laminations.
10								- micaceous laminations
11								- schistose texture
12								competent sections
13								
14								
15								8.3 E.O.H.

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED SONIC DRILL HOLE LOG

Page 1 of 1DATE: July 18/19 2004

SHIFT HOURS

_____ to _____

TOTAL HOURS

CONTRACT HOURS

HOLE NO. IRS-04-36 DIAMETER 6" ELEVATION 454m
LOCATION E0582101; N7071675 (site A051)
GEOLOGIST S. KEAVS DRILLER ANWAR
MOVE TO HOLE July 18 { July 19: 11:45 unstuck with CAT.
MECHANICAL DOWN TIME 11:30 got stuck (see notes) { 12:15 - 2:45 including redrill of 4.5m *
DRILLING PROBLEMS _____
OTHER July 19 (8:00 - 11:00 spot holes and worked on Layout)
CONSUMABLES WATER 10:50 -> 1:00

Depth (Metres)	Run No.	Rod No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
1	1	1	low	0.9 / 1.5				0.0-0.2 PEAT-HUMUS
2			High uneven		1	000	01	0.2-1.3 Brown silt
3	2	2		2.0 / 3.0	2	000	02	* 1.3-5.0 Klandike Gravel.
4					3	000	03	MATRIX supported silt to fine sand.
5			high even		4	0000		clast range between pebbles - boulders
6	3	3	high even	2.9 / 3.0	5		04	more cobbles than usual. The
7					6			clast size increases towards contact with
8					7			Bedrock.
9					8			>50% quartz
10								20% Klandike schist
11								5.0-7.5 (Klandike Schist) Bedrock
12								@5.0m soft clayey
13								@6.0m more competent
14								- micaceous lamination
15								- schistose texture
								- blue grey color
								7.5 E.O.L.
								* Experience 75% core loss between interval
								1.5-4.5m, when hole was completed moved
								rig ahead one meter and redrilled 0-4.5m
								sample interval, to recover core.
								EXTRA 4.5m added.

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Page 1 of 1

DATE: July 19 2004

HOLE NO. IRS-04-37 DIAMETER 6" ELEVATION 441 m

SHIFT HOURS
to

LOCATION E 0581532 N 7071948 (site A0033)

GEOLOGIST SKEAYS DRILLER ANWAR

MOVE TO HOLE 3:10 - 3:50, Drill; 4:00 - 6:15

TOTAL HOURS

MECHANICAL DOWN TIME

DRILLING PROBLEMS loss core between 5.5m - 6.0m "didn't redrill"

CONTRACT HOURS

OTHER

CONSUMABLES

Depth (Metres)	Run No.	Rod No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
1	1		low	0.9/1.5				0.0-0.4 HUMUS - PEAT
2					1		01	0.4-1.2 brown silt unfrozen
3	2		high uneven	3.1/3.0	2		02	1.2-4.9 Klondike Gravels
4					3			@1.1-1.5 → clay poor layers oxidized, ochre colored MATRIX
5	3		v. high uneven	1.9/1.0	4		03	MATRIX supported, clast include a variety of sizes, rounded to subrounded occasional cobbles, 75% quartz
6	4	3	v. high even	0/0.5	5		04 ARCHIVE	@3.0m Possible W.E. gravels because of white to grey matrix. However lithology includes 70% chert clast
7								4.9-5.5 Klondike Schist
8								schistose texture, micaceous, grey
9								5.5 E.O.H.
10								
11								
12								
13								
14								
15								

COMMENTS:

driller had difficulty drilling thru bedrock "to Dry" could not cut rock ∴ no core recovery possible for .5m interval.



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Page 1 of 2

DATE: July 20 2004

SHIFT HOURS

to

TOTAL HOURS

CONTRACT HOURS

HOLE NO. IRS-04-38 DIAMETER 6" ELEVATION 460m
LOCATION E0581477 N7071639
GEOLOGIST SKEAYS DRILLER ANWAR
MOVE TO HOLE 7:30 → 8:30 (setup 8:30-9:50) Drill; 10:00-10:15
MECHANICAL DOWN TIME 10:15 - 3:15 drilled down to LAST sealant
DRILLING PROBLEMS to fix leaking gasket.
OTHER Drill 3:15 → 6:30
CONSUMABLES (WATER 7:30 → 8:30)

Depth (Metres)	Run No.	Rod No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
0.0-0.3	1	1		22/15				HUMUS - PEAT
0.3-1.2			low even 15	22/15	1		01	silt - brown, Frozen organic lenses
1.2-14.7m	2	2	moderate uneven	5.0/3.0	2			Klondike Gravel
1.2-1.5					3		02	clast poor gravel, silty matrix with small pebbles
1.5-2.5m			moderate even	3.9/3.0	4		03	clast more abundant, mostly pebble size, >40% quartz, clast.
2.5-6.5	3	3		3.9/3.0	5		04	Followed by gray to black silt section partially frozen; mica abundant no cobble size clast present.
6.5-13.7					6		05	interbed of frozen Gravel, silty matrix, pebble clast include >10% clast >50% quartz
13.7-14.7			High even		7		06	Gravel with abundant clast both pebbles and cobbles >30% Klondike schist.
14.7-15.5	4	4		4.4/3.0	8		07	Back Klondike Schist
15.5			moderate uneven	3.9/3.0	9		08	grey micaceous laminations, schistose texture
					10			
					11			
					12			
					13			
					14			
					15			
	5	5			16			
					17			
					18			
	6	6	v. high even					

COMMENTS:

OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

DATE: July 20 2004

HOLE NO. IRS-04-38 DIAMETER _____ ELEVATION _____

SHIFT HOURS

LOCATION contd.

_____ to _____

GEOLOGIST, _____ DRILLER _____

TOTAL HOURS

MOVE TO HOLE _____

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS

CONTRACT HOURS

OTHER _____

CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
16 X	6	6		3.1 2.0	19		09 ARCHIVE	15.5 E.O.H.
17 X								
18 X								
19 X								
20 X								
21 X								
22 X								
23 X								
24 X								
25 X								
26 X								

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Page 1 of 1

DATE: July 21 2004

HOLE NO. IRS-04-39 DIAMETER 6" ELEVATION 475

SHIFT HOURS

LOCATION E0581 368; N7071473 (SITE A055)

to

GEOLOGIST S. KEAYS DRILLER ANWAR

TOTAL HOURS

Drill 9:30-12:00

MECHANICAL DOWN TIME

DRILLING PROBLEMS

CONTRACT HOURS

OTHER

CONSUMABLES water (7:45-8:40) need to pull rodwell; setup (8:40-9:30)
TRAVEL; 7:10-7:45 A.M.

Depth (Metres)	Run No.	Rod No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
0.0-0.4								HUMUS-PEAT
1	1		low		1		01	clast poor Klondike Gravels
2					2			brown silty matrix, clast poor
3	2		moderate High uneven	5.9 / 1.5	3			Throughout section clast include >50% quartz
4					4		02	10% chert
5					5			
6	3		high and even	5.1 / 3.0	6		03	Bedrock Klondike Schist
7					7			- schistose texture
8					8			- Angular fragments
9	4			4.0 / 2.5	9			- micaceous laminations
10					10		04	- grey color
11					11			
12					12		05	
13					13			
14					14		06	
15	5			0.3 / 0.5	15			

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED SONIC DRILL HOLE LOG

Page ____ of ____

DATE: July 21 2004

SHIFT HOURS

_____ to _____

TOTAL HOURS

CONTRACT HOURS

HOLE NO. IRS-04-40 DIAMETER 6" ELEVATION 464 m
LOCATION E 0581023 N 7071608 (site A0031)
GEOLOGIST S. KEAL/S DRILLER ANWAR
MOVE TO HOLE 12:00 - 1:45 set up drill 1:45 - 3:50
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER _____
CONSUMABLES (WATER RUN 2:00 - 2:30)

Depth (Metres)	Run No.	Rod No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
1	1		low	1.4 / 1.5	1		01	00-0.4
2					2			0.4 - 6.8 <u>Klondike Gneiss</u>
3	2		moderate	4.9 / 5.0	3		02	@ 2.9 clast poor gravel. silt to sand matrix, clast only include pebble sized. some frozen sections. improved
4			high uneven		4			@ 2.9 - 3.2 frozen interbedded gravel
5					5			@ 5.3 clast rich section, matrix separated with a silty matrix, clast 40% quartz 25% chert.
6	3			3.9 / 5.0	6		03	— observed clast clast @ 6.6 m
7			high even		7			6.8 - 7.5 <u>Bedrock</u> <u>Klondike Schist</u>
8					8		04	micaceous laminar schistose texture competent section.
9					9		05	7.5 E.O.H.
10					10			
11								
12								
13								
14								
15								

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Page 1 of 1

DATE: July 21/22 2004

HOLE NO. IRS-04-41 DIAMETER 6" ELEVATION 443m

SHIFT HOURS

LOCATION ED581157 N 7071811 (A052)

to

GEOLOGIST S. KEAYS DRILLER ANWAR

TOTAL HOURS

July 21: drill: 4:00 → 6:45 July 22: (8:00 - 8:40 AM)

MECHANICAL DOWN TIME

DRILLING PROBLEMS

CONTRACT HOURS

OTHER

CONSUMABLES

Depth (Metres)	Run No.	Rod No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
1	①	1	low					0.0-0.5 HUMUS - PEAT
2								0.5 - 5.5 frozen brown silt with organic lenses
3	②	2	moderate	36/45				5.5 - 8.4 Klondike Gravel matrix supported, assorted pebbles with occasional cobbles chert - 70% chert 70% quartz rounded to subrounded
4								
5								
6	③	3	high uneven	40/3.0	1		01	8.4 Bedrock (Klondike Schist)
7					2			- grey - micaceous - schistose texture
8	4	4		1/1.3	3		02	
9					4			
10	5		high even	22/1.2	5		03	10 E.O.H
11					6		ARCHIVE	
12								
13								
14								
15								

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Page 1 of 1

DATE: July 22 2004

HOLE NO. IRS-04-42 DIAMETER 6" ELEVATION 445 M

SHIFT HOURS

LOCATION E0580906 N 7071850

to

GEOLOGIST S. KEAYS DRILLER ANWAR

TOTAL HOURS

MOVE TO HOLE (8:30-9:36) Drill 9:40-11:15

MECHANICAL DOWN TIME

DRILLING PROBLEMS

CONTRACT HOURS

OTHER

CONSUMABLES

Depth (Metres)	Run No.	Rod No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
1	1		low moderate					0.0-0.4 HUMUS - peat
2								0.4-2.0 Frozen brown silt with organics
3	2		moderate uneven	5.8 / 4.5	1		01	2.0-5.2 m Klondike Gravel
4			high uneven		2			@ 2.0-2.9 Frozen gravel subangular to subrounded chert silty matrix. assorted pebbles
5	3		v. high even	1.8 / 1.5	3		02	
6					4			@ 2.9-3.9 chert poor silt layers.
7					5		03 ARCHIVE	
8								@ 3.9-5.2 Gravel to Bedrock interface angular to subangular pebbles and cobbles >70% Klondike schist (fragments of bedrock)
9								5.2-6.0 Bedrock Klondike Schist silty grey to rusty orange - schistose texture
10								- MICACEOUS
11								
12								6.0 E.O.H.
13								
14								
15								

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Page 1 of 1

DATE: July 22 2004

HOLE NO. IRS-04-43

DIAMETER 6"

ELEVATION 447m

SHIFT HOURS

LOCATION E0580872; N2672376 (4034)

GEOLOGIST SKEAYS

DRILLER ANWAR

MOVE TO HOLE 11:15 → 12:00 Drill: 12:10 → 2:40

TOTAL HOURS

MECHANICAL DOWN TIME

DRILLING PROBLEMS

CONTRACT HOURS

OTHER

CONSUMABLES

Depth (Metres)	Run No.	Rod No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
1	1		low	1.7 1.5				0.0-0.5 HUMUS PETT
2			moderate					0.5-3.6 unfrozen silt brown grading to beige downward.
3	2		High uneven	2.4 3.0				@ 3.6 silt grades to sand.
4					1		01	4.1 Klondike Gravel
5	3		High uneven	1.6 1.0	2	0000 0000 0000 0000		matrix supported fine sand matrix with assorted non-spherical pebbles
6	4	3	High even	1.0 1.0	3	0000 0000 0000	02	clast: 75% quartz 70% chert 20% Klondike schist subrounded to subangular
7							03 ARCHIVE	@ 5.0 Possible white Channel Gravel
8								grey cement matrix. 74% Klondike schist mostly pebbles and occasional cobbles
9								
10								5.5 Klondike Schist Bedrock
11								up to grey schistose texture micaceous lamination
12								E.O.H. 6.5m
13								
14								
15								

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED

SONIC DRILL HOLE LOG

Page 1 of 1DATE: July 22²³ 2004

SHIFT HOURS

to

TOTAL HOURS

CONTRACT HOURS

HOLE NO. IRS-04-44 DIAMETER 6" ELEVATION 454
LOCATION E0580 552 N 707 2442 (SITE A035)
GEOLOGIST SKEANS DRILLER ANWAR
MOVE TO HOLE JULY 22: 2:40 → 3:15 DRILL 3:15 - 6:30
MECHANICAL DOWN TIME JULY 23: DRILL: 8:30 - 9:20
DRILLING PROBLEMS Trouble getting solid casing, thick muskeg layer.
OTHER TRAVEL 7:20 → 8:00
CONSUMABLES RAN OUT of 6" core bags USE 4" core bags to line core boxes.
SDS must provide core bags.

Depth (Metres)	Run No.	Rod No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
1	1		low			MAN		00-05 HUMUS - PEAT
2								05-7.8 Frozen brown silt grading to beige downward
3	2	2	moderate	50/45				7.8-10.8 Klondike GRAVELS
4								@ 7.8-8.0 clast poor mostly quartz pebbles
5								@ 8.0-10.6 assorted varieties of subrounded clast 74% quartz 30%-40% Klondike schist
6	3	3		38/3.0				silty matrix supported.
7								@ 10.6 angular to subangular clast of Klondike schist
8			High uneven		1	0000		10.8 - 12 Bedrock Klondike Schist
9	4	4		4.2/3.0	2	0000	01	- grey to rusty orange
10			v. high uneven		3	0000		- micaceous lamination
11	5		v. high even	1.2/1.0	4	0000	02	- schistose texture
12	6			0.5/0.5	5	0000	03	- competent
13					6	0000		
14					7	0000		
15								

E.O.H 12M

COMMENTS: July 23 - SDS RAN OUT of 6" core bags → must use 4" bags as a liner in a box.
core



OVERBURDEN DRILLING MANAGEMENT LIMITED SONIC DRILL HOLE LOG

Page 1 of 1

DATE: July 23 2004

SHIFT HOURS

to

TOTAL HOURS

CONTRACT HOURS

HOLE NO. TR5-04-45 DIAMETER 6" ELEVATION 467 m

LOCATION E0580451 N 707 2266 site A057

GEOLOGIST S. KEAYS DRILLER ANWAR

MOVE TO HOLE 9:40 → 12:00

MECHANICAL DOWN TIME

DRILLING PROBLEMS Got drilling mudwell stuck @ 10:20 → 12:00

OTHER Drill: (12:30 - 3:45)

CONSUMABLES Water 9:40 → 10:40

spotted holes while waiting for drill to be unstuck.

Depth (Metres)	Run No.	Rod No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
1	1	1		1.6 / 1.5				0.0-0.4 HUMUS-PEAT
2			low					0.4-2.5 brown silt grading to beige downward.
3	2	2		4.1 / 3.0				2.5 frozen silt - no dust present
4								8.9-11.6 Klondike Gravels
5								8.9-10.1m dust poor gravel, mostly quartz, chert.
6	3	3	moderate	4.6 / 3.0				10.1 Frozen gravel. subangular to subrounded chert >40% quartz, mostly pebble, occasional cobble.
7								silty matrix brown-grey.
8								25% chert abundant.
9	4	4		3.0 / 3.0				74% quartz
10					2		01	
11			high		3			
12	5	5		3.3 / 2.5	4		02	
13					5			
14					6		03	
15								11.6-13 Bedrock Klondike schist

13. E.O.H.

COMMENTS: July 23 - SDS RAN OUT of 6" core bags → must use 4" bag column in core box

OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Page 1 of 1

DATE: ^{23,} July 24 20 04

HOLE NO. IRS-04-46 DIAMETER 6" ELEVATION 494m

SHIFT HOURS

LOCATION E0580232 N7071431 (site A038)

_____ to _____

GEOLOGIST SKEAYS DRILLER ANWAR

TOTAL HOURS

MOVE TO HOLE stuck from 4:30-6:00 setup 6:00-6:30 n

MECHANICAL DOWN TIME July 24 Travel 7:15-8:15

DRILLING PROBLEMS Drill 8:30 → 10:15

CONTRACT HOURS

OTHER TRAVEL 6:30 - 7:30 PM 7 10:30 → MOVE 12:00 TRUCKS

CONSUMABLES WATER 4:00-5:00 (CONE OFF [NODUEL-WATER CARRI

see notes

Depth (Metres)	Run No.	Rod No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
0.0-0.4								HUMUS - PEAT
0.4-2.7								Brown silt (Frozen) with organic lenses
2.7-4.6								<u>CLAST POOR Klondike Gravel</u>
4.6-5.5								light ochre (oxidized) silt layer with occasional pebbles of >60% Klondike schist, 30% quartz. clast are subrounded to subangular.
5.5-6.3								silt layer very few clast observed.
6.3-7.1								as one approaches interface with bedrock high content of angular clast, mostly Klondike schist. degraded bedrock.
7.1-8.5								<u>Bedrock (Klondike Schist)</u> grey to rusty orange micaceous schistose texture
8.5 E.O.H.								

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED SONIC DRILL HOLE LOG

Page 1 of 2DATE: July 25 2004
SHIFT HOURS _____ to _____

TOTAL HOURS _____

CONTRACT HOURS _____

HOLE NO. IRS-04-47 DIAMETER 6" ELEVATION 468m
LOCATION E 0580567 N7072080 (site AQ39)
GEOLOGIST SKEALS DRILLER AMMAR
MOVE TO HOLE 8:00-9:00, (9:00-10:15 setup) Drill 10:11-2:00
MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____
OTHER TRACK WAS FIXED @ 7:30 PM July 24
CONSUMABLES WATER (12:00-1:00)

Depth (Metres)	Run No.	Rod No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
1	1	1	low					0.0-0.4 HUMUS - PEAT
2								0.4-2.0 Frozen silt brown grading to beige downward.
3	2	2		5.4 / 4.5	1		01	2.0 Klondike CLAST-POOR GRAVEL
4					2			occasional pebble clast within silt
5			moderate		3			MATRIX, observed subangular to subrounded
6	3	3		4.2 / 3.0	4			dast - quartz
7					5		02	Klondike schist.
8					6			MATRIX color ranges from light olive-beige
9	4	4	moderate	4.1 / 3.0	7			@ 3.0-3.9 m no dast visible beige silt layer
10					8		03	@ 7.4 discolored dast >80% Klondike schist
11					9			
12	5	5	high	no core recovery 3.0	10		04	@ 14.4 Klondike Gravel
13					11			thin
14			high		12			MATRIX supported gravel layer
15			u. high	5.1 / 3.0	13		05	clast
					14		06	730% Klondike schist
					15			760% quartz
					16		07	subrounded to subangular.

COMMENTS:

OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Page 2 of 2

DATE: July 25 2004

HOLE NO. IRS-04-47 DIAMETER _____ ELEVATION _____

SHIFT HOURS

LOCATION (contd.)

_____ to _____

GEOLOGIST _____ DRILLER _____

MOVE TO HOLE _____

TOTAL HOURS

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS

CONTRACT HOURS

OTHER _____

CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
16					17		07 08 ARCHIVE	16 E.O.H.
17								
18								
19								
20								
21								
22								
23								
10								
11								
12								
13								
14								
15								

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED SONIC DRILL HOLE LOG

Page 1 of 1

DATE: July 25²⁶ 2004

SHIFT HOURS

to

TOTAL HOURS

CONTRACT HOURS

HOLE NO. IRS-04-48 DIAMETER 6" ELEVATION 450 m
LOCATION E0380860 N7072097 (site A038) / Super Hole #2
GEOLOGIST SKEAYS DRILLER ANUAR
MOVE TO HOLE 2:00 - 4:00 July 25 Drill: 4:00 → 6:30 p.m. (used water) 6:30-7:30
MECHANICAL DOWN TIME July 26 begin drilling 8:00 / BREAK DOWN*
DRILLING PROBLEMS 8:00 a.m. → 6:15 p.m.
OTHER Drill (6:15 - 8:00 p.m.)
CONSUMABLES Travel (8:00 - 9:00 p.m.)

Depth (Metres)	Run No.	Rod No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
1	(1)	1	Moderate-high uneven	1.0 / 1.5	1	0 0 0 0 0 0 0 0 0 0 0 0	01	0.1 Klondike GRAVELS light chert MATRIX supported, silt-sand matrix clast subrounded to rounded. mostly pebbles, occasional cobbles 10% chert 740% quartz 730% Klondike schist
2					2	0 0 0 0 0 0 0 0 0	02	@ 1.8 20cm silty layer.
3	(2)	2		2.6 / 3.0	3	0 0 0 0 0 0 0 0 0 0 0 0		5.1-6.8 Highly oxidized layer @ 6.4- Balder dark chert matrix 6.5 fragments
4					3	0 0 0 0 0 0 0 0 0		dust 10% chert < 1% Jasper
5				1.7 / 2.0	4	0 0 0 0 0 0 0 0 0	03	@ 6.8 WHITE CHANNEL GRAVELS cobbles more numerous > 70% quartz clast clast sub rounded. - grey-white silt-sand matrix - occasional pebbly sand.
6	3	3	high uneven	1.8 / 2.0	5	0 0 0 0 0 0 0 0 0	04	
7	(4)			1.8 / 1.0	6	0 0 0 0 0 0 0 0 0		
8	5		very high uneven	1.5 / 1.5	7	0 0 0 0 0 0 0 0 0	05	
9		4		2.0 / 1.5	8	0 0 0 0 0 0 0 0 0		
10	(6)		v. high even		9	0 0 0 0 0 0 0 0 0	06	@ 9.0-10.5 m Bedrock (Klondike Schist) - schist weathered rusty red - dark grey. - schistose texture - micaceous
11								
12								
13								
14								
15								

COMMENTS: * Ready to drill, then engine cut out. took engine apart, concluded that a specialized bolt was the root of problem, Driller's drove to Dawson for replacement. Return to drill replacing this bolt was not the problem, after phoning (SKEAYS) SHOP determine it was the fuel injection, starting drilling 6:15 →



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Page 1 of 1

DATE: July 27 2004

SHIFT HOURS

to

TOTAL HOURS

CONTRACT HOURS

HOLE NO. IRS-04-49 DIAMETER 6" ELEVATION 460 m
LOCATION E0584062; N7070697 site (A059)
GEOLOGIST S. KEAYS DRILLER ANNAR
MOVE TO HOLE 8:30 - 1:00 Drill 1:00 - 3:30
MECHANICAL DOWN TIME
DRILLING PROBLEMS
OTHER
CONSUMABLES [long move from urban grid included water, gas]

Depth (Metres)	Run No.	Rod No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
1	1		high uneven	1 1/4	1	0000 0000 0000	01	0.0-0.1 HUMUS - PEAT 0.1 Klondike Gravels
2					2	0000 0000		silty matrix supported light ochre - beige
3				45 3/4	3	0000 0000	02	- assorted variation of pebble-sized clast, occasional cobbles
4	2				4	0000 0000		30-40% Klondike Schist 740% quartz
5			high		5	0000 0000		- observed granules between 30-5.8 m
6					6	0000 0000	03	@ 5.8
7	3		high	42 3/4	7	0000 0000		Light ochre. silt layers with - clast poor sections
8					8	0000 0000	04	ochre grades to beige with depth.
9					9	0000 0000		@ 7.6-7.8 frozen gravel interbed.
10					10	0000 0000		@ 9.1 brown silt layer, clast poor frozen.
11	4			41 3/4	11	0000 0000	05	
12					12	0000 0000		
13					13	0000 0000		
14					14	0000 0000	06	10.4 Bedrock Klondike schist
15	5		v. high even	1 1/4	15	0000 0000		rusty orange micaceous schistose texture.
								→ Determined not to be bedrock sample to bottom. small clast quartz, chert discovered in section
								E.O.H. 11.5

COMMENTS: 8:20 driller return to camp.



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Page 1 of 1

DATE: July 28 2004

SHIFT HOURS

_____ to _____

TOTAL HOURS

CONTRACT HOURS

HOLE NO. IRS-04-50 DIAMETER 6" ELEVATION 465

LOCATION E 0583885 N 7070782 (site AUG1)

GEOLOGIST S. KEAYS DRILLER ANWAR

MOVE TO HOLE Drill: 8:30 - 10:50

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

OTHER _____

CONSUMABLES Tool 7:20 - 8:30

Depth (Metres)	Run No.	Rod No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
1	1		High	1.2/1.5	1		01	0.0-0.2 HUMUS - PEAT
2					2			0.2-4.5-5.7 Klandike Gravel
3	2			4.5/3.0	3		02	silty matrix supported assorted varieties of clast with diverse Lithology, mainly pebbles.
4					4			@4.5-5.7 light ash gravel
5					5			
6	3		v. high	4.4/3.0	6		03	@5.7 W.C. Gravel
7					7			grey-white matrix sandy matrix
8					8		04	frequency of cobbles increase
9	4		high even	2.2/2.0	9			clast include - quartz - schist
10					10		05	7.9-9.5 Bedrock Sandstone
11					11			- fine gr. -
12					12		06	- competent
13					13			- preserved core.
14								9.5 E.O.H.
15								

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Page 1 of 1

DATE: July 28 20 04

HOLE NO. IRS-04-51 DIAMETER 6" ELEVATION 500 m

SHIFT HOURS

LOCATION E0584665; N706 915'6 (site A040)

to

GEOLOGIST J. KEAVS DRILLER ANUAR

MOVE TO HOLE 11:00-2:14 drilling; 2:15-4:30

TOTAL HOURS

MECHANICAL DOWN TIME

DRILLING PROBLEMS

CONTRACT HOURS

OTHER water carrier got stuck, took time to dislodge

CONSUMABLES

Depth (Metres)	Run No.	Rod No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
1	1		low	$\frac{29}{1.5}$				0.0-0.4 Humus - PEAT
2								0.4 - 2.2 Frozen beige silt layer
3	2		high	$\frac{57}{3.0}$	1		01	2.2 Klondike Gravel
4					2			beige silty matrix, matrix supported.
5					3			subrounded to subangular, mainly pebble with occasional cobbles.
6	3		High uneven	$\frac{41}{3.0}$	4		02	0.3-3.8 chert poor silt layer.
7			V. high uneven		5			observed garnet @ 4.0 m
8	4		V. high even	$\frac{29}{1.7}$	6		03	0.6 m - 9.2 Bedrock Conglomerate sandstone
9					7			pebble chert subangular - sub rounded
10					8			in coarse sand interbeds
11					9			mainly quartz, some jasper
12					10			water cracked extension rod 4 m to world to keep in place,
13					11			9.2 E.O.H.
14					12			
15					13			

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Page 1 of 1

DATE: July 28 20 04

HOLE NO. IRS-04-52 DIAMETER 6" ELEVATION 492m

SHIFT HOURS

LOCATION EDS84262; N 706 9159

to

GEOLOGIST JKAYS DRILLER AWAR

TOTAL HOURS

MOVE TO HOLE

MECHANICAL DOWN TIME

DRILLING PROBLEMS Drill (4:00 - 6:40)

CONTRACT HOURS

OTHER

CONSUMABLES

Depth (Metres)	Run No.	Rod No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
1	G 1		low	1.1 1.5	1			0.0-0.5 Humus - PEAT
2					2		01	0.5-0.7 silt brown
3	G 2			4.9 3.0	3			0.7 Kladike Gravel
4			moderate		4		02	matrix supported, mainly pebbles occasional cobbles.
5					5			@ 1.8 frozen light whr silt layer clst poor.
6					6			grading to brown, micaceous
7					7			@ 4.0 frozen coarse sand - pebbly sand section.
8	3 3		high even	3.5 3.0	8		03	@ 4.6 gravel interval with green lign- sandstone.
9					9		04 ARCHIVE	@ 5.9 Bedrock Sandstone
10								green to grey fine gr. fragment altered to clay
11								
12								
13								
14								
15								7.5 E.O.H

COMMENTS: Run out of core boxes.
compared bedrock with other geologist.



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Page 1 of 1

DATE: July 29 2004

SHIFT HOURS

to

TOTAL HOURS

CONTRACT HOURS

HOLE NO. IRS-04-53 DIAMETER 6" ELEVATION 485m

LOCATION E0584894 N; 7069145 (site A062)

GEOLOGIST S. KEAYS DRILLER ANILWAR

MOVE TO HOLE from 7:00, 8:00 - 9:30 Drill: 9:30 - 12:00

MECHANICAL DOWN TIME

DRILLING PROBLEMS

OTHER Hole was stopped 2.5m away from 1.6m of bedrock had been

CONSUMABLES penetrated

Depth (Metres)	Run No.	Rod No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
0.0-0.4								HUMUS - PEAT
0.4 -	1	1	high	0.8/1.5	1		01	<u>Klondike Gravels</u>
2	2			2.0/2.0	2			mainly pebble clast - clast include 230% quartz green siltstone
3	2				3		02	silty to sandy matrix, ochre sub angular - sub rounded variety of Lithologies
4	3		v. high	2.0/1.0	4			@ 3.7 increase in frequency of cobbles
5					5		03	
6	4	3	v. high	4.0/3.0	6			@ 5.8 compact Gravels believed to be: <u>Bedrock [Conglomerate]</u>
7					8	?	04	mainly pebble clast, occasional cobble
					9		ARCHIVE	> 40% quartz
8						↓		competent core, crumbly, hematite stained
9								
10								
11								
12								
13								
14								
15								

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Page 1 of 1

DATE: July 29 2004

HOLE NO. IR3-04-54 DIAMETER 6" ELEVATION 484m

SHIFT HOURS

LOCATION E0 584659 ; N 706 8366

to

GEOLOGIST S. KEAYS DRILLER ANWAR

TOTAL HOURS

MOVE TO HOLE 12:00 → 12:30 Drill: 1:00 → 3:00

MECHANICAL DOWN TIME

DRILLING PROBLEMS

CONTRACT HOURS

OTHER

CONSUMABLES water obtained between holes

Depth (Metres)	Run No.	Rod No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
1	(1)	1	low	1.6 / 1.5	1			0.0-0.4 - HUMUS - PEAT
2			high		2		01	0.4-0.9 Frozen brown silt
3	(2)	2		4.1 / 3.0	3			0.9 Klandike Grands
4					4		02	mainly pebbles, matrix supported - heterolithic suite sub-angular - subrounded chert
5			high		5			near bedrock interface observed increase in chert size, up to cobble.
6	(3)	3		3.6 / 3.0	6			4.3 - 8.5 Barrock sandstone/siltstone
7					7		03	interbed of coarse gr. sandstone; observed stains of Jasper, chert. continued drilling due to possibility of being a gravel interbed.
8	4	4		1.2 / 1.0	10			@ 6.0m green to black siltstone (drill decreased in speed through this section).
9					11		04	
10								
11								
12								
13								
14								
15								

COMMENTS:

85 E.V.M.



OVERBURDEN DRILLING MANAGEMENT LIMITED SONIC DRILL HOLE LOG

Page 1 of 2

DATE: ^{29,} July 20 04

SHIFT HOURS

to

TOTAL HOURS

CONTRACT HOURS

HOLE NO. IRS-04-55 DIAMETER 6" ELEVATION 502 m
LOCATION ED584881; N 7068428 (site, A065)
GEOLOGIST S. KEAYS DRILLER ANWAR
MOVE TO HOLE [July 29: 3:00-5:00 moving 5:00-7:00 drill to 10.5m] [July 30: 8:30-
MECHANICAL DOWN TIME 12:15 waiting for water level of river to drop, 12:30-
DRILLING PROBLEMS 1:00 travel, resume drilling @ 1:00 - 7:20 to 20.5m, 7:30-
OTHER 9:45 travel, drillers truck got stuck in river, towed with winch
CONSUMABLES water July 30 (3:00-5:45) BACK →

Depth (Metres)	Run No.	Rod No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
1	1		low	0.5/1.5	1	0 0	01	00-05 HUMUS - PEAT
2			moderate		2	0 0		0.5-22.5 Klondike GRAVELS
3	2			4.5/3.0	3	0 0	02	0.5-1.5 last-poor brown-beige silt section.
4					4	0 0		@6.5m coarse sandy matrix, matrix supported small pebble clast.
5			high		5	0 0		@7.0 silty to sandy matrix supported dark to light ochre, matrix mainly pebble, occasional cobble several lithologies present. subangular-subrounded clast.
6	3			3.8/3.0	7	0 0	03	@11.2 gravel becomes more compact
7			v. high		8	0 0		@12.9 brown pebble size clast including >30% quartz 75% Klondike schist subrounded to subangular clast throughout.
8			high		11	0 0	04	
9	4		high uneven	3.7/3.0	12	0 0	05	carne to observed @ 14, 20.5, 22.3 m
10					13	0 0		@18m fragments of sub angular biotite gneiss.
11			high even	2.7/1.6	14	0 0	06	@ 20.5-21 matrix ranges from light ochre to basic
12	5				15	0 0		22.5 E.O.H.
13	6			1.7/1.4	16	0 0	07	note: Gravel appear to continue to 25.5 m
14					17	0 0		
15	7	6	EXTREMELY HIGH uneven	2.0/1.5	18	0 0	08	
					19	0 0		
					20	0 0		

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Page 2 of 2

DATE: July 29, 30 2004

HOLE NO. IRS-04-55 DIAMETER 6" ELEVATION 507 M

SHIFT HOURS
_____ to _____

LOCATION E0584881; N 7008428 (Site Addrs)

GEOLOGIST _____ DRILLER _____

MOVE TO HOLE contd.

TOTAL HOURS

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

CONTRACT HOURS

OTHER _____

CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
16	(8)	6	v. high	16/15	20	0 0 0	08	
					21	0 0 0		
						0 0 0		
17	9			1.7	22	0 0 0 0		
				1.2	23	0 0 0 0	09	
18		7				0 0 0		
	(10)			2.0	24	0 0 0		
19				1.8		0 0 0		
						0 0 0	10	
20	11		Extremely High	1.7	25	0 0 0		
				1.0		0 0 0 0		
21		8	No penetration intervals			0 0 0 0		
	12			1.6	26	0 0 0		
				1.8		0 0 0	11	
22						0 0 0		
	13			3.2	27	0 0 0		
23						0 0 0		
24	14	9						
25				No Recovery				
26								
27								
28								
29								
30								

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Page 1 of 1

DATE: July 31 20 04
August 1
SHIFT HOURS

to

TOTAL HOURS

CONTRACT HOURS

HOLE NO. IR504-56 DIAMETER 6" ELEVATION 512m

LOCATION E0584188 ; N 706 8268 (A068)

GEOLOGIST S. KEAYS DRILLER ANILWAR

MOVE TO HOLE [July 31] 3:30-5:30 → got stuck during MOVE, water carrier overhauled

MECHANICAL DOWN TIME Travel to camp 6:45-8:05 August 1 Travel 7:00-8:45

DRILLING PROBLEMS drill 9:30 → 11:00 AM

OTHER

CONSUMABLES

Depth (Metres)	Run No.	Rod No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
1	1		moderate	19/15	1			0.0-0.4 humus - PEAT
2					2		01	0.4-0.8 Frozen brown silt layer
3	2		high little reduction	35/3.0	3		02	0.8-3.1 clast poor silt layer small pebbles mostly ss.t chy hardens with depth.
4					4			@ 2.7 m more competent, compact silt layer (possible bedrock?)
5	3		high even		5		03	
6		3			6		ARCHIVE	3.1 Bedrock sandstone
7								ochre to tan fine sandstone angular fragments,
8								
9								E.O.H 5.8 m
10								
11								
12								
13								
14								
15								

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED
SONIC DRILL HOLE LOG

Page ___ of ___

DATE: August 01 2004

HOLE NO. IRS-04-57 DIAMETER 6" ELEVATION 529 m

SHIFT HOURS

LOCATION E 0584326; N 7067248 (site A069)

_____ to _____

GEOLOGIST S. KEAYS DRILLER ANWAR

TOTAL HOURS

MOVE TO HOLE 11:00 → 12:00 drill: 12:00 → 1:30

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

CONTRACT HOURS

OTHER _____

CONSUMABLES _____

Depth (Metres)	Run No.	Rod No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
1	1	1	moderate	1.0 / 1.5				0.0-0.4 Humus - PEAT
2			high					0.4-2.2 frozen beige silt
3	2	2	v. high ↓	4.2 / 5.0	1		01	2.2 - weathered sand layers dark green to dark olive.
4					2			2.5-6 Bedrock (sandstone)
5					3		02	- grey to green
6	3	3		1.9 / 1.5	4		ARCHIVE	- highly oxidized
7								- fine to med grains
8								- competent throughout
9								- no visible chert
10								
11								
12								
13								
14								
15								

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED SONIC DRILL HOLE LOG

Page 1 of 1DATE: August 01 2004HOLE NO. IRS-04-58 DIAMETER 6" ELEVATION 503m

SHIFT HOURS

LOCATION E 0584901 N 706739Z (site A067)

to

GEOLOGIST S. KEAYS DRILLER ANWAR

TOTAL HOURS

MOVE TO HOLE drill 2:15 → 4:50

MECHANICAL DOWN TIME

DRILLING PROBLEMS

CONTRACT HOURS

OTHER

CONSUMABLES

Depth (Metres)	Run No.	Rod No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
1	① 1		low	$\frac{12}{15}$				00-0.4 HUMUS - PEAT
2								0.4-7.9 Frozen silt, beige grading to green downword. - Green silt (or siltstone?)
3	② 2		moderate high	$\frac{41}{30}$				- clast absent
4					1		01	@ 7.9-9.2m Bedrock siltstone/sandstone silt horizons
5					2			
6	3 3		high	$\frac{40}{30}$	3		02	sandstone sections fine to med grains, dark ochre to dark grey, with oxidized sections.
7					4			
8			high		5			9.2m E.O.H.
9	4 4			$\frac{14}{17}$	6		03	
					7		04 ARCHIVE	note: Entire Hole was Archived
10								
11								
12								
13								
14								
15								

COMMENTS:



OVERBURDEN DRILLING MANAGEMENT LIMITED

SONIC DRILL HOLE LOG

Page 1 of 1

DATE: August 01, 2004
SHIFT HOURS 02
to

HOLE NO. IRS-04-59 DIAMETER 6" ELEVATION 503m
LOCATION E0585207; N 7067480 (site A070)
GEOLOGIST SILKENS DRILLER ANWAR

TOTAL HOURS

MOVE TO HOLE August 1; 4:50 → 5:30 pm DRILL: 6:00 → 7:30 TRAVEL 7:30-8:05
MECHANICAL DOWN TIME August 2; TRAVEL 7:20-8:45 DRILL 9:30-12:35 BEGIN MOVE 1:00 → to upstream bench

CONTRACT HOURS

DRILLING PROBLEMS during move water column got stuck @ Osborne camp [2:30 pm] CAT

OTHER called in, arrives @ 5

CONSUMABLES

Depth (Metres)	Run No.	Rod No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
0.0-0.5								HUMUS - SILT
0.5 - 8.2								Klondike GRAVELS
1	1	1	moderate	0.7 / 1.5				
2					1		01	mainly pebble, occasional cobble matrix supported, dark ochre, [highly oxidized] sandy, chert subrounded - subangular observed 4% Jasper 40% chert 730% quartz
3	2	2		2.0 / 3.0	2			
4			High uneven		3		02	
5					4			
6	3	3		3.5 / 3.0	5		03	@ 8.2 - 14.5 compact Klondike Gravel contact with compact Klondike Gravel, drill needs with extreme decrease in rotation speed. - assorted monocrystalline, mainly pebble size - heterolithic suite observed garnet @ 10.3 m hematite stains thorough with saproplitic texture. - chert appears more weathered, vuggy. - chert appears absent after 10m depth. - observed biotite gneiss chert @ 13.7, and 14.4m - remaining 4m have mainly small pebbles and little if any cobbles.
7					6		04	
8					7			
9	4	4	High	4.0 / 3.0	8			
10					9		05	
11					10			
12	5	5		2.9 / 1.7	11		06	
13					12			
14	6	6	V. high no relation	1.9 / 1.3	13			
15					14		07	
					15			
					16			
					17			

COMMENTS: ended Hole due to high resistance on drill penetration.



OVERBURDEN DRILLING MANAGEMENT LIMITED SONIC DRILL HOLE LOG

Page 1 of DATE: AUG. 3 20 04HOLE NO. IRS-04-60 DIAMETER 6" ELEVATION 481 M

SHIFT HOURS

LOCATION E 0594851 N 7069674

to

GEOLOGIST F. NELSON & S. MALMBERG DRILLER ANWAR HAK

TOTAL HOURS

MOVE TO HOLE TRAVEL FROM 7:30-9:00 AM; FIXED NODWELL TRACK 9:00-11:00 AM; HOLE MOVE 11:00-3:15 PM. STARTED SET-UP & DRILLING AT 3:30 PM. FINISHED DRILLING AT 7:15 PM.MECHANICAL DOWN TIME AT 3:30 PM.DRILLING PROBLEMS POOR CORE RETENTION.

CONTRACT HOURS

OTHER

CONSUMABLES

Depth (Metres)	Run No.	Rod No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
1	1		MODERATE	1.3	1		01	0.1-0.3 m - KLONDIKE GRAVEL - (w/ SOME ORGANICS) - granule sand pebble gravel; - ochre-coloured, crumbled black chert pebbles (~5%) R 0.5 cm, up to 1 cm; schist pebbles up to 3 cm; quartz wood & other organics mixed in top 0.2 m.
2					2			
3	2		MODERATE TO VERY HIGH	2.2 / 3.0	3		02	0.3-2.2 m - micaceous sand matrix - quartz & gneiss clasts up to 8 cm, x 3-4 cm. - honey-brown colour. - chert less than 5% 2.2 m - 13.5 m - WHITE CHANNEL GRAVEL - 2.2-3.2 m - slightly siltier matrix 3.2-4.5 m - gray quartzite clasts up to 15 cm. 4.5-5.8 m - abundant milky quartz up to 4 cm; black schist ~30%. - some sections (~10 cm thick) w/ good core preservation.
4					4			
5					5		03	
6	3		MODERATE	1.1 / 1.3	6			5.8-7.2 m - micaceous granule sand pebble gravel; clasts up to 5 cm; predominantly quartz, w/ fair amount of schist (Nasima?) (~20%)
7					7		04	
8					8			
9	4			1.3 / 1.3	9		05	- frozen silty pebble gravel; predominately quartz (~70%) w/ ~30% Nasima schist; subangular, sub-rounded. - little matrix - either open- work gravel, or drilling H ₂ O washed matrix away.
10					10			
11					11			8.2-8.8 m - sandy pebble gravel; angular quartz clasts up to 6 cm. Matrix micaceous. Pink granite clast ~4 cm.
12	5		MODERATE	1.3 / 1.3	12		06	10.5-11.5 m - slightly frozen silty pebble gravel; looks somewhat water washed from drilling?; quartz clasts up to 8 cm; schist clasts up to 6 cm.
13					13		07	
14					14			① 11 m - oxidized gravel lens ② 11.5 m - sandy pebble gravel; oxidized ③ 12 m - sandy pebble gravel; grey.
15					15			E.O.H. 13.5 - DID NOT REACH BEDROCK - SEE COMMENTS.

COMMENTS: EXTREMELY POOR CORE RETENTION (ONLY 33-43% OF CORE REMAINED PRESENT IN RUNS 1, 3, 4 & 5). ANWAR HAK (DRILLER) TRIED SEVERAL DIFFERENT THINGS - FOR EXAMPLE: MAINLY VIBRATING; SPINNING AT A FASTER RATE... AFTER THE 5TH RUN IT WAS DETERMINED THAT SUCH A GREAT LOSS OF THE CORE WAS UNACCEPTABLE. THE USE OF ROTASONIC DRILLING TECHNOLOGY IN PURE WHITE CHANNEL GRAVEL MUST BE EXAMINED.

08/23/2004 13:29

8579936271

AURORA OFFICE

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OVERBURDEN DRILLING MANAGEMENT LIMITED

SONIC DRILL HOLE LOG

Page 1 of 2

DATE: Aug 4 20 04HOLE NO. 1RS-04-51DIAMETER 6"ELEVATION 494m

SHIFT HOURS

LOCATION E 0503521 N 7070175GEOLOGIST F. NELSON & R. MAUMBERGDRILLER ANNIE HAK & JON CRAMPTONMOVE TO HOLE 7:30-8:00 PM ON AUG 4/04

TOTAL HOURS

MECHANICAL DOWN TIME

DRILLING PROBLEMS

CONTRACT HOURS

OTHER

CONSUMABLES

Depth (Metres)	Run No.	Rod No.	Resistance	Cone Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
1	1		MODERATE	15/15	1		01	0.0-0.10 m - SH w/ scattered clasts & organics (rock).
2					2		02	0.10-0.3 m - KLANDIXE GRAVEL -
3	2		MODERATE VERY HARD	3 1/2/3	3		03	- oxidized sandy pebble gravel w/ black chert clasts up to 3 cm; milky quartz clasts up to 6 cm.
4					4		04	0.3 m - WHITE CHANNEL GRAVEL -
5					5		05	0.3-1.5 m - dry, "finny" sand matrix w/ angular quartz clasts
6	3			3 2/3	6		06	1.5-2.0 m - silty pebble gravel; quartz clasts (50%), schist clasts (50%), clasts up to 5 cm.
7					7		07	2.0-2.7 m - sand w/ scattered pebbles; micaceous.
8					8		08	2.7-4.5 m - quartz-rich sandy pebble gravel; chunky, white; clasts up to 20 cm.
9					9		09	4.5-5 m - frozen gravel; less matrix; clasts up to 6 cm.
10	4			2 2/3	10		06	5-5.5 m - partially frozen gravel; mottled (oxide & manganese) coloration; clasts up to 4 cm; 60% quartz.
11					11		05	5.5-7.6 m - dry gravel; clasts up to 16 cm.
12					12		06	7.6-7.8 m - hard clay layer w/ scattered clasts; brown.
13					13		07	7.8-8.7 m - sandy pebble gravel, clast av. 5cm, up to 7 cm; less matrix.
14					14		08	8.7 m - clay lens w/ scattered clasts.
15	5			2 2/3	15		09	9.5-10.5 m - dry sandy pebble gravel, 90% quartz, clasts up to 8 cm.
16					16		08	10.5-12.8 m - wet silty pebble gravel; clasts R 0.6 cm, up to 16 cm.
17					17		09	12.8-12.5 m - clay lens.
18	6		MODERATE VERY HARD	4 2/3	18		09	13.5-13.8 m - granule sand pebble gravel; white; 60% quartz; 40% sand; clasts up to 7 cm, R 2 cm.
19					19			13.8-15.0 m - sand w/ scattered pebbles; manganese lenses @ 4/50 angle (to core).

COMMENTS: ANNIE HELPED A BEAD INSIDE THE SIDE OF THE CORE BARREL. THIS IMPROVED THE CORE RETENTION GREATLY; HOWEVER, RESISTANCE WAS INCREASED.

* IN RUN 5, ONLY 3m WAS RECOVERED - CORE FELL OUT ON 2ND ROD DURING EXTRACTION.

02/29/2004 13:29

8679936271

ALBERTA OFFICE

PAGE 03



OVERBURDEN DRILLING MANAGEMENT LIMITED

SONIC DRILL HOLE LOG

Page 2 of 2

DATE: Aug 4 20 04HOLE NO. 1RS-04-61 DIAMETER _____ ELEVATION _____

SHIFT HOURS

LOCATION _____

to _____

GEOLOGIST _____ DRILLER _____

TOTAL HOURS

MOVE TO HOLE _____

MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____

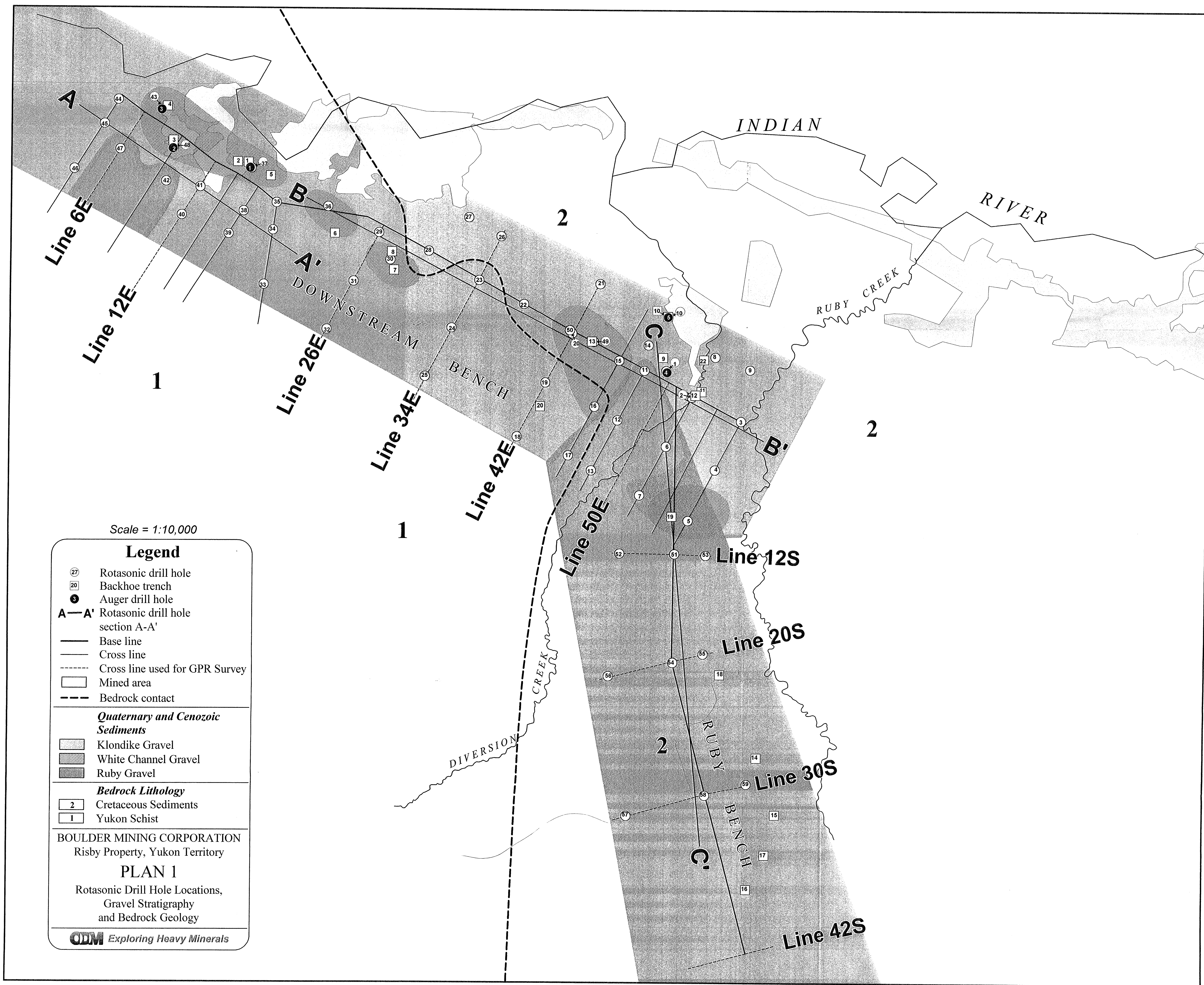
CONTRACT HOURS

OTHER _____

CONSUMABLES _____

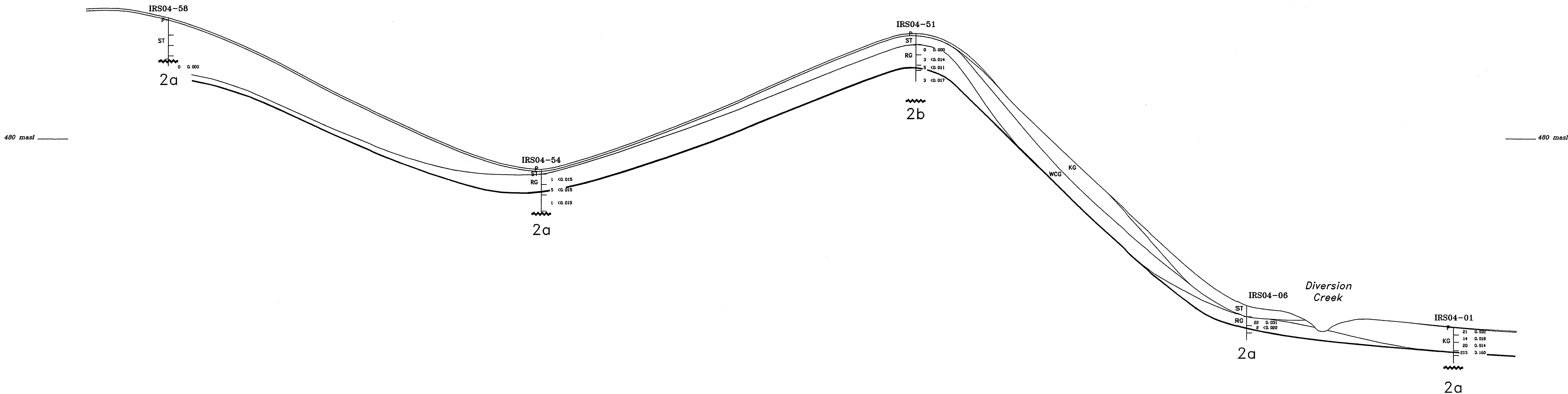
Depth (Metres)	Run No.	Rod No.	Resistance	Core Recovery (m)	Box No.	Graphic Log and Sample Interval	Sample No.	Descriptive Log
16.8	6	6			19		09	15.0-17.1m - strongly oxidized granule sand w/ occasional pebble up to 5cm, grading to a sandy pebble gravel w/ some rotten quartz clasts. Noted a grey 1/2" casing formed around outside of core.
17.2			MODERATE - VERY HARD	2.7	20		10	
18.8	7	7			21		11	17.1-18.1m - silty pebble gravel; grey.
19.4	8			1.7	22			18.1-19.5m - oxidized (brown) granule sand w/ 1mm black sand pebbles, grading to silty pebble gravel w/ mottled silty pebbles (oxidized/reduced) w/ quartz clasts up to 4cm.
20.8	9	8	VERY HARD - EXTREME	2.7	23		12	19.5-20.7m - oxidized silty pebble gravel - 70% sand / 30% quartz. Average clast 1/2 cm, up to 5 cm.
21.8					24		13	20.7-21.5m - silty pebble gravel; 8 clast 5cm clasts up to 10 cm.
7								
8								21.5m - BEDROCK
9								
10								
11								E.O.H. 21.7m
12								
13								
14								
15								

COMMENTS:



South

North



LEGEND

Quaternary and Cenozoic Sediments

- P Peat
- ST Silt
- KG Klondike Gravel
- WCG White Channel Gravel
- RG Ruby Gravel

Symbols

- Inter-sediment contact
- Drill-defined bedrock surface
- Bedrock surface interpreted from GPR survey

Geochemistry

- 24 <0.016 Klondike gravel interval with 24 gold grains and <0.016 g/t Au based on weight of recovered gold grains.
- KG

Bedrock Lithology

- 2a CRETACEOUS (Albian)
- 2a - pelite, psammite
- 2b - quartz-pebble conglomerate
- 1 PALEOZOIC
- Yukon schist

Scale
Horizontal = 1:5,000
Vertical = 1:400

BOULDER MINING CORPORATION

RISBY PROPERTY, YUKON TERRITORY

FIGURE 11

ROTASONIC DRILL SECTION C-C'

OVERBURDEN DRILLING MANAGEMENT LIMITED

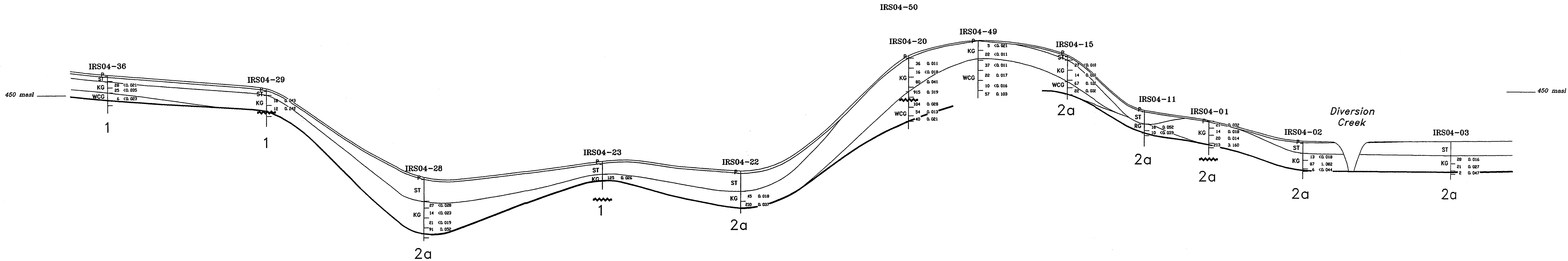
File Name: Rotasonic Holes and Sections (IRS-04, November 2004)

Prepared by: Lyle Duchene

November 28, 2004

West

East



LEGEND

Quaternary and Cenozoic Sediments

- P Peat
- ST Silt
- KG Klondike Gravel
- WCG White Channel Gravel
- RG Ruby Gravel

Symbols

- Inter-sediment contact
- Drill-defined bedrock surface
- Bedrock surface interpreted from GPR survey

Geochemistry

- 24 <0.016 Klondike gravel interval with 24 gold grains and <0.016 g/t Au based on weight of recovered gold grains.

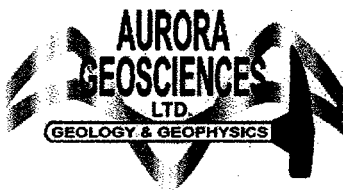
Bedrock Lithology

- CRETACEOUS (Albian)
- 2a - pelite, psammite
- 2b - quartz-pebble conglomerate
- PALEOZOIC
- Yukon schist

Scale
Horizontal = 1:5,000
Vertical = 1:400

BOULDER MINING CORPORATION
RISBY PROPERTY, YUKON TERRITORY
FIGURE 10
ROTASONIC DRILL SECTION B-B'
OVERBURDEN DRILLING MANAGEMENT LIMITED
File Name: Rotasonic Holes and Sections (IRS-04, November 2004)
Prepared by: Lyle Duchene November 26, 2004

**Appendix B – Memorandum from Aurora Geoscience on the VLF
Electromagnetic survey performed on the Indian River Gold
Project**



Whitehorse Office
108 Gold Road
Whitehorse, Yukon Y1A 3W2
Phone (867) 668-7672
Fax: (867) 393-3577

www.aurorageosciences.com
aurora@klondiker.com

MEMORANDUM

To: Nelson Baker
Boulder Mining Corporation

Date: 26 Nov 2004

From: Mike Power

Re: Indian River VLF-EM survey

This memorandum is a field report describing a VLF-EM survey performed for Boulder Mining Corporation at the Indian River Property, Dawson Mining District, Yukon. The survey was conducted to locate structures in the Indian River valley which might host lode gold deposits. The survey was conducted during the period November 11 to November 20, 2004 and covered a total of 29.3 line-km.

a. Personnel and equipment. The survey was performed by the following personnel:

Shawn Horte, C.E.T.	Geological technician / Crew chief
Casey Adshead, C.E.T.	Geophysical Technician
Calvin Delwisch	Helper

Calvin Delwisch replaced Casey Adshead on November 16 when the latter was called away by an urgent family matter. The crew was equipped with the following instruments and equipment:

<u>Instruments:</u>	2 - Geonics EM-16 VLF-EM receivers
	4 - Garmin GPS-76 GPS receivers (non-differential)

Other:

- 1 - P1.8GHz laptop computer
- 1 - colour printer
- 1 - electronic repair tools
- 1 - 2 man winter camp
- 1 - Tundra II w/ skimmer
- 1 - GMC 1 Ton 4x4
- 1 - Globalstar SAT phone

b. Survey specifications. The VLF-EM survey was conducted according to the following specifications:

<i>Station spacing:</i>	12.5 m
<i>Station marking:</i>	Stations at 50 m were marked with blue and orange flagging with the station coordinates written on the flagging.
<i>Grid registration:</i>	GPS positions were recorded every 100 m along the survey lines. The location of stations between these stations was calculated using linear interpolation based on their nominal station location.
<i>Geographic datum:</i>	NAD 1983 / UTM coordinates / Zone 7
<i>VLF stations:</i>	Cutler, Maine (24.0 KHz) - Primary (azimuth - 95°) Lualualei, Hawaii (21.4 KHz) - Secondary (azimuth - 240°)
<i>Facing directions:</i>	Operators faced north for all measurements.
<i>Levelling:</i>	Operators levelled against each other daily along a common overlapped section at least 200 m long.

c. Data processing and products. The field data is shown in the attached stacked profile plots after initial editing with no filtering or processing applied. The JPEG files are plotted at 150 dpi and fit an ANSI D size template. The digital data is included with this report in an Excel spread sheet.

d. Results. The data is of very poor quality reflecting the signal strength. In particular, Lines 3800E, 4000E and 4200E are very weak and noisy in both data sets. The line registration on L4000E and L4200E is poor and will be re-examined with the crew chief. The overlap between operators was very poor, once again reflecting the difficulty in achieving good nulls in a weak field. The operators faced north for all measurements and consequently a normal cross-over is positive to negative moving from south to north along the survey lines. There appears to be several short, discontinuous anomalies present in the data.

Respectfully submitted,
AURORA GEOSCIENCES LTD.



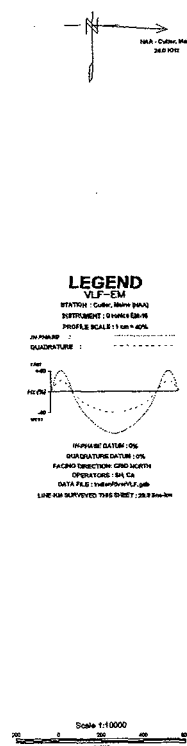
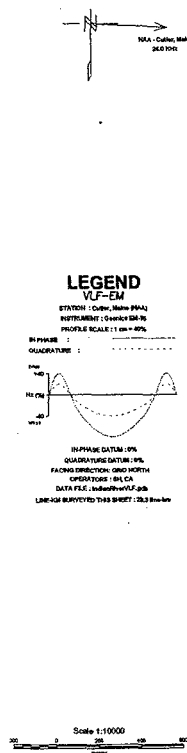
Validity
unknown

Mike Power

Digitally signed
by Mike Power
DN: cn=Mike
Power, c=US
Date:
2004.11.26
10:02:33 -08'00'

Mike Power
Geophysicist

/attach.



/Job BDR-04-002YT Indian River VLF
 /Boulder Mining Corporation
 /NTS: 115 O/11
 /Registration: NAD83 UTM Zone 7N
 /Line annotations: E-W
 /Date: 26 Nov 04

Line	Station	UTME	UTMN	NAA_IP	NAA_Q	NPM_IP	NPM_Q	Slop
2400.0	0.0	581717.8	7070489.8	5.0	-10.0	10.0	2.0	0.0
2400.0	12.5	581719.5	7070502.3	2.0	-12.0	12.0	2.0	0.0
2400.0	25.0	581721.1	7070514.8	4.0	2.0	5.0	2.0	0.0
2400.0	37.5	581722.8	7070527.3	2.0	-12.0	2.0	-2.0	0.0
2400.0	50.0	581724.5	7070539.8	3.0	30.0	6.0	2.0	-2.0
2400.0	62.5	581726.2	7070552.3	-5.0	-20.0	9.0	-4.0	-2.0
2400.0	75.0	581727.8	7070564.9	0.0	1.0	3.0	3.0	0.0
2400.0	87.5	581729.5	7070577.4	5.0	-5.0	7.0	4.0	0.0
2400.0	100.0	581731.2	7070589.9	0.0	0.0	6.0	6.0	0.0
2400.0	112.5	581734.5	7070602.9	-4.0	-4.0	10.0	2.0	0.0
2400.0	125.0	581737.8	7070615.9	0.0	-12.0	10.0	2.0	0.0
2400.0	137.5	581741.1	7070628.9	0.0	10.0	12.0	6.0	0.0
2400.0	150.0	581744.4	7070642.0	0.0	0.0	2.0	6.0	0.0
2400.0	162.5	581747.8	7070655.0	0.0	4.0	3.0	4.0	0.0
2400.0	175.0	581751.1	7070668.0	-5.0	4.0	4.0	2.0	0.0
2400.0	187.5	581754.4	7070681.0	-2.0	3.0	1.0	2.0	0.0
2400.0	200.0	581757.7	7070694.0	-2.0	-8.0	5.0	4.0	3.0
2400.0	212.5	581760.2	7070705.6	3.0	-1.0	15.0	0.0	3.0
2400.0	225.0	581762.6	7070717.2	0.0	-12.0	10.0	4.0	3.0
2400.0	237.5	581765.0	7070728.8	5.0	-1.0	4.0	8.0	3.0
2400.0	250.0	581767.5	7070740.3	5.0	8.0	1.0	4.0	3.0
2400.0	262.5	581769.9	7070751.9	1.0	-1.0	0.0	0.0	3.0
2400.0	275.0	581772.4	7070763.5	0.0	-4.0	4.0	0.0	3.0
2400.0	287.5	581774.8	7070775.0	-6.0	-2.0	-1.0	4.0	3.0
2400.0	300.0	581777.2	7070786.6	3.0	-5.0	0.0	2.0	3.0
2400.0	312.5	581778.8	7070799.2	5.0	0.0	3.0	4.0	3.0
2400.0	325.0	581780.4	7070811.7	-3.0	0.0	-2.0	6.0	3.0
2400.0	337.5	581782.0	7070824.3	3.0	-10.0	0.0	3.0	3.0
2400.0	350.0	581783.6	7070836.9	1.0	4.0	-4.0	5.0	3.0
2400.0	362.5	581785.2	7070849.4	2.0	-2.0	0.0	0.0	3.0
2400.0	375.0	581786.8	7070862.0	-8.0	-1.0	1.0	5.0	3.0
2400.0	387.5	581788.4	7070874.5	0.0	1.0	-1.0	7.0	3.0
2400.0	400.0	581789.9	7070887.1	0.0	-12.0	5.0	4.0	3.0
2400.0	412.5	581791.7	7070898.4	-2.0	-1.0	0.0	1.0	3.0
2400.0	425.0	581793.4	7070909.6	0.0	6.0	0.0	4.0	3.0
2400.0	437.5	581795.1	7070920.9	0.0	-7.0	-2.0	2.0	3.0
2400.0	450.0	581796.8	7070932.2	0.0	0.0	-1.0	6.0	3.0
2400.0	462.5	581798.6	7070943.5	-3.0	-6.0	-8.0	0.0	3.0
2400.0	475.0	581800.3	7070954.8	-5.0	-6.0	-5.0	2.0	3.0
2400.0	487.5	581802.0	7070966.0	3.0	3.0	-3.0	2.0	3.0
2400.0	500.0	581803.7	7070977.3	2.0	-10.0	0.0	0.0	3.0
2400.0	512.5	581806.0	7070988.5	-2.0	-8.0	0.0	-1.0	3.0
2400.0	525.0	581808.4	7070999.7	0.0	10.0	-4.0	2.0	3.0
2400.0	537.5	581810.7	7071010.9	3.0	0.0	0.0	2.0	3.0
2400.0	550.0	581813.0	7071022.0	4.0	9.0	-5.0	4.0	3.0
2400.0	562.5	581815.3	7071033.2	2.0	-12.0	-8.0	3.0	3.0
2400.0	575.0	581817.6	7071044.4	0.0	3.0	-4.0	4.0	3.0
2400.0	587.5	581820.0	7071055.6	-5.0	-12.0	-8.0	0.0	3.0
2400.0	600.0	581822.3	7071066.8	0.0	-4.0	-5.0	0.0	3.0
2400.0	612.5	581824.0	7071079.5	1.0	0.0	-4.0	1.0	3.0
2400.0	625.0	581825.8	7071092.3	5.0	1.0	0.0	-1.0	3.0
2400.0	637.5	581827.6	7071105.1	0.0	0.0	1.0	0.0	3.0
2400.0	650.0	581829.4	7071117.9	1.0	-10.0	-1.0	1.0	3.0

2400.0	662.5	581831.1	7071130.7	5.0	-10.0	0.0	1.0	3.0
2400.0	675.0	581832.9	7071143.5	0.0	11.0	0.0	6.0	3.0
2400.0	687.5	581834.7	7071156.3	-1.0	-4.0	2.0	4.0	3.0
2400.0	700.0	581836.4	7071169.0	0.0	12.0	2.0	-4.0	3.0
2400.0	712.5	581839.8	7071180.9	3.0	-8.0	-4.0	2.0	3.0
2400.0	725.0	581843.1	7071192.8	2.0	-8.0	-2.0	4.0	3.0
2400.0	737.5	581846.4	7071204.7	0.0	-12.0	-3.0	2.0	3.0
2400.0	750.0	581849.8	7071216.6	-3.0	-4.0	0.0	-2.0	5.0
2400.0	762.5	581853.1	7071228.5	2.0	-12.0	0.0	3.0	3.0
2400.0	775.0	581856.4	7071240.3	4.0	-4.0	-2.0	0.0	3.0
2400.0	787.5	581859.8	7071252.2	5.0	-10.0	-6.0	2.0	3.0
2400.0	800.0	581863.1	7071264.1	0.0	-10.0	-2.0	2.0	3.0
2400.0	812.5	581865.2	7071275.5	-2.0	-8.0	-2.0	0.0	3.0
2400.0	825.0	581867.4	7071286.8	-4.0	-4.0	3.0	0.0	3.0
2400.0	837.5	581869.6	7071298.1	-2.0	-10.0	3.0	-6.0	3.0
2400.0	850.0	581871.7	7071309.5	3.0	8.0	0.0	2.0	3.0
2400.0	862.5	581873.9	7071320.8	2.0	-4.0	0.0	1.0	3.0
2400.0	875.0	581876.0	7071332.2	-4.0	11.0	1.0	1.0	3.0
2400.0	887.5	581878.2	7071343.5	-5.0	8.0	-4.0	-2.0	3.0
2400.0	900.0	581880.3	7071354.8	6.0	-1.0	28.0	2.0	3.0
2400.0	912.5	581880.6	7071367.0	5.0	4.0	4.0	3.0	3.0
2400.0	925.0	581880.8	7071379.2	9.0	-2.0	25.0	0.0	3.0
2400.0	937.5	581881.0	7071391.4	5.0	-8.0	25.0	1.0	3.0
2400.0	950.0	581881.3	7071403.5	10.0	-2.0	12.0	4.0	3.0
2400.0	962.5	581881.5	7071415.7	18.0	-8.0	4.0	4.0	3.0
2400.0	975.0	581881.8	7071427.9	10.0	-12.0	-2.0	4.0	3.0
2400.0	987.5	581882.0	7071440.1	-4.0	2.0	-2.0	4.0	3.0
2400.0	1000.0	581882.2	7071452.3	-6.0	4.0	10.0	-2.0	3.0
2400.0	1012.5	581885.1	7071463.5	-5.0	-10.0	2.0	-2.0	8.0
2400.0	1025.0	581888.0	7071474.8	-6.0	-1.0	8.0	1.0	8.0
2400.0	1037.5	581890.9	7071486.1	-4.0	-8.0	5.0	0.0	8.0
2400.0	1050.0	581893.8	7071497.4	2.0	-8.0	5.0	0.0	3.0
2400.0	1062.5	581896.7	7071508.7	8.0	8.0	4.0	-2.0	3.0
2400.0	1075.0	581899.6	7071519.9	1.0	-10.0	37.0	-10.0	3.0
2400.0	1087.5	581902.6	7071531.2	0.0	-10.0	20.0	-2.0	3.0
2400.0	1100.0	581905.5	7071542.5	-1.0	-8.0	-1.0	-4.0	3.0
2400.0	1112.5	581907.3	7071554.3	2.0	-4.0	-2.0	0.0	3.0
2400.0	1125.0	581909.1	7071566.0	1.0	-12.0	0.0	4.0	3.0
2400.0	1137.5	581910.9	7071577.8	4.0	-12.0	0.0	0.0	3.0
2400.0	1150.0	581912.8	7071589.5	3.0	-1.0	-4.0	2.0	3.0
2400.0	1162.5	581914.6	7071601.3	6.0	-10.0	-2.0	0.0	3.0
2400.0	1175.0	581916.4	7071613.0	8.0	-4.0	-5.0	4.0	3.0
2400.0	1187.5	581918.2	7071624.8	6.0	-2.0	0.0	1.0	3.0
2400.0	1200.0	581920.1	7071636.5	1.0	8.0	-2.0	-1.0	3.0
2400.0	1212.5	581923.0	7071648.1	3.0	-2.0	-5.0	-1.0	3.0
2400.0	1225.0	581926.0	7071659.8	4.0	4.0	-7.0	-1.0	3.0
2400.0	1237.5	581928.9	7071671.4	-2.0	-13.0	-6.0	4.0	3.0
2400.0	1250.0	581931.9	7071683.1	5.0	-12.0	-2.0	-1.0	3.0
2400.0	1262.5	581934.8	7071694.7	2.0	3.0	-5.0	-2.0	3.0
2400.0	1275.0	581937.8	7071706.4	6.0	-8.0	-4.0	0.0	3.0
2400.0	1287.5	581940.7	7071718.0	-1.0	-10.0	-4.0	-1.0	3.0
2400.0	1300.0	581943.7	7071729.7	0.0	-10.0	-1.0	4.0	3.0
2400.0	1312.5	581946.3	7071740.9	-4.0	-10.0	-7.0	1.0	3.0
2400.0	1325.0	581948.9	7071752.2	-13.0	-2.0	-8.0	2.0	3.0
2400.0	1337.5	581951.5	7071763.5	-10.0	-10.0	-10.0	0.0	3.0
2400.0	1350.0	581954.1	7071774.7	-12.0	-10.0	-10.0	-2.0	0.0
2400.0	1362.5	581956.8	7071786.0	-1.0	-12.0	-7.0	4.0	25.0
2400.0	1375.0	581959.4	7071797.2	-4.0	-4.0	-6.0	-3.0	60.0
2400.0	1387.5	581962.0	7071808.5	0.0	-6.0	-5.0	5.0	62.0
2400.0	1400.0	581964.6	7071819.8	-2.0	6.0	0.0	-4.0	72.0

2400.0	1412.5	581964.5	7071830.7	-2.0	4.0	0.0	6.0	60.0
2400.0	1425.0	581964.4	7071841.7	0.0	-12.0	-2.0	2.0	25.0
2400.0	1437.5	581964.2	7071852.6	0.0	-12.0	-2.0	2.0	3.0
2400.0	1450.0	581964.1	7071863.5	0.0	-6.0	-5.0	4.0	15.0
2400.0	1462.5	581964.0	7071874.5	0.0	4.0	-4.0	-1.0	32.0
2400.0	1475.0	581963.9	7071885.4	1.0	-12.0	-7.0	-2.0	0.0
2400.0	1487.5	581963.8	7071896.4	-2.0	-8.0	-8.0	-2.0	-14.
2400.0	1500.0	581963.6	7071907.3	0.0	-8.0	-2.0	3.0	5.0
2400.0	1512.5	581969.4	7071919.2	2.0	-4.0	1.0	1.0	0.0
2400.0	1525.0	581975.1	7071931.0	0.0	-1.0	-2.0	1.0	1.0
2400.0	1537.5	581980.9	7071942.9	6.0	-12.0	-3.0	-3.0	0.0
2400.0	1550.0	581982.5	7071954.7					
2400.0	1562.5	581984.1	7071966.6					
2400.0	1575.0	581985.6	7071978.5	5.0	-12.0	0.0	-4.0	15.0
2400.0	1587.5	581990.2	7071989.0	3.0	5.0	1.0	0.0	-12.
2400.0	1600.0	581994.8	7071999.5	8.0	-8.0	2.0	0.0	7.0
2400.0	1612.5	581996.6	7072011.8	5.0	-8.0	7.0	-1.0	3.0
2400.0	1625.0	581998.4	7072024.1	-4.0	-10.0	1.0	-8.0	3.0
2400.0	1637.5	582000.1	7072036.4	5.0	-4.0	0.0	-4.0	0.0
2400.0	1650.0	582001.9	7072048.7	10.0	1.0	3.0	-3.0	0.0
2400.0	1662.5	582003.7	7072061.0	15.0	-8.0	-1.0	-6.0	3.0
2400.0	1675.0	582005.4	7072073.3	10.0	-6.0	4.0	-4.0	-5.0
2400.0	1687.5	582007.2	7072085.6	15.0	0.0	9.0	-2.0	5.0
2400.0	1700.0	582009.0	7072097.9	30.0	-4.0	6.0	-4.0	-3.0
2400.0	1712.5	582010.2	7072110.0	4.0	-4.0	13.0	-2.0	-15.
2400.0	1725.0	582011.5	7072122.1	8.0	-6.0	5.0	1.0	-20.
2400.0	1737.5	582012.8	7072134.1	5.0	-12.0	15.0	-1.0	-12.
2400.0	1750.0	582014.1	7072146.2	13.0	-8.0	12.0	-4.0	8.0
2400.0	1762.5	582015.4	7072158.2	4.0	1.0	7.0	-3.0	10.0
2400.0	1775.0	582016.6	7072170.3	2.0	-1.0	8.0	-2.0	-35.
2400.0	1787.5	582017.9	7072182.3	0.0	-4.0	6.0	-2.0	30.0
2400.0	1800.0	582019.2	7072194.4	-4.0	-3.0	1.0	0.0	15.0
2400.0	1812.5	582022.5	7072206.7	15.0	6.0	2.0	1.0	20.0
2400.0	1825.0	582025.9	7072219.0	10.0	8.0	-2.0	0.0	0.0
2400.0	1837.5	582029.2	7072231.3	2.0	-10.0	4.0	0.0	0.0
2400.0	1850.0	582032.5	7072243.6	5.0	-22.0	3.0	1.0	0.0
2400.0	1862.5	582035.8	7072255.9	9.0	-14.0	8.0	2.0	0.0
2400.0	1875.0	582039.1	7072268.2	5.0	-6.0	6.0	4.0	0.0
2400.0	1887.5	582042.5	7072280.5	6.0	-8.0	8.0	0.0	0.0
2400.0	1900.0	582045.8	7072292.8	2.0	-8.0	2.0	4.0	0.0
2400.0	1912.5	582047.8	7072305.5	4.0	1.0	2.0	-2.0	0.0
2400.0	1925.0	582049.9	7072318.2	0.0	0.0	3.0	6.0	0.0
2400.0	1937.5	582051.9	7072330.9	2.0	2.0	2.0	4.0	0.0
2400.0	1950.0	582054.0	7072343.6	2.0	2.0	-1.0	1.0	0.0
2400.0	1962.5	582056.0	7072356.3	-4.0	-4.0	-7.0	4.0	0.0
2400.0	1975.0	582058.1	7072369.0	4.0	0.0	-12.0	5.0	0.0
2400.0	1987.5	582060.1	7072381.7	2.0	-4.0	-5.0	-4.0	0.0
2400.0	2000.0	582062.2	7072394.4	5.0	7.0	4.0	3.0	-5.0
2400.0	2012.5	582064.1	7072407.0	12.0	22.0	3.0	2.0	-17.
2400.0	2025.0	582066.0	7072419.5	8.0	2.0	4.0	4.0	-6.0
2400.0	2037.5	582067.9	7072432.1	0.0	19.0	0.0	4.0	34.0
2400.0	2050.0	582069.8	7072444.7	0.0	12.0	6.0	7.0	0.0
2400.0	2062.5	582071.7	7072457.3	28.0	12.0	6.0	6.0	0.0
2400.0	2075.0	582073.6	7072469.8	34.0	-12.0	5.0	8.0	0.0
2400.0	2087.5	582075.5	7072482.4	15.0	-18.0	2.0	4.0	5.0
2400.0	2100.0	582077.4	7072495.0	12.0	0.0	-8.0	3.0	-35.
2400.0	2112.5	582079.3	7072507.5	11.0	0.0	-3.0	2.0	0.0
2600.0	0.0	581919.1	7070491.7	-8.0	3.0	15.0	-3.0	0.0
2600.0	12.5	581923.1	7070503.3	-10.0	-2.0	10.0	-7.0	3.0
2600.0	25.0	581927.1	7070514.9	-10.0	-5.0	14.0	-8.0	3.0

2600.0	37.5	581931.1	7070526.5	-15.0	-8.0	10.0	-1.0	3.0
2600.0	50.0	581935.1	7070538.1	-15.0	-2.0	5.0	-6.0	3.0
2600.0	62.5	581939.1	7070549.7	-13.0	-8.0	15.0	-9.0	3.0
2600.0	75.0	581943.1	7070561.3	-20.0	-13.0	18.0	-2.0	3.0
2600.0	87.5	581947.1	7070572.8	-12.0	-8.0	11.0	-7.0	3.0
2600.0	100.0	581951.1	7070584.4	-15.0	-9.0	18.0	-4.0	3.0
2600.0	112.5	581952.7	7070596.7	-15.0	-4.0	15.0	-6.0	3.0
2600.0	125.0	581954.3	7070608.9	-20.0	-9.0	23.0	-5.0	0.0
2600.0	137.5	581956.0	7070621.1	-20.0	-4.0	20.0	0.0	2.0
2600.0	150.0	581957.6	7070633.3	-17.0	-8.0	17.0	-6.0	0.0
2600.0	162.5	581959.3	7070645.6	-15.0	-11.0	12.0	-10.0	0.0
2600.0	175.0	581960.9	7070657.8	-14.0	-6.0	15.0	-4.0	0.0
2600.0	187.5	581962.5	7070670.0	-10.0	-8.0	15.0	-3.0	0.0
2600.0	200.0	581964.2	7070682.3	-15.0	-5.0	15.0	-2.0	0.0
2600.0	212.5	581965.8	7070695.0	-12.0	-8.0	18.0	0.0	0.0
2600.0	225.0	581967.4	7070707.8	-13.0	-1.0	21.0	-8.0	0.0
2600.0	237.5	581969.1	7070720.6	-12.0	-3.0	20.0	-3.0	0.0
2600.0	250.0	581970.7	7070733.4	-13.0	-10.0	20.0	1.0	6.0
2600.0	262.5	581972.3	7070746.2	-12.0	-9.0	23.0	2.0	0.0
2600.0	275.0	581974.0	7070759.0	-12.0	-7.0	20.0	-3.0	0.0
2600.0	287.5	581975.6	7070771.8	-5.0	-9.0	25.0	-4.0	0.0
2600.0	300.0	581977.2	7070784.5	-9.0	-4.0	16.0	-6.0	0.0
2600.0	312.5	581980.0	7070796.5	-15.0	-6.0	13.0	-2.0	0.0
2600.0	325.0	581982.7	7070808.4	-12.0	5.0	12.0	8.0	0.0
2600.0	337.5	581985.5	7070820.3	-15.0	-8.0	6.0	8.0	0.0
2600.0	350.0	581988.2	7070832.2	-8.0	-13.0	-15.0	-2.0	0.0
2600.0	362.5	581991.0	7070844.1	-5.0	-2.0	12.0	-3.0	0.0
2600.0	375.0	581993.7	7070856.0	-6.0	-4.0	8.0	-2.0	0.0
2600.0	387.5	581996.4	7070867.9	-10.0	-3.0	3.0	3.0	0.0
2600.0	400.0	581999.2	7070879.8	-10.0	-1.0	5.0	-2.0	5.0
2600.0	412.5	582003.7	7070892.5	-15.0	-8.0	10.0	2.0	2.0
2600.0	425.0	582008.1	7070905.2	-15.0	0.0	2.0	-2.0	2.0
2600.0	437.5	582012.6	7070918.0	-15.0	-2.0	-1.0	1.0	2.0
2600.0	450.0	582017.1	7070930.7	-15.0	-9.0	0.0	2.0	7.0
2600.0	462.5	582021.6	7070943.4	-10.0	-3.0	0.0	5.0	3.0
2600.0	475.0	582026.1	7070956.1	-10.0	-2.0	-4.0	-4.0	2.0
2600.0	487.5	582030.6	7070968.9	-10.0	-3.0	-3.0	-3.0	0.0
2600.0	500.0	582035.0	7070981.6	-5.0	0.0	-5.0	11.0	0.0
2600.0	512.5	582033.7	7070993.7	-5.0	-3.0	0.0	0.0	0.0
2600.0	525.0	582032.4	7071005.7	-5.0	-7.0	0.0	-2.0	0.0
2600.0	537.5	582031.0	7071017.8	-5.0	-3.0	-5.0	1.0	0.0
2600.0	550.0	582029.7	7071029.9	-10.0	-2.0	13.0	-2.0	3.0
2600.0	562.5	582028.3	7071041.9	-4.0	-3.0	-2.0	0.0	4.0
2600.0	575.0	582027.0	7071054.0	-4.0	-2.0	-7.0	-1.0	4.0
2600.0	587.5	582025.7	7071066.1	-7.0	2.0	0.0	2.0	5.0
2600.0	600.0	582024.3	7071078.1	-4.0	-4.0	0.0	6.0	10.0
2600.0	612.5	582025.4	7071090.4	-5.0	-1.0	-3.0	2.0	0.0
2600.0	625.0	582026.4	7071102.6	-12.0	-1.0	0.0	-2.0	0.0
2600.0	637.5	582027.5	7071114.8	-10.0	-3.0	-5.0	1.0	0.0
2600.0	650.0	582028.5	7071127.0	-5.0	-3.0	-2.0	-1.0	0.0
2600.0	662.5	582029.6	7071139.3	-5.0	-2.0	-4.0	-7.0	0.0
2600.0	675.0	582030.6	7071151.5	-6.0	-1.0	-3.0	8.0	0.0
2600.0	687.5	582031.7	7071163.7	-10.0	-4.0	0.0	6.0	0.0
2600.0	700.0	582032.8	7071175.9	-5.0	-8.0	-2.0	5.0	0.0
2600.0	712.5	582036.2	7071187.7	-11.0	3.0	0.0	7.0	0.0
2600.0	725.0	582039.6	7071199.5	-15.0	-7.0	0.0	0.0	0.0
2600.0	737.5	582043.0	7071211.3	-8.0	-6.0	-2.0	4.0	0.0
2600.0	750.0	582046.4	7071223.0	-9.0	-3.0	-4.0	5.0	3.0
2600.0	762.5	582049.8	7071234.8	-10.0	-3.0	-5.0	4.0	2.0
2600.0	775.0	582053.2	7071246.6	-5.0	-7.0	-2.0	4.0	2.0

2600.0	787.5	582056.6	7071258.4	-5.0	0.0	-4.0	3.0	3.0
2600.0	800.0	582060.0	7071270.2	-4.0	4.0	-5.0	2.0	0.0
2600.0	812.5	582065.9	7071281.1	-9.0	0.0	-5.0	3.0	0.0
2600.0	825.0	582071.9	7071292.1	-5.0	2.0	-3.0	-2.0	0.0
2600.0	837.5	582077.8	7071303.0	-4.0	-4.0	-7.0	2.0	0.0
2600.0	850.0	582083.7	7071314.0	-5.0	1.0	-5.0	2.0	0.0
2600.0	862.5	582089.7	7071324.9	4.0	0.0	-8.0	2.0	0.0
2600.0	875.0	582095.6	7071335.9	-1.0	2.0	-6.0	-2.0	0.0
2600.0	887.5	582101.6	7071346.8	-5.0	-10.0	-3.0	1.0	0.0
2600.0	900.0	582107.5	7071357.8	0.0	-10.0	-7.0	-3.0	0.0
2600.0	912.5	582108.4	7071370.5	-3.0	-4.0	-5.0	-1.0	0.0
2600.0	925.0	582109.3	7071383.3	-3.0	-2.0	-5.0	2.0	2.0
2600.0	937.5	582110.3	7071396.1	-1.0	-3.0	-10.0	-2.0	0.0
2600.0	950.0	582111.2	7071408.8	-5.0	-6.0	-5.0	0.0	0.0
2600.0	962.5	582112.1	7071421.6	-6.0	-1.0	-6.0	0.0	0.0
2600.0	975.0	582113.0	7071434.3	-5.0	-6.0	-7.0	2.0	0.0
2600.0	987.5	582113.9	7071447.1	-4.0	-3.0	-5.0	5.0	0.0
2600.0	1000.0	582114.9	7071459.9	2.0	-4.0	-10.0	0.0	10.0
2600.0	1012.5	582116.8	7071471.2	0.0	-5.0	-8.0	-2.0	4.0
2600.0	1025.0	582118.6	7071482.6	0.0	-6.0	-10.0	-2.0	-2.0
2600.0	1037.5	582120.5	7071493.9	-2.0	-2.0	-9.0	-3.0	5.0
2600.0	1050.0	582122.4	7071505.3	-4.0	-10.0	-5.0	-3.0	5.0
2600.0	1062.5	582124.3	7071516.6	-4.0	-7.0	-3.0	-2.0	4.0
2600.0	1075.0	582126.2	7071527.9	0.0	-5.0	-5.0	5.0	5.0
2600.0	1087.5	582128.1	7071539.3	-4.0	-2.0	-2.0	4.0	3.0
2600.0	1100.0	582130.0	7071550.6	-3.0	-4.0	0.0	1.0	2.0
2600.0	1112.5	582134.3	7071562.4	-3.0	-5.0	-5.0	-1.0	2.0
2600.0	1125.0	582138.5	7071574.3	-2.0	-3.0	-2.0	2.0	2.0
2600.0	1137.5	582142.8	7071586.1	-2.0	-6.0	-4.0	-1.0	2.0
2600.0	1150.0	582147.0	7071597.9	0.0	-5.0	-5.0	-5.0	2.0
2600.0	1162.5	582151.3	7071609.7	0.0	-8.0	-3.0	-3.0	3.0
2600.0	1175.0	582155.5	7071621.5	3.0	-10.0	-4.0	-2.0	3.0
2600.0	1187.5	582159.8	7071633.3	3.0	-8.0	-5.0	-5.0	4.0
2600.0	1200.0	582164.0	7071645.2	0.0	0.0	-3.0	-2.0	5.0
2600.0	1212.5	582168.5	7071656.0	5.0	-5.0	5.0	-5.0	5.0
2600.0	1225.0	582173.0	7071666.9	-4.0	2.0	4.0	-6.0	0.0
2600.0	1237.5	582177.6	7071677.8	3.0	-3.0	-1.0	-3.0	2.0
2600.0	1250.0	582182.1	7071688.7	-4.0	-6.0	-3.0	-4.0	3.0
2600.0	1262.5	582186.6	7071699.6	0.0	-5.0	0.0	-6.0	3.0
2600.0	1275.0	582191.1	7071710.5	-5.0	-10.0	0.0	0.0	3.0
2600.0	1287.5	582195.6	7071721.4	-15.0	-6.0	7.0	-3.0	5.0
2600.0	1300.0	582200.1	7071732.3	-22.0	5.0	-10.0	-2.0	3.0
2600.0	1312.5	582202.2	7071744.1	-30.0	-2.0	15.0	-1.0	5.0
2600.0	1325.0	582204.3	7071755.9	-22.0	-15.0	13.0	3.0	55.0
2600.0	1337.5	582206.4	7071767.7	-20.0	-10.0	15.0	-2.0	5.0
2600.0	1350.0	582208.5	7071779.5	-15.0	-2.0	10.0	-6.0	0.0
2600.0	1362.5	582210.6	7071791.3	-5.0	0.0	12.0	0.0	-25.
2600.0	1375.0	582212.7	7071803.1	-10.0	-1.0	-10.0	1.0	-5.0
2600.0	1387.5	582214.8	7071814.9	-10.0	-2.0	-3.0	-2.0	5.0
2600.0	1400.0	582216.9	7071826.7	-5.0	-4.0	-5.0	-6.0	0.0
2600.0	1412.5	582216.1	7071838.6	-10.0	-9.0	-8.0	-3.0	0.0
2600.0	1425.0	582215.4	7071850.5	2.0	-8.0	-7.0	-1.0	15.0
2600.0	1437.5	582214.6	7071862.3	-10.0	-4.0	-7.0	-4.0	25.0
2600.0	1450.0	582213.8	7071874.2	-5.0	-2.0	-10.0	-7.0	15.0
2600.0	1462.5	582213.0	7071886.1	-10.0	-2.0	-9.0	-4.0	-25.
2600.0	1475.0	582212.3	7071898.0	-7.0	8.0	-13.0	-6.0	-20.
2600.0	1487.5	582211.5	7071909.9	-8.0	0.0	-7.0	-4.0	15.0
2600.0	1500.0	582210.7	7071921.7	-6.0	2.0	-8.0	-10.0	20.0
2600.0	1512.5	582212.5	7071934.1	-5.0	-10.0	-5.0	-6.0	40.0
2600.0	1525.0	582214.3	7071946.5	-15.0	2.0	-7.0	-8.0	20.0

2600.0	1537.5	582216.0	7071958.9	0.0	-6.0	0.0	-8.0	40.0
2600.0	1550.0	582217.8	7071971.3	-5.0	-9.0	-12.0	-1.0	25.0
2600.0	1562.5	582219.5	7071983.7	0.0	-12.0	-10.0	4.0	0.0
2600.0	1575.0	582221.3	7071996.2	-2.0	-6.0	5.0	-6.0	0.0
2600.0	1587.5	582223.1	7072008.6	0.0	2.0	0.0	2.0	0.0
2600.0	1600.0	582224.8	7072021.0	3.0	-12.0	-5.0	-8.0	0.0
2600.0	1612.5	582226.2	7072033.7	0.0	-2.0	-5.0	-2.0	0.0
2600.0	1625.0	582227.6	7072046.5	0.0	-3.0	-10.0	-5.0	-5.0
2600.0	1637.5	582229.0	7072059.2	0.0	-4.0	-9.0	-8.0	0.0
2600.0	1650.0	582230.4	7072072.0	5.0	-2.0	-7.0	-5.0	10.0
2600.0	1662.5	582231.8	7072084.7	2.0	-3.0	-4.0	-2.0	0.0
2600.0	1675.0	582233.2	7072097.5	-2.0	-8.0	-1.0	0.0	0.0
2600.0	1687.5	582234.6	7072110.2	-3.0	-8.0	-5.0	2.0	-10.
2600.0	1700.0	582235.9	7072123.0	-7.0	-4.0	-2.0	-1.0	-30.
2600.0	1712.5	582237.0	7072134.8	-2.0	-5.0	-5.0	-3.0	3.0
2600.0	1725.0	582238.1	7072146.6	0.0	-11.0	-14.0	-2.0	5.0
2600.0	1737.5	582239.2	7072158.5	-2.0	-4.0	-15.0	-5.0	10.0
2600.0	1750.0	582240.3	7072170.3	0.0	-5.0	-5.0	2.0	0.0
2600.0	1762.5	582241.4	7072182.2	-5.0	-7.0	2.0	8.0	0.0
2600.0	1775.0	582242.5	7072194.0	-6.0	-10.0	-1.0	2.0	0.0
2600.0	1787.5	582243.6	7072205.9	-7.0	-7.0	-3.0	3.0	0.0
2600.0	1800.0	582244.7	7072217.7	-5.0	-5.0	-5.0	1.0	0.0
2600.0	1812.5	582246.8	7072230.8	-10.0	-6.0	-3.0	-1.0	0.0
2600.0	1825.0	582248.9	7072243.9	-10.0	-10.0	-2.0	-2.0	5.0
2600.0	1837.5	582251.0	7072257.0	0.0	-1.0	-2.0	0.0	0.0
2600.0	1850.0	582253.1	7072270.0	0.0	0.0	0.0	-2.0	0.0
2600.0	1862.5	582255.3	7072283.1	0.0	-4.0	-4.0	-1.0	-50.
2600.0	1875.0	582257.4	7072296.2	5.0	-7.0	-6.0	1.0	0.0
2600.0	1887.5	582259.5	7072309.3	-4.0	-10.0	-6.0	-2.0	25.0
2600.0	1900.0	582261.6	7072322.3	-5.0	0.0	-5.0	1.0	0.0
2600.0	1912.5	582263.8	7072335.0	3.0	-3.0	-5.0	-1.0	0.0
2600.0	1925.0	582265.9	7072347.7	-3.0	-3.0	-8.0	-2.0	0.0
2600.0	1937.5	582268.1	7072360.4	0.0	-1.0	-10.0	-1.0	0.0
2600.0	1950.0	582270.2	7072373.1	0.0	-3.0	-7.0	0.0	0.0
2600.0	1962.5	582272.3	7072385.8	-5.0	-2.0	-5.0	-3.0	0.0
2600.0	1975.0	582274.5	7072398.5	-5.0	-8.0	-5.0	-2.0	0.0
2600.0	1987.5	582276.6	7072411.2	-5.0	-14.0	0.0	2.0	0.0
2600.0	2000.0	582278.8	7072423.8	-5.0	-14.0	5.0	4.0	0.0
2600.0	2012.5	582279.4	7072435.3	0.0	-6.0	2.0	3.0	0.0
2600.0	2025.0	582280.0	7072446.8	-5.0	-7.0	0.0	4.0	0.0
2600.0	2037.5	582280.6	7072458.3	-2.0	-4.0	0.0	2.0	0.0
2600.0	2050.0	582281.2	7072469.8	0.0	-8.0	0.0	0.0	0.0
2600.0	2062.5	582281.8	7072481.3	-5.0	-8.0	3.0	-4.0	0.0
2600.0	2075.0	582282.3	7072492.8	-6.0	0.0	0.0	2.0	-20.
2600.0	2087.5	582282.9	7072504.3	-7.0	-4.0	0.0	-3.0	-35.
2600.0	2100.0	582283.5	7072515.8	-7.0	-5.0	5.0	-2.0	0.0
2600.0	2112.5	582285.1	7072529.5	-8.0	-1.0	5.0	-4.0	35.0
2600.0	2125.0	582286.6	7072543.1	-10.0	-2.0	5.0	-2.0	5.0
2600.0	2137.5	582288.1	7072556.8	-15.0	-4.0	7.0	2.0	-45.
2600.0	2150.0	582289.7	7072570.5	-10.0	14.0	10.0	4.0	0.0
2800.0	0.0	582111.0	7070417.0	10.0	-22.0	4.0	0.0	0.0
2800.0	12.5	582111.7	7070428.6	3.0	-26.0	5.0	-1.0	3.0
2800.0	25.0	582112.4	7070440.2	0.0	0.0	8.0	0.0	10.0
2800.0	37.5	582113.1	7070451.7	8.0	-10.0	3.0	-4.0	0.0
2800.0	50.0	582113.8	7070463.3	10.0	-22.0	5.0	3.0	0.0
2800.0	62.5	582114.5	7070474.9	10.0	-6.0	8.0	-3.0	-3.0
2800.0	75.0	582115.2	7070486.5	2.0	-8.0	3.0	-2.0	-3.0
2800.0	87.5	582115.9	7070498.1	0.0	-6.0	3.0	-7.0	-8.0
2800.0	100.0	582116.6	7070509.7	-5.0	-9.0	8.0	4.0	-8.0
2800.0	112.5	582119.9	7070521.1	-5.0	-6.0	3.0	-1.0	-10.

2800.0	125.0	582123.2	7070532.4	0.0	2.0	0.0	3.0	-10.0
2800.0	137.5	582126.5	7070543.8	20.0	2.0	2.0	2.0	-5.0
2800.0	150.0	582129.8	7070555.2	-5.0	-10.0	1.0	4.0	-5.0
2800.0	162.5	582133.1	7070566.6	0.0	2.0	-5.0	0.0	-5.0
2800.0	175.0	582136.4	7070578.0	0.0	6.0	-8.0	2.0	-5.0
2800.0	187.5	582139.8	7070589.4	-3.0	-22.0	-6.0	3.0	-5.0
2800.0	200.0	582143.1	7070600.8	-28.0	-34.0	-4.0	-2.0	-3.0
2800.0	212.5	582144.8	7070613.1	-26.0	-16.0	-9.0	2.0	-3.0
2800.0	225.0	582146.5	7070625.5	-10.0	-2.0	-6.0	1.0	-3.0
2800.0	237.5	582148.3	7070637.8	-18.0	-8.0	-5.0	1.0	-3.0
2800.0	250.0	582150.0	7070650.2	-18.0	-20.0	-2.0	3.0	-3.0
2800.0	262.5	582151.7	7070662.5	-6.0	-12.0	-2.0	3.0	-3.0
2800.0	275.0	582153.5	7070674.8	0.0	-18.0	-4.0	2.0	-3.0
2800.0	287.5	582155.2	7070687.2	-1.0	-18.0	-5.0	6.0	-3.0
2800.0	300.0	582156.9	7070699.5	0.0	-10.0	0.0	-6.0	0.0
2800.0	312.5	582158.4	7070707.7	-3.0	-10.0	12.0	2.0	0.0
2800.0	325.0	582159.8	7070715.9	32.0	40.0	32.0	-10.0	0.0
2800.0	337.5	582161.3	7070724.0	-10.0	-6.0	15.0	-8.0	0.0
2800.0	350.0	582162.7	7070732.2	35.0	-18.0	25.0	-9.0	-2.0
2800.0	362.5	582164.1	7070740.4	25.0	-38.0	2.0	1.0	-2.0
2800.0	375.0	582165.6	7070748.6	13.0	11.0	-5.0	1.0	-2.0
2800.0	387.5	582167.0	7070756.8	-5.0	-22.0	-5.0	2.0	-2.0
2800.0	400.0	582168.5	7070765.0	5.0	-20.0	-3.0	0.0	-3.0
2800.0	412.5	582170.7	7070777.7	20.0	9.0	0.0	-1.0	-3.0
2800.0	425.0	582173.0	7070790.5	18.0	-18.0	3.0	4.0	-3.0
2800.0	437.5	582175.3	7070803.3	35.0	-18.0	8.0	3.0	0.0
2800.0	450.0	582177.5	7070816.0	26.0	-8.0	0.0	-1.0	-3.0
2800.0	462.5	582179.8	7070828.8	15.0	-20.0	0.0	2.0	-3.0
2800.0	475.0	582182.1	7070841.6	23.0	-20.0	2.0	0.0	-3.0
2800.0	487.5	582184.3	7070854.4	5.0	40.0	-2.0	1.0	0.0
2800.0	500.0	582186.6	7070867.1	5.0	-20.0	-1.0	1.0	-2.0
2800.0	512.5	582188.4	7070879.1	-5.0	12.0	-2.0	4.0	-3.0
2800.0	525.0	582190.2	7070891.0	15.0	13.0	-1.0	1.0	-3.0
2800.0	537.5	582192.0	7070903.0	10.0	0.0	0.0	3.0	-3.0
2800.0	550.0	582193.8	7070914.9	-5.0	-2.0	-1.0	1.0	-3.0
2800.0	562.5	582195.6	7070926.9	-2.0	-12.0	-2.0	-2.0	-3.0
2800.0	575.0	582197.4	7070938.8	2.0	-8.0	1.0	-1.0	-3.0
2800.0	587.5	582199.2	7070950.7	0.0	34.0	0.0	0.0	-3.0
2800.0	600.0	582200.9	7070962.7	-3.0	-14.0	-18.0	1.0	0.0
2800.0	612.5	582203.1	7070974.8	40.0	-22.0	8.0	-3.0	0.0
2800.0	625.0	582205.3	7070986.9	50.0	32.0	3.0	-4.0	0.0
2800.0	637.5	582207.5	7070999.0	12.0	-25.0	1.0	-1.0	-2.0
2800.0	650.0	582209.6	7071011.1	5.0	-28.0	-1.0	0.0	-2.0
2800.0	662.5	582211.8	7071023.2	0.0	-14.0	4.0	3.0	-2.0
2800.0	675.0	582214.0	7071035.3	-7.0	8.0	1.0	0.0	-2.0
2800.0	687.5	582216.2	7071047.4	25.0	-4.0	-2.0	1.0	-2.0
2800.0	700.0	582218.3	7071059.5	2.0	-3.0	-3.0	1.0	-2.0
2800.0	712.5	582220.8	7071071.3	0.0	-7.0	-5.0	3.0	-2.0
2800.0	725.0	582223.3	7071083.2	0.0	-20.0	-3.0	4.0	-2.0
2800.0	737.5	582225.8	7071095.0	-9.0	-18.0	-8.0	1.0	-2.0
2800.0	750.0	582228.3	7071106.8	-7.0	-30.0	-12.0	-4.0	-2.0
2800.0	762.5	582230.7	7071118.7	5.0	-10.0	-12.0	5.0	-2.0
2800.0	775.0	582233.2	7071130.5	10.0	14.0	13.0	3.0	-2.0
2800.0	787.5	582235.7	7071142.4	-10.0	0.0	-6.0	1.0	-2.0
2800.0	800.0	582238.2	7071154.2	-15.0	-11.0	-11.0	6.0	-2.0
2800.0	812.5	582240.2	7071166.3	-14.0	-14.0	-10.0	1.0	-3.0
2800.0	825.0	582242.3	7071178.4	-5.0	-21.0	-8.0	1.0	-2.0
2800.0	837.5	582244.4	7071190.6	-1.0	-14.0	-14.0	4.0	-2.0
2800.0	850.0	582246.5	7071202.7	0.0	-8.0	-9.0	-2.0	-2.0
2800.0	862.5	582248.5	7071214.8	0.0	-4.0	-10.0	3.0	-2.0

2800.0	875.0	582250.6	7071226.9	-3.0	-20.0	-7.0	2.0	-2.0
2800.0	887.5	582252.7	7071239.0	4.0	-44.0	-4.0	4.0	-2.0
2800.0	900.0	582254.8	7071251.1	0.0	-44.0	-4.0	1.0	-2.0
2800.0	912.5	582256.8	7071262.7	3.0	-38.0	-18.0	1.0	-2.0
2800.0	925.0	582258.9	7071274.3	10.0	-10.0	-7.0	-1.0	-2.0
2800.0	937.5	582260.9	7071286.0	5.0	1.0	-4.0	4.0	-2.0
2800.0	950.0	582263.0	7071297.6	15.0	6.0	-5.0	3.0	-2.0
2800.0	962.5	582265.0	7071309.2	8.0	-8.0	-3.0	-1.0	-2.0
2800.0	975.0	582267.1	7071320.8	4.0	-4.0	2.0	2.0	-4.0
2800.0	987.5	582269.1	7071332.4	5.0	-9.0	0.0	1.0	0.0
2800.0	1000.0	582271.2	7071344.0	5.0	-18.0	1.0	1.0	-2.0
2800.0	1012.5	582273.2	7071356.5	0.0	-6.0	-3.0	-1.0	-1.0
2800.0	1025.0	582275.2	7071369.1	0.0	-4.0	0.0	-1.0	-2.0
2800.0	1037.5	582277.2	7071381.6	-1.0	-18.0	-7.0	0.0	-2.0
2800.0	1050.0	582279.2	7071394.2	-5.0	-14.0	-3.0	2.0	-2.0
2800.0	1062.5	582281.2	7071406.7	5.0	-10.0	-8.0	-6.0	-2.0
2800.0	1075.0	582283.2	7071419.2	0.0	-10.0	-5.0	-2.0	-2.0
2800.0	1087.5	582285.1	7071431.8	3.0	-14.0	-2.0	0.0	-2.0
2800.0	1100.0	582287.1	7071444.3	-10.0	-12.0	-4.0	2.0	-2.0
2800.0	1112.5	582289.5	7071455.5	-8.0	-8.0	0.0	0.0	-8.0
2800.0	1125.0	582291.8	7071466.8	0.0	-10.0	-4.0	2.0	-8.0
2800.0	1137.5	582294.1	7071478.0	25.0	-4.0	0.0	1.0	-8.0
2800.0	1150.0	582296.5	7071489.2	20.0	-6.0	-2.0	-1.0	-8.0
2800.0	1162.5	582298.8	7071500.4	90.0	6.0	0.0	2.0	-6.0
2800.0	1175.0	582301.1	7071511.7	100.0	0.0	-2.0	0.0	-6.0
2800.0	1187.5	582303.5	7071522.9	40.0	-2.0	0.0	1.0	-6.0
2800.0	1200.0	582305.8	7071534.1	10.0	-18.0	-5.0	-1.0	-5.0
2800.0	1212.5	582307.9	7071545.9	10.0	2.0	0.0	2.0	-5.0
2800.0	1225.0	582310.1	7071557.7	2.0	-10.0	2.0	1.0	-5.0
2800.0	1237.5	582312.2	7071569.4	7.0	10.0	1.0	-3.0	-5.0
2800.0	1250.0	582314.4	7071581.2	0.0	-4.0	7.0	2.0	-8.0
2800.0	1262.5	582316.5	7071592.9	-3.0	-1.0	1.0	0.0	-8.0
2800.0	1275.0	582318.6	7071604.7	0.0	-18.0	-3.0	3.0	-8.0
2800.0	1287.5	582320.8	7071616.5	3.0	-18.0	0.0	0.0	-5.0
2800.0	1300.0	582322.9	7071628.2	8.0	-28.0	-2.0	1.0	-10.
2800.0	1312.5	582325.0	7071640.3	10.0	8.0	-4.0	4.0	-5.0
2800.0	1325.0	582327.1	7071652.4	-3.0	12.0	-5.0	1.0	-5.0
2800.0	1337.5	582329.2	7071664.5	1.0	12.0	-7.0	8.0	-5.0
2800.0	1350.0	582331.3	7071676.6	-2.0	-10.0	2.0	1.0	-5.0
2800.0	1362.5	582333.4	7071688.7	-2.0	-12.0	-5.0	0.0	-5.0
2800.0	1375.0	582335.6	7071700.7	-5.0	-4.0	-8.0	1.0	-5.0
2800.0	1387.5	582337.7	7071712.8	-1.0	-8.0	-20.0	-4.0	-5.0
2800.0	1400.0	582339.8	7071724.9	0.0	-1.0	-22.0	-5.0	-5.0
2800.0	1412.5	582340.9	7071736.9	0.0	-4.0	-16.0	-8.0	-40.
2800.0	1425.0	582342.1	7071748.8	0.0	-22.0	-18.0	-4.0	-20.
2800.0	1437.5	582343.2	7071760.8	-1.0	20.0	-9.0	-8.0	0.0
2800.0	1450.0	582344.4	7071772.8	0.0	-10.0	-8.0	-1.0	0.0
2800.0	1462.5	582345.6	7071784.7	0.0	0.0	-3.0	-8.0	0.0
2800.0	1475.0	582346.7	7071796.7	0.0	0.0	0.0	-8.0	0.0
2800.0	1487.5	582347.9	7071808.7	-2.0	-10.0	2.0	-10.0	0.0
2800.0	1500.0	582349.0	7071820.6	-10.0	-30.0	0.0	-8.0	0.0
2800.0	1512.5	582352.2	7071832.6	-22.0	-12.0	0.0	-4.0	0.0
2800.0	1525.0	582355.4	7071844.5	-16.0	-15.0	-2.0	-4.0	0.0
2800.0	1537.5	582358.7	7071856.4	-20.0	0.0	0.0	-10.0	0.0
2800.0	1550.0	582361.9	7071868.3	-25.0	12.0	10.0	-4.0	0.0
2800.0	1562.5	582365.1	7071880.2	-28.0	-10.0	12.0	-1.0	0.0
2800.0	1575.0	582368.3	7071892.1	-8.0	-4.0	20.0	10.0	0.0
2800.0	1587.5	582371.5	7071904.0	2.0	-2.0	14.0	9.0	0.0
2800.0	1600.0	582374.7	7071915.9	12.0	20.0	10.0	2.0	0.0
2800.0	1612.5	582377.7	7071928.0	30.0	-20.0	8.0	-4.0	40.0

2800.0	1625.0	582380.8	7071940.2	15.0	-22.0	0.0	-4.0	-6.0
2800.0	1637.5	582383.8	7071952.3	-5.0	-28.0	0.0	-8.0	-3.0
2800.0	1650.0	582386.8	7071964.4	-20.0	44.0	-3.0	-8.0	-3.0
2800.0	1662.5	582389.9	7071976.5	-20.0	-28.0	0.0	-3.0	0.0
2800.0	1675.0	582392.9	7071988.6	-40.0	-16.0	2.0	-8.0	0.0
2800.0	1687.5	582395.9	7072000.7	-42.0	22.0	2.0	-4.0	-7.0
2800.0	1700.0	582398.9	7072012.8	-24.0	-22.0	5.0	-10.0	-10.
2800.0	1712.5	582399.8	7072024.7	-30.0	-10.0	4.0	-4.0	-10.
2800.0	1725.0	582400.7	7072036.5	-30.0	-12.0	2.0	-8.0	-10.
2800.0	1737.5	582401.6	7072048.4	-23.0	-22.0	2.0	-8.0	-10.
2800.0	1750.0	582402.5	7072060.3	-30.0	-18.0	-2.0	-4.0	-10.
2800.0	1762.5	582403.4	7072072.1	-20.0	-30.0	-1.0	-8.0	-12.
2800.0	1775.0	582404.3	7072084.0	-22.0	-30.0	-5.0	-6.0	-30.
2800.0	1787.5	582405.2	7072095.8	-15.0	-22.0	-6.0	-1.0	-30.
2800.0	1800.0	582406.0	7072107.7	-8.0	-18.0	-1.0	-4.0	0.0
2800.0	1812.5	582408.5	7072120.4	-4.0	-20.0	2.0	0.0	0.0
2800.0	1825.0	582411.0	7072133.1	0.0	-18.0	0.0	-2.0	0.0
2800.0	1837.5	582413.5	7072145.8	-1.0	-18.0	-5.0	-6.0	0.0
2800.0	1850.0	582416.0	7072158.5	-6.0	-30.0	0.0	-2.0	0.0
2800.0	1862.5	582418.5	7072171.2	4.0	-8.0	-2.0	-10.0	0.0
2800.0	1875.0	582421.0	7072183.9	0.0	-8.0	6.0	-4.0	0.0
2800.0	1887.5	582423.5	7072196.6	3.0	-14.0	5.0	-6.0	0.0
2800.0	1900.0	582426.0	7072209.3	2.0	-18.0	7.0	-10.0	10.0
2800.0	1912.5	582429.4	7072224.7	-10.0	-12.0	1.0	-14.0	2.0
2800.0	1950.0	582458.5	7072332.7	46.0	-10.0	6.0	-2.0	-18.
2800.0	1962.5	582461.8	7072357.5	30.0	-2.0	8.0	-2.0	20.0
2800.0	1975.0	582465.1	7072382.2	18.0	-22.0	8.0	-8.0	20.0
2800.0	1987.5	582468.3	7072407.0	20.0	-12.0	10.0	-6.0	3.0
2800.0	2000.0	582471.6	7072431.8	12.0	-22.0	12.0	-6.0	0.0
2800.0	2012.5	582472.7	7072440.3	12.0	-20.0	10.0	-13.0	0.0
2800.0	2025.0	582473.8	7072448.8	14.0	-6.0	8.0	-10.0	0.0
2800.0	2037.5	582474.8	7072457.3	0.0	-2.0	8.0	-12.0	0.0
2800.0	2050.0	582475.9	7072465.7	-3.0	-10.0	2.0	-8.0	0.0
2800.0	2062.5	582477.0	7072474.2	-3.0	-11.0	3.0	-6.0	0.0
2800.0	2075.0	582478.0	7072482.7	3.0	-15.0	5.0	-6.0	-8.0
2800.0	2087.5	582479.1	7072491.2	3.0	-15.0	5.0	-16.0	-8.0
2800.0	2100.0	582480.2	7072499.7	6.0	-9.0	6.0	-9.0	4.0
2800.0	2112.5	582481.3	7072508.2	1.0	-15.0	6.0	-8.0	0.0
2800.0	2125.0	582482.3	7072516.7	2.0	-19.0	10.0	-9.0	-20.
2800.0	2137.5	582483.4	7072525.1	7.0	-9.0	2.0	-12.0	-32.
2800.0	2150.0	582484.5	7072533.6	25.0	32.0	8.0	-6.0	0.0
3000.0	0.0	582296.7	7070410.6	2.0	-20.0	-2.0	3.0	0.0
3000.0	12.5	582301.0	7070422.0	15.0	-30.0	-10.0	6.0	0.0
3000.0	25.0	582305.4	7070433.4	12.0	-13.0	-8.0	4.0	0.0
3000.0	37.5	582309.7	7070444.7	10.0	-12.0	-5.0	2.0	0.0
3000.0	50.0	582314.0	7070456.1	3.0	-12.0	-12.0	0.0	0.0
3000.0	62.5	582318.4	7070467.4	4.0	-12.0	-8.0	10.0	0.0
3000.0	75.0	582322.7	7070478.8	2.0	-10.0	3.0	6.0	0.0
3000.0	87.5	582327.0	7070490.2	-2.0	-12.0	9.0	1.0	0.0
3000.0	100.0	582331.3	7070501.5	0.0	0.0	10.0	3.0	0.0
3000.0	112.5	582333.1	7070513.7	5.0	-5.0	10.0	8.0	3.0
3000.0	125.0	582334.9	7070526.0	3.0	-26.0	10.0	3.0	5.0
3000.0	137.5	582336.7	7070538.2	1.0	6.0	13.0	-1.0	10.0
3000.0	150.0	582338.4	7070550.4	-1.0	-8.0	14.0	1.0	-6.0
3000.0	162.5	582340.2	7070562.6	-10.0	-12.0	2.0	5.0	0.0
3000.0	175.0	582342.0	7070574.8	-30.0	4.0	14.0	-2.0	3.0
3000.0	187.5	582343.8	7070587.1	-20.0	-20.0	14.0	2.0	3.0
3000.0	200.0	582345.5	7070599.3	-10.0	-8.0	14.0	2.0	3.0
3000.0	212.5	582347.1	7070611.1	-20.0	-18.0	20.0	-8.0	3.0
3000.0	225.0	582348.7	7070623.0	-20.0	-12.0	8.0	0.0	3.0

3000.0	237.5	582350.3	7070634.8	-1.0	-4.0	5.0	3.0	3.0
3000.0	250.0	582351.9	7070646.6	-2.0	-18.0	5.0	5.0	3.0
3000.0	262.5	582353.5	7070658.5	0.0	-14.0	6.0	3.0	3.0
3000.0	275.0	582355.0	7070670.3	0.0	2.0	5.0	4.0	3.0
3000.0	287.5	582356.6	7070682.1	-2.0	0.0	3.0	9.0	3.0
3000.0	300.0	582358.2	7070694.0	-1.0	-10.0	0.0	5.0	3.0
3000.0	312.5	582361.4	7070706.2	-4.0	-12.0	-1.0	4.0	2.0
3000.0	325.0	582364.6	7070718.5	2.0	-8.0	0.0	6.0	5.0
3000.0	337.5	582367.8	7070730.8	25.0	-6.0	3.0	3.0	-3.0
3000.0	350.0	582370.9	7070743.1	2.0	10.0	5.0	4.0	-3.0
3000.0	362.5	582374.1	7070755.4	0.0	-18.0	3.0	5.0	3.0
3000.0	375.0	582377.3	7070767.7	5.0	-20.0	6.0	4.0	3.0
3000.0	387.5	582380.5	7070780.0	0.0	-2.0	11.0	6.0	-3.0
3000.0	400.0	582378.8	7070786.0	0.0	9.0	10.0	8.0	-3.0
3000.0	412.5	582381.1	7070798.0	-3.0	-8.0	15.0	4.0	0.0
3000.0	425.0	582383.4	7070810.0	-8.0	-9.0	11.0	3.0	3.0
3000.0	437.5	582385.7	7070822.0	0.0	-6.0	10.0	5.0	3.0
3000.0	450.0	582388.0	7070833.9	0.0	2.0	5.0	1.0	3.0
3000.0	462.5	582390.2	7070845.9	-6.0	1.0	3.0	4.0	3.0
3000.0	475.0	582392.5	7070857.9	-5.0	2.0	2.0	6.0	3.0
3000.0	487.5	582394.8	7070869.9	-2.0	-2.0	0.0	4.0	3.0
3000.0	500.0	582397.1	7070881.8	-5.0	-4.0	2.0	4.0	3.0
3000.0	512.5	582399.2	7070893.9	-8.0	-8.0	3.0	1.0	3.0
3000.0	525.0	582401.3	7070906.1	-2.0	-1.0	2.0	6.0	3.0
3000.0	537.5	582403.4	7070918.2	-7.0	-5.0	1.0	3.0	3.0
3000.0	550.0	582405.5	7070930.3	-8.0	-2.0	2.0	1.0	2.0
3000.0	562.5	582407.6	7070942.4	-5.0	-8.0	1.0	3.0	2.0
3000.0	575.0	582409.7	7070954.5	-3.0	-8.0	4.0	3.0	2.0
3000.0	587.5	582411.8	7070966.6	4.0	-8.0	2.0	2.0	2.0
3000.0	600.0	582413.9	7070978.7	-1.0	-4.0	8.0	1.0	2.0
3000.0	612.5	582416.1	7070991.3	0.0	-12.0	-10.0	0.0	0.0
3000.0	625.0	582418.3	7071003.8	-5.0	-6.0	12.0	-1.0	0.0
3000.0	637.5	582420.5	7071016.4	-6.0	-11.0	12.0	-4.0	0.0
3000.0	650.0	582422.7	7071029.0	-2.0	-12.0	10.0	0.0	0.0
3000.0	662.5	582424.9	7071041.6	-6.0	1.0	13.0	1.0	0.0
3000.0	675.0	582427.1	7071054.2	-3.0	-1.0	-9.0	-8.0	0.0
3000.0	687.5	582429.3	7071066.7	-2.0	-8.0	13.0	-2.0	0.0
3000.0	700.0	582431.6	7071079.3	0.0	-6.0	15.0	1.0	0.0
3000.0	712.5	582432.9	7071090.8	-3.0	-4.0	8.0	-1.0	0.0
3000.0	725.0	582434.2	7071102.4	-2.0	-8.0	10.0	4.0	0.0
3000.0	737.5	582435.4	7071113.9	-3.0	-10.0	12.0	4.0	0.0
3000.0	750.0	582436.7	7071125.4	0.0	0.0	12.0	4.0	0.0
3000.0	762.5	582438.0	7071136.9	0.0	-4.0	8.0	1.0	0.0
3000.0	775.0	582439.3	7071148.4	2.0	-9.0	6.0	4.0	0.0
3000.0	787.5	582440.6	7071160.0	-2.0	0.0	4.0	1.0	0.0
3000.0	800.0	582441.9	7071171.5	-3.0	-2.0	5.0	4.0	0.0
3000.0	812.5	582446.4	7071183.5	0.0	0.0	3.0	5.0	0.0
3000.0	825.0	582450.8	7071195.5	0.0	-4.0	4.0	8.0	0.0
3000.0	837.5	582455.3	7071207.5	-5.0	-8.0	9.0	9.0	0.0
3000.0	850.0	582459.7	7071219.5	-20.0	4.0	8.0	7.0	0.0
3000.0	862.5	582464.2	7071231.5	16.0	2.0	0.0	9.0	0.0
3000.0	875.0	582468.6	7071243.5	-13.0	-4.0	1.0	6.0	0.0
3000.0	887.5	582473.1	7071255.5	-8.0	-4.0	10.0	12.0	0.0
3000.0	900.0	582477.5	7071267.5	-4.0	2.0	4.0	9.0	0.0
3000.0	912.5	582478.1	7071280.1	-5.0	-4.0	9.0	6.0	0.0
3000.0	925.0	582478.6	7071292.8	-3.0	0.0	1.0	6.0	3.0
3000.0	937.5	582479.1	7071305.4	0.0	0.0	-2.0	10.0	3.0
3000.0	950.0	582479.6	7071318.1	12.0	-9.0	2.0	4.0	3.0
3000.0	962.5	582480.1	7071330.8	10.0	-17.0	5.0	4.0	3.0
3000.0	975.0	582480.6	7071343.4	12.0	-6.0	-2.0	-6.0	3.0

3000.0	987.5	582481.2	7071356.1	22.0	-16.0	1.0	3.0	3.0
3000.0	1000.0	582481.7	7071368.7	23.0	-14.0	0.0	1.0	3.0
3000.0	1012.5	582484.0	7071380.4	35.0	-16.0	3.0	4.0	3.0
3000.0	1025.0	582486.3	7071392.0	9.0	-20.0	6.0	3.0	3.0
3000.0	1037.5	582488.7	7071403.7	3.0	-9.0	5.0	5.0	3.0
3000.0	1050.0	582491.0	7071415.3	20.0	22.0	8.0	4.0	3.0
3000.0	1062.5	582493.3	7071427.0	8.0	-6.0	6.0	2.0	3.0
3000.0	1075.0	582495.6	7071438.6	25.0	-40.0	5.0	1.0	3.0
3000.0	1087.5	582498.0	7071450.3	3.0	-22.0	35.0	-14.0	3.0
3000.0	1100.0	582500.3	7071461.9	8.0	-10.0	6.0	1.0	6.0
3000.0	1112.5	582501.9	7071474.3	7.0	-20.0	7.0	3.0	6.0
3000.0	1125.0	582503.6	7071486.6	3.0	-12.0	6.0	1.0	6.0
3000.0	1137.5	582505.2	7071499.0	2.0	-22.0	6.0	1.0	4.0
3000.0	1150.0	582506.9	7071511.4	6.0	-8.0	10.0	0.0	-4.0
3000.0	1162.5	582508.5	7071523.7	5.0	-14.0	6.0	3.0	1.0
3000.0	1175.0	582510.1	7071536.1	2.0	0.0	5.0	0.0	3.0
3000.0	1187.5	582511.8	7071548.4	0.0	2.0	3.0	4.0	36.0
3000.0	1200.0	582513.4	7071560.8	2.0	-8.0	2.0	0.0	8.0
3000.0	1212.5	582516.4	7071572.4	6.0	-12.0	1.0	3.0	2.0
3000.0	1225.0	582519.4	7071584.1	3.0	-6.0	3.0	6.0	0.0
3000.0	1237.5	582522.4	7071595.7	2.0	-18.0	3.0	4.0	-3.0
3000.0	1250.0	582525.4	7071607.4	6.0	3.0	4.0	4.0	7.0
3000.0	1262.5	582528.4	7071619.0	15.0	-4.0	6.0	6.0	22.0
3000.0	1275.0	582531.3	7071630.7	0.0	-6.0	2.0	1.0	13.0
3000.0	1287.5	582534.3	7071642.3	-2.0	8.0	3.0	4.0	7.0
3000.0	1300.0	582537.3	7071654.0	2.0	-3.0	-2.0	4.0	0.0
3000.0	1312.5	582538.3	7071666.2	0.0	0.0	-2.0	6.0	4.0
3000.0	1325.0	582539.3	7071678.5	0.0	6.0	0.0	4.0	12.0
3000.0	1337.5	582540.3	7071690.7	3.0	0.0	-4.0	0.0	-4.0
3000.0	1350.0	582541.3	7071702.9	0.0	-5.0	-1.0	1.0	12.0
3000.0	1362.5	582542.3	7071715.2	-5.0	-16.0	0.0	3.0	21.0
3000.0	1375.0	582543.3	7071727.4	0.0	0.0	3.0	1.0	22.0
3000.0	1387.5	582544.3	7071739.6	2.0	-4.0	0.0	2.0	17.0
3000.0	1400.0	582545.3	7071751.9	3.0	-18.0	-7.0	1.0	20.0
3000.0	1412.5	582547.4	7071763.6	10.0	-18.0	-9.0	3.0	20.0
3000.0	1425.0	582549.6	7071775.2	12.0	-18.0	-18.0	2.0	28.0
3000.0	1437.5	582551.7	7071786.9	20.0	-32.0	-18.0	-6.0	30.0
3000.0	1450.0	582553.8	7071798.6	-2.0	-10.0	-18.0	1.0	0.0
3000.0	1462.5	582556.0	7071810.3	4.0	-28.0	-12.0	1.0	0.0
3000.0	1475.0	582558.1	7071822.0	2.0	-12.0	-3.0	0.0	0.0
3000.0	1487.5	582560.2	7071833.7	2.0	-12.0	-7.0	2.0	-8.0
3000.0	1500.0	582562.4	7071845.4	2.0	-18.0	-5.0	0.0	8.0
3000.0	1512.5	582565.5	7071857.3	13.0	-2.0	-10.0	2.0	0.0
3000.0	1525.0	582568.6	7071869.3	12.0	-20.0	-5.0	2.0	-14.
3000.0	1537.5	582571.7	7071881.2	7.0	-14.0	-3.0	2.0	-15.
3000.0	1550.0	582574.7	7071893.2	5.0	-36.0	-1.0	4.0	-13.
3000.0	1562.5	582577.8	7071905.1	3.0	-8.0	2.0	1.0	-10.
3000.0	1575.0	582580.9	7071917.1	14.0	-22.0	-1.0	1.0	5.0
3000.0	1587.5	582584.0	7071929.0	12.0	6.0	4.0	-2.0	-3.0
3000.0	1600.0	582587.1	7071941.0	8.0	-36.0	2.0	0.0	0.0
3000.0	1612.5	582589.6	7071953.3	10.0	-28.0	4.0	-4.0	40.0
3000.0	1625.0	582592.1	7071965.5	10.0	10.0	6.0	-2.0	12.0
3000.0	1637.5	582594.6	7071977.8	22.0	-6.0	7.0	-8.0	12.0
3000.0	1650.0	582597.1	7071990.1	25.0	-18.0	6.0	-6.0	4.0
3000.0	1662.5	582599.7	7072002.4	30.0	-20.0	3.0	-6.0	-14.
3000.0	1675.0	582602.2	7072014.6	55.0	0.0	0.0	0.0	12.0
3000.0	1687.5	582604.7	7072026.9	35.0	24.0	3.0	0.0	0.0
3000.0	1700.0	582607.2	7072039.2	2.0	-10.0	2.0	-4.0	0.0
3000.0	1712.5	582608.7	7072051.5	-3.0	-4.0	-6.0	-9.0	0.0
3000.0	1725.0	582610.2	7072063.8	18.0	-12.0	-8.0	-6.0	0.0

3000.0	1737.5	582611.7	7072076.1	-3.0	-2.0	-6.0	-10.0	0.0
3000.0	1750.0	582613.3	7072088.4	-4.0	-14.0	-6.0	-4.0	0.0
3000.0	1762.5	582614.8	7072100.7	0.0	-8.0	-9.0	-6.0	0.0
3000.0	1775.0	582616.3	7072113.0	-1.0	-16.0	-5.0	-6.0	0.0
3000.0	1787.5	582617.8	7072125.3	2.0	-4.0	-4.0	-6.0	0.0
3000.0	1800.0	582619.3	7072137.6	8.0	-10.0	-2.0	0.0	0.0
3000.0	1812.5	582621.4	7072150.0	11.0	-13.0	-2.0	-2.0	0.0
3000.0	1825.0	582623.4	7072162.3	13.0	-16.0	2.0	-4.0	0.0
3000.0	1837.5	582625.5	7072174.7	2.0	-22.0	0.0	0.0	0.0
3000.0	1850.0	582627.5	7072187.1	2.0	-8.0	-2.0	-2.0	0.0
3000.0	1862.5	582629.6	7072199.4	4.0	-12.0	-3.0	0.0	0.0
3000.0	1875.0	582631.6	7072211.8	11.0	-22.0	-2.0	2.0	5.0
3000.0	1887.5	582633.6	7072224.2	15.0	-10.0	-1.0	0.0	-10.
3000.0	1900.0	582635.7	7072236.5	20.0	-2.0	-2.0	-2.0	10.0
3000.0	1912.5	582635.9	7072248.8					
3000.0	1925.0	582636.2	7072261.2					
3000.0	1937.5	582636.5	7072273.5	5.0	12.0	-12.0	-6.0	0.0
3000.0	1950.0	582637.8	7072285.1	14.0	0.0	-10.0	-1.0	-2.0
3000.0	1962.5	582639.1	7072296.7	5.0	13.0	-13.0	-4.0	0.0
3000.0	1975.0	582640.4	7072308.3	30.0	18.0	-7.0	0.0	-15.
3000.0	1987.5	582641.7	7072319.8	25.0	32.0	-18.0	1.0	-3.0
3000.0	2000.0	582643.0	7072331.4	-5.0	-10.0	-12.0	-8.0	-4.0
3000.0	2012.5	582645.7	7072343.5	-6.0	-10.0	-8.0	-8.0	-10.
3000.0	2025.0	582648.3	7072355.7	-3.0	-16.0	-17.0	-6.0	0.0
3000.0	2037.5	582651.0	7072367.8	-10.0	0.0	-10.0	-6.0	0.0
3000.0	2050.0	582653.7	7072379.9	-12.0	-8.0	-13.0	-8.0	35.0
3000.0	2062.5	582656.3	7072392.0	-8.0	-16.0	-4.0	-2.0	3.0
3000.0	2075.0	582659.0	7072404.1	-8.0	-12.0	-2.0	-2.0	0.0
3000.0	2087.5	582661.7	7072416.3	1.0	-10.0	3.0	-1.0	-2.0
3000.0	2100.0	582664.3	7072428.4	5.0	-10.0	8.0	-2.0	-12.
3000.0	2112.5	582667.0	7072440.5	-2.0	-12.0	13.0	-2.0	0.0
3200.0	0.0	582502.9	7070314.5	-5.0	-3.0	5.0	-1.0	0.0
3200.0	12.5	582506.7	7070327.4	-3.0	-1.0	5.0	2.0	0.0
3200.0	25.0	582510.6	7070340.4	0.0	2.0	5.0	-2.0	0.0
3200.0	37.5	582514.4	7070353.3	-2.0	-5.0	5.0	-5.0	0.0
3200.0	50.0	582518.3	7070366.2	-3.0	-8.0	10.0	2.0	0.0
3200.0	62.5	582522.1	7070379.2	-5.0	-7.0	7.0	-2.0	0.0
3200.0	75.0	582526.0	7070392.1	-5.0	-5.0	10.0	0.0	0.0
3200.0	87.5	582529.8	7070405.0	-5.0	-2.0	5.0	-3.0	0.0
3200.0	100.0	582533.7	7070418.0	-5.0	-5.0	5.0	0.0	0.0
3200.0	112.5	582535.1	7070429.1	-5.0	0.0	10.0	0.0	0.0
3200.0	125.0	582536.4	7070440.3	-5.0	-1.0	5.0	-2.0	0.0
3200.0	137.5	582537.8	7070451.5	-5.0	2.0	9.0	-1.0	0.0
3200.0	150.0	582539.2	7070462.7	-4.0	-3.0	5.0	0.0	0.0
3200.0	162.5	582540.6	7070473.8	0.0	-2.0	3.0	-3.0	0.0
3200.0	175.0	582541.9	7070485.0	0.0	-11.0	4.0	-2.0	0.0
3200.0	187.5	582543.3	7070496.2	0.0	-3.0	5.0	2.0	0.0
3200.0	200.0	582544.7	7070507.4	-5.0	4.0	4.0	2.0	0.0
3200.0	212.5	582547.1	7070520.6	-3.0	2.0	3.0	2.0	0.0
3200.0	225.0	582549.4	7070533.8	-5.0	-12.0	4.0	-7.0	0.0
3200.0	237.5	582551.8	7070547.0	-5.0	4.0	6.0	5.0	-10.
3200.0	250.0	582554.2	7070560.2	-3.0	-10.0	4.0	1.0	10.0
3200.0	262.5	582556.6	7070573.4	-7.0	-4.0	5.0	3.0	0.0
3200.0	275.0	582559.0	7070586.6	-8.0	10.0	5.0	0.0	-15.
3200.0	287.5	582561.4	7070599.8	-5.0	4.0	4.0	3.0	-15.
3200.0	300.0	582563.8	7070613.0	-5.0	-6.0	5.0	3.0	10.0
3200.0	312.5	582565.8	7070624.7	-3.0	-8.0	0.0	0.0	5.0
3200.0	325.0	582567.8	7070636.4	-5.0	6.0	2.0	0.0	0.0
3200.0	337.5	582569.8	7070648.1	-15.0	0.0	2.0	0.0	5.0
3200.0	350.0	582571.8	7070659.8	-10.0	12.0	4.0	0.0	-5.0

3200.0	362.5	582573.8	7070671.5	-10.0	4.0	4.0	2.0	-5.0
3200.0	375.0	582575.8	7070683.2	-8.0	4.0	5.0	-1.0	0.0
3200.0	387.5	582577.8	7070694.9	-7.0	2.0	5.0	1.0	0.0
3200.0	400.0	582579.8	7070706.6	-5.0	7.0	4.0	2.0	0.0
3200.0	412.5	582581.8	7070719.2	-5.0	8.0	4.0	4.0	0.0
3200.0	425.0	582583.9	7070731.8	-5.0	10.0	5.0	5.0	0.0
3200.0	437.5	582585.9	7070744.3	-5.0	10.0	5.0	2.0	0.0
3200.0	450.0	582588.0	7070756.9	-5.0	8.0	6.0	3.0	0.0
3200.0	462.5	582590.0	7070769.5	-6.0	8.0	5.0	3.0	-3.0
3200.0	475.0	582592.1	7070782.1	-5.0	10.0	7.0	4.0	-3.0
3200.0	487.5	582594.1	7070794.6	-3.0	6.0	10.0	2.0	-3.0
3200.0	500.0	582596.2	7070807.2	-3.0	10.0	8.0	5.0	0.0
3200.0	512.5	582598.5	7070819.0	-4.0	12.0	9.0	3.0	0.0
3200.0	525.0	582600.9	7070830.7	-3.0	-5.0	7.0	2.0	0.0
3200.0	537.5	582603.2	7070842.5	0.0	0.0	8.0	2.0	0.0
3200.0	550.0	582605.5	7070854.2	0.0	8.0	10.0	2.0	0.0
3200.0	562.5	582607.9	7070865.9	0.0	-3.0	7.0	0.0	0.0
3200.0	575.0	582610.2	7070877.7	-2.0	2.0	7.0	3.0	0.0
3200.0	587.5	582612.5	7070889.4	-5.0	8.0	5.0	4.0	0.0
3200.0	600.0	582614.9	7070901.2	-7.0	4.0	11.0	6.0	0.0
3200.0	612.5	582616.6	7070913.8	-2.0	2.0	7.0	4.0	0.0
3200.0	625.0	582618.3	7070926.4	-5.0	15.0	5.0	6.0	0.0
3200.0	637.5	582620.0	7070939.1	3.0	8.0	4.0	5.0	0.0
3200.0	650.0	582621.8	7070951.7	0.0	0.0	3.0	2.0	0.0
3200.0	662.5	582623.5	7070964.3	0.0	-8.0	3.0	4.0	0.0
3200.0	675.0	582625.2	7070977.0	-5.0	2.0	4.0	4.0	0.0
3200.0	687.5	582626.9	7070989.6	-5.0	0.0	5.0	6.0	0.0
3200.0	700.0	582628.7	7071002.2	-6.0	2.0	5.0	2.0	0.0
3200.0	712.5	582631.2	7071014.1	-5.0	10.0	9.0	4.0	0.0
3200.0	725.0	582633.7	7071026.0	-4.0	10.0	5.0	5.0	0.0
3200.0	737.5	582636.3	7071037.9	-8.0	10.0	9.0	6.0	0.0
3200.0	750.0	582638.8	7071049.8	-10.0	14.0	7.0	5.0	0.0
3200.0	762.5	582641.4	7071061.6	-10.0	16.0	5.0	5.0	0.0
3200.0	775.0	582643.9	7071073.5	-2.0	13.0	7.0	4.0	0.0
3200.0	787.5	582646.5	7071085.4	-2.0	14.0	5.0	-2.0	0.0
3200.0	800.0	582649.0	7071097.3	-5.0	12.0	10.0	6.0	0.0
3200.0	812.5	582651.8	7071109.5	-10.0	8.0	8.0	2.0	0.0
3200.0	825.0	582654.5	7071121.6	-13.0	12.0	7.0	2.0	0.0
3200.0	837.5	582657.2	7071133.8	-15.0	24.0	6.0	3.0	0.0
3200.0	850.0	582659.9	7071145.9	-10.0	-2.0	4.0	5.0	0.0
3200.0	862.5	582662.6	7071158.1	-10.0	5.0	5.0	2.0	0.0
3200.0	875.0	582665.4	7071170.2	-8.0	8.0	3.0	0.0	0.0
3200.0	887.5	582668.1	7071182.4	-10.0	10.0	0.0	0.0	0.0
3200.0	900.0	582670.8	7071194.5	-5.0	-10.0	0.0	0.0	0.0
3200.0	912.5	582673.6	7071206.6	-5.0	-5.0	0.0	-4.0	0.0
3200.0	925.0	582676.3	7071218.6	-5.0	-3.0	2.0	2.0	0.0
3200.0	937.5	582679.1	7071230.7	-5.0	-6.0	3.0	2.0	0.0
3200.0	950.0	582681.9	7071242.8	-5.0	-5.0	3.0	2.0	0.0
3200.0	962.5	582684.6	7071254.8	-4.0	-4.0	3.0	2.0	0.0
3200.0	975.0	582687.4	7071266.9	-7.0	0.0	3.0	5.0	0.0
3200.0	987.5	582690.1	7071278.9	-5.0	0.0	5.0	4.0	0.0
3200.0	1000.0	582692.9	7071291.0	-7.0	0.0	6.0	3.0	0.0
3200.0	1012.5	582695.2	7071302.1	-13.0	2.0	6.0	4.0	0.0
3200.0	1025.0	582697.5	7071313.3	-13.0	-3.0	4.0	3.0	0.0
3200.0	1037.5	582699.9	7071324.4	-7.0	-2.0	5.0	1.0	0.0
3200.0	1050.0	582702.2	7071335.5	-13.0	-2.0	5.0	2.0	0.0
3200.0	1062.5	582704.5	7071346.6	-15.0	4.0	10.0	4.0	-5.0
3200.0	1075.0	582706.8	7071357.8	-15.0	4.0	7.0	2.0	-5.0
3200.0	1087.5	582709.1	7071368.9	-20.0	4.0	6.0	4.0	-5.0
3200.0	1100.0	582711.4	7071380.0	-23.0	3.0	6.0	3.0	-3.0

3200.0	1112.5	582713.7	7071392.3	-17.0	6.0	8.0	3.0	-3.0
3200.0	1125.0	582716.0	7071404.6	-15.0	5.0	7.0	2.0	-5.0
3200.0	1137.5	582718.3	7071416.8	-13.0	-1.0	3.0	2.0	0.0
3200.0	1150.0	582720.6	7071429.1	-5.0	-6.0	5.0	0.0	-5.0
3200.0	1162.5	582722.9	7071441.4	-4.0	0.0	10.0	2.0	0.0
3200.0	1175.0	582725.2	7071453.7	0.0	6.0	10.0	4.0	-10.
3200.0	1187.5	582727.5	7071465.9	0.0	-10.0	10.0	4.0	0.0
3200.0	1200.0	582729.8	7071478.2	-5.0	-4.0	8.0	0.0	-5.0
3200.0	1212.5	582731.0	7071490.5	-16.0	0.0	10.0	2.0	-5.0
3200.0	1225.0	582732.1	7071502.8	-8.0	4.0	10.0	4.0	-3.0
3200.0	1237.5	582733.3	7071515.1	-12.0	2.0	7.0	-2.0	-5.0
3200.0	1250.0	582734.5	7071527.3	-10.0	-2.0	6.0	0.0	-5.0
3200.0	1262.5	582735.7	7071539.6	-10.0	2.0	8.0	2.0	-5.0
3200.0	1275.0	582736.9	7071551.9	-5.0	-4.0	5.0	3.0	-5.0
3200.0	1287.5	582738.0	7071564.2	-6.0	-8.0	9.0	0.0	-5.0
3200.0	1300.0	582739.2	7071576.5	-10.0	0.0	20.0	2.0	-5.0
3200.0	1312.5	582739.0	7071588.9	-10.0	0.0	14.0	5.0	-5.0
3200.0	1325.0	582738.7	7071601.3	-12.0	-1.0	10.0	5.0	-5.0
3200.0	1337.5	582738.5	7071613.7	-10.0	-3.0	4.0	2.0	0.0
3200.0	1350.0	582738.2	7071626.1	-10.0	2.0	8.0	-2.0	0.0
3200.0	1362.5	582738.0	7071638.5	-8.0	0.0	-5.0	4.0	-20.
3200.0	1375.0	582737.7	7071650.9	-9.0	2.0	-5.0	4.0	0.0
3200.0	1387.5	582737.5	7071663.3	-10.0	-10.0	-5.0	4.0	0.0
3200.0	1400.0	582737.3	7071675.7	-12.0	5.0	-5.0	-2.0	0.0
3200.0	1412.5	582742.1	7071686.6	-15.0	6.0	1.0	4.0	-5.0
3200.0	1425.0	582746.9	7071697.5	-5.0	16.0	4.0	4.0	-5.0
3200.0	1437.5	582751.8	7071708.3	3.0	10.0	-5.0	5.0	-5.0
3200.0	1450.0	582756.6	7071719.2	-3.0	-3.0	0.0	2.0	0.0
3200.0	1462.5	582761.5	7071730.1	-3.0	-3.0	4.0	-3.0	0.0
3200.0	1475.0	582766.3	7071741.0	-7.0	-3.0	-5.0	1.0	0.0
3200.0	1487.5	582771.2	7071751.8	-5.0	9.0	-5.0	-1.0	0.0
3200.0	1500.0	582776.0	7071762.7	0.0	-4.0	-5.0	2.0	-15.
3200.0	1512.5	582777.3	7071774.9	-4.0	-1.0	3.0	2.0	-5.0
3200.0	1525.0	582778.5	7071787.2	-5.0	-1.0	-5.0	2.0	-10.
3200.0	1537.5	582779.8	7071799.4	-5.0	-2.0	-2.0	3.0	0.0
3200.0	1550.0	582781.1	7071811.6	-5.0	-2.0	0.0	2.0	35.0
3200.0	1562.5	582782.3	7071823.8	-4.0	-2.0	7.0	2.0	-25.
3200.0	1575.0	582783.6	7071836.1	-8.0	-4.0	0.0	2.0	-5.0
3200.0	1587.5	582784.8	7071848.3	-7.0	-1.0	-3.0	0.0	0.0
3200.0	1600.0	582786.1	7071860.5	-5.0	-3.0	-3.0	0.0	0.0
3200.0	1612.5	582787.8	7071874.0	-2.0	-4.0	-3.0	-1.0	0.0
3200.0	1625.0	582789.5	7071887.4	0.0	1.0	-4.0	0.0	0.0
3200.0	1637.5	582791.2	7071900.8	0.0	-4.0	-5.0	0.0	0.0
3200.0	1650.0	582792.9	7071914.3	-1.0	-8.0	-5.0	-2.0	0.0
3200.0	1662.5	582794.6	7071927.7	0.0	-10.0	-3.0	0.0	0.0
3200.0	1675.0	582796.3	7071941.2	4.0	7.0	0.0	1.0	15.0
3200.0	1687.5	582798.0	7071954.6	-3.0	-13.0	-5.0	0.0	0.0
3200.0	1700.0	582799.8	7071968.1	0.0	-6.0	-6.0	-5.0	-5.0
3200.0	1712.5	582801.1	7071981.0	-3.0	2.0	-10.0	0.0	-10.
3200.0	1725.0	582802.4	7071994.0	0.0	0.0	-7.0	-3.0	0.0
3200.0	1737.5	582803.7	7072006.9	-3.0	1.0	-9.0	-4.0	0.0
3200.0	1750.0	582805.0	7072019.8	-6.0	0.0	-12.0	-5.0	0.0
3200.0	1762.5	582806.4	7072032.8	0.0	-6.0	-5.0	-3.0	15.0
3200.0	1775.0	582807.7	7072045.7	-2.0	-2.0	-7.0	-3.0	20.0
3200.0	1787.5	582809.0	7072058.7	0.0	-12.0	-5.0	-3.0	-8.0
3200.0	1800.0	582810.3	7072071.6	-2.0	-8.0	-8.0	-5.0	-7.0
3200.0	1812.5	582812.2	7072084.4	0.0	2.0	-6.0	-6.0	-5.0
3200.0	1825.0	582814.1	7072097.2	2.0	0.0	-10.0	-5.0	-5.0
3200.0	1837.5	582816.1	7072110.0	5.0	0.0	-10.0	-10.0	-5.0
3200.0	1850.0	582818.0	7072122.8	10.0	-6.0	-5.0	-7.0	20.0

3200.0	1862.5	582819.9	7072135.7	0.0	-2.0	3.0	-8.0	0.0
3200.0	1875.0	582821.8	7072148.5	1.0	-4.0	-3.0	-4.0	-15.
3200.0	1887.5	582823.7	7072161.3	5.0	-10.0	5.0	-5.0	-15.
3200.0	1900.0	582825.6	7072174.1	5.0	-3.0	2.0	-3.0	-15.
3200.0	1912.5	582827.3	7072186.8	2.0	-8.0	0.0	-6.0	0.0
3200.0	1925.0	582828.9	7072199.6	0.0	-12.0	0.0	-8.0	0.0
3200.0	1937.5	582830.6	7072212.3	0.0	-10.0	0.0	-8.0	0.0
3200.0	1950.0	582832.3	7072225.1	4.0	-10.0	0.0	-3.0	0.0
3200.0	1962.5	582834.0	7072237.9	5.0	-5.0	5.0	-5.0	0.0
3200.0	1975.0	582835.7	7072250.6	-2.0	-14.0	3.0	-2.0	0.0
3200.0	1987.5	582837.4	7072263.4	0.0	-10.0	4.0	-2.0	50.0
3200.0	2000.0	582839.1	7072276.1	0.0	-7.0	7.0	-3.0	0.0
3200.0	2012.5	582840.4	7072288.4	0.0	-11.0	15.0	2.0	-5.0
3200.0	2025.0	582841.7	7072300.7	0.0	-5.0	5.0	0.0	0.0
3200.0	2037.5	582843.0	7072312.9	0.0	-9.0	5.0	-4.0	-15.
3200.0	2050.0	582844.2	7072325.2	-3.0	-6.0	0.0	-3.0	-20.
3200.0	2062.5	582845.5	7072337.5	-5.0	-8.0	0.0	0.0	0.0
3200.0	2075.0	582846.8	7072349.7	0.0	-6.0	0.0	0.0	0.0
3200.0	2087.5	582848.1	7072362.0	5.0	-2.0	-3.0	-5.0	0.0
3200.0	2100.0	582849.4	7072374.3	8.0	4.0	-7.0	2.0	5.0
3200.0	2112.5	582853.6	7072385.3	5.0	0.0	-7.0	-4.0	5.0
3200.0	2125.0	582857.8	7072396.4	-2.0	-10.0	-10.0	-4.0	0.0
3200.0	2137.5	582862.1	7072407.5	3.0	-6.0	-6.0	-3.0	0.0
3200.0	2150.0	582866.3	7072418.6	3.0	-4.0	-5.0	-3.0	70.0
3400.0	0.0	582707.1	7070325.2	-10.0	-2.0	2.0	-1.0	0.0
3400.0	12.5	582711.4	7070336.4	-5.0	-10.0	-5.0	-2.0	0.0
3400.0	25.0	582715.6	7070347.6	-8.0	-5.0	4.0	0.0	0.0
3400.0	37.5	582719.8	7070358.8	-8.0	-3.0	5.0	1.0	0.0
3400.0	50.0	582724.1	7070370.1	-5.0	-3.0	4.0	1.0	0.0
3400.0	62.5	582728.3	7070381.3	-2.0	-4.0	2.0	0.0	0.0
3400.0	75.0	582732.5	7070392.5	-2.0	-10.0	3.0	-2.0	0.0
3400.0	87.5	582736.8	7070403.7	-3.0	-10.0	5.0	-2.0	0.0
3400.0	100.0	582741.0	7070414.9	-5.0	1.0	3.0	-2.0	0.0
3400.0	112.5	582743.0	7070426.3	-2.0	-10.0	7.0	0.0	0.0
3400.0	125.0	582745.0	7070437.8	-6.0	-1.0	3.0	-4.0	0.0
3400.0	137.5	582747.0	7070449.2	-3.0	-7.0	5.0	-1.0	0.0
3400.0	150.0	582749.0	7070460.7	0.0	-3.0	5.0	-2.0	0.0
3400.0	162.5	582751.0	7070472.1	-5.0	-1.0	5.0	0.0	0.0
3400.0	175.0	582753.0	7070483.5	-5.0	2.0	5.0	-1.0	0.0
3400.0	187.5	582755.0	7070495.0	-7.0	6.0	5.0	-1.0	0.0
3400.0	200.0	582757.1	7070506.4	-13.0	-3.0	-7.0	1.0	0.0
3400.0	212.5	582758.6	7070520.2	-15.0	-6.0	6.0	-2.0	0.0
3400.0	225.0	582760.1	7070534.1	-7.0	-10.0	9.0	-2.0	0.0
3400.0	237.5	582761.6	7070547.9	-10.0	-16.0	10.0	4.0	0.0
3400.0	250.0	582763.1	7070561.7	-6.0	-12.0	10.0	1.0	0.0
3400.0	262.5	582764.6	7070575.6	-5.0	-6.0	5.0	0.0	0.0
3400.0	275.0	582766.1	7070589.4	-7.0	-2.0	5.0	0.0	0.0
3400.0	287.5	582767.6	7070603.3	-7.0	-3.0	5.0	-1.0	0.0
3400.0	300.0	582769.1	7070617.1	-7.0	-4.0	3.0	-4.0	0.0
3400.0	312.5	582772.0	7070628.5	-7.0	-5.0	3.0	-4.0	0.0
3400.0	325.0	582774.9	7070639.9	-5.0	-7.0	4.0	-1.0	0.0
3400.0	337.5	582777.8	7070651.2	-10.0	-2.0	2.0	-4.0	0.0
3400.0	350.0	582780.7	7070662.6	-5.0	1.0	5.0	-1.0	0.0
3400.0	362.5	582783.6	7070674.0	-5.0	-4.0	3.0	1.0	0.0
3400.0	375.0	582786.5	7070685.4	-5.0	-1.0	5.0	0.0	0.0
3400.0	387.5	582789.4	7070696.8	-8.0	-9.0	5.0	1.0	0.0
3400.0	400.0	582792.3	7070708.2	-3.0	-8.0	4.0	1.0	0.0
3400.0	412.5	582794.6	7070720.7	0.0	-2.0	3.0	2.0	0.0
3400.0	425.0	582796.8	7070733.2	-6.0	-4.0	3.0	2.0	0.0
3400.0	437.5	582799.1	7070745.8	-5.0	-1.0	2.0	-2.0	0.0

3400.0	450.0	582801.4	7070758.3	-5.0	-5.0	4.0	-1.0	0.0
3400.0	462.5	582803.7	7070770.8	-7.0	-8.0	3.0	-1.0	0.0
3400.0	475.0	582806.0	7070783.4	-8.0	-2.0	0.0	-1.0	0.0
3400.0	487.5	582808.2	7070795.9	-8.0	-2.0	0.0	-2.0	0.0
3400.0	500.0	582810.5	7070808.4	-5.0	-4.0	0.0	0.0	0.0
3400.0	512.5	582812.3	7070820.8	-4.0	-2.0	3.0	2.0	0.0
3400.0	525.0	582814.0	7070833.3	-5.0	-5.0	2.0	-1.0	0.0
3400.0	537.5	582815.7	7070845.7	-10.0	-3.0	0.0	-1.0	0.0
3400.0	550.0	582817.5	7070858.1	-7.0	2.0	0.0	0.0	0.0
3400.0	562.5	582819.2	7070870.5	-10.0	12.0	0.0	0.0	0.0
3400.0	575.0	582821.0	7070883.0	-5.0	-10.0	1.0	-1.0	0.0
3400.0	587.5	582822.7	7070895.4	-10.0	-15.0	-2.0	1.0	0.0
3400.0	600.0	582824.4	7070907.8	-5.0	-1.0	4.0	0.0	0.0
3400.0	612.5	582827.0	7070919.9	-5.0	-2.0	5.0	0.0	0.0
3400.0	625.0	582829.6	7070932.1	-5.0	-7.0	3.0	-1.0	0.0
3400.0	637.5	582832.1	7070944.2	-5.0	-2.0	5.0	0.0	0.0
3400.0	650.0	582834.7	7070956.4	-3.0	-12.0	5.0	-1.0	0.0
3400.0	662.5	582837.3	7070968.5	-5.0	-4.0	5.0	-1.0	0.0
3400.0	675.0	582839.8	7070980.6	-5.0	-5.0	5.0	-2.0	0.0
3400.0	687.5	582842.4	7070992.8	-5.0	4.0	4.0	3.0	0.0
3400.0	700.0	582845.0	7071004.9	-10.0	-5.0	5.0	0.0	0.0
3400.0	712.5	582845.9	7071017.9	-5.0	-8.0	5.0	2.0	0.0
3400.0	725.0	582846.8	7071030.8	-5.0	-12.0	3.0	0.0	0.0
3400.0	737.5	582847.8	7071043.8	-10.0	4.0	4.0	0.0	0.0
3400.0	750.0	582848.7	7071056.8	-5.0	-3.0	5.0	0.0	0.0
3400.0	762.5	582849.6	7071069.7	-10.0	-11.0	4.0	1.0	0.0
3400.0	775.0	582850.6	7071082.7	-5.0	-6.0	5.0	0.0	0.0
3400.0	787.5	582851.5	7071095.7	-8.0	-6.0	2.0	-2.0	0.0
3400.0	800.0	582852.4	7071108.6	-8.0	-14.0	0.0	0.0	0.0
3400.0	812.5	582854.7	7071120.4	-10.0	-4.0	0.0	-2.0	0.0
3400.0	825.0	582857.0	7071132.3	-10.0	2.0	2.0	-2.0	0.0
3400.0	837.5	582859.3	7071144.1	-15.0	11.0	5.0	-2.0	0.0
3400.0	850.0	582861.6	7071155.9	-8.0	-1.0	5.0	-2.0	0.0
3400.0	862.5	582863.9	7071167.7	-6.0	4.0	3.0	-4.0	0.0
3400.0	875.0	582866.1	7071179.5	-6.0	8.0	1.0	-2.0	0.0
3400.0	887.5	582868.4	7071191.4	-15.0	-5.0	0.0	1.0	0.0
3400.0	900.0	582870.7	7071203.2	-10.0	-5.0	3.0	2.0	0.0
3400.0	912.5	582872.4	7071215.0	-18.0	-3.0	2.0	0.0	0.0
3400.0	925.0	582874.2	7071226.9	-19.0	-14.0	0.0	0.0	0.0
3400.0	937.5	582875.9	7071238.8	-15.0	-3.0	3.0	-1.0	0.0
3400.0	950.0	582877.7	7071250.6	-4.0	0.0	0.0	-2.0	0.0
3400.0	962.5	582879.4	7071262.5	-5.0	-6.0	0.0	-4.0	0.0
3400.0	975.0	582881.1	7071274.3	-5.0	-6.0	0.0	0.0	0.0
3400.0	987.5	582882.9	7071286.2	5.0	-10.0	4.0	0.0	0.0
3400.0	1000.0	582884.6	7071298.0	-10.0	-5.0	0.0	1.0	0.0
3400.0	1012.5	582887.1	7071308.9	-13.0	-12.0	3.0	2.0	0.0
3400.0	1025.0	582889.7	7071319.8	-11.0	-4.0	4.0	-2.0	0.0
3400.0	1037.5	582892.2	7071330.7	-10.0	-2.0	5.0	2.0	0.0
3400.0	1050.0	582894.7	7071341.5	-5.0	5.0	4.0	0.0	0.0
3400.0	1062.5	582897.2	7071352.4	-5.0	2.0	2.0	-1.0	0.0
3400.0	1075.0	582899.7	7071363.3	-5.0	-7.0	4.0	2.0	0.0
3400.0	1087.5	582902.3	7071374.1	-10.0	-4.0	1.0	-1.0	0.0
3400.0	1100.0	582904.8	7071385.0	-10.0	4.0	5.0	2.0	0.0
3400.0	1112.5	582908.7	7071397.8	5.0	-18.0	0.0	0.0	0.0
3400.0	1125.0	582912.6	7071410.6	0.0	-4.0	2.0	2.0	5.0
3400.0	1137.5	582916.5	7071423.4	-10.0	0.0	0.0	4.0	0.0
3400.0	1150.0	582920.5	7071436.2	-15.0	-10.0	-4.0	4.0	0.0
3400.0	1162.5	582924.4	7071449.0	-5.0	-2.0	0.0	6.0	10.0
3400.0	1175.0	582928.3	7071461.8	0.0	-8.0	0.0	8.0	5.0
3400.0	1187.5	582932.2	7071474.7	-5.0	16.0	-2.0	4.0	0.0

3400.0	1200.0	582936.1	7071487.5	-10.0	-10.0	0.0	8.0	0.0
3400.0	1212.5	582938.2	7071499.4	-5.0	-8.0	0.0	-1.0	0.0
3400.0	1225.0	582940.3	7071511.3	-5.0	4.0	-4.0	6.0	0.0
3400.0	1237.5	582942.3	7071523.2	-5.0	-16.0	-5.0	3.0	30.0
3400.0	1250.0	582944.4	7071535.1	10.0	-14.0	0.0	4.0	40.0
3400.0	1262.5	582946.5	7071547.1	0.0	-6.0	0.0	5.0	0.0
3400.0	1275.0	582948.6	7071559.0	-5.0	-7.0	0.0	2.0	0.0
3400.0	1287.5	582950.6	7071570.9	5.0	-5.0	5.0	10.0	0.0
3400.0	1300.0	582952.7	7071582.8	0.0	-5.0	4.0	2.0	0.0
3400.0	1312.5	582955.1	7071595.3	0.0	-11.0	5.0	10.0	0.0
3400.0	1325.0	582957.6	7071607.7	-5.0	-6.0	5.0	2.0	0.0
3400.0	1337.5	582960.0	7071620.2	-5.0	4.0	4.0	4.0	0.0
3400.0	1350.0	582962.5	7071632.7	-5.0	-6.0	5.0	2.0	-5.0
3400.0	1362.5	582964.9	7071645.1	0.0	-8.0	5.0	7.0	-5.0
3400.0	1375.0	582967.4	7071657.6	-5.0	-8.0	0.0	0.0	-5.0
3400.0	1387.5	582969.8	7071670.0	-5.0	4.0	-5.0	2.0	-10.
3400.0	1400.0	582972.3	7071682.5	-10.0	2.0	-5.0	5.0	-5.0
3400.0	1412.5	582973.6	7071693.2	-5.0	0.0	-7.0	3.0	0.0
3400.0	1425.0	582974.9	7071703.8	-5.0	-6.0	-5.0	-2.0	-5.0
3400.0	1437.5	582976.2	7071714.4	0.0	-10.0	-10.0	2.0	-5.0
3400.0	1450.0	582977.6	7071725.1	0.0	-4.0	-5.0	0.0	5.0
3400.0	1462.5	582978.9	7071735.7	0.0	-20.0	-5.0	2.0	30.0
3400.0	1475.0	582980.2	7071746.4	0.0	-2.0	0.0	8.0	-35.
3400.0	1487.5	582981.5	7071757.0	-5.0	4.0	0.0	5.0	0.0
3400.0	1500.0	582982.8	7071767.7	-10.0	20.0	-5.0	5.0	0.0
3400.0	1512.5	582983.2	7071780.4	-5.0	3.0	-5.0	0.0	0.0
3400.0	1525.0	582983.5	7071793.2	0.0	-2.0	-5.0	2.0	0.0
3400.0	1537.5	582983.9	7071805.9	0.0	-8.0	0.0	2.0	0.0
3400.0	1550.0	582984.2	7071818.7	-10.0	10.0	0.0	2.0	0.0
3400.0	1562.5	582984.6	7071831.4	0.0	-5.0	0.0	5.0	0.0
3400.0	1575.0	582984.9	7071844.2	0.0	-1.0	0.0	2.0	0.0
3400.0	1587.5	582985.3	7071856.9	5.0	5.0	0.0	4.0	0.0
3400.0	1600.0	582985.6	7071869.7	5.0	-2.0	5.0	2.0	20.0
3400.0	1612.5	582987.7	7071883.9	5.0	-5.0	5.0	4.0	25.0
3400.0	1625.0	582989.8	7071898.0	0.0	-4.0	0.0	0.0	0.0
3400.0	1637.5	582991.9	7071912.2	5.0	-8.0	5.0	4.0	0.0
3400.0	1650.0	582994.0	7071926.3	0.0	-2.0	5.0	6.0	0.0
3400.0	1662.5	582996.0	7071940.5	0.0	0.0	10.0	2.0	-65.
3400.0	1675.0	582998.1	7071954.6	0.0	3.0	5.0	4.0	-20.
3400.0	1687.5	583000.2	7071968.8	0.0	-3.0	5.0	2.0	-35.
3400.0	1700.0	583002.3	7071982.9	-5.0	8.0	0.0	2.0	65.0
3400.0	1712.5	583003.3	7071990.7	-5.0	-8.0	5.0	4.0	45.0
3400.0	1725.0	583004.4	7071998.5	0.0	-6.0	-10.0	2.0	0.0
3400.0	1737.5	583005.4	7072006.4	-5.0	-8.0	5.0	4.0	-5.0
3400.0	1750.0	583006.4	7072014.2	-5.0	-8.0	0.0	-2.0	20.0
3400.0	1762.5	583007.5	7072022.0	-5.0	-15.0	0.0	4.0	0.0
3400.0	1775.0	583008.5	7072029.8	-5.0	-13.0	-5.0	8.0	0.0
3400.0	1787.5	583009.6	7072037.7	5.0	-18.0	-5.0	3.0	0.0
3400.0	1800.0	583010.6	7072045.5	-5.0	-2.0	-5.0	2.0	0.0
3400.0	1812.5	583011.6	7072053.3	-10.0	-8.0	-10.0	2.0	0.0
3400.0	1825.0	583012.7	7072061.1	5.0	-8.0	-5.0	1.0	-45.
3400.0	1837.5	583013.7	7072069.0	5.0	-2.0	-5.0	6.0	65.0
3400.0	1850.0	583014.8	7072076.8	10.0	-1.0	0.0	0.0	
3400.0	1862.5	583016.8	7072088.9	5.0	2.0	0.0	0.0	0.0
3400.0	1875.0	583018.9	7072101.1	0.0	-10.0	0.0	-12.0	0.0
3400.0	1887.5	583021.0	7072113.3	-5.0	-8.0	0.0	2.0	0.0
3400.0	1900.0	583023.1	7072125.4	-5.0	-1.0	0.0	0.0	0.0
3400.0	1912.5	583025.2	7072137.6	-15.0	-6.0	0.0	1.0	0.0
3400.0	1925.0	583027.3	7072149.7	-10.0	-10.0	0.0	0.0	0.0
3400.0	1937.5	583029.4	7072161.9	-10.0	-18.0	0.0	-2.0	0.0

3400.0	1950.0	583031.5	7072174.1	-5.0	-3.0	0.0	0.0	0.0
3400.0	1962.5	583033.6	7072186.2	0.0	-10.0	5.0	2.0	0.0
3400.0	1975.0	583035.7	7072198.4	0.0	-6.0	5.0	2.0	0.0
3400.0	1987.5	583037.8	7072210.5	0.0	-3.0	5.0	3.0	0.0
3400.0	2000.0	583039.9	7072222.7	0.0	-4.0	0.0	4.0	0.0
3400.0	2012.5	583042.0	7072234.8	-5.0	3.0	0.0	0.0	0.0
3400.0	2025.0	583044.1	7072247.0	-5.0	-2.0	5.0	5.0	0.0
3400.0	2037.5	583046.2	7072259.2	0.0	-5.0	3.0	0.0	0.0
3400.0	2050.0	583048.3	7072271.3	-5.0	-9.0	0.0	-1.0	0.0
3400.0	2062.5	583050.4	7072283.5	-5.0	-10.0	0.0	-2.0	0.0
3400.0	2075.0	583052.5	7072295.6	-5.0	-5.0	0.0	2.0	0.0
3400.0	2087.5	583055.4	7072308.6	0.0				
3400.0	2100.0	583058.4	7072321.6	0.0				
3400.0	2112.5	583061.3	7072334.5	0.0				
3400.0	2125.0	583064.3	7072347.5	0.0	-3.0	0.0	2.0	0.0
3400.0	2137.5	583066.2	7072359.3	-5.0	-6.0	-10.0	-3.0	0.0
3400.0	2150.0	583068.2	7072371.0	0.0	8.0	0.0	3.0	0.0
3400.0	2162.5	583070.2	7072382.8	-5.0	-2.0	0.0	2.0	0.0
3400.0	2175.0	583072.1	7072394.5	-5.0	-3.0	0.0	2.0	0.0
3400.0	2187.5	583074.1	7072406.3	-4.0	-1.0	-5.0	5.0	0.0
3600.0	0.0	582892.1	7070240.6	-15.0	6.0	-20.0	2.0	2.0
3600.0	12.5	582894.1	7070253.5	-14.0	2.0	-6.0	2.0	2.0
3600.0	25.0	582896.1	7070266.4	-12.0	-4.0	-16.0	-3.0	2.0
3600.0	37.5	582898.2	7070279.4	-17.0	-2.0	-16.0	-3.0	2.0
3600.0	50.0	582900.2	7070292.3	-8.0	-2.0	-13.0	2.0	2.0
3600.0	62.5	582902.3	7070305.2	-15.0	0.0	-10.0	2.0	2.0
3600.0	75.0	582904.3	7070318.2	-15.0	0.0	-18.0	-4.0	2.0
3600.0	87.5	582906.3	7070331.1	-15.0	-2.0	-20.0	0.0	2.0
3600.0	100.0	582908.4	7070344.0	-25.0	-2.0	-26.0	2.0	2.0
3600.0	112.5	582910.9	7070354.0	-12.0	0.0	-12.0	-4.0	2.0
3600.0	125.0	582913.5	7070363.9	-12.0	-2.0	-22.0	4.0	2.0
3600.0	137.5	582916.0	7070373.9	-15.0	-2.0	-16.0	2.0	2.0
3600.0	150.0	582918.5	7070383.9	-8.0	0.0	-20.0	6.0	2.0
3600.0	162.5	582921.1	7070393.8	-15.0	2.0	-18.0	0.0	2.0
3600.0	175.0	582923.6	7070403.8	-25.0	0.0	-15.0	-8.0	2.0
3600.0	187.5	582926.2	7070413.7	-45.0	4.0	-25.0	4.0	2.0
3600.0	200.0	582928.7	7070423.7	-40.0	-3.0	-8.0	4.0	2.0
3600.0	212.5	582930.6	7070435.3	-20.0	-2.0	-10.0	-3.0	2.0
3600.0	225.0	582932.5	7070447.0	-18.0	0.0	-15.0	-2.0	2.0
3600.0	237.5	582934.4	7070458.6	-25.0	-1.0	-10.0	0.0	2.0
3600.0	250.0	582936.3	7070470.3	-9.0	-6.0	-18.0	2.0	2.0
3600.0	262.5	582938.2	7070481.9	-10.0	-2.0	-15.0	0.0	2.0
3600.0	275.0	582940.1	7070493.5	-15.0	3.0	-10.0	2.0	2.0
3600.0	287.5	582942.0	7070505.2	-25.0	0.0	-12.0	2.0	2.0
3600.0	300.0	582943.8	7070516.8	-18.0	2.0	-10.0	8.0	2.0
3600.0	312.5	582945.7	7070529.4	-18.0	-3.0	-20.0	0.0	2.0
3600.0	325.0	582947.5	7070541.9	-28.0	-6.0	-15.0	-3.0	2.0
3600.0	337.5	582949.4	7070554.5	-18.0	-4.0	-12.0	-6.0	2.0
3600.0	350.0	582951.2	7070567.0	-20.0	-2.0	-10.0	-2.0	2.0
3600.0	362.5	582953.0	7070579.6	-30.0	2.0	-10.0	4.0	2.0
3600.0	375.0	582954.9	7070592.1	-2.0	-4.0	-13.0	-1.0	2.0
3600.0	387.5	582956.7	7070604.7	-22.0	-8.0	-15.0	0.0	2.0
3600.0	400.0	582958.5	7070617.3	-13.0	3.0	-10.0	2.0	2.0
3600.0	412.5	582960.9	7070629.1	-10.0	-2.0	-10.0	4.0	2.0
3600.0	425.0	582963.3	7070640.9	-18.0	-6.0	-5.0	2.0	2.0
3600.0	437.5	582965.7	7070652.7	-25.0	0.0	-10.0	0.0	2.0
3600.0	450.0	582968.1	7070664.6	-25.0	3.0	-30.0	-3.0	2.0
3600.0	462.5	582970.5	7070676.4	-15.0	-8.0	-18.0	-2.0	2.0
3600.0	475.0	582972.9	7070688.2	-20.0	0.0	-10.0	2.0	2.0
3600.0	487.5	582975.3	7070700.0	-26.0	2.0	-12.0	0.0	2.0

3600.0	500.0	582977.7	7070711.8	-25.0	0.0	-20.0	-2.0	2.0
3600.0	512.5	582979.1	7070724.8	-15.0	-4.0	-14.0	0.0	2.0
3600.0	525.0	582980.5	7070737.7	-25.0	-2.0	-20.0	0.0	2.0
3600.0	537.5	582981.9	7070750.6	15.0	-2.0	-15.0	3.0	2.0
3600.0	550.0	582983.3	7070763.5	-18.0	-4.0	-18.0	-4.0	2.0
3600.0	562.5	582984.7	7070776.4	-20.0	-1.0	-10.0	2.0	2.0
3600.0	575.0	582986.2	7070789.3	-10.0	0.0	-8.0	0.0	2.0
3600.0	587.5	582987.6	7070802.2	-20.0	0.0	-15.0	-6.0	2.0
3600.0	600.0	582989.0	7070815.1	-5.0	-8.0	-15.0	2.0	2.0
3600.0	612.5	582991.2	7070827.0	-10.0	0.0	-5.0	-2.0	2.0
3600.0	625.0	582993.5	7070838.8	-20.0	-6.0	-15.0	-4.0	2.0
3600.0	637.5	582995.8	7070850.6	-15.0	-2.0	-15.0	0.0	2.0
3600.0	650.0	582998.1	7070862.5	-25.0	0.0	-15.0	2.0	2.0
3600.0	662.5	583000.4	7070874.3	-20.0	-8.0	-12.0	0.0	2.0
3600.0	675.0	583002.7	7070886.1	-20.0	-4.0	-10.0	2.0	2.0
3600.0	687.5	583005.0	7070898.0	-18.0	-2.0	-20.0	-6.0	2.0
3600.0	700.0	583007.3	7070909.8	-20.0	0.0	-20.0	0.0	2.0
3600.0	712.5	583009.2	7070922.2	-14.0	2.0	-15.0	2.0	2.0
3600.0	725.0	583011.1	7070934.6	-15.0	2.0	-12.0	0.0	2.0
3600.0	737.5	583013.0	7070947.0	-20.0	4.0	-5.0	2.0	2.0
3600.0	750.0	583014.9	7070959.4	-18.0	-8.0	-8.0	2.0	2.0
3600.0	762.5	583016.9	7070971.8	-15.0	4.0	-10.0	0.0	2.0
3600.0	775.0	583018.8	7070984.3	-10.0	0.0	0.0	0.0	2.0
3600.0	787.5	583020.7	7070996.7	-15.0	2.0	-15.0	-12.0	2.0
3600.0	800.0	583022.6	7071009.1	-20.0	6.0	-20.0	6.0	2.0
3600.0	812.5	583025.4	7071020.7	-10.0	-4.0	-4.0	-2.0	2.0
3600.0	825.0	583028.1	7071032.4	-15.0	0.0	-10.0	6.0	2.0
3600.0	837.5	583030.9	7071044.1	-18.0	0.0	-14.0	0.0	2.0
3600.0	850.0	583033.6	7071055.7	-25.0	-4.0	-15.0	0.0	2.0
3600.0	862.5	583036.4	7071067.4	-20.0	-2.0	-20.0	-3.0	2.0
3600.0	875.0	583039.1	7071079.1	-25.0	-6.0	-25.0	0.0	2.0
3600.0	887.5	583041.8	7071090.7	-25.0	2.0	-10.0	2.0	2.0
3600.0	900.0	583044.6	7071102.4	-40.0	-4.0	-13.0	-10.0	2.0
3600.0	912.5	583047.1	7071114.6	-27.0	-4.0	-12.0	0.0	8.0
3600.0	925.0	583049.7	7071126.7	-10.0	0.0	-6.0	0.0	-3.0
3600.0	937.5	583052.2	7071138.9	-25.0	0.0	-15.0	2.0	8.0
3600.0	950.0	583054.8	7071151.0	-25.0	2.0	-8.0	-2.0	8.0
3600.0	962.5	583057.3	7071163.2	-30.0	-6.0	-14.0	2.0	-8.0
3600.0	975.0	583059.9	7071175.3	-15.0	-8.0	-12.0	4.0	0.0
3600.0	987.5	583062.4	7071187.5	-20.0	2.0	-5.0	0.0	2.0
3600.0	1000.0	583064.9	7071199.6	-28.0	6.0	-7.0	2.0	2.0
3600.0	1012.5	583066.1	7071211.8	-25.0	-2.0	0.0	0.0	2.0
3600.0	1025.0	583067.2	7071224.0	-35.0	2.0	-5.0	-2.0	2.0
3600.0	1037.5	583068.3	7071236.1	-20.0	-4.0	-15.0	-2.0	2.0
3600.0	1050.0	583069.4	7071248.3	-25.0	-2.0	-10.0	-1.0	2.0
3600.0	1062.5	583070.6	7071260.5	-18.0	-2.0	-10.0	-10.0	2.0
3600.0	1075.0	583071.7	7071272.6	-15.0	-2.0	-2.0	4.0	2.0
3600.0	1087.5	583072.8	7071284.8	-20.0	-2.0	0.0	0.0	2.0
3600.0	1100.0	583073.9	7071297.0	-28.0	-4.0	-10.0	4.0	2.0
3600.0	1112.5	583077.2	7071308.9	-20.0	-4.0	-10.0	-4.0	0.0
3600.0	1125.0	583080.5	7071320.8	-15.0	-1.0	-8.0	-4.0	0.0
3600.0	1137.5	583083.8	7071332.7	-26.0	-10.0	-9.0	-4.0	0.0
3600.0	1150.0	583087.0	7071344.6	-28.0	-4.0	-20.0	-2.0	0.0
3600.0	1162.5	583090.3	7071356.5	-18.0	2.0	-5.0	-2.0	0.0
3600.0	1175.0	583093.6	7071368.4	-15.0	-6.0	-3.0	-3.0	0.0
3600.0	1187.5	583096.9	7071380.3	-30.0	-1.0	-12.0	-8.0	0.0
3600.0	1200.0	583100.2	7071392.3	-42.0	3.0	-20.0	6.0	0.0
3600.0	1212.5	583101.1	7071404.5	-15.0	-4.0	-15.0	-4.0	0.0
3600.0	1225.0	583102.1	7071416.8	-23.0	-4.0	-8.0	-6.0	0.0
3600.0	1237.5	583103.1	7071429.1	-18.0	-4.0	-13.0	0.0	0.0

3600.0	1250.0	583104.1	7071441.4	-33.0	-6.0	-13.0	0.0	0.0
3600.0	1262.5	583105.1	7071453.7	-16.0	-4.0	-20.0	2.0	0.0
3600.0	1275.0	583106.1	7071465.9	-15.0	-4.0	-4.0	-2.0	0.0
3600.0	1287.5	583107.0	7071478.2	-20.0	-8.0	-22.0	-8.0	0.0
3600.0	1300.0	583108.0	7071490.5	-45.0	0.0	-22.0	2.0	0.0
3600.0	1312.5	583110.0	7071502.4	-20.0	-4.0	-10.0	-4.0	0.0
3600.0	1325.0	583112.0	7071514.4	-28.0	0.0	-15.0	-1.0	0.0
3600.0	1337.5	583114.1	7071526.3	-28.0	2.0	-10.0	0.0	0.0
3600.0	1350.0	583116.1	7071538.2	-24.0	-2.0	-10.0	-8.0	0.0
3600.0	1362.5	583118.1	7071550.2	-22.0	-4.0	-8.0	0.0	0.0
3600.0	1375.0	583120.1	7071562.1	-35.0	-4.0	-12.0	4.0	0.0
3600.0	1387.5	583122.1	7071574.0	-8.0	-2.0	-22.0	-1.0	0.0
3600.0	1400.0	583124.1	7071586.0	-22.0	-2.0	-10.0	0.0	0.0
3600.0	1412.5	583125.1	7071598.2	-18.0	-3.0	-10.0	-6.0	0.0
3600.0	1425.0	583126.1	7071610.4	-10.0	-4.0	-6.0	0.0	10.0
3600.0	1437.5	583127.2	7071622.7	-13.0	-5.0	-8.0	0.0	0.0
3600.0	1450.0	583128.2	7071634.9	-20.0	-4.0	-15.0	0.0	0.0
3600.0	1462.5	583129.2	7071647.1	-15.0	0.0	-20.0	2.0	10.0
3600.0	1475.0	583130.2	7071659.4	-10.0	0.0	-18.0	2.0	0.0
3600.0	1487.5	583131.2	7071671.6	-5.0	2.0	0.0	0.0	0.0
3600.0	1500.0	583132.2	7071683.8	-12.0	-8.0	-5.0	-2.0	0.0
3600.0	1512.5	583135.9	7071695.1	-10.0	0.0	0.0	0.0	-5.0
3600.0	1525.0	583139.7	7071706.5	-10.0	-4.0	-4.0	0.0	-10.
3600.0	1537.5	583143.4	7071717.8	-10.0	-6.0	-18.0	2.0	-10.
3600.0	1550.0	583147.1	7071729.1	-33.0	-4.0	-7.0	-2.0	-10.
3600.0	1562.5	583150.8	7071740.4	-20.0	-6.0	-10.0	-2.0	0.0
3600.0	1575.0	583154.5	7071751.7	-14.0	-8.0	-6.0	2.0	5.0
3600.0	1587.5	583158.2	7071763.1	-2.0	-8.0	-10.0	0.0	0.0
3600.0	1600.0	583161.9	7071774.4	-7.0	9.0	-10.0	4.0	0.0
3600.0	1612.5	583162.8	7071787.2	-14.0	-3.0	-5.0	3.0	-10.
3600.0	1625.0	583163.8	7071800.0	-10.0	-8.0	-4.0	-2.0	10.0
3600.0	1637.5	583164.7	7071812.8	-13.0	-2.0	-17.0	4.0	10.0
3600.0	1650.0	583165.7	7071825.6	-25.0	2.0	-13.0	0.0	5.0
3600.0	1662.5	583166.7	7071838.4	-14.0	-4.0	-15.0	-12.0	6.0
3600.0	1675.0	583167.6	7071851.2	-6.0	-4.0	-4.0	-4.0	0.0
3600.0	1687.5	583168.6	7071864.0	-13.0	0.0	-8.0	-2.0	0.0
3600.0	1700.0	583169.5	7071876.8	-2.0	-4.0	-7.0	-3.0	0.0
3600.0	1712.5	583172.4	7071888.5	-7.0	-4.0	-10.0	2.0	0.0
3600.0	1725.0	583175.3	7071900.1	-14.0	-2.0	-12.0	-4.0	0.0
3600.0	1737.5	583178.2	7071911.8	-15.0	0.0	-11.0	2.0	0.0
3600.0	1750.0	583181.1	7071923.4	-13.0	-4.0	-10.0	-2.0	-2.0
3600.0	1762.5	583184.0	7071935.1	-15.0	1.0	-7.0	4.0	0.0
3600.0	1775.0	583186.9	7071946.7	-22.0	0.0	-9.0	3.0	5.0
3600.0	1787.5	583189.8	7071958.4	-14.0	-6.0	-6.0	0.0	0.0
3600.0	1800.0	583192.7	7071970.0	-10.0	-2.0	-6.0	2.0	2.0
3600.0	1812.5	583195.0	7071982.1	-9.0	-4.0	-4.0	-2.0	0.0
3600.0	1825.0	583197.3	7071994.1	-15.0	-2.0	-7.0	2.0	0.0
3600.0	1837.5	583199.7	7072006.2	-20.0	-6.0	-2.0	-3.0	-5.0
3600.0	1850.0	583202.0	7072018.2	-10.0	1.0	-10.0	-3.0	-2.0
3600.0	1862.5	583204.3	7072030.2	-7.0	-3.0	0.0	2.0	0.0
3600.0	1875.0	583206.7	7072042.3	-5.0	-2.0	-8.0	2.0	0.0
3600.0	1887.5	583209.0	7072054.3	-3.0	-2.0	-3.0	4.0	0.0
3600.0	1900.0	583211.4	7072066.4	-25.0	2.0	-6.0	-6.0	0.0
3600.0	1912.5	583213.7	7072078.9	-12.0	-8.0	-8.0	-2.0	5.0
3600.0	1925.0	583216.1	7072091.4	-12.0	-4.0	-10.0	4.0	0.0
3600.0	1937.5	583218.5	7072103.9	-12.0	2.0	-10.0	8.0	20.0
3600.0	1950.0	583220.9	7072116.4	-25.0	0.0	-5.0	2.0	15.0
3600.0	1962.5	583223.3	7072128.9	-22.0	-2.0	-5.0	-1.0	2.0
3600.0	1975.0	583225.7	7072141.4	-20.0	-4.0	-8.0	-4.0	2.0
3600.0	1987.5	583228.1	7072153.9	-36.0	0.0	0.0	-2.0	0.0

3600.0	2000.0	583230.4	7072166.4	-10.0	-4.0	-4.0	0.0	0.0
3600.0	2012.5	583231.5	7072179.2	-25.0	-8.0	-8.0	-6.0	0.0
3600.0	2025.0	583232.6	7072192.1	-9.0	-4.0	-4.0	-2.0	0.0
3600.0	2037.5	583233.7	7072204.9	-12.0	-2.0	-4.0	0.0	0.0
3600.0	2050.0	583234.8	7072217.8	-14.0	-4.0	-8.0	0.0	0.0
3600.0	2062.5	583236.0	7072230.6	-10.0	0.0	-6.0	-6.0	-3.0
3600.0	2075.0	583237.1	7072243.4	-14.0	-2.0	-6.0	-1.0	-10.
3600.0	2087.5	583238.2	7072256.3	-25.0	2.0	-5.0	8.0	-10.
3600.0	2100.0	583239.3	7072269.1	-22.0	0.0	-8.0	-4.0	-3.0
3600.0	2112.5	583243.1	7072281.6	-22.0	-4.0	-10.0	0.0	0.0
3600.0	2125.0	583247.0	7072294.1	-15.0	0.0	-11.0	6.0	15.0
3600.0	2137.5	583250.9	7072306.7	-10.0	2.0	-8.0	-4.0	2.0
3600.0	2150.0	583254.8	7072319.2	-15.0	-4.0	-7.0	2.0	0.0
3600.0	2162.5	583258.6	7072331.7	0.0	-3.0	-2.0	-2.0	-2.0
3600.0	2175.0	583262.5	7072344.2	-2.0	-8.0	-8.0	0.0	-22.
3600.0	2187.5	583266.4	7072356.7	-8.0	-2.0	3.0	3.0	50.0
3600.0	2200.0	583270.3	7072369.2	-12.0	-2.0	0.0	2.0	0.0
3600.0	2212.5	583271.0	7072380.3	2.0	-4.0	-5.0	0.0	0.0
3600.0	2225.0	583271.6	7072391.3	-1.0	-2.0	-3.0	1.0	-3.0
3600.0	2237.5	583272.3	7072402.4	2.0	-4.0	-2.0	-2.0	0.0
3600.0	2250.0	583273.0	7072413.4	2.0	-2.0	0.0	-2.0	-3.0
3600.0	2262.5	583273.7	7072424.5	-10.0	-2.0	-4.0	2.0	0.0
3800.0	200.0	583124.7	7070401.9	-18.0	-6.0	0.0	0.0	3.0
3800.0	212.5	583126.7	7070414.3	-20.0	0.0	-12.0	4.0	5.0
3800.0	225.0	583128.6	7070426.8	-20.0	-4.0	-30.0	-3.0	3.0
3800.0	237.5	583130.6	7070439.2	-14.0	-4.0	-20.0	0.0	5.0
3800.0	250.0	583132.5	7070451.6	-14.0	-4.0	-8.0	-6.0	5.0
3800.0	262.5	583134.5	7070464.0	-11.0	-14.0	-12.0	-4.0	3.0
3800.0	275.0	583136.4	7070476.4	-10.0	-2.0	-10.0	-1.0	5.0
3800.0	287.5	583138.4	7070488.8	-26.0	-4.0	-20.0	-2.0	5.0
3800.0	300.0	583140.3	7070501.3	-20.0	2.0	-40.0	0.0	8.0
3800.0	312.5	583142.9	7070512.5	-12.0	-4.0	-8.0	0.0	8.0
3800.0	325.0	583145.5	7070523.8	-15.0	-2.0	-5.0	0.0	8.0
3800.0	337.5	583148.2	7070535.0	-20.0	2.0	0.0	0.0	8.0
3800.0	350.0	583150.8	7070546.3	-30.0	-8.0	-25.0	-4.0	8.0
3800.0	362.5	583153.4	7070557.6	-5.0	-2.0	-14.0	-6.0	2.0
3800.0	375.0	583156.0	7070568.8	-25.0	-2.0	-14.0	-4.0	2.0
3800.0	387.5	583158.6	7070580.1	-18.0	4.0	0.0	0.0	2.0
3800.0	400.0	583161.3	7070591.3	-15.0	5.0	-30.0	4.0	2.0
3800.0	412.5	583162.5	7070603.5	-20.0	-8.0	-10.0	-2.0	2.0
3800.0	425.0	583163.7	7070615.6	-15.0	-3.0	-10.0	4.0	2.0
3800.0	437.5	583165.0	7070627.7	-9.0	2.0	15.0	1.0	2.0
3800.0	450.0	583166.2	7070639.8	-20.0	-8.0	-10.0	-2.0	2.0
3800.0	462.5	583167.5	7070651.9	-8.0	-6.0	-15.0	-8.0	2.0
3800.0	475.0	583168.7	7070664.0	-10.0	-3.0	-15.0	0.0	2.0
3800.0	487.5	583169.9	7070676.1	-10.0	-6.0	-22.0	-8.0	2.0
3800.0	500.0	583171.2	7070688.2	-35.0	0.0	-40.0	-8.0	2.0
3800.0	512.5	583174.0	7070700.8	-25.0	-10.0	-50.0	-2.0	2.0
3800.0	525.0	583176.9	7070713.5	-2.0	-2.0	40.0	0.0	2.0
3800.0	537.5	583179.8	7070726.1	-20.0	-4.0	-30.0	-2.0	2.0
3800.0	550.0	583182.6	7070738.7	-20.0	-6.0	-35.0	-2.0	2.0
3800.0	562.5	583185.5	7070751.4	-45.0	-6.0	-38.0	0.0	2.0
3800.0	575.0	583188.3	7070764.0	-20.0	-6.0	-25.0	-2.0	0.0
3800.0	587.5	583191.2	7070776.6	-30.0	-8.0	-20.0	-6.0	2.0
3800.0	600.0	583194.1	7070789.3	-25.0	-8.0	-30.0	-2.0	2.0
3800.0	612.5	583197.1	7070803.4	-20.0	1.0	-18.0	2.0	2.0
3800.0	625.0	583200.1	7070817.5	-20.0	-1.0	8.0	0.0	2.0
3800.0	637.5	583203.2	7070831.6	-25.0	2.0	-45.0	6.0	2.0
3800.0	650.0	583206.2	7070845.7	-32.0	2.0	-34.0	2.0	2.0
3800.0	662.5	583209.3	7070859.8	-25.0	-2.0	-35.0	2.0	2.0

3800.0	675.0	583212.3	7070873.9	-4.0	-2.0	-42.0	0.0	2.0
3800.0	687.5	583215.3	7070888.0	-22.0	-1.0	-32.0	0.0	2.0
3800.0	700.0	583218.4	7070902.1	-35.0	2.0	-50.0	3.0	2.0
3800.0	712.5	583217.7	7070912.6	-28.0	-4.0	-26.0	-2.0	2.0
3800.0	725.0	583217.1	7070923.1	-32.0	-4.0	-35.0	-4.0	2.0
3800.0	737.5	583216.5	7070933.6	-30.0	-8.0	-20.0	-4.0	2.0
3800.0	750.0	583215.9	7070944.1	-38.0	-2.0	-50.0	-2.0	2.0
3800.0	762.5	583215.2	7070954.6	-30.0	-4.0	-57.0	-4.0	2.0
3800.0	775.0	583214.6	7070965.1	-10.0	-4.0	-55.0	-4.0	2.0
3800.0	787.5	583214.0	7070975.6	-40.0	2.0	37.0	0.0	0.0
3800.0	800.0	583213.3	7070986.1	-44.0	0.0	-45.0	0.0	2.0
3800.0	812.5	583218.4	7070997.4	-24.0	-4.0	-24.0	-2.0	2.0
3800.0	825.0	583223.5	7071008.8	-25.0	-6.0	-16.0	2.0	2.0
3800.0	837.5	583228.6	7071020.1	-4.0	-10.0	-10.0	-8.0	2.0
3800.0	850.0	583233.7	7071031.5	-34.0	-6.0	-30.0	4.0	2.0
3800.0	862.5	583238.8	7071042.8	-35.0	-2.0	-30.0	4.0	2.0
3800.0	875.0	583243.9	7071054.2	-15.0	0.0	-25.0	4.0	2.0
3800.0	887.5	583249.0	7071065.5	-20.0	-4.0	-30.0	-2.0	2.0
3800.0	900.0	583254.1	7071076.9	-37.0	0.0	-30.0	0.0	2.0
3800.0	912.5	583253.8	7071087.9	-30.0	4.0	38.0	-4.0	2.0
3800.0	925.0	583253.5	7071098.9	-28.0	1.0	-15.0	2.0	2.0
3800.0	937.5	583253.2	7071109.9	-25.0	-4.0	-10.0	-2.0	2.0
3800.0	950.0	583252.9	7071120.9	-32.0	0.0	-33.0	1.0	2.0
3800.0	962.5	583252.6	7071131.9	-23.0	-1.0	-14.0	4.0	2.0
3800.0	975.0	583252.3	7071142.9	-33.0	1.0	-35.0	4.0	2.0
3800.0	987.5	583252.0	7071153.9	-36.0	-4.0	-25.0	-4.0	2.0
3800.0	1000.0	583251.6	7071164.9	-30.0	1.0	-14.0	-2.0	2.0
3800.0	1012.5	583255.4	7071175.8	-5.0	-2.0	-15.0	-8.0	2.0
3800.0	1025.0	583259.2	7071186.8	-12.0	-12.0	-40.0	-6.0	2.0
3800.0	1037.5	583262.9	7071197.8	-25.0	-2.0	-35.0	0.0	2.0
3800.0	1050.0	583266.7	7071208.8	-34.0	-4.0	-15.0	4.0	2.0
3800.0	1062.5	583270.4	7071219.7	-15.0	-8.0	-30.0	0.0	2.0
3800.0	1075.0	583274.2	7071230.7	-10.0	-6.0	-30.0	-4.0	2.0
3800.0	1087.5	583277.9	7071241.7	0.0	-8.0	18.0	-2.0	2.0
3800.0	1100.0	583281.7	7071252.7	-50.0	2.0	-47.0	-2.0	2.0
3800.0	1112.5	583282.9	7071265.5	-32.0	-4.0	30.0	2.0	2.0
3800.0	1125.0	583284.1	7071278.2	-26.0	-8.0	-30.0	-4.0	2.0
3800.0	1137.5	583285.3	7071291.0	-40.0	-8.0	-42.0	0.0	2.0
3800.0	1150.0	583286.5	7071303.8	-30.0	-2.0	-45.0	-2.0	2.0
3800.0	1162.5	583287.7	7071316.6	-28.0	-8.0	-25.0	-8.0	2.0
3800.0	1175.0	583288.9	7071329.4	-10.0	-8.0	-55.0	-9.0	2.0
3800.0	1187.5	583290.1	7071342.2	0.0	0.0	-40.0	2.0	2.0
3800.0	1200.0	583291.3	7071355.0	25.0	8.0	3.0	9.0	2.0
3800.0	1212.5	583293.4	7071366.6	-40.0	-6.0	-15.0	-8.0	2.0
3800.0	1225.0	583295.5	7071378.2	-20.0	-6.0	-20.0	-2.0	2.0
3800.0	1237.5	583297.6	7071389.8	-12.0	-4.0	-34.0	-8.0	2.0
3800.0	1250.0	583299.7	7071401.4	-22.0	-6.0	-25.0	-8.0	2.0
3800.0	1262.5	583301.8	7071413.0	-4.0	-4.0	-30.0	-4.0	2.0
3800.0	1275.0	583303.9	7071424.6	-10.0	-8.0	-50.0	-4.0	2.0
3800.0	1287.5	583305.9	7071436.1	-4.0	-12.0	-12.0	-8.0	2.0
3800.0	1300.0	583308.0	7071447.7	-14.0	2.0	-22.0	4.0	2.0
3800.0	1312.5	583310.4	7071460.2	-7.0	-8.0	-32.0	-6.0	2.0
3800.0	1325.0	583312.8	7071472.6	-6.0	0.0	-30.0	-6.0	2.0
3800.0	1337.5	583315.3	7071485.0	-7.0	-2.0	-6.0	0.0	2.0
3800.0	1350.0	583317.7	7071497.5	15.0	-4.0	-30.0	0.0	2.0
3800.0	1362.5	583320.1	7071509.9	-2.0	-1.0	-35.0	-4.0	2.0
3800.0	1375.0	583322.5	7071522.3	-2.0	-8.0	-8.0	0.0	2.0
3800.0	1387.5	583324.9	7071534.7	-12.0	-8.0	-24.0	-6.0	2.0
3800.0	1400.0	583327.3	7071547.2	-25.0	18.0	-26.0	-6.0	0.0
3800.0	1412.5	583329.6	7071558.9	-15.0	-4.0	-35.0	-8.0	0.0

3800.0	1425.0	583332.0	7071570.6	-10.0	-6.0	-20.0	-8.0	0.0
3800.0	1437.5	583334.3	7071582.3	1.0	8.0	-4.0	-8.0	0.0
3800.0	1450.0	583336.7	7071594.0	-7.0	-8.0	-27.0	0.0	0.0
3800.0	1462.5	583339.0	7071605.8	-5.0	-14.0	-2.0	0.0	0.0
3800.0	1475.0	583341.3	7071617.5	0.0	-4.0	-10.0	-4.0	0.0
3800.0	1487.5	583343.7	7071629.2	-4.0	-4.0	-5.0	0.0	2.0
3800.0	1500.0	583346.0	7071640.9	-4.0	-6.0	-25.0	-4.0	2.0
3800.0	1512.5	583347.7	7071653.1	4.0	-6.0	-15.0	-2.0	2.0
3800.0	1525.0	583349.5	7071665.2	-20.0	2.0	-15.0	-8.0	2.0
3800.0	1537.5	583351.2	7071677.4	-18.0	-8.0	-14.0	-8.0	2.0
3800.0	1550.0	583352.9	7071689.6	-35.0	-6.0	-35.0	-6.0	0.0
3800.0	1562.5	583354.6	7071701.7	-23.0	-4.0	-28.0	0.0	0.0
3800.0	1575.0	583356.3	7071713.9	-24.0	-4.0	-40.0	-8.0	0.0
3800.0	1587.5	583358.1	7071726.0	-5.0	-6.0	-35.0	-8.0	0.0
3800.0	1600.0	583359.8	7071738.2	-44.0	-4.0	-32.0	0.0	0.0
3800.0	1612.5	583362.3	7071750.3	-19.0	-4.0	-38.0	-8.0	0.0
3800.0	1625.0	583364.9	7071762.4	-20.0	-4.0	-25.0	0.0	0.0
3800.0	1637.5	583367.4	7071774.5	-25.0	-2.0	-17.0	-4.0	2.0
3800.0	1650.0	583370.0	7071786.7	-6.0	-8.0	-16.0	-2.0	8.0
3800.0	1662.5	583372.5	7071798.8	-25.0	-6.0	-37.0	0.0	0.0
3800.0	1675.0	583375.1	7071810.9	-29.0	-2.0	-16.0	-3.0	0.0
3800.0	1687.5	583377.6	7071823.0	-23.0	-6.0	-15.0	-8.0	0.0
3800.0	1700.0	583380.2	7071835.1	-23.0	0.0	-44.0	0.0	0.0
3800.0	1712.5	583381.6	7071847.2	-12.0	-6.0	-5.0	-2.0	0.0
3800.0	1725.0	583383.1	7071859.4	-10.0	-8.0	-37.0	-2.0	-2.0
3800.0	1737.5	583384.6	7071871.5	-14.0	0.0	-22.0	-4.0	10.0
3800.0	1750.0	583386.1	7071883.7	-35.0	0.0	-12.0	6.0	0.0
3800.0	1762.5	583387.5	7071895.8	-14.0	-10.0	-10.0	6.0	3.0
3800.0	1775.0	583389.0	7071908.0	-10.0	-4.0	-22.0	2.0	0.0
3800.0	1787.5	583390.5	7071920.1	40.0	2.0	30.0	4.0	-50.
3800.0	1800.0	583392.0	7071932.2	-22.0	-4.0	-6.0	-3.0	3.0
3800.0	1812.5	583393.0	7071944.1	-10.0	-4.0	-10.0	-4.0	5.0
3800.0	1825.0	583394.0	7071955.9	12.0	-4.0	-10.0	-2.0	0.0
3800.0	1837.5	583395.0	7071967.7	-22.0	-8.0	0.0	-1.0	10.0
3800.0	1850.0	583396.0	7071979.5	-2.0	-8.0	-16.0	-10.0	10.0
3800.0	1862.5	583397.1	7071991.4	-12.0	0.0	-30.0	-6.0	0.0
3800.0	1875.0	583398.1	7072003.2	-12.0	-6.0	-12.0	-8.0	0.0
3800.0	1887.5	583399.1	7072015.0	-15.0	-4.0	-20.0	-4.0	0.0
3800.0	1900.0	583400.1	7072026.8	-20.0	-2.0	-25.0	-4.0	0.0
3800.0	1912.5	583403.6	7072038.9	-13.0	-2.0	-5.0	-1.0	0.0
3800.0	1925.0	583407.0	7072051.0	-14.0	-10.0	-9.0	-4.0	0.0
3800.0	1937.5	583410.5	7072063.1	-12.0	-4.0	-14.0	-9.0	0.0
3800.0	1950.0	583413.9	7072075.2	-22.0	-22.0	-25.0	-9.0	-10.
3800.0	1962.5	583417.4	7072087.3	-17.0	-4.0	-22.0	-8.0	-10.
3800.0	1975.0	583420.8	7072099.3	-20.0	-12.0	-10.0	-4.0	-10.
3800.0	1987.5	583424.3	7072111.4	-8.0	-12.0	-25.0	-6.0	10.0
3800.0	2000.0	583427.7	7072123.5	-17.0	-4.0	-30.0	0.0	-1.0
3800.0	2012.5	583429.9	7072135.6	0.0	-12.0	-12.0	-8.0	20.0
3800.0	2025.0	583432.0	7072147.7	-35.0	-4.0	-20.0	0.0	
3800.0	2037.5	583434.1	7072159.8	-12.0	-6.0	-50.0	-6.0	0.0
3800.0	2050.0	583436.3	7072171.9	-5.0	-2.0	-45.0	-12.0	0.0
3800.0	2062.5	583438.4	7072183.9	-15.0	-4.0	-13.0	-8.0	0.0
3800.0	2075.0	583440.5	7072196.0	-8.0	-10.0	-15.0	2.0	0.0
3800.0	2087.5	583442.6	7072208.1	-10.0	-4.0	-20.0	-20.0	0.0
3800.0	2100.0	583444.8	7072220.2	-23.0	-9.0	-20.0	-8.0	0.0
3800.0	2112.5	583446.5	7072233.2	-24.0	-10.0	-18.0	-6.0	0.0
3800.0	2125.0	583448.2	7072246.1	-35.0	-10.0	-44.0	-10.0	0.0
3800.0	2137.5	583449.9	7072259.1	-25.0	-10.0	-22.0	-2.0	0.0
3800.0	2150.0	583451.7	7072272.0	-18.0	-12.0	-30.0	-3.0	-10.
3800.0	2162.5	583453.4	7072285.0	-50.0	-6.0	-40.0	-10.0	0.0

3800.0	2175.0	583455.1	7072297.9	-30.0	-4.0	-30.0	0.0	0.0
3800.0	2187.5	583456.8	7072310.9	-25.0	-4.0	-43.0	-6.0	25.0
3800.0	2200.0	583458.6	7072323.8	-28.0	-4.0	-8.0	-12.0	0.0
3800.0	2212.5	583461.1	7072336.0	-25.0	-12.0	-40.0	-4.0	0.0
3800.0	2225.0	583463.7	7072348.3	-20.0	-6.0	-40.0	2.0	0.0
3800.0	2237.5	583466.3	7072360.5	-28.0	-3.0	-40.0	0.0	0.0
3800.0	2250.0	583468.9	7072372.8	-36.0	-6.0	-18.0	-4.0	0.0
3800.0	2262.5	583471.4	7072385.0	-19.0	-8.0	-80.0	-6.0	-3.0
3800.0	2275.0	583474.0	7072397.2	-15.0	-9.0	-40.0	-4.0	15.0
3800.0	2287.5	583476.6	7072409.5	-30.0	-10.0	-30.0	-4.0	-20.0
3800.0	2300.0	583479.2	7072421.7	-45.0	-6.0	-25.0	-2.0	-10.0
3800.0	2312.5	583482.5	7072433.8	-15.0	-10.0	-35.0	-9.0	-8.0
3800.0	2325.0	583485.7	7072445.9	-10.0	-12.0	-33.0	0.0	-15.0
3800.0	2337.5	583489.0	7072458.0	0.0	-1.0	-35.0	-4.0	45.0
3800.0	2350.0	583492.3	7072470.1	-13.0	-2.0	-30.0	-4.0	5.0
3800.0	2362.5	583495.5	7072482.2	-30.0	-9.0	-13.0	-8.0	5.0
3800.0	2375.0	583498.8	7072494.3	1.0	-1.0	-22.0	2.0	0.0
3800.0	2387.5	583502.1	7072506.4	0.0	-9.0	-15.0	-1.0	0.0
3800.0	2400.0	583505.3	7072518.5	14.0	9.0	-10.0	4.0	0.0
3800.0	2412.5	583505.7	7072531.4	-5.0	-4.0	-5.0	-4.0	0.0
3800.0	2425.0	583506.1	7072544.3	10.0	4.0	-20.0	2.0	-10.0
3800.0	2437.5	583506.5	7072557.2	-10.0	-9.0	-38.0	-4.0	0.0
4000.0	0.0	583309.7	7070355.4	12.0	22.0	0.0	8.0	0.0
4000.0	12.5	583313.7	7070362.8	32.0	10.0	4.0	-4.0	0.0
4000.0	25.0	583317.7	7070370.3	55.0	40.0	5.0	11.0	0.0
4000.0	37.5	583321.7	7070377.8	70.0	12.0	4.0	-5.0	2.0
4000.0	50.0	583325.7	7070385.3	-7.0	11.0	-11.0	0.0	2.0
4000.0	62.5	583326.2	7070397.0	-70.0	-5.0	-15.0	15.0	2.0
4000.0	75.0	583326.7	7070408.6	40.0	12.0	-5.0	-5.0	2.0
4000.0	87.5	583327.2	7070420.3	40.0	4.0	37.0	12.0	2.0
4000.0	100.0	583327.8	7070432.0	50.0	-5.0	0.0	-10.0	2.0
4000.0	112.5	583329.9	7070444.4	-45.0	0.0	-10.0	12.0	2.0
4000.0	125.0	583332.1	7070456.9	32.0	24.0	4.0	2.0	2.0
4000.0	137.5	583334.2	7070469.4	37.0	21.0	2.0	22.0	0.0
4000.0	150.0	583336.3	7070481.9	20.0	20.0	28.0	12.0	0.0
4000.0	162.5	583338.9	7070490.7	15.0	11.0	-30.0	21.0	0.0
4000.0	175.0	583341.5	7070499.6	34.0	-20.0	14.0	12.0	0.0
4000.0	187.5	583344.1	7070508.4	27.0	10.0	-8.0	12.0	0.0
4000.0	200.0	583346.7	7070517.3	90.0	20.0	10.0	-5.0	0.0
4000.0	212.5	583347.4	7070529.8	86.0	12.0	25.0	0.0	0.0
4000.0	225.0	583348.1	7070542.4	80.0	26.0	32.0	0.0	0.0
4000.0	237.5	583348.7	7070555.0	50.0	23.0	-45.0	12.0	5.0
4000.0	250.0	583349.4	7070567.5	76.0	8.0	-4.0	11.0	15.0
4000.0	262.5	583349.9	7070575.6	35.0	24.0	-12.0	2.0	15.0
4000.0	275.0	583350.5	7070583.6	50.0	35.0	-15.0	11.0	25.0
4000.0	287.5	583351.0	7070591.6	30.0	10.0	-18.0	-10.0	12.0
4000.0	300.0	583351.6	7070599.7	0.0	0.0	-10.0	-10.0	22.0
4000.0	312.5	583357.0	7070610.5	35.0	22.0	-20.0	-11.0	30.0
4000.0	325.0	583362.5	7070621.4	20.0	22.0	-27.0	-18.0	30.0
4000.0	337.5	583368.0	7070632.3	-20.0	12.0	-25.0	-8.0	15.0
4000.0	350.0	583373.5	7070643.2	55.0	-27.0	-25.0	5.0	8.0
4000.0	362.5	583376.4	7070652.9	40.0	18.0	-30.0	-8.0	12.0
4000.0	375.0	583379.2	7070662.6	46.0	-11.0	-20.0	-10.0	15.0
4000.0	387.5	583382.0	7070672.3	15.0	18.0	-16.0	18.0	25.0
4000.0	400.0	583384.8	7070682.0	60.0	-27.0	-30.0	8.0	20.0
4000.0	412.5	583385.1	7070689.2	35.0	30.0	-20.0	15.0	25.0
4000.0	425.0	583385.4	7070696.4	34.0	10.0	-36.0	-10.0	22.0
4000.0	437.5	583385.7	7070703.6	-10.0	18.0	-28.0	-10.0	22.0
4000.0	450.0	583386.0	7070710.8	40.0	30.0	-5.0	5.0	20.0
4000.0	462.5	583387.8	7070724.1	15.0	12.0	-20.0	-10.0	22.0

4000.0	475.0	583389.6	7070737.5	30.0	0.0	-20.0	-16.0	16.0
4000.0	487.5	583391.5	7070750.9	40.0	22.0	0.0	2.0	12.0
4000.0	500.0	583393.3	7070764.3	5.0	10.0	0.0	0.0	15.0
4000.0	512.5	583390.1	7070773.1	40.0	8.0	-5.0	2.0	13.0
4000.0	525.0	583387.0	7070782.0	0.0	12.0	10.0	10.0	13.0
4000.0	537.5	583383.8	7070790.9	50.0	30.0	0.0	4.0	10.0
4000.0	550.0	583380.7	7070799.7	80.0	-20.0	-10.0	0.0	15.0
4000.0	562.5	583378.7	7070813.2	45.0	5.0	-20.0	5.0	10.0
4000.0	575.0	583376.7	7070826.7	50.0	5.0	0.0	-8.0	0.0
4000.0	587.5	583374.8	7070840.2	70.0	32.0	-10.0	0.0	0.0
4000.0	600.0	583372.8	7070853.7	10.0	10.0	5.0	5.0	0.0
4000.0	612.5	583371.7	7070862.9	50.0	12.0	45.0	15.0	0.0
4000.0	625.0	583370.5	7070872.2	70.0	-30.0	5.0	2.0	0.0
4000.0	637.5	583369.4	7070881.4	15.0	18.0	0.0	8.0	0.0
4000.0	650.0	583368.2	7070890.6	35.0	-10.0	-8.0	-8.0	0.0
4000.0	662.5	583371.8	7070901.1	10.0	10.0	0.0	0.0	0.0
4000.0	675.0	583375.3	7070911.5	70.0	0.0	-10.0	-2.0	0.0
4000.0	687.5	583378.8	7070921.9	35.0	0.0	-5.0	2.0	0.0
4000.0	700.0	583382.3	7070932.4	10.0	5.0	-5.0	5.0	0.0
4000.0	712.5	583392.2	7070935.8	-5.0	20.0	-10.0	12.0	0.0
4000.0	725.0	583402.2	7070939.2	0.0	0.0	-5.0	8.0	0.0
4000.0	737.5	583412.1	7070942.5	25.0	20.0	-5.0	-10.0	0.0
4000.0	750.0	583422.0	7070945.9	40.0	5.0	-5.0	-5.0	0.0
4000.0	762.5	583427.3	7070952.9	10.0	0.0	-10.0	-8.0	0.0
4000.0	775.0	583432.6	7070959.9	55.0	-22.0	-15.0	10.0	0.0
4000.0	787.5	583437.9	7070966.9	60.0	-10.0	10.0	5.0	0.0
4000.0	800.0	583443.1	7070973.9	80.0	-20.0	-20.0	5.0	0.0
4000.0	812.5	583442.7	7070980.7	-80.0	-10.0	-5.0	12.0	0.0
4000.0	825.0	583442.2	7070987.5	30.0	30.0	-10.0	10.0	0.0
4000.0	837.5	583441.8	7070994.3	10.0	0.0	-20.0	0.0	0.0
4000.0	850.0	583441.3	7071001.1	35.0	0.0	-20.0	-10.0	0.0
4000.0	862.5	583442.9	7071015.5	0.0	-10.0	-10.0	5.0	0.0
4000.0	875.0	583444.4	7071029.8	30.0	28.0	0.0	-5.0	0.0
4000.0	887.5	583446.0	7071044.2	30.0	0.0	10.0	-8.0	0.0
4000.0	900.0	583447.6	7071058.6	60.0	40.0	-10.0	-8.0	0.0
4000.0	912.5	583439.1	7071064.9	8.0	10.0	-20.0	-4.0	0.0
4000.0	925.0	583430.6	7071071.3	0.0	10.0	10.0	0.0	0.0
4000.0	937.5	583422.2	7071077.6	0.0	20.0	-10.0	-5.0	0.0
4000.0	950.0	583413.7	7071084.0	80.0	40.0	0.0	10.0	0.0
4000.0	962.5	583420.0	7071099.7	5.0	20.0	0.0	18.0	20.0
4000.0	975.0	583426.3	7071115.5	-5.0	-2.0	-2.0	2.0	0.0
4000.0	987.5	583432.6	7071131.2	-10.0	-8.0	-5.0	0.0	0.0
4000.0	1000.0	583438.8	7071147.0	5.0	20.0	10.0	-2.0	0.0
4000.0	1012.5	583441.6	7071153.2	30.0	-10.0	0.0	20.0	0.0
4000.0	1025.0	583444.3	7071159.3	22.0	20.0	-15.0	-10.0	0.0
4000.0	1037.5	583447.1	7071165.5	20.0	12.0	-5.0	-5.0	0.0
4000.0	1050.0	583449.8	7071171.6	0.0	20.0	5.0	-8.0	0.0
4000.0	1062.5	583454.3	7071188.3	30.0	20.0	5.0	15.0	0.0
4000.0	1075.0	583458.7	7071204.9	10.0	5.0	5.0	-10.0	0.0
4000.0	1087.5	583463.2	7071221.5	40.0	-7.0	15.0	-2.0	0.0
4000.0	1100.0	583467.7	7071238.2	10.0	5.0	-10.0	5.0	0.0
4000.0	1112.5	583464.9	7071249.0	55.0	24.0	26.0	5.0	0.0
4000.0	1125.0	583462.0	7071259.8	55.0	20.0	-5.0	2.0	0.0
4000.0	1137.5	583459.2	7071270.6	35.0	12.0	0.0	2.0	0.0
4000.0	1150.0	583456.4	7071281.4	20.0	-5.0	-5.0	-2.0	0.0
4000.0	1162.5	583458.3	7071290.3	45.0	5.0	0.0	2.0	0.0
4000.0	1175.0	583460.2	7071299.1	-30.0	-12.0	0.0	8.0	0.0
4000.0	1187.5	583462.0	7071308.0	35.0	10.0	0.0	5.0	0.0
4000.0	1200.0	583463.9	7071316.9	-5.0	-15.0	-10.0	4.0	0.0
4000.0	1212.5	583469.3	7071325.1	-10.0	-8.0	4.0	0.0	0.0

4000.0	1225.0	583474.6	7071333.3	-30.0	-10.0	0.0	8.0	0.0
4000.0	1237.5	583480.0	7071341.5	20.0	10.0	0.0	-8.0	0.0
4000.0	1250.0	583485.3	7071349.7	35.0	-2.0	-5.0	-2.0	0.0
4000.0	1262.5	583483.3	7071356.6	25.0	20.0	5.0	0.0	0.0
4000.0	1275.0	583481.3	7071363.4	18.0	-20.0	10.0	8.0	0.0
4000.0	1287.5	583479.2	7071370.3	10.0	40.0	0.0	28.0	0.0
4000.0	1300.0	583477.2	7071377.2	0.0	0.0	10.0	12.0	0.0
4000.0	1300.0	583487.1	7071400.8	0.0	0.0	10.0	12.0	0.0
4000.0	1312.5	583475.1	7071384.1	0.0	5.0	-10.0	12.0	0.0
4000.0	1312.5	583487.8	7071411.4	0.0	5.0	-10.0	12.0	0.0
4000.0	1325.0	583488.5	7071422.1	40.0	4.0	35.0	10.0	0.0
4000.0	1337.5	583489.2	7071432.7	35.0	40.0	40.0	4.0	0.0
4000.0	1350.0	583489.8	7071443.3	30.0	25.0	10.0	25.0	0.0
4000.0	1362.5	583490.4	7071453.7	50.0	10.0	35.0	25.0	0.0
4000.0	1375.0	583490.9	7071464.0	40.0	28.0	30.0	0.0	0.0
4000.0	1387.5	583491.4	7071474.4	35.0	12.0	40.0	35.0	0.0
4000.0	1400.0	583491.9	7071484.8	50.0	0.0	45.0	-40.0	0.0
4000.0	1412.5	583497.3	7071499.4	30.0	-5.0	35.0	20.0	0.0
4000.0	1425.0	583502.7	7071514.1	30.0	32.0	40.0	30.0	0.0
4000.0	1437.5	583508.0	7071528.8	40.0	0.0	40.0	-10.0	0.0
4000.0	1450.0	583513.4	7071543.5	55.0	32.0	30.0	14.0	0.0
4000.0	1462.5	583513.8	7071552.6	10.0	32.0	45.0	35.0	0.0
4000.0	1475.0	583514.3	7071561.7	25.0	10.0	40.0	40.0	0.0
4000.0	1487.5	583514.8	7071570.8	25.0	0.0	35.0	32.0	0.0
4000.0	1500.0	583515.3	7071579.9	50.0	40.0	45.0	35.0	0.0
4000.0	1512.5	583517.8	7071592.7	25.0	12.0	60.0	30.0	0.0
4000.0	1525.0	583520.2	7071605.4	20.0	30.0	25.0	30.0	0.0
4000.0	1537.5	583522.7	7071618.1	25.0	15.0	55.0	-20.0	0.0
4000.0	1550.0	583525.2	7071630.8	45.0	40.0	30.0	38.0	0.0
4000.0	1562.5	583524.0	7071643.8	25.0	30.0	60.0	40.0	0.0
4000.0	1575.0	583522.9	7071656.7	30.0	30.0	50.0	-30.0	0.0
4000.0	1587.5	583521.7	7071669.6	40.0	20.0	55.0	20.0	0.0
4000.0	1600.0	583520.5	7071682.5	40.0	25.0	20.0	25.0	0.0
4000.0	1612.5	583522.4	7071694.8	40.0	12.0	35.0	30.0	0.0
4000.0	1625.0	583524.3	7071707.1	30.0	32.0	34.0	25.0	0.0
4000.0	1637.5	583526.1	7071719.4	70.0	20.0	30.0	-20.0	0.0
4000.0	1650.0	583528.0	7071731.7	40.0	40.0	33.0	14.0	0.0
4000.0	1662.5	583532.6	7071744.0	35.0	-20.0	43.0	-30.0	0.0
4000.0	1675.0	583537.3	7071756.4	25.0	25.0	30.0	38.0	0.0
4000.0	1687.5	583542.0	7071768.8	18.0	35.0	5.0	0.0	0.0
4000.0	1700.0	583546.7	7071781.2	25.0	30.0	10.0	34.0	0.0
4000.0	1712.5	583547.9	7071793.2	25.0	-4.0	30.0	40.0	0.0
4000.0	1725.0	583549.2	7071805.3	20.0	18.0	30.0	10.0	0.0
4000.0	1737.5	583550.4	7071817.3	50.0	0.0	50.0	-10.0	0.0
4000.0	1750.0	583551.6	7071829.3	22.0	0.0	30.0	22.0	0.0
4000.0	1762.5	583552.5	7071841.2	35.0	8.0	45.0	-28.0	0.0
4000.0	1775.0	583553.3	7071853.0	30.0	8.0	55.0	40.0	0.0
4000.0	1787.5	583554.2	7071864.9	20.0	42.0	35.0	12.0	0.0
4000.0	1800.0	583555.0	7071876.7	30.0	25.0	35.0	25.0	-25.
4000.0	1812.5	583558.8	7071888.2	40.0	35.0	60.0	-30.0	10.0
4000.0	1825.0	583562.6	7071899.8	20.0	25.0	20.0	-10.0	10.0
4000.0	1837.5	583566.4	7071911.3	15.0	10.0	35.0	-15.0	-20.
4000.0	1850.0	583570.2	7071922.9	20.0	25.0	20.0	30.0	-15.
4000.0	1862.5	583572.1	7071933.7	20.0	2.0	15.0	30.0	-17.
4000.0	1875.0	583574.0	7071944.5	22.0	20.0	30.0	35.0	-15.
4000.0	1887.5	583576.0	7071955.3	10.0	15.0	25.0	42.0	0.0
4000.0	1900.0	583577.9	7071966.2	30.0	26.0	45.0	2.0	0.0
4000.0	1912.5	583578.9	7071978.8	25.0	0.0	15.0	-30.0	0.0
4000.0	1925.0	583579.9	7071991.4	12.0	12.0	25.0	10.0	0.0
4000.0	1937.5	583580.9	7072004.1	12.0	25.0	10.0	0.0	0.0

4000.0	1950.0	583581.8	7072016.7	10.0	42.0	30.0	0.0	0.0
4000.0	1962.5	583584.4	7072030.2	22.0	-5.0	15.0	-10.0	0.0
4000.0	1975.0	583586.9	7072043.8	35.0	-20.0	35.0	5.0	0.0
4000.0	1987.5	583589.4	7072057.3	30.0	-18.0	30.0	42.0	0.0
4000.0	2000.0	583591.9	7072070.8	30.0	-20.0	45.0	12.0	0.0
4000.0	2012.5	583596.8	7072081.6	26.0	10.0	55.0	-10.0	-10.
4000.0	2025.0	583601.7	7072092.4	35.0	36.0	65.0	15.0	0.0
4000.0	2037.5	583606.6	7072103.2	50.0	42.0	75.0	10.0	-45.
4000.0	2050.0	583611.4	7072114.0	20.0	36.0	60.0	-28.0	0.0
4000.0	2062.5	583610.7	7072127.7	38.0	32.0	70.0	-30.0	-30.
4000.0	2075.0	583609.9	7072141.5	32.0	30.0	45.0	32.0	0.0
4000.0	2087.5	583609.2	7072155.2	38.0	42.0	50.0	-12.0	0.0
4000.0	2100.0	583608.4	7072169.0	35.0	-40.0	35.0	8.0	0.0
4000.0	2112.5	583611.2	7072179.7	25.0	15.0	24.0	12.0	0.0
4000.0	2125.0	583614.0	7072190.4	34.0	-5.0	30.0	-28.0	0.0
4000.0	2137.5	583616.8	7072201.0	5.0	40.0	25.0	30.0	0.0
4000.0	2150.0	583619.5	7072211.7	30.0	-34.0	-30.0	-24.0	0.0
4000.0	2162.5	583623.1	7072226.2	40.0	34.0	44.0	34.0	0.0
4000.0	2175.0	583626.6	7072240.7	40.0	20.0	65.0	12.0	0.0
4000.0	2187.5	583630.2	7072255.2	20.0	38.0	35.0	26.0	0.0
4000.0	2200.0	583633.8	7072269.7	25.0	30.0	33.0	30.0	0.0
4000.0	2212.5	583637.2	7072282.3	26.0	15.0	40.0	20.0	0.0
4000.0	2225.0	583640.6	7072294.9	55.0	38.0	45.0	2.0	0.0
4000.0	2237.5	583644.1	7072307.5	30.0	28.0	70.0	10.0	0.0
4000.0	2250.0	583647.5	7072320.2	23.0	44.0	55.0	15.0	-16.
4000.0	2262.5	583648.6	7072332.8	40.0	17.0	70.0	12.0	0.0
4000.0	2275.0	583649.6	7072345.5	25.0	-28.0	50.0	-10.0	16.0
4000.0	2287.5	583650.6	7072358.2	40.0	-10.0	55.0	-18.0	0.0
4000.0	2300.0	583651.7	7072370.9	65.0	0.0	30.0	36.0	0.0
4000.0	2312.5	583653.8	7072383.5	-45.0	40.0	55.0	35.0	0.0
4000.0	2325.0	583656.0	7072396.2	50.0	32.0	10.0	0.0	0.0
4000.0	2337.5	583658.2	7072408.8	55.0	40.0	60.0	20.0	0.0
4000.0	2350.0	583660.4	7072421.4	55.0	-38.0	55.0	-40.0	-25.
4000.0	2362.5	583660.9	7072433.2	55.0	30.0	35.0	-18.0	-15.
4000.0	2375.0	583661.3	7072445.0	55.0	21.0	45.0	-10.0	-10.
4000.0	2387.5	583661.8	7072456.8	50.0	18.0	60.0	18.0	13.0
4000.0	2400.0	583662.3	7072468.6	50.0	30.0	90.0	28.0	0.0
4000.0	2412.5	583666.8	7072481.3	30.0	5.0	30.0	-28.0	8.0
4000.0	2425.0	583671.4	7072494.0	25.0	4.0	60.0	25.0	0.0
4000.0	2437.5	583676.0	7072506.7	55.0	10.0	20.0	40.0	-15.
4000.0	2450.0	583680.5	7072519.4	5.0	-10.0	30.0	-10.0	5.0
4000.0	2462.5	583684.8	7072531.0	25.0	-30.0	40.0	30.0	5.0
4000.0	2475.0	583689.2	7072542.6	5.0	2.0	25.0	25.0	0.0
4000.0	2487.5	583693.5	7072554.2	50.0	40.0	65.0	15.0	0.0
4000.0	2500.0	583697.8	7072565.8	55.0	40.0	35.0	10.0	0.0
4000.0	2512.5	583697.9	7072579.4	15.0	12.0	20.0	-19.0	0.0
4000.0	2525.0	583698.0	7072592.9	5.0	21.0	25.0	20.0	0.0
4000.0	2537.5	583698.1	7072606.4	19.0	-30.0	40.0	-40.0	0.0
4200.0	0.0	583466.3	7070061.6	43.0	7.0	5.0	0.0	0.0
4200.0	12.5	583462.6	7070069.2	37.0	25.0	5.0	5.0	0.0
4200.0	25.0	583458.9	7070076.8	60.0	28.0	37.0	20.0	0.0
4200.0	37.5	583455.2	7070084.4	40.0	10.0	20.0	3.0	0.0
4200.0	50.0	583451.4	7070092.0	40.0	5.0	2.0	-8.0	0.0
4200.0	62.5	583459.9	7070106.5	82.0	30.0	0.0	6.0	0.0
4200.0	75.0	583468.4	7070121.0	45.0	18.0	0.0	0.0	0.0
4200.0	87.5	583476.9	7070135.5	0.0	14.0	0.0	11.0	0.0
4200.0	100.0	583485.4	7070150.0	90.0	40.0	-5.0	4.0	0.0
4200.0	112.5	583487.3	7070155.6	30.0	15.0	-5.0	0.0	0.0
4200.0	125.0	583489.2	7070161.2	20.0	34.0	0.0	-5.0	0.0
4200.0	137.5	583491.2	7070166.9	50.0	0.0	-5.0	8.0	0.0

4200.0	150.0	583493.1	7070172.5	38.0	-2.0	0.0	0.0	0.0
4200.0	162.5	583497.2	7070183.1	45.0	28.0	4.0	10.0	0.0
4200.0	175.0	583501.2	7070193.6	25.0	12.0	-8.0	-8.0	0.0
4200.0	187.5	583505.3	7070204.2	50.0	22.0	-8.0	8.0	0.0
4200.0	200.0	583509.4	7070214.7	38.0	-20.0	-10.0	10.0	0.0
4200.0	212.5	583501.2	7070219.1	25.0	5.0	40.0	2.0	0.0
4200.0	225.0	583493.0	7070223.5	34.0	-12.0	30.0	-22.0	0.0
4200.0	237.5	583484.8	7070227.9	5.0	40.0	-10.0	-10.0	0.0
4200.0	250.0	583476.6	7070232.3	3.0	20.0	-20.0	0.0	0.0
4200.0	262.5	583472.3	7070240.3	28.0	-18.0	-17.0	-2.0	0.0
4200.0	275.0	583467.9	7070248.2	55.0	-2.0	-5.0	10.0	0.0
4200.0	287.5	583463.6	7070256.2	-3.0	-2.0	25.0	-4.0	0.0
4200.0	300.0	583459.2	7070264.1	40.0	18.0	-3.0	-4.0	0.0
4200.0	312.5	583463.2	7070265.6	10.0	0.0	-5.0	-5.0	0.0
4200.0	325.0	583467.2	7070267.1	36.0	-22.0	-5.0	2.0	0.0
4200.0	337.5	583471.3	7070268.6	40.0	10.0	-10.0	-5.0	0.0
4200.0	350.0	583475.3	7070270.1	30.0	0.0	-15.0	10.0	0.0
4200.0	362.5	583486.7	7070269.3	23.0	12.0	5.0	12.0	0.0
4200.0	375.0	583498.1	7070268.4	22.0	0.0	-6.0	2.0	0.0
4200.0	387.5	583509.5	7070267.6	30.0	20.0	4.0	4.0	0.0
4200.0	400.0	583521.0	7070266.8	-6.0	3.0	0.0	4.0	0.0
4200.0	412.5	583524.2	7070276.8	-34.0	-5.0	3.0	6.0	0.0
4200.0	425.0	583527.4	7070286.8	-30.0	0.0	-7.0	0.0	2.0
4200.0	437.5	583530.6	7070296.8	10.0	15.0	-2.0	0.0	2.0
4200.0	450.0	583533.8	7070306.8	0.0	8.0	-5.0	2.0	2.0
4200.0	462.5	583535.7	7070320.0	25.0	10.0	-5.0	-1.0	2.0
4200.0	475.0	583537.7	7070333.1	-12.0	18.0	-2.0	0.0	2.0
4200.0	487.5	583539.6	7070346.3	15.0	-3.0	-2.0	12.0	0.0
4200.0	500.0	583541.6	7070359.4	-10.0	-12.0	-10.0	-8.0	2.0
4200.0	512.5	583538.6	7070371.6	5.0	5.0	0.0	4.0	2.0
4200.0	525.0	583535.5	7070383.8	0.0	22.0	-6.0	1.0	2.0
4200.0	537.5	583532.5	7070396.0	32.0	-2.0	0.0	9.0	2.0
4200.0	550.0	583529.5	7070408.2	15.0	3.0	0.0	2.0	2.0
4200.0	562.5	583519.5	7070411.6	0.0	18.0	-2.0	-12.0	2.0
4200.0	575.0	583509.6	7070415.0	-15.0	8.0	15.0	-10.0	0.0
4200.0	587.5	583499.6	7070418.3	15.0	0.0	0.0	2.0	0.0
4200.0	600.0	583489.6	7070421.8	10.0	10.0	-6.0	10.0	0.0
4200.0	612.5	583498.3	7070434.5	0.0	22.0	0.0	-3.0	0.0
4200.0	625.0	583506.9	7070447.3	-6.0	10.0	2.0	0.0	0.0
4200.0	637.5	583515.5	7070460.0	15.0	8.0	0.0	0.0	0.0
4200.0	650.0	583524.1	7070472.8	20.0	-12.0	-5.0	2.0	0.0
4200.0	662.5	583537.2	7070479.5	35.0	25.0	-10.0	0.0	0.0
4200.0	675.0	583550.2	7070486.2	20.0	10.0	-10.0	2.0	0.0
4200.0	687.5	583563.2	7070492.9	10.0	18.0	-5.0	-7.0	0.0
4200.0	700.0	583576.2	7070499.6	3.0	28.0	0.0	5.0	0.0
4200.0	712.5	583574.0	7070508.1	8.0	18.0	-6.0	8.0	0.0
4200.0	725.0	583571.8	7070516.7	4.0	18.0	-6.0	7.0	0.0
4200.0	737.5	583569.6	7070525.3	16.0	0.0	-5.0	-2.0	0.0
4200.0	750.0	583567.5	7070533.8	0.0	40.0	0.0	1.0	0.0
4200.0	762.5	583566.8	7070540.7	20.0	2.0	0.0	8.0	0.0
4200.0	775.0	583566.2	7070547.6	0.0	-7.0	0.0	2.0	0.0
4200.0	787.5	583565.6	7070554.5	2.0	-1.0	-4.0	6.0	0.0
4200.0	800.0	583565.0	7070561.4	0.0	-16.0	-3.0	3.0	0.0
4200.0	812.5	583566.0	7070573.1	-32.0	-2.0	2.0	2.0	3.0
4200.0	825.0	583567.0	7070584.9	3.0	21.0	4.0	2.0	0.0
4200.0	837.5	583568.1	7070596.6	-25.0	15.0	-5.0	-3.0	0.0
4200.0	850.0	583569.1	7070608.4	0.0	7.0	0.0	-2.0	0.0
4200.0	862.5	583567.9	7070619.4	10.0	-10.0	-2.0	0.0	0.0
4200.0	875.0	583566.8	7070630.4	4.0	15.0	0.0	-2.0	2.0
4200.0	887.5	583565.7	7070641.4	8.0	10.0	0.0	6.0	3.0

4200.0	900.0	583564.5	7070652.4	0.0	14.0	3.0	0.0	4.0
4200.0	912.5	583569.2	7070663.3	22.0	24.0	0.0	4.0	8.0
4200.0	925.0	583573.8	7070674.3	4.0	-4.0	-7.0	1.0	20.0
4200.0	937.5	583578.4	7070685.2	-8.0	8.0	0.0	-3.0	25.0
4200.0	950.0	583583.1	7070696.2	12.0	-2.0	0.0	2.0	18.0
4200.0	962.5	583582.8	7070705.5	7.0	1.0	5.0	8.0	0.0
4200.0	975.0	583582.5	7070714.8	0.0	13.0	-10.0	-4.0	0.0
4200.0	987.5	583582.3	7070724.1	5.0	18.0	-10.0	0.0	18.0
4200.0	1000.0	583582.0	7070733.4	-5.0	2.0	0.0	0.0	18.0
4200.0	1012.5	583583.1	7070751.4	0.0	-9.0	-2.0	0.0	25.0
4200.0	1025.0	583584.1	7070769.4	8.0	0.0	-2.0	7.0	27.0
4200.0	1037.5	583585.2	7070787.4	10.0	-5.0	-15.0	8.0	25.0
4200.0	1050.0	583586.2	7070805.4	0.0	5.0	-33.0	-10.0	25.0
4200.0	1062.5	583588.0	7070810.9	30.0	8.0	-27.0	16.0	18.0
4200.0	1075.0	583589.7	7070816.5	-35.0	2.0	-3.0	0.0	30.0
4200.0	1087.5	583591.5	7070822.0	-34.0	-10.0	-20.0	-10.0	23.0
4200.0	1100.0	583593.2	7070827.5	-30.0	10.0	10.0	-8.0	20.0
4200.0	1112.5	583598.8	7070839.6	-45.0	-10.0	-30.0	-8.0	22.0
4200.0	1125.0	583604.5	7070851.7	-50.0	-2.0	-27.0	-27.0	25.0
4200.0	1137.5	583610.1	7070863.8	50.0	2.0	-10.0	0.0	25.0
4200.0	1150.0	583615.8	7070875.9	-45.0	0.0	-5.0	-10.0	18.0
4200.0	1162.5	583614.8	7070883.8	-15.0	0.0	-15.0	0.0	18.0
4200.0	1175.0	583613.8	7070891.7	-20.0	-8.0	-10.0	-8.0	10.0
4200.0	1187.5	583612.8	7070899.6	-8.0	12.0	0.0	0.0	10.0
4200.0	1200.0	583611.8	7070907.5	-10.0	2.0	-3.0	0.0	8.0
4200.0	1212.5	583613.8	7070920.6	-30.0	0.0	0.0	0.0	12.0
4200.0	1225.0	583615.8	7070933.7	-10.0	0.0	0.0	0.0	10.0
4200.0	1237.5	583617.9	7070946.7	5.0	0.0	5.0	2.0	0.0
4200.0	1250.0	583619.9	7070959.8	0.0	-2.0	0.0	2.0	0.0
4200.0	1262.5	583620.2	7070965.4	-13.0	2.0	-3.0	2.0	0.0
4200.0	1275.0	583620.6	7070971.1	-10.0	-5.0	-2.0	2.0	0.0
4200.0	1287.5	583620.9	7070976.7	5.0	-2.0	3.0	0.0	0.0
4200.0	1300.0	583621.2	7070982.4	0.0	2.0	-5.0	2.0	0.0
4200.0	1312.5	583626.1	7070996.9	0.0	10.0	0.0	-10.0	0.0
4200.0	1325.0	583631.0	7071011.4	-15.0	8.0	-17.0	0.0	0.0
4200.0	1337.5	583635.9	7071026.0	0.0	2.0	-5.0	-2.0	0.0
4200.0	1350.0	583640.8	7071040.5	-5.0	0.0	0.0	-1.0	0.0
4200.0	1362.5	583641.6	7071051.4	-15.0	0.0	0.0	-3.0	0.0
4200.0	1375.0	583642.4	7071062.3	-15.0	4.0	-6.0	0.0	0.0
4200.0	1387.5	583643.2	7071073.2	0.0	-5.0	-10.0	5.0	0.0
4200.0	1400.0	583644.0	7071084.2	-8.0	10.0	0.0	0.0	0.0
4200.0	1412.5	583646.8	7071093.7	-5.0	0.0	0.0	0.0	0.0
4200.0	1425.0	583649.7	7071103.3	-3.0	3.0	0.0	1.0	0.0
4200.0	1437.5	583652.6	7071112.9	-15.0	-2.0	2.0	-5.0	0.0
4200.0	1450.0	583655.5	7071122.5	20.0	11.0	0.0	-1.0	0.0
4200.0	1462.5	583660.6	7071133.9	-10.0	-15.0	0.0	0.0	0.0
4200.0	1475.0	583665.6	7071145.3	-7.0	-3.0	-10.0	-10.0	0.0
4200.0	1487.5	583670.7	7071156.7	0.0	10.0	-2.0	0.0	0.0
4200.0	1500.0	583675.7	7071168.1	-2.0	0.0	0.0	-2.0	0.0
4200.0	1512.5	583675.6	7071179.1	-10.0	5.0	0.0	0.0	0.0
4200.0	1525.0	583675.5	7071190.0	20.0	10.0	7.0	3.0	0.0
4200.0	1537.5	583675.3	7071201.0	15.0	7.0	-8.0	-10.0	0.0
4200.0	1550.0	583675.2	7071212.0	0.0	5.0	2.0	0.0	0.0
4200.0	1562.5	583674.6	7071221.7	-5.0	-2.0	5.0	0.0	0.0
4200.0	1575.0	583674.1	7071231.5	3.0	11.0	0.0	-3.0	0.0
4200.0	1587.5	583673.5	7071241.3	0.0	2.0	0.0	12.0	0.0
4200.0	1600.0	583672.9	7071251.1	5.0	5.0	-8.0	0.0	0.0
4200.0	1612.5	583672.1	7071263.0	20.0	5.0	5.0	0.0	0.0
4200.0	1625.0	583671.2	7071275.0	0.0	-2.0	5.0	7.0	0.0
4200.0	1637.5	583670.3	7071287.0	-5.0	0.0	0.0	0.0	0.0

4200.0	1650.0	583676.2	7071292.0	45.0	-20.0	-15.0	20.0	0.0
4200.0	1662.5	583677.7	7071306.8	15.0	12.0	-10.0	12.0	0.0
4200.0	1675.0	583679.2	7071321.6	10.0	2.0	10.0	-8.0	0.0
4200.0	1687.5	583680.7	7071336.3	-50.0	25.0	0.0	32.0	0.0
4200.0	1700.0	583682.2	7071351.1	80.0	12.0	-5.0	-5.0	0.0
4200.0	1712.5	583684.8	7071358.1	80.0	30.0	10.0	10.0	0.0
4200.0	1725.0	583687.3	7071365.0	90.0	-10.0	0.0	8.0	0.0
4200.0	1737.5	583689.8	7071371.9	100.0	12.0	0.0	5.0	0.0
4200.0	1750.0	583692.3	7071378.9	60.0	28.0	3.0	10.0	0.0
4200.0	1762.5	583694.9	7071385.8	60.0	4.0	80.0	-5.0	0.0
4200.0	1775.0	583697.4	7071392.7	70.0	20.0	40.0	10.0	0.0
4200.0	1787.5	583699.9	7071399.7	90.0	-40.0	5.0	5.0	0.0
4200.0	1800.0	583702.4	7071406.6	60.0	-10.0	20.0	5.0	0.0
4200.0	1812.5	583700.0	7071417.1	60.0	20.0	15.0	20.0	0.0
4200.0	1825.0	583697.5	7071427.6	45.0	10.0	10.0	9.0	0.0
4200.0	1837.5	583695.0	7071438.0	8.0	2.0	4.0	-15.0	0.0
4200.0	1850.0	583692.6	7071448.5	80.0	-2.0	0.0	0.0	0.0
4200.0	1862.5	583690.1	7071459.0	70.0	40.0	-10.0	10.0	0.0
4200.0	1875.0	583687.7	7071469.5	45.0	10.0	0.0	5.0	0.0
4200.0	1887.5	583685.2	7071480.0	55.0	25.0	10.0	-18.0	0.0
4200.0	1900.0	583682.7	7071490.5	50.0	2.0	0.0	0.0	0.0
4200.0	1912.5	583688.7	7071499.7	55.0	30.0	0.0	3.0	0.0
4200.0	1925.0	583694.7	7071509.0	55.0	-5.0	0.0	8.0	0.0
4200.0	1937.5	583700.7	7071518.3	40.0	15.0	15.0	12.0	0.0
4200.0	1950.0	583706.7	7071527.5	50.0	10.0	12.0	30.0	0.0
4200.0	1962.5	583712.7	7071536.8	55.0	10.0	0.0	-8.0	0.0
4200.0	1975.0	583718.7	7071546.0	40.0	2.0	15.0	15.0	0.0
4200.0	1987.5	583724.7	7071555.3	45.0	18.0	-5.0	22.0	0.0
4200.0	2000.0	583730.7	7071564.5	40.0	15.0	0.0	-12.0	0.0
4200.0	2012.5	583732.2	7071580.1	32.0	28.0	18.0	10.0	0.0
4200.0	2025.0	583733.6	7071595.6	60.0	2.0	5.0	2.0	0.0
4200.0	2037.5	583735.1	7071611.1	40.0	-25.0	-5.0	0.0	0.0
4200.0	2050.0	583736.5	7071626.6	50.0	-10.0	10.0	40.0	0.0
4200.0	2062.5	583738.0	7071642.1	30.0	40.0	40.0	5.0	0.0
4200.0	2075.0	583739.4	7071657.6	65.0	-10.0	10.0	-10.0	0.0
4200.0	2087.5	583740.9	7071673.1	50.0	30.0	-25.0	20.0	0.0
4200.0	2100.0	583742.3	7071688.6	70.0	30.0	20.0	22.0	0.0
4200.0	2112.5	583744.6	7071698.3	30.0	-30.0	15.0	0.0	0.0
4200.0	2125.0	583746.8	7071707.9	28.0	12.0	-10.0	0.0	0.0
4200.0	2137.5	583749.0	7071717.6	0.0	10.0	-10.0	-5.0	0.0
4200.0	2150.0	583751.3	7071727.3	5.0	-18.0	-15.0	2.0	0.0
4200.0	2162.5	583753.5	7071737.0	20.0	2.0	2.0	-2.0	0.0
4200.0	2175.0	583755.8	7071746.7	10.0	22.0	0.0	5.0	0.0
4200.0	2187.5	583758.0	7071756.4	30.0	0.0	0.0	8.0	0.0
4200.0	2200.0	583760.2	7071766.0	-20.0	30.0	-3.0	-3.0	0.0
4200.0	2212.5	583760.6	7071775.6	20.0	35.0	2.0	12.0	0.0
4200.0	2225.0	583760.9	7071785.1	12.0	30.0	5.0	8.0	0.0
4200.0	2237.5	583761.2	7071794.7	40.0	-30.0	-10.0	10.0	0.0
4200.0	2250.0	583761.6	7071804.2	0.0	20.0	0.0	2.0	0.0
4200.0	2262.5	583761.9	7071813.8	0.0	12.0	-3.0	3.0	0.0
4200.0	2275.0	583762.2	7071823.3	55.0	-30.0	0.0	8.0	0.0
4200.0	2287.5	583762.6	7071832.9	10.0	12.0	0.0	2.0	0.0
4200.0	2300.0	583762.9	7071842.4	25.0	-16.0	0.0	3.0	-30.0
4200.0	2312.5	583765.0	7071853.0	4.0	30.0	0.0	3.0	0.0
4200.0	2325.0	583767.2	7071863.6	12.0	12.0	0.0	0.0	10.0
4200.0	2337.5	583769.3	7071874.2	0.0	40.0	5.0	2.0	10.0
4200.0	2350.0	583771.5	7071884.7	0.0	9.0	2.0	-10.0	10.0
4200.0	2362.5	583773.6	7071895.3	0.0	10.0	0.0	20.0	0.0
4200.0	2375.0	583775.8	7071905.9	0.0	20.0	0.0	0.0	0.0
4200.0	2387.5	583777.9	7071916.5	0.0	15.0	0.0	-3.0	0.0

4200.0	2400.0	583780.1	7071927.0	0.0	20.0	0.0	-8.0	0.0
4200.0	2412.5	583781.7	7071938.5	0.0	20.0	2.0	0.0	0.0
4200.0	2425.0	583783.3	7071950.0	0.0	30.0	0.0	8.0	0.0
4200.0	2437.5	583785.0	7071961.5	0.0	18.0	0.0	2.0	0.0
4200.0	2450.0	583786.6	7071973.0	0.0	18.0	0.0	10.0	0.0
4200.0	2462.5	583788.2	7071984.5	-10.0	22.0	10.0	20.0	0.0
4200.0	2475.0	583789.8	7071996.0	0.0	0.0	10.0	28.0	0.0
4200.0	2487.5	583791.5	7072007.5	0.0	23.0	10.0	20.0	0.0
4200.0	2500.0	583793.1	7072019.0	0.0	25.0	-15.0	18.0	0.0
4200.0	2512.5	583797.7	7072031.5	0.0	22.0	-20.0	22.0	0.0
4200.0	2525.0	583802.3	7072044.0	0.0	22.0	-30.0	10.0	-15.
4200.0	2537.5	583806.9	7072056.5	0.0	20.0	-25.0	15.0	-15.
4200.0	2550.0	583811.5	7072069.0	0.0	20.0	-25.0	15.0	0.0
4200.0	2562.5	583818.1	7072080.5	5.0	15.0	0.0	30.0	0.0
4200.0	2575.0	583824.7	7072092.0	5.0	30.0	-30.0	12.0	0.0
4200.0	2587.5	583831.3	7072103.5	0.0	15.0	-38.0	40.0	0.0
4200.0	2600.0	583838.0	7072115.0	10.0	32.0	10.0	30.0	30.0
4200.0	2612.5	583840.3	7072126.1	0.0	30.0	-15.0	8.0	0.0
4200.0	2625.0	583842.7	7072137.3	10.0	20.0	-8.0	8.0	0.0
4200.0	2637.5	583845.0	7072148.5	0.0	15.0	0.0	12.0	0.0
4200.0	2650.0	583847.4	7072159.6	0.0	25.0	0.0	0.0	0.0
4200.0	2662.5	583849.7	7072170.8	0.0	20.0	5.0	10.0	0.0
4200.0	2675.0	583852.1	7072182.0	0.0	22.0	10.0	10.0	0.0
4200.0	2687.5	583854.4	7072193.1	0.0	10.0	5.0	10.0	0.0
4200.0	2700.0	583856.8	7072204.3	0.0	10.0	5.0	15.0	0.0
4200.0	2712.5	583859.8	7072217.7	10.0	20.0	5.0	10.0	0.0
4200.0	2725.0	583862.8	7072231.2	10.0	25.0	0.0	0.0	0.0
4200.0	2737.5	583865.9	7072244.6	0.0	40.0	18.0	10.0	0.0
4200.0	2750.0	583868.9	7072258.1	0.0	15.0	0.0	12.0	0.0
4200.0	2762.5	583871.9	7072271.5	18.0	20.0	5.0	12.0	0.0
4200.0	2775.0	583875.0	7072284.9	5.0	30.0	0.0	18.0	0.0
4200.0	2787.5	583878.0	7072298.4	0.0	5.0	0.0	12.0	-30.
4200.0	2800.0	583881.0	7072311.8	5.0	18.0	0.0	12.0	0.0
4200.0	2812.5	583883.1	7072320.2	0.0	12.0	10.0	10.0	0.0
4200.0	2825.0	583885.1	7072328.6	0.0	18.0	5.0	15.0	10.0
4200.0	2837.5	583887.2	7072337.0	15.0	22.0	10.0	2.0	10.0
4200.0	2850.0	583889.2	7072345.4	10.0	10.0	12.0	5.0	10.0
4200.0	2862.5	583891.3	7072353.8	5.0	10.0	5.0	10.0	0.0
4200.0	2875.0	583893.3	7072362.2	10.0	13.0	5.0	5.0	0.0
4200.0	2887.5	583895.4	7072370.5	12.0	12.0	7.0	10.0	0.0
4200.0	2900.0	583897.4	7072378.9	5.0	11.0	20.0	4.0	0.0
4200.0	2912.5	583899.2	7072391.7	4.0	10.0	0.0	10.0	0.0
4200.0	2925.0	583901.0	7072404.5	15.0	22.0	10.0	12.0	0.0
4200.0	2937.5	583902.8	7072417.3	10.0	18.0	18.0	8.0	0.0
4200.0	2950.0	583904.7	7072430.2	10.0	20.0	10.0	8.0	-10.
4200.0	2962.5	583906.5	7072443.0	60.0	10.0	5.0	0.0	-10.
4200.0	2975.0	583908.3	7072455.8	80.0	-30.0	0.0	18.0	-10.
4200.0	2987.5	583910.1	7072468.6	5.0	22.0	0.0	25.0	30.0
4200.0	3000.0	583911.9	7072481.4	10.0	30.0	5.0	32.0	0.0
4400.0	0.0	583672.1	7069995.0	-30.0	-8.0	-15.0	-2.0	0.0
4400.0	12.5	583675.2	7070006.3	-10.0	-2.0	-4.0	2.0	0.0
4400.0	25.0	583678.2	7070017.6	-8.0	2.0	-5.0	-8.0	0.0
4400.0	37.5	583681.3	7070028.9	-4.0	-6.0	-3.0	2.0	0.0
4400.0	50.0	583684.3	7070040.2	0.0	0.0	5.0	0.0	0.0
4400.0	62.5	583687.4	7070051.4	-5.0	-4.0	-5.0	-2.0	0.0
4400.0	75.0	583690.4	7070062.7	-20.0	2.0	-5.0	4.0	0.0
4400.0	87.5	583693.5	7070074.0	-5.0	2.0	0.0	2.0	0.0
4400.0	100.0	583696.5	7070085.3	-30.0	2.0	-7.0	6.0	0.0
4400.0	112.5	583699.3	7070096.7	-15.0	4.0	-3.0	0.0	0.0
4400.0	125.0	583702.1	7070108.2	-20.0	0.0	0.0	4.0	-2.0

4400.0	137.5	583704.9	7070119.6	-20.0	-8.0	-7.0	2.0	-8.0
4400.0	150.0	583707.7	7070131.0	-12.0	4.0	-5.0	0.0	8.0
4400.0	162.5	583710.5	7070142.5	-15.0	-5.0	-8.0	0.0	0.0
4400.0	175.0	583713.3	7070153.9	-28.0	2.0	-8.0	2.0	3.0
4400.0	187.5	583716.1	7070165.4	-30.0	4.0	-10.0	0.0	-6.0
4400.0	200.0	583718.9	7070176.8	-36.0	4.0	-19.0	2.0	0.0
4400.0	212.5	583720.3	7070189.6	-12.0	-4.0	-3.0	-2.0	3.0
4400.0	225.0	583721.7	7070202.4	-8.0	2.0	0.0	1.0	0.0
4400.0	237.5	583723.1	7070215.2	-20.0	2.0	-5.0	0.0	0.0
4400.0	250.0	583724.5	7070228.0	-28.0	-4.0	-8.0	-10.0	0.0
4400.0	262.5	583725.9	7070240.7	-25.0	4.0	-10.0	-10.0	2.0
4400.0	275.0	583727.3	7070253.5	-25.0	4.0	-8.0	-4.0	0.0
4400.0	287.5	583728.7	7070266.3	-5.0	2.0	-4.0	0.0	2.0
4400.0	300.0	583730.1	7070279.1	-20.0	2.0	-10.0	4.0	2.0
4400.0	312.5	583731.8	7070291.4	-10.0	0.0	-10.0	0.0	2.0
4400.0	325.0	583733.6	7070303.7	-12.0	-8.0	-3.0	0.0	2.0
4400.0	337.5	583735.3	7070316.0	-20.0	2.0	-8.0	4.0	2.0
4400.0	350.0	583737.1	7070328.3	-20.0	-4.0	-6.0	2.0	2.0
4400.0	362.5	583738.8	7070340.6	-35.0	4.0	-12.0	2.0	3.0
4400.0	375.0	583740.5	7070352.9	-20.0	0.0	-20.0	4.0	3.0
4400.0	387.5	583742.3	7070365.1	-20.0	-2.0	-20.0	4.0	3.0
4400.0	400.0	583744.0	7070377.4	-20.0	-2.0	-8.0	-2.0	3.0
4400.0	412.5	583746.4	7070389.4	-15.0	0.0	-12.0	0.0	3.0
4400.0	425.0	583748.9	7070401.3	-20.0	6.0	-6.0	4.0	3.0
4400.0	437.5	583751.3	7070413.3	-16.0	0.0	-10.0	2.0	3.0
4400.0	450.0	583753.7	7070425.3	-10.0	4.0	-11.0	2.0	3.0
4400.0	462.5	583756.1	7070437.2	-10.0	9.0	-10.0	4.0	3.0
4400.0	475.0	583758.6	7070449.2	-8.0	-2.0	-6.0	0.0	3.0
4400.0	487.5	583761.0	7070461.1	-14.0	8.0	-5.0	2.0	3.0
4400.0	500.0	583763.4	7070473.1	-20.0	4.0	-10.0	2.0	5.0
4400.0	512.5	583765.1	7070485.5	-18.0	-4.0	-10.0	2.0	5.0
4400.0	525.0	583766.7	7070498.0	-15.0	4.0	-6.0	2.0	5.0
4400.0	537.5	583768.4	7070510.4	-10.0	0.0	-10.0	4.0	5.0
4400.0	550.0	583770.0	7070522.9	-20.0	-6.0	-10.0	4.0	3.0
4400.0	562.5	583771.7	7070535.4	-15.0	0.0	-6.0	0.0	3.0
4400.0	575.0	583773.4	7070547.8	-20.0	2.0	-5.0	0.0	3.0
4400.0	587.5	583775.0	7070560.3	-9.0	0.0	-5.0	3.0	3.0
4400.0	600.0	583776.7	7070572.7	-10.0	0.0	0.0	2.0	3.0
4400.0	612.5	583779.0	7070585.2	-7.0	2.0	-5.0	1.0	5.0
4400.0	625.0	583781.3	7070597.7	-14.0	8.0	-4.0	6.0	5.0
4400.0	637.5	583783.6	7070610.2	-10.0	2.0	-12.0	3.0	5.0
4400.0	650.0	583785.9	7070622.7	-8.0	0.0	-3.0	-2.0	8.0
4400.0	662.5	583788.2	7070635.2	-5.0	-10.0	-2.0	2.0	8.0
4400.0	675.0	583790.5	7070647.7	-18.0	2.0	-10.0	3.0	5.0
4400.0	687.5	583792.8	7070660.2	-12.0	0.0	-6.0	0.0	5.0
4400.0	700.0	583795.1	7070672.7	-18.0	3.0	-8.0	6.0	8.0
4400.0	712.5	583797.6	7070685.5	-14.0	2.0	-5.0	1.0	8.0
4400.0	725.0	583800.1	7070698.4	-15.0	-2.0	-3.0	-2.0	8.0
4400.0	737.5	583802.7	7070711.3	-10.0	-3.0	-6.0	4.0	8.0
4400.0	750.0	583805.2	7070724.2	-9.0	2.0	-6.0	3.0	10.0
4400.0	762.5	583807.8	7070737.0	-8.0	0.0	-3.0	4.0	10.0
4400.0	775.0	583810.3	7070749.9	-8.0	-2.0	-2.0	5.0	20.0
4400.0	787.5	583812.8	7070762.8	0.0	0.0	-5.0	-1.0	20.0
4400.0	800.0	583815.4	7070775.6	-20.0	0.0	-10.0	0.0	20.0
4400.0	812.5	583817.6	7070786.9	-15.0	-12.0	-5.0	3.0	20.0
4400.0	825.0	583819.9	7070798.1	-10.0	0.0	-9.0	-8.0	20.0
4400.0	837.5	583822.1	7070809.3	-15.0	3.0	-2.0	-8.0	20.0
4400.0	850.0	583824.4	7070820.6	-16.0	-10.0	-8.0	-1.0	20.0
4400.0	862.5	583826.6	7070831.8	-10.0	-3.0	-5.0	-6.0	20.0
4400.0	875.0	583828.9	7070843.1	-15.0	-2.0	-6.0	-8.0	15.0

4400.0	887.5	583831.1	7070854.3	-8.0	-2.0	-10.0	2.0	15.0
4400.0	900.0	583833.4	7070865.5	-10.0	0.0	-5.0	-2.0	15.0
4400.0	912.5	583834.7	7070877.0	-10.0	0.0	-6.0	0.0	15.0
4400.0	925.0	583836.1	7070888.5	-8.0	-4.0	-7.0	2.0	15.0
4400.0	937.5	583837.5	7070900.0	-5.0	0.0	-8.0	3.0	15.0
4400.0	950.0	583838.9	7070911.5	-15.0	-1.0	-2.0	0.0	15.0
4400.0	962.5	583840.2	7070922.9	-5.0	-3.0	-8.0	8.0	10.0
4400.0	975.0	583841.6	7070934.4	-13.0	-3.0	-5.0	3.0	10.0
4400.0	987.5	583843.0	7070945.9	-15.0	-2.0	-8.0	4.0	8.0
4400.0	1000.0	583844.4	7070957.4	-10.0	-8.0	-5.0	-3.0	8.0
4600.0	400.0	583869.7	7070003.2	-10.0	-3.0	-5.0	8.0	-3.0
4600.0	412.5	583871.0	7070019.5	-10.0	-3.0	-5.0	8.0	-3.0
4600.0	425.0	583872.4	7070035.9	20.0	8.0	10.0	6.0	-3.0
4600.0	437.5	583873.7	7070052.2	25.0	10.0	15.0	-6.0	3.0
4600.0	450.0	583875.0	7070068.5	20.0	2.0	5.0	6.0	0.0
4600.0	462.5	583876.4	7070084.8	15.0	10.0	8.0	8.0	13.0
4600.0	475.0	583877.7	7070101.2	18.0	12.0	5.0	6.0	-3.0
4600.0	487.5	583879.0	7070117.5	25.0	8.0	-10.0	-10.0	0.0
4600.0	500.0	583880.3	7070133.8	20.0	12.0	8.0	-4.0	0.0
4600.0	512.5	583883.4	7070149.1	25.0	10.0	10.0	14.0	0.0
4600.0	525.0	583886.5	7070164.3	20.0	4.0	15.0	-2.0	0.0
4600.0	537.5	583889.6	7070179.5	10.0	8.0	6.0	9.0	0.0
4600.0	550.0	583892.7	7070194.7	15.0	4.0	7.0	9.0	0.0
4600.0	562.5	583895.8	7070210.0	20.0	4.0	8.0	6.0	0.0
4600.0	575.0	583898.9	7070225.2	20.0	8.0	4.0	-8.0	-3.0
4600.0	587.5	583902.0	7070240.4	15.0	4.0	16.0	6.0	-3.0
4600.0	600.0	583905.1	7070255.7	10.0	4.0	0.0	10.0	-3.0
4600.0	612.5	583908.3	7070271.7	15.0	6.0	8.0	4.0	0.0
4600.0	625.0	583911.4	7070287.8	25.0	0.0	15.0	4.0	0.0
4600.0	637.5	583914.6	7070303.8	25.0	10.0	5.0	4.0	0.0
4600.0	650.0	583917.8	7070319.9	15.0	0.0	10.0	-2.0	0.0
4600.0	662.5	583920.9	7070336.0	15.0	4.0	15.0	6.0	0.0
4600.0	675.0	583924.1	7070352.0	22.0	0.0	12.0	-8.0	0.0
4600.0	687.5	583927.3	7070368.1	20.0	4.0	10.0	6.0	0.0
4600.0	700.0	583930.5	7070384.1	15.0	0.0	2.0	-2.0	0.0
4600.0	712.5	583933.5	7070399.0	15.0	-6.0	6.0	-2.0	0.0
4600.0	725.0	583936.6	7070413.9	10.0	2.0	3.0	4.0	5.0
4600.0	737.5	583939.6	7070428.8	20.0	10.0	2.0	4.0	5.0
4600.0	750.0	583942.7	7070443.7	15.0	6.0	3.0	0.0	5.0
4600.0	762.5	583945.7	7070458.5	20.0	6.0	0.0	0.0	5.0
4600.0	775.0	583948.8	7070473.4	20.0	-4.0	-1.0	0.0	5.0
4600.0	787.5	583951.8	7070488.3	30.0	0.0	-5.0	6.0	5.0
4600.0	800.0	583954.9	7070503.2	15.0	0.0	0.0	6.0	5.0
4600.0	812.5	583957.3	7070517.8	30.0	6.0	10.0	5.0	5.0
4600.0	825.0	583959.7	7070532.3	25.0	2.0	10.0	2.0	0.0
4600.0	837.5	583962.1	7070546.9	25.0	2.0	4.0	10.0	0.0
4600.0	850.0	583964.6	7070561.5	25.0	2.0	15.0	9.0	5.0
4600.0	862.5	583967.0	7070576.0	35.0	4.0	12.0	-4.0	8.0
4600.0	875.0	583969.4	7070590.6	25.0	3.0	2.0	2.0	8.0
4600.0	887.5	583971.8	7070605.2	30.0	2.0	5.0	0.0	10.0
4600.0	900.0	583974.3	7070619.7	30.0	4.0	10.0	3.0	10.0
4600.0	912.5	583977.6	7070634.5	35.0	0.0	10.0	4.0	8.0
4600.0	925.0	583980.9	7070649.2	40.0	0.0	0.0	0.0	3.0
4600.0	937.5	583984.3	7070663.9	40.0	-3.0	5.0	5.0	3.0
4600.0	950.0	583987.6	7070678.6	35.0	3.0	0.0	0.0	3.0
4600.0	962.5	583991.0	7070693.4	40.0	0.0	6.0	0.0	8.0
4600.0	975.0	583994.3	7070708.1	35.0	10.0	10.0	0.0	20.0
4600.0	987.5	583997.6	7070722.8	40.0	-4.0	-2.0	-4.0	20.0
4600.0	1000.0	584001.0	7070737.6	50.0	0.0	-4.0	-2.0	20.0
4600.0	1012.5	584002.3	7070752.1	40.0	5.0	5.0	3.0	20.0

4600.0	1025.0	584003.6	7070766.6	45.0	6.0	-4.0	4.0	35.0
4600.0	1037.5	584004.9	7070781.1	25.0	-4.0	0.0	0.0	35.0
4600.0	1050.0	584006.1	7070795.6	20.0	0.0	-8.0	0.0	20.0
4600.0	1062.5	584007.4	7070810.1	25.0	0.0	-5.0	-3.0	20.0
4600.0	1075.0	584008.7	7070824.6	30.0	6.0	10.0	4.0	20.0
4600.0	1087.5	584010.0	7070839.1	40.0	8.0	10.0	4.0	20.0
4600.0	1100.0	584011.3	7070853.6	30.0	8.0	5.0	4.0	20.0
4600.0	1112.5	584015.4	7070866.8	40.0	-6.0	10.0	10.0	20.0
4600.0	1125.0	584019.5	7070880.1	40.0	-8.0	10.0	0.0	20.0
4600.0	1137.5	584023.7	7070893.3	40.0	-2.0	0.0	0.0	20.0
4600.0	1150.0	584027.8	7070906.5	20.0	-4.0	10.0	-2.0	20.0
4600.0	1162.5	584031.9	7070919.7	45.0	0.0	5.0	0.0	8.0
4600.0	1175.0	584036.1	7070932.9	40.0	6.0	-8.0	0.0	8.0
4600.0	1187.5	584040.2	7070946.2	70.0	2.0	12.0	-2.0	8.0
4600.0	1200.0	584044.3	7070959.4	50.0	4.0	10.0	0.0	8.0
4600.0	1212.5	584045.6	7070974.4	50.0	6.0	5.0	6.0	8.0
4600.0	1225.0	584046.9	7070989.3	50.0	2.0	5.0	8.0	8.0
4600.0	1237.5	584048.2	7071004.3	50.0	-2.0	5.0	3.0	3.0
4600.0	1250.0	584049.5	7071019.3	80.0	-4.0	10.0	3.0	3.0
4600.0	1262.5	584050.8	7071034.3	60.0	-2.0	5.0	2.0	0.0
4600.0	1275.0	584052.2	7071049.3	30.0	8.0	0.0	0.0	3.0
4600.0	1287.5	584053.5	7071064.3	80.0	-4.0	5.0	4.0	0.0
4600.0	1300.0	584054.8	7071079.3	90.0	0.0	0.0	0.0	0.0
4600.0	1312.5	584057.6	7071093.3	40.0	-6.0	10.0	0.0	0.0
4600.0	1325.0	584060.5	7071107.3	45.0	-2.0	15.0	-6.0	0.0
4600.0	1337.5	584063.3	7071121.3	50.0	-6.0	10.0	4.0	0.0
4600.0	1350.0	584066.2	7071135.4	69.0	0.0	5.0	-1.0	0.0
4600.0	1362.5	584069.0	7071149.4	60.0	-4.0	5.0	4.0	0.0
4600.0	1375.0	584071.9	7071163.4	35.0	0.0	10.0	2.0	0.0
4600.0	1387.5	584074.7	7071177.5	30.0	0.0	10.0	-2.0	0.0
4600.0	1400.0	584077.6	7071191.5	25.0	-6.0	0.0	0.0	0.0
4600.0	1412.5	584079.5	7071206.3	22.0	8.0	10.0	-8.0	0.0
4600.0	1425.0	584081.5	7071221.0	25.0	-2.0	10.0	-8.0	0.0
4600.0	1437.5	584083.4	7071235.8	0.0	0.0	-5.0	-6.0	0.0
4600.0	1450.0	584085.4	7071250.6	35.0	4.0	10.0	-4.0	0.0
4600.0	1462.5	584087.3	7071265.4	20.0	4.0	18.0	1.0	0.0
4600.0	1475.0	584089.3	7071280.2	15.0	8.0	15.0	-6.0	0.0
4600.0	1487.5	584091.2	7071294.9	6.0	4.0	0.0	2.0	0.0
4600.0	1500.0	584093.2	7071309.7	10.0	10.0	-5.0	8.0	0.0
4600.0	1512.5	584096.1	7071324.8	1.0	6.0	-12.0	10.0	0.0
4600.0	1525.0	584099.1	7071339.8	0.0	8.0	-12.0	8.0	0.0
4600.0	1537.5	584102.0	7071354.9	0.0	6.0	-8.0	-2.0	0.0
4600.0	1550.0	584104.9	7071369.9	10.0	4.0	-4.0	4.0	0.0
4600.0	1562.5	584107.8	7071384.9	0.0	8.0	-5.0	4.0	0.0
4600.0	1575.0	584110.8	7071400.0	2.0	0.0	-5.0	-5.0	0.0
4600.0	1587.5	584113.7	7071415.0	-10.0	10.0	-10.0	3.0	0.0
4600.0	1600.0	584116.6	7071430.1	-3.0	2.0	-8.0	4.0	0.0
4600.0	1612.5	584119.9	7071444.5	5.0	3.0	-15.0	4.0	0.0
4600.0	1625.0	584123.2	7071458.9	0.0	4.0	-8.0	0.0	0.0
4600.0	1637.5	584126.5	7071473.2	-3.0	4.0	-15.0	4.0	0.0
4600.0	1650.0	584129.9	7071487.6	0.0	-2.0	-3.0	4.0	0.0
4600.0	1662.5	584133.2	7071502.0	0.0	-6.0	-15.0	4.0	0.0
4600.0	1675.0	584136.5	7071516.4	20.0	-10.0	-4.0	0.0	0.0
4600.0	1687.5	584139.8	7071530.8	-5.0	-2.0	0.0	0.0	0.0
4600.0	1700.0	584143.1	7071545.2	-10.0	4.0	-8.0	4.0	0.0
4600.0	1712.5	584144.5	7071558.9	-20.0	0.0	-5.0	0.0	0.0
4600.0	1725.0	584146.0	7071572.5	-26.0	-2.0	-10.0	4.0	0.0
4600.0	1737.5	584147.5	7071586.2	-8.0	6.0	25.0	4.0	0.0
4600.0	1750.0	584149.0	7071599.9	-5.0	3.0	0.0	0.0	0.0
4600.0	1762.5	584150.4	7071613.5	20.0	0.0	5.0	-4.0	0.0

4600.0	1775.0	584151.9	7071627.2	22.0	3.0	-2.0	4.0	0.0
4600.0	1787.5	584153.4	7071640.8	15.0	3.0	2.0	8.0	0.0
4600.0	1800.0	584154.9	7071654.5	0.0	0.0	-2.0	8.0	0.0
4600.0	1812.5	584159.6	7071667.9	5.0	0.0	0.0	-2.0	0.0
4600.0	1825.0	584164.2	7071681.2	10.0	4.0	0.0	3.0	-10.
4600.0	1837.5	584168.9	7071694.6	10.0	4.0	0.0	0.0	20.0
4600.0	1850.0	584173.6	7071707.9	20.0	-2.0	10.0	0.0	0.0
4600.0	1862.5	584178.2	7071721.3	15.0	8.0	-3.0	0.0	0.0
4600.0	1875.0	584182.9	7071734.6	25.0	12.0	5.0	0.0	0.0
4600.0	1887.5	584187.6	7071748.0	25.0	-10.0	0.0	10.0	0.0
4600.0	1900.0	584192.3	7071761.4	28.0	-4.0	9.0	-10.0	0.0
4600.0	1912.5	584190.5	7071775.1	5.0	2.0	0.0	0.0	0.0
4600.0	1925.0	584188.7	7071788.9	0.0	0.0	0.0	0.0	0.0
4600.0	1937.5	584186.9	7071802.6	5.0	-4.0	0.0	2.0	0.0
4600.0	1950.0	584185.2	7071816.4	10.0	8.0	-3.0	2.0	0.0
4600.0	1962.5	584183.4	7071830.2	10.0	2.0	5.0	10.0	0.0
4600.0	1975.0	584181.6	7071843.9	20.0	0.0	5.0	0.0	-20.
4600.0	1987.5	584179.9	7071857.7	30.0	4.0	5.0	0.0	0.0
4600.0	2000.0	584178.1	7071871.4	20.0	2.0	10.0	0.0	0.0
4600.0	2012.5	584181.4	7071885.9	20.0	2.0	5.0	-4.0	0.0
4600.0	2025.0	584184.8	7071900.4	25.0	4.0	-10.0	0.0	0.0
4600.0	2037.5	584188.2	7071914.9	15.0	0.0	0.0	0.0	0.0
4600.0	2050.0	584191.5	7071929.4	20.0	-2.0	0.0	-4.0	0.0
4600.0	2062.5	584194.9	7071943.9	10.0	0.0	2.0	-8.0	0.0
4600.0	2075.0	584198.2	7071958.3	0.0	2.0	0.0	0.0	0.0
4600.0	2087.5	584201.6	7071972.8	20.0	4.0	0.0	0.0	0.0
4600.0	2100.0	584204.9	7071987.3	30.0	2.0	5.0	-1.0	0.0
4600.0	2112.5	584208.8	7072001.1	25.0	4.0	3.0	-2.0	0.0
4600.0	2125.0	584212.7	7072014.8	0.0	0.0	-5.0	-2.0	0.0
4600.0	2137.5	584216.6	7072028.5	10.0	6.0	-2.0	-2.0	0.0
4600.0	2150.0	584220.5	7072042.3	5.0	3.0	0.0	8.0	0.0
4600.0	2162.5	584224.4	7072056.0	3.0	0.0	-10.0	0.0	0.0
4600.0	2175.0	584228.3	7072069.8	0.0	0.0	0.0	0.0	0.0
4600.0	2187.5	584232.2	7072083.5	-10.0	0.0	0.0	0.0	0.0
4600.0	2200.0	584236.1	7072097.3	-5.0	-4.0	0.0	0.0	0.0
4600.0	2212.5	584238.8	7072111.2	-25.0	-4.0	-30.0	-2.0	0.0
4600.0	2225.0	584241.6	7072125.2	35.0	-12.0	20.0	0.0	0.0
4600.0	2237.5	584244.4	7072139.1	40.0	0.0	30.0	8.0	0.0
4600.0	2250.0	584247.2	7072153.1	40.0	0.0	-25.0	-4.0	0.0
4600.0	2262.5	584250.0	7072167.0	0.0	0.0	5.0	-10.0	0.0
4600.0	2275.0	584252.8	7072181.0	0.0	-12.0	5.0	-4.0	45.0
4600.0	2287.5	584255.6	7072194.9	2.0	-20.0	-2.0	0.0	0.0
4600.0	2300.0	584258.4	7072208.9	4.0	0.0	-3.0	2.0	0.0
4600.0	2312.5	584259.8	7072221.4	5.0	-2.0	8.0	2.0	0.0
4600.0	2325.0	584261.2	7072234.0	30.0	-2.0	15.0	-2.0	0.0
4600.0	2337.5	584262.7	7072246.6	0.0	-10.0	3.0	-4.0	0.0
4600.0	2350.0	584264.1	7072259.1	-2.0	-8.0	0.0	-2.0	-20.
4600.0	2362.5	584265.6	7072271.7	3.0	-3.0	1.0	2.0	-10.
4600.0	2375.0	584267.0	7072284.3	2.0	-8.0	0.0	-1.0	10.0
4600.0	2387.5	584268.4	7072296.8	0.0	-18.0	0.0	-1.0	0.0
4600.0	2400.0	584269.9	7072309.4	15.0	-8.0	0.0	1.0	0.0
4600.0	2412.5	584272.1	7072322.3	10.0	-10.0	0.0	0.0	0.0
4600.0	2425.0	584274.4	7072335.2	8.0	-2.0	2.0	-4.0	0.0
4600.0	2437.5	584276.7	7072348.1	-10.0	-12.0	-3.0	2.0	0.0
4600.0	2450.0	584279.0	7072360.9	25.0	-12.0	2.0	0.0	-8.0
4600.0	2462.5	584281.3	7072373.8	10.0	-8.0	0.0	0.0	-3.0
4600.0	2475.0	584283.5	7072386.7	5.0	2.0	0.0	0.0	0.0
4800.0	1350.0	584259.1	7071184.7	5.0	-5.0	0.0	5.0	0.0
4800.0	1362.5	584262.4	7071198.7	5.0	10.0	0.0	-10.0	0.0
4800.0	1375.0	584265.7	7071212.8	5.0	12.0	5.0	0.0	0.0

4800.0	1387.5	584269.1	7071226.8	0.0	10.0	10.0	-2.0	0.0
4800.0	1400.0	584272.4	7071240.9	5.0	10.0	0.0	-5.0	0.0
4800.0	1412.5	584275.8	7071254.9	5.0	15.0	0.0	-1.0	0.0
4800.0	1425.0	584279.1	7071268.9	7.0	20.0	0.0	4.0	0.0
4800.0	1437.5	584282.5	7071283.0	10.0	12.0	0.0	2.0	0.0
4800.0	1450.0	584285.8	7071297.0	5.0	42.0	0.0	0.0	0.0
4800.0	1462.5	584286.9	7071310.1	5.0	0.0	0.0	-3.0	0.0
4800.0	1475.0	584287.9	7071323.1	5.0	25.0	0.0	4.0	0.0
4800.0	1487.5	584289.0	7071336.2	10.0	25.0	0.0	4.0	0.0
4800.0	1500.0	584290.0	7071349.2	10.0	35.0	0.0	0.0	0.0
4800.0	1512.5	584291.1	7071362.3	10.0	12.0	0.0	-2.0	0.0
4800.0	1525.0	584292.1	7071375.3	10.0	22.0	3.0	10.0	0.0
4800.0	1537.5	584293.2	7071388.4	45.0	4.0	0.0	0.0	0.0
4800.0	1550.0	584294.3	7071401.5	0.0	16.0	0.0	15.0	0.0
4800.0	1562.5	584298.1	7071415.0	0.0	-8.0	0.0	2.0	0.0
4800.0	1575.0	584301.9	7071428.5	50.0	22.0	0.0	3.0	0.0
4800.0	1587.5	584305.7	7071442.0	0.0	-18.0	0.0	-10.0	0.0
4800.0	1600.0	584309.6	7071455.5	0.0	13.0	0.0	9.0	0.0
4800.0	1612.5	584313.4	7071469.0	0.0	3.0	0.0	9.0	0.0
4800.0	1625.0	584317.2	7071482.5	0.0	10.0	0.0	10.0	0.0
4800.0	1637.5	584321.1	7071496.0	10.0	-10.0	0.0	15.0	0.0
4800.0	1650.0	584324.9	7071509.5	5.0	12.0	2.0	0.0	0.0
4800.0	1662.5	584329.4	7071528.7	0.0	5.0	2.0	2.0	0.0
4800.0	1675.0	584333.9	7071547.8	0.0	15.0	0.0	-5.0	0.0
4800.0	1687.5	584338.5	7071566.9	0.0	15.0	0.0	2.0	0.0
4800.0	1700.0	584343.0	7071586.0	0.0	18.0	0.0	15.0	0.0
4800.0	1712.5	584347.5	7071605.1	0.0	2.0	0.0	2.0	0.0
4800.0	1725.0	584352.1	7071624.3	2.0	20.0	0.0	0.0	0.0
4800.0	1737.5	584356.6	7071643.4	5.0	15.0	0.0	2.0	0.0
4800.0	1750.0	584361.1	7071662.5	10.0	20.0	0.0	10.0	0.0
4800.0	1762.5	584365.3	7071675.7	0.0	10.0	5.0	0.0	0.0
4800.0	1775.0	584369.4	7071689.0	10.0	22.0	5.0	7.0	0.0
4800.0	1787.5	584373.6	7071702.2	10.0	5.0	0.0	-2.0	0.0
4800.0	1800.0	584377.7	7071715.5	10.0	20.0	0.0	0.0	0.0
4800.0	1812.5	584381.9	7071728.7	10.0	5.0	5.0	-3.0	0.0
4800.0	1825.0	584386.0	7071742.0	0.0	5.0	0.0	0.0	0.0
4800.0	1837.5	584390.2	7071755.2	0.0	10.0	7.0	5.0	0.0
4800.0	1850.0	584394.3	7071768.5	-5.0	5.0	0.0	2.0	0.0
4800.0	1862.5	584398.1	7071784.0	0.0	4.0	0.0	-10.0	0.0
4800.0	1875.0	584401.9	7071799.6	7.0	20.0	0.0	-5.0	0.0
4800.0	1887.5	584405.6	7071815.1	10.0	-5.0	5.0	5.0	0.0
4800.0	1900.0	584409.4	7071830.7	0.0	20.0	2.0	12.0	0.0
4800.0	1912.5	584413.2	7071846.3	0.0	13.0	7.0	10.0	0.0
4800.0	1925.0	584416.9	7071861.8	5.0	8.0	0.0	-3.0	0.0
4800.0	1937.5	584420.7	7071877.4	5.0	15.0	0.0	5.0	0.0
4800.0	1950.0	584424.5	7071892.9	0.0	20.0	0.0	10.0	0.0
4800.0	1962.5	584426.0	7071903.4	10.0	10.0	0.0	-8.0	0.0
4800.0	1975.0	584427.6	7071913.8	0.0	5.0	5.0	-5.0	0.0
4800.0	1987.5	584429.2	7071924.3	10.0	10.0	2.0	10.0	0.0
4800.0	2000.0	584430.7	7071934.7	10.0	18.0	10.0	8.0	0.0
4800.0	2012.5	584432.3	7071945.2	20.0	8.0	0.0	-8.0	0.0
4800.0	2025.0	584433.9	7071955.6	10.0	0.0	5.0	0.0	0.0
4800.0	2037.5	584435.4	7071966.1	50.0	15.0	10.0	2.0	0.0
4800.0	2050.0	584437.0	7071976.5	0.0	25.0	0.0	-2.0	0.0
4800.0	2062.5	584438.6	7071987.0	0.0	5.0	5.0	5.0	0.0
4800.0	2075.0	584440.1	7071997.4	5.0	20.0	0.0	10.0	0.0
4800.0	2087.5	584441.7	7072007.9	-5.0	12.0	0.0	13.0	0.0
4800.0	2100.0	584443.3	7072018.4	-15.0	0.0	0.0	2.0	0.0
4800.0	2112.5	584444.8	7072028.8	5.0	20.0	0.0	-10.0	0.0
4800.0	2125.0	584446.4	7072039.3	0.0	20.0	0.0	2.0	0.0

4800.0	2137.5	584447.9	7072049.7	15.0	0.0	0.0	0.0	30.0
4800.0	2150.0	584449.5	7072060.2	10.0	8.0	10.0	8.0	0.0
4800.0	2162.5	584456.2	7072068.0	12.0	20.0	0.0	2.0	0.0
4800.0	2175.0	584462.9	7072075.9	0.0	12.0	0.0	0.0	0.0
4800.0	2187.5	584469.6	7072083.7	10.0	20.0	10.0	2.0	0.0
4800.0	2200.0	584476.3	7072091.6	0.0	20.0	50.0	0.0	0.0
4800.0	2212.5	584483.0	7072099.5	0.0	10.0	5.0	2.0	0.0
4800.0	2225.0	584489.7	7072107.3	30.0	18.0	0.0	6.0	0.0
4800.0	2237.5	584496.3	7072115.2	15.0	15.0	0.0	10.0	0.0
4800.0	2250.0	584503.0	7072123.0	45.0	5.0	5.0	20.0	0.0
4800.0	2262.5	584499.7	7072135.9	0.0	20.0	5.0	12.0	0.0
4800.0	2275.0	584496.3	7072148.9	0.0	25.0	0.0	0.0	0.0
4800.0	2287.5	584493.0	7072161.8	0.0	30.0	0.0	2.0	0.0
4800.0	2300.0	584489.7	7072174.7	0.0	10.0	5.0	10.0	0.0
4800.0	2312.5	584486.3	7072187.6	0.0	10.0	0.0	0.0	0.0
4800.0	2325.0	584483.0	7072200.5	0.0	30.0	0.0	12.0	0.0
4800.0	2337.5	584479.6	7072213.4	10.0	30.0	-15.0	-15.0	-10.
4800.0	2350.0	584476.3	7072226.3	0.0	15.0	0.0	2.0	-10.
5000.0	1150.0	584454.0	7071032.9	-20.0	-10.0	-2.0	-8.0	0.0
5000.0	1162.5	584456.9	7071045.2	3.0	0.0	-7.0	-1.0	0.0
5000.0	1175.0	584459.8	7071057.6	-2.0	-4.0	-6.0	7.0	0.0
5000.0	1187.5	584462.8	7071069.9	1.0	-6.0	-4.0	-8.0	0.0
5000.0	1200.0	584465.7	7071082.3	-5.0	-6.0	-2.0	-8.0	0.0
5000.0	1212.5	584466.6	7071094.4	0.0	-2.0	-4.0	-2.0	0.0
5000.0	1225.0	584467.5	7071106.6	-6.0	-8.0	-5.0	0.0	0.0
5000.0	1237.5	584468.4	7071118.8	-5.0	-8.0	-4.0	0.0	0.0
5000.0	1250.0	584469.3	7071131.0	-6.0	-4.0	-5.0	-2.0	0.0
5000.0	1262.5	584470.2	7071143.2	-3.0	-20.0	-2.0	-8.0	0.0
5000.0	1275.0	584471.1	7071155.3	-5.0	-1.0	-3.0	1.0	0.0
5000.0	1287.5	584472.0	7071167.5	0.0	-6.0	0.0	-6.0	0.0
5000.0	1300.0	584472.9	7071179.7	-4.0	3.0	-4.0	0.0	0.0
5000.0	1312.5	584475.7	7071192.1	-25.0	-9.0	-7.0	-7.0	0.0
5000.0	1325.0	584478.4	7071204.5	-10.0	1.0	-5.0	2.0	0.0
5000.0	1337.5	584481.1	7071217.0	-10.0	-8.0	0.0	-2.0	0.0
5000.0	1350.0	584483.8	7071229.4	-9.0	-2.0	-3.0	1.0	0.0
5000.0	1362.5	584486.5	7071241.8	-7.0	-4.0	-7.0	-3.0	0.0
5000.0	1375.0	584489.2	7071254.2	-8.0	-4.0	-4.0	-2.0	0.0
5000.0	1387.5	584492.0	7071266.6	-12.0	-8.0	-4.0	-6.0	0.0
5000.0	1400.0	584494.7	7071279.0	-10.0	-6.0	-1.0	-3.0	0.0
5000.0	1412.5	584497.4	7071291.2	-9.0	-8.0	0.0	-2.0	-10.
5000.0	1425.0	584500.1	7071303.3	-4.0	-3.0	0.0	-1.0	8.0
5000.0	1437.5	584502.8	7071315.4	0.0	3.0	0.0	0.0	2.0
5000.0	1450.0	584505.5	7071327.5	-15.0	-4.0	-7.0	-4.0	10.0
5000.0	1462.5	584508.2	7071339.6	-7.0	-7.0	-5.0	0.0	0.0
5000.0	1475.0	584510.9	7071351.8	-8.0	-4.0	-7.0	-5.0	0.0
5000.0	1487.5	584513.6	7071363.9	0.0	-12.0	-3.0	-3.0	-5.0
5000.0	1500.0	584516.3	7071376.0	-4.0	-2.0	-5.0	-1.0	5.0
5000.0	1512.5	584516.1	7071388.4	-20.0	-9.0	0.0	-10.0	5.0
5000.0	1525.0	584515.9	7071400.8	-10.0	-2.0	-4.0	-3.0	0.0
5000.0	1537.5	584515.7	7071413.2	-20.0	-7.0	-2.0	-2.0	0.0
5000.0	1550.0	584515.5	7071425.6	-14.0	-10.0	-8.0	-2.0	0.0
5000.0	1562.5	584515.3	7071438.0	-20.0	-12.0	-8.0	-6.0	0.0
5000.0	1575.0	584515.1	7071450.4	-26.0	-18.0	-5.0	-1.0	0.0
5000.0	1587.5	584514.9	7071462.8	-15.0	-4.0	-10.0	-3.0	0.0
5000.0	1600.0	584514.7	7071475.2	-25.0	-2.0	-10.0	2.0	0.0
5000.0	1612.5	584516.6	7071487.1	-8.0	-4.0	-13.0	-4.0	0.0
5000.0	1625.0	584518.5	7071498.9	-10.0	-3.0	-5.0	-6.0	0.0
5000.0	1637.5	584520.5	7071510.7	-26.0	-4.0	-4.0	0.0	0.0
5000.0	1650.0	584522.4	7071522.6	-40.0	-3.0	-5.0	0.0	0.0
5000.0	1662.5	584524.3	7071534.4	-18.0	-4.0	1.0	2.0	0.0

5000.0	1675.0	584526.2	7071546.2	-8.0	-4.0	0.0	-1.0	0.0
5000.0	1687.5	584528.2	7071558.1	-12.0	8.0	0.0	-1.0	0.0
5000.0	1700.0	584530.1	7071569.9	-18.0	20.0	-4.0	1.0	0.0
5000.0	1712.5	584533.1	7071582.2	-20.0	-2.0	-4.0	-4.0	0.0
5000.0	1725.0	584536.2	7071594.6	-4.0	-10.0	-7.0	-2.0	0.0
5000.0	1737.5	584539.2	7071606.9	-20.0	-8.0	4.0	-10.0	0.0
5000.0	1750.0	584542.2	7071619.2	-10.0	0.0	0.0	-5.0	0.0
5000.0	1762.5	584545.2	7071631.5	-10.0	-10.0	-4.0	-4.0	0.0
5000.0	1775.0	584548.3	7071643.8	-4.0	-18.0	-2.0	-10.0	0.0
5000.0	1787.5	584551.3	7071656.2	-38.0	-12.0	-1.0	-10.0	0.0
5000.0	1800.0	584554.3	7071668.5	-25.0	-8.0	-10.0	-12.0	0.0
5000.0	1812.5	584558.3	7071680.4	-25.0	-10.0	-5.0	-2.0	0.0
5000.0	1825.0	584562.3	7071692.3	-20.0	-8.0	0.0	-4.0	0.0
5000.0	1837.5	584566.3	7071704.3	70.0	-7.0	75.0	-3.0	0.0
5000.0	1850.0	584570.3	7071716.2	90.0	-12.0	85.0	2.0	0.0
5000.0	1862.5	584574.3	7071728.1	40.0	-6.0	50.0	-4.0	0.0
5000.0	1875.0	584578.3	7071740.0	45.0	0.0	80.0	6.0	0.0
5000.0	1887.5	584582.3	7071752.0	60.0	-12.0	40.0	2.0	0.0
5000.0	1900.0	584586.2	7071763.9	90.0	-20.0	100.0	2.0	0.0
5000.0	1912.5	584587.3	7071776.6	70.0	-4.0	70.0	6.0	0.0
5000.0	1925.0	584588.4	7071789.3	50.0	-1.0	-4.0	-2.0	0.0
5000.0	1937.5	584589.4	7071802.0	40.0	-8.0	0.0	0.0	0.0
5000.0	1950.0	584590.5	7071814.7	50.0	-8.0	0.0	0.0	0.0
5000.0	1962.5	584591.6	7071827.4	-30.0	-8.0	-2.0	-2.0	0.0
5000.0	1975.0	584592.6	7071840.1	-35.0	0.0	-5.0	4.0	0.0
5000.0	1987.5	584593.7	7071852.8	-60.0	-6.0	0.0	1.0	0.0
5000.0	2000.0	584594.8	7071865.5	-14.0	-6.0	-8.0	0.0	0.0
5000.0	2012.5	584595.8	7071877.4	-5.0	-25.0	0.0	-1.0	0.0
5000.0	2025.0	584596.9	7071889.3	-27.0	-8.0	-8.0	-4.0	0.0
5000.0	2037.5	584598.0	7071901.2	-30.0	-5.0	-6.0	-4.0	0.0
5000.0	2050.0	584599.1	7071913.1	-60.0	-4.0	-5.0	-4.0	0.0
5000.0	2062.5	584600.1	7071924.9	-70.0	-8.0	-5.0	-6.0	0.0
5000.0	2075.0	584601.2	7071936.8	-10.0	-6.0	0.0	-5.0	0.0
5000.0	2087.5	584602.3	7071948.7	-12.0	-10.0	2.0	0.0	0.0
5000.0	2100.0	584603.3	7071960.6	-30.0	-8.0	3.0	10.0	0.0
5000.0	2112.5	584605.1	7071973.0	-10.0	-6.0	-5.0	-2.0	0.0
5000.0	2125.0	584606.9	7071985.4	-30.0	-12.0	0.0	0.0	0.0
5000.0	2137.5	584608.7	7071997.8	-25.0	-4.0	-7.0	-6.0	-33.
5000.0	2150.0	584610.5	7072010.2	-20.0	-9.0	-5.0	-6.0	2.0
5000.0	2162.5	584612.3	7072022.6	-36.0	-6.0	-2.0	-8.0	25.0
5000.0	2175.0	584614.1	7072035.0	-20.0	-4.0	-5.0	-2.0	13.0
5000.0	2187.5	584615.9	7072047.3	-50.0	-8.0	2.0	-12.0	0.0
5000.0	2200.0	584617.7	7072059.7	-2.0	-6.0	4.0	0.0	6.0
5000.0	2212.5	584620.2	7072071.6	-35.0	-10.0	-15.0	-4.0	0.0
5000.0	2225.0	584622.7	7072083.5	-3.0	-8.0	-2.0	-2.0	0.0
5000.0	2237.5	584625.1	7072095.4	-1.0	-2.0	3.0	2.0	0.0
5000.0	2250.0	584627.6	7072107.3	-20.0	-2.0	-2.0	-2.0	0.0
5000.0	2262.5	584630.1	7072119.2	-18.0	-10.0	-3.0	2.0	-18.
5000.0	2275.0	584632.5	7072131.1	-10.0	-12.0	-4.0	-2.0	40.0
5000.0	2287.5	584635.0	7072143.0	-10.0	-30.0	-1.0	0.0	0.0
5000.0	2300.0	584637.5	7072154.9	0.0	20.0	0.0	-1.0	0.0
5000.0	2312.5	584638.3	7072166.7	-3.0	-10.0	-2.0	-4.0	0.0
5000.0	2325.0	584639.2	7072178.5	-2.0	-8.0	0.0	-6.0	0.0
5000.0	2337.5	584640.1	7072190.3	-6.0	-18.0	5.0	8.0	0.0
5000.0	2350.0	584640.9	7072202.1	-3.0	-4.0	0.0	-4.0	0.0
5000.0	2362.5	584641.8	7072213.9	0.0	-18.0	0.0	-1.0	0.0
5000.0	2375.0	584642.7	7072225.7	-2.0	0.0	3.0	-1.0	0.0
5000.0	2387.5	584643.5	7072237.5	0.0	-18.0	1.0	1.0	0.0
5000.0	2400.0	584644.4	7072249.3	-2.0	-10.0	0.0	-4.0	0.0
5000.0	2412.5	584647.6	7072261.2	42.0	2.0	3.0	-2.0	0.0

5000.0	2425.0	584650.9	7072273.1	35.0	-2.0	-3.0	-6.0	12.0
5000.0	2437.5	584654.2	7072285.0	35.0	4.0	-1.0	-10.0	0.0
5000.0	2450.0	584657.5	7072297.0	25.0	6.0	0.0	-1.0	-12.
5000.0	2462.5	584660.8	7072308.9	50.0	8.0	2.0	-4.0	0.0
5000.0	2475.0	584665.0	7072321.2	70.0	-1.0	3.0	0.0	0.0
5000.0	2487.5	584669.3	7072333.5	40.0	-6.0	5.0	4.0	-6.0
5000.0	2500.0	584673.6	7072345.8	30.0	-4.0	4.0	0.0	0.0
5200.0	1150.0	584666.0	7071023.0	-5.0	3.0	-5.0	7.0	-10.
5200.0	1162.5	584668.5	7071035.3	-3.0	2.0	-8.0	10.0	15.0
5200.0	1175.0	584671.0	7071047.7	2.0	-2.0	-7.0	8.0	50.0
5200.0	1187.5	584673.5	7071060.1	0.0	4.0	-6.0	14.0	5.0
5200.0	1200.0	584676.0	7071072.5	-4.0	7.0	-5.0	20.0	0.0
5200.0	1212.5	584677.6	7071085.1	-3.0	-2.0	-1.0	15.0	10.0
5200.0	1225.0	584679.1	7071097.6	-9.0	4.0	-25.0	12.0	0.0
5200.0	1237.5	584680.7	7071110.2	-10.0	6.0	-3.0	3.0	0.0
5200.0	1250.0	584682.3	7071122.7	-10.0	3.0	-5.0	0.0	0.0
5200.0	1262.5	584683.9	7071135.3	-5.0	7.0	-5.0	6.0	0.0
5200.0	1275.0	584685.4	7071147.8	-3.0	0.0	-5.0	3.0	0.0
5200.0	1287.5	584687.0	7071160.4	-2.0	2.0	-8.0	4.0	5.0
5200.0	1300.0	584688.6	7071172.9	-2.0	0.0	-2.0	0.0	15.0
5200.0	1312.5	584691.0	7071182.8	0.0	0.0	-5.0	6.0	-20.
5200.0	1325.0	584693.4	7071192.7	0.0	2.0	-8.0	4.0	0.0
5200.0	1337.5	584695.9	7071202.6	0.0	-6.0	-5.0	2.0	0.0
5200.0	1350.0	584698.3	7071212.4	0.0	1.0	-4.0	4.0	0.0
5200.0	1362.5	584700.7	7071222.3	-10.0	3.0	-2.0	4.0	0.0
5200.0	1375.0	584703.2	7071232.2	-10.0	4.0	-4.0	9.0	0.0
5200.0	1387.5	584705.6	7071242.1	-3.0	5.0	-8.0	4.0	0.0
5200.0	1400.0	584708.0	7071252.0	-4.0	5.0	-7.0	6.0	0.0
5200.0	1412.5	584709.7	7071265.0	-10.0	0.0	-6.0	1.0	0.0
5200.0	1425.0	584711.3	7071278.1	0.0	2.0	-9.0	5.0	0.0
5200.0	1437.5	584713.0	7071291.2	-10.0	12.0	-8.0	5.0	0.0
5200.0	1450.0	584714.6	7071304.3	-5.0	11.0	-3.0	6.0	0.0
5200.0	1462.5	584716.3	7071317.4	-6.0	8.0	-8.0	10.0	0.0
5200.0	1475.0	584717.9	7071330.5	-3.0	0.0	-5.0	5.0	0.0
5200.0	1487.5	584719.5	7071343.6	-6.0	-8.0	-2.0	5.0	0.0
5200.0	1500.0	584721.2	7071356.7	-2.0	11.0	-1.0	5.0	0.0
5200.0	1512.5	584723.7	7071368.6	-8.0	0.0	-3.0	0.0	0.0
5200.0	1525.0	584726.1	7071380.6	2.0	2.0	-4.0	4.0	0.0
5200.0	1537.5	584728.6	7071392.5	0.0	4.0	-2.0	6.0	0.0
5200.0	1550.0	584731.1	7071404.5	0.0	0.0	0.0	2.0	0.0
5200.0	1562.5	584733.5	7071416.4	-2.0	4.0	-4.0	3.0	0.0
5200.0	1575.0	584736.0	7071428.4	0.0	5.0	-5.0	3.0	0.0
5200.0	1587.5	584738.5	7071440.4	0.0	10.0	-4.0	3.0	0.0
5200.0	1600.0	584740.9	7071452.3	-2.0	-2.0	-1.0	1.0	0.0
5200.0	1612.5	584741.8	7071465.0	2.0	0.0	-7.0	-2.0	0.0
5200.0	1625.0	584742.6	7071477.8	-4.0	-4.0	-5.0	0.0	0.0
5200.0	1637.5	584743.5	7071490.5	-4.0	6.0	-3.0	-1.0	0.0
5200.0	1650.0	584744.3	7071503.2	-2.0	2.0	-5.0	-2.0	0.0
5200.0	1662.5	584745.2	7071516.0	-7.0	-2.0	-2.0	1.0	0.0
5200.0	1675.0	584746.0	7071528.7	-10.0	-6.0	0.0	0.0	0.0
5200.0	1687.5	584746.9	7071541.4	-3.0	2.0	12.0	3.0	0.0
5200.0	1700.0	584747.7	7071554.2	-5.0	5.0	0.0	3.0	0.0
5200.0	1712.5	584750.6	7071566.2	-5.0	3.0	3.0	3.0	0.0
5200.0	1725.0	584753.5	7071578.2	-5.0	6.0	4.0	0.0	0.0
5200.0	1737.5	584756.3	7071590.2	-5.0	4.0	5.0	3.0	0.0
5200.0	1750.0	584759.2	7071602.2	-5.0	-10.0	3.0	-3.0	0.0
5200.0	1762.5	584762.0	7071614.2	0.0	1.0	5.0	2.0	0.0
5200.0	1775.0	584764.9	7071626.2	-3.0	1.0	3.0	3.0	0.0
5200.0	1787.5	584767.7	7071638.2	-5.0	-1.0	3.0	2.0	0.0
5200.0	1800.0	584770.6	7071650.2	-5.0	4.0	4.0	-1.0	0.0

5200.0	1812.5	584772.6	7071662.6	-6.0	-1.0	3.0	1.0	0.0
5200.0	1825.0	584774.7	7071674.9	-5.0	8.0	0.0	0.0	0.0
5200.0	1837.5	584776.7	7071687.2	-3.0	6.0	-2.0	8.0	0.0
5200.0	1850.0	584778.8	7071699.6	2.0	4.0	-1.0	0.0	0.0
5200.0	1862.5	584780.8	7071711.9	0.0	3.0	0.0	3.0	0.0
5200.0	1875.0	584782.9	7071724.2	-3.0	0.0	-5.0	3.0	0.0
5200.0	1887.5	584784.9	7071736.6	-5.0	2.0	2.0	3.0	0.0
5200.0	1900.0	584787.0	7071748.9	2.0	6.0	0.0	5.0	0.0
5200.0	1912.5	584790.1	7071759.3	-6.0	-3.0	-2.0	2.0	0.0
5200.0	1925.0	584793.1	7071769.7	-2.0	4.0	-2.0	4.0	0.0
5200.0	1937.5	584796.2	7071780.2	-5.0	4.0	-5.0	4.0	0.0
5200.0	1950.0	584799.3	7071790.6	0.0	3.0	-3.0	6.0	0.0
5200.0	1962.5	584802.3	7071801.0	-2.0	2.0	0.0	5.0	0.0
5200.0	1975.0	584805.4	7071811.4	-2.0	-5.0	-5.0	5.0	0.0
5200.0	1987.5	584808.5	7071821.8	-4.0	5.0	2.0	8.0	0.0
5200.0	2000.0	584811.5	7071832.2	-1.0	2.0	0.0	4.0	0.0
5200.0	2012.5	584812.2	7071844.7	-5.0	-1.0	-2.0	4.0	0.0
5200.0	2025.0	584812.8	7071857.1	-2.0	-3.0	-2.0	3.0	0.0
5200.0	2037.5	584813.4	7071869.6	3.0	0.0	-2.0	4.0	0.0
5200.0	2050.0	584814.1	7071882.0	5.0	-1.0	-6.0	2.0	0.0
5200.0	2062.5	584814.7	7071894.4	8.0	0.0	-3.0	5.0	0.0
5200.0	2075.0	584815.4	7071906.9	5.0	3.0	-7.0	7.0	0.0
5200.0	2087.5	584816.0	7071919.3	4.0	3.0	-5.0	2.0	0.0
5200.0	2100.0	584816.6	7071931.8	3.0	3.0	-5.0	4.0	0.0
5200.0	2112.5	584816.1	7071944.6	1.0	-1.0	-5.0	2.0	0.0
5200.0	2125.0	584815.7	7071957.4	0.0	0.0	-3.0	0.0	0.0
5200.0	2137.5	584815.2	7071970.2	2.0	5.0	-7.0	7.0	-5.0
5200.0	2150.0	584814.7	7071983.0	5.0	-5.0	-2.0	3.0	-75.
5200.0	2162.5	584814.2	7071995.9	8.0	4.0	2.0	4.0	2.0
5200.0	2175.0	584813.7	7072008.7	-2.0	-1.0	-3.0	0.0	3.0
5200.0	2187.5	584813.2	7072021.5	-4.0	-2.0	-4.0	-7.0	3.0
5200.0	2200.0	584812.8	7072034.3	-3.0	-2.0	0.0	3.0	0.0
5200.0	2212.5	584814.1	7072045.7	0.0	2.0	-2.0	2.0	10.0
5200.0	2225.0	584815.4	7072057.0	-1.0	-5.0	0.0	0.0	30.0
5200.0	2237.5	584816.8	7072068.3	0.0	0.0	-1.0	4.0	0.0
5200.0	2250.0	584818.1	7072079.6	0.0	2.0	-2.0	7.0	0.0
5200.0	2262.5	584819.4	7072090.9	3.0	1.0	-1.0	8.0	-30.
5200.0	2275.0	584820.8	7072102.3	2.0	2.0	0.0	4.0	5.0
5200.0	2287.5	584822.1	7072113.6	0.0	2.0	0.0	1.0	5.0
5200.0	2300.0	584823.4	7072124.9	0.0	5.0	-2.0	2.0	-7.0
5200.0	2312.5	584825.6	7072137.1	-3.0	8.0	-3.0	4.0	60.0
5200.0	2325.0	584827.7	7072149.2	-5.0	10.0	-4.0	0.0	0.0
5200.0	2337.5	584829.8	7072161.4	-5.0	-5.0	-4.0	0.0	4.0
5200.0	2350.0	584831.9	7072173.6	2.0	5.0	-5.0	2.0	-5.0
5200.0	2362.5	584834.1	7072185.7	0.0	-4.0	-6.0	-3.0	2.0
5200.0	2375.0	584836.2	7072197.9	5.0	2.0	-6.0	0.0	0.0
5200.0	2387.5	584838.3	7072210.0	3.0	4.0	-5.0	-2.0	15.0
5200.0	2400.0	584840.4	7072222.2	-8.0	3.0	2.0	-5.0	0.0
5200.0	2412.5	584844.6	7072233.3	-20.0	2.0	3.0	-5.0	0.0
5200.0	2425.0	584848.7	7072244.3	-15.0	-3.0	-4.0	-4.0	-5.0
5200.0	2437.5	584852.8	7072255.4	-10.0	-5.0	-2.0	-7.0	0.0
5200.0	2450.0	584856.9	7072266.4	-5.0	-4.0	2.0	-8.0	0.0
5200.0	2462.5	584861.1	7072277.5	0.0	-6.0	0.0	-7.0	0.0
5200.0	2475.0	584865.2	7072288.5	4.0	-3.0	-2.0	-8.0	0.0
5200.0	2487.5	584869.3	7072299.6	5.0	6.0	0.0	-10.0	-10.
5200.0	2500.0	584873.4	7072310.7	5.0	0.0	-2.0	-3.0	0.0