

# FILE NOTATIONS

Entered in NID File ..... ✓  
Location Map Filled ..... ✓  
Card Indexed ..... ✓

Checked by Chief .....  
Approval Letter .....  
Disapproval Letter ....

*PKD*  
10-1-73

## COMPLETION DATA:

Date Well Completed 1-12-75

OW. ✓ WW..... TA.....  
GW..... OS..... PA.....

Location Inspected ....  
Bond released  
State or Fee Land ....

## LOGS FILED

Driller's Log..... ✓  
Electric Logs (No.) ..... ✓  
E..... I..... Dual I Lat..... GR-N..... Micro.....  
BHC Sonic CR..... Lat..... MI-L..... Sonic.....  
CBLog..... CCLog..... Others.....

FEE TRACK  
UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN PLICATE  
(Other in one or several)

Form approved.  
Budget Bureau No. 42-R1473.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK  
DRILL  DEEPEN  PLUG BACK

b. TYPE OF WELL  
OIL WELL  GAS WELL  OTHER Wildcat SINGLE-ZONE  MULTIPLE-ZONE

2. NAME OF OPERATOR American Quasar Petroleum Co. of New Mexico, Energetics, Inc., North Central Oil Co.

3. ADDRESS OF OPERATOR  
606 Vaughn Building, Midland, Texas 79701

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)  
At surface 1780' FS and 1220' FE Section 4, T-2-N, R-7-E  
At proposed prod. zone same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
14 miles east of Coalville, Utah

19. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drilg. unit line, if any)  
1220'

16. NO. OF ACRES IN LEASE  
4564.74

17. NO. OF ACRES ASSIGNED TO THIS WELL  
160

18. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.  
None

19. PROPOSED DEPTH  
17,500'

20. ROTARY OR CABLE TOOLS  
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
6536 Gr.

22. APPROX. DATE WORK WILL START\*  
October 1, 1973

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17-1/2	13-3/8	48	1500	300 sacks
12-1/4	9-5/8	43	9800	300 sacks
8-1/2	7	32	14,500	400 sacks
6	4-1/2	13.5	17,500	400 sacks

Operator proposes to drill the above described well to a depth of approximately 17,500' to test the Weber formation. Potential pay zones will be properly evaluated using geological data, Induction Electric logs and DST's (if warranted). If economical oil or gas production is encountered, a properly designed string of production casing will be run and cemented through all pay zones. After setting surface casing, BOPE will be installed and tested. Daily tests of the BOPE will be conducted and recorded.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

SIGNED [Signature] TITLE Agent for American Quasar DATE 9-25-73

(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_  
ACCEPTED [Signature] TITLE DISTRICT ENGINEER DATE JUL 24 1974  
CONDITIONS OF APPROVAL, IF ANY:

CONDITIONS OF APPROVAL ATTACHED

\*See Instructions On Reverse Side

COPY TO: State OSG

FEE TRACT  
~~UNITED STATES~~  
~~DEPARTMENT OF THE INTERIOR~~  
~~GEOLOGICAL SURVEY~~

SUBMIT IN ~~PLICATE~~  
(Other instructions on reverse side)

Form approved.  
Budget Bureau No. 42-R1425.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK  
DRILL  DEEPEN  PLUG BACK

b. TYPE OF WELL  
OIL WELL  GAS WELL  OTHER Wildcat SINGLE ZONE  MULTIPLE ZONE

2. NAME OF OPERATOR American Quasar Petroleum Co. of New Mexico, Energetics, Inc., North Central Oil Co.

3. ADDRESS OF OPERATOR  
606 Vaughn Building, Midland, Texas 79701

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*  
At surface 1780' FS and 1220' FE Section 4, T-2-N, R-7-E  
At proposed prod. zone same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
14 miles east of Coalville, Utah

15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 1220'

16. NO. OF ACRES IN LEASE  
4564.74

17. NO. OF ACRES ASSIGNED TO THIS WELL  
160

18. DISTANCE FROM PROPOSED LOCATION\* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. None

19. PROPOSED DEPTH  
17,500'

20. ROTARY OR CABLE TOOLS  
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
6536 Gr.

22. APPROX. DATE WORK WILL START\*  
October 1, 1973

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17-1/2 ✓	13-3/8 ✓	48 ✓	1500 ✓	300 sacks ✓
12-1/4	9-5/8 ✓	43 ✓	9800 ✓	300 sacks ✓
8-1/2	7	32	14,500	400 sacks
6	4-1/2	13.5	17,500	400 sacks

Operator proposes to drill the above described well to a depth of approximately 17,500' to test the Weber formation. Potential pay zones will be properly evaluated using geological data, Induction Electric logs and DST's (if warranted). If economical oil or gas production is encountered, a properly designed string of production casing will be run and cemented through all pay zones. After setting surface casing, BOPE will be installed and tested. Daily tests of the BOPE will be conducted and recorded. ✓

*Yls. Orthodal  
Pue de Chalk Creek*

*\* Need letter  
stating pay zone  
600' radius*

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED *R. J. Mohr* TITLE Agent for American Quasar DATE 9-25-73

(This space for Federal or State office use)

PERMIT NO. 43-043-30006

APPROVAL DATE

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_

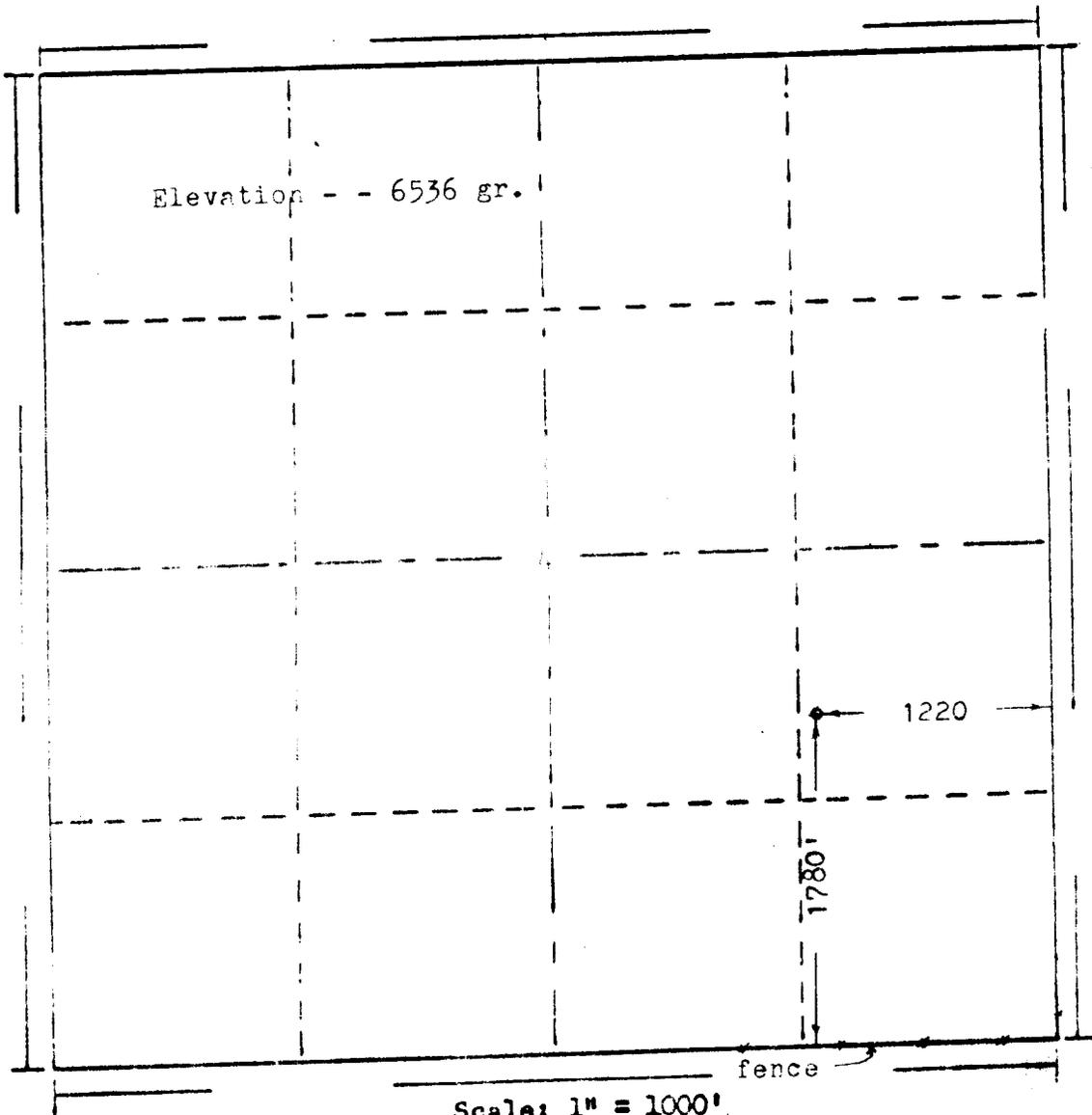
DATE

CONDITIONS OF APPROVAL, IF ANY:

*Bo31*



R. 7 E



T.  
2  
N

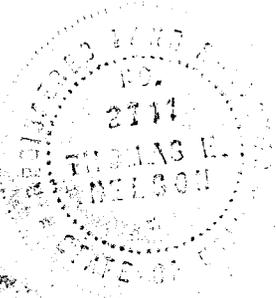
Nelson & Houck, Inc. of Casper, Wyoming  
 has in accordance with a request from Mr. Maher  
 for Energetics - American Quasar Petroleum Co.  
 determined the location of #1 Newton Sheep Ranch  
 to be 1780' from the SE corner of Section 4 Township 2 N.

Range \_\_\_\_\_ Meridian \_\_\_\_\_  
 \_\_\_\_\_ County, \_\_\_\_\_

I hereby certify that this plat is an  
 accurate representation of a correct  
 survey showing the location of  
 #1 Newton Sheep Ranch

Date: 8-17-77

Thomas E. Nelson  
 Licensed Land Surveyor No. 2711  
 State of Utah



**STATE OF UTAH**  
**OIL & GAS CONSERVATION COMMISSION**  
 Salt Lake City 14, Utah

**REPORT OF OPERATIONS AND WELL STATUS REPORT**

State Utah County Summit Field or Lease Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for September, 1973.

Agent's address 332 Pacific Western Life Building Casper, Wyoming 82601 Company American Quasar Pet. Co. of N.M.  
 Signed *A. H. Hurley* A. H. Hurley, Jr.  
 Phone 307-237-9501 Agent's title Division Operations Manager

State Lease No. \_\_\_\_\_ Federal Lease No. U-25426 Indian Lease No. \_\_\_\_\_ Fee & Pat.

Sec. & 1/4 of 1/4	Twp.	Range	Well No.	*Status	Oil Bbls.	Water Bbls.	Gas MCF's	REMARKS (If drilling, Depth; if shut down, Cause; Date & Results of Water Shut-Off Test; Contents of Gas; and Gas-Oil Ratio Test)	
								No. of Days Produced	
NE SE Sec. 4	2N	7E	Newton Sheep Co. #1						Drilled 12,613' to 13,527' - Inc.

Note: There were No runs or sales of oil; No M cu. ft. of gas sold; No runs or sales of gasoline during the month.

NOTE: Report on this form as provided for in Rule C-22. (See back of form.)

\*STATUS: F-Flowing P-Pumping GL-Gas Lift  
 SI-Shut In D-Dead  
 GI-Gas Injection TA-Temp. Aban.  
 WI-Water Injection

FILE IN DUPLICATE

**CONFIDENTIAL**

October 1, 1973

American Quasar Petroleum Co. of New Mexico  
606 Vaughn Building  
Midland, Texas 79701

Re: Newton Sheep Co. Well No. 1  
Sec. 4, T. 2 N, R. 7 E,  
Summit County, Utah

Gentlemen:

Insofar as this office is concerned, approval to drill the above referred to well is hereby granted in accordance with the topographic exception under Rule C-3(c), General Rules and Regulations and Rules of Practice and Procedure. Said approval is, however, conditional upon the following:

- (a) Written notification ~~to~~ this office that your company owns or controls all the acreage within a 660' radius of the proposed site.
- (b) An oil and gas drilling and plugging bond, to be submitted as soon as possible.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

PAUL W. BURCHELL - Chief Petroleum Engineer  
HOME: 277-2890  
OFFICE: 328-5771

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling. Your cooperation relative to the above will be greatly appreciated.

The API number assigned to this well is 43-043-30006.

Very truly yours,

DIVISION OF OIL & GAS CONSERVATION

CLEON B. FEIGHT  
DIRECTOR

**STATE OF UTAH**  
**OIL & GAS CONSERVATION COMMISSION**  
 Salt Lake City 14, Utah

**REPORT OF OPERATIONS AND WELL STATUS REPORT**

State Utah County Summit Field or Lease Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for November & December, 1973.

Agent's address 332 Pacific Western Life Building Casper, Wyoming 82601 Company American Quasar Pet. Co. of N.M.  
 Signed A. H. Hurley, Jr.  
 Phone 307-237-9501 Agent's title Division Operations Manager

State Lease No. \_\_\_\_\_ Federal Lease No. U-25426 Indian Lease No. \_\_\_\_\_ Fee & Pat.

Sec. & 1/4 of 1/4	Twp.	Range	Well No.	*Status	Oil Bbls.	Water Bbls.	Gas MCF's	REMARKS (If drilling, Depth; if shut down, Cause; Date & Results of Water Shut-Off Test; Contents of Gas; and Gas-Oil Ratio Test)		
NE SE Sec 4	2N	7E	Newton Sheep Co. #1					<table border="0"> <tr> <td style="vertical-align: top;">No. of Days Produced</td> <td>Spudded Nov. 29, 1973. Drilled to 1,708'. Set 1,712.44' of 13-3/8" 54.5# ST&amp;C casing at 1,708' and cemented with 1,630 sax cement. Now W.O.C.</td> </tr> </table>	No. of Days Produced	Spudded Nov. 29, 1973. Drilled to 1,708'. Set 1,712.44' of 13-3/8" 54.5# ST&C casing at 1,708' and cemented with 1,630 sax cement. Now W.O.C.
No. of Days Produced	Spudded Nov. 29, 1973. Drilled to 1,708'. Set 1,712.44' of 13-3/8" 54.5# ST&C casing at 1,708' and cemented with 1,630 sax cement. Now W.O.C.									

Note: There were No runs or sales of oil; No M cu. ft. of gas sold; No runs or sales of gasoline during the month.

NOTE: Report on this form as provided for in Rule C-22. (See back of form.)

\*STATUS: F-Flowing P-Pumping GL-Gas Lift  
 SI-Shut In D-Dead  
 GI-Gas Injection TA-Temp. Aban.  
 WI-Water Injection

FILE IN DUPLICATE

**CONFIDENTIAL**

**STATE OF UTAH**  
**OIL & GAS CONSERVATION COMMISSION**  
 Salt Lake City 14, Utah

**REPORT OF OPERATIONS AND WELL STATUS REPORT**

State Utah County Summit Field or Lease Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for

January, 1974.

Agent's address 332 Pacific Western Life Company Building American Quasar Pet. Co. of N.M.  
Casper, Wyoming 82601 Signed *A. H. Hurley, Jr.*  
 A. H. Hurley, Jr.

Phone 307-237-9501 Agent's title Division Operations Manager

State Lease No. \_\_\_\_\_ Federal Lease No. U-25426 & Indian Lease No. \_\_\_\_\_ Fee & Pat.

Sec. & 1/4 of 1/4	Twp.	Range	Well No.	*Status	Oil Bbls.	Water Bbls.	Gas MCF's	REMARKS (If drilling, Depth; if shut down, Cause; Date & Results of Water Shut-Off Test; Contents of Gas; and Gas-Oil Ratio Test)	
								No. of Days Produced	
NE SE Sec. 4	2N	7E	Newton Sheep Co. #1						Drilled 1,708' to 3,708' - Inc.

Note: There were No runs or sales of oil; No M cu. ft. of gas sold; No runs or sales of gasoline during the month.

NOTE: Report on this form as provided for in Rule C-22. (See back of form.)

\*STATUS: F-Flowing P-Pumping GL-Gas Lift  
 SI-Shut In D-Dead  
 GI-Gas Injection TA-Temp. Aban.  
 WI-Water Injection

FILE IN DUPLICATE

**CONFIDENTIAL**

**STATE OF UTAH**  
**OIL & GAS CONSERVATION COMMISSION**  
 Salt Lake City 14, Utah

**REPORT OF OPERATIONS AND WELL STATUS REPORT**

State Utah County Summit Field or Lease Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for

February, 1974.

Agent's address 332 Pacific Western  
Life Building  
Casper, Wyoming 82601

Company American Quasar Pet. Co. of N.M.

Signed *A. H. Hurley, Jr.*  
 A. H. Hurley, Jr.

Phone 307-237-9501

Agent's title Division Operations Manager

State Lease No. \_\_\_\_\_ Federal Lease No. U-25426 & Indian Lease No. \_\_\_\_\_ Fee & Pat.

Sec. & ¼ of ¼	Twp.	Range	Well No.	*Status	Oil Bbls.	Water Bbls.	Gas MCF's	REMARKS (If drilling, Depth; if shut down, Cause; Date & Results of Water Shut-Off Test; Contents of Gas; and Gas-Oil Ratio Test)	
								No. of Days Produced	
NE SE Sec. 4	2N	7E	Newton Sheep Co. #1						Drilled 3,708' to 4,899' - Inc.

Note: There were No runs or sales of oil; No M cu. ft. of gas sold; No runs or sales of gasoline during the month.

NOTE: Report on this form as provided for in Rule C-22. (See back of form.)

\*STATUS: F-Flowing P-Pumping GL-Gas Lift  
 SI-Shut In D-Dead  
 GI-Gas Injection TA-Temp. Aban.  
 WI-Water Injection

FILE IN DUPLICATE

**CONFIDENTIAL**

**STATE OF UTAH**  
**OIL & GAS CONSERVATION COMMISSION**  
 Salt Lake City 14, Utah

**REPORT OF OPERATIONS AND WELL STATUS REPORT**

State Utah County Summit Field or Lease Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for

March, 1974.

Agent's address 332 Pacific Western  
Life Building  
Casper, Wyoming 82601

Company American Quasar Pet. Co. of N.M.

Signed *A. H. Hurley, Jr.*  
 A. H. Hurley, Jr.

Phone 307-237-9501

Agent's title Division Operations Manager

State Lease No. \_\_\_\_\_ Federal Lease No. \_\_\_\_\_ Indian Lease No. \_\_\_\_\_ Fee & Pat.

Sec. & 1/4 of 1/4	Twp.	Range	Well No.	*Status	Oil Bbls.	Water Bbls.	Gas MCF's	REMARKS (If drilling, Depth; if shut down, Cause; Date & Results of Water Shut-Off Test; Contents of Gas; and Gas-Oil Ratio Test)	
								No. of Days Produced	
NE SE Sec. 4	2N	7E	Newton Sheep Co. #1						Drilled 4,899' to 6,869' - Inc.

Note: There were No runs or sales of oil; No M cu. ft. of gas sold; No runs or sales of gasoline during the month.

NOTE: Report on this form as provided for in Rule C-22. (See back of form.)

\*STATUS: F-Flowing P-Pumping GL-Gas Lift  
 SI-Shut In D-Dead  
 GI-Gas Injection TA-Temp. Aban.  
 WI-Water Injection

FILE IN DUPLICATE

**CONFIDENTIAL**

**STATE OF UTAH**  
**OIL & GAS CONSERVATION COMMISSION**  
 Salt Lake City 14, Utah

**REPORT OF OPERATIONS AND WELL STATUS REPORT**

State Utah County Summit Field or Lease Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for

April, 1974.

Agent's address 332 Pacific Western Life Building Casper, Wyoming 82601 Company American Quasar Pet. Co. of N.M.  
 Signed A. H. Hurley, Jr.

Phone 307-237-9501 Agent's title Division Operations Manager

State Lease No. \_\_\_\_\_ Federal Lease No. U-25426 Indian Lease No. \_\_\_\_\_ Fee & Pat.

Sec. & 1/4 of 1/4	Twp.	Range	Well No.	*Status	Oil Bbls.	Water Bbls.	Gas MCF's	REMARKS (If drilling, Depth; if shut down, Cause; Date & Results of Water Shut-Off Test; Contents of Gas; and Gas-Oil Ratio Test)	
								No. of Days Produced	
NE SE Sec. 4	2N	7E	Newton Sheep Co. #1						Drilled 6,869' to 8,264' - Inc.

Note: There were No runs or sales of oil; No M cu. ft. of gas sold; No runs or sales of gasoline during the month.

NOTE: Report on this form as provided for in Rule C-22. (See back of form.)

\*STATUS: F-Flowing P-Pumping GL-Gas Lift  
 SI-Shut In D-Dead  
 GI-Gas Injection TA-Temp. Aban.  
 WI-Water Injection

FILE IN DUPLICATE

CONFIDENTIAL

STATE OF UTAH  
OIL & GAS CONSERVATION COMMISSION  
Salt Lake City 14, Utah

**REPORT OF OPERATIONS AND WELL STATUS REPORT**

State Utah County Summit Field or Lease Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for

May, 1974.

Agent's address 332 Pacific Western  
Life Building  
Casper, Wyoming 82601

Company American Quasar Pet. Co. of N.M.

Signed *A. H. Hurley, Jr.*  
A. H. Hurley, Jr.

Phone 307-237-9501

Agent's title Division Operations Manager

State Lease No. \_\_\_\_\_ Federal Lease No. U-25426 & Indian Lease No. \_\_\_\_\_ Fee & Pat.

Sec. & ¼ of ¼	Twp.	Range	Well No.	*Status	Oil Bbls.	Water Bbls.	Gas MCF's	REMARKS (If drilling, Depth; if shut down, Cause; Date & Results of Water Shut-Off Test; Contents of Gas; and Gas-Oil Ratio Test)	
								No. of Days Produced	
NE SE Sec. 4	2N	7E	Newton Sheep Co. #1						Drilled 8,264' to 9,592' - Inc.

Note: There were No runs or sales of oil; No M cu. ft. of gas sold; No runs or sales of gasoline during the month.

NOTE: Report on this form as provided for in Rule C-22. (See back of form.)

\*STATUS: F-Flowing P-Pumping GL-Gas Lift  
SI-Shut In D-Dead  
GI-Gas Injection TA-Temp. Aban.  
WI-Water Injection

FILE IN DUPLICATE

**CONFIDENTIAL**

**STATE OF UTAH**  
**OIL & GAS CONSERVATION COMMISSION**  
 Salt Lake City 14, Utah

**REPORT OF OPERATIONS AND WELL STATUS REPORT**

State Utah County Summit Field or Lease Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for

June, 1974.

Agent's address 332 Pacific Western  
Life Building  
Casper, Wyoming 82601

Company American Quasar Pet. Co. of N.M.

Signed *A. H. Hurley, Jr.*  
 A. H. Hurley, Jr.

Phone 307-237-9501

Agent's title Division Operations Manager

State Lease No. \_\_\_\_\_ Federal Lease No. U-25426 & Indian Lease No. \_\_\_\_\_ Fee & Pat.

Sec. & 1/4 of 1/4	Twp.	Range	Well No.	*Status	Oil Bbls.	Water Bbls.	Gas MCF's	REMARKS (If drilling, Depth; if shut down, Cause; Date & Results of Water Shut-Off Test; Contents of Gas; and Gas-Oil Ratio Test)
NE SE Sec. 4	2N	7E	Newton Sheep Co. #1					No. of Days Produced Drilled 9,592' to 10,984'. Ran Schlumberger CNL; DIL and Dipmeter. Now running 9-5/8" casing - Inc.

Note: There were No runs or sales of oil; No M cu. ft. of gas sold; No runs or sales of gasoline during the month.

NOTE: Report on this form as provided for in Rule C-22. (See back of form.)

\*STATUS: F-Flowing P-Pumping GL-Gas Lift  
 SI-Shut In D-Dead  
 GI-Gas Injection TA-Temp. Aban.  
 WI-Water Injection

FILE IN DUPLICATE

**CONFIDENTIAL**

July 23, 1974

American Quasar Petroleum Company  
606 Vaughn Building  
Midland, Texas 79701

Re: Well No. Newton Sheep Co. #1  
Sec. 4, T. 2 N, R. 7 E,  
Summit County, Utah

Gentlemen:

This letter is to advise you that we have not as yet received a "Monthly Report of Operations" for the months of October '73 thru' June '74 on the subject well.

Rule C-22, General Rules and Regulations and Rules of Practice and Procedure, requires that said reports be filed on or before the sixteenth (16) day of the succeeding month. This report may be filed on Form OGC-1b (U.S. Geological Survey 9-331) "Sundry Notices and Reports on Wells", or on company forms containing substantially the same information. We are enclosing forms for your convenience.

Thank you for your prompt attention to the above.

Very truly yours,

DIVISION OF OIL AND GAS CONSERVATION

SCHEREE WILCOX  
EXECUTIVE SECRETARY

/sw

Conservation Division  
2426 Federal Building  
Salt Lake City, Utah 84136

July 24, 1974

Mr. A. H. Marley  
American Quaker Petroleum Company  
332 Pacific Western Life Building  
Casper, Wyoming 82401

Re: Well No. 1 Newton Sharp Company  
NE1/4 sec. 4, T. 2 N., R. 7 E.,  
S.L.M., Summit County, Utah  
Lease U 25426 (Acquired)

Dear Mr. Marley:

Enclosed is your copy of the Application for Permit to Drill the referenced well which was accepted for the record by this office on July 24, 1974.

The record shows that the referenced well was spudded November 29, 1973, after your receipt of approval of the permit by the State of Utah Division of Oil and Gas Conservation. The well is now drilling below 10,500 feet and is scheduled to be drilled to 17,500 feet to test the Madison formation.

At the time the drilling operation commenced it was believed that the land was 100 percent privately owned. It was subsequently discovered that a 50 percent ownership in the oil and gas had vested in the United States. Lease U 25426 was issued effective June 1, 1974, to Colorado Energetics, Inc., which posted a \$10,000 lessee's bond on June 18, 1974. The lease was issued under the provisions of the Mineral Leasing Act for Acquired Lands of August 7, 1947.

We have attached a form to the permit entitled "Conditions of Approval". This form was attached to describe the procedures and forms we wish to have filed in the future. We would appreciate your sending a copy of your daily drilling report but if you would rather, you may send a weekly activity summary on our Safety Notice form.

Even though the well is already drilling due to the foregoing circumstances, we would appreciate your completing and returning to us a 12-point development plan for surface use and providing the pressure control and monitoring data specified in the 7-point listing in accordance with the attached samples.

Sincerely,

CAROL R. DANIELS

Catald R. Daniels  
District Engineer

cc: Reg. Mgr., Denver  
O&G, Casper  
✓ Div. O&G Conservation

**STATE OF UTAH**  
**OIL & GAS CONSERVATION COMMISSION**  
 Salt Lake City 14, Utah

**REPORT OF OPERATIONS AND WELL STATUS REPORT**

State Utah County Summit Field or Lease Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for

July, 1974.

Agent's address 332 Pacific Western Life Building Company American Quasar Pet. Co. of N.M.  
Casper, Wyoming 82601 Signed A. H. Hurley, Jr.

Phone 307-237-9501 Agent's title Division Operations Manager

State Lease No. \_\_\_\_\_ Federal Lease No. U-25426 & Indian Lease No. \_\_\_\_\_ Fee & Pat.

Sec. & 1/4 of 1/4	Twp.	Range	Well No.	*Status	Oil Bbls.	Water Bbls.	Gas MCF's	REMARKS (If drilling, Depth; if shut down, Cause; Date & Results of Water Shut-Off Test; Contents of Gas; and Gas-Oil Ratio Test)		
NE SE Sec. 4	2N	7E	Newton Sheep Co. #1					<table border="1"> <tr> <td>No. of Days Produced</td> <td>                     Ran 253 jts. 9-5/8" 40# &amp; 43.5# S-95 and CYN-80 casing and set at 10,989'. Cemented in three stages using a total of 3,650 sax. Good returns. Picked up BOP, set slips on 9-5/8", cut off 9-5/8" casing and reset BOP stack and closed blind rams.                       Rig released for rig repairs at 12 mid-night 7-2-74.                       Resumed drilling operations July 26, 1974. Pressure tested BOP stack and surface equipment to 5000#. Drilled cement and DV tools. Now picking up drill pipe to drill bottom plug. Incomplete.                 </td> </tr> </table>	No. of Days Produced	Ran 253 jts. 9-5/8" 40# & 43.5# S-95 and CYN-80 casing and set at 10,989'. Cemented in three stages using a total of 3,650 sax. Good returns. Picked up BOP, set slips on 9-5/8", cut off 9-5/8" casing and reset BOP stack and closed blind rams.  Rig released for rig repairs at 12 mid-night 7-2-74.  Resumed drilling operations July 26, 1974. Pressure tested BOP stack and surface equipment to 5000#. Drilled cement and DV tools. Now picking up drill pipe to drill bottom plug. Incomplete.
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Note: There were No runs or sales of oil; No M cu. ft. of gas sold; No runs or sales of gasoline during the month.

NOTE: Report on this form as provided for in Rule C-22. (See back of form.)

\*STATUS: F-Flowing P-Pumping GL-Gas Lift  
 SI-Shut In D-Dead  
 GI-Gas Injection TA-Temp. Aban.  
 WI-Water Injection

FILE IN DUPLICATE

CONFIDENTIAL

**STATE OF UTAH**  
**OIL & GAS CONSERVATION COMMISSION**  
 Salt Lake City 14, Utah

**REPORT OF OPERATIONS AND WELL STATUS REPORT**

State Utah County Summit Field or Lease Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for

August, 1974.

Agent's address 332 Pacific Western Company American Quasar Pet. Co. of N.M.  
Life Building  
Casper, Wyoming 82601 Signed A. H. Hurley, Jr.

Phone 307-237-9501 Agent's title Division Operations Manager

State Lease No. \_\_\_\_\_ Federal Lease No. U-25426 & Indian Lease No. \_\_\_\_\_ Fee & Pat.

Sec. & 1/4 of 1/4	Twp.	Range	Well No.	*Status	Oil Bbls.	Water Bbls.	Gas MCF's	REMARKS (If drilling, Depth; if shut down, Cause; Date & Results of Water Shut-Off Test; Contents of Gas; and Gas-Oil Ratio Test)
NE SE Sec. 4	2N	7E	Newton Sheep Co. #1					No. of Days Produced Drilled cement, float collar and guide shoe from 10,566' to 10,989'.  Drilled 10,989' to 10,992'. Ran Cement Bond Log from 10,985' to surface.  Drilled 10,992' to 12,613' - Incomplete.

Note: There were No runs or sales of oil; No M cu. ft. of gas sold; No runs or sales of gasoline during the month.

NOTE: Report on this form as provided for in Rule C-22. (See back of form)

\*STATUS: F-Flowing P-Pumping GL-Gas Lift  
 SI-Shut In D-Dead  
 GI-Gas Injection TA-Temp. Aban.  
 WI-Water Injection

FILE IN DUPLICATE

**CONFIDENTIAL**

**STATE OF UTAH**  
**OIL & GAS CONSERVATION COMMISSION**  
 Salt Lake City 14, Utah

**REPORT OF OPERATIONS AND WELL STATUS REPORT**

State Utah County Summit Field or Lease Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for

October, 1974.

Agent's address 332 Pacific Western Life Building Company American Quasar Pet. Co. of N.M.  
Casper, Wyoming 82601 Signed A. H. Hurley, Jr.

Phone 307-237-9501 Agent's title Division Operations Manager

State Lease No. \_\_\_\_\_ Federal Lease No. U-25426 & Indian Lease No. \_\_\_\_\_ Fee & Pat.

Sec. & 1/4 of 1/4	Twp.	Range	Well No.	*Status	Oil Bbls.	Water Bbls.	Gas MCF's	REMARKS (If drilling, Depth; if shut down, Cause; Date & Results of Water Shut-Off Test; Contents of Gas; and Gas-Oil Ratio Test)	
								No. of Days Produced	
NE SE Sec. 4	2N	7E	Newton Sheep Co. #1						Drilled 13,527' to 14,210' - Incomplete.

Note: There were No runs or sales of oil; No M cu. ft. of gas sold; No runs or sales of gasoline during the month.

NOTE: Report on this form as provided for in Rule C-22. (See back of form.)

\*STATUS: F-Flowing P-Pumping GL-Gas Lift  
 SI-Shut In D-Dead  
 GI-Gas Injection TA-Temp. Aban.  
 WI-Water Injection

FILE IN DUPLICATE

**CONFIDENTIAL**

November 15, 1974

American Quasar Petroleum Company  
332 Pacific Western Life Bldg.  
Casper, Wyoming

ATTENTION: M.H. Hurley, Jr.

Re: Well No's:  
Cow Hollow Unit #1  
Sec. 17, T. 2 N, R. 11 E,  
Newton Sheep Co. Fee #1  
Sec. 4, T. 2 N, R. 7 E,  
Summit County, Utah

Dear Mr. Hurley:

Our records indicate that you have not filed a Monthly Report of Operations for the months of October, 1973 thru' October, 1974 on the subject wells.

Rule C-22(1), General Rules and Regulations requires that said reports be filed on or before the sixteenth (16) day of the succeeding month.

Therefore, if we do not receive the necessary reports by December 1, 1974, this matter will be turned over to the the Attorney General's office for legal action.

Very truly yours,

DIVISION OF OIL & GAS CONSERVATION

CLEON B. FEIGHT  
DIRECTOR

CBF:sw

**STATE OF UTAH**  
 DEPARTMENT OF NATURAL RESOURCES  
 DIVISION OF OIL & GAS CONSERVATION

1588 WEST NORTH TEMPLE  
 SALT LAKE CITY, UTAH 84116  
 328-5771

State Lease No. \_\_\_\_\_  
 Federal Lease No. U-25426  
 Indian Lease No. \_\_\_\_\_  
 Fee & Pat. X

**REPORT OF OPERATIONS AND WELL STATUS REPORT**

STATE Utah COUNTY Summit FIELD/LEASE Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for the month of:  
November, 1974

Agent's Address 332 Pacific Western Life Bldg. Company American Quasar Petroleum Co.  
Casper, Wyoming 82601 Signed [Signature]  
 Title Division Operations Manager  
 Phone No. 307-237-9501

Sec. and ¼ of ¼	Twp.	Range	Well No.	Days Produced	Barrels of Oil	Gravity	Cu. Ft. of Gas (In thousands)	Gallons of Gasoline Recovered	Barrels of Water (if none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
Sec. 4 NE SE	2N	7E	Newton Sheep Co. No. 1							Drilled 14,210' to 14,432' - Incomplete.

**GAS: (MCF)**

Sold None  
 Flared/Vented None  
 Used On/Off Lease None

**OIL or CONDENSATE: (To be reported in Barrels)**

On hand at beginning of month None  
 Produced during month None  
 Sold during month None  
 Unavoidably lost \_\_\_\_\_  
 Reason: \_\_\_\_\_  
 of month None

**~~CONFIDENTIAL~~**

**DRILLING/PRODUCING WELLS:** This report must be filed on or before the sixteenth day of the succeeding month following production for each well. Where a well is temporarily shut-in, a negative report must be filed. **THIS REPORT MUST BE FILED IN DUPLICATE.**

STATE OF UTAH  
OIL & GAS CONSERVATION COMMISSION

SUBMIT IN DUPLICATE\*

(See other instructions on reverse side)

Fee and

3. LEASE DESIGNATION AND SERIAL NO.

U-25426

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

5. FARM OR LEASE NAME

Newton Sheep Company

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Wildcat

11. SEC. T. R. M. OR BLOCK AND SURVEY OR AREA

Sec. 4, T-2N, R-7E

12. COUNTY OR PARISH  
Summit

13. STATE  
Utah

19. ELEV. CASINGHEAD

WELL COMPLETION OR RECOMPLETION REPORT AND LOG\*

1a. TYPE OF WELL: OIL WELL  GAS WELL  DRY  Other \_\_\_\_\_

1b. TYPE OF COMPLETION: NEW WELL  WORK OVER  DEEP-EN  PLUG BACK  DIFF. RESER.  Other \_\_\_\_\_

2. NAME OF OPERATOR  
American Quasar Petroleum Company of New Mexico

3. ADDRESS OF OPERATOR  
332 Pacific Western Life Bldg., Casper, Wyoming 82601

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\*  
At surface 1,780' FSL & 1,220' FEL (NE SE)

At top prod. interval reported below

At total depth

14. PERMIT NO. DATE ISSUED

15. DATE SPUDDED 11-29-73 16. DATE T.D. REACHED 12-4-74 17. DATE COMPL. (Ready to prod.) 1-12-75 18. ELEVATIONS (DF, HSB, BT, GR, ETC.)\* GL 6,555'; KB 6,574'

20. TOTAL DEPTH, MD & TVD 14,500' 21. PLUG BACK T.D., MD & TVD 10,000' 22. IF MULTIPLE COMPL., HOW MANY\* 23. INTERVALS DRILLED BY ROTARY TOOLS 0'-14,500' CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\*  
Nugget - 9,928' - 9,936'

25. WAS DIRECTIONAL SURVEY MADE  
Yes

26. TYPE ELECTRIC AND OTHER LOGS RUN Schlumberger DIL; BHC Sonic; CNL-FDC; Dipmeter and Geophone

27. WAS WELL CORED  
No

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13-3/8"	54.5#	1,708'	17-1/2"	1,630 sax	-0-
9-5/8"	40# & 43.5#	10,989'	12-1/4"	3,650 sax	-0-

29. LINER RECORD					30. TUBING RECORD		
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					3-1/2"	9,916'	9,916'

31. PERFORATION RECORD (Interval, size and number)		32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
DEPTH INTERVAL (MD)	NUMBER	DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
9,928'-31'	- 4, 22 gram SPF	10,024'-10,036'	Squeezed w/100 sax - reversed out 41 sax.
9,931'-36'	- 2, 22 gram SPF		
10,024'-36'	- 4, 22 gram SPF		

33. PRODUCTION							
DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
12-21-74		Flowing				Producing	
DATE OF TEST	HOURS TESTED	CHOKER SIZE	PROD'N. FOR TEST PERIOD	OIL—BSL.	GAS—MCF.	WATER—BSL.	GAS-OIL RATIO
1-21-75	24	16/64"	→	540	270	226	500
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BSL.	GAS—MCF.	WATER—BSL.	OIL GRAVITY-API (CORR.)	
1000	650	→	540	270	226	45.0 @ 60°	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)  
Vented

TEST WITNESSED BY  
Don Wright

35. LIST OF ATTACHMENTS  
One attachment - Drill Stem Tests

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

A. H. Hurley, Jr.

**CONFIDENTIAL**

DATE 1-29-75

# INSTRUCTIONS

**General:** This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

**Item 4:** If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

**Item 18:** Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments. **Item 22 and 24:** If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

**Item 29: "Sacks Cement":** Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

**Item 33:** Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

1975

37. SUMMARY OF POROUS ZONES: SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENT THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERY		38. GEOLOGIC MARKERS	
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
Nugget	9,928'	9,936'	Oil and gas
Nugget	10,024'	10,036'	See Attachment No. 1
Ankareh	11,360'	11,428'	See Attachment No. 1

NAME	MEAS. DEPTH	
	TOP	THUS FST. DEPTH
Mowrey-Aspen	1,500'	
Kelvin	3,700'	
Morrison	6,200'	
Stump	6,600'	
Pruess	7,000'	
Twin Creek ls	8,770'	
Cyp Springs	9,680'	
Nugget	9,820'	

EXHIBIT "E"  
Newton Sheep Co. No. 1

Well Data Sheet

Well: Newton Sheep Co. No. 1

Location: 1780' FSL & 1220' FEL (NE SE) Sec. 4, T. 2N, R. 7E,  
Summit County, Utah

Elevation: 6536 GL; 6555 KB

TD: 14,500'

PBTD: 10,900'

Date completed: 1/12/75

Surface csg: 13-3/8", 54.5#, K-55, ST&C cemented @ 1708' w/1630 sx.

Production csg: 9-5/8", 253 jts. 40 & 43.5#, S-95 & CYN-80, LT&C,  
w/DV tools @ 6162' & 2413' w/1st stage 800 sx Class G  
w/15% NaCl, 0.2% HR<sub>4</sub> & 0.75% CFR<sub>2</sub>; 2nd stage 1350 sx  
50-50 Pozmix w/2% gel, 10% NaCl & 0.75% CFR<sub>2</sub>; and  
3rd stage w/1500 sx 50-50 Pozmix w/2% gel, 10% NaCl  
& 0.75% CFR<sub>2</sub>.

Production Liner: None.

Liner Hanger: None.

Formation Tops: Mowry-Aspen 1500; Kelvin 3700; Morrison 6200; Stump 6600;  
Pruess 7000; Twin Crk ls 8770; Gyp Springs 9680; Nugget 9820.

Bridge Plug: Howco E-Z Drill @ 10,900' w/4 sx cement.

Retainer: Howco SV cement retainer @ 10,000'.

Perforations: 9,928-31'; 9,931-36'; 10,024-36' (squeezed).

Tubing: 3½", 9.30#, N-80, EUE tbg. landed in Model "D" pkr.  
w/20,000# set-down wt.

Packer: Baker Model "D" set @ 9916'.

I.P.: Flowing 540 BO plus 226 BW plus 270 MCF gas (GOR 500)  
on 16/64" chk w/1000 psi FTP in 24 hrs.



EXHIBIT "F"  
AMERICAN QUASAR PETROLEUM CO.  
 RESERVE DATA SHEET

Lease Name: Newton Sheep Co. #1  
 Lease Loc: SE/4 Sec. 4, T. 2N, R. 7E  
 Lease Acreage: 358.69  
 Lease Number: U-25426  
 Code Number: \_\_\_\_\_  
 Date of Initial Production: 1/21/75

Field: Wildcat  
 County: Summit  
 State: Utah  
 Quasar's Interest (Gross): 87.5  
 Quasar's Interest (Net): 69  
 Number of Prod. Wells: 1

PRODUCING FORMATION:

Nugget

EFFECTIVE PAY THICKNESS:

133

PROVEN DEVELOPED ACREAGE:

160

PROVEN DEVELOPED ACRE-FEET:

21,280

POROSITY:

9.95%

WATER SATURATION:

49.09%

FORMATION VOLUME FACTOR:

1.25

RESERVOIR PRESSURE:

4225

RESERVOIR TEMPERATURE:

200

SPECIFIC GRAVITY (GAS):

0.773

SPECIFIC GRAVITY (OIL):

0.7958

ORIGINAL GAS IN SOLUTION SCF/STB:

800

RECOVERY EFFICIENCY:

35%

PERMEABILITY EFFICIENCY FACTOR:

65%

EST. ULTIMATE OIL RECOVERY PER AC-FT:

71.52 bbl

EST. ULTIMATE OIL RECOVERY:

1,522,000.00 bbl

EST. ULTIMATE GAS RECOVERY:

1,217,600 MCF

EST. LIQUID RECOVERY FROM GAS:

3,652,800.00 gal

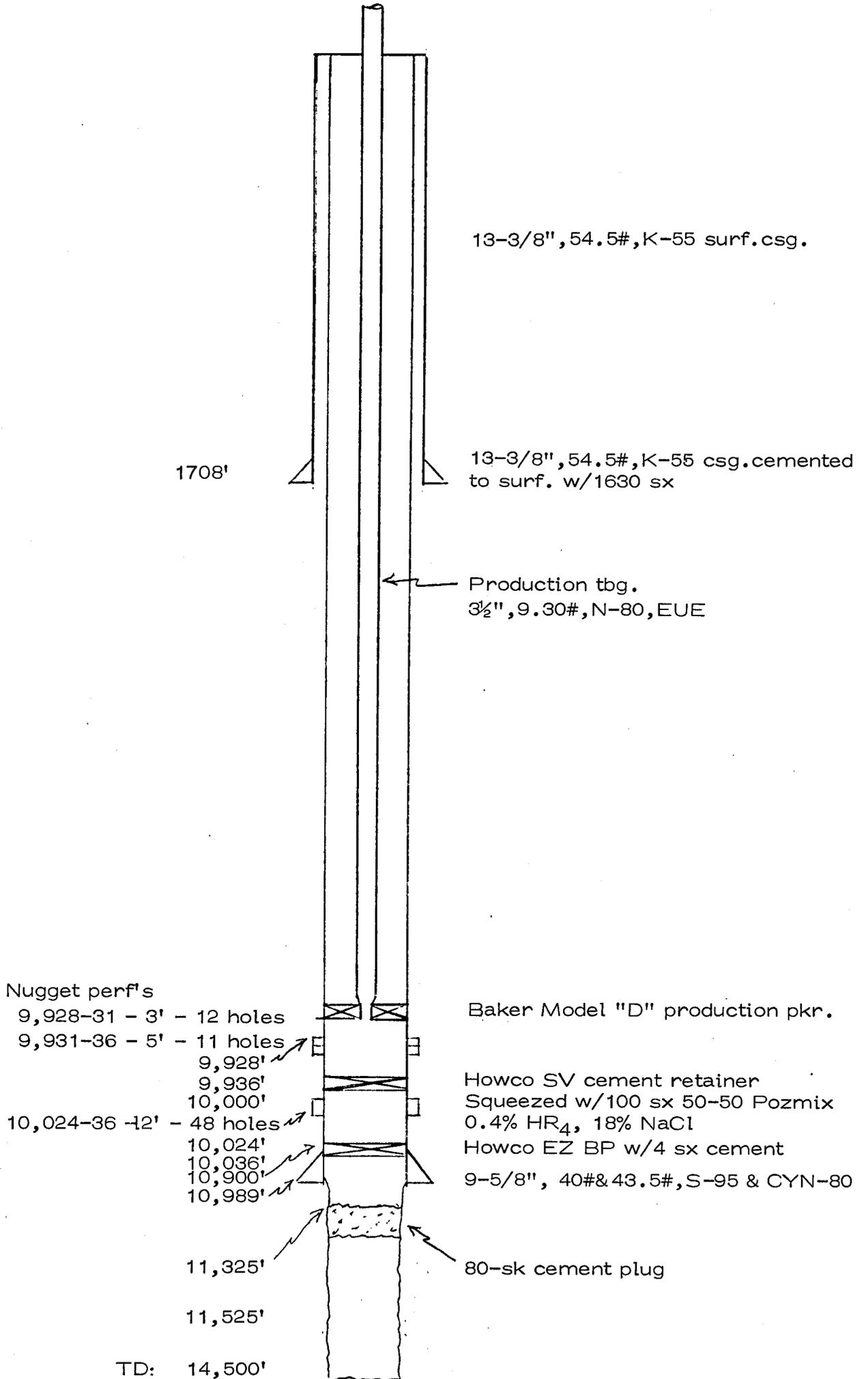
Primary

Secondary



NEWTON SHEEP CO. #1  
 SE/4 Sec. 4, T. 2N, R. 7E  
 Summit County, Utah

Completion Detail  
 (Attachment to Exhibit "E")  
 Datum KB



# CHEMICAL & GEOLOGICAL LABORATORIES

P. O. Box 2794  
Casper, Wyoming

## WATER ANALYSIS REPORT

OPERATOR American Quasar Petroleum Corp DATE February 21, 1975 LAB NO. 15303-1  
 WELL NO. 1 Newton Sheep LOCATION NE SE 4-2N-7E  
 FIELD Wildcat FORMATION Nugget  
 COUNTY Summit INTERVAL \_\_\_\_\_  
 STATE Utah SAMPLE FROM Production Test (2-7-75)

REMARKS & CONCLUSIONS: Rusty water.

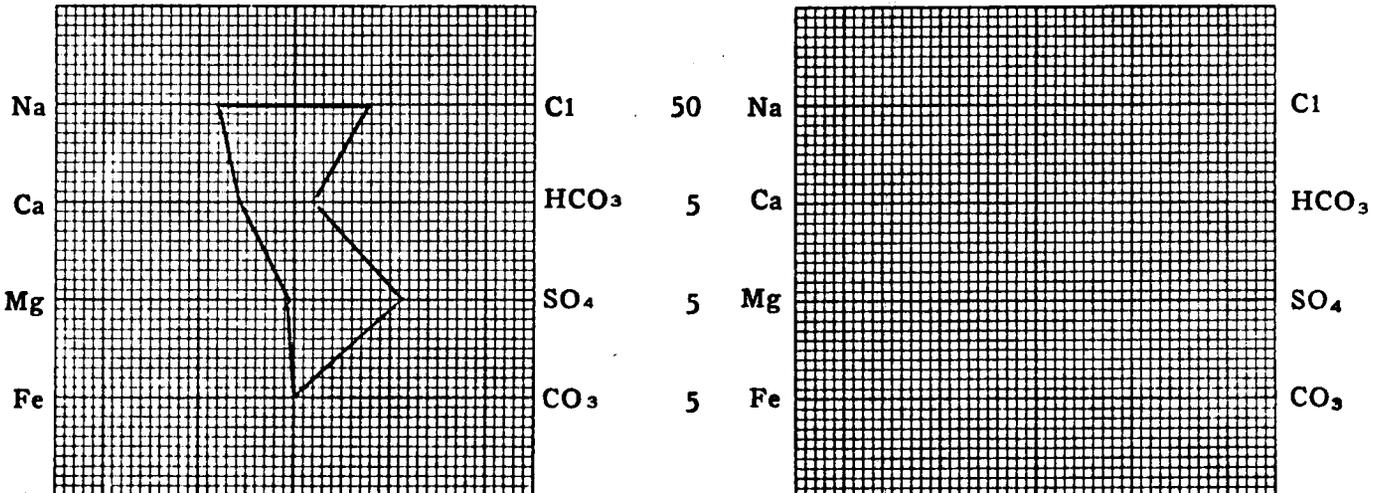
<u>Cations</u>			<u>Anions</u>		
	<u>mg/l</u>	<u>meq/l</u>		<u>mg/l</u>	<u>meq/l</u>
Sodium	9267	403.13	Sulfate	2600	54.08
Potassium	441	11.29	Chloride	13500	380.70
Lithium			Carbonate	-	-
Calcium	549	27.40	Bicarbonate	610	10.00
Magnesium	36	2.96	Hydroxide		
Iron	Present		Hydrogen sulfide		
<b>Total Cations</b>			<b>Total Anions</b>		
		444.78			444.78

Total dissolved solids, mg/l - - - - - 26693  
 NaCl equivalent, mg/l - - - - - 25266  
 Observed pH - - - - - 7.3

Specific resistance @ 68°F.:  
 Observed - - - - - 0.30 ohm-meters  
 Calculated - - - - - 0.28 ohm-meters

### WATER ANALYSIS PATTERN

Scale  
Sample above described MEQ per Unit



(Na value in above graphs includes Na, K, and Li)  
 NOTE: Mg/l=Milligrams per liter Meq/l= Milligram equivalents per liter  
 Sodium chloride equivalent=by Dunlap & Hawthorne calculation from components

**STATE OF UTAH**  
**DEPARTMENT OF NATURAL RESOURCES**  
**DIVISION OF OIL & GAS CONSERVATION**

1588 WEST NORTH TEMPLE  
 SALT LAKE CITY, UTAH 84116  
 328-5771

State Lease No. \_\_\_\_\_  
 Federal Lease No. U-25426 &  
 Indian Lease No. \_\_\_\_\_  
 Fee & Pat. Fee \_\_\_\_\_

**REPORT OF OPERATIONS AND WELL STATUS REPORT**

STATE Utah COUNTY Summit FIELD/LEASE Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for the month of:  
December, 19 74.

Agent's Address 332 Pacific Western Life Bldg. Company American Gas & Petroleum Company  
Casper, Wyoming 82601 Signed [Signature]  
 Title Division Operations Manager  
 Phone No. 307-237-9501

Sec. and % of %	Twp.	Range	Well No.	Days Produced	Barrels of Oil	Gravity	Cu. Ft. of Gas (In thousands)	Gallons of Gasoline Recovered	Barrels of Water (if none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
SEC. 4 NE SE Newton Sheep Co.	2N	7E	1	CONTINUED						<p>Perforated Nugget formation <u>9,931 - 9,936'</u> (Sonic Log) with 2 - 22 gram shots per foot. Ran DST No. 7 - 9,910 - 9,931', packer set at 9,910'. Tool open 45 mins. Gas to surface in 5 mins., oil to surface in 40 mins. Flowed well to pit 5-1/2 hrs. No valid flow rate established. Closed tool, released packer. Dropped two bars to open circulating valve - unsuccessful. Perforated drill pipe at <u>9,520'</u> and reversed out oil. Pulled test tools. Pressures: IH 4813; IF 1063/2893; ISI 4158; FF 1524; FSI 4155; FHP 4810; BHT 210° F.</p> <p>Ran DST No. 8 - 9,910' - 10,000' - Nugget. Tool open 30 mins., gas to surface in 7 mins., fluid in 22 mins., shut in 2 hrs. Tool open on 1/4" choke for 1 hour at 20 BOPH, no gas gauge; shut in 1 hour for separator repairs. Tool open on 1/4" choke for 3 hours at 19.53 BOPH, 350 MCFD, no water, FTP 1100 psi; shut in 3 hours. Tool open on 3/8" choke for 12 hours at average of 18 BOPH, 325 MCFD, no water, FTP 1200 psi. Closed test tool, opened circulating valve, reversed oil from drill pipe. Pulled and laid down test tools. Pressures: IH 4898; IF (30 min) 826/2670; ISI (120 mins.) 4193; 2nd FP (60 min.) 2316/4142; 2nd SI (60 min.) 4225; 3rd FP (186 min.) 3331/4134; 3rd SIP (175 min.) 4218; 4th FP (744 min.) 2706/4167; 4th SI (787 min.) 4223; 5th FP (615 min.) 2531/4130 - clock ran out during 5th flow period. FHP 4824; BHT 200° F.</p> <p>Preparing to perforate and test. Incomplete.</p>

PAGE 2

GAS: (MCF)  
 Sold None  
 Flared/Vented 1,017  
 Used On/Off Lease 105

OIL or CONDENSATE: (To be reported in Barrels)  
 On hand at beginning of month None  
 Produced during month 1,942  
 Sold during month None  
 Unavoidably lost 20  
 Reason: Unable to pick up out of pit.  
 On hand at end of month 1,921.70

**CONFIDENTIAL**

DRILLING/PRODUCING WELLS: This report must be filed on or before the sixteenth day of the succeeding month following production for each well. Where a well is temporarily shut-in, a negative report must be filed. **THIS REPORT MUST BE FILED IN DUPLICATE.**

STATE OF UTAH

DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL & GAS CONSERVATION

1588 WEST NORTH TEMPLE  
SALT LAKE CITY, UTAH 84116  
328-5771

State Lease No. ....  
Federal Lease No. U-25426 &  
Indian Lease No. ....  
Fee & Pat. .... Fee .....

REPORT OF OPERATIONS AND WELL STATUS REPORT

STATE Utah COUNTY Summit FIELD/LEASE Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for the month of:  
December, 1974

Agent's Address 332 Pacific Western Life Bldg. Company American Quasar Petroleum Company  
Casper, Wyoming 82601 Signed [Signature]  
Title Division Operations Manager  
Phone No. 307-237-9501

Sec. and 1/4 of 1/4	Twp.	Range	Well No.	Days Produced	Barrels of Oil	Gravity	Cu. Ft. of Gas (In thousands)	Gallons of Gasoline Recovered	Barrels of Water (if none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
SEC. 4 NE SE Newton	2N Sheep	7E Co.	1	5	1,942	45.0	1,122	-	(E) 271	Drld 14,432' - 14,500' TD. Ran Schlumberger DIL, BHC-Sonic, CNL-FDC & Dipmeter surveys from 14,430' - 10,989'; Geophone Survey 14,433' - 10,989'.  Attempted DST No. 1 - Johnson straddle test to test Ankareh interval 11,370' - 11,395'. Packers would not hold. Misrun. Ran Lynes straddle tools for DST No. 2 - 11,370' - 11,395' - Packers would not hold - Misrun. Ran Lynes straddle tools for DST No. 3 - 11,370' - 11,397'. Attempted to set packers and packers failed. Misrun. Ran DST No. 4 - 10,587' - 14,500' with packer in 9-5/8" casing at 10,587'. Tool open 30 mins., fair blow for 8 mins., strong blow for 12 mins., fair-weak blow for 10 mins.; shut in 120 mins. Unable to reopen tool. Pulled tools and recovered 2,600' drilling mud with no gas or oil. Pressure charts indicated tool never closed after initial opening. BHP bombs did not record consistently. Top bomb pressure: IH 6628; IF 1611/1791; BHT 230° F. Bottom bomb pressure: IH 6708; IF 3436/5133; BHT 206° F. DST No. 4 considered a misrun. Ran DST No. 5 - 10,607' - 14,500'. Set packer at 10,607' in 9-5/8" casing. Tool open 20 mins. with weak blow for 15 mins., dead remainder; shut in 120 mins. Reopened tool 9 hrs. on second flow period; weak blow for 80 mins., dead in 90 mins., remained dead through remainder of flow period. Final shut in 8 hrs. Recovered 2,100' drilling mud, no shows of oil or gas. Pressures: IH 6628; IF 457/1253; ISI 4836; FF 1665/1253; FSI 5016; FH 6628; BHT 210° F.  Spotted 80 sack cement plug from 11,525' - 11,325' FBTD. Ran GRN Correlation log 10,989' - 9,800'. Set Howco Easy-Drill bridge plug at 10,900' with 4 sax cement above. Pressure tested casing and bridge plug to 2000 psi.  Perforated Nugget formation 10,024' - 10,036' (BHC-Sonic Log) with 4 - 22 gram shots per foot. Ran DST No. 6 - 10,000' - 10,036'. Tool open 30 mins., fair blow, increased to strong blow throughout. Shut in 2 hrs., open 7-1/2 hrs. Gas to surface in 1 hr. and 15 mins. Well dead in 2 hrs. and remained dead throughout period. Shut in 15 hrs. Recovered 540' gas and watercut mud with trace of oil and 8,886' water, gas cut with trace of oil. Pressures: IH 4961; IF 165/2329; ISI 4182; FF 2359/4182; FSI 4182; FH 4931; BHT 230° F.  Squeezed Nugget perms 10,024' - 10,036' (Sonic) with 100 sax 50-50 Pozmix, 0.4% HR <sub>4</sub> , 18% salt. Squeezed to 2000 psi with 49 sax below retainer. Picked up 5' and re-versed 41 sax cement from drill pipe.

12/7/74

Lee Miller - American Quazar  
Coalville - 9 emb. sheep #1. Fee  
T. D. 14,500 - below Nugget  
9 $\frac{5}{8}$ " at 10,989'

Open hole = 11,360 - testing (70' thick)  
11360 - 11480 Antera Formation - rest of hole  
Logged to 14,433 no sig.  $\phi$  and some  
stgy sands below - no  $\phi$   
no abnormal pressures or  
water flows.

(1) 200' cement plug on 8 $\frac{1}{2}$ " hole  $\approx$   
100 sh = 11,525 - 11,325

(2) ~~100' cement plug~~ place B. P. 1  
hole of 9 $\frac{5}{8}$ " / Cement on top = 25 sh

(3) Well re-test before P.B.  
or deepen into ~~the~~ Nugget re-test  
gave V. A.

(4) Or Re test upper Nugget  $\approx$  10,300

JMB

Red Walls

12/11/74

May Pet. Inc.

Hunter's Canyon - #1 sec 16 T27S R22E

T.D. - 7100 - DST tool steel @ 6960

well log toner! stop of fish - 6583 - two weeks

S.T. salt - 6100 - no sig. picked ↓

Mosby - 1150

Corralito Breakout

Cutler - ~~1550~~ 1590

Hermosa - 2875

base of salt.

T.D. - top of Meis. - Dalamit @ 6950 - not in Meis. &

(1) 200' plug top of fish  
6350 - 6550

(2) 200' plug top of salt.

(3) 100' plug top of Hermosa

$8\frac{5}{8}'' = 1325'$  of surface pipe - cemented

(4) 100' - base of pipe - 75% inside

(5) 10-20' marker - salt gel plug - 10.8#  
between plugs.

K

1

American Gasar  
Newton Sheep Co. #1  
H. 21-4E  
Summit Co.

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING  
1598 West North Temple  
Salt Lake City, Utah 84116

February 13, 1975

American Quasar Petroleum Co.  
332 Pacific Western Life Bldg.  
Casper, Wyoming 82601

Re: Newton Sheep Co. #1  
Sec. 4, T. 2N, R. 7E  
Summit County, Utah

Gentlemen:

On February 11, 1975, a visit was made to the above referred to well.

At the time of the inspection, it was observed that 100 barrels of water per day was being produced into an unlined pit. Although, gas is being flared over said pit, it is very unlikely that this much water can be disposed of by evaporation.

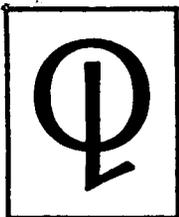
Therefore, it is requested that immediate steps be taken toward an alternate method of disposal. One solution may be the drilling of a water disposal well, which would necessitate Board approval.

Very truly yours,

DIVISION OF OIL & GAS CONSERVATION

CLEON B. FREIGHT  
DIRECTOR

cc: American Quasar Petroleum Co.  
Denver, Colorado



# AMERICAN QUASAR PETROLEUM CO.

332 PACIFIC WESTERN LIFE BUILDING / CASPER / WYOMING 82601 U.S.A. / TELEPHONE (307) 237-9501

TORONTO STOCK EXCHANGE SYMBOL AQPT

NASDAQ SYMBOL AQAS

March 5, 1975

Mr. Cleon B. Feight  
Utah Division of Oil & Gas Conservation  
1588 West North Temple  
Salt Lake City, Utah 84116

Re: Newton Sheep Co. No. 1  
NE SE Sec. 4-2N-7E  
Summit County, Utah

Dear Mr. Feight:

This is in reply to your letter of February 13, 1975, the original of which never reached my office, but a copy was sent to me from our Denver office.

You are, of course, correct in that our current method of disposal of produced water from the captioned well is unsatisfactory. We had initially planned to use this produced water in the drilling of our offset well, UPRR #3-1 in Section 3-2N-7E, which is now drilling at 3621'. Analysis revealed that the calcium content of the produced water would be quite detrimental to a good drilling mud and would be very expensive to treat out. I am attaching a current water analysis for your records.

Our Newton Sheep Co. No. 1 well is perforated some 130' below the top of the Nugget porosity and we don't know at this time if the sand above our current perforations is oil or gas productive. We are hesitant at this time to plug back out of the best porosity into what might be gas production or more water-cut oil production.

Because of all this, we would appreciate your permission to continue our current method of disposal for another forty (40) days--by which time our UPRR #3-1 well should be into the Nugget formation. We plan to core and test the upper part of the Nugget in

Mr. Cleon B. Feight  
Utah Division of Oil & Gas Conservation  
Page Two  
March 5, 1975

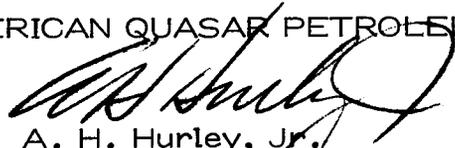
this well and will then know if we can safely plug back the Newton Sheep Co. No. 1 and eliminate the produced water problem. If the upper portion of the Nugget will not produce waterfree, we will, of course, then file an application for hearing on a salt water disposal well.

Please advise if this approach is satisfactory, or if we need to eliminate our disposal problem immediately.

Very truly yours,

AMERICAN QUASAR PETROLEUM CO.

By:

  
A. H. Hurley, Jr.  
Division Operations Mgr.

AHH:bh  
Enc.

March 10, 1975

American Quasar Petroleum Company  
332 Pacific Western Life Building  
Casper, Wyoming 82601

ATTENTION: A.H. Hurley, Jr., Division Operations Mgr.

Re: Newton Sheep Co. #1  
Sec. 4, T. 2 N, R. 7 E, NE SE  
Summit County, Utah

Dear Mr. Hurley:

We are in receipt of your letter dated March 5, 1975, pertaining to disposal of brackish water from the above referred to well.

You are hereby advised that this Division will grant approval to continue your current method of disposal for a period of 40 days, however, due to the high sodium chloride content of said water it is strongly recommended that your present disposal pit be lined as soon as possible. If said pit cannot be lined, it is then recommended that a new pit be dug and lined for the purpose of containing such fluids.

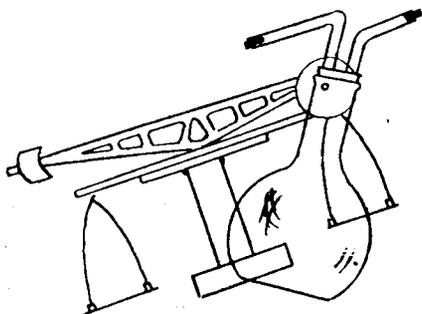
Should you have any questions relative to the above, please do not hesitate to call or write.

Very truly yours,

DIVISION OF OIL & GAS CONSERVATION

CLEON B. FEIGHT  
DIRECTOR

CBF:sw



# Ford Chemical

## LABORATORY, INC.

*Bacteriological and Chemical Analysis*

40 WEST LOUISE AVENUE  
SALT LAKE CITY, UTAH 84115  
PHONE 485-5761

April 2, 1975

### CERTIFICATE OF ANALYSIS

75-1185

Utah Geological & Mineral Survey  
103 UGS Building  
University of Utah  
Salt Lake City, UT 84112

Gentlemen:

The following analysis is on sample of oilfield brine received on March 21, 1975:

Sample: American Quasor, Energetics, Inc., North Central Oil, Newton Sheep Co., Coalville, UT, Perf. 9931-36

	Results
Specific Gravity at 60°/60° F.	1.040
pH	7.50
Resistivity at 80° F.	0.740 ohms
Sodium as Na	10,764 mg/l
Calcium as Ca	600.0 mg/l
Strontium as Sr	2.6 mg/l
Barium as Ba	0.87 mg/l
Potassium as K	528.0 mg/l
Lithium as Li	5.5 mg/l
Rubidium as Rb	0.0 mg/l
Cesium as Cs	0.0 mg/l
Iron as Fe	0.87 mg/l
Manganese as Mn	0.36 mg/l
Magnesium as Mg	24.0 mg/l

Utah Geological & Mineral Survey  
Page 2 75-1185  
April 2, 1975

Boron as B	11.70 mg/l
Copper as Cu	0.10 mg/l
Zinc as Zn	0.36 mg/l
Nickel as Ni	6.82 mg/l
Ammonia as NH <sub>3</sub> -N	35.0 mg/l
Chloride as Cl	15,200 mg/l
Bromide as Br	16.5 mg/l
Iodide as I	4.6 mg/l
Fluoride as F	1.46 mg/l
Sulfate as SO <sub>4</sub>	3,625 mg/l
Bicarbonate as HCO <sub>3</sub>	581.7 mg/l
Carbonate as CO <sub>3</sub>	0.0 mg/l
Hydroxide as OH	0.0 mg/l

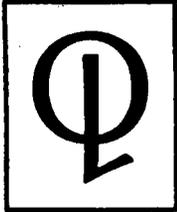
Sincerely,

FORD CHEMICAL LABORATORY, INC.



Lyle S. Ford

LSF:vh



# AMERICAN QUASAR PETROLEUM CO.

332 PACIFIC WESTERN LIFE BUILDING / CASPER / WYOMING 82601 U.S.A. / TELEPHONE (307) 237-9501

TORONTO STOCK EXCHANGE SYMBOL AQPT

NASDAQ SYMBOL AQAS

April 4, 1975

Utah Division of Oil & Gas Conservation  
1588 West North Temple  
Salt Lake City, Utah 84116

Attention: Cleon B. Feight, Director

Re: Produced Water Retainer Pit  
Newton Sheep Co. No. 1  
Summit County, Utah

Gentlemen:

American Quasar has made necessary arrangements to install a plastic liner in the subject retainer pit for the purpose of retaining produced water.

The liner has been prefabricated and is currently available for installation in the pit as soon as weather conditions permit.

Very truly yours,

AMERICAN QUASAR PETROLEUM CO.

By: 

Don Brause

Division Engineer

DB:bh

AMERICAN QUASAR PETROLEUM CO. OF NEW MEXICO

Newton Sheep Co. No. 1

ATTACHMENT NO. 1

DRILL STEM TESTS

- DST NO. 1 - 11,370' - 11,395' - Ankareh. Packers would not hold. Misrun.
- DST NO. 2 - 11,370' - 11,400' - Ankareh. Packers would not hold. Misrun.
- DST NO. 3 - 11,370' - 11,397' - Ankareh. Packers would not hold. Misrun.
- DST NO. 4 - 10,587' - 14,500'. Set packer in 9-5/8" casing at 10,587'. Tool open 30 mins., fair blow for 8 mins., strong blow for 12 mins., fair-weak blow for 10 mins., shut in 120 mins. Unable to reopen tool. Pulled tools and recovered 2,600' drilling mud with no gas or oil. Pressure charts indicated tool never closed after initial opening. BHP bombs did not record consistently. Top bomb pressure: IH 6628; IF 1611/1791; BHT 230° F. Bottom bomb pressure: IH 6708; IF 3436/5133; BHT 206° F. DST No. 4 considered a misrun.
- DST NO. 5 - 10,607' - 14,500'. Set packer at 10,607' in 9-5/8" casing. Tool open 20 mins. with weak blow for 15 mins., dead remainder, shut in 120 mins. Reopened tool 9 hrs. on second flow period, weak blow for 80 mins., dead in 90 mins., remained dead throughout remainder of flow period. Final shut in 8 hrs. Recovered 2,100' of drilling mud, no shows of oil or gas. Pressures: IH 6628; IF 457/1253; ISI 4836; FF 1665/1253; FSI 5016; FH 6628; BHT 210° F.
- DST NO. 6 - 10,000' - 10,036'. Set packer at 10,000'. Tool open 30 mins., fair blow, increased to strong blow throughout. Shut in 2 hrs., open 7-1/2 hrs. Gas to surface in 1 hr. and 15 mins. Well dead in 2 hrs. and remained dead throughout period. Shut in 15 hours. Recovered 540' gas and watercut mud with trace of oil and 8,886' of water, gas cut with trace of oil. Pressures: IH 4961; IF 165/2329; ISI 4182; FF 2359/4182; FSI 4182; FH 4931; BHT 230° F.
- DST NO. 7 - 9,910' - 9,931'. Set packer at 9,910'. Tool open 45 minutes. Gas to surface in 5 mins., oil to surface in 40 mins. Flowed well to pit 5-1/2 hrs. No valid flow rate established. Closed tool, released packer. Dropped 2 bars to open circulating valve without success. Perforated drill pipe at 9,520' and reversed out oil. Pulled test tools. Pressures: IH 4813; IF 1063/2893; ISI 4158; FF 1524; FSI 4155; FHP 4810; BHT 210° F.

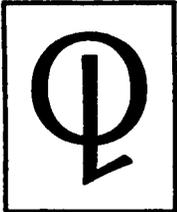
(1)

**CONFIDENTIAL**

Newton Sheep Co. No. 1

DST NO. 8 - 9,910' - 10,000'. Tested Nugget perforations 9,931' - 9,936'. Set packer at 9,910'. Tool open 30 mins. Gas to surface in 7 mins., fluid in 22 mins. Shut in 2 hrs. Tool open on 1/4" choke one hour at 20 BOPH, no gas gauge. Shut in one hour for separator repairs. Tool open on 1/4" choke three hours at 19.53 BOPH, 350 MCFD, no water, FTP 1100 psi. Shut in three hours. Tool open on 3/8" choke 12 hrs., at average 18 BOPH, 325 MCFD, no water, FTP 1200 psi. Reversed oil out. Pressures: IH 4898; IF 826/2670; ISI 120 mins. 4193; 2nd FP (60 mins.) 2316/4142; 2nd SI (60 mins.) 4225; 3rd FP (186 mins.) 3331/4134; 3rd SI (175 mins.) 4218; 4th FP (744 mins.) 2706/4167; 4th SI (787 mins.) 4223; 5th FP (615 mins.) 2531/4130. Clock ran out during 5th flow period. FHP 4824; BHT 200° F.

**CONFIDENTIAL**



# AMERICAN QUASAR PETROLEUM CO.

332 PACIFIC WESTERN LIFE BUILDING / CASPER / WYOMING 82601 U.S.A. / TELEPHONE (307) 237-9501

TORONTO STOCK EXCHANGE SYMBOL AQPT

NASDAQ SYMBOL AQAS

April 15, 1975

Utah Division of Oil & Gas Conservation  
1588 West North Temple  
Salt Lake City, Utah 84116

Attention: Cleon B. Feight, Director

Re: Newton Sheep Co. No. 1  
NE SE Sec. 4-2N-7E  
Summit County, Utah

Gentlemen:

Further to Mr. Brause's letter of April 4, 1975, please be advised that plastic pit liner was installed in water discharge pit for the captioned well on April 11, 1975. It is anticipated that this installation will solve our disposal problem from this well temporarily.

A salt water disposal well application is being prepared and will be submitted in the near future.

Very truly yours,

AMERICAN QUASAR PETROLEUM CO.

By:

  
A. H. Hurley, Jr.  
Division Operations Mgr.

AHH:bh

5

Wuer File

June 17, 1975

American Quasar Petroleum Company  
332 Pacific Western Life Bldg.  
Casper, Wyoming 82601

Gentlemen:

Several royalty owners have contacted this Division relative to questioning when they may expect to receive Division orders or royalty payments from the Newton Sheep #1 well which commenced production on December 21, 1974.

We feel it would be good public relations if the local royalty owners were contacted as to when they may expect some remuneration.

Very truly yours,  
DIVISION OF OIL, GAS, AND MINING

CLEON B. FEIGHT  
DIRECTOR

CBF:sw

CALVIN L. RAMPTON  
*Governor*



*Mr. Strong -  
Check w/ Koch & find out  
about this land.*  
OIL, GAS, AND MINING BOARD.

GORDON E. HARRISTON  
*Executive Director,*  
NATURAL RESOURCES

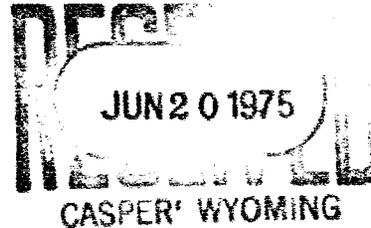
STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING  
1588 West North Temple  
Salt Lake City, Utah 84116

GUY N. CARDON  
*Chairman*

CHARLES R. HENDERSON  
ROBERT R. NORMAN  
JAMES P. COWLEY  
HYRUM L. LEE

CLEON B. FEIGHT  
*Director*

June 17, 1975



American Quasar Petroleum Company  
332 Pacific Western Life Bldg.  
Casper, Wyoming 82601

Gentlemen:

Several royalty owners have contacted this Division relative to questioning when they may expect to receive Division orders or royalty payments from the Newton Sheep #1 well which commenced production on December 21, 1974.

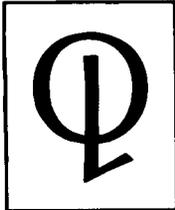
We feel it would be good public relations if the local royalty owners were contacted as to when they may expect some remuneration.

Very truly yours,

DIVISION OF OIL, GAS, AND MINING

CLEON B. FEIGHT  
DIRECTOR

CBF:sw



# AMERICAN QUASAR PETROLEUM CO.

2200 CONTINENTAL NATIONAL BANK BUILDING / FORT WORTH / TEXAS 76102, U.S.A.

TORONTO STOCK EXCHANGE SYMBOL AQPT

Telephone (817) 335-4701

NASDAQ SYMBOL AQAS

June 30, 1975

State of Utah  
Department of Natural Resources  
Division of Oil, Gas and Mining  
1588 West North Temple  
Salt Lake City, Utah 84116

Attention: Mr. Cleon B. Feight

Re: Division Orders - Newton Sheep Ranch #1  
SE/4 Section 4-T2N-R7E, Summit Co., Utah

Gentlemen:

Thank you for your letter of 6-17-75 (copy attached) relative to the caption.

Koch Oil Company, P. O. Box 2256, Wichita, Kansas 67201, is responsible for distribution of revenue to the various working interests, overriding royalty interests and royalty interests. We believe Koch has, however, circulated Division Orders, which were dated May 15, 1975, to all interest owners for execution.

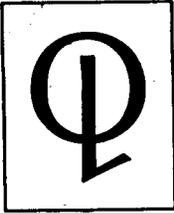
Please direct further correspondence regarding payment for crude runs to Koch at the above address.

Very truly yours,

  
\_\_\_\_\_  
David Beck  
Manager Administrative Operations

DB:ds

cc:/w attachments to Koch Oil Company  
& List attached



Copies to:/w attachments

Newton Sheep Company  
3744 South 6400 West  
Salt Lake City, Utah

Flying Diamond Corporation  
Mile High Center  
1700 Broadway  
Denver Colorado 80202

Bass Enterprises Production Co.  
1211 Fort Worth National Bank Building  
Fort Worth, Texas

Jerry D. Armstrong /  
Suite 1420  
1660 Lincoln Street  
Denver, Colorado 80203

Jack B. Ryan /  
10 Clydesdale Road - Surrey Ridge  
Castlerock, Colorado 80104

James B. Wallace  
1660 Lincoln Street - Suite 1420  
Denver, Colorado 80203

Ray O. Brownlie  
1660 Lincoln Street - Suite 1420  
Denver, Colorado 80203

Conoco Production Co.  
Security Life Building  
Denver, Colorado 80202

Occidental Petroleum Corporation  
902 Patterson Building  
Denver, Colorado 80202

Sun Oil Company (Delaware)  
12850 Hillcrest Road  
Dallas, Texas 75230

Russell A. Pomeray  
Patterson Building  
Denver, Colorado 80202

Max W. Prescott  
333 West Hamden Avenue - Suite 1010  
Englewood, Colorado 80110

L. Clark Kiser  
333 West Hampden Avenue Suite 1010  
Englewood, Colorado 80110

Lyle J. Moore  
333 West Hampden Ave. - Suite 1010  
Englewood, Colorado 80110

United States of America  
c/o United States Geological Survey  
P. O. Box 2859  
Casper, Wyoming 82601

John R. Anderson  
705 Deseret Building  
Salt Lake City, Utah 84111

Beverly Lasiech  
4137 Holloway Drive  
Salt Lake City, Utah 84117

LW. CLARK  
1507 E 4225S  
S2C 84117

278 1780  
in NW 1/4

CECIL CLARK  
District 1 - RFD  
Cannonville, Utah



# AMERICAN QUASAR PETROLEUM CO.

2200 CONTINENTAL NATIONAL BANK BUILDING / FORT WORTH / TEXAS 76102, U.S.A.

TORONTO STOCK EXCHANGE SYMBOL AQPT

Telephone (817) 335-4701

NASDAQ SYMBOL AQAS

WALTER A. SCHMID, JR.  
CHAIRMAN, EXECUTIVE COMMITTEE  
OF THE BOARD OF DIRECTORS

August 18, 1975

Senator Frank E. Moss  
125 South State  
Salt Lake City, Utah 84138

Dear Senator Moss:

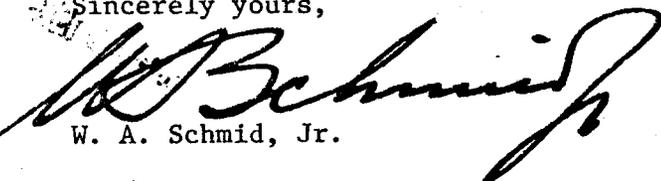
It has been brought to our attention that you possibly might like to visit a recent discovery in Northeastern Utah known as the #1 Newton Sheep Company located in Summit County.

This discovery could possibly have important implications for not only the State of Utah, but for the entire country. In case you have not had a chance to see the article, I am enclosing a study from the Oil and Gas Journal.

As we are in the process of completing the second confirmation well which also contains a possible new producing horizon and will be dually completed, we would suggest a date of about September 15. At this time we should have two additional wells drilling in the area and a more substantial delineation of the significance of the discovery. If you are able to spend a few hours familiarizing yourself with the significance, it would be a pleasure to send our Rocky Mountain geologist to confer with the members of your Utah Commission in explaining a possible new oil province, which as far as the United States is concerned, is totally unexplored.

We appreciate very much the cooperation of the various suppliers and the Oil and Gas Conservation Commission along with many citizens of your great State who have seen this very tedious project through to fruition.

Sincerely yours,

  
W. A. Schmid, Jr.

WAS:mf

Enclosure

cc: Mr. Cleon B. "Jack" Fight, Director  
Oil and Gas Conservation Commission  
1588 N. West Temple  
Salt Lake City, Utah 84138

# Rockies' newest province could be one of best

UTAH, a state of many full-time oil provinces, and a state with many promising but undrilled areas, may have one of its best new hydrocarbon theaters.

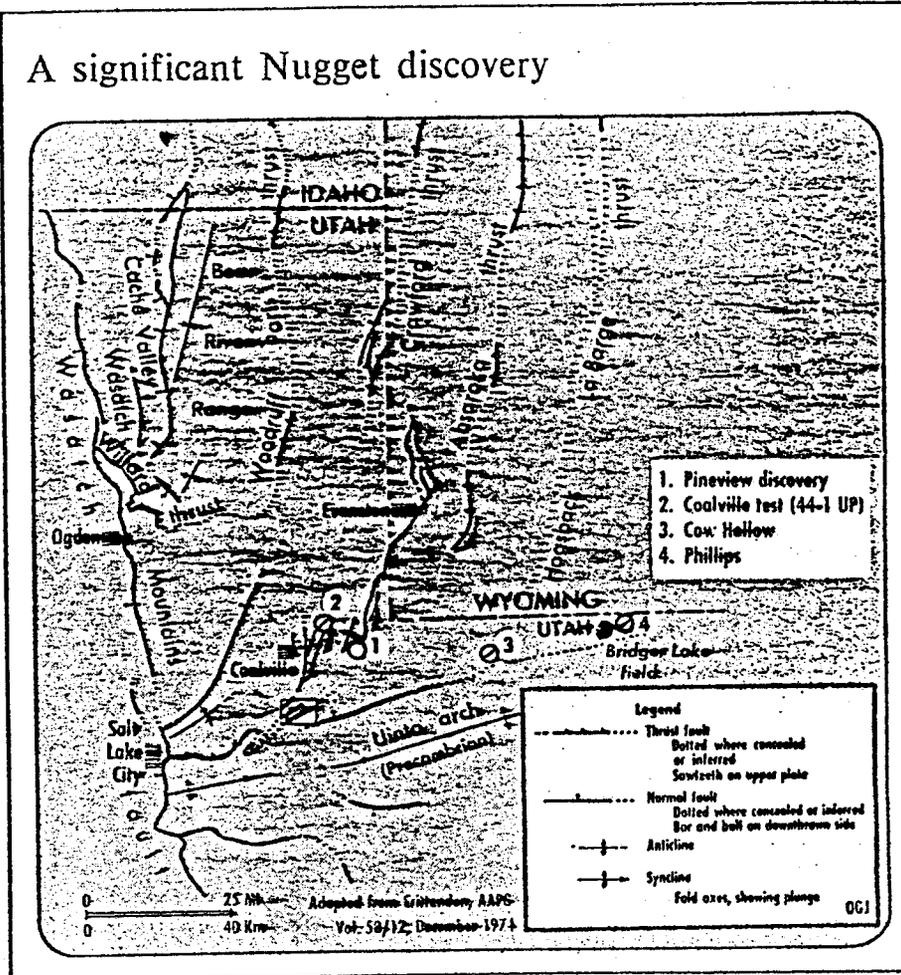
A Nugget Jurassic sandstone discovery, 12 miles east of Coalville near Pineview, Summit County, has fired up an extensive exploratory program along the northern flank of the Uinta Mountain uplift in the southwestern environs of the Green River basin. It has been nearly 10 years since this corner of the Rockies stirred the industry's explorationists. In 1966, Bridger Lake oil field was opened and immediately tagged as one of the most-significant discoveries in the Rocky Mountains in many years.

A 1975 discovery. The wildcat that has all this interest going for Utah is American Quasar Petroleum Co. et al. 1 Newton Sheep Co. in NE SE 4-2n-7e.

This well was completed last Jan. 12 flowing 226 bbl of water, 540 bbl of oil, and 270,000 cu ft of gas daily. An 8-ft interval in the Nugget with its perforations at 9,928-36 ft is the pay zone. American Quasar, according to Carlton H. Stowe of the Utah Geological & Mineral Survey (UGMS), spent more than \$2.5 million on the discovery well.

The Pineview discovery was drilled on the Chalk Creek anticline, one of several complex folds located near the junction of three major structural features: the Wasatch Mountains, the Uinta Mountains, and the Idaho-Wyoming Thrust Belt. Stowe, in the May 1975 Quarterly Review of UGMS, notes that the Chalk Creek anticline is an asymmetric, complexly faulted fold that trends northeast to southwest. The folding and faulting are related to the Idaho-Wyoming Thrust Belt which is exposed along the flanks of the Uinta arch and the Wasatch Mountains where thousands of feet of Paleozoic and Mesozoic sediments represent a transition from miogeosynclinal sedimentation to shelf-type deposits. This section ranges in age from Cambrian to late Cretaceous and early Tertiary.

On an anomaly. Utah's most-signifi-



cant oil discovery in some time was drilled on a geophysical anomaly indicating structural closure.

Below the nugget, the well cut a fault in Triassic red beds and bottomed in Cretaceous, Stowe said.

Approval for 160-acre drilling space was given for 1 year, or until five wells are completed and producing. American Quasar expects to recover 1,522,000 bbl of oil for each 160-acre well.

The estimated ultimate gas recovery is 1,217,600 Mcf with an estimated liquid recovery from the gas at 3,652,800 gal, Stowe noted.

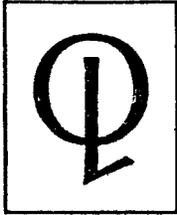
Leases in the nine-spaced sections are held by Amoco Production with 50%, Sun Oil Co. with 25%, and Occidental Petroleum 25%.

The confirmation attempt is being drilled jointly by American Quasar, Energetics Inc., and North Central Oil Co. at 3-1 Union Pacific in NW NW

3-2n-7e. Target is 10,000 ft and the Nugget.

There are three wildcats drilling in the Summit area, Colorado Energetics, Fuelco 44-1 UPRR in SW SE 1-2n-5e on the Coalville anticline, American Quasar 1 Cow Hollow in NW NW 17-2n-11e, 24 miles east of the discovery well, and a Phillips deep hole at 1.Cook in NW SE 17-3n-15e, north-east of Bridger Lake oil field.

The Nugget strike at Pineview has warmed the leasing play in northern Utah into Morgan, Weber, Cache, and Rich counties to the Idaho line. More than 60,000 acres of state and federal lands were filed on by Denver independents last December. More than 1 1/4 million acres of federal land was covered by lease filings last January. Steady leasing has been going on west of Pineview, throughout the Coalville area, and extending both to the north and south, Stowe reports.



# AMERICAN QUASAR PETROLEUM CO.

2200 CONTINENTAL NATIONAL BANK BUILDING / FORT WORTH / TEXAS 76102, U.S.A.

TORONTO STOCK EXCHANGE SYMBOL AQPT

Telephone (817) 335-4701

NASDAQ SYMBOL AQAS

WALTER A. SCHMID, JR.  
CHAIRMAN, EXECUTIVE COMMITTEE  
OF THE BOARD OF DIRECTORS

August 25, 1975

Senator Frank E. Moss  
125 South State  
Salt Lake City, Utah 84138

Dear Senator Moss:

Saturday, September 13th, will work out fine for a visit to the Newton Sheep discovery in Summit County Utah. As you know it is only about an hours drive to the location. We will look forward to seeing you if this date is convenient. I have made arrangements with our Rocky Mountain Geologist, Mr. Clare Gregg, to join us for this trip.

Sincerely yours,

W. A. Schmid, Jr.

WAS:bf

cc: Mr. Cleon B. "Jack" Fight, Director  
Oil and Gas Conservation Commission  
1588 N. West Temple  
Salt Lake City, Utah 84138



# Petroleum Information.

*A Subsidiary of A.C. Nielsen Company*

P.O. BOX 2812, DENVER, COLORADO 80201, 303/825-2161

## ROCKY MOUNTAIN REGION NEWSLETTER EDITION

P.D.  
Vol 48 No 190  
9-29-75

### PINEVIEW AREA UTAH OFFSET PRODUCES FROM TWIN CREEK AND NUGGET

Reports indicate that oil and gas flowed from intervals in both Twin Creek and Nugget zones of Jurassic and that American Quasar Petroleum, Energetics Inc and North Central Oil have dually completed the northeast offset to the Pineview area Nugget discovery in northern Utah's Summit County. Combined rate of flow was gauged at more than 1000 bbls of oil and nearly a million cu ft of gas per day, according to the reports which have not been confirmed by the operators.

The extension of the Nugget pool and the Twin Creek pay discovery in the Pineview area, 3-1 Union Pacific, nw nw 3-2n-7e, was drilled to a total depth of 10,312 ft. Twin Creek was topped at 8658 ft, Gypsum Spring 9935 and Nugget at 9984 ft.

From a 15 ft interval in Twin Creek, perforated 9851-66 ft, the well is said to have flowed at 480 bbls of oil and nearly 600,000 cu ft of gas a day, and from Nugget, perforated 10,000-10-030 ft, the well was reportedly gauged at about 575 bbls of oil and 420,000 cu ft of gas per day.

The discovery, 1 Newton Sheep, ne se 4-2n-7e, a half mile to the southwest, was completed in January of this year flowing 553 bbls of 45-46 gravity oil, 160 bbls of water and 250,000 cu ft of gas per day on a 16/64 inch choke from Nugget 9928-36 ft. In June, the discovery produced 14,350 bbls of oil...about 484 bbls a day... 10.8 million cu ft of gas and 14,382 bbls of water. Cumulative production at the end of June was 81,229 bbls of oil, 58,409 bbls of water and 46.3 million cu ft of gas. Most of the unofficial reports on the extension indicate that water has not been a problem in the new Pineview area producer and the possibility of remedial work to shut off or reduce the volume of water at the discovery is under consideration.

WORKOVER OF NEW MEXICO WELL GETS NEW GAS PAY

Two olds wells in northern New Mexico have been recompleted to produce gas. In San Juan County, West Gas, Calgary, Alberta, has completed a new pay discovery in North Shiprock field. It is 1 Navajo-B, nw ne 14-30n-18w, and has completed flowing 5,300,000 cu ft of gas per day from Ismay (Pennsylvanian) perforated between 6489-6502 ft. This well has been productive in Gallup and Dakota formations. Nearest Pennsylvanian production is seven miles southwest in Rattlesnake field.

LEASES ISSUED FOLLOWING AUGUST DRAWING ON FEDERAL LANDS IN NEVADA

Federal leases in Nevada have been issued on 22 parcels posted as open for simultaneous filings from September 15-22. The Bureau of Land Management listed 44 parcels (PI 9-15-75). Parcel numbers below are those appearing on the September 15 list. Parcels not listed received no applications. The following list shows parcel number, first applicant drawn and Nevada serial number. Parcel #754, Charles A. Caudill, 34241 Aztec Drive, Westland, Michigan 48185 (N-12063); #756, J B & B Industries, Box 4031, Walnut Creek, California 94596 (N-12064); #757, Linda C. Fall, 3369 S. Flamingo Way, Denver 80222 (N-12065); #758, Rodney Hatch, 327 Crestview Drive, Price, Utah 84501 (N-12066); #759, A. Helander, 2621 Beth Drive, Billings 59102 (N-12067); #760, Richard A. Champion, 1645 Court Place, Denver 80202 (N-12068); #761, Roy B. Edmundson, Box 222, 33 Welshire Station, Denver 80222 (N-12069); #762, Anthony Ament, 32984 Killewald, New Baltimore, Michigan 48047 (N-12070); #763, Angelina B. Duncan, 9749 Cunningham Road, Jacksonville, Florida 32216 (N-12071); #764, William W. Fiske II, 2038 Old Gulph Road, Villanova, Pennsylvania 19085 (N-12072); #765, Joseph A. Babinec, 1611 Parkview, Whiting, Indiana 46394 (N-12073); #766, Greg Panos, Box 8249, Salt Lake City 84108 (N-12074); #767, Alver C. Duncan, 9749 Cunningham Road, Jacksonville, Florida 32216 (N-12075); #768, Pat Panos, 1477 Wilton Way, Salt Lake City 84108 (N-12076); #769, Alver C. Duncan (N-12077); #770, Gulf Oil, Box 1392, Bakersfield, California 93302 (N-12078); #792 and 793, Babinec (N-12079 and N-12080); #794, Austin M. Briggs, 551 N. Post Oak Lane, Houston 77024 (N-12081); #795, Ned Wheatley, 714 Midland Savings Bldg, Denver 80202 (N-12088); #796, Nola Grace Ptasynski, Box 43, Casper 82601 (N-12083); #797, Wheatley (N-12084).

WASHINGTON COUNTY COLORADO WILDCAT SCHEDULED

Coquina Oil has staked 1 Jesse, sw nw 10-2s-52w, Washington County, Colorado, to go to 4550 ft. The wildcat is five miles north of production from J sand in

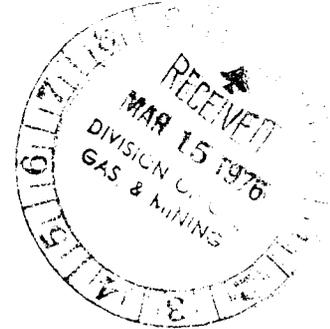


# AMERICAN QUASAR PETROLEUM CO. OF NEW MEXICO

1630 DENVER CLUB BUILDING, 518 SEVENTEENTH STREET, DENVER, COLORADO 80202, U.S.A.

Telephone (303) 623-5775

March 11, 1976



Department of Natural Resources  
Division of Oil, Gas and Mining  
1588 West North Temple  
Salt Lake City, Utah 84116

Attention: Cleon B. Feight, Director

Re: Ela Boyer Lease  
S/2 Section 34, T3N-R7E  
Summit County, Utah  
Pineview Prospect - #1101

Gentlemen:

Reference is made to your inquiry dated February 9, 1976 regarding development plans for the Ela Boyer lease, described above. In connection with such letter and in order to bring you up to date with developments in the Pineview Field, be advised of our current progress as follows:

<u>Well</u>	<u>Operator</u>	<u>Location</u>	<u>Status</u>
Newton Sheep	American Quasar	SE/4 Sec. 4	Producing 300 B.O.P.D.
UPRR 3-1	American Quasar	NW/4 Sec. 3	Producing 720 B.O.P.D.
UPRR 3-2	American Quasar	SW/4 Sec. 3	Drilling below 14,075' enroute to a 2nd Nugget objective.
UPRR 3-3	American Quasar	SE/4 Sec. 3	Drilling below 2,655'.
No. 1 McDonald	Champlin	NE/4 Sec. 3	Drilling below 7,469'.

As you are aware, the drilling of each additional development well yields information critical to the determination of the productive capabilities and lineal extent of our Nugget reservoir. As such, the data obtained from the drilling of any such well forms the basis for determining the location of the next well to be drilled.

As indicated above, the UPRR 3-3 (American Quasar - Operator) and the No. 1 McDonald (Champlin - Operator) are currently enroute to a Nugget objective

Department of Natural Resources  
March 11, 1976  
Page 2

projected to be encountered at approximate depth of 9,800'. The results of these wells when completed, will not only help to delineate the eastern limits of the productive closure, but will also help to delineate the northern extent of the feature. As such, the outcome of these wells will greatly influence our decision as to whether or not a development well can be justified at a location in the S/2 of Section 34 (Ela Boyer lease).

At present and in view of the extravagant cost of these development wells (in excess of \$1,000,000.00) and the complexity of the structure into which we have tapped, the consensus of opinion as between American Quasar and its partners (Amoco Production Company, Occidental Petroleum Corp., Industrial Energy Corp., Sun Oil Company and North Central Oil Corporation) is that our exploitation program should proceed on a well by well basis. Such a program will (i) assure the orderly development of the Pineview Field; (ii) maximize the ultimate recovery of hydrocarbon substances and minimize the costs of recovering the same; and (iii) serve to best protect the correlative rights of all parties concerned (royalty and working interest owners alike).

We would like very much at this time to be able to drill the Ela Boyer lease but feel that more data must be obtained in order to substantiate the drilling of same. We are endeavoring to acquire such data and will certainly keep both you and Mrs. Boyer personally advised as to our development plans affecting the S/2 of Section 34. Thank you.

Sincerely,

AMERICAN QUASAR PETROLEUM CO.  
OF NEW MEXICO



Thomas S. Gaylord  
Division Landman

TSG/pb

cc: Mrs. Ela Boyer  
Mr. Bernie Pracko, Amoco Production Company  
Mr. Jack Duvall, Occidental Petroleum Corp.  
Mr. W. Paul Stephenson, Industrial Energy Corp.  
Mr. Charles Measley, Sun Oil Company  
Mr. Charles Pirtle, North Central Oil Corporation  
Mr. Jim Werner, American Quasar Petroleum Co.

**Schlumberger**

SCHLUMBERGER WELL SERVICES  
5000 GULF FREEWAY, P.O. BOX 2175  
HOUSTON, TEXAS 77001, (713) 928-2511

PLEASE REPLY TO  
1450 METROBANK BUILDING  
475 SEVENTEENTH STREET  
DENVER, COLORADO 80202

A.C. 303 825-5207

December 23, 1976

Champlin Petroleum Company  
901 East Belleview Avenue  
Englewood, Colorado 80110

Attention: Mr. Fautin

Gentlemen:

Re: Dipmeter Interpretation on #1 Newton Sheep, Summit County, Utah

Enclosed is the structural computation (4' x 2' x 30°) and the directional survey of the interval from 2561' to 11318'.

The structural dip appears to be 22°ESE at 2561' decreasing to 10°ESE and to a probable fault or unconformity at 3000'. The dip then shifts to the S and remains fairly constant at 8° from 3000' to 7880'. The dip then increases with depth from 8°S at 7880' to 24°S at 8970'. The dips become very scattered in the interval from 8970' to 9270'. The dip shifts to 10°-30°WSW in the lower interval and is probably depositional.

The directional survey indicates the hole drifts generally N to 9600' and then to the WNW to TD. The result is a bottom hole location of 764.4'N and 219.0'E.

Thank you for using our services. Please feel free to call on us at any time.

Sincerely,

SCHLUMBERGER WELL SERVICES

*L. M. Grace*  
L. M. "Mike" Grace  
Sales Engineer

LMG/kp

Job 2511

All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to Clause 7 of our General Terms and Conditions as set out in our current Price Schedule.

VOLUMETRIC METER PROVING REPORT  
MECHANICAL DISPLACEMENT METHOD

DATE OF TEST: Mar 7 77 BARRELS:  GALLONS:  GAUGERS DIST. NO: 600 REPORT NO.: 9

FACT - LEASE NAME OR ACT - NAME: American Oquasa Newton Sheep Co. LEASE NO.: 41405 RECEIPT DELIVERY:  WEATHER CONDITIONS: Cl. Calm ATM. TEMP.: 48 °F

METER: Smith SC-13 SIZE: 2" TEMP. COMPENSATED:  YES  NO ATG:  ATC:  GROUP OR GRAVITY: 2 PULSES/BBL.: 8400 METER CASE SERIAL NO.: 38 PRESSURE: 42006 PSI

PROVER: S-22678 SIZE: 16" ROUND TRIP VOLUME @ 60° F. AND 10° PSI: 1.91892 SERIES I: 33 SERIES II: 33 SERIES III: 33

LIQUID: Crude OBSERVED QTY. AND TEMP.: 48.5 GRAVITY - API: 62 °F 48.3 @ 60° F. SPECIFIC GRAVITY: 55/55 @ 60° F. TIME OF RUN: 62 SEC. RATE OF FLOW: 62 B/H

RUN NO.	ELECTRONIC COUNTER				CALCULATIONS			
	LEFT/RIGHT	ROUND TRIP	PROVER °F	METER °F	PROVER VOLUME* X	CTS	CTL	NET PROVER VOLUME
1	8010	16031	76.5	76.5	1.91897	9916		1.90285
2	8006	16033			AVERAGE PULSES PER ROUND TRIP		GROSS METER VOLUME	
3	8007	16027	76.5	76.5	SERIES I		8400	1.90790
4	8005	16022	77	77	GROSS METER VOLUME			METER VOLUME
5	8006	16019	77	77	NET PROVER VOLUME			METER FACTOR
SERIES I AVERAGES								99735
1	8002	16021	77	77	PROVER VOLUME* X		CTL	NET PROVER VOLUME
2	8000	16009			AVERAGE PULSES PER ROUND TRIP			GROSS METER VOLUME
3	8002	16016	77	77	SERIES II		8400	1.90247
4	8002	16020			GROSS METER VOLUME			METER VOLUME
5	8003	16019	77	77	NET PROVER VOLUME			METER FACTOR
SERIES II AVERAGES								99773
1					TOTALIZER		65028	8722
2					REMARKS, REPAIRS, AND ADJUSTMENTS (SHOW DATES)		EFFECTIVE DATE OF NET METER FACTOR: <u>8A Mar 1-77</u>	
3					DATE OF LAST COMPENSATOR CHECK		NET METER FACTOR: <u>9975</u>	
4								
5								
SERIES III AVERAGES								

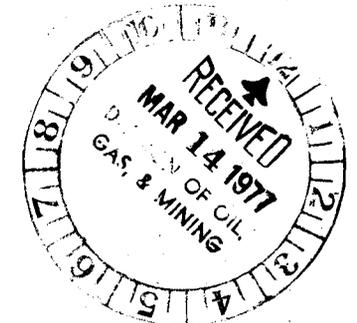
PREVIOUS FACTORS SINCE LAST REPAIR	DATE	FACTOR	TEMP.	8	9	10	11	12	1	2
				9986	9978	9958	9974	9976	9963	9969
				68.5	73	67	66.3	63	64.5	47.5

CALIBRATOR ADJUSTMENT:  No  Yes - SHOW AMOUNT  MINUS  PLUS

TESTED BY: C. R. Ford CALCULATIONS VERIFIED BY: \_\_\_\_\_

WITNESSES: Don Wright DATE: 3-7-77 PERSON OR COMPANY REPRESENTED: Oquasa Pet Co.

[Signature] DATE: 3-7-77 PERSON OR COMPANY REPRESENTED: U.S.G.S.



**STATE OF UTAH**  
 DEPARTMENT OF NATURAL RESOURCES  
 DIVISION OF OIL & GAS CONSERVATION

1588 WEST NORTH TEMPLE  
 SALT LAKE CITY, UTAH 84116  
 328-5771

State Lease No. \_\_\_\_\_  
 Federal Lease No. U-25426 (Ac-  
 Indian Lease No. \_\_\_\_\_quired Land)  
 Fee & Pat. X

**REPORT OF OPERATIONS AND WELL STATUS REPORT**

STATE Utah COUNTY Summit FIELD/LEASE Pineview

The following is a correct report of operations and production (including drilling and producing wells) for the month of:  
September, 19 77

Agent's Address 707 United Bank Tower Company American Quasar Petroleum Co.  
1700 Broadway Signed A. H. Hurley, Jr.  
Denver, Colorado 80290 Title A. H. Hurley, Jr.  
 Phone No. 303-861-8437 Division Operations Manager

Sec. and ¼ of ¼	Twp.	Range	Well No.	Days Produced	Barrels of Oil	Gravity	Cu. Ft. of Gas (In thousands)	Gallons of Gasoline Recovered	Barrels of Water (if none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
Sec. 4 NW/4SE/4 Newton Sheep Co.	2N	7E	1		0	45.0	0	0	0	SI Watered Out
						<u>NUGGET</u>				
										Gas Sold _____ 0 Flared/Vented _____ 0 Used on/off Lease _____ 0

NOTE: There were 153 runs or sales of oil; 0 M. cu. ft. of gas sold;  
0 runs or sales of gasoline during the month.

DRILLING/PRODUCING WELLS: This report must be filed on or before the sixteenth day of the succeeding month following production for each well. Where a well is temporarily shut-in, a negative report must be filed. **THIS REPORT MUST BE FILED IN DUPLICATE.**

STATE OF UTAH

DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL & GAS CONSERVATION

1588 WEST NORTH TEMPLE  
SALT LAKE CITY, UTAH 84116  
328-5771

State Lease No. \_\_\_\_\_  
Federal Lease No. U-25426 (Ac-  
quired Land)  
Indian Lease No. \_\_\_\_\_  
Fee & Pat. X

REPORT OF OPERATIONS AND WELL STATUS REPORT

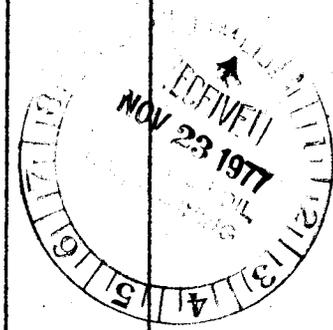
STATE Utah COUNTY Summit FIELD/LEASE Pineview

The following is a correct report of operations and production (including drilling and producing wells) for the month of:  
October, 19 77

Agent's Address 707 United Bank Tower  
1700 Broadway  
Denver, Colorado 80290  
Phone No. 303-861-8437

Company American Quasar Petroleum Co.  
Signed A. H. Hurley, Jr.  
Title Division Operations Manager

Sec. and 1/4 of 1/4	Twp.	Range	Well No.	Days Produced	Barrels of Oil	Gravity	Cu. Ft. of Gas (In thousands)	Gallons of Gasoline Recovered	Barrels of Water (if none, so state)	REMARKS (if drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
Sec. 4 NW/4SE/4 Newton Sheep Co.	2N	7E	1		0	45.0	<u>NUGGET</u> 0	0	0	SI Watered out
								Gas Sold _____ 0 Flared/Vented _____ 0 Used on/off Lease _____ 0		



NOTE: There were 0 runs or sales of oil; 0 M. cu. ft. of gas sold;  
0 runs or sales of gasoline during the month.

DRILLING/PRODUCING WELLS: This report must be filed on or before the sixteenth day of the succeeding month following production for each well. Where a well is temporarily shut-in, a negative report must be filed. **THIS REPORT MUST BE FILED IN DUPLICATE.**



STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

**SUNDRY NOTICES AND REPORTS ON WELLS**

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. <input type="checkbox"/> OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER		5. LEASE DESIGNATION AND SERIAL NO. Fee & U-25426
2. NAME OF OPERATOR American Quasar Petroleum Co. of New Mexico		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR 707 United Bank Tower, 1700 Broadway, Denver, CO 80290		7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface  1780' FSL & 1220' FEL (NE SE)		8. FARM OR LEASE NAME Newton Sheep Co.
14. PERMIT NO.	15. ELEVATIONS (Show whether DF, RT, GR, etc.) 6536' GR	9. WELL NO. 1
16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data		10. FIELD AND POOL, OR WILDCAT Pineview
		11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA Sec 4-2N-7E
		12. COUNTY OR PARISH Summit
		13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input checked="" type="checkbox"/>	(Other) _____	

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Workover to reestablish Nugget production and attempt initial completion in Twin Creek zone.

AS PER ATTACHED.

APPROVED BY THE DIVISION OF  
OIL, GAS, AND MINING  
DATE: April 4, 1978  
BY: Ph. Swartzell

18. I hereby certify that the foregoing is true and correct

SIGNED [Signature] TITLE Division Production Superintendent DATE 3-30-78

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

DEC. 6-1977

PROPOSED WORKOVER PROCEDURE

NEWTON SHEEP CO. #1

1. Pressure test casing.
2. Run casing inspection log, gauge ring.
3. Set cement retainer at 9810'+. Swab to test present Nugget perforations 9830-80'.
4. If satisfactory production is not obtained, squeeze cement below retainer.
5. Perforate and squeeze the following intervals for isolation:
  - a. 9665-70' (5')
  - b. 9380-85' (5')
  - c. 9190-95' (5')
6. Drill out and pressure test each squeeze individually.
7. Perforate Rich 2 spf w/4" casing gun. Swab to test. Acidize if necessary.
8. If no commercial production can be established, set a retrievable bridge plug and perforate and test Walton Canyon 9260-9340' (80').

NOTES:

1. Since 9 5/8" casing has been drilled through for a considerable time, care should be taken when pressure testing and squeezing in these intervals.
  2. BHP of Walton Canyon is indicated to be substantially less than formations below.
- 

DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL & GAS CONSERVATION

U-25420  
Federal Lease No. (Acquired Land)  
Indian Lease No. \_\_\_\_\_  
Fee & Pat. \_\_\_\_\_ X

1538 WEST NORTH TEMPLE  
SALT LAKE CITY, UTAH 84116  
323-5771

REPORT OF OPERATIONS AND WELL STATUS REPORT

STATE Utah COUNTY Summit FIELD/LEASE Pineview

The following is a correct report of operations and production (including drilling and producing wells) for the month of:  
June, 19 78

Agent's Address 707 United Bank Tower  
1700 Broadway  
Denver, CO 80290  
Phone No. (303)861-8437

Company Mexico American Quasar Petroleum Co. of New  
Signed R. J. Jensen, III  
Title Dist. Prod. Superintendent

Sec. and 1/4 of 1/4	Twp.	Range	Well No.	Days Produced	Barrels of Oil	Gravity	Cu. Ft. of Gas (in thousands)	Gallons of Gasoline Recovered	Barrels of Water (if none, so state)	REMARKS (if drilling, depth; if shut down, cause and result of test for gasoline contact of gas)
Sec. 4 NW/4SE/4 Newton Sheep Co.	2N	7E	1	0			<u>NUGGET</u>			SI pending further activity

Gas Sold \_\_\_\_\_  
Flared/Vented \_\_\_\_\_  
Used on/off Lease \_\_\_\_\_

NOTE: There were \_\_\_\_\_ runs or sales of oil; \_\_\_\_\_ M. cu. ft. of gas sold;  
\_\_\_\_\_ runs or sales of gasoline during the month.

DRILLING/PRODUCING WELLS: This report must be filed on or before the sixteenth day of the succeeding month following production for each well. Where a well is temporarily shut-in, a negative report must be filed. **THIS REPORT MUST BE FILED IN DUPLICATE.**

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

**SUNDRY NOTICES AND REPORTS ON WELLS**

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

		5. LEASE DESIGNATION AND SERIAL NO.	
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		7. UNIT AGREEMENT NAME	
2. NAME OF OPERATOR American Quasar Petroleum Co. of New Mexico		8. FARM OR LEASE NAME Newton Sheep Co.	
3. ADDRESS OF OPERATOR 707 United Bank Tower, 1700 Broadway, Denver, CO 80290		9. WELL NO. 1	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface E½ SE¼		10. FIELD AND POOL, OR WILDCAT Pineview	
		11. SEC., T., R., M., OR BLM. AND SURVEY OR AREA 4-2N-7E	
14. PERMIT NO.	15. ELEVATIONS (Show whether DF, RT, CR, etc.) 6555' KB	12. COUNTY OR PARISH Summit	13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) _____	
(Other) <input checked="" type="checkbox"/> Change completion zone	<input checked="" type="checkbox"/>	(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

1. Pull tubing.
  2. Squeeze perms below cement retainer set at 9000'.
  3. Block squeeze uncemented pipe above and below and perforate and test the following intervals individually:
 

a. 6498-6518'	APPROVED BY THE DIVISION OF OIL, GAS, AND MINING DATE: <u>Sept. 25, 1978</u> BY: <u>P. L. Quinnell</u>
b. 5997-6012'	
c. 4239-4249'	
d. 2935-2950'	
  4. Treat as necessary.
- Anticipate commencing operations on or before 9-27-78.

18. I hereby certify that the foregoing is true and correct  
 SIGNED [Signature] TITLE Production Superintendent DATE 9-20-78

(This space for Federal or State office use)  
 APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
 CONDITIONS OF APPROVAL, IF ANY:



STATE OF UTAH  
OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPLICATE\*  
(Other instructions on reverse side)

**SUNDRY NOTICES AND REPORTS ON WELLS**

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. <input type="checkbox"/> OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER		5. LEASE DESIGNATION AND SERIAL NO. FEE
2. NAME OF OPERATOR American Quasar Petroleum Co. of New Mexico		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR 707 United Bank Tower, 1700 Broadway, Denver, CO 80290		7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface  NE SE 1780' FSL & 1220' FEL		8. FARM OR LEASE NAME Newton Sheep
14. PERMIT NO.		9. WELL NO. 1
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 6536' GR		10. FIELD AND POOL, OR WILDCAT Pineview
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA 4-2N-7E
		12. COUNTY OR PARISH Summit
		13. STATE Utah



16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <u>Change completion zone</u>	<input checked="" type="checkbox"/>
(Other)		(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

9-26-78 MIRU, pulled tbg, ran cmt rtmr, set cmt plug @ 8879'.  
Pfd 6540' & 6482' w/4 shots each, sqzd w/250 sx. Drld out to 6557', ran GR-CCL 7229-6170'.  
Pfd 6498-6518' w/2 spf, rec wtr, NS 0 or G, sqzd w/150 sx Class G.  
Pfd 6078' & 5982' w/4 holes each, sqzd w/150 sx cmt, drld out 6102' PBD.  
Pfd 5997-6012' w/ 2 spf (Stump formation).  
Ran completion string, pkr @ 5902'. Installed tree, rlsd rig 10-20-78.  
Well flowed 4 hrs on 40/64" ck; rec 211 B0, 1 BW, 702 MCFD.

18. I hereby certify that the foregoing is true and correct

SIGNED

*[Signature]*

TITLE

Division Production Superintendent 10-26-78

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:



NEWTON SHEEP #1 PINEVIEW FIELD

SQUEEZE TO REDUCE WATER PRODUCTION

1. MIRU pulling unit, NU pumping tree. NU BOP's, test.
2. Pull rods and LD pump.
3. Release tubing anchor and pull tubing. Stand back tubing.
4. PU retrievable squeeze packer and 2 7/8" work string and GIH to 5800'. Drop ball and test tubing to 1000 psi. Reverse out ball, set packer and test annulus to 1000 psi.
5. Squeeze perf 5997-6012 with 100 sx Class G LWL cement. Stage as required to obtain minimum squeeze pressure of 1000 psi. Hold 1000 psi on annulus while squeezing. Release packer, reverse out. Pull 10 stands. SION with 1000 psi on squeeze.
6. Finish OOH. LD squeeze tool, PU bit and DC and drill out cement. Test squeeze to 1000 psi. POH, LD DC and bit.
7. RU and run GR-CCL from 6200-5500' and 4500-2500'. Perforate 5995-6012 using 4" casing gun with premium charges.
8. Run retrievable packer on tubing and set at ±5800'. Test annulus to 1000 psi.
9. RU and swab.
10. If well swabs down, acidize with 3000 gals 15% HCl. Flow and swab back acid load.
11. Pull tubing. LD packer and work string.
12. PU tubing anchor and production tubing and run to 5800'. Set anchor and hang tubing with 15,000 lbs. tension. Test tubing every 10 stands while GIH. ND BOP.
13. Run rods and pump. Hang rods and start pumping unit. If well pumps up, release rig.

APPROVED

Bob Seidel

DATE

6/19/50

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

5. LEASE DESIGNATION AND SERIAL NO.  
U-25426 (Acquired & FEE)

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
Newton Sheep Company

9. WELL NO.  
1

10. FIELD AND POOL, OR WILDCAT  
Pineview - Stump

11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA  
Sec. 4, T2N-R7E

12. COUNTY OR PARISH  
Summit

13. STATE  
Utah

**SUNDRY NOTICES AND REPORTS ON WELLS**

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL  GAS WELL  OTHER

2. NAME OF OPERATOR  
American Quasar Petroleum Co. of New Mexico

3. ADDRESS OF OPERATOR  
707 United Bank Tower 1700 Broadway Denver, Colorado 80290

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\* See also space 17 below.)  
At surface  
1780' FSL, 1220' FEL (NE SE)

14. PERMIT NO.  
43-043-30006

15. ELEVATIONS (Show whether DS, RT, OR, etc.)  
6555

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) _____	

(Other) Squeeze to reduce wtr. prod.

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

See attached

**RECEIVED**  
JUL 18 1980

DIVISION OF  
OIL, GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED [Signature] TITLE Div. Operations Mgr. DATE 7/16/80

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

**STATE OF UTAH**  
**DEPARTMENT OF NATURAL RESOURCES**  
**DIVISION OF OIL, GAS, AND MINING**

SUBMIT **TRIPPLICATE\***  
 (Other instructions on  
 reverse side)

<p><b>SUNDRY NOTICES AND REPORTS ON WELLS</b>                  (Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.                  Use "APPLICATION FOR PERMIT—" for such proposals.)</p>		<p>5. LEASE DESIGNATION AND SERIAL NO.                  U-25426 (Acquired &amp; Fee)</p> <p>6. IF INDIAN, ALLOTTEE OR TRIBE NAME</p>
<p>1. <input type="checkbox"/> OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER</p>		<p>7. UNIT AGREEMENT NAME</p>
<p>2. NAME OF OPERATOR                  American Quasar Petroleum Co. of New Mexico</p>		<p>8. FARM OR LEASE NAME                  Newton Sheep Company</p>
<p>3. ADDRESS OF OPERATOR                  707 United Bank Tower 1700 Broadway, Denver, Colorado 80290</p>		<p>9. WELL NO.                  1</p>
<p>4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*                  See also space 17 below.)                  At surface                  1780' FSL, 1220' FEL (NE SE)</p>		<p>10. FIELD AND POOL, OR WILDCAT                  Pineview - Stump</p>
<p>14. PERMIT NO.                  43 043 30006</p>		<p>11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA                  Sec. 4, T2N-R7E</p>
<p>15. ELEVATIONS (Show whether 27, 27, OR, etc.)                  6555</p>		<p>12. COUNTY OR PARISH 13. STATE                  Summit Utah</p>

**16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data**

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <u>Squeeze to reduce wtr prod.</u> <input checked="" type="checkbox"/>	
(Other)		(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) \*

See attached.



18. I hereby certify that the foregoing is true and correct

SIGNED *[Signature]* TITLE Div. Operations Mgr. DATE 8/7/80

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
 CONDITIONS OF APPROVAL, IF ANY:

Attachment to Sundry Report on  
Newton Sheep Company #1  
August 7, 1980

MIR 7/17/80. Pulled rods & pump.  
Set pkr @5792'.  
Squeeze perfs 5997-6012 w/100 sx Class "G" w/.6% D-60, displaced w/61 bbls treated  
formation wtr. Staged cement 3 times @ 5 min intervals, squeezed to 1250 psi.  
Released pkr, reversed out w/60 BW.  
Tagged cement @5919, drilled cement to 5948-6025'.  
Ran GR-CCL 6200-5500', 4500-2500'.  
Perf'd 5995-6012' w/4" csg gun, 4 SPF.  
Set pkr @5809'.  
Tested csg & pkr to 1000#.  
Swabbed well.  
Released pkr.  
NU pumping tree w/tbg anchor set @5814'.  
TIH w/rods & pump.  
Released rig 7/28/80.  
Replaced 100 jts 2 7/8" tbg w/3 1/2" tbg.



STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b> (Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)		<b>5. LEASE DESIGNATION AND SERIAL NO.</b> U-25426 (Acquired & FEE)
		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME</b>
<b>1. OIL WELL</b> <input checked="" type="checkbox"/> <b>GAS WELL</b> <input type="checkbox"/> <b>OTHER</b> <input type="checkbox"/>		<b>7. UNIT AGREEMENT NAME</b>
<b>2. NAME OF OPERATOR</b> American Quasar Petroleum Co. of New Mexico		<b>8. FARM OR LEASE NAME</b> Newton Sheep Company
<b>3. ADDRESS OF OPERATOR</b> 707 United Bank Tower 1700 Broadway Denver, CO 80290		<b>9. WELL NO.</b> 1
<b>4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)</b> At surface 1780 FSL, 1220 FEL (NE SE)		<b>10. FIELD AND POOL, OR WILDCAT</b> Pineview-Kelvin
		<b>11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA</b> Sec. 4, T2N-R7E
<b>14. PERMIT NO.</b> 43-043-30006	<b>15. ELEVATIONS (Show whether DF, RT, GR, etc.)</b> 6555'	<b>12. COUNTY OR PARISH</b> <b>13. STATE</b> Summit Utah

**16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data**

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	
(Other) Change Completion zone <input checked="" type="checkbox"/>		(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

**17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\***

See attached

**18. I hereby certify that the foregoing is true and correct**

SIGNED James T. Braun TITLE Division Production Manager DATE 3/19/82

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

## WORKOVER PROCEDURE

### NEWTON SHEEP #1

### PINEVIEW FIELD

1. MIRU, kill well if necessary. ND, NU, release tbg anchor, POH.
2. PU retrievable squeeze pkr & RIH on tbg. Set pkr at 5950(±). Squeeze Stump perforations 5997-6012 w/100 sx Class G cement. Hesitate as required to obtain squeeze. If not able to squeeze overdisplace and re-squeeze. Release pkr, pull uphole and reverse clean. Pull uphole 1000'(±) and re-set pkr. WOC.
3. POH, PU bit, csg scraper and DC's. RIH & clean out cement. Pressure test squeeze perforations. Re-squeeze if necessary, POH.
4. RU wireline company and perforate 4 squeeze holes at 6200'. Run CICR and set @6190'±.
5. PU stinger for CICR & RIH on tbg. Sting into retainer & establish injection w/water. Mix & pump 100 sx G. Squeeze perms at 6200'. Hesitate as required to obtain squeeze. Pull out of retainer, reverse clean, POH.
6. Perforate Stump sand 6142-48 and 6159-66 with 4" casing gun, 4 SPF. Depths are referenced to Schlumberger Compensated Neutron Formation Density, run 1 dated 6/18/74.
7. RIH w/retrievable pkr on tbg. Set pkr @6050± (old squeeze perms at 6078'). ND, NU. Swab test perms to determine if they are productive.
8. Acids if required with 3000 gals 15% HCl w/corrosion inhibitor. Drop 60 7/8" 1.1 SG ball sealers spaced evenly throughout.
9. Swab/flow back and determine if zone is productive.
10. If above zone is productive, leave on production. If not productive, continue with procedure. ND, NU. Release pkr, POH. Run CICR & set on wireline at 5975±. Squeeze Stump perms @6142-66 w/100 sx G. POH.
11. Perforate 4 squeeze holes at 4425'. Set retainer @4410 and squeeze w/100 sx G. Pull out of retainer and reverse clean. POH.
12. Perforate 4 squeeze holes at 4390'. RIH w/retrievable squeeze pkr and squeeze w/100 sx G. Release pkr, reverse clean. Pull uphole and re-set. WOC. POH.
13. PU bit, csg scraper and DC's. Clean out to CICR @4410'. Circulate hole clean, pressure test squeeze. POH.
14. Perforate Kelvin w/4" csg gun 4366-4380, 2 JSPF. Depths referenced to same log as above.
15. RIH w/retrievable pkr on tbg. Set pkr @4300'(±). RU and swab test.
16. Acids if required w/2000 gals 15% HCl. Pump at low rate (1 BPM). Displace w/water.

Page 2  
Newton Sheep #1  
Workover Procedure

17. Swab/flow test.
18. Further action depends on productivity of the well.

JTB  
01/19/81



STATE OF UTAH  
NATURAL RESOURCES & ENERGY  
Oil, Gas & Mining

Scott M. Matheson, Governor  
Temple A. Reynolds, Executive Director  
Cleon B. Feight, Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

March 22, 1982

American Quasar Petroleum Co.  
707 United Bank Tower  
1700 Broadway  
Denver, Colorado 80290

**FILE**

Re: Well No. Newton Sheep Company #1  
Sec. 4, T. 2N, R. 7E  
Summit County, Utah

Gentlemen:

In regards to the above referred to well, this office has information that your company is re-entering this well. Before you may re-enter a well you must file an application with this office.

If you do not file with this office, you are in violation with Rule C-4, General Rules and Regulations and Rules of Practice and Procedure, which states: "After a well has once been completed or plugged and abandoned, it shall not be deepened, plugged back or reworked except for ordinary maintenance operations, or be completed or reperfored in the same producing pool, without first giving written notice of the character of the work proposed to the Commission and its approval obtained".

Please send all re-entry information to this office immediately.

Sincerely,

DIVISION OF OIL, GAS AND MINING

Cari Furse  
Clerk Typist

DB/cf

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

WELL COMPLETION OR RECOMPLETION REPORT AND LOG \*

1a. TYPE OF WELL: OIL WELL  GAS WELL  DRY  Other \_\_\_\_\_  
 b. TYPE OF COMPLETION: NEW WELL  WORK OVER  DEEP-EN  PLUG BACK  DIFF. RESVR.  Other \_\_\_\_\_

2. NAME OF OPERATOR  
American Quasar Petroleum Co.

3. ADDRESS OF OPERATOR  
707 United Bank Tower 1700 Broadway Denver, CO 80290

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\*  
 At surface 1780' FSL, 1220' FEL, (NESE)  
 At top prod. interval reported below  
 At total depth

14. PERMIT NO. 43-043-30006 DATE ISSUED 9-28-73

5. LEASE DESIGNATION AND SERIAL NO. U25426 (Acquired & FEE)  
 6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
Newton Sheep Company

9. WELL NO. 1

10. FIELD AND POOL, OR WILDCAT  
Pineview-Kelvin

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA  
Sec. 4, T2N-R7E

12. COUNTY OR PARISH Summit 13. STATE Utah

15. DATE SPUDDED \*2/25/82 16. DATE T.D. REACHED -- 17. DATE COMPL. (Ready to prod.) 3/15/82 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\* 6555 GR 19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD 14,500 21. PLUG, BACK T.D., MD & TVD 6034' 22. IF MULTIPLE COMPL., HOW MANY\* 23. INTERVALS DRILLED BY ROTARY TOOLS CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\* 4366-4380 Kelvin 25. WAS DIRECTIONAL SURVEY MADE

26. TYPE ELECTRIC AND OTHER LOGS RUN 27. WAS WELL CORED

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
Same as previously reported.					

29. LINER RECORD 30. TUBING RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2 7/8"	4305	4305

31. PERFORATION RECORD (Interval, size and number) 32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

INTERVAL	SIZE	NUMBER	DESCRIPTION	DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
6159-66	4 SPF, 4"	1	casing gun	5997-6012	Sqzd w/100 sx G, 50 sx G w/.2%
6142-48				Halad 24. Displace w/46 BW.	
4366-4380	2 SPF, 4"	1	casing gun	6159-66, 6142-48	Sqzd w/125 sx G w/.2% D19.
				(See attached)	Displace w/50 BW.

33.\* PRODUCTION

DATE FIRST PRODUCTION 3/11/82 PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Flowing WELL STATUS (Producing or shut-in) Producing

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
3/11/82	24	18/64"	→	403	292	8	725.1
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
390	0	→					

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Sale - Mountain Fuel Supply TEST WITNESSED BY Paul Smith

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records  
 SIGNED James T. Brown TITLE Division Production Manager DATE 3/25/82

\*(See Instructions and Spaces for Additional Data on Reverse Side)

Attachment to Well Recompletion Report  
Newton Sheep #1  
March 25, 1982

---

32. (Cont'd)

Interval 4366-80, Acidized w/2000 gal 15% HCl, flush w/46 bbls treated formation water.

**COMPANY** AMERICAN QUASAR PETROLEUM COMPANY **WELL** NEWTON SHEEP CO. #1 **TEST NO.** 8 **COUNTY** SUMMIT **STATE** UTAH

**JOHNSTON**  
**Schlumberger**

**technical  
report**



## SUPPLEMENTARY SHEET FOR FIELD REPORT #06173 C

## SURFACE INFORMATION

<u>DESCRIPTION (RATE OF FLOW)</u>	<u>TIME</u>	<u>PRESSURE</u> <u>(P.S.I.G.)</u>	<u>CHOKE</u>
OPENED TOOL (12-21-74) STRONG BLOW, 1" IN WATER, IN- CREASING TO A BLOW OFF BOTTOM OF BUCKET.	0705	-	1/4"
GAS TO SURFACE	0712	-	"
FLUID TO SURFACE	0722	-	"
CLOSED FOR INITIAL SHUT-IN	0735	-	"
FINISHED SHUT-IN	0948	-	"
RE-OPENED TOOL HAD 80 P.S.I. ON 1/4" CHOKE. FLOWED THROUGH SEPARATOR.	0950	-	"
OIL IN TANK	1020	-	"
CLOSED FOR SECOND SHUT-IN	1055	1160	"
FINISHED SHUT-IN	1155	-	"
RE-OPENED TOOL SURFACE PRESSURE STABILIZED AT 1100 P.S.I. ON 1/4" CHOKE. FLOW THROUGH SEPARATOR WAS APPROXIMATELY 16 BBLs/HOUR AND 259 TO 370 MCF/DAY OF GAS ON A 3/4" ORIFICE PLATE WITH 10 TO 18 P.S.I.	1157	-	"
CLOSED FOR THIRD SHUT-IN	1503	1100	"
RE-OPENED TOOL	1758	250	1/2"
CHANGED TO 3/8" CHOKE SURFACE PRESSURE STABILIZED AT 1225 P.S.I. ON 3/8" CHOKE.	1813	-	3/8"
CLOSED FOR FOURTH SHUT-IN (12-22-74)	0620	-	"
RE-OPENED TOOL (12-23-74)	0705	-	"

BOTTOM HOLE PRESSURE RECORDERS  
STOPPED. NO OTHER BOTTOM HOLE  
PRESSURE DATA TO CORRELATE TO  
SURFACE LOG.

## FLOWED:

1ST., 2ND., 3RD., 4TH. FLOW - 100% OIL WITH TRACE OF BASIC SEDIMENT  
GRAVITY = 48 AT 60°F.  
5TH. FLOW - 99.6% OIL, .4% WATER. GRAVITY = 44 AT 60°F.  
6TH. FLOW - 95-97% OIL, 2-4% WATER, 1% BASIC SEDIMENT.  
GRAVITY = 44 AT 60°F.

## FIELD REPORT #06173 C

<u>DESCRIPTION</u>	<u>POINT</u>	<u>TIME OF DAY</u>	<u>INCR.</u>	<u>INSTRUMENT #J-450 PRESSURE (P.S.I.G.)</u>	<u>INSTRUMENT #J-300 PRESSURE (P.S.I.G.)</u>
INITIAL HYDROSTATIC	1	-		4887.7	4727.5 +
OPENED TOOL - INITIAL	2	0705	0	826.2	879.6
FLOW (12-21-74)			10		2000.6
			20		2306.8
			30		2800.2
MAXIMUM INITIAL FLOW					
PRESSURE	3	0738	33	2861.5	2934.4
FLOW PRESSURE	4	0739	34	2635.1	2616.8
FLOW PRESSURE -					
CLOSED FOR INITIAL					
SHUT-IN	5	0740	35	2664.4	2663.1
			5		4174.5
			10		4177.4
			15		4177.4
			20		4177.4
			25		4177.4
			30		4177.4
			35		4177.4
			40		4177.4
			45		4180.2
			50		4180.2
			55		4180.2
			60		4180.2
			65		4180.2
			70		4180.2
			75		4180.2
			80		4180.2
			85		4180.2
			90		4180.2
			95		4180.2
			100		4180.2
			105		4180.2
			110		4180.2
			115		4180.2
			120		4180.2
			125		4180.2
			130		4180.2
			135		4180.2
INITIAL SHUT-IN	6	0956	136	4221.4	4180.2
RE-OPENED TOOL -					
SECOND FLOW	7	0957	0	2093.0	2103.6
			10		2702.8
			20		3260.5
			30		3807.8
			40		4098.0
			50		4123.5
			60		4125.4
FLOW PRESSURE - CLOSED					
FOR SECOND SHUT-IN	8	1059	62	4146.6	4126.3
			5		4177.4
			10		4177.4
			15		4177.4
			20		4177.4
			25		4177.4

<u>DESCRIPTION</u>	<u>POINT</u>	<u>TIME OF DAY</u>	<u>INCRE.</u>	<u>INSTRUMENT #J-450 PRESSURE (P.S.I.G.)</u>	<u>INSTRUMENT #J-300 PRESSURE (P.S.I.G.)</u>
			30		4177.4
			36		4177.4
			40		4177.4
			45		4177.4
			50		4177.4
			55		4177.4
			60		4177.4
SECOND SHUT-IN	9	1202	63	4226.9	4177.4
RE-OPENED TOOL -					
THIRD FLOW	10	1203	64	3312.4	3282.2
			10		3742.6
FLOW PRESSURE	11	1216	13	4102.8	4086.6
			20		4086.6
			30		4087.6
			40		4087.6
			50		4106.5
			60		4104.6
			70		4105.5
			80		4107.4
			90		4107.4
			100		4107.4
			110		4109.3
			120		4109.3
			130		4109.3
			140		4109.3
			150		4111.2
			160		4111.2
			170		4112.1
			180		4112.1
FLOW PRESSURE - CLOSED			185	4122.8	4112.1
FOR THIRD SHUT-IN	12	1508	5		4191.5
			10		4191.5
			15		4191.5
			20		4191.5
			25		4191.5
			30		4191.5
			35		4191.5
			40		4191.5
			45		4191.5
			50		4191.5
			55		4191.5
			60		4191.5
			65		4191.5
			70		4191.5
			75		4191.5
			80		4191.5
			85		4191.5
			90		4191.5
			95		4191.5
			100		4191.5
			105		4191.5
			110		4191.5
			115		4191.5
			120		4191.5

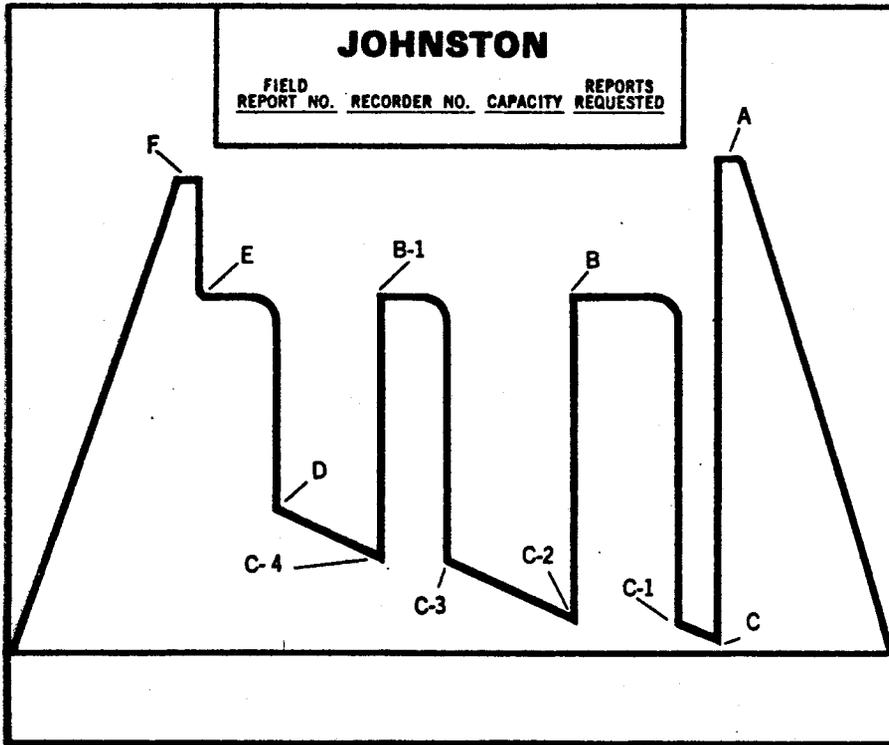
<u>DESCRIPTION</u>	<u>POINT</u>	<u>TIME OF DAY</u>	<u>INCRE.</u>	<u>INSTRUMENT #J-450 PRESSURE (P.S.I.G.)</u>	<u>INSTRUMENT #J-300 PRESSURE (P.S.I.G.)</u>
			125		4191.5
			130		4191.5
			135		4191.5
			140		4191.5
			145		4191.5
			150		4191.5
			155		4191.5
			160		4191.5
			165		4191.5
			170		4191.5
			175		4191.5
THIRD SHUT-IN RE-OPENED TOOL -	13	1805	177	4206.8	4191.5
FOURTH FLOW PRESSURE	14	1806	178	2595.0	2594.1
			20		3688.7
FLOW PRESSURE	15	1840	34	3944.0	3937.3
			40		3994.0
			60		4078.1
			80		4091.3
			100		4099.8
			120		4099.8
			140		4099.8
			160		4099.8
FLOW PRESSURE	16	2052	166	4117.4	4099.8
			180		4134.8
			200		4140.5
			220		4140.5
			240		4140.5
			260		4141.4
			280		4142.4
			300		4146.2
			320		4146.2
			340		4147.1
			360		4148.1
			380		4148.1
			400		4147.1
			420		4147.1
			440		4146.2
			460		4145.2
			480		4144.3
			500		4144.3
			520		4143.3
			540		4142.4
			560		4142.4
			580		4141.4
FLOW PRESSURE (12-22-74)	17	0356	590	4150.2	4141.4
			600		4185.9
			620		4188.7
			640		4188.7
MAXIMUM FLOW PRESSURE	18	0501	655	4197.7	4192.5
			660		4142.4
			680		4125.4
			700		4125.4
FLOW PRESSURE	19	0551	705	4163.0	4125.4
			720		4168.8

<u>DESCRIPTION</u>	<u>POINT</u>	<u>TIME OF DAY</u>	<u>INCR.</u>	<u>INSTRUMENT #450 PRESSURE (P.S.I.G.)</u>	<u>INSTRUMENT #300 PRESSURE (P.S.I.G.)</u>
FLOW PRESSURE	20	0612	726	4203.2	4185.9
FLOW PRESSURE - CLOSED FOR FOURTH SHUT-IN	21	0620	734	4170.3	4134.8
			20		4199.1
			40		4199.1
			60		4199.1
			80		4199.1
			100		4200.0
			120		4201.0
			140		4202.9
			160		4202.9
			180		4203.8
			200		4203.8
			220		4204.8
			240		4204.8
			260		4204.8
			280		4204.8
			300		4204.8
			320		4204.8
			340		4204.8
			360		4204.8
			380		4204.8
			400		4204.8
			420		4204.8
			440		4204.8
			460		4204.8
			480		4204.8
			500		4204.8
			520		4204.8
			540		4204.8
			560		4204.8
			580		4204.8
			600		4204.8
			620		4204.8
			640		4204.8
			660		4204.8
			680		4204.8
			700		4204.8
			720		4204.8
			740		4204.8
			760		4204.8
			780		4204.8
			800		4204.8
			820		4204.8
			840		4204.8
			860		4204.8
			880		4204.8
			900		4204.8
			920		4204.8
			940		4204.8
			960		4204.8
			980		4204.8
			1000		4204.8
			1020		4204.8
			1040		4204.8

<u>DESCRIPTION</u>	<u>POINT</u>	<u>TIME OF DAY</u>	<u>INCRE.</u>	<u>INSTRUMENT #J-450 PRESSURE(P.S.I.G.)</u>	<u>INSTRUMENT #J-300 PRESSURE(P.S.I.G.)</u>
			1060		4204.8
			1080		4204.8
FOURTH SHUT-IN - CLOCKS STOPPED DURING THIS SHUT-IN. CLOCKS RAN PERIODICALLY FOR RE- MAINDER OF LABELED POINTS, WHICH MAKES TIME OF DAY IM- POSSIBLE TO CAL- CULATE. (12-23-74)	22	0038	1098	4217.8	4204.8
RE-OPENED TOOL - FLOW PRESSURE	23	-		2518.3	2545.0
MINIMUM FLOW PRESSURE	24	-		2461.7	2477.9
FLOW PRESSURE	25	-		4192.2	4181.1
FLOW PRESSURE	26	-		3714.0	3696.2
				CLOCK STOPPED AT THIS POINT.	
FLOW PRESSURE	27	-			3799.3
FLOW PRESSURE	28	-			4112.1
FLOW PRESSURE	29	-			3833.3
FLOW PRESSURE	30	-			4192.5
FLOW PRESSURE	31	-			3890.0
					CLOCK STOPPED AT THIS POINT.
CAPACITY (P.S.I.G.):				9000#	4700#
DEPTH:				9900'	9935'
INSTRUMENT OPENING:				INSIDE	OUTSIDE
WELL TEMPERATURE:				200°F.	200°F.

INCREMENTAL BREAKDOWN DONE ON INSTRUMENT NUMBER J-300.

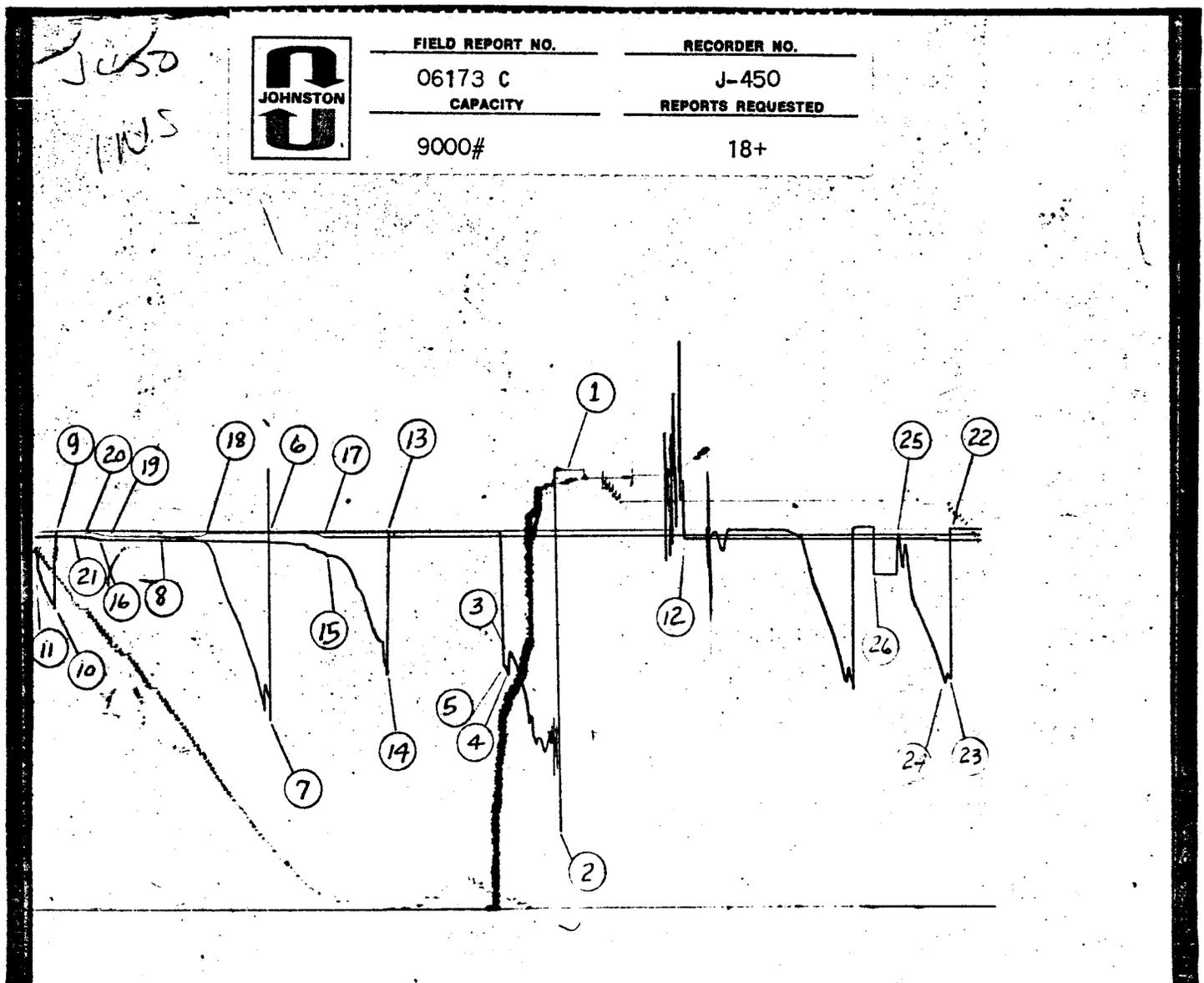
# GUIDE TO IDENTIFICATION OF DRILL STEM TEST PRESSURE CHARTS



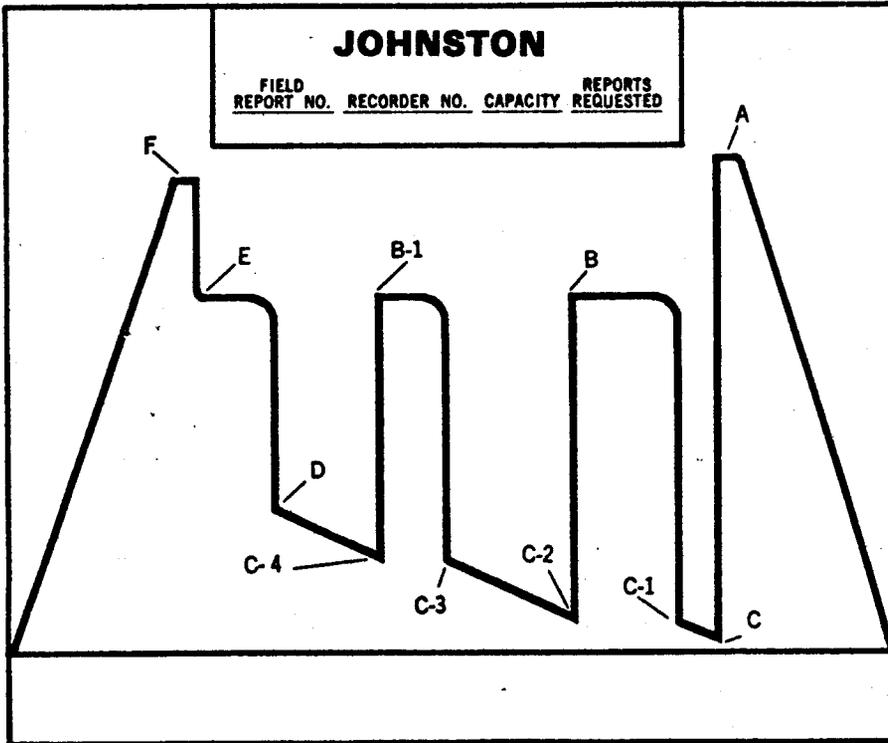
- A. Initial Hyd. Mud
- B. Initial Shut-in
- C. Initial Flow
- D. Final Flow
- E. Final Shut-in
- F. Final Hyd. Mud

The following points are either fluctuating pressures or points indicating other packer settings, (testing different zones).

- A-1, A-2, A-3, etc. Initial Hyd. Pressures
- B-1, B-2, B-3, etc. Subsequent Shut-in Pressures
- C-1, C-2, C-3, etc. Flowing Pressures
- D-1, D-2, D-3, etc. Subsequent Final Flow Pressures
- E-1, E-2, E-3, etc. Subsequent Final Shut-in Pressures
- F-1, F-2, F-3, etc. Final Hyd. Mud Pressures
- Z — Special pressure points such as pumping pressure recorded for formation breakdown.



# GUIDE TO IDENTIFICATION OF DRILL STEM TEST PRESSURE CHARTS



- A. Initial Hyd. Mud
- B. Initial Shut-in
- C. Initial Flow
- D. Final Flow
- E. Final Shut-in
- F. Final Hyd. Mud

The following points are either fluctuating pressures or points indicating other packer settings, (testing different zones).

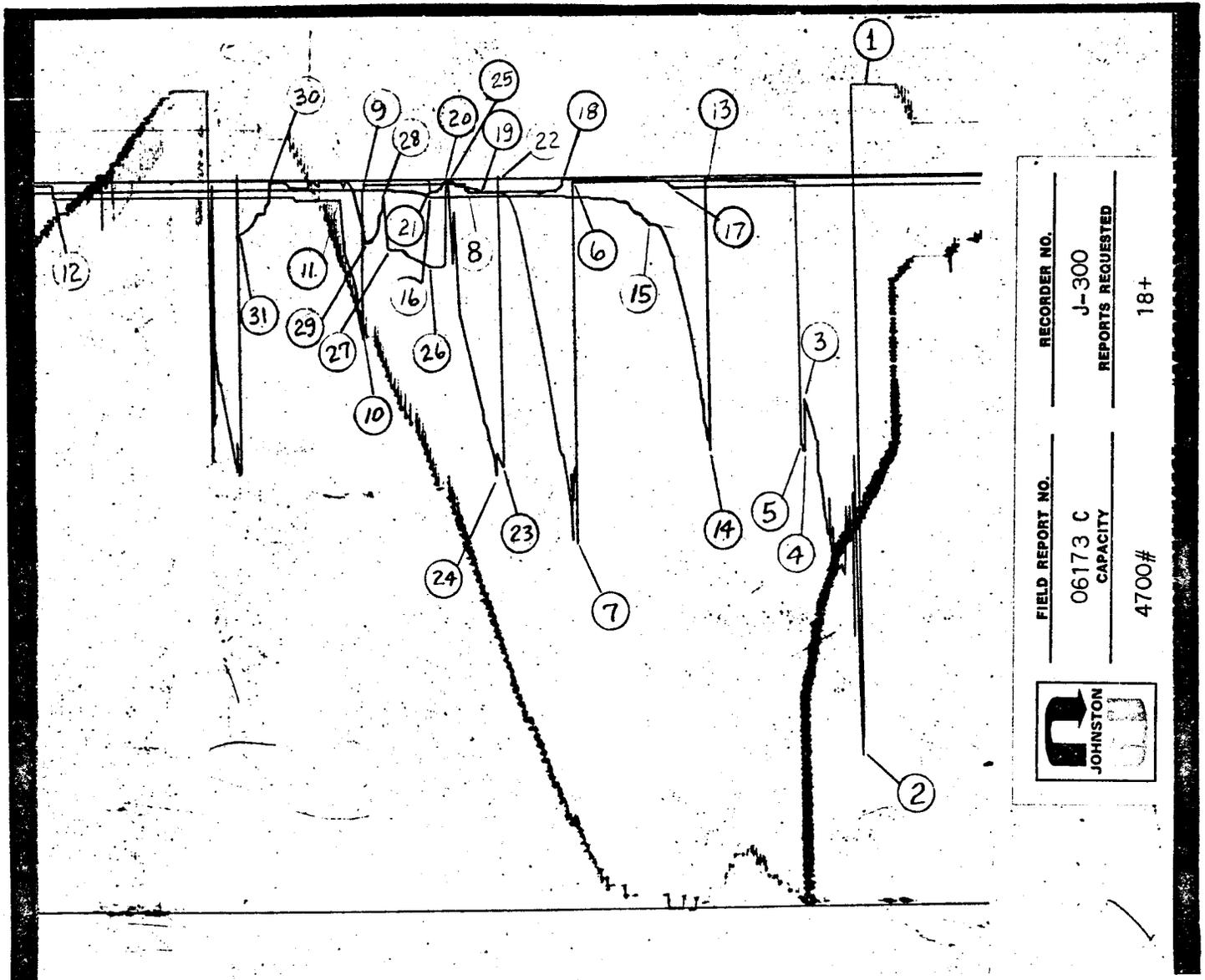
A-1, A-2, A-3, etc. Initial Hyd. Pressures  
 B-1, B-2, B-3, etc. Subsequent Shut-in Pressures

C-1, C-2, C-3, etc. Flowing Pressures  
 D-1, D-2, D-3, etc. Subsequent Final Flow Pressures

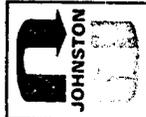
E-1, E-2, E-3, etc. Subsequent Final Shut-in Pressures

F-1, F-2, F-3, etc. Final Hyd. Mud Pressures

Z— Special pressure points such as pumping pressure recorded for formation breakdown.



FIELD REPORT NO.	RECORDER NO.
06173 C	J-300
CAPACITY	REPORTS REQUESTED
4700#	18+



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# PRESSURE LOG\*

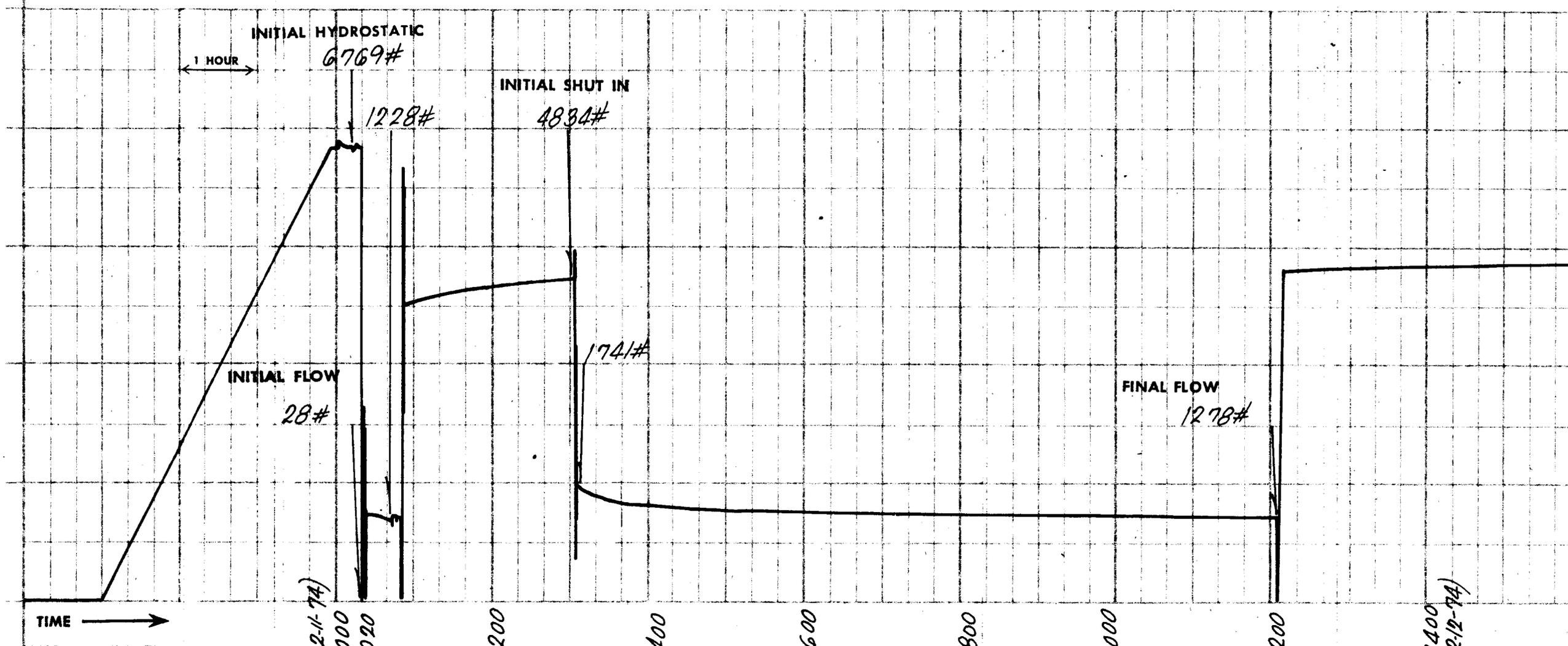
Field Report No. 06172C

Instrument:  
Number J-532

Capacity 9000 p.s.i.

Depth 10617 ft.

\*a continuous tracing of the original chart





**PRESSURE DATA**

Instrument No.	J-450	J-532	Field Report No. 06172 C	
Capacity (P.S.I.G.)	9000	9000		
Instrument Depth	10587'	10617'		
Instrument Opening	OUTSIDE	INSIDE		
Pressure Gradient P.S.I./Ft.				
Well Temperature °F.	210	210		
			<b>TIME DATA</b>	
Initial Hydrostatic Mud	A	6809	6769	
Initial Shut-in	B	* 4865	* 4834	Time Given: 125 Mins. Time Computed: 138 Mins.
Initial Flow	C	3883	28	35 Mins. 26 Mins.
	C-1	4462	1228	- Mins. - Mins.
	C-2	4370	1741	- Mins. - Mins.
Final Flow	D	5014	1278	539 Mins. 541 Mins.
Final Shut-in	E	* 5140	* 5119	540 Mins. 534 Mins.
Final Hydrostatic Mud	F	6632	6606	

**Remarks:**

FLOW PRESSURES ARE NOT CONSIDERED RELIABLE RESERVOIR VALUES DUE TO PLUGGING OF THE PERFORATED ANCHOR.

INCREMENTAL BREAKDOWN DONE ON INSTRUMENT NUMBER J-532.

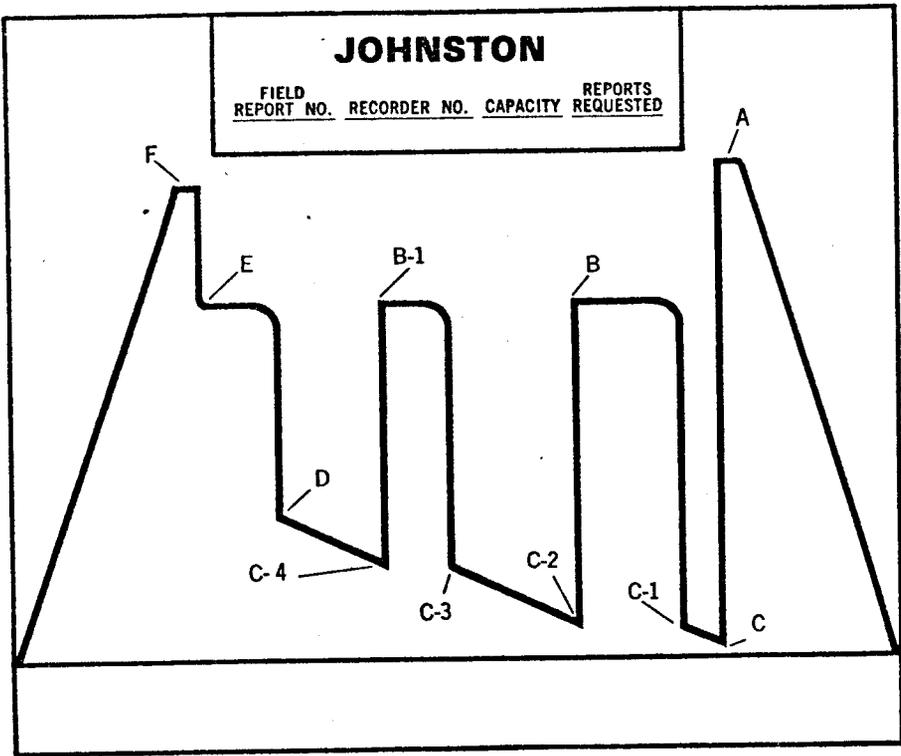
\* Shut in pressure did not reach static reservoir pressure.

Clock Travel 0.01037 inches per min.

**PRESSURE INCREMENTS**

Point Minutes	Pressure	$\frac{T + \Delta t}{\Delta t}$	Point Minutes	Pressure	$\frac{T + \Delta t}{\Delta t}$	Point Minutes	Pressure	$\frac{T + \Delta t}{\Delta t}$
INITIAL SHUT-IN			FINAL FLOW CONTINUED			FINAL SHUT-IN		
C-1	0	1228	140	1353		D	0	1278
	10	2462	160	1342			20	4983
	20	4512	180	1333			40	4999
	30	4564	200	1326			60	5010
	40	4605	220	1319			80	5013
	50	4641	240	1314			100	5020
	60	4673	260	1306			120	5031
	70	4700	280	1301			140	5033
	80	4723	300	1301			160	5036
	90	4748	320	1297			180	5045
	100	4727	340	1296			200	5047
	110	4786	360	1292			220	5056
	120	4806	380	1292			240	5060
	130	4820	400	1296			260	5069
B	138	4834	420	1292			280	5069
			440	1292			300	5074
			460	1289			320	5083
			480	1285			340	5086
INITIAL FLOW			500	1281			360	5094
C	0	28	520	1278			380	5103
	20	1246	540	1278			400	5103
C-1	26	1228	D	541	1278		420	5110
							440	5113
FINAL FLOW							460	5115
C-2	0	1741					480	5117
	20	1548					500	5117
	40	1473					520	5119
	60	1435				E	534	5119
	80	1408						
	100	1383						
	120	1367						
CONTINUED								

# GUIDE TO IDENTIFICATION OF DRILL STEM TEST PRESSURE CHARTS

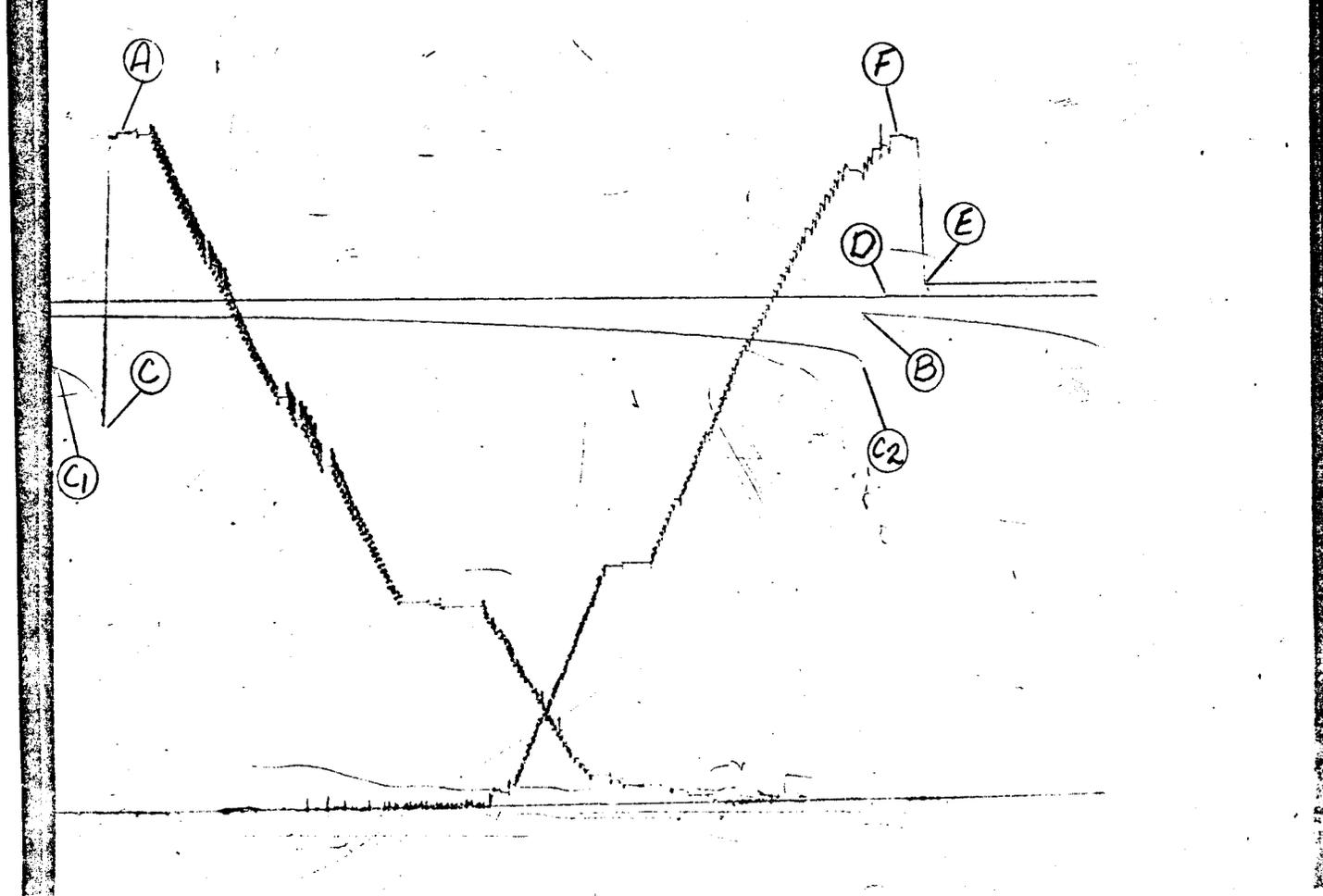


- A. Initial Hyd. Mud
- B. Initial Shut-in
- C. Initial Flow
- D. Final Flow
- E. Final Shut-in
- F. Final Hyd. Mud

*The following points are either fluctuating pressures or points indicating other packer settings, (testing different zones).*

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- B-1, B-2, B-3, etc. Subsequent Shut-in Pressures
- C-1, C-2, C-3, etc. Flowing Pressures
- D-1, D-2, D-3, etc. Subsequent Final Flow Pressures
- E-1, E-2, E-3, etc. Subsequent Final Shut-in Pressures
- F-1, F-2, F-3, etc. Final Hyd. Mud Pressures
- Z — Special pressure points such as pumping pressure recorded for formation breakdown.

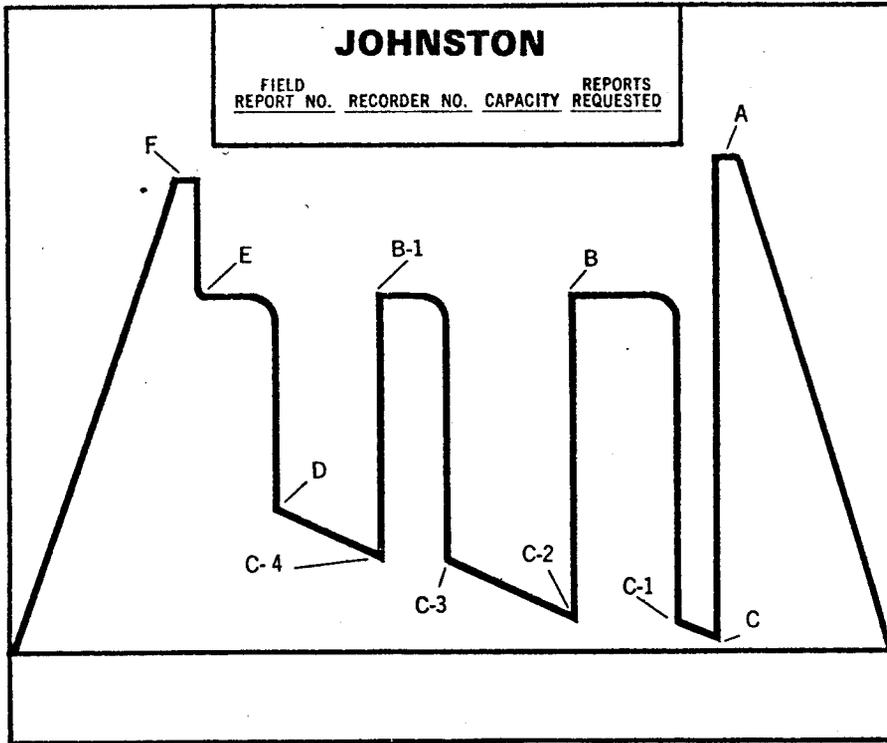
J450 D 	FIELD REPORT NO.	RECORDER NO.
	06172 C	J-450
	CAPACITY 9000#	REPORTS REQUESTED 5+





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# GUIDE TO IDENTIFICATION OF DRILL STEM TEST PRESSURE CHARTS



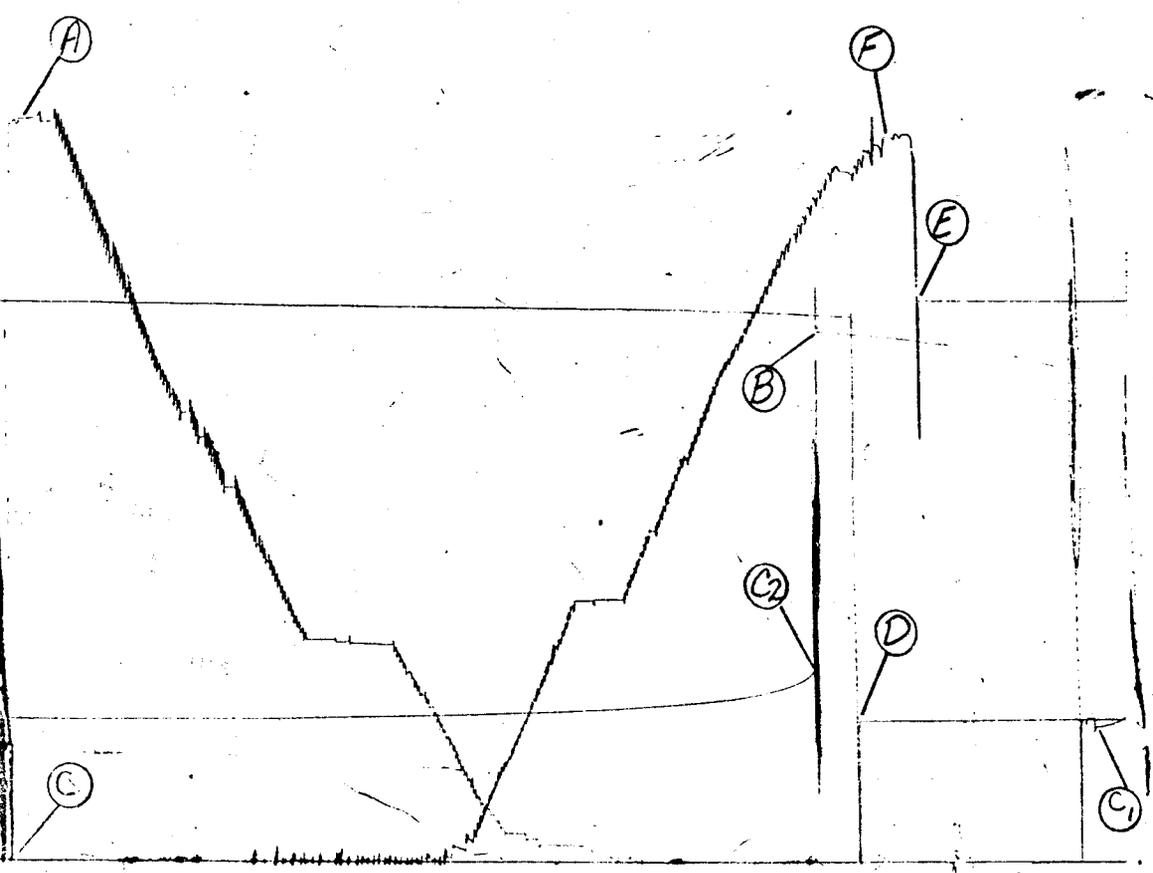
- A. Initial Hyd. Mud
- B. Initial Shut-in
- C. Initial Flow
- D. Final Flow
- E. Final Shut-in
- F. Final Hyd. Mud

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- D-1, D-2, D-3, etc. Subsequent Final Flow Pressures
- E-1, E-2, E-3, etc. Subsequent Final Shut-in Pressures
- F-1, F-2, F-3, etc. Final Hyd. Mud Pressures
- Z— Special pressure points such as pumping pressure recorded for formation breakdown.

J5321N

	<b>FIELD REPORT NO.</b> 06172 C	<b>RECORDER NO.</b> J-532
	<b>CAPACITY</b> 9000#	<b>REPORTS REQUESTED</b> 5+



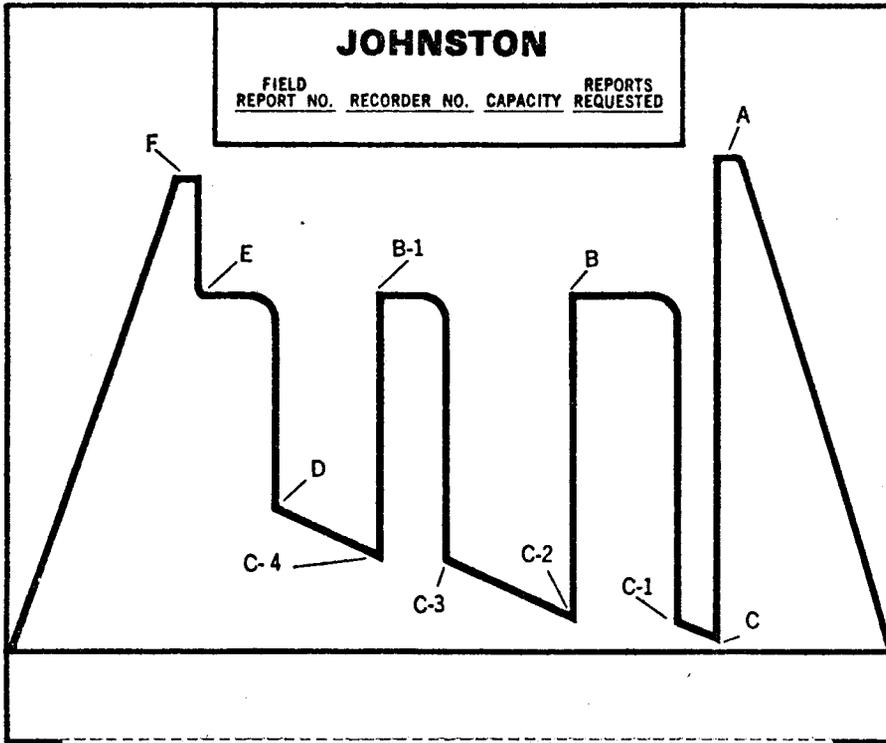
COMPANY AMERICAN QUASAR WELL NEWTON SHEEP CO. #1 TEST NO. 4 COUNTY SUMMIT STATE UTAH  
PETROLEUM COMPANY

**JOHNSTON**  
**Schlumberger**

**technical  
report**



# GUIDE TO IDENTIFICATION OF DRILL STEM TEST PRESSURE CHARTS



- A. Initial Hyd. Mud
- B. Initial Shut-in
- C. Initial Flow
- D. Final Flow
- E. Final Shut-in
- F. Final Hyd. Mud

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- C-1, C-2, C-3, etc. Flowing Pressures
- D-1, D-2, D-3, etc. Subsequent Final Flow Pressures
- E-1, E-2, E-3, etc. Subsequent Final Shut-in Pressures
- F-1, F-2, F-3, etc. Final Hyd. Mud Pressures
- Z — Special pressure points such as pumping pressure recorded for formation breakdown.



FIELD REPORT NO.

06171 C  
CAPACITY

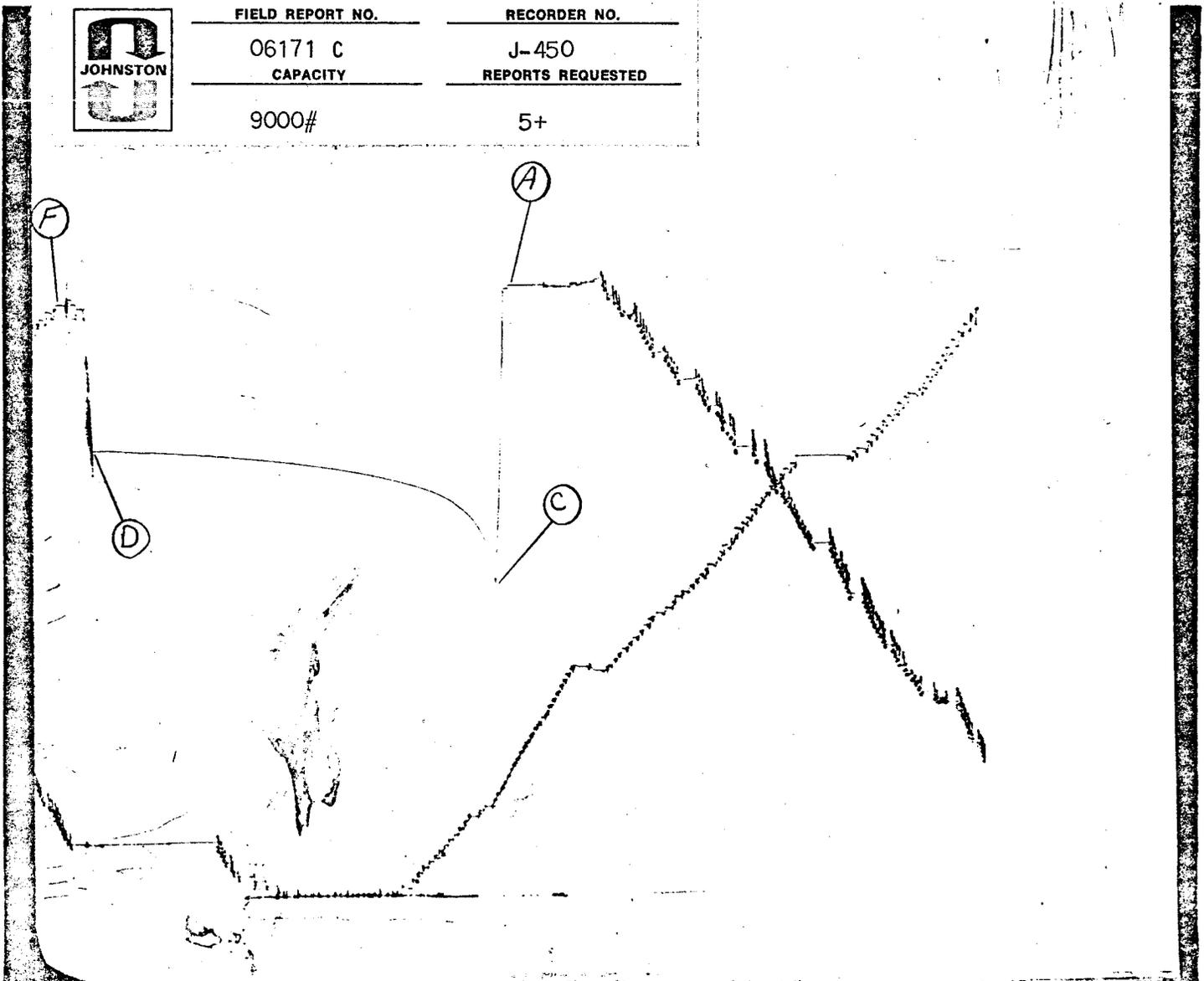
9000#

RECORDER NO.

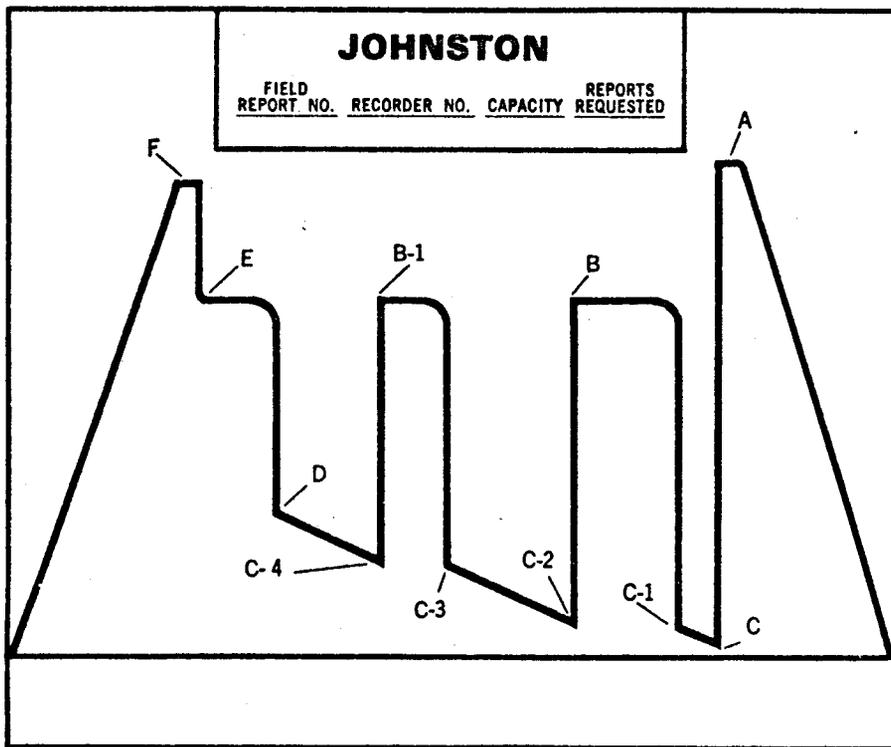
J-450

REPORTS REQUESTED

5+



# GUIDE TO IDENTIFICATION OF DRILL STEM TEST PRESSURE CHARTS



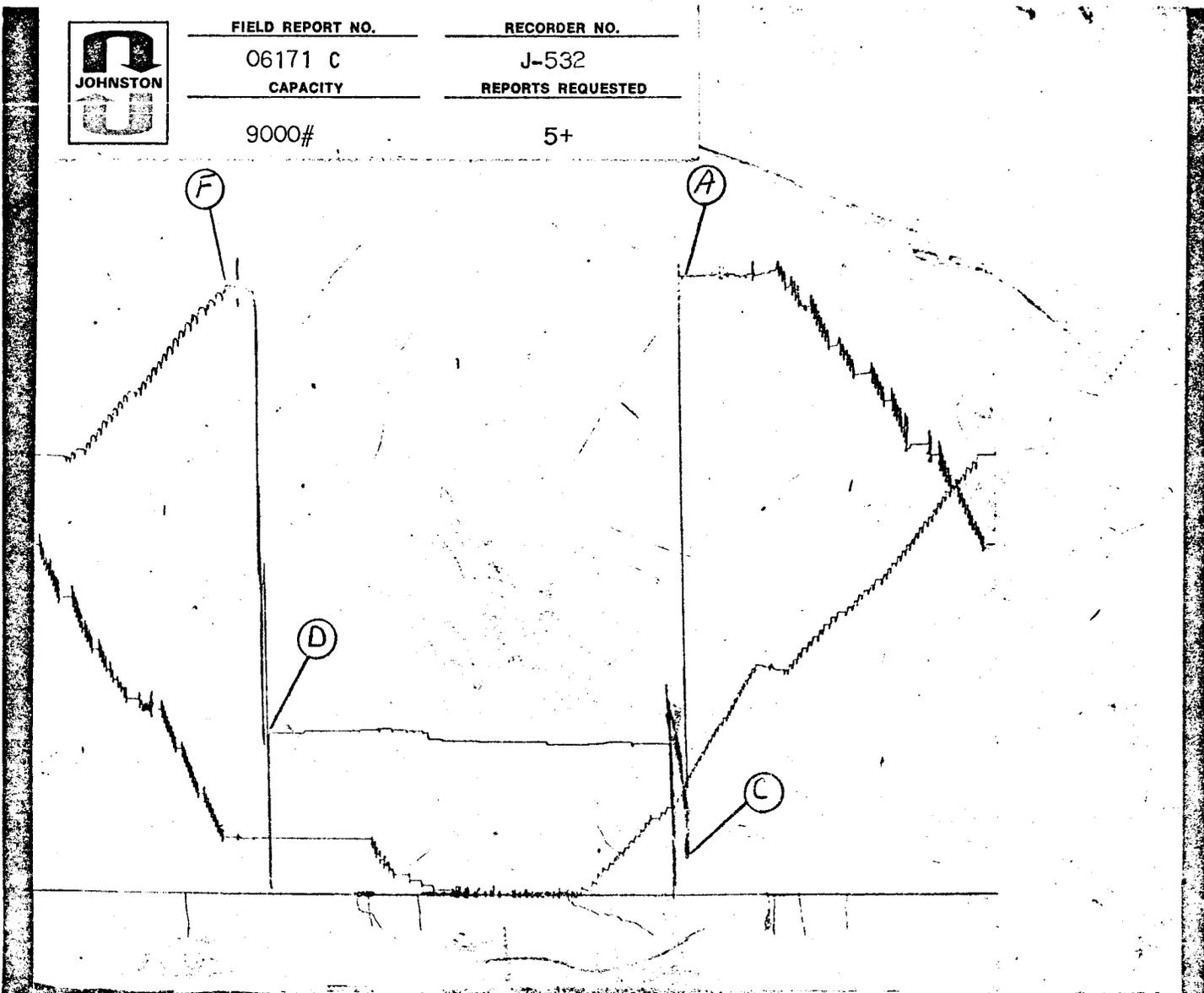
- A. Initial Hyd. Mud
- B. Initial Shut-in
- C. Initial Flow
- D. Final Flow
- E. Final Shut-in
- F. Final Hyd. Mud

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- C-1, C-2, C-3, etc. Flowing Pressures
- D-1, D-2, D-3, etc. Subsequent Final Flow Pressures
- E-1, E-2, E-3, etc. Subsequent Final Shut-in Pressures
- F-1, F-2, F-3, etc. Final Hyd. Mud Pressures
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FIELD REPORT NO.	RECORDER NO.
06171 C	J-532
CAPACITY	REPORTS REQUESTED
9000#	5+



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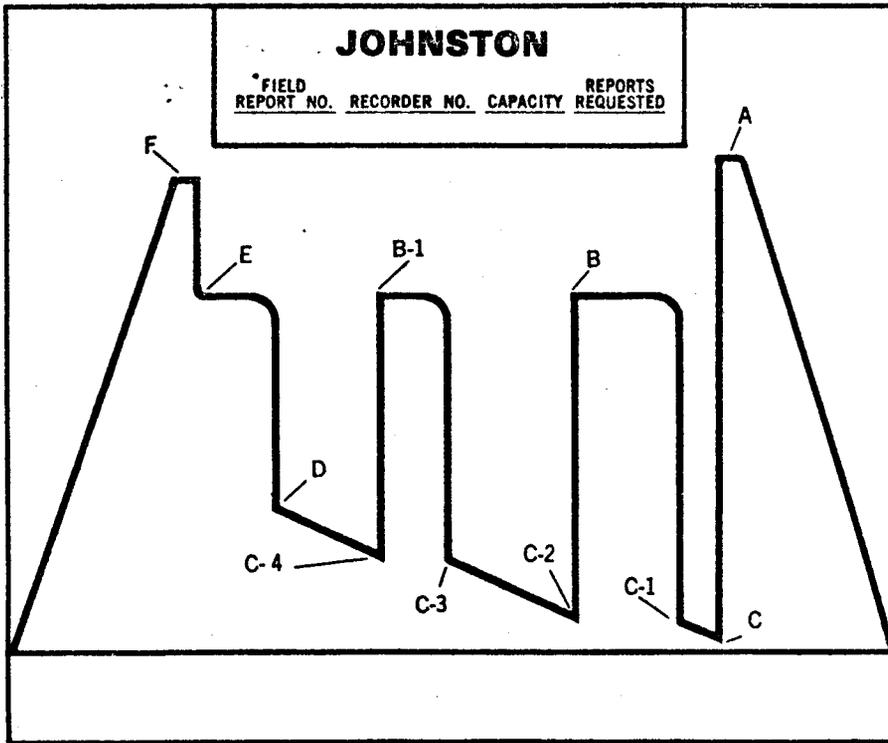






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# GUIDE TO IDENTIFICATION OF DRILL STEM TEST PRESSURE CHARTS



- A. Initial Hyd. Mud
- B. Initial Shut-in
- C. Initial Flow
- D. Final Flow
- E. Final Shut-in
- F. Final Hyd. Mud

The following points are either fluctuating pressures or points indicating other packer settings, (testing different zones).

- A-1, A-2, A-3, etc. Initial Hyd. Pressures
- B-1, B-2, B-3, etc. Subsequent Shut-in Pressures
- C-1, C-2, C-3, etc. Flowing Pressures
- D-1, D-2, D-3, etc. Subsequent Final Flow Pressures
- E-1, E-2, E-3, etc. Subsequent Final Shut-in Pressures
- F-1, F-2, F-3, etc. Final Hyd. Mud Pressures
- Z— Special pressure points such as pumping pressure recorded for formation breakdown.



FIELD REPORT NO.

06170 C

CAPACITY

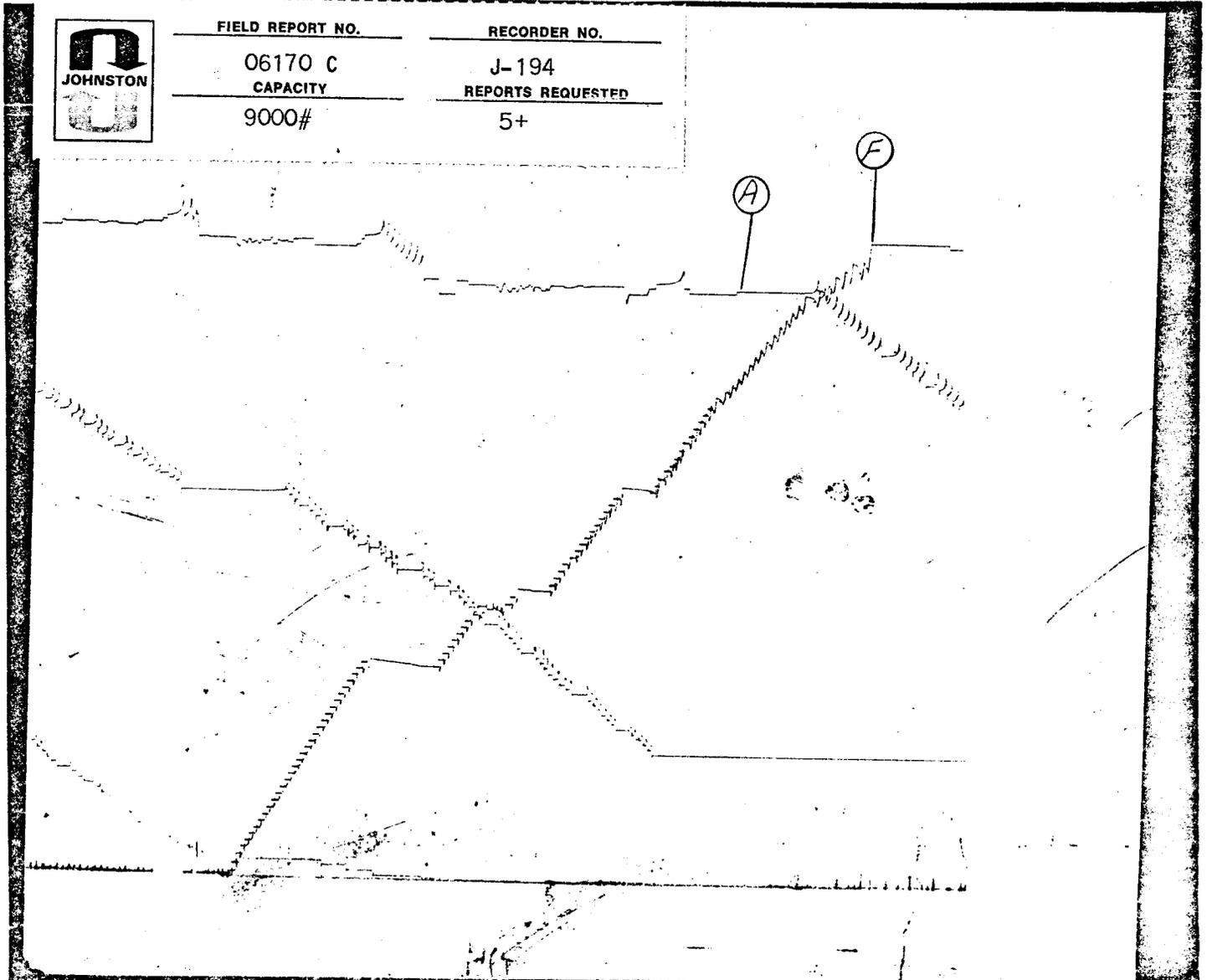
9000#

RECORDER NO.

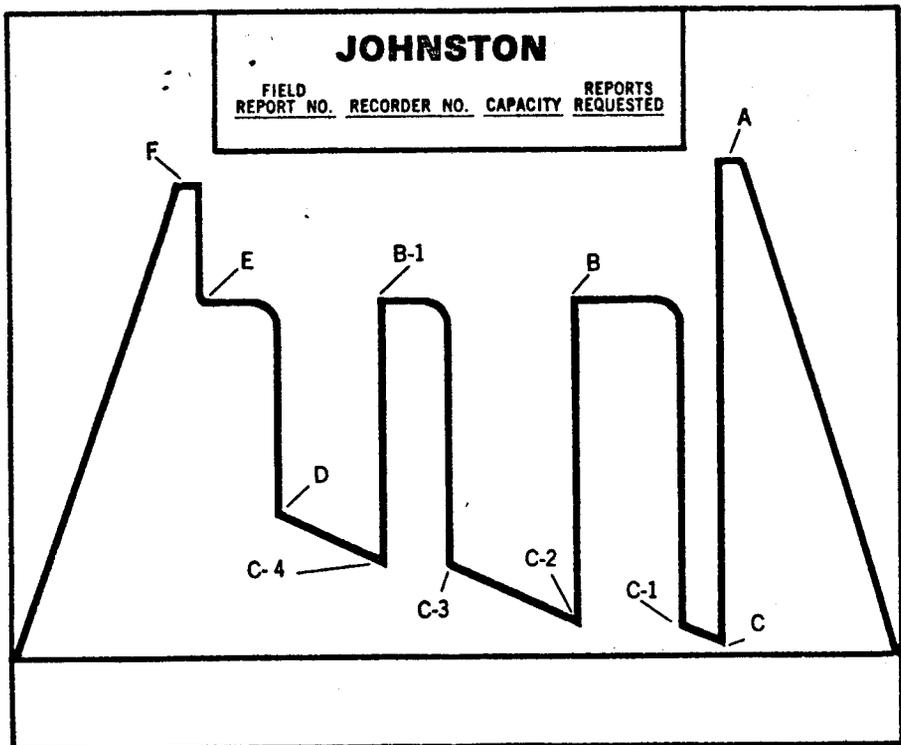
J-194

REPORTS REQUESTED

5+



# GUIDE TO IDENTIFICATION OF DRILL STEM TEST PRESSURE CHARTS



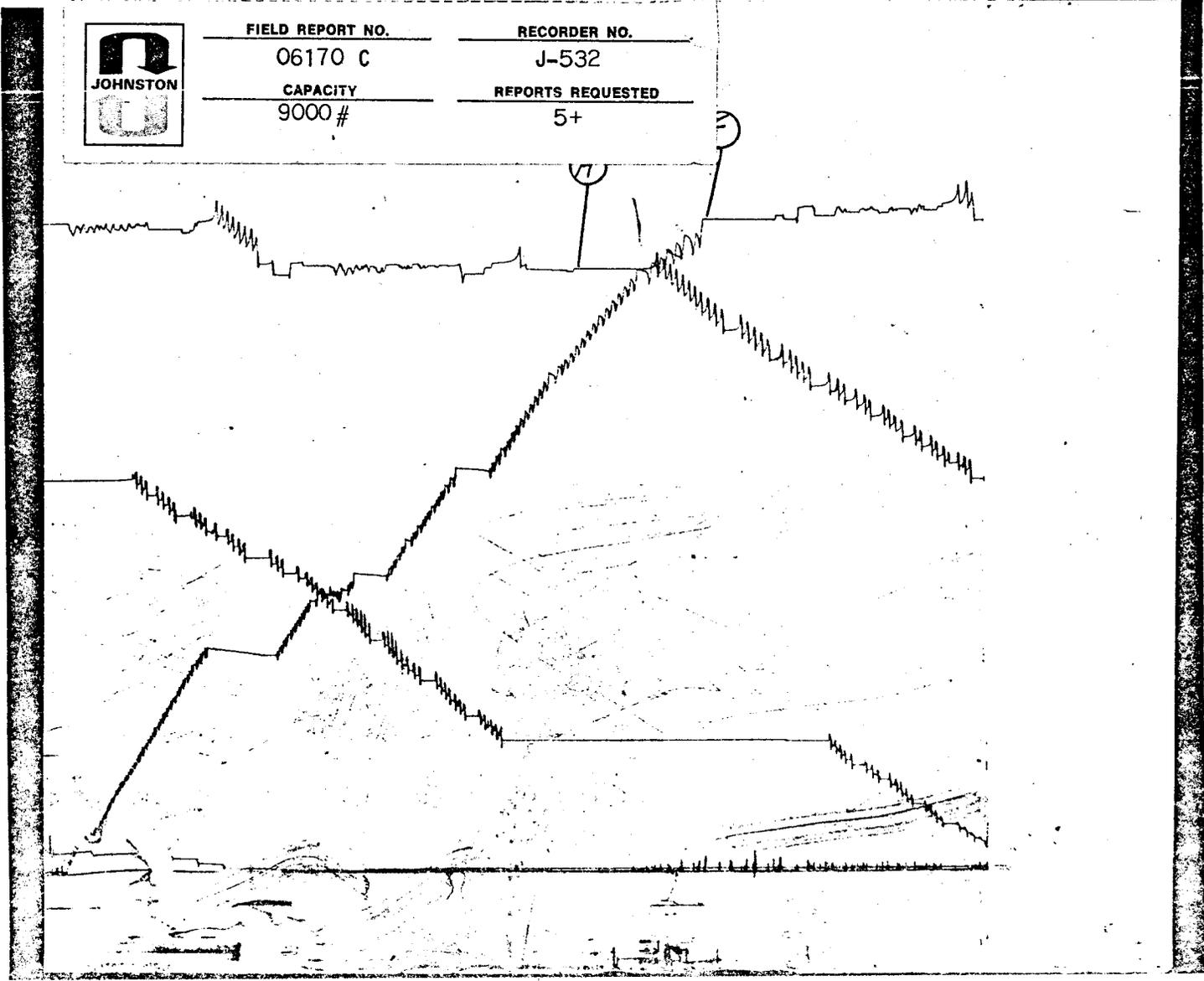
- A. Initial Hyd. Mud
- B. Initial Shut-in
- C. Initial Flow
- D. Final Flow
- E. Final Shut-in
- F. Final Hyd. Mud

*The following points are either fluctuating pressures or points indicating other packer settings, (testing different zones).*

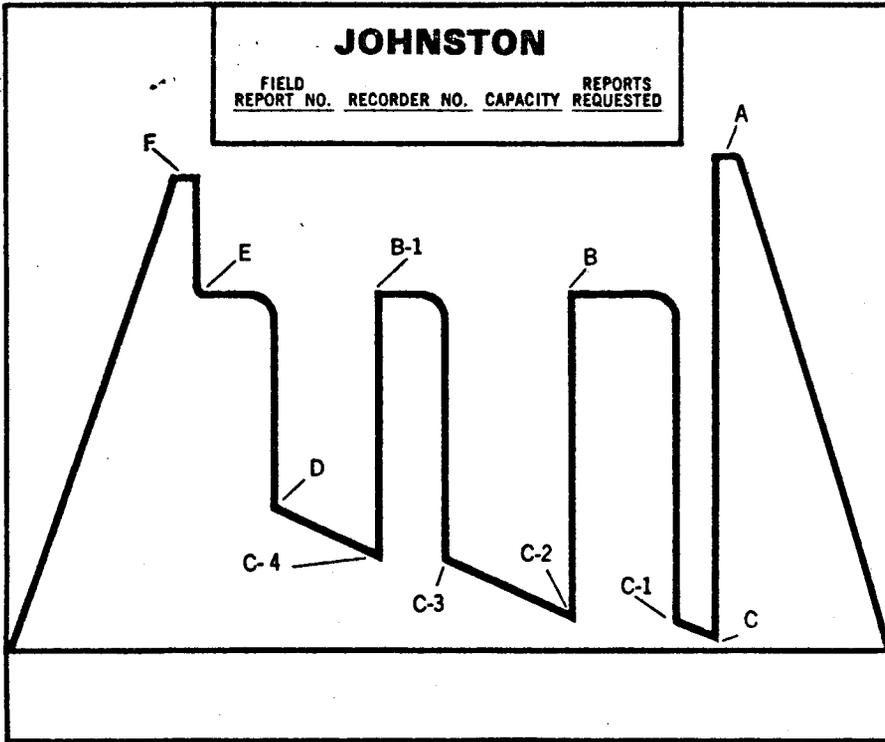
- A-1, A-2, A-3, etc. Initial Hyd. Pressures
- B-1, B-2, B-3, etc. Subsequent Shut-in Pressures
- C-1, C-2, C-3, etc. Flowing Pressures
- D-1, D-2, D-3, etc. Subsequent Final Flow Pressures
- E-1, E-2, E-3, etc. Subsequent Final Shut-in Pressures
- F-1, F-2, F-3, etc. Final Hyd. Mud Pressures
- Z — Special pressure points such as pumping pressure recorded for formation breakdown.



FIELD REPORT NO.	RECORDER NO.
06170 C	J-532
CAPACITY	REPORTS REQUESTED
9000 #	5+



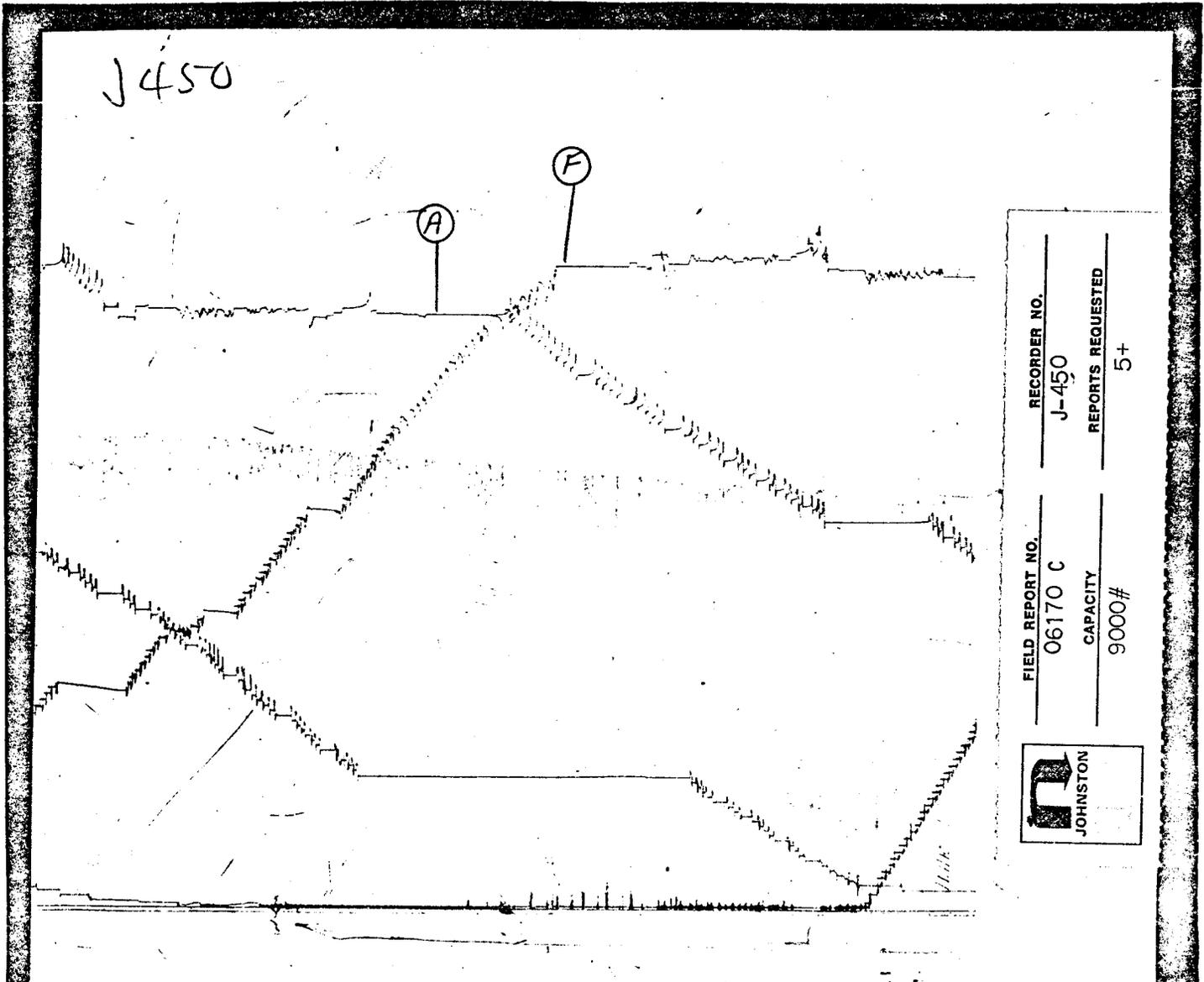
# GUIDE TO IDENTIFICATION OF DRILL STEM TEST PRESSURE CHARTS

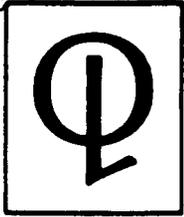


- A. Initial Hyd. Mud
- B. Initial Shut-in
- C. Initial Flow
- D. Final Flow
- E. Final Shut-in
- F. Final Hyd. Mud

The following points are either fluctuating pressures or points indicating other packer settings, (testing different zones).

- A-1, A-2, A-3, etc. Initial Hyd. Pressures
- B-1, B-2, B-3, etc. Subsequent Shut-in Pressures
- C-1, C-2, C-3, etc. Flowing Pressures
- D-1, D-2, D-3, etc. Subsequent Final Flow Pressures
- E-1, E-2, E-3, etc. Subsequent Final Shut-in Pressures
- F-1, F-2, F-3, etc. Final Hyd. Mud Pressures
- Z — Special pressure points such as pumping pressure recorded for formation breakdown.





# AMERICAN QUASAR PETROLEUM CO. OF NEW MEXICO

707 UNITED BANK TOWER, 1700 BROADWAY, DENVER, COLORADO 80290, U.S.A.  
TELEPHONE (303) 861-8437

March 25, 1982

**RECEIVED**  
MAR 29 1982

State of Utah  
Natural Resources and Energy  
Division of Oil, Gas and Mining  
4241 State Office Building  
Salt Lake City, Utah 84114

**DIVISION OF  
OIL, GAS & MINING**

Attention: Mr. Cleon Feight, Director

Subject: Recompletion of Newton Sheep #1  
Section 4, T2N-R7E, Summit County, Utah

Dear Mr. Feight:

As brought to our attention by your staff, American Quasar neglected to submit the proper Notice of Intent for the subject recompletion. We will make the necessary procedural changes within our organization to assure that this oversight does not occur again.

Please find attached Notice of Intent to Recomplete, and subsequent Recompletion Report.

Very truly yours,

James T. Brown  
Division Production Manager

JTB:sb  
attachments



STATE OF UTAH  
NATURAL RESOURCES & ENERGY  
Oil, Gas & Mining

Scott M. Matheson, Governor  
Temple A. Reynolds, Executive Director  
Cleon B. Feight, Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

September 20, 1982

American Quasar Petroleum, Inc.  
Att: Jim Brown  
707 United Bank Tower  
1700 Broadway  
Denver, Colorado 80290

Re: Well No. Newton Sheep Co. #1  
Sec. 4, T. 2N, R. 7E.  
Summit County, Utah

Gentlemen:

This letter is to advise you that the Well Completion or Recompletion Report and Log for the above mentioned well is due and has not been filed with this office as required by our rules and regulations.

This office received a Recompletion report for the Kelvin formation zone only and as of our understanding this well was also completed in the Stump formation. I would appreciate it if you could send the Recompletion for the Stump formation to me.

Please complete the enclosed Form OGC-3, in duplicate, and forward them to this office as soon as possible.

Thank you for your cooperation relative to the above.

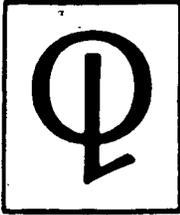
Very truly yours,

DIVISION OF OIL, GAS AND MINING

A handwritten signature in cursive script that reads "Cari Furse".

Cari Furse  
Clerk Typist

CF/cf  
Enclosure



**AMERICAN QUASAR PETROLEUM CO.**  
OF NEW MEXICO

707 UNITED BANK TOWER, 1700 BROADWAY, DENVER, COLORADO 80290, U.S.A.  
TELEPHONE (303) 861-8437

September 22, 1982

State of Utah  
Natural Resources & Energy  
Oil, Gas & Mining  
4241 State Office Building  
Salt Lake City, Utah 84114

Attention: Cari Furse

Subject: Newton Sheep #1  
Sec. 4, T2N-R7E, Summit County, Utah

Dear Cari:

Attached are the requested forms, which have been sent previously to the Division of Oil, Gas and Mining, on the dates shown.

Very truly yours,

James T. Brown  
Division Production Manager

JTB:sb  
attachments

**RECEIVED**  
OCT 04 1982

**DIVISION OF  
OIL, GAS & MINING**

SUBMIT IN DUPLICATE\*  
(See other instructions on reverse side)

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

5. LEASE DESIGNATION AND SERIAL NO.

U25426 (Acquired & FEE)  
6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Newton Sheep Company

9. WELL NO.

1  
10. FIELD AND POOL, OR WILDCAT

Pineview-Kelvin

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA

Sec. 4, T2N-R7E

12. COUNTY OR PARISH  
Summit

18. STATE  
Utah

WELL COMPLETION OR RECOMPLETION REPORT AND LOG \*

1a. TYPE OF WELL: OIL WELL  GAS WELL  DRY  Other

b. TYPE OF COMPLETION: NEW WELL  WORK OVER  DEEP-EN  PLUG BACK  DIFF. RESVR.

2. NAME OF OPERATOR  
American Quasar Petroleum Co.

3. ADDRESS OF OPERATOR  
707 United Bank Tower 1700 Kipling Denver, CO 80290

4. LOCATION OF WELL (Report location clearly and in accordance with any State regulations)  
At surface 1780' FSL, 1220' FEL, (NESE)  
At top prod. interval reported below  
At total depth

14. PERMIT NO. 43-043-30006 DATE ISSUED 04/1982

15. DATE SPUDDED \*2/25/82 16. DATE T.D. REACHED -- 17. DATE COMPL. (Ready to prod.) 3/15/82 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\* 6555 GR 19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD 14,500 21. PLUG, BACK T.D., MD & TVD 6034 22. IF MULTIPLE COMPL., HOW MANY\* 23. INTERVALS DRILLED BY 24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\* 4366-4380 Kelvin 25. WAS DIRECTIONAL SURVEY MADE 26. TYPE ELECTRIC AND OTHER LOGS RUN 27. WAS WELL CORRED

29. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
Same as previously reported.					

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 7/8"	4305	4305

31. PERFORATION RECORD (Interval, size and number)

6159-66 } 6142-48 }	4 SPF, 4" casing gun
4366-4380 ✓	2 SPF, 4" casing gun

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5997-6012	Sqzd w/100 sx G, 50 sx G w/.2% Halad 24. Displace w/46 BW.
6159-66, 6142-48 (See attached)	Sqzd w/125 sx G w/.2% D19. Displace w/50 BW.

33. PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	WELL STATUS (Producing or shut-in)
3/11/82	Flowing	Producing

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
3/11/82	24	18/64"	→	403	292	8	725.1

FLOW. TUBING PRSS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
390	0	→				

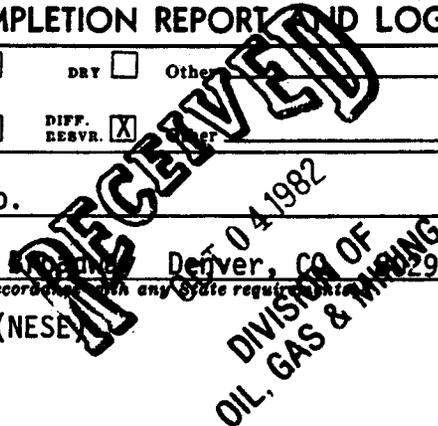
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)  
Sale - Mountain Fuel Supply

TEST WITNESSED BY  
Paul Smith

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED James T. Brown TITLE Division Production Manager DATE 3/25/82



STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

5. LEASE DESIGNATION AND SERIAL NO.  
**FEE**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
**Newton Sheep**

9. WELL NO.  
**1**

10. FIELD AND POOL, OR WILDCAT  
**Pineview Field**

11. SEC., T., R., M., OR BLM. AND SURVEY OR AREA  
**Sec. 4, T2N-R7E**

12. COUNTY OR PARISH  
**Summit**

13. STATE  
**Utah**

**SUNDRY NOTICES AND REPORTS ON WELLS**

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL  GAS WELL  OTHER

2. NAME OF OPERATOR  
**American Quasar Petroleum Co.**

3. ADDRESS OF OPERATOR  
**1700 Broadway #707 Denver, Colorado 80290**

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\* See also space 17 below.)  
At surface **1780' FSL, 1220' FEL (NE SE)**

14. PERMIT NO.  
**43-043-30006**

15. ELEVATIONS (Show whether DF, RT, CR, etc.)  
**6555' KB**

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input checked="" type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) _____	(Other) _____
(Other) _____		(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

See attached prognosis and wellbore sketch

Plug and abandon well as follows:

1. Squeeze Kelvin perms 4366-80' w/100 sx cement.
2. Set 100' plug 600-700' w/40 sx cement.
3. Cut wellhead & spot 10 sx sfc plug (no casing will be pulled).
4. Install dry hole marker.

APPROVED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING  
DATE: 4/16/84  
BY: [Signature]

18. I hereby certify that the foregoing is true and correct  
SIGNED [Signature] TITLE Division Production Manager DATE 4/16/84

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

NEWTON SHEEP #1

PLUGGING AND ABANDONMENT

NESE SEC. 4, T2N-R7E

SUMMIT COUNTY, UT

1. MIRU service unit. Kill well as necessary with produced water. ND tee & NU BOP's.
2. Release tubing anchor & TOH.
3. RU WIL Run gauge ring/JB to  $\pm 4250'$ . Set cement retnr @4200'. RD WL.
4. TIH w/stinger. Sting into retnr. Establish pump-in rate. Squeeze Kelvin perfs @4366-80' w/100 sx cement. Unsting, pull 6 std & reverse. TOH to 700'. Spot cement plug ( $\pm 40$  sx) from 600-700'. Displace & TOH.
5. Cut wellhead, spot 10 sx surface plug & install dryhole marker.

APPROVED

*John D. Dolan*

DATE

*April 17, 1984*

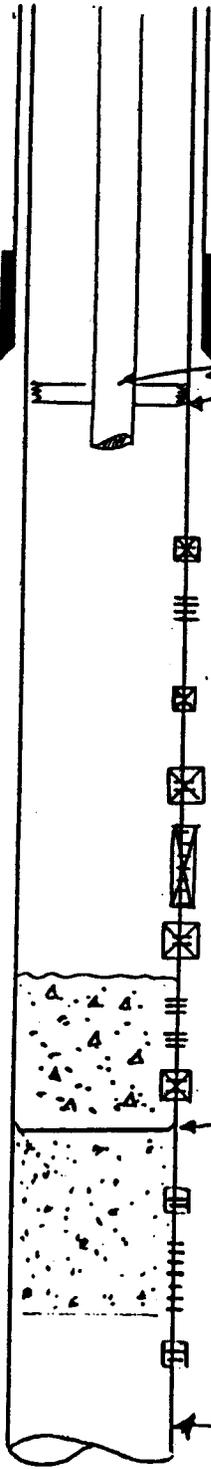
# BAKER OIL TOOLS, INC.

SERVING THE WORLD

DATE 2/16/84 WELL NO. #1 LEASE NEWTON SHEEP FIELD PINEVIEW

LOCATION: 1780 FSL, 1220 FEL NE 1/4 SE 1/4 SEC. 4  
T2N R7E SUMMIT Co. UTAH

KB 6555 GL 6536 TD. 14,500



13 3/8" 54.5# K-55 SURF CAS @ 1708'

130 JTS 2 7/8" 6.5# N-80 BCL  
TUBING ANCHOR AT 4305' (KB)

4290' SQ PERFS (100 SX)

4366'-80' (ESP) KELVIN

4425' SQ PERFS (100 SX)

502 PERFS 5982'

5995-6012 - STUMP } SQZ'D 100 SX

6078 - SQZ. PERFS

6142-48 } STUMP  
6159-66 } 4 SPF } SQZ'D w/ 125 SX

SQZ PERFS 6200' w/ 100 SX  
CMT @ 6454

6482 - SQZ PERFS

6495'-6518' WET, SQZ'D w/ 150 SX

6540 SQZ PERFS

9 5/8" 40 s 43.5# S-95 C/N-80 @ 14,500'

TD. 14,500'

SEE PAGE 2 FOR LOWER COMPLETIONS



# BAKER OIL TOOLS, INC.

SERVING THE WORLD

DATE 3/13/79 WELL NO. #1 LEASE NEWTON SHEEP FIELD PINEVIEW

13 3/8" 51.5# K-55 SURF CSB. @ 1708'

COMPLETION TWIN CREEK & BELOW

CMT TOP @ 8879' - ZONG SQZD W/ 300SK

FISH

EKR. CMT. RETAINER @ 9323 TBG @ 9254

9190-92 SQZ PERFS (NOT SQUEEZED)

WATTON CANYON

9280-9340

9380-82 SQZ PERFS, SQZD W/ 300 SK

RICH 9432-9472

9665-67 SQZ PERFS (NOT SQUEEZED)

9830-9860

9860-9880

BAKER MODEL N @ 9902 CAPPED W/ 2SK.

9908-9918

MODEL D @ 9916' SQZD W/ 100 SK.

9928-31 (12 HOLES)

9931-36 (11 HOLES)

HONCO SV CEMENT RETAINER @ 10,000

10,024-36 (48 HOLES) SQUEEZED W/ 100 SK.

9 5/8" 40 & 43.5# S-95 & CYN-80 @ 10,989

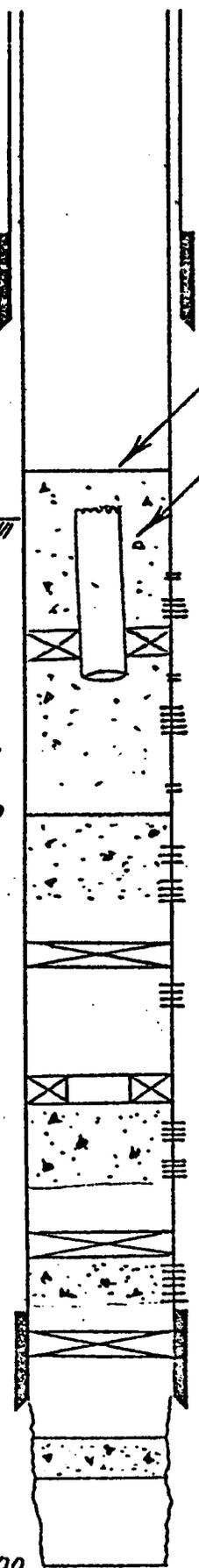
80 SK. CMT. PLUG @ 11,325'

SALT TOP  
8320'  
↓  
8730'

CMT TOP  
@ 8920'

POOR  
CMT BOND

TD 14,500



STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

**SUNDRY NOTICES AND REPORTS ON WELLS**

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. Fee
2. NAME OF OPERATOR American Quasar Petroleum Co.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR 1700 Broadway #707, Denver, CO 80290		7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface  1780' FSL, 1220' FEL (NE SE)		8. FARM OR LEASE NAME Newton Sheep
14. PERMIT NO. 43-043-30006	15. ELEVATIONS (Show whether OF, ST, OR, etc.) 6555' KB	9. WELL NO. 1
		10. FIELD AND POOL, OR WILDCAT Pineview-Kelvin
		11. SEC., T., R., M., OR BLK. AND SURVEY OR ABBA Sec 4, T2N-R7E
		12. COUNTY OR PARISH Summit
		13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <u>Well status</u>	<input checked="" type="checkbox"/>
(Other) <input type="checkbox"/>		(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Perfs 4366-80'  
4-27-83 well SI  
Plan to P&A  
Approval received from State of Utah 4-29-84.

**RECEIVED**  
AUG 27 1984  
DIVISION OF OIL  
GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED John D. DeLa TITLE Div. Prod. Mgr. DATE 8/21/84

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL [X] GAS WELL [ ] OTHER [ ]
2. NAME OF OPERATOR American Quasar Petroleum Co.
3. ADDRESS OF OPERATOR 1700 Broadway #707, Denver, CO 80290
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) See also space 17 below.) At surface 1780' FSL, 1220' FEL (NE SE)
14. PERMIT NO. 43-043-30006
15. ELEVATIONS (Show whether SP, ST, GR, etc.) 6555' KB
12. COUNTY OR PARISH Summit
13. STATE Utah

RECEIVED

SEP 10 1984

DIVISION OF OIL GAS & MINING

5. LEASE DESIGNATION AND SERIAL NO. Fee
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
7. UNIT AGREEMENT NAME
8. FARM OR LEASE NAME Newton Sheep
9. WELL NO. 1
10. FIELD AND POOL, OR WILDCAT Pineview - Kelvin
11. SEC., T., R., M., OR BLM. AND SURVEY OR AREA Sec 4, T2N-R7E
12. COUNTY OR PARISH Summit
13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data
NOTICE OF INTENTION TO: TEST WATER SHUT-OFF [ ], FRACTURE TREAT [ ], SHOOT OR ACIDIZE [ ], REPAIR WELL [ ], (Other) [ ]
PULL OR ALTER CASING [ ], MULTIPLE COMPLETE [ ], ABANDON\* [ ], CHANGE PLANS [ ]
SUBSEQUENT REPORT OF: WATER SHUT-OFF [ ], FRACTURE TREATMENT [ ], SHOOTING OR ACIDIZING [ ], (Other) [ ]
REPAIRING WELL [ ], ALTERING CASING [ ], ABANDONMENT\* [X]

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Sqzd Kelvin perfs 4366-80' w/100 sx cmt. Set the following cmt plugs: 40 sx 600-700' 10 sx surface No casing was pulled. Weld plate & dry hole marker. Well P&A.

APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING DATE: 9/6/84 BY: [Signature]

18. I hereby certify that the foregoing is true and correct SIGNED: [Signature] TITLE: Div. Prod. Mgr. DATE: 9-6-84 (This space for Federal or State office use)

APPROVED BY: \_\_\_\_\_ TITLE: \_\_\_\_\_ DATE: \_\_\_\_\_ CONDITIONS OF APPROVAL, IF ANY: \_\_\_\_\_

\*\*\*\*\*  
\*  
\*  
\*  
\*\*\*\*\*  
-----SCHLUMBERGER-----  
\*\*\*\*\*

SCHLUMBERGER DIRECTIONAL SURVEY

43-043-30006

CHAMPLIN PETROLEUM COMPANY

# 1 NEWTON SHEEP

PINEVIEW FIELD

SUMMIT COUNTY, UTAH

RUN NO. 1 2539 - 11330

DECEMBER 17, 1976

START OF SURVEY IS CASING AT 2539 FT.

TANGENTIAL METHOD

REFERENCE JOB 2511.



*****						
* DEPTH	* DEVIATION	* AZIMUTH	* TRUE	* CO-ORDINATES	* COURSE	
* FEET	* DEGREES	* DEGREES	* VERTICAL	* + NORTH	* + EAST	* LENGTH
			* FEET	* - SOUTH	* - WEST	* FEET
*****						
* 2990.0	* 1.5	* 1.0	* 2990.0	* 1.4	* 4.3	* 4.5
* 3000.0	* 1.5	* 355.0	* 2999.9	* 1.7	* 4.2	* 4.6
* 3010.0	* 1.5	* 11.0	* 3009.9	* 1.9	* 4.3	* 4.7
* 3020.0	* 1.4	* 17.0	* 3019.9	* 2.1	* 4.4	* 4.9
* 3030.0	* 1.3	* 8.0	* 3029.9	* 2.4	* 4.4	* 5.0
* 3040.0	* 1.1	* 10.0	* 3039.9	* 2.6	* 4.4	* 5.1
* 3050.0	* 1.0	* 46.0	* 3049.9	* 2.7	* 4.6	* 5.3
* 3060.0	* 1.1	* 31.0	* 3059.9	* 2.8	* 4.7	* 5.5
* 3070.0	* 1.2	* 9.0	* 3069.9	* 3.1	* 4.7	* 5.6
* 3080.0	* 1.4	* 12.0	* 3079.9	* 3.3	* 4.7	* 5.8
* 3090.0	* 1.5	* 17.0	* 3089.9	* 3.5	* 4.8	* 6.0
* 3100.0	* 1.6	* 7.0	* 3099.9	* 3.8	* 4.8	* 6.2
* 3110.0	* 1.6	* 13.0	* 3109.9	* 4.1	* 4.9	* 6.4
* 3120.0	* 1.7	* 11.0	* 3119.9	* 4.4	* 5.0	* 6.6
* 3130.0	* 1.8	* 13.0	* 3129.9	* 4.7	* 5.0	* 6.9
* 3140.0	* 1.8	* 14.0	* 3139.9	* 5.0	* 5.1	* 7.1
* 3150.0	* 1.9	* 14.0	* 3149.9	* 5.3	* 5.2	* 7.4
* 3160.0	* 1.9	* 15.0	* 3159.9	* 5.6	* 5.3	* 7.7
* 3170.0	* 2.0	* 13.0	* 3169.9	* 6.0	* 5.4	* 8.0
* 3180.0	* 2.0	* 15.0	* 3179.9	* 6.3	* 5.4	* 8.3
* 3190.0	* 2.0	* 12.0	* 3189.9	* 6.7	* 5.5	* 8.6
* 3200.0	* 2.0	* 23.0	* 3199.9	* 7.0	* 5.7	* 9.0
* 3210.0	* 2.0	* 16.0	* 3209.9	* 7.3	* 5.8	* 9.3
* 3220.0	* 2.0	* 17.0	* 3219.9	* 7.6	* 5.9	* 9.6
* 3230.0	* 1.9	* 16.0	* 3229.8	* 8.0	* 5.9	* 9.9
* 3240.0	* 1.9	* 18.0	* 3239.8	* 8.3	* 6.0	* 10.3
* 3250.0	* 1.9	* 15.0	* 3249.8	* 8.6	* 6.1	* 10.6
* 3260.0	* 1.9	* 14.0	* 3259.8	* 8.9	* 6.2	* 10.9
* 3270.0	* 1.9	* 17.0	* 3269.8	* 9.2	* 6.3	* 11.2
* 3280.0	* 1.9	* 20.0	* 3279.8	* 9.6	* 6.4	* 11.5
* 3290.0	* 1.8	* 17.0	* 3289.8	* 9.9	* 6.5	* 11.8
* 3300.0	* 1.9	* 19.0	* 3299.8	* 10.2	* 6.6	* 12.1
* 3310.0	* 2.0	* 13.0	* 3309.8	* 10.5	* 6.7	* 12.5
* 3320.0	* 2.0	* 19.0	* 3319.8	* 10.8	* 6.8	* 12.8
* 3330.0	* 1.9	* 16.0	* 3329.8	* 11.2	* 6.9	* 13.1
* 3340.0	* 2.1	* 19.0	* 3339.8	* 11.5	* 7.0	* 13.5
* 3350.0	* 2.0	* 19.0	* 3349.8	* 11.8	* 7.1	* 13.8
* 3360.0	* 2.1	* 19.0	* 3359.8	* 12.2	* 7.3	* 14.2
* 3370.0	* 2.1	* 22.0	* 3369.8	* 12.5	* 7.4	* 14.5
* 3380.0	* 2.0	* 23.0	* 3379.8	* 12.8	* 7.5	* 14.9
* 3390.0	* 1.9	* 20.0	* 3389.8	* 13.2	* 7.6	* 15.2
* 3400.0	* 2.0	* 21.0	* 3399.7	* 13.5	* 7.8	* 15.6
* 3410.0	* 2.2	* 20.0	* 3409.7	* 13.8	* 7.9	* 15.9
* 3420.0	* 2.2	* 20.0	* 3419.7	* 14.2	* 8.0	* 16.3
* 3430.0	* 2.2	* 21.0	* 3429.7	* 14.6	* 8.2	* 16.7
* 3440.0	* 2.2	* 23.0	* 3439.7	* 14.9	* 8.3	* 17.1
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 \* \* \* \* \* TRUE \* CO-ORDINATES \* \* \* \* \*  
 \* DEPTH \* DEVIATION \* AZIMUTH \* VERTICAL, \* \* \* \* \* COURSE \* \* \* \* \*  
 \* FEET \* DEGREES \* DEGREES \* DEPTH \* + NORTH \* + EAST \* LENGTH \* \* \* \* \*  
 \* \* \* \* \* \* \* \* \* \* FEET \* - SOUTH \* - WEST \* FEET \* \* \* \* \*

* 3450.0	* 2.2	* 22.0	* 3449.7	* 15.3	* 8.5	* 17.5
* 3460.0	* 2.1	* 20.0	* 3459.7	* 15.6	* 8.6	* 17.8
* 3470.0	* 2.2	* 23.0	* 3469.7	* 16.0	* 8.7	* 18.2
* 3480.0	* 2.2	* 21.0	* 3479.7	* 16.3	* 8.9	* 18.6
* 3490.0	* 2.2	* 22.0	* 3489.7	* 16.7	* 9.0	* 19.0
* 3500.0	* 2.2	* 21.0	* 3499.7	* 17.0	* 9.2	* 19.3
* 3510.0	* 2.2	* 23.0	* 3509.7	* 17.4	* 9.3	* 19.7
* 3520.0	* 2.2	* 20.0	* 3519.7	* 17.7	* 9.4	* 20.1
* 3530.0	* 2.2	* 18.0	* 3529.7	* 18.1	* 9.5	* 20.5
* 3540.0	* 2.3	* 22.0	* 3539.6	* 18.5	* 9.7	* 20.9
* 3550.0	* 2.3	* 23.0	* 3549.6	* 18.9	* 9.9	* 21.3
* 3560.0	* 2.3	* 20.0	* 3559.6	* 19.2	* 10.0	* 21.7
* 3570.0	* 2.4	* 20.0	* 3569.6	* 19.6	* 10.1	* 22.1
* 3580.0	* 2.5	* 19.0	* 3579.6	* 20.0	* 10.3	* 22.5
* 3590.0	* 2.5	* 18.0	* 3589.6	* 20.5	* 10.4	* 23.0
* 3600.0	* 2.5	* 20.0	* 3599.6	* 20.9	* 10.6	* 23.4
* 3610.0	* 2.5	* 19.0	* 3609.6	* 21.3	* 10.7	* 23.8
* 3620.0	* 2.6	* 24.0	* 3619.6	* 21.7	* 10.9	* 24.3
* 3630.0	* 2.6	* 23.0	* 3629.6	* 22.1	* 11.1	* 24.7
* 3640.0	* 2.6	* 21.0	* 3639.6	* 22.5	* 11.2	* 25.2
* 3650.0	* 2.6	* 22.0	* 3649.5	* 23.0	* 11.4	* 25.6
* 3660.0	* 2.6	* 23.0	* 3659.5	* 23.4	* 11.6	* 26.1
* 3670.0	* 2.8	* 20.0	* 3669.5	* 23.8	* 11.8	* 26.6
* 3680.0	* 2.9	* 25.0	* 3679.5	* 24.3	* 12.0	* 27.1
* 3690.0	* 2.7	* 23.0	* 3689.5	* 24.7	* 12.2	* 27.5
* 3700.0	* 2.6	* 23.0	* 3699.5	* 25.1	* 12.3	* 28.0
* 3710.0	* 2.8	* 22.0	* 3709.5	* 25.6	* 12.5	* 28.5
* 3720.0	* 2.8	* 24.0	* 3719.5	* 26.0	* 12.7	* 29.0
* 3730.0	* 2.5	* 21.0	* 3729.5	* 26.4	* 12.9	* 29.4
* 3740.0	* 2.5	* 18.0	* 3739.4	* 26.9	* 13.0	* 29.8
* 3750.0	* 2.5	* 16.0	* 3749.4	* 27.3	* 13.1	* 30.3
* 3760.0	* 2.5	* 28.0	* 3759.4	* 27.7	* 13.3	* 30.7
* 3770.0	* 2.5	* 29.0	* 3769.4	* 28.0	* 13.5	* 31.1
* 3780.0	* 2.6	* 29.0	* 3779.4	* 28.4	* 13.8	* 31.6
* 3790.0	* 2.6	* 31.0	* 3789.4	* 28.8	* 14.0	* 32.0
* 3800.0	* 2.6	* 30.0	* 3799.4	* 29.2	* 14.2	* 32.5
* 3810.0	* 2.6	* 31.0	* 3809.4	* 29.6	* 14.5	* 33.0
* 3820.0	* 2.6	* 29.0	* 3819.4	* 30.0	* 14.7	* 33.4
* 3830.0	* 2.7	* 28.0	* 3829.4	* 30.4	* 14.9	* 33.9
* 3840.0	* 2.6	* 27.0	* 3839.3	* 30.8	* 15.1	* 34.3
* 3850.0	* 2.7	* 26.0	* 3849.3	* 31.1	* 15.3	* 34.8
* 3860.0	* 2.6	* 27.0	* 3859.3	* 31.7	* 15.5	* 35.3
* 3870.0	* 2.7	* 31.0	* 3869.3	* 32.1	* 15.8	* 35.7
* 3880.0	* 2.7	* 25.0	* 3879.3	* 32.5	* 16.0	* 36.2
* 3890.0	* 2.6	* 29.0	* 3889.3	* 32.9	* 16.2	* 36.6
* 3900.0	* 3.0	* 27.0	* 3899.3	* 33.4	* 16.4	* 37.2

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* DEPTH	* DEVIATION	* AZIMUTH	* TRUE VERTICAL	* CO-ORDINATES		* COURSE
* FEET	* DEGREES	* DEGREES	* DEPTH	* + NORTH	* + EAST	* LENGTH
* *	* *	* *	* FEET	* - SOUTH	* - WEST	* FEET
*****						
* 3910.0	* 2.9	* 33.0	* 3909.3	* 33.8	* 16.7	* 37.7
* 3920.0	* 2.8	* 26.0	* 3919.2	* 34.2	* 16.9	* 38.2
* 3930.0	* 2.7	* 27.0	* 3929.2	* 34.6	* 17.1	* 38.6
* 3940.0	* 2.8	* 26.0	* 3939.2	* 35.1	* 17.3	* 39.1
* 3950.0	* 2.8	* 26.0	* 3949.2	* 35.5	* 17.5	* 39.6
* 3960.0	* 3.0	* 29.0	* 3959.2	* 36.0	* 17.8	* 40.1
* 3970.0	* 2.8	* 23.0	* 3969.2	* 36.4	* 18.0	* 40.6
* 3980.0	* 2.8	* 29.0	* 3979.2	* 36.8	* 18.2	* 41.1
* 3990.0	* 2.8	* 25.0	* 3989.2	* 37.3	* 18.4	* 41.6
* 4000.0	* 3.0	* 30.0	* 3999.2	* 37.7	* 18.7	* 42.1
* 4010.0	* 3.2	* 23.0	* 4009.1	* 38.3	* 18.9	* 42.7
* 4020.0	* 3.0	* 30.0	* 4019.1	* 38.7	* 19.2	* 43.2
* 4030.0	* 3.0	* 30.0	* 4029.1	* 39.2	* 19.4	* 43.7
* 4040.0	* 2.9	* 25.0	* 4039.1	* 39.6	* 19.6	* 44.2
* 4050.0	* 2.9	* 25.0	* 4049.1	* 40.1	* 19.9	* 44.7
* 4060.0	* 3.4	* 25.0	* 4059.1	* 40.6	* 20.1	* 45.3
* 4070.0	* 3.0	* 26.0	* 4069.1	* 41.1	* 20.3	* 45.8
* 4080.0	* 3.0	* 26.0	* 4079.0	* 41.6	* 20.6	* 46.4
* 4090.0	* 3.6	* 30.0	* 4089.0	* 42.1	* 20.9	* 47.0
* 4100.0	* 3.0	* 28.0	* 4099.0	* 42.6	* 21.1	* 47.5
* 4110.0	* 3.2	* 31.0	* 4109.0	* 43.0	* 21.4	* 48.1
* 4120.0	* 3.2	* 29.0	* 4119.0	* 43.5	* 21.7	* 48.6
* 4130.0	* 3.0	* 27.0	* 4129.0	* 44.0	* 21.9	* 49.2
* 4140.0	* 3.0	* 23.0	* 4138.9	* 44.5	* 22.1	* 49.7
* 4150.0	* 3.1	* 25.0	* 4148.9	* 45.0	* 22.4	* 50.2
* 4160.0	* 3.2	* 26.0	* 4158.9	* 45.5	* 22.6	* 50.8
* 4170.0	* 3.0	* 24.0	* 4168.9	* 45.9	* 22.8	* 51.3
* 4180.0	* 3.1	* 23.0	* 4178.9	* 46.4	* 23.0	* 51.8
* 4190.0	* 3.2	* 21.0	* 4188.9	* 47.0	* 23.2	* 52.4
* 4200.0	* 3.2	* 22.0	* 4198.9	* 47.5	* 23.5	* 53.0
* 4210.0	* 3.2	* 20.0	* 4208.8	* 48.0	* 23.6	* 53.5
* 4220.0	* 3.3	* 18.0	* 4218.8	* 48.5	* 23.8	* 54.1
* 4230.0	* 3.4	* 19.0	* 4228.8	* 49.1	* 24.0	* 54.7
* 4240.0	* 3.2	* 13.0	* 4238.8	* 49.7	* 24.1	* 55.2
* 4250.0	* 3.5	* 19.0	* 4248.8	* 50.2	* 24.3	* 55.8
* 4260.0	* 3.7	* 16.0	* 4258.8	* 50.9	* 24.5	* 56.5
* 4270.0	* 3.5	* 13.0	* 4268.7	* 51.4	* 24.7	* 57.0
* 4280.0	* 3.4	* 13.0	* 4278.7	* 52.0	* 24.8	* 57.6
* 4290.0	* 3.4	* 15.0	* 4288.7	* 52.6	* 24.9	* 58.2
* 4300.0	* 3.3	* 14.0	* 4298.7	* 53.2	* 25.1	* 58.8
* 4310.0	* 3.5	* 12.0	* 4308.7	* 53.8	* 25.2	* 59.4
* 4320.0	* 3.6	* 14.0	* 4318.6	* 54.4	* 25.4	* 60.0
* 4330.0	* 3.5	* 14.0	* 4328.6	* 55.0	* 25.5	* 60.6
* 4340.0	* 3.7	* 12.0	* 4338.6	* 55.6	* 25.6	* 61.2
* 4350.0	* 3.8	* 13.0	* 4348.6	* 56.2	* 25.8	* 61.9
* 4360.0	* 3.7	* 13.0	* 4358.6	* 56.9	* 25.9	* 62.5
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* DEPTH * * FEET *	* DEVIATION * * DEGREES *	* AZIMUTH * * DEGREES *	* TRUE * * VERTICAL * * DEPTH * * FEET *	* CO-ORDINATES * * + NORTH * * - SOUTH * * + EAST * * - WEST *	* COURSE * * LENGTH * * FEET *
* 4370.0 *	* 3.4 *	* 12.0 *	* 4368.5 *	* 57.4 * * 26.1 *	* 63.1 *
* 4380.0 *	* 3.6 *	* 13.0 *	* 4378.5 *	* 58.1 * * 26.2 *	* 63.7 *
* 4390.0 *	* 3.6 *	* 15.0 *	* 4388.5 *	* 58.7 * * 26.4 *	* 64.3 *
* 4400.0 *	* 3.5 *	* 12.0 *	* 4398.5 *	* 59.3 * * 26.5 *	* 64.9 *
* 4410.0 *	* 3.8 *	* 10.0 *	* 4408.5 *	* 59.9 * * 26.6 *	* 65.5 *
* 4420.0 *	* 3.7 *	* 11.0 *	* 4418.4 *	* 60.5 * * 26.7 *	* 66.1 *
* 4430.0 *	* 3.5 *	* 9.0 *	* 4428.4 *	* 61.1 * * 26.8 *	* 66.7 *
* 4440.0 *	* 3.4 *	* 12.0 *	* 4438.4 *	* 61.7 * * 26.9 *	* 67.3 *
* 4450.0 *	* 3.8 *	* 13.0 *	* 4448.4 *	* 62.3 * * 27.1 *	* 68.0 *
* 4460.0 *	* 3.7 *	* 10.0 *	* 4458.4 *	* 63.0 * * 27.2 *	* 68.6 *
* 4470.0 *	* 3.5 *	* 10.0 *	* 4468.3 *	* 63.6 * * 27.3 *	* 69.2 *
* 4480.0 *	* 3.6 *	* 13.0 *	* 4478.3 *	* 64.2 * * 27.4 *	* 69.8 *
* 4490.0 *	* 3.6 *	* 10.0 *	* 4488.3 *	* 64.8 * * 27.5 *	* 70.4 *
* 4500.0 *	* 3.4 *	* 13.0 *	* 4498.3 *	* 65.4 * * 27.7 *	* 71.0 *
* 4510.0 *	* 3.6 *	* 10.0 *	* 4508.3 *	* 66.0 * * 27.8 *	* 71.6 *
* 4520.0 *	* 3.6 *	* 12.0 *	* 4518.2 *	* 66.6 * * 27.9 *	* 72.2 *
* 4530.0 *	* 3.4 *	* 10.0 *	* 4528.2 *	* 67.2 * * 28.0 *	* 72.8 *
* 4540.0 *	* 3.6 *	* 10.0 *	* 4538.2 *	* 67.8 * * 28.1 *	* 73.4 *
* 4550.0 *	* 3.6 *	* 10.0 *	* 4548.2 *	* 68.4 * * 28.3 *	* 74.0 *
* 4560.0 *	* 3.4 *	* 11.0 *	* 4558.2 *	* 69.0 * * 28.4 *	* 74.6 *
* 4570.0 *	* 3.5 *	* 8.0 *	* 4568.2 *	* 69.6 * * 28.5 *	* 75.2 *
* 4580.0 *	* 3.6 *	* 10.0 *	* 4578.1 *	* 70.2 * * 28.6 *	* 75.8 *
* 4590.0 *	* 3.5 *	* 10.0 *	* 4588.1 *	* 70.8 * * 28.7 *	* 76.4 *
* 4600.0 *	* 3.4 *	* 9.0 *	* 4598.1 *	* 71.4 * * 28.8 *	* 77.0 *
* 4610.0 *	* 3.6 *	* 8.0 *	* 4608.1 *	* 72.0 * * 28.8 *	* 77.6 *
* 4620.0 *	* 3.7 *	* 8.0 *	* 4618.1 *	* 72.7 * * 28.9 *	* 78.2 *
* 4630.0 *	* 3.5 *	* 9.0 *	* 4628.0 *	* 73.3 * * 29.0 *	* 78.8 *
* 4640.0 *	* 3.6 *	* 7.0 *	* 4638.0 *	* 73.9 * * 29.1 *	* 79.5 *
* 4650.0 *	* 3.8 *	* 10.0 *	* 4648.0 *	* 74.6 * * 29.2 *	* 80.1 *
* 4660.0 *	* 3.2 *	* 11.0 *	* 4658.0 *	* 75.1 * * 29.3 *	* 80.7 *
* 4670.0 *	* 3.2 *	* 14.0 *	* 4668.0 *	* 75.7 * * 29.5 *	* 81.2 *
* 4680.0 *	* 3.2 *	* 12.0 *	* 4678.0 *	* 76.2 * * 29.6 *	* 81.8 *
* 4690.0 *	* 3.2 *	* 12.0 *	* 4687.9 *	* 76.8 * * 29.7 *	* 82.3 *
* 4700.0 *	* 3.1 *	* 19.0 *	* 4697.9 *	* 77.3 * * 29.9 *	* 82.9 *
* 4710.0 *	* 3.3 *	* 15.0 *	* 4707.9 *	* 77.8 * * 30.0 *	* 83.4 *
* 4720.0 *	* 3.3 *	* 12.0 *	* 4717.9 *	* 78.4 * * 30.1 *	* 84.0 *
* 4730.0 *	* 3.3 *	* 17.0 *	* 4727.9 *	* 78.9 * * 30.3 *	* 84.6 *
* 4740.0 *	* 3.4 *	* 17.0 *	* 4737.9 *	* 79.5 * * 30.5 *	* 85.2 *
* 4750.0 *	* 3.4 *	* 17.0 *	* 4747.8 *	* 80.1 * * 30.7 *	* 85.7 *
* 4760.0 *	* 3.4 *	* 21.0 *	* 4757.8 *	* 80.6 * * 30.9 *	* 86.3 *
* 4770.0 *	* 3.5 *	* 16.0 *	* 4767.8 *	* 81.2 * * 31.0 *	* 86.9 *
* 4780.0 *	* 3.1 *	* 22.0 *	* 4777.8 *	* 81.7 * * 31.2 *	* 87.5 *
* 4790.0 *	* 3.3 *	* 22.0 *	* 4787.8 *	* 82.3 * * 31.5 *	* 88.1 *
* 4800.0 *	* 3.3 *	* 19.0 *	* 4797.8 *	* 82.8 * * 31.6 *	* 88.6 *
* 4810.0 *	* 3.2 *	* 20.0 *	* 4807.7 *	* 83.3 * * 31.8 *	* 89.2 *
* 4820.0 *	* 3.0 *	* 21.0 *	* 4817.7 *	* 83.8 * * 32.0 *	* 89.7 *

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* DEPTH	* DEVIATION	* AZIMUTH	* TRUE VERTICAL	* CO-ORDINATES		* COURSE
* FEET	* DEGREES	* DEGREES	* DEPTH	* + NORTH	* + EAST	* LENGTH
* *	* *	* *	* FEET	* - SOUTH	* - WEST	* FEET
*****						
* 4830.0	* 3.2	* 21.0	* 4827.7	* 84.7	* 32.2	* 90.3
* 4840.0	* 3.0	* 16.0	* 4837.7	* 84.8	* 32.4	* 90.8
* 4850.0	* 3.0	* 16.0	* 4847.7	* 85.3	* 32.5	* 91.3
* 4860.0	* 3.0	* 12.0	* 4857.7	* 85.9	* 32.6	* 91.8
* 4870.0	* 3.0	* 17.0	* 4867.7	* 86.4	* 32.8	* 92.4
* 4880.0	* 3.1	* 13.0	* 4877.6	* 86.9	* 32.9	* 92.9
* 4890.0	* 3.1	* 13.0	* 4887.6	* 87.4	* 33.0	* 93.4
* 4900.0	* 3.1	* 8.0	* 4897.6	* 87.9	* 33.1	* 94.0
* 4910.0	* 3.1	* 5.0	* 4907.6	* 88.5	* 33.1	* 94.5
* 4920.0	* 3.1	* 14.0	* 4917.6	* 89.0	* 33.3	* 95.0
* 4930.0	* 3.1	* 16.0	* 4927.6	* 89.5	* 33.4	* 95.6
* 4940.0	* 3.1	* 9.0	* 4937.5	* 90.1	* 33.5	* 96.1
* 4950.0	* 3.2	* 10.0	* 4947.5	* 90.6	* 33.6	* 96.6
* 4960.0	* 3.2	* 8.0	* 4957.5	* 91.2	* 33.7	* 97.2
* 4970.0	* 3.2	* 10.0	* 4967.5	* 91.7	* 33.8	* 97.7
* 4980.0	* 3.2	* 11.0	* 4977.5	* 92.3	* 33.9	* 98.3
* 4990.0	* 3.2	* 12.0	* 4987.5	* 92.8	* 34.0	* 98.8
* 5000.0	* 3.1	* 10.0	* 4997.5	* 93.3	* 34.1	* 99.4
* 5010.0	* 3.1	* 9.0	* 5007.4	* 93.9	* 34.2	* 99.9
* 5020.0	* 3.1	* 12.0	* 5017.4	* 94.4	* 34.3	* 100.4
* 5030.0	* 3.1	* 13.0	* 5027.4	* 94.9	* 34.4	* 101.0
* 5040.0	* 3.0	* 7.0	* 5037.4	* 95.4	* 34.5	* 101.5
* 5050.0	* 3.0	* 12.0	* 5047.4	* 96.0	* 34.6	* 102.0
* 5060.0	* 3.0	* 13.0	* 5057.4	* 96.5	* 34.7	* 102.5
* 5070.0	* 3.0	* 12.0	* 5067.4	* 97.0	* 34.8	* 103.0
* 5080.0	* 3.0	* 13.0	* 5077.3	* 97.5	* 34.9	* 103.6
* 5090.0	* 3.0	* 9.0	* 5087.3	* 98.0	* 35.0	* 104.1
* 5100.0	* 3.0	* 9.0	* 5097.3	* 98.5	* 35.1	* 104.6
* 5110.0	* 3.0	* 11.0	* 5107.3	* 99.0	* 35.2	* 105.1
* 5120.0	* 3.0	* 9.0	* 5117.3	* 99.6	* 35.3	* 105.6
* 5130.0	* 3.0	* 10.0	* 5127.3	* 100.1	* 35.4	* 106.1
* 5140.0	* 3.0	* 11.0	* 5137.3	* 100.6	* 35.5	* 106.7
* 5150.0	* 3.0	* 6.0	* 5147.2	* 101.1	* 35.5	* 107.2
* 5160.0	* 3.0	* 10.0	* 5157.2	* 101.6	* 35.6	* 107.7
* 5170.0	* 3.0	* 8.0	* 5167.2	* 102.1	* 35.7	* 108.2
* 5180.0	* 3.0	* 10.0	* 5177.2	* 102.7	* 35.8	* 108.7
* 5190.0	* 3.0	* 6.0	* 5187.2	* 103.2	* 35.8	* 109.2
* 5200.0	* 3.0	* 10.0	* 5197.2	* 103.7	* 35.9	* 109.7
* 5210.0	* 3.0	* 9.0	* 5207.2	* 104.2	* 36.0	* 110.3
* 5220.0	* 3.0	* 9.0	* 5217.2	* 104.7	* 36.1	* 110.8
* 5230.0	* 3.0	* 9.0	* 5227.1	* 105.2	* 36.2	* 111.3
* 5240.0	* 3.0	* 10.0	* 5237.1	* 105.8	* 36.3	* 111.8
* 5250.0	* 3.0	* 11.0	* 5247.1	* 106.3	* 36.4	* 112.3
* 5260.0	* 3.0	* 14.0	* 5257.1	* 106.8	* 36.5	* 112.8
* 5270.0	* 3.0	* 15.0	* 5267.1	* 107.3	* 36.6	* 113.4
* 5280.0	* 3.0	* 13.0	* 5277.1	* 107.8	* 36.7	* 113.9
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* DEPTH	* DEVIATION	* AZIMUTH	* TRUE VERTICAL	* CO-ORDINATES		* COURSE	
* FEET	* DEGREES	* DEGREES	* DEPTH	* + NORTH	* + EAST	* LENGTH	* FEET
*****							
* FEET	* DEGREES	* DEGREES	* FEET	* - SOUTH	* - WEST	* FEET	* FEET
*****							
* 5290.0	* 3.0	* 13.0	* 5287.1	* 108.3	* 36.9	* 114.4	* 114.4
* 5300.0	* 3.0	* 11.0	* 5297.0	* 108.8	* 37.0	* 114.9	* 114.9
* 5310.0	* 3.1	* 10.0	* 5307.0	* 109.4	* 37.0	* 115.5	* 115.5
* 5320.0	* 3.1	* 10.0	* 5317.0	* 109.9	* 37.1	* 116.0	* 116.0
* 5330.0	* 3.1	* 10.0	* 5327.0	* 110.4	* 37.2	* 116.5	* 116.5
* 5340.0	* 3.1	* 10.0	* 5337.0	* 110.9	* 37.3	* 117.1	* 117.1
* 5350.0	* 3.1	* 12.0	* 5347.0	* 111.5	* 37.4	* 117.6	* 117.6
* 5360.0	* 3.1	* 5.0	* 5357.0	* 112.0	* 37.5	* 118.1	* 118.1
* 5370.0	* 3.1	* 3.0	* 5366.9	* 112.6	* 37.5	* 118.6	* 118.6
* 5380.0	* 3.1	* 0.0	* 5376.9	* 113.1	* 37.5	* 119.2	* 119.2
* 5390.0	* 3.1	* 1.0	* 5386.9	* 113.6	* 37.5	* 119.7	* 119.7
* 5400.0	* 3.2	* 5.0	* 5396.9	* 114.2	* 37.6	* 120.2	* 120.2
* 5410.0	* 3.2	* 4.0	* 5406.9	* 114.8	* 37.6	* 120.8	* 120.8
* 5420.0	* 3.2	* 6.0	* 5416.9	* 115.3	* 37.7	* 121.3	* 121.3
* 5430.0	* 3.2	* 13.0	* 5426.8	* 115.8	* 37.8	* 121.9	* 121.9
* 5440.0	* 3.2	* 12.0	* 5436.8	* 116.4	* 37.9	* 122.4	* 122.4
* 5450.0	* 3.2	* 9.0	* 5446.8	* 116.9	* 38.0	* 123.0	* 123.0
* 5460.0	* 3.2	* 10.0	* 5456.8	* 117.5	* 38.1	* 123.5	* 123.5
* 5470.0	* 3.2	* 8.0	* 5466.8	* 118.0	* 38.2	* 124.1	* 124.1
* 5480.0	* 3.3	* 10.0	* 5476.8	* 118.6	* 38.3	* 124.6	* 124.6
* 5490.0	* 3.3	* 12.0	* 5486.8	* 119.2	* 38.4	* 125.2	* 125.2
* 5500.0	* 3.3	* 11.0	* 5496.7	* 119.7	* 38.5	* 125.8	* 125.8
* 5510.0	* 3.3	* 9.0	* 5506.7	* 120.3	* 38.6	* 126.4	* 126.4
* 5520.0	* 3.3	* 10.0	* 5516.7	* 120.9	* 38.7	* 126.9	* 126.9
* 5530.0	* 3.4	* 7.0	* 5526.7	* 121.5	* 38.8	* 127.5	* 127.5
* 5540.0	* 3.5	* 9.0	* 5536.7	* 122.1	* 38.9	* 128.1	* 128.1
* 5550.0	* 3.6	* 8.0	* 5546.6	* 122.7	* 39.0	* 128.7	* 128.7
* 5560.0	* 3.6	* 9.0	* 5556.6	* 123.3	* 39.0	* 129.3	* 129.3
* 5570.0	* 3.4	* 8.0	* 5566.6	* 123.9	* 39.1	* 129.9	* 129.9
* 5580.0	* 3.2	* 9.0	* 5576.6	* 124.5	* 39.2	* 130.5	* 130.5
* 5590.0	* 3.0	* 8.0	* 5586.6	* 125.0	* 39.3	* 131.0	* 131.0
* 5600.0	* 3.0	* 6.0	* 5596.6	* 125.5	* 39.3	* 131.5	* 131.5
* 5610.0	* 3.1	* 8.0	* 5606.6	* 126.0	* 39.4	* 132.0	* 132.0
* 5620.0	* 3.1	* 14.0	* 5616.5	* 126.6	* 39.6	* 132.6	* 132.6
* 5630.0	* 3.3	* 8.0	* 5626.5	* 127.1	* 39.6	* 133.2	* 133.2
* 5640.0	* 3.4	* 11.0	* 5636.5	* 127.7	* 39.7	* 133.7	* 133.7
* 5650.0	* 3.6	* 14.0	* 5646.5	* 128.3	* 39.9	* 134.4	* 134.4
* 5660.0	* 3.4	* 11.0	* 5656.5	* 128.9	* 40.0	* 135.0	* 135.0
* 5670.0	* 3.2	* 6.0	* 5666.5	* 129.4	* 40.1	* 135.5	* 135.5
* 5680.0	* 3.3	* 11.0	* 5676.4	* 130.0	* 40.2	* 136.1	* 136.1
* 5690.0	* 3.4	* 14.0	* 5686.4	* 130.6	* 40.3	* 136.7	* 136.7
* 5700.0	* 3.5	* 6.0	* 5696.4	* 131.2	* 40.4	* 137.3	* 137.3
* 5710.0	* 3.7	* 5.0	* 5706.4	* 131.8	* 40.4	* 137.9	* 137.9
* 5720.0	* 3.6	* 4.0	* 5716.4	* 132.5	* 40.5	* 138.5	* 138.5
* 5730.0	* 3.6	* 7.0	* 5726.3	* 133.1	* 40.6	* 139.1	* 139.1
* 5740.0	* 3.3	* 5.0	* 5736.3	* 133.7	* 40.6	* 139.7	* 139.7
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* DEPTH	* DEVIATION	* AZIMUTH	* TRUE	* CO-ORDINATES	* COURSE		
* FEET	* DEGREES	* DEGREES	* VERTICAL	* + NORTH	* + EAST	* LENGTH	
			* FEET	* - SOUTH	* - WEST	* FEET	
*****							
* 5750.0	* 3.4	* 1.0	* 5746.3	* 134.3	* 40.6	* 140.3	*
* 5760.0	* 3.2	* 8.0	* 5756.3	* 134.8	* 40.7	* 140.8	*
* 5770.0	* 3.0	* 3.0	* 5766.3	* 135.3	* 40.7	* 141.3	*
* 5780.0	* 3.2	* 10.0	* 5776.3	* 135.9	* 40.8	* 141.9	*
* 5790.0	* 3.3	* 8.0	* 5786.2	* 136.5	* 40.9	* 142.5	*
* 5800.0	* 3.1	* 10.0	* 5796.2	* 137.0	* 41.0	* 143.0	*
* 5810.0	* 3.2	* 9.0	* 5806.2	* 137.5	* 41.1	* 143.5	*
* 5820.0	* 3.0	* 10.0	* 5816.2	* 138.1	* 41.2	* 144.1	*
* 5830.0	* 3.0	* 18.0	* 5826.2	* 138.5	* 41.3	* 144.6	*
* 5840.0	* 3.2	* 20.0	* 5836.2	* 139.1	* 41.5	* 145.1	*
* 5850.0	* 3.1	* 19.0	* 5846.2	* 139.6	* 41.7	* 145.7	*
* 5860.0	* 3.4	* 19.0	* 5856.1	* 140.1	* 41.9	* 146.3	*
* 5870.0	* 3.6	* 8.0	* 5866.1	* 140.8	* 42.0	* 146.9	*
* 5880.0	* 3.6	* 10.0	* 5876.1	* 141.4	* 42.1	* 147.5	*
* 5890.0	* 3.2	* 7.0	* 5886.1	* 141.9	* 42.2	* 148.1	*
* 5900.0	* 3.1	* 6.0	* 5896.1	* 142.5	* 42.2	* 148.6	*
* 5910.0	* 3.2	* 5.0	* 5906.1	* 143.0	* 42.3	* 149.1	*
* 5920.0	* 3.1	* 7.0	* 5916.0	* 143.6	* 42.3	* 149.7	*
* 5930.0	* 3.2	* 6.0	* 5926.0	* 144.1	* 42.4	* 150.2	*
* 5940.0	* 3.2	* 6.0	* 5936.0	* 144.7	* 42.5	* 150.8	*
* 5950.0	* 3.7	* 3.0	* 5946.0	* 145.3	* 42.5	* 151.4	*
* 5960.0	* 3.9	* 7.0	* 5956.0	* 146.0	* 42.6	* 152.1	*
* 5970.0	* 3.4	* 1.0	* 5965.9	* 146.6	* 42.6	* 152.7	*
* 5980.0	* 3.4	* 2.0	* 5975.9	* 147.2	* 42.6	* 153.2	*
* 5990.0	* 3.6	* 4.0	* 5985.9	* 147.8	* 42.6	* 153.8	*
* 6000.0	* 3.5	* 360.0	* 5995.9	* 148.4	* 42.6	* 154.4	*
* 6010.0	* 3.4	* 2.0	* 6005.9	* 149.0	* 42.7	* 155.0	*
* 6020.0	* 3.4	* 4.0	* 6015.9	* 149.6	* 42.7	* 155.6	*
* 6030.0	* 3.5	* 1.0	* 6025.8	* 150.2	* 42.7	* 156.2	*
* 6040.0	* 3.5	* 0.0	* 6035.8	* 150.8	* 42.7	* 156.8	*
* 6050.0	* 3.5	* 4.0	* 6045.8	* 151.4	* 42.8	* 157.4	*
* 6060.0	* 3.5	* 5.0	* 6055.8	* 152.0	* 42.8	* 158.0	*
* 6070.0	* 3.5	* 6.0	* 6065.8	* 152.7	* 42.9	* 158.6	*
* 6080.0	* 3.4	* 6.0	* 6075.7	* 153.2	* 42.9	* 159.1	*
* 6090.0	* 3.4	* 4.0	* 6085.7	* 153.8	* 43.0	* 159.7	*
* 6100.0	* 3.4	* 4.0	* 6095.7	* 154.4	* 43.0	* 160.3	*
* 6110.0	* 3.4	* 4.0	* 6105.7	* 155.0	* 43.1	* 160.9	*
* 6120.0	* 3.2	* 4.0	* 6115.7	* 155.6	* 43.1	* 161.4	*
* 6130.0	* 3.5	* 11.0	* 6125.7	* 156.2	* 43.2	* 162.0	*
* 6140.0	* 3.4	* 8.0	* 6135.6	* 156.8	* 43.3	* 162.6	*
* 6150.0	* 3.6	* 13.0	* 6145.6	* 157.4	* 43.4	* 163.3	*
* 6160.0	* 3.6	* 12.0	* 6155.6	* 158.0	* 43.6	* 163.9	*
* 6170.0	* 3.6	* 11.0	* 6165.6	* 158.6	* 43.7	* 164.5	*
* 6180.0	* 3.7	* 10.0	* 6175.6	* 159.2	* 43.8	* 165.2	*
* 6190.0	* 3.8	* 14.0	* 6185.5	* 159.9	* 44.0	* 165.8	*
* 6200.0	* 3.6	* 14.0	* 6195.5	* 160.5	* 44.1	* 166.4	*
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* DEPTH	* DEVIATION	* AZIMUTH	* TRUE	* CO-ORDINATES	* COURSE	* LENGTH
* FEET	* DEGREES	* DEGREES	* VERTICAL	* + NORTH	* + EAST	* FEET
			* DEPTH	* - SOUTH	* - WEST	
			* FEET			
*****						
* 6210.0	* 3.7	* 8.0	* 6205.5	* 161.1	* 44.2	* 167.1
* 6220.0	* 3.7	* 14.0	* 6215.5	* 161.8	* 44.4	* 167.7
* 6230.0	* 3.6	* 13.0	* 6225.5	* 162.4	* 44.5	* 168.4
* 6240.0	* 3.7	* 14.0	* 6235.4	* 163.0	* 44.7	* 169.0
* 6250.0	* 3.7	* 10.0	* 6245.4	* 163.6	* 44.8	* 169.6
* 6260.0	* 3.6	* 13.0	* 6255.4	* 164.2	* 44.9	* 170.3
* 6270.0	* 3.8	* 10.0	* 6265.4	* 164.9	* 45.0	* 170.9
* 6280.0	* 3.8	* 14.0	* 6275.3	* 165.5	* 45.2	* 171.6
* 6290.0	* 3.6	* 14.0	* 6285.3	* 166.1	* 45.3	* 172.2
* 6300.0	* 3.7	* 10.0	* 6295.3	* 166.8	* 45.5	* 172.9
* 6310.0	* 3.8	* 15.0	* 6305.3	* 167.4	* 45.6	* 173.5
* 6320.0	* 3.6	* 13.0	* 6315.3	* 168.0	* 45.8	* 174.2
* 6330.0	* 3.6	* 15.0	* 6325.2	* 168.6	* 45.9	* 174.8
* 6340.0	* 3.8	* 15.0	* 6335.2	* 169.3	* 46.1	* 175.4
* 6350.0	* 3.8	* 5.0	* 6345.2	* 169.9	* 46.2	* 176.1
* 6360.0	* 3.8	* 7.0	* 6355.2	* 170.6	* 46.2	* 176.8
* 6370.0	* 3.8	* 9.0	* 6365.2	* 171.3	* 46.3	* 177.4
* 6380.0	* 3.8	* 9.0	* 6375.1	* 171.9	* 46.4	* 178.1
* 6390.0	* 3.8	* 11.0	* 6385.1	* 172.6	* 46.6	* 178.7
* 6400.0	* 3.8	* 6.0	* 6395.1	* 173.2	* 46.6	* 179.4
* 6410.0	* 3.8	* 1.0	* 6405.1	* 173.9	* 46.7	* 180.0
* 6420.0	* 4.2	* 8.0	* 6415.0	* 174.6	* 46.8	* 180.8
* 6430.0	* 4.1	* 10.0	* 6425.0	* 175.3	* 46.9	* 181.5
* 6440.0	* 4.1	* 9.0	* 6435.0	* 176.0	* 47.0	* 182.2
* 6450.0	* 4.0	* 4.0	* 6445.0	* 176.7	* 47.0	* 182.9
* 6460.0	* 4.0	* 6.0	* 6454.9	* 177.4	* 47.1	* 183.6
* 6470.0	* 4.1	* 3.0	* 6464.9	* 178.1	* 47.1	* 184.3
* 6480.0	* 4.1	* 7.0	* 6474.9	* 178.8	* 47.2	* 185.0
* 6490.0	* 4.2	* 5.0	* 6484.9	* 179.6	* 47.3	* 185.7
* 6500.0	* 4.2	* 5.0	* 6494.8	* 180.3	* 47.4	* 186.4
* 6510.0	* 4.2	* 10.0	* 6504.8	* 181.0	* 47.5	* 187.1
* 6520.0	* 4.2	* 8.0	* 6514.8	* 181.7	* 47.6	* 187.9
* 6530.0	* 4.2	* 16.0	* 6524.8	* 182.4	* 47.8	* 188.6
* 6540.0	* 4.2	* 10.0	* 6534.7	* 183.2	* 47.9	* 189.3
* 6550.0	* 4.2	* 6.0	* 6544.7	* 183.9	* 48.0	* 190.0
* 6560.0	* 4.2	* 3.0	* 6554.7	* 184.6	* 48.0	* 190.8
* 6570.0	* 4.2	* 359.0	* 6564.7	* 185.4	* 48.0	* 191.5
* 6580.0	* 4.2	* 7.0	* 6574.6	* 186.1	* 48.1	* 192.2
* 6590.0	* 4.2	* 4.0	* 6584.6	* 186.8	* 48.2	* 192.9
* 6600.0	* 4.2	* 2.1	* 6594.6	* 187.6	* 48.2	* 193.7
* 6610.0	* 4.4	* 1.5	* 6604.5	* 188.4	* 48.3	* 194.5
* 6620.0	* 4.5	* 2.8	* 6614.5	* 189.2	* 48.3	* 195.3
* 6630.0	* 4.7	* 4.0	* 6624.5	* 190.0	* 48.4	* 196.1
* 6640.0	* 4.8	* 359.0	* 6634.4	* 190.8	* 48.4	* 196.9
* 6650.0	* 4.9	* 3.0	* 6644.4	* 191.7	* 48.4	* 197.7
* 6660.0	* 5.0	* 360.0	* 6654.4	* 192.6	* 48.4	* 198.6
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* DEPTH * * FEET *	* DEVIATION * * DEGREES *	* AZIMUTH * * DEGREES *	* TRUE * * VERTICAL * * DEPTH * * FEET *	* CO-ORDINATES * * + NORTH * * - SOUTH *	* + EAST * * - WEST *	* COURSE * * LENGTH * * FEET *
* 6670.0 *	* 5.0 *	* 5.0 *	* 6664.3 *	* 193.4 *	* 48.5 *	* 199.4 *
* 6680.0 *	* 5.1 *	* 0.0 *	* 6674.3 *	* 194.3 *	* 48.5 *	* 200.3 *
* 6690.0 *	* 5.2 *	* 360.0 *	* 6684.2 *	* 195.2 *	* 48.5 *	* 201.2 *
* 6700.0 *	* 5.1 *	* 4.0 *	* 6694.2 *	* 196.1 *	* 48.5 *	* 202.0 *
* 6710.0 *	* 5.1 *	* 3.0 *	* 6704.2 *	* 197.0 *	* 48.6 *	* 202.9 *
* 6720.0 *	* 5.0 *	* 0.0 *	* 6714.1 *	* 197.9 *	* 48.6 *	* 203.8 *
* 6730.0 *	* 5.0 *	* 357.0 *	* 6724.1 *	* 198.8 *	* 48.5 *	* 204.6 *
* 6740.0 *	* 4.9 *	* 1.0 *	* 6734.0 *	* 199.6 *	* 48.6 *	* 205.4 *
* 6750.0 *	* 6.1 *	* 1.0 *	* 6744.0 *	* 200.7 *	* 48.6 *	* 206.5 *
* 6760.0 *	* 5.0 *	* 356.0 *	* 6754.0 *	* 201.5 *	* 48.5 *	* 207.3 *
* 6770.0 *	* 5.1 *	* 355.0 *	* 6763.9 *	* 202.4 *	* 48.4 *	* 208.1 *
* 6780.0 *	* 5.1 *	* 356.0 *	* 6773.9 *	* 203.3 *	* 48.4 *	* 209.0 *
* 6790.0 *	* 5.2 *	* 352.0 *	* 6783.8 *	* 204.2 *	* 48.3 *	* 209.8 *
* 6800.0 *	* 5.5 *	* 351.0 *	* 6793.8 *	* 205.2 *	* 48.1 *	* 210.7 *
* 6810.0 *	* 5.6 *	* 355.0 *	* 6803.7 *	* 206.2 *	* 48.0 *	* 211.7 *
* 6820.0 *	* 5.7 *	* 354.0 *	* 6813.7 *	* 207.1 *	* 47.9 *	* 212.6 *
* 6830.0 *	* 5.4 *	* 349.0 *	* 6823.6 *	* 208.1 *	* 47.7 *	* 213.5 *
* 6840.0 *	* 5.5 *	* 352.0 *	* 6833.6 *	* 209.0 *	* 47.6 *	* 214.4 *
* 6850.0 *	* 5.4 *	* 352.0 *	* 6843.6 *	* 210.0 *	* 47.5 *	* 215.3 *
* 6860.0 *	* 5.4 *	* 351.0 *	* 6853.5 *	* 210.9 *	* 47.3 *	* 216.1 *
* 6870.0 *	* 5.4 *	* 351.0 *	* 6863.5 *	* 211.8 *	* 47.2 *	* 217.0 *
* 6880.0 *	* 5.3 *	* 351.0 *	* 6873.4 *	* 212.7 *	* 47.0 *	* 217.9 *
* 6890.0 *	* 5.3 *	* 350.0 *	* 6883.4 *	* 213.6 *	* 46.9 *	* 218.7 *
* 6900.0 *	* 5.3 *	* 353.0 *	* 6893.3 *	* 214.6 *	* 46.8 *	* 219.6 *
* 6910.0 *	* 5.3 *	* 354.0 *	* 6903.3 *	* 215.5 *	* 46.7 *	* 220.5 *
* 6920.0 *	* 5.3 *	* 2.0 *	* 6913.2 *	* 216.4 *	* 46.7 *	* 221.4 *
* 6930.0 *	* 5.4 *	* 359.0 *	* 6923.2 *	* 217.3 *	* 46.7 *	* 222.3 *
* 6940.0 *	* 5.4 *	* 356.0 *	* 6933.2 *	* 218.3 *	* 46.6 *	* 223.2 *
* 6950.0 *	* 5.3 *	* 359.0 *	* 6943.1 *	* 219.2 *	* 46.6 *	* 224.1 *
* 6960.0 *	* 5.3 *	* 354.0 *	* 6953.1 *	* 220.1 *	* 46.5 *	* 225.0 *
* 6970.0 *	* 5.2 *	* 357.0 *	* 6963.0 *	* 221.0 *	* 46.5 *	* 225.8 *
* 6980.0 *	* 5.2 *	* 357.0 *	* 6973.0 *	* 221.9 *	* 46.4 *	* 226.7 *
* 6990.0 *	* 5.3 *	* 359.0 *	* 6982.9 *	* 222.8 *	* 46.4 *	* 227.6 *
* 7000.0 *	* 5.3 *	* 355.0 *	* 6992.9 *	* 223.8 *	* 46.3 *	* 228.5 *
* 7010.0 *	* 5.3 *	* 352.0 *	* 7002.9 *	* 224.7 *	* 46.2 *	* 229.4 *
* 7020.0 *	* 5.3 *	* 350.0 *	* 7012.8 *	* 225.6 *	* 46.0 *	* 230.2 *
* 7030.0 *	* 5.3 *	* 356.0 *	* 7022.8 *	* 226.5 *	* 46.0 *	* 231.1 *
* 7040.0 *	* 5.4 *	* 354.0 *	* 7032.7 *	* 227.5 *	* 45.9 *	* 232.0 *
* 7050.0 *	* 5.4 *	* 356.0 *	* 7042.7 *	* 228.4 *	* 45.8 *	* 232.9 *
* 7060.0 *	* 5.4 *	* 2.0 *	* 7052.6 *	* 229.3 *	* 45.8 *	* 233.9 *
* 7070.0 *	* 5.4 *	* 353.0 *	* 7062.6 *	* 230.3 *	* 45.7 *	* 234.8 *
* 7080.0 *	* 5.4 *	* 349.0 *	* 7072.6 *	* 231.2 *	* 45.5 *	* 235.6 *
* 7090.0 *	* 5.5 *	* 353.0 *	* 7082.5 *	* 232.1 *	* 45.4 *	* 236.5 *
* 7100.0 *	* 5.5 *	* 356.0 *	* 7092.5 *	* 233.1 *	* 45.3 *	* 237.5 *
* 7110.0 *	* 5.5 *	* 356.0 *	* 7102.4 *	* 234.1 *	* 45.3 *	* 238.4 *
* 7120.0 *	* 5.5 *	* 355.0 *	* 7112.4 *	* 235.0 *	* 45.2 *	* 239.3 *

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* DEPTH	* DEVIATION	* AZIMUTH	* TRUE	* CO-ORDINATES	* COURSE	
* FEET	* DEGREES	* DEGREES	* VERTICAL	* NORTH	* EAST	* LENGTH
* * *	* * *	* * *	* FEET	* - SOUTH	* - WEST	* FEET
*****						
* 7130.0	* 5.7	* 356.0	* 7122.3	* 236.0	* 45.1	* 240.3
* 7140.0	* 5.5	* 356.0	* 7132.3	* 237.0	* 45.1	* 241.2
* 7150.0	* 5.6	* 353.0	* 7142.2	* 237.9	* 44.9	* 242.1
* 7160.0	* 5.7	* 358.0	* 7152.2	* 238.9	* 44.9	* 243.1
* 7170.0	* 5.8	* 359.0	* 7162.1	* 239.9	* 44.9	* 244.1
* 7180.0	* 5.7	* 357.0	* 7172.1	* 240.9	* 44.8	* 245.1
* 7190.0	* 5.7	* 355.0	* 7182.0	* 241.9	* 44.8	* 246.0
* 7200.0	* 5.8	* 354.0	* 7192.0	* 242.9	* 44.6	* 247.0
* 7210.0	* 5.9	* 353.0	* 7201.9	* 243.9	* 44.5	* 248.0
* 7220.0	* 5.8	* 349.0	* 7211.9	* 244.9	* 44.3	* 248.9
* 7230.0	* 5.9	* 350.0	* 7221.8	* 245.9	* 44.1	* 249.9
* 7240.0	* 5.9	* 353.0	* 7231.8	* 247.0	* 44.0	* 250.8
* 7250.0	* 5.9	* 356.0	* 7241.7	* 248.0	* 44.0	* 251.8
* 7260.0	* 6.0	* 357.0	* 7251.7	* 249.0	* 43.9	* 252.9
* 7270.0	* 6.0	* 354.0	* 7261.6	* 250.1	* 43.8	* 253.9
* 7280.0	* 5.9	* 353.0	* 7271.6	* 251.1	* 43.7	* 254.9
* 7290.0	* 6.1	* 353.0	* 7281.5	* 252.1	* 43.5	* 255.9
* 7300.0	* 6.1	* 353.0	* 7291.4	* 253.2	* 43.4	* 256.9
* 7310.0	* 6.1	* 357.0	* 7301.4	* 254.3	* 43.3	* 257.9
* 7320.0	* 6.1	* 354.0	* 7311.3	* 255.3	* 43.2	* 258.9
* 7330.0	* 6.1	* 356.0	* 7321.3	* 256.4	* 43.2	* 260.0
* 7340.0	* 6.1	* 359.0	* 7331.2	* 257.4	* 43.1	* 261.0
* 7350.0	* 6.1	* 355.0	* 7341.2	* 258.5	* 43.1	* 262.1
* 7360.0	* 6.2	* 354.0	* 7351.1	* 259.6	* 42.9	* 263.1
* 7370.0	* 6.1	* 357.0	* 7361.0	* 260.6	* 42.9	* 264.1
* 7380.0	* 6.1	* 358.0	* 7371.0	* 261.7	* 42.8	* 265.2
* 7390.0	* 6.2	* 357.0	* 7380.9	* 262.8	* 42.8	* 266.2
* 7400.0	* 6.3	* 355.0	* 7390.9	* 263.9	* 42.7	* 267.3
* 7410.0	* 6.1	* 354.0	* 7400.8	* 264.9	* 42.6	* 268.3
* 7420.0	* 6.3	* 353.0	* 7410.7	* 266.0	* 42.4	* 269.4
* 7430.0	* 6.1	* 357.0	* 7420.7	* 267.1	* 42.4	* 270.4
* 7440.0	* 6.1	* 358.0	* 7430.6	* 268.1	* 42.4	* 271.5
* 7450.0	* 6.2	* 356.0	* 7440.6	* 269.2	* 42.3	* 272.5
* 7460.0	* 6.1	* 358.0	* 7450.5	* 270.3	* 42.2	* 273.6
* 7470.0	* 6.1	* 360.0	* 7460.5	* 271.3	* 42.2	* 274.6
* 7480.0	* 6.2	* 358.0	* 7470.4	* 272.4	* 42.2	* 275.7
* 7490.0	* 6.2	* 356.0	* 7480.3	* 273.5	* 42.1	* 276.7
* 7500.0	* 6.2	* 356.0	* 7490.3	* 274.6	* 42.1	* 277.8
* 7510.0	* 6.2	* 355.0	* 7500.2	* 275.6	* 42.0	* 278.8
* 7520.0	* 6.2	* 355.0	* 7510.2	* 276.7	* 41.9	* 279.9
* 7530.0	* 6.2	* 358.0	* 7520.1	* 277.8	* 41.8	* 280.9
* 7540.0	* 6.2	* 358.0	* 7530.1	* 278.9	* 41.8	* 282.0
* 7550.0	* 6.2	* 355.0	* 7540.0	* 280.0	* 41.7	* 283.0
* 7560.0	* 6.2	* 357.0	* 7549.9	* 281.0	* 41.6	* 284.1
* 7570.0	* 6.3	* 359.0	* 7559.9	* 282.1	* 41.6	* 285.2
* 7580.0	* 6.3	* 358.0	* 7569.8	* 283.2	* 41.6	* 286.3
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* REF	* DEPTH	* DEVIATION	* AZIMUTH	* TRUE VERTICAL	* CO-ORDINATES	* COURSE
* FEET	* DEGREES	* DEGREES	* DEGREES	* DEPTH	* + NORTH * + EAST	* LENGTH
* * *	* * *	* * *	* * *	* FEET	* - SOUTH * - WEST	* FEET
*****						
* 7590.0	* 6.3	* 359.0	* 7579.8	* 284.3	* 41.6	* 287.3
* 7600.0	* 6.3	* 360.0	* 7589.7	* 285.4	* 41.6	* 288.4
* 7610.0	* 6.2	* 352.0	* 7599.6	* 286.5	* 41.4	* 289.5
* 7620.0	* 6.2	* 353.0	* 7609.6	* 287.6	* 41.3	* 290.5
* 7630.0	* 6.2	* 354.0	* 7619.5	* 288.6	* 41.2	* 291.6
* 7640.0	* 6.2	* 351.0	* 7629.5	* 289.7	* 41.0	* 292.6
* 7650.0	* 6.2	* 350.0	* 7639.4	* 290.8	* 40.8	* 293.6
* 7660.0	* 6.2	* 352.0	* 7649.3	* 291.8	* 40.7	* 294.7
* 7670.0	* 6.2	* 357.0	* 7659.3	* 292.9	* 40.6	* 295.7
* 7680.0	* 6.2	* 351.0	* 7669.2	* 294.0	* 40.4	* 296.7
* 7690.0	* 6.4	* 351.0	* 7679.2	* 295.1	* 40.3	* 297.8
* 7700.0	* 6.6	* 353.0	* 7689.1	* 296.2	* 40.1	* 298.9
* 7710.0	* 6.3	* 353.0	* 7699.0	* 297.3	* 40.0	* 300.0
* 7720.0	* 6.2	* 353.0	* 7709.0	* 298.4	* 39.9	* 301.0
* 7730.0	* 6.2	* 353.0	* 7718.9	* 299.5	* 39.7	* 302.1
* 7740.0	* 6.2	* 351.0	* 7728.9	* 300.5	* 39.6	* 303.1
* 7750.0	* 6.2	* 354.0	* 7738.8	* 301.6	* 39.4	* 304.2
* 7760.0	* 6.4	* 352.0	* 7748.7	* 302.7	* 39.3	* 305.2
* 7770.0	* 6.4	* 353.0	* 7758.7	* 303.8	* 39.2	* 306.3
* 7780.0	* 6.4	* 348.0	* 7768.6	* 304.9	* 38.9	* 307.4
* 7790.0	* 6.3	* 348.0	* 7778.6	* 306.0	* 38.7	* 308.4
* 7800.0	* 6.2	* 349.0	* 7788.5	* 307.0	* 38.5	* 309.4
* 7810.0	* 6.2	* 351.0	* 7798.4	* 308.1	* 38.3	* 310.5
* 7820.0	* 6.2	* 357.0	* 7808.4	* 309.2	* 38.3	* 311.5
* 7830.0	* 6.3	* 354.0	* 7818.3	* 310.3	* 38.1	* 312.6
* 7840.0	* 6.2	* 354.0	* 7828.3	* 311.3	* 38.0	* 313.7
* 7850.0	* 6.2	* 355.0	* 7838.2	* 312.4	* 37.9	* 314.7
* 7860.0	* 6.3	* 356.0	* 7848.1	* 313.5	* 37.9	* 315.8
* 7870.0	* 6.3	* 356.0	* 7858.1	* 314.6	* 37.8	* 316.9
* 7880.0	* 6.3	* 355.0	* 7868.0	* 315.7	* 37.7	* 317.9
* 7890.0	* 6.4	* 353.0	* 7878.0	* 316.8	* 37.6	* 319.0
* 7900.0	* 6.4	* 355.0	* 7887.9	* 317.9	* 37.5	* 320.1
* 7910.0	* 6.4	* 353.0	* 7897.8	* 319.0	* 37.3	* 321.2
* 7920.0	* 6.4	* 355.0	* 7907.8	* 320.1	* 37.2	* 322.3
* 7930.0	* 6.4	* 358.0	* 7917.7	* 321.2	* 37.2	* 323.4
* 7940.0	* 6.5	* 355.0	* 7927.6	* 322.4	* 37.1	* 324.5
* 7950.0	* 6.6	* 354.0	* 7937.6	* 323.5	* 37.0	* 325.6
* 7960.0	* 6.6	* 351.0	* 7947.5	* 324.7	* 36.8	* 326.7
* 7970.0	* 6.7	* 351.0	* 7957.4	* 325.8	* 36.6	* 327.9
* 7980.0	* 6.8	* 351.0	* 7967.4	* 327.0	* 36.4	* 329.0
* 7990.0	* 6.9	* 351.0	* 7977.3	* 328.2	* 36.2	* 330.2
* 8000.0	* 6.8	* 351.0	* 7987.2	* 329.3	* 36.0	* 331.3
* 8010.0	* 6.8	* 350.0	* 7997.2	* 330.5	* 35.8	* 332.4
* 8020.0	* 6.8	* 348.0	* 8007.1	* 331.7	* 35.6	* 333.6
* 8030.0	* 6.8	* 353.0	* 8017.0	* 332.8	* 35.5	* 334.7
* 8040.0	* 6.8	* 353.0	* 8027.0	* 334.0	* 35.3	* 335.9
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* DEPTH	* DEVIATION	* AZIMUTH	* TRUE	* CO-ORDINATES	* COURSE	
* FEET	* DEGREES	* DEGREES	* VERTICAL	* + NORTH	* + EAST	* LENGTH
			* FEET	* - SOUTH	* - WEST	* FEET
*****						
* 8050.0	* 6.9	* 355.0	* 8036.9	* 335.2	* 35.2	* 337.0
* 8060.0	* 7.5	* 358.0	* 8046.8	* 336.5	* 35.2	* 338.3
* 8070.0	* 6.8	* 1.0	* 8056.7	* 337.7	* 35.2	* 339.5
* 8080.0	* 6.8	* 0.0	* 8066.7	* 338.9	* 35.2	* 340.7
* 8090.0	* 6.8	* 1.0	* 8076.6	* 340.1	* 35.2	* 341.9
* 8100.0	* 6.8	* 1.0	* 8086.5	* 341.2	* 35.2	* 343.1
* 8110.0	* 6.8	* 356.0	* 8096.4	* 342.4	* 35.1	* 344.2
* 8120.0	* 6.8	* 357.0	* 8106.4	* 343.6	* 35.1	* 345.4
* 8130.0	* 6.9	* 358.0	* 8116.3	* 344.8	* 35.0	* 346.6
* 8140.0	* 6.9	* 359.0	* 8126.2	* 346.0	* 35.0	* 347.8
* 8150.0	* 6.9	* 360.0	* 8136.2	* 347.2	* 35.0	* 349.0
* 8160.0	* 6.9	* 2.0	* 8146.1	* 348.4	* 35.1	* 350.2
* 8170.0	* 6.9	* 1.0	* 8156.0	* 349.6	* 35.1	* 351.4
* 8180.0	* 7.0	* 358.0	* 8165.9	* 350.8	* 35.0	* 352.6
* 8190.0	* 6.9	* 358.0	* 8175.9	* 352.0	* 35.0	* 353.8
* 8200.0	* 6.9	* 360.0	* 8185.8	* 353.2	* 35.0	* 355.0
* 8210.0	* 6.9	* 355.0	* 8195.7	* 354.4	* 34.9	* 356.1
* 8220.0	* 6.9	* 357.0	* 8205.6	* 355.6	* 34.8	* 357.3
* 8230.0	* 6.9	* 350.0	* 8215.6	* 356.8	* 34.6	* 358.5
* 8240.0	* 7.0	* 352.0	* 8225.5	* 358.0	* 34.4	* 359.7
* 8250.0	* 7.0	* 351.0	* 8235.4	* 359.2	* 34.3	* 360.9
* 8260.0	* 7.0	* 352.0	* 8245.4	* 360.4	* 34.1	* 362.0
* 8270.0	* 7.0	* 352.0	* 8255.3	* 361.6	* 33.9	* 363.2
* 8280.0	* 7.0	* 353.0	* 8265.2	* 362.8	* 33.8	* 364.4
* 8290.0	* 7.0	* 353.0	* 8275.1	* 364.1	* 33.6	* 365.6
* 8300.0	* 7.0	* 353.0	* 8285.1	* 365.3	* 33.5	* 366.8
* 8310.0	* 7.0	* 353.0	* 8295.0	* 366.5	* 33.3	* 368.0
* 8320.0	* 7.0	* 349.0	* 8304.9	* 367.7	* 33.1	* 369.2
* 8330.0	* 7.0	* 346.0	* 8314.8	* 368.9	* 32.8	* 370.3
* 8340.0	* 7.1	* 352.0	* 8324.8	* 370.1	* 32.6	* 371.5
* 8350.0	* 7.1	* 351.0	* 8334.7	* 371.3	* 32.4	* 372.7
* 8360.0	* 7.1	* 350.0	* 8344.6	* 372.5	* 32.2	* 373.9
* 8370.0	* 7.2	* 352.0	* 8354.5	* 373.8	* 32.0	* 375.1
* 8380.0	* 7.2	* 352.0	* 8364.4	* 375.0	* 31.9	* 376.3
* 8390.0	* 7.1	* 350.0	* 8374.4	* 376.2	* 31.6	* 377.5
* 8400.0	* 7.0	* 349.0	* 8384.3	* 377.4	* 31.4	* 378.7
* 8410.0	* 7.0	* 346.0	* 8394.2	* 378.6	* 31.1	* 379.9
* 8420.0	* 7.0	* 351.0	* 8404.1	* 379.8	* 30.9	* 381.1
* 8430.0	* 7.0	* 354.0	* 8414.1	* 381.0	* 30.8	* 382.3
* 8440.0	* 7.1	* 355.0	* 8424.0	* 382.2	* 30.7	* 383.5
* 8450.0	* 7.1	* 355.0	* 8433.9	* 383.5	* 30.6	* 384.7
* 8460.0	* 7.0	* 355.0	* 8443.8	* 384.7	* 30.5	* 385.9
* 8470.0	* 7.1	* 353.0	* 8453.8	* 385.9	* 30.3	* 387.1
* 8480.0	* 7.1	* 356.0	* 8463.7	* 387.1	* 30.2	* 388.3
* 8490.0	* 7.1	* 357.0	* 8473.6	* 388.4	* 30.2	* 389.6
* 8500.0	* 7.2	* 356.0	* 8483.5	* 389.6	* 30.1	* 390.8
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* DEPTH	* DEVIATION	* AZIMUTH	* TRUE VERTICAL	* CO-ORDINATES		* COURSE	
* FEET	* DEGREES	* DEGREES	* FEET	* + NORTH	* + EAST	* - SOUTH	* - WEST
*****							
* FEET	* DEGREES	* DEGREES	* FEET	* - SOUTH	* - WEST	* FEET	* FEET
*****							
* 8510.0	* 7.2	* 357.0	* 8493.5	* 390.9	* 30.0	* 392.0	* 392.0
* 8520.0	* 7.3	* 358.0	* 8503.4	* 392.2	* 30.0	* 393.3	* 393.3
* 8530.0	* 7.8	* 357.0	* 8513.3	* 393.5	* 29.9	* 394.6	* 394.6
* 8540.0	* 7.2	* 356.0	* 8523.2	* 394.8	* 29.8	* 395.9	* 395.9
* 8550.0	* 7.2	* 357.0	* 8533.1	* 396.0	* 29.8	* 397.1	* 397.1
* 8560.0	* 7.3	* 357.0	* 8543.0	* 397.3	* 29.7	* 398.4	* 398.4
* 8570.0	* 7.3	* 356.0	* 8553.0	* 398.5	* 29.6	* 399.6	* 399.6
* 8580.0	* 7.3	* 357.0	* 8562.9	* 399.8	* 29.5	* 400.9	* 400.9
* 8590.0	* 7.3	* 357.0	* 8572.8	* 401.1	* 29.5	* 402.2	* 402.2
* 8600.0	* 7.4	* 356.0	* 8582.7	* 402.4	* 29.4	* 403.4	* 403.4
* 8610.0	* 7.3	* 357.0	* 8592.6	* 403.6	* 29.3	* 404.7	* 404.7
* 8620.0	* 7.3	* 356.0	* 8602.5	* 404.9	* 29.2	* 406.0	* 406.0
* 8630.0	* 7.4	* 356.0	* 8612.5	* 406.2	* 29.1	* 407.2	* 407.2
* 8640.0	* 7.4	* 355.0	* 8622.4	* 407.5	* 29.0	* 408.5	* 408.5
* 8650.0	* 7.4	* 356.0	* 8632.3	* 408.8	* 28.9	* 409.8	* 409.8
* 8660.0	* 7.4	* 356.0	* 8642.2	* 410.0	* 28.8	* 411.1	* 411.1
* 8670.0	* 7.4	* 358.0	* 8652.1	* 411.3	* 28.8	* 412.3	* 412.3
* 8680.0	* 7.5	* 357.0	* 8662.0	* 412.6	* 28.7	* 413.6	* 413.6
* 8690.0	* 7.4	* 356.0	* 8672.0	* 413.9	* 28.6	* 414.9	* 414.9
* 8700.0	* 7.5	* 357.0	* 8681.9	* 415.2	* 28.6	* 416.2	* 416.2
* 8710.0	* 7.5	* 357.0	* 8691.8	* 416.5	* 28.5	* 417.5	* 417.5
* 8720.0	* 7.5	* 354.0	* 8701.7	* 417.8	* 28.4	* 418.8	* 418.8
* 8730.0	* 7.5	* 353.0	* 8711.6	* 419.1	* 28.2	* 420.1	* 420.1
* 8740.0	* 7.6	* 354.0	* 8721.5	* 420.4	* 28.1	* 421.4	* 421.4
* 8750.0	* 7.6	* 353.0	* 8731.4	* 421.7	* 27.9	* 422.7	* 422.7
* 8760.0	* 7.6	* 355.0	* 8741.4	* 423.1	* 27.8	* 424.0	* 424.0
* 8770.0	* 7.7	* 357.0	* 8751.3	* 424.4	* 27.7	* 425.3	* 425.3
* 8780.0	* 7.7	* 356.0	* 8761.2	* 425.7	* 27.6	* 426.6	* 426.6
* 8790.0	* 7.6	* 355.0	* 8771.1	* 427.1	* 27.5	* 427.9	* 427.9
* 8800.0	* 7.7	* 355.0	* 8781.0	* 428.4	* 27.4	* 429.3	* 429.3
* 8810.0	* 7.6	* 356.0	* 8790.9	* 429.7	* 27.3	* 430.6	* 430.6
* 8820.0	* 7.7	* 355.0	* 8800.8	* 431.0	* 27.2	* 431.9	* 431.9
* 8830.0	* 7.7	* 356.0	* 8810.7	* 432.4	* 27.1	* 433.2	* 433.2
* 8840.0	* 7.7	* 355.0	* 8820.6	* 433.7	* 27.0	* 434.6	* 434.6
* 8850.0	* 7.6	* 356.0	* 8830.6	* 435.0	* 26.9	* 435.9	* 435.9
* 8860.0	* 7.6	* 356.0	* 8840.5	* 436.4	* 26.8	* 437.2	* 437.2
* 8870.0	* 7.6	* 354.0	* 8850.4	* 437.7	* 26.7	* 438.5	* 438.5
* 8880.0	* 7.6	* 356.0	* 8860.3	* 439.0	* 26.6	* 439.8	* 439.8
* 8890.0	* 7.7	* 356.0	* 8870.2	* 440.3	* 26.5	* 441.1	* 441.1
* 8900.0	* 7.7	* 356.0	* 8880.1	* 441.7	* 26.4	* 442.4	* 442.4
* 8910.0	* 7.8	* 355.0	* 8890.0	* 443.0	* 26.3	* 443.8	* 443.8
* 8920.0	* 7.6	* 355.0	* 8899.9	* 444.3	* 26.1	* 445.1	* 445.1
* 8930.0	* 7.6	* 355.0	* 8909.8	* 445.6	* 26.0	* 446.4	* 446.4
* 8940.0	* 7.6	* 355.0	* 8919.8	* 447.0	* 25.9	* 447.7	* 447.7
* 8950.0	* 7.6	* 355.0	* 8929.7	* 448.3	* 25.8	* 449.0	* 449.0
* 8960.0	* 7.6	* 353.0	* 8939.6	* 449.6	* 25.6	* 450.3	* 450.3
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* DEPTH	* DEVIATION	* AZIMUTH	* TRUE	* CO-ORDINATES	* COURSE		
* FEET	* DEGREES	* DEGREES	* VERTICAL	* DEPTH	* + NORTH	* + EAST	* LENGTH
			* FEET		* - SOUTH	* - WEST	* FEET
*****							
* 8970.0	* 7.5	* 356.0	* 8949.5	* 450.0	* 25.5	* 451.6	*
* 8980.0	* 7.3	* 356.0	* 8959.4	* 452.2	* 25.5	* 452.9	*
* 8990.0	* 7.1	* 354.0	* 8969.3	* 453.4	* 25.3	* 454.1	*
* 9000.0	* 7.8	* 348.0	* 8979.2	* 454.7	* 25.0	* 455.4	*
* 9010.0	* 7.6	* 356.0	* 8989.2	* 456.0	* 25.0	* 456.7	*
* 9020.0	* 7.6	* 354.0	* 8999.1	* 457.4	* 24.8	* 458.0	*
* 9030.0	* 7.0	* 354.0	* 9009.0	* 458.6	* 24.7	* 459.2	*
* 9040.0	* 7.5	* 355.0	* 9018.9	* 459.9	* 24.6	* 460.5	*
* 9050.0	* 7.9	* 348.0	* 9028.8	* 461.2	* 24.3	* 461.9	*
* 9060.0	* 7.8	* 351.0	* 9038.7	* 462.6	* 24.1	* 463.2	*
* 9070.0	* 7.9	* 353.0	* 9048.6	* 463.9	* 23.9	* 464.5	*
* 9080.0	* 8.0	* 353.0	* 9058.5	* 465.3	* 23.7	* 465.9	*
* 9090.0	* 8.0	* 351.0	* 9068.4	* 466.7	* 23.5	* 467.3	*
* 9100.0	* 7.9	* 349.0	* 9078.3	* 468.0	* 23.3	* 468.6	*
* 9110.0	* 8.0	* 348.0	* 9088.2	* 469.4	* 23.0	* 469.9	*
* 9120.0	* 8.1	* 345.0	* 9098.1	* 470.7	* 22.6	* 471.3	*
* 9130.0	* 8.2	* 348.0	* 9108.0	* 472.1	* 22.3	* 472.7	*
* 9140.0	* 7.9	* 350.0	* 9117.9	* 473.5	* 22.1	* 474.0	*
* 9150.0	* 8.1	* 350.0	* 9127.8	* 474.9	* 21.8	* 475.4	*
* 9160.0	* 8.0	* 351.0	* 9137.7	* 476.3	* 21.6	* 476.7	*
* 9170.0	* 8.0	* 348.0	* 9147.6	* 477.6	* 21.3	* 478.1	*
* 9180.0	* 8.0	* 349.0	* 9157.5	* 479.0	* 21.1	* 479.4	*
* 9190.0	* 8.1	* 359.0	* 9167.4	* 480.4	* 21.0	* 480.9	*
* 9200.0	* 8.2	* 351.0	* 9177.3	* 481.8	* 20.8	* 482.3	*
* 9210.0	* 8.3	* 348.0	* 9187.2	* 483.2	* 20.5	* 483.7	*
* 9220.0	* 8.4	* 351.0	* 9197.1	* 484.7	* 20.3	* 485.1	*
* 9230.0	* 8.6	* 350.0	* 9207.0	* 486.1	* 20.0	* 486.5	*
* 9240.0	* 8.7	* 351.0	* 9216.9	* 487.6	* 19.8	* 488.0	*
* 9250.0	* 8.8	* 345.0	* 9226.8	* 489.1	* 19.4	* 489.5	*
* 9260.0	* 9.0	* 350.0	* 9236.7	* 490.6	* 19.1	* 491.0	*
* 9270.0	* 8.7	* 346.0	* 9246.6	* 492.1	* 18.7	* 492.5	*
* 9280.0	* 8.5	* 346.0	* 9256.4	* 493.5	* 18.4	* 493.9	*
* 9290.0	* 8.2	* 343.0	* 9266.3	* 494.9	* 18.0	* 495.2	*
* 9300.0	* 8.0	* 343.0	* 9276.2	* 496.2	* 17.6	* 496.6	*
* 9310.0	* 7.7	* 345.0	* 9286.2	* 497.5	* 17.2	* 497.8	*
* 9320.0	* 7.5	* 348.0	* 9296.1	* 498.8	* 16.9	* 499.1	*
* 9330.0	* 7.4	* 348.0	* 9306.0	* 500.1	* 16.7	* 500.3	*
* 9340.0	* 7.4	* 351.0	* 9315.9	* 501.3	* 16.5	* 501.6	*
* 9350.0	* 7.4	* 354.0	* 9325.8	* 502.6	* 16.3	* 502.9	*
* 9360.0	* 7.4	* 355.0	* 9335.7	* 503.9	* 16.2	* 504.2	*
* 9370.0	* 7.4	* 354.0	* 9345.6	* 505.2	* 16.1	* 505.4	*
* 9380.0	* 7.4	* 357.0	* 9355.6	* 506.5	* 16.0	* 506.7	*
* 9390.0	* 7.4	* 357.0	* 9365.5	* 507.8	* 16.0	* 508.0	*
* 9400.0	* 7.4	* 358.0	* 9375.4	* 509.0	* 15.9	* 509.3	*
* 9410.0	* 7.4	* 359.0	* 9385.3	* 510.3	* 15.9	* 510.6	*
* 9420.0	* 7.4	* 2.0	* 9395.2	* 511.6	* 15.9	* 511.9	*
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* DEPTH	* DEVIATION	* AZIMUTH	* TRUE	* CO-ORDINATES	*****		
* FEET	* DEGREES	* DEGREES	* VERTICAL	* + NORTH	* + EAST	* COURSE	* LENGTH
			* FEET	* - SOUTH	* - WEST	* FEET	
*****							
* 9430.0	* 7.4	* 3.0	* 9405.1	* 512.9	* 16.0	* 513.2	*
* 9440.0	* 7.4	* 2.0	* 9415.1	* 514.2	* 16.1	* 514.4	*
* 9450.0	* 7.4	* 5.0	* 9425.0	* 515.5	* 16.2	* 515.7	*
* 9460.0	* 7.4	* 6.0	* 9434.9	* 516.8	* 16.3	* 517.0	*
* 9470.0	* 7.4	* 7.0	* 9444.8	* 518.0	* 16.5	* 518.3	*
* 9480.0	* 7.4	* 7.0	* 9454.7	* 519.3	* 16.6	* 519.6	*
* 9490.0	* 7.4	* 10.0	* 9464.7	* 520.6	* 16.8	* 520.9	*
* 9500.0	* 7.4	* 8.0	* 9474.6	* 521.9	* 17.0	* 522.1	*
* 9510.0	* 7.2	* 11.0	* 9484.5	* 523.1	* 17.3	* 523.4	*
* 9520.0	* 7.2	* 11.0	* 9494.4	* 524.3	* 17.5	* 524.6	*
* 9530.0	* 7.2	* 13.0	* 9504.3	* 525.5	* 17.8	* 525.8	*
* 9540.0	* 7.4	* 15.0	* 9514.2	* 526.8	* 18.1	* 527.1	*
* 9550.0	* 7.8	* 17.0	* 9524.2	* 528.1	* 18.5	* 528.4	*
* 9560.0	* 7.5	* 16.0	* 9534.1	* 529.3	* 18.9	* 529.7	*
* 9570.0	* 7.8	* 16.0	* 9544.0	* 530.6	* 19.3	* 531.0	*
* 9580.0	* 7.6	* 20.0	* 9553.9	* 531.9	* 19.7	* 532.2	*
* 9590.0	* 7.5	* 22.0	* 9563.8	* 533.1	* 20.2	* 533.5	*
* 9600.0	* 7.5	* 23.0	* 9573.7	* 534.3	* 20.7	* 534.7	*
* 9610.0	* 7.8	* 23.0	* 9583.6	* 535.5	* 21.3	* 536.0	*
* 9620.0	* 7.7	* 26.0	* 9593.5	* 536.7	* 21.9	* 537.2	*
* 9630.0	* 7.8	* 27.0	* 9603.4	* 537.9	* 22.5	* 538.4	*
* 9640.0	* 8.0	* 29.0	* 9613.3	* 539.2	* 23.1	* 539.7	*
* 9650.0	* 8.1	* 28.0	* 9623.2	* 540.4	* 23.8	* 540.9	*
* 9660.0	* 8.2	* 28.0	* 9633.1	* 541.7	* 24.5	* 542.2	*
* 9670.0	* 8.3	* 28.0	* 9643.0	* 542.9	* 25.2	* 543.5	*
* 9680.0	* 8.5	* 28.0	* 9652.9	* 544.2	* 25.8	* 544.9	*
* 9690.0	* 8.6	* 30.0	* 9662.8	* 545.5	* 26.6	* 546.2	*
* 9700.0	* 8.6	* 33.0	* 9672.7	* 546.8	* 27.4	* 547.5	*
* 9710.0	* 8.7	* 35.0	* 9682.6	* 548.0	* 28.3	* 548.8	*
* 9720.0	* 8.6	* 36.0	* 9692.5	* 549.2	* 29.2	* 550.0	*
* 9730.0	* 8.6	* 36.0	* 9702.4	* 550.5	* 30.0	* 551.3	*
* 9740.0	* 8.8	* 37.0	* 9712.2	* 551.7	* 31.0	* 552.5	*
* 9750.0	* 9.3	* 37.0	* 9722.1	* 553.0	* 31.9	* 553.9	*
* 9760.0	* 9.3	* 39.0	* 9732.0	* 554.2	* 32.9	* 555.2	*
* 9770.0	* 9.3	* 39.0	* 9741.9	* 555.5	* 34.0	* 556.5	*
* 9780.0	* 9.4	* 38.0	* 9751.7	* 556.8	* 35.0	* 557.9	*
* 9790.0	* 9.5	* 41.0	* 9761.6	* 558.0	* 36.0	* 559.2	*
* 9800.0	* 9.2	* 40.0	* 9771.5	* 559.2	* 37.1	* 560.5	*
* 9810.0	* 9.3	* 42.0	* 9781.3	* 560.4	* 38.2	* 561.7	*
* 9820.0	* 9.1	* 42.0	* 9791.2	* 561.6	* 39.2	* 563.0	*
* 9830.0	* 9.1	* 39.0	* 9801.1	* 562.8	* 40.2	* 564.3	*
* 9840.0	* 9.2	* 43.0	* 9810.9	* 564.0	* 41.3	* 565.5	*
* 9850.0	* 9.2	* 42.0	* 9820.8	* 565.2	* 42.4	* 566.8	*
* 9860.0	* 9.3	* 42.0	* 9830.7	* 566.4	* 43.5	* 568.1	*
* 9870.0	* 9.4	* 44.0	* 9840.5	* 567.6	* 44.6	* 569.3	*
* 9880.0	* 9.4	* 46.0	* 9850.4	* 568.7	* 45.8	* 570.5	*
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* DEPTH	* DEVIATION	* AZIMUTH	* TRUE	* CO-ORDINATES		* COURSE	
* FEET	* DEGREES	* DEGREES	* VERTICAL	* + NORTH	* + EAST	* + SOUTH	* - WEST
* FEET	* DEGREES	* DEGREES	* DEPTH	* FEET	* FEET	* FEET	* FEET
*****							
* 9890.0	* 9.6	* 46.0	* 9860.3	* 569.9	* 47.0	* 571.8	*
* 9900.0	* 9.7	* 47.0	* 9870.1	* 571.0	* 48.2	* 573.0	*
* 9910.0	* 9.5	* 45.0	* 9880.0	* 572.2	* 49.4	* 574.3	*
* 9920.0	* 9.5	* 48.0	* 9889.9	* 573.3	* 50.6	* 575.5	*
* 9930.0	* 9.4	* 47.0	* 9899.7	* 574.4	* 51.8	* 576.7	*
* 9940.0	* 9.4	* 54.0	* 9909.6	* 575.4	* 53.1	* 577.8	*
* 9950.0	* 9.4	* 48.0	* 9919.5	* 576.5	* 54.3	* 579.0	*
* 9960.0	* 9.4	* 50.0	* 9929.3	* 577.5	* 55.6	* 580.2	*
* 9970.0	* 9.4	* 49.0	* 9939.2	* 578.6	* 56.8	* 581.4	*
* 9980.0	* 9.6	* 49.0	* 9949.0	* 579.7	* 58.1	* 582.6	*
* 9990.0	* 10.1	* 47.0	* 9958.9	* 580.9	* 59.3	* 583.9	*
* 10000.0	* 10.0	* 50.0	* 9968.7	* 582.0	* 60.7	* 585.1	*
* 10010.0	* 9.7	* 48.0	* 9978.6	* 583.1	* 61.9	* 586.4	*
* 10020.0	* 9.7	* 49.0	* 9988.4	* 584.2	* 63.2	* 587.6	*
* 10030.0	* 9.5	* 49.0	* 9998.3	* 585.3	* 64.4	* 588.8	*
* 10040.0	* 9.4	* 51.0	* 10008.2	* 586.3	* 65.7	* 590.0	*
* 10050.0	* 9.4	* 51.0	* 10018.0	* 587.4	* 67.0	* 591.2	*
* 10060.0	* 9.3	* 50.0	* 10027.9	* 588.4	* 68.2	* 592.3	*
* 10070.0	* 9.4	* 54.0	* 10037.8	* 589.4	* 69.5	* 593.4	*
* 10080.0	* 9.4	* 55.0	* 10047.6	* 590.3	* 70.9	* 594.5	*
* 10090.0	* 9.4	* 55.0	* 10057.5	* 591.2	* 72.2	* 595.6	*
* 10100.0	* 9.4	* 54.0	* 10067.4	* 592.2	* 73.5	* 596.7	*
* 10110.0	* 9.4	* 55.0	* 10077.2	* 593.1	* 74.9	* 597.8	*
* 10120.0	* 9.3	* 54.0	* 10087.1	* 594.1	* 76.2	* 598.9	*
* 10130.0	* 9.1	* 55.0	* 10097.0	* 595.0	* 77.5	* 600.0	*
* 10140.0	* 9.1	* 58.0	* 10106.9	* 595.8	* 78.8	* 601.0	*
* 10150.0	* 9.2	* 58.0	* 10116.7	* 596.7	* 80.2	* 602.0	*
* 10160.0	* 9.1	* 56.0	* 10126.6	* 597.5	* 81.5	* 603.1	*
* 10170.0	* 8.9	* 57.0	* 10136.5	* 598.4	* 82.8	* 604.1	*
* 10180.0	* 8.9	* 55.0	* 10146.4	* 599.3	* 84.1	* 605.1	*
* 10190.0	* 8.7	* 55.0	* 10156.2	* 600.1	* 85.3	* 606.2	*
* 10200.0	* 8.7	* 56.0	* 10166.1	* 601.0	* 86.5	* 607.2	*
* 10210.0	* 8.8	* 56.0	* 10176.0	* 601.8	* 87.6	* 608.2	*
* 10220.0	* 8.6	* 55.0	* 10185.9	* 602.7	* 89.0	* 609.2	*
* 10230.0	* 8.6	* 57.0	* 10195.8	* 603.5	* 90.3	* 610.2	*
* 10240.0	* 8.6	* 56.0	* 10205.7	* 604.4	* 91.5	* 611.2	*
* 10250.0	* 8.6	* 58.0	* 10215.6	* 605.1	* 92.8	* 612.2	*
* 10260.0	* 8.6	* 58.0	* 10225.5	* 605.9	* 94.1	* 613.2	*
* 10270.0	* 8.6	* 56.0	* 10235.3	* 606.8	* 95.3	* 614.2	*
* 10280.0	* 8.6	* 55.0	* 10245.2	* 607.6	* 96.5	* 615.3	*
* 10290.0	* 8.6	* 54.0	* 10255.1	* 608.5	* 97.7	* 616.3	*
* 10300.0	* 8.6	* 57.0	* 10265.0	* 609.3	* 99.0	* 617.3	*
* 10310.0	* 8.6	* 55.0	* 10274.9	* 610.2	* 100.2	* 618.4	*
* 10320.0	* 8.6	* 56.0	* 10284.8	* 611.0	* 101.5	* 619.4	*
* 10330.0	* 8.7	* 54.0	* 10294.7	* 611.9	* 102.7	* 620.5	*
* 10340.0	* 8.8	* 57.0	* 10304.5	* 612.7	* 104.0	* 621.5	*
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* DEPTH	* DEVIATION	* AZIMUTH	* TRUE	* CO-ORDINATES		* COURSE	
* FEET	* DEGREES	* DEGREES	* VERTICAL	* + NORTH	* + EAST	* + SOUTH	* + WEST
			* DEPTH	* FEET	* FEET	* FEET	* FEET
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* 10350.0	* 8.6	* 55.0	* 10314.4	* 613.6	* 105.2	* 622.6	* 622.6
* 10360.0	* 8.5	* 57.0	* 10324.3	* 614.4	* 106.4	* 623.6	* 623.6
* 10370.0	* 8.6	* 56.0	* 10334.2	* 615.2	* 107.7	* 624.6	* 624.6
* 10380.0	* 9.0	* 56.0	* 10344.1	* 616.1	* 109.0	* 625.7	* 625.7
* 10390.0	* 9.0	* 56.0	* 10354.0	* 617.0	* 110.3	* 626.8	* 626.8
* 10400.0	* 8.7	* 58.0	* 10363.8	* 617.8	* 111.5	* 627.8	* 627.8
* 10410.0	* 8.8	* 58.0	* 10373.7	* 618.6	* 112.8	* 628.8	* 628.8
* 10420.0	* 9.0	* 56.0	* 10383.6	* 619.5	* 114.1	* 629.9	* 629.9
* 10430.0	* 8.8	* 55.0	* 10393.5	* 620.4	* 115.4	* 631.0	* 631.0
* 10440.0	* 8.6	* 53.0	* 10403.4	* 621.3	* 116.6	* 632.1	* 632.1
* 10450.0	* 8.6	* 58.0	* 10413.3	* 622.1	* 117.9	* 633.1	* 633.1
* 10460.0	* 8.8	* 61.0	* 10423.1	* 622.8	* 119.2	* 634.1	* 634.1
* 10470.0	* 8.8	* 59.0	* 10433.0	* 623.6	* 120.5	* 635.1	* 635.1
* 10480.0	* 8.6	* 60.0	* 10442.9	* 624.3	* 121.8	* 636.1	* 636.1
* 10490.0	* 8.6	* 61.0	* 10452.8	* 625.1	* 123.1	* 637.1	* 637.1
* 10500.0	* 8.6	* 58.0	* 10462.7	* 625.8	* 124.4	* 638.1	* 638.1
* 10510.0	* 8.6	* 59.0	* 10472.6	* 626.6	* 125.7	* 639.1	* 639.1
* 10520.0	* 8.6	* 61.0	* 10482.5	* 627.3	* 127.0	* 640.1	* 640.1
* 10530.0	* 8.6	* 60.0	* 10492.4	* 628.1	* 128.3	* 641.1	* 641.1
* 10540.0	* 8.5	* 59.0	* 10502.2	* 628.8	* 129.5	* 642.1	* 642.1
* 10550.0	* 8.4	* 62.0	* 10512.1	* 629.5	* 130.8	* 643.0	* 643.0
* 10560.0	* 8.2	* 62.0	* 10522.0	* 630.2	* 132.1	* 643.9	* 643.9
* 10570.0	* 8.3	* 62.0	* 10531.9	* 630.9	* 133.4	* 644.8	* 644.8
* 10580.0	* 8.5	* 58.0	* 10541.8	* 631.7	* 134.6	* 645.8	* 645.8
* 10590.0	* 8.4	* 60.0	* 10551.7	* 632.4	* 135.9	* 646.8	* 646.8
* 10600.0	* 8.2	* 61.0	* 10561.6	* 633.1	* 137.1	* 647.8	* 647.8
* 10610.0	* 8.2	* 63.0	* 10571.5	* 633.7	* 138.4	* 648.7	* 648.7
* 10620.0	* 8.1	* 61.0	* 10581.4	* 634.4	* 139.6	* 649.6	* 649.6
* 10630.0	* 8.0	* 64.0	* 10591.3	* 635.0	* 140.9	* 650.5	* 650.5
* 10640.0	* 8.1	* 64.0	* 10601.2	* 635.6	* 142.1	* 651.3	* 651.3
* 10650.0	* 8.1	* 64.0	* 10611.1	* 636.3	* 143.4	* 652.2	* 652.2
* 10660.0	* 8.0	* 63.0	* 10621.0	* 636.9	* 144.6	* 653.1	* 653.1
* 10670.0	* 8.0	* 66.0	* 10630.9	* 637.5	* 145.9	* 653.9	* 653.9
* 10680.0	* 8.0	* 67.0	* 10640.8	* 638.0	* 147.2	* 654.8	* 654.8
* 10690.0	* 8.0	* 65.0	* 10650.7	* 638.6	* 148.5	* 655.6	* 655.6
* 10700.0	* 8.0	* 65.0	* 10660.6	* 639.2	* 149.7	* 656.5	* 656.5
* 10710.0	* 8.0	* 66.0	* 10670.5	* 639.7	* 151.0	* 657.3	* 657.3
* 10720.0	* 8.0	* 65.0	* 10680.4	* 640.3	* 152.3	* 658.2	* 658.2
* 10730.0	* 7.9	* 62.0	* 10690.3	* 641.0	* 153.5	* 659.1	* 659.1
* 10740.0	* 7.9	* 65.0	* 10700.2	* 641.6	* 154.7	* 660.0	* 660.0
* 10750.0	* 7.8	* 65.0	* 10710.1	* 642.1	* 155.9	* 660.8	* 660.8
* 10760.0	* 7.8	* 63.0	* 10720.1	* 642.8	* 157.2	* 661.7	* 661.7
* 10770.0	* 7.7	* 65.0	* 10730.0	* 643.3	* 158.4	* 662.5	* 662.5
* 10780.0	* 7.6	* 64.0	* 10739.9	* 643.9	* 159.6	* 663.4	* 663.4
* 10790.0	* 7.3	* 61.0	* 10749.8	* 644.5	* 160.7	* 664.2	* 664.2
* 10800.0	* 7.2	* 61.0	* 10759.7	* 645.1	* 161.8	* 665.1	* 665.1
*****							



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*****
*           *           *           * TRUE          * CO-ORDINATES *           *
* DEPTH     * DEVIATION * AZIMUTH * VERTICAL    * *****     * COURSE *
* FEET      * DEGREES  * DEGREES * DEPTH      * + NORTH * + EAST * LENGTH *
*           *           *           * FEET       * - SOUTH * - WEST * FEET   *
*****
* 11270.0 * 7.3 * 71.0 * 11226.2 * 672.0 * 212.0 * 704.6 *
* 11280.0 * 7.2 * 71.0 * 11236.1 * 672.4 * 213.2 * 705.3 *
* 11290.0 * 7.1 * 70.0 * 11246.1 * 672.8 * 214.3 * 706.1 *
* 11300.0 * 7.1 * 72.0 * 11256.0 * 673.2 * 215.5 * 706.8 *
* 11310.0 * 7.0 * 71.0 * 11265.9 * 673.6 * 216.7 * 707.5 *
* 11320.0 * 7.0 * 71.0 * 11275.8 * 674.0 * 217.8 * 708.3 *
* 11330.0 * 7.0 * 71.0 * 11285.8 * 674.4 * 219.0 * 709.0 *
*****
    
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BOTTOM HOLE LOCATION

COURSE LENGTH: 709.0 FEET

COURSE AZIMUTH: 18.0 DEGREES

MEASURED DEPTH: 11330.0 FEET

TRUE VERTICAL DEPTH: 11285.8 FEET

DISTANCE NORTH: 674.4 FEET

DISTANCE EAST: 219.0 FEET

TANGENTIAL METHOD

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\*\*\*\*\*SCHLUMBERGER\*\*\*\*\*  
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\*\*\*\*\*

DIPMETER  
CLUSTER  
CALCULATION  
LISTING

CHAMPLIN PETROLEUM COMPAN

# 1 NEWTON SHEEP

PINEVIEW

SUMMIT, UTAH

RUN NO. TWO            JOB NO. 2511

CORRELATION LENGTH        4 FT.

STEP LENGTH                2 FT.

SEARCH ANGLE               30 DEG. X2

19-DEC-76

*****							
* FORMATION *				* BOREHOLE		* QUAL. *	
* ----- * INDEX *							
* DEPTH *	* DIP	DIP	* DEV.	DEV.	DIAM	DIAM	* BEST *
* * *	* * *	AZI.	* * *	AZI.	1-3	2-4	* =4 *
*****							
* 2558.0			0.4	338	11.2	10.9	*
* 2560.0	28.9	116	0.4	344	11.4	11.0	3 *
* 2562.0	32.4	116	0.5	350	11.6	11.0	1 *
* 2564.0	25.0	113	0.5	355	11.7	11.0	3 *
* 2566.0	23.8	124	0.5	4	11.8	11.0	3 *
* 2568.0			0.5	10	11.9	11.0	*
* 2570.0			0.5	9	12.1	11.2	*
* 2572.0	22.7	107	0.5	6	12.2	11.3	1 *
* 2574.0			0.5	4	12.3	11.4	*
* 2576.0	28.2	59	0.6	1	12.3	11.6	3 *
* 2578.0			0.6	0	12.3	11.8	*
* 2580.0	25.2	53	0.6	9	12.2	12.0	1 *
* 2582.0			0.6	19	12.2	11.9	*
* 2584.0			0.6	17	12.2	12.0	*
* 2586.0			0.6	10	12.2	12.5	*
* 2588.0	20.8	59	0.6	13	12.2	12.9	1 *
* 2590.0			0.6	15	12.2	13.1	*
* 2592.0	28.9	64	0.6	10	12.2	13.3	1 *
* 2594.0			0.6	16	12.2	13.4	*
* 2596.0			0.6	22	12.0	13.5	*
* 2598.0			0.6	13	11.7	13.0	*
* 2600.0			0.6	1	11.4	13.8	*
* 2602.0			0.6	15	11.2	14.1	*
* 2604.0			0.6	40	11.4	14.4	*
* 2606.0			0.6	52	12.2	15.2	*
* 2608.0			0.6	58	13.1	16.0	*
* 2610.0	7.6	100	0.6	53	13.2	15.7	1 *
* 2612.0	12.6	84	0.7	38	12.9	15.3	3 *
* 2614.0	15.0	78	0.7	4	13.9	15.9	3 *
* 2616.0	17.7	84	0.7	320	15.6	17.4	1 *
* 2618.0			0.7	338	15.0	17.5	*
* 2620.0			0.7	25	12.9	14.6	*
* 2622.0			0.7	50	11.3	13.0	*
* 2624.0			0.7	74	11.1	14.6	*
* 2626.0			0.7	84	11.7	15.4	*
* 2628.0			0.7	90	11.7	14.7	*
* 2630.0			0.7	93	11.8	14.4	*
* 2632.0			0.7	94	13.2	15.9	*
* 2634.0			0.7	105	14.0	17.1	*
* 2636.0	31.2	287	0.7	137	13.6	17.1	3 *
* 2638.0	31.5	299	0.7	142	13.1	16.8	1 *
* 2640.0			0.7	113	12.1	15.3	*
* 2642.0			0.7	99	11.8	14.5	*
* 2644.0			0.7	92	12.0	14.7	*
* 2646.0			0.7	89	11.9	14.4	*
*****							

*****									
* FORMATION *					BOREHOLE		* QUAL. *		
*****									
* DEPTH *	* DIP	DIP	* DEV.	DEV.	DIAM	DIAM	* BEST	* INDEX *	
* * *	* * *	AZI.	* * *	AZI.	1-3	2-4	* * *	* =4 *	
*****									
* 2648.0			0.7	89	11.8	13.8			
* 2650.0			0.7	87	12.2	13.5			
* 2652.0			0.6	106	15.4	14.0			
* 2654.0			0.6	142	17.7	15.3			
* 2656.0	27.7	317	0.6	162	17.7	16.0	1		
* 2658.0	26.4	314	0.6	135	17.7	15.8	1		
* 2660.0			0.6	94	17.9	15.6			
* 2662.0			0.6	95	17.8	15.4			
* 2664.0			0.6	101	17.7	14.9			
* 2666.0			0.6	92	17.1	15.0			
* 2668.0			0.6	82	16.2	15.5			
* 2670.0			0.6	83	16.9	16.4			
* 2672.0			0.6	93	18.0	17.3			
* 2674.0			0.7	100	17.9	17.2			
* 2676.0			0.6	97	17.9	16.6			
* 2678.0			0.6	91	18.0	15.7			
* 2680.0			0.6	90	17.9	15.5			
* 2682.0			0.7	96	17.8	15.5			
* 2684.0			0.7	97	17.8	14.9			
* 2686.0			0.8	94	17.5	14.6			
* 2688.0			0.7	93	17.6	14.6			
* 2690.0			0.6	102	18.0	15.1			
* 2692.0			0.7	107	18.0	15.3			
* 2694.0			0.7	102	18.0	15.1			
* 2696.0			0.8	99	18.0	14.2			
* 2698.0			0.8	112	18.0	14.4			
* 2700.0			0.6	127	18.0	14.6			
* 2702.0			0.5	122	18.0	14.1			
* 2704.0			0.6	113	17.8	13.9			
* 2706.0			0.6	110	17.8	14.3			
* 2708.0			0.6	109	18.0	15.2			
* 2710.0			0.7	109	18.0	15.4			
* 2712.0			0.8	111	18.0	15.3			
* 2714.0			0.8	112	18.0	15.3			
* 2716.0			0.9	113	18.0	15.1			
* 2718.0			0.9	113	18.0	15.2			
* 2720.0			1.0	111	18.0	14.9			
* 2722.0			0.9	110	17.6	14.6			
* 2724.0			1.1	111	17.1	14.7			
* 2726.0			1.3	118	17.6	15.8			
* 2728.0			1.3	125	18.0	15.8			
* 2730.0			1.1	122	17.9	13.6			
* 2732.0			1.0	113	17.8	13.3			
* 2734.0			1.0	100	17.8	14.2			
* 2736.0			1.1	94	17.5	13.4			
*****									

*****							
* FORMATION *	* BOREHOLE *						* QUAL. *
*****							
* DEPTH *	* DIP *	DIP	* DEV. *	DEV.	DIAM	DIAM	* BEST *
		AZI.		AZI.	1-3	2-4	* #4 *
*****							
* 2738.0			1.2	95	17.2	12.7	*
* 2740.0			1.1	102	17.6	13.4	*
* 2742.0			1.1	110	18.0	13.8	*
* 2744.0			1.3	110	18.0	13.6	*
* 2746.0			1.4	110	18.0	13.6	*
* 2748.0			1.4	109	18.0	14.1	*
* 2750.0			1.4	100	17.7	13.8	*
* 2752.0			1.3	94	17.3	14.2	*
* 2754.0			1.1	101	17.6	15.5	*
* 2756.0			1.1	114	18.0	14.7	*
* 2758.0			1.3	120	18.0	14.3	*
* 2760.0			1.2	118	18.0	13.5	*
* 2762.0			0.9	125	18.0	12.7	*
* 2764.0			0.9	132	18.0	13.2	*
* 2766.0			1.1	128	18.0	13.2	*
* 2768.0			1.2	120	18.0	13.2	*
* 2770.0			1.0	112	18.0	11.5	*
* 2772.0			0.8	107	17.7	9.7	*
* 2774.0			0.9	106	17.4	9.9	*
* 2776.0			0.9	107	17.7	11.0	*
* 2778.0	50.5	128	0.8	108	18.0	11.5	3 *
* 2780.0			0.9	111	18.0	11.3	*
* 2782.0			0.9	116	18.0	11.2	*
* 2784.0	43.3	127	0.9	119	18.0	11.0	1 *
* 2786.0	43.1	125	1.1	138	18.0	10.4	1 *
* 2788.0			1.1	143	18.0	9.9	*
* 2790.0			0.8	127	18.0	9.5	*
* 2792.0			0.7	118	18.0	9.3	*
* 2794.0	18.1	152	0.7	110	18.0	9.3	2 *
* 2796.0	19.3	142	0.8	108	18.0	9.3	4 *
* 2798.0	15.7	143	0.9	112	18.0	9.4	4 *
* 2800.0	16.6	151	1.0	118	18.0	10.0	4 *
* 2802.0	13.3	134	0.9	119	18.0	10.4	4 *
* 2804.0	13.5	134	0.9	109	18.0	10.4	4 *
* 2806.0	15.2	226	1.1	91	18.0	10.7	3 *
* 2808.0	14.3	179	1.2	91	18.0	12.6	2 *
* 2810.0	18.9	145	1.0	101	18.0	13.6	3 *
* 2812.0			0.8	101	18.0	13.4	*
* 2814.0			0.7	114	18.0	13.0	*
* 2816.0	18.4	158	0.6	134	18.0	12.6	1 *
* 2818.0			0.6	118	17.9	13.8	*
* 2820.0			0.6	92	16.9	13.1	*
* 2822.0			0.7	95	16.2	10.7	*
* 2824.0			0.7	102	16.5	9.3	*
* 2826.0			0.7	94	16.1	8.6	*

*****									
* FORMATION *	* BOREHOLE *						* QUAL. *	* INDEX *	
* DEPTH *	* DIP *	DIP	* DEV. *	DEV.	DIAM	DIAM	* BEST *	* =4 *	
		AZI.		AZI.	1-3	2-4			
*****									
* 2828.0			0.7	63	14.3	8.1			*
* 2830.0			0.7	41	11.6	8.1			*
* 2832.0			0.7	54	12.1	8.4			*
* 2834.0			0.7	71	15.0	9.0			*
* 2836.0			0.7	59	15.8	9.6			*
* 2838.0			0.9	35	15.0	9.3			*
* 2840.0			1.0	29	13.1	8.9			*
* 2842.0			1.0	62	12.7	8.7			*
* 2844.0			1.1	100	15.1	9.0			*
* 2846.0			1.1	123	17.6	10.4			*
* 2848.0			1.0	134	18.0	11.1			*
* 2850.0	11.8	270	1.0	138	18.0	10.7	1		*
* 2852.0	19.2	274	1.0	134	17.8	10.1	1		*
* 2854.0	19.8	282	1.0	136	17.5	9.2	1		*
* 2856.0	19.4	285	1.0	137	17.2	8.8	1		*
* 2858.0	32.5	230	0.7	131	16.0	8.8	1		*
* 2860.0	27.5	234	0.6	122	15.1	8.7	1		*
* 2862.0			0.6	96	14.9	8.7			*
* 2864.0			0.6	74	14.7	8.6			*
* 2866.0	28.3	234	0.6	72	14.7	8.8	1		*
* 2868.0			0.6	76	15.5	9.0			*
* 2870.0			0.6	66	17.1	9.2			*
* 2872.0			0.6	44	16.9	9.1			*
* 2874.0			0.6	42	15.5	8.7			*
* 2876.0			0.6	67	15.7	8.5			*
* 2878.0			0.6	86	16.1	8.4			*
* 2880.0			0.6	89	16.2	8.3			*
* 2882.0	13.2	130	0.6	89	16.1	8.4	1		*
* 2884.0	18.7	126	0.6	86	16.1	8.4	1		*
* 2886.0			0.6	84	16.1	8.3			*
* 2888.0			0.6	87	16.2	8.4			*
* 2890.0			0.6	90	16.4	8.5			*
* 2892.0			0.6	86	16.4	8.5			*
* 2894.0			0.6	84	16.5	8.4			*
* 2896.0			0.6	86	16.8	8.4			*
* 2898.0			0.6	84	17.1	8.5			*
* 2900.0	45.8	159	0.6	81	17.4	8.5	3		*
* 2902.0			0.6	73	17.8	8.4			*
* 2904.0			0.6	56	17.9	8.3			*
* 2906.0			0.6	47	17.5	8.3			*
* 2908.0			0.6	48	17.2	8.3			*
* 2910.0			0.6	52	17.1	8.1			*
* 2912.0			0.6	63	17.2	7.9			*
* 2914.0			0.6	74	17.4	8.1			*
* 2916.0			0.6	78	17.5	8.2			*

*****									
* FORMATION *					BOREHOLE		* QUAL. *		
* ----- * INDEX *									
* DEPTH *	* DIP	DIP	* DEV.	DEV.	DIAM	DIAM	* BEST	* #4 *	
*****									
		AZI.		AZI.	1-3	2-4			
* 2918.0			0.6	75	17.5	8.2			*
* 2920.0			0.6	74	17.7	8.3			*
* 2922.0			0.6	77	17.9	8.4			*
* 2924.0	21.3	67	0.6	67	18.0	8.5	1		*
* 2926.0			0.6	40	17.9	8.6			*
* 2928.0			0.7	20	17.3	8.6			*
* 2930.0			0.7	20	16.9	8.4			*
* 2932.0			0.8	26	17.0	8.2			*
* 2934.0	7.7	127	0.9	32	17.5	8.5	1		*
* 2936.0	4.0	131	0.9	28	18.0	9.1	1		*
* 2938.0	11.8	127	0.8	21	18.0	9.2	1		*
* 2940.0	12.0	112	0.7	20	18.0	8.4	1		*
* 2942.0	15.7	126	0.8	30	18.0	7.6	1		*
* 2944.0			1.0	33	17.6	7.9			*
* 2946.0	12.3	115	1.1	32	17.1	9.0	1		*
* 2948.0	11.2	110	1.3	36	17.5	10.6	1		*
* 2950.0			1.3	23	18.0	12.6			*
* 2952.0			1.1	6	17.5	12.0			*
* 2954.0			0.9	5	16.4	9.2			*
* 2956.0			0.9	7	15.3	8.1			*
* 2958.0			1.0	10	15.8	8.2			*
* 2960.0			1.2	17	17.3	8.7			*
* 2962.0			1.2	30	18.0	10.2			*
* 2964.0			1.1	38	18.0	11.3			*
* 2966.0			0.9	38	18.0	11.1			*
* 2968.0			1.0	33	18.0	10.1			*
* 2970.0			1.1	21	18.0	8.8			*
* 2972.0			1.2	15	18.0	8.4			*
* 2974.0			1.2	11	18.0	8.3			*
* 2976.0			1.3	8	18.0	8.3			*
* 2978.0			1.3	12	18.0	8.5			*
* 2980.0			1.4	19	18.0	9.8			*
* 2982.0			1.4	13	18.0	10.0			*
* 2984.0			1.4	3	17.6	9.0			*
* 2986.0			1.4	2	17.6	8.8			*
* 2988.0			1.4	3	17.9	9.3			*
* 2990.0	17.1	72	1.5	1	18.0	10.0	1		*
* 2992.0	19.2	69	1.5	359	18.0	10.1	1		*
* 2994.0	18.5	84	1.6	358	18.0	10.0	1		*
* 2996.0	12.2	94	1.6	356	18.0	10.3	1		*
* 2998.0	10.8	66	1.5	354	18.0	11.2	3		*
* 3000.0	9.6	64	1.5	355	18.0	12.0	3		*
* 3002.0			1.4	359	18.0	11.7			*
* 3004.0			1.4	2	18.0	11.2			*
* 3006.0	17.7	39	1.5	8	18.0	11.3	1		*
*****									

*****									
* FORMATION *					* BOREHOLE *		* QUAL. *		
*****									
* DEPTH *	* DIP	DIP	* DEV.	DEV.	DIAM	DIAM	* BEST	* INDEX *	
* * *	* * *	AZI.	* * *	AZI.	1-3	2-4	* =4	* * *	
*****									
* 3008.0			1.5	12	18.0	11.7			*
* 3010.0	10.8	157	1.5	11	18.0	11.3	3		*
* 3012.0	11.5	155	1.5	12	18.0	11.2	3		*
* 3014.0	10.6	200	1.4	14	18.0	11.5	1		*
* 3016.0			1.4	21	17.9	10.4			*
* 3018.0			1.4	21	17.4	9.7			*
* 3020.0			1.4	17	16.6	9.3			*
* 3022.0			1.4	15	16.5	9.1			*
* 3024.0			1.4	11	16.9	9.7			*
* 3026.0	9.5	183	1.3	7	17.3	10.0	1		*
* 3028.0			1.3	6	17.1	8.8			*
* 3030.0			1.3	8	15.0	7.7			*
* 3032.0			1.2	7	11.8	8.0			*
* 3034.0			1.2	6	10.3	8.3			*
* 3036.0			1.2	4	11.0	8.7			*
* 3038.0			1.2	5	12.8	9.1			*
* 3040.0			1.1	10	14.4	9.7			*
* 3042.0			1.1	16	16.5	10.4			*
* 3044.0	56.5	269	1.1	21	17.6	10.4	1		*
* 3046.0			1.0	27	17.5	9.7			*
* 3048.0			1.0	38	17.4	9.4			*
* 3050.0	19.3	279	1.0	46	17.5	9.8	1		*
* 3052.0			1.1	47	17.8	10.1			*
* 3054.0			1.1	43	17.7	9.8			*
* 3056.0	17.7	277	1.1	37	17.3	9.2	1		*
* 3058.0	17.0	282	1.1	38	17.0	9.0	3		*
* 3060.0			1.1	31	17.1	9.3			*
* 3062.0	14.0	299	1.2	20	17.6	11.0	1		*
* 3064.0			1.2	15	17.7	11.6			*
* 3066.0			1.2	13	17.3	11.1			*
* 3068.0	15.1	271	1.2	13	17.3	11.8	1		*
* 3070.0	3.3	159	1.2	9	17.3	11.5	1		*
* 3072.0			1.3	12	16.8	12.1			*
* 3074.0			1.3	15	16.6	13.0			*
* 3076.0			1.3	14	16.8	12.4			*
* 3078.0			1.3	12	17.0	11.7			*
* 3080.0	7.6	197	1.4	12	17.2	11.7	3		*
* 3082.0	8.6	201	1.4	17	17.1	12.8	3		*
* 3084.0			1.4	17	17.0	12.4			*
* 3086.0	13.0	179	1.4	11	16.6	10.6	1		*
* 3088.0	11.2	195	1.4	12	15.4	10.4	3		*
* 3090.0			1.5	17	15.0	11.8			*
* 3092.0			1.5	13	15.9	13.3			*
* 3094.0			1.5	4	16.6	13.5			*
* 3096.0	11.6	15	1.5	2	17.0	11.6	1		*
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*****									
* FORMATION *					* BOREHOLE		* QUAL. *		
*****									
* DEPTH *	* DIP	DIP	* DEV.	DEV.	DIAM	DIAM	* INDEX *	* BEST *	
* * *	* * *	AZI.	* * *	AZI.	1-3	2-4	* * *	* ≥4 *	
*****									
* 3098.0	4.6	31	1.5	6	16.3	8.8	1	*	
* 3100.0	1.7	201	1.6	7	15.9	9.2	3	*	
* 3102.0	10.9	202	1.6	7	15.9	10.8	1	*	
* 3104.0	11.1	208	1.6	11	15.9	12.8	1	*	
* 3106.0			1.6	13	16.2	12.7		*	
* 3108.0			1.6	10	16.2	11.1		*	
* 3110.0			1.6	13	16.7	11.1		*	
* 3112.0			1.6	16	16.9	11.7		*	
* 3114.0			1.6	15	16.7	11.4		*	
* 3116.0			1.7	13	16.1	10.0		*	
* 3118.0			1.7	11	13.8	8.7		*	
* 3120.0	13.1	203	1.7	11	11.9	8.5	1	*	
* 3122.0	10.7	189	1.7	10	13.9	9.4	1	*	
* 3124.0	8.6	190	1.7	9	15.9	11.0	1	*	
* 3126.0	8.1	201	1.7	12	16.2	12.1	3	*	
* 3128.0			1.7	15	16.2	12.5		*	
* 3130.0	7.4	224	1.8	13	16.0	13.3	3	*	
* 3132.0	19.1	254	1.8	11	16.0	12.7	3	*	
* 3134.0	8.3	225	1.8	17	15.8	10.9	3	*	
* 3136.0	4.8	231	1.8	22	15.7	11.2	3	*	
* 3138.0	8.6	228	1.8	19	15.9	13.2	1	*	
* 3140.0	2.4	107	1.8	14	16.2	14.7	1	*	
* 3142.0	1.4	186	1.8	13	16.3	13.1	1	*	
* 3144.0	9.8	192	1.8	16	16.0	12.5	1	*	
* 3146.0	9.2	111	1.9	16	15.8	12.1	1	*	
* 3148.0	10.7	111	1.9	15	15.7	10.6	3	*	
* 3150.0	10.3	227	1.9	14	15.6	10.3	1	*	
* 3152.0			1.9	14	15.6	10.5		*	
* 3154.0			1.9	14	15.3	10.3		*	
* 3156.0	8.2	199	1.9	14	15.1	10.1	1	*	
* 3158.0	6.8	204	1.9	16	14.8	9.9	3	*	
* 3160.0	7.0	210	1.9	15	14.7	9.9	3	*	
* 3162.0	9.3	296	2.0	15	14.7	10.0	2	*	
* 3164.0	9.0	293	2.0	14	14.7	10.0	3	*	
* 3166.0	9.0	198	2.0	15	14.8	10.3	3	*	
* 3168.0	9.7	191	2.0	16	15.2	11.4	3	*	
* 3170.0	8.1	295	2.0	13	15.7	12.3	2	*	
* 3172.0			2.0	11	15.8	11.7		*	
* 3174.0	4.6	238	2.0	12	15.4	11.3	4	*	
* 3176.0	3.3	290	2.0	18	14.8	12.1	4	*	
* 3178.0	14.0	149	2.0	16	15.1	13.8	2	*	
* 3180.0	3.7	197	2.0	15	15.4	13.8	4	*	
* 3182.0	6.7	208	2.0	16	13.8	10.9	4	*	
* 3184.0	3.5	213	2.0	11	11.2	8.6	2	*	
* 3186.0			2.0	13	10.9	8.9		*	

*****									
* FORMATION *			* BOREHOLE *				* QUAL. *		
*****									
* DEPTH *	* DIP	DIP	* DEV.	DEV.	DIAM	DIAM	* BEST *	* INDEX *	
* * *	* * *	AZI.	* * *	AZI.	1-3	2-4	* =4 *	* * *	
*****									
* 3188.0	15.8	197	2.0	14	13.2	9.7	1	*	*
* 3190.0			2.0	12	14.4	10.2		*	*
* 3192.0	11.0	205	2.0	13	14.2	10.3	3	*	*
* 3194.0	7.8	200	2.0	14	14.1	10.3	3	*	*
* 3196.0	7.7	191	2.0	15	14.3	10.4	3	*	*
* 3198.0	8.7	194	2.0	18	14.6	10.7	3	*	*
* 3200.0	8.6	198	2.0	23	15.1	12.3	3	*	*
* 3202.0			2.0	22	15.0	12.3		*	*
* 3204.0			2.0	20	14.6	10.7		*	*
* 3206.0			2.0	18	14.6	10.4		*	*
* 3208.0			2.0	16	14.5	10.3		*	*
* 3210.0	14.9	164	2.0	16	14.3	10.2	2	*	*
* 3212.0	16.0	161	2.0	16	14.2	10.2	2	*	*
* 3214.0	9.2	161	2.0	16	14.0	10.2	2	*	*
* 3216.0	9.0	138	2.0	16	14.0	10.3	4	*	*
* 3218.0	11.8	137	2.0	17	14.1	10.5	4	*	*
* 3220.0	7.7	150	2.0	17	14.2	10.7	4	*	*
* 3222.0	5.9	151	2.0	16	14.2	10.8	4	*	*
* 3224.0	14.1	168	2.0	16	14.3	11.1	4	*	*
* 3226.0	11.8	154	2.0	17	14.6	11.6	4	*	*
* 3228.0	6.6	173	1.9	17	14.7	11.6	4	*	*
* 3230.0	7.2	191	1.9	16	14.7	11.4	4	*	*
* 3232.0	8.3	172	1.9	14	14.6	11.2	4	*	*
* 3234.0	6.3	165	1.9	15	14.7	11.4	4	*	*
* 3236.0			1.9	17	15.3	12.6		*	*
* 3238.0			1.9	19	15.2	12.5		*	*
* 3240.0	5.0	172	1.9	18	14.6	11.3	4	*	*
* 3242.0	9.7	180	1.9	17	14.5	11.0	4	*	*
* 3244.0			1.9	17	14.5	11.1		*	*
* 3246.0	18.1	188	1.9	17	14.3	11.1	2	*	*
* 3248.0	10.3	177	1.9	16	14.1	10.9	2	*	*
* 3250.0	6.8	187	1.9	15	14.0	10.8	1	*	*
* 3252.0	6.0	248	1.9	14	13.9	10.8	1	*	*
* 3254.0	6.3	238	1.9	12	13.8	10.7	1	*	*
* 3256.0	3.5	222	1.9	12	13.9	10.9	1	*	*
* 3258.0	8.5	245	1.9	13	14.1	11.1	1	*	*
* 3260.0			1.9	14	14.5	11.7		*	*
* 3262.0	6.2	222	1.9	16	14.8	11.9	3	*	*
* 3264.0	7.7	221	1.9	15	14.8	11.3	3	*	*
* 3266.0	6.4	194	1.9	17	15.0	11.4	3	*	*
* 3268.0			1.9	17	14.6	11.3		*	*
* 3270.0			1.9	17	14.2	10.9		*	*
* 3272.0	9.6	173	1.9	19	14.0	10.9	4	*	*
* 3274.0	9.4	185	1.9	19	14.5	11.1	4	*	*
* 3276.0	7.3	167	1.9	19	15.0	11.5	4	*	*

*****									
* FORMATION *					* BOREHOLE		* QUAL. *		
*****									
* DEPTH *	* DIP	DIP	* DEV.	DEV.	DIAM	DIAM	* BEST	* INDEX *	
* * *	* * *	AZI.	* * *	AZI.	1-3	2-4	* #4	* * *	
*****									
* 3278.0	4.7	180	1.9	18	14.7	11.5	4	*	*
* 3280.0	6.2	181	1.9	20	14.7	11.9	4	*	*
* 3282.0	7.0	182	1.9	21	15.2	12.5	4	*	*
* 3284.0	9.9	142	1.9	17	14.9	12.0	2	*	*
* 3286.0	6.3	161	1.9	16	14.2	11.2	2	*	*
* 3288.0	6.4	219	1.8	16	14.2	11.2	2	*	*
* 3290.0	8.3	187	1.8	17	14.2	11.3	3	*	*
* 3292.0	6.3	191	1.8	16	14.2	11.4	1	*	*
* 3294.0	8.6	176	1.8	14	13.9	11.0	1	*	*
* 3296.0			1.9	16	13.2	10.1		*	*
* 3298.0	10.1	209	1.9	18	12.8	9.9	3	*	*
* 3300.0	12.6	211	1.9	19	12.8	10.0	3	*	*
* 3302.0			1.9	21	12.7	10.3		*	*
* 3304.0	11.3	189	1.9	21	12.9	10.7	1	*	*
* 3306.0	18.6	181	2.1	17	13.7	10.6	1	*	*
* 3308.0			2.1	14	14.1	10.3		*	*
* 3310.0			2.0	13	14.2	10.3		*	*
* 3312.0	11.0	165	2.0	14	14.4	10.6	1	*	*
* 3314.0			2.0	19	14.7	11.5		*	*
* 3316.0	21.6	143	2.0	20	14.7	11.9	1	*	*
* 3318.0			2.0	20	14.4	11.5		*	*
* 3320.0			2.0	19	14.0	11.2		*	*
* 3322.0			2.0	19	13.6	10.9		*	*
* 3324.0			2.0	21	13.4	10.7		*	*
* 3326.0	3.3	195	2.0	21	13.4	10.5	3	*	*
* 3328.0	5.2	190	2.0	18	13.4	10.6	3	*	*
* 3330.0	16.9	234	1.9	16	13.3	10.7	2	*	*
* 3332.0	14.0	235	1.9	15	13.2	10.6	4	*	*
* 3334.0	5.0	162	2.0	16	13.1	10.5	4	*	*
* 3336.0	6.5	158	2.1	17	13.1	10.6	4	*	*
* 3338.0	8.4	191	2.1	18	13.1	10.6	4	*	*
* 3340.0	7.4	209	2.1	19	13.2	10.5	4	*	*
* 3342.0	8.0	235	2.1	19	13.3	10.5	4	*	*
* 3344.0	5.6	233	2.2	19	13.4	10.6	4	*	*
* 3346.0	4.7	216	2.1	21	13.7	10.9	4	*	*
* 3348.0	7.1	195	2.1	20	14.1	11.5	4	*	*
* 3350.0	9.0	196	2.0	19	14.5	12.0	4	*	*
* 3352.0			2.0	19	14.3	11.8		*	*
* 3354.0			2.1	17	13.6	11.2		*	*
* 3356.0	9.4	199	2.1	17	13.1	10.7	2	*	*
* 3358.0	15.1	180	2.1	19	13.5	10.8	4	*	*
* 3360.0	12.6	180	2.1	19	14.0	11.1	4	*	*
* 3362.0	15.4	185	2.0	19	13.7	10.9	2	*	*
* 3364.0	4.0	248	2.0	22	13.7	11.0	4	*	*
* 3366.0	7.5	241	2.1	23	14.6	12.0	4	*	*

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* FORMATION *			* BOREHOLE *				* QUAL. *
----- INDEX -----							
* DEPTH *	* DIP	DIP	* DEV.	DEV.	DIAM	DIAM	* BEST *
		AZI.		AZI.	1-3	2-4	* z4 *
* 3368.0	8.8	216	2.1	22	15.1	12.5	4
* 3370.0	6.6	154	2.1	22	15.0	12.2	1
* 3372.0			2.2	22	14.5	11.7	
* 3374.0	9.2	252	2.1	21	14.1	11.5	1
* 3376.0	6.9	234	2.0	22	14.8	12.5	3
* 3378.0	6.1	234	2.0	23	15.8	14.2	3
* 3380.0	7.4	146	2.0	23	15.9	14.3	1
* 3382.0	5.4	139	1.9	23	15.5	13.3	1
* 3384.0	6.3	161	1.8	22	15.2	12.8	1
* 3386.0	11.6	181	1.9	19	15.2	12.6	3
* 3388.0	11.1	157	2.0	19	15.5	13.4	3
* 3390.0	13.1	159	1.9	20	15.6	14.0	4
* 3392.0			1.9	19	15.3	13.7	
* 3394.0	11.5	188	1.9	19	15.2	12.6	4
* 3396.0	11.9	183	1.8	21	14.4	11.4	4
* 3398.0	4.8	199	1.9	21	13.7	11.1	4
* 3400.0	5.0	216	2.0	21	14.2	11.6	4
* 3402.0	5.4	206	2.0	22	14.7	11.9	2
* 3404.0			2.0	21	14.5	11.6	
* 3406.0	13.3	176	2.0	20	14.2	11.3	2
* 3408.0	15.8	167	2.1	19	13.9	11.2	4
* 3410.0			2.2	20	13.9	11.3	
* 3412.0			2.2	21	14.0	11.3	
* 3414.0	4.9	137	2.2	22	13.9	11.2	1
* 3416.0			2.1	22	13.9	11.2	
* 3418.0	1.5	170	2.1	21	14.0	11.2	1
* 3420.0	3.3	322	2.2	20	14.3	11.4	1
* 3422.0	17.3	278	2.2	20	14.4	11.4	1
* 3424.0	3.7	267	2.2	21	14.6	10.7	1
* 3426.0	5.1	314	2.2	21	15.1	10.6	1
* 3428.0			2.2	21	15.5	11.4	
* 3430.0	8.9	203	2.2	21	15.2	11.9	4
* 3432.0	9.2	202	2.2	21	14.7	11.8	4
* 3434.0	11.2	182	2.2	22	14.6	11.6	2
* 3436.0	11.6	231	2.2	23	14.5	11.5	4
* 3438.0	7.5	220	2.2	22	14.1	11.4	4
* 3440.0			2.2	23	14.0	11.5	
* 3442.0	6.5	198	2.2	24	14.1	12.0	4
* 3444.0			2.2	22	14.2	12.2	
* 3446.0	18.8	214	2.2	22	14.9	12.6	2
* 3448.0	12.6	211	2.2	22	15.1	12.5	4
* 3450.0	2.3	257	2.2	22	14.6	12.1	4
* 3452.0	12.5	244	2.2	20	14.5	11.8	2
* 3454.0	7.0	289	2.2	20	14.6	12.0	4
* 3456.0	3.8	277	2.2	23	15.5	13.1	4

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*****									
* FORMATION *					* BOREHOLE		* QUAL. *		
*****									
* DEPTH *	* DIP	DIP	* DEV.	DEV.	DIAM	DIAM	* BEST	* INDEX *	
* * *	* * *	AZI.	* * *	AZI.	1-3	2-4	* =4	* * *	
*****									
* 3548.0	3.6	276	2.3	22	13.9	12.7	4	*	*
* 3550.0	5.7	238	2.3	23	15.0	13.3	1	*	*
* 3552.0			2.3	21	15.5	13.8		*	*
* 3554.0	15.3	185	2.3	21	14.5	13.6	3	*	*
* 3556.0	17.2	195	2.3	21	13.8	12.9	3	*	*
* 3558.0			2.3	21	13.4	12.1		*	*
* 3560.0	11.3	163	2.3	20	13.2	11.7	1	*	*
* 3562.0	9.1	173	2.3	20	13.3	11.9	3	*	*
* 3564.0	9.8	176	2.3	18	13.4	12.0	3	*	*
* 3566.0	14.8	190	2.3	18	13.6	12.2	3	*	*
* 3568.0	19.4	11	2.4	19	13.8	12.4	3	*	*
* 3570.0	5.6	2	2.4	20	14.6	13.3	1	*	*
* 3572.0	4.1	229	2.4	19	14.7	13.4	3	*	*
* 3574.0	4.6	230	2.4	19	14.2	12.8	3	*	*
* 3576.0			2.4	19	13.8	12.4		*	*
* 3578.0			2.4	19	13.6	12.3		*	*
* 3580.0	5.8	262	2.5	19	13.0	10.9	1	*	*
* 3582.0	4.4	305	2.6	20	12.4	9.8	1	*	*
* 3584.0			2.6	22	13.0	11.2		*	*
* 3586.0			2.6	19	13.8	12.6		*	*
* 3588.0	8.0	177	2.6	17	13.9	12.9	1	*	*
* 3590.0	28.8	72	2.5	18	13.9	12.7	3	*	*
* 3592.0			2.5	20	13.8	12.4		*	*
* 3594.0	9.3	146	2.5	20	13.8	12.2	2	*	*
* 3596.0	8.7	193	2.5	20	13.6	12.1	4	*	*
* 3598.0	10.9	189	2.5	20	13.6	12.0	2	*	*
* 3600.0	7.8	198	2.5	20	13.6	12.1	4	*	*
* 3602.0	4.3	201	2.5	20	13.5	12.1	4	*	*
* 3604.0	5.1	189	2.5	19	13.5	12.0	4	*	*
* 3606.0	4.8	200	2.5	20	13.5	12.1	2	*	*
* 3608.0	4.6	217	2.5	20	14.3	13.1	2	*	*
* 3610.0			2.5	19	14.5	13.6		*	*
* 3612.0			2.5	20	13.9	13.0		*	*
* 3614.0			2.6	20	13.8	12.7		*	*
* 3616.0			2.6	19	14.0	12.8		*	*
* 3618.0			2.6	21	14.1	11.6		*	*
* 3620.0			2.6	24	13.3	9.3		*	*
* 3622.0			2.6	22	13.2	10.0		*	*
* 3624.0			2.6	20	14.0	12.2		*	*
* 3626.0			2.6	21	14.1	12.5		*	*
* 3628.0			2.6	23	14.1	12.4		*	*
* 3630.0	12.4	80	2.6	23	14.0	12.2	4	*	*
* 3632.0	13.3	83	2.6	22	13.5	11.7	4	*	*
* 3634.0	17.5	100	2.7	22	13.1	11.4	2	*	*
* 3636.0	13.0	99	2.7	21	13.0	11.4	4	*	*

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***** FORMATION *****				***** BOREHOLE *****				***** QUAL. *****	
***** INDEX *****								***** BEST *****	
DEPTH	DIP	DIP	DEV.	DEV.	DIAM	DIAM	BEST		
		AZI.		AZI.	1-3	2-4	=4		
* 3728.0	6.6	177	2.5	21	11.5	13.0	4	*	*
* 3730.0	7.6	176	2.5	21	12.1	13.7	3	*	*
* 3732.0	7.0	157	2.5	20	12.4	14.2	1	*	*
* 3734.0			2.5	20	12.2	14.0		*	*
* 3736.0			2.5	19	12.4	14.4		*	*
* 3738.0			2.5	19	13.0	15.0		*	*
* 3740.0	8.1	232	2.5	18	13.1	14.7	1	*	*
* 3742.0	14.0	210	2.5	16	13.1	14.6	1	*	*
* 3744.0	13.0	160	2.5	15	12.6	14.4	1	*	*
* 3746.0			2.5	17	11.9	13.4		*	*
* 3748.0	2.0	137	2.5	17	11.8	12.7	1	*	*
* 3750.0			2.5	16	11.8	12.2		*	*
* 3752.0			2.5	16	11.8	12.1		*	*
* 3754.0			2.5	20	12.3	12.0		*	*
* 3756.0			2.5	23	13.5	12.8		*	*
* 3758.0			2.5	24	14.7	13.3		*	*
* 3760.0			2.5	28	14.9	13.2		*	*
* 3762.0			2.5	30	14.8	13.1		*	*
* 3764.0			2.5	29	14.3	12.8		*	*
* 3766.0			2.5	28	14.1	12.4		*	*
* 3768.0			2.5	28	14.0	12.2		*	*
* 3770.0	10.7	192	2.5	29	13.8	12.0	3	*	*
* 3772.0			2.6	30	13.9	12.0		*	*
* 3774.0			2.6	30	14.0	12.3		*	*
* 3776.0			2.6	29	14.0	12.1		*	*
* 3778.0	12.5	182	2.6	29	13.7	11.6	1	*	*
* 3780.0			2.6	29	13.5	11.4		*	*
* 3782.0			2.6	29	13.4	11.4		*	*
* 3784.0			2.6	29	12.9	11.3		*	*
* 3786.0	5.6	312	2.6	31	12.7	11.3	3	*	*
* 3788.0	6.9	299	2.6	31	12.9	11.4	3	*	*
* 3790.0	10.8	256	2.6	31	13.4	12.0	2	*	*
* 3792.0	11.9	316	2.6	30	13.7	12.3	2	*	*
* 3794.0	11.6	352	2.6	30	13.8	12.3	4	*	*
* 3796.0	11.5	349	2.6	29	14.0	12.6	4	*	*
* 3798.0	9.9	284	2.6	30	13.9	12.7	4	*	*
* 3800.0	12.3	300	2.6	30	14.0	12.6	4	*	*
* 3802.0	14.9	314	2.6	27	13.9	12.2	4	*	*
* 3804.0	8.3	180	2.6	26	13.5	11.7	1	*	*
* 3806.0	8.6	170	2.6	28	13.4	11.6	3	*	*
* 3808.0	8.3	188	2.6	30	13.6	11.9	1	*	*
* 3810.0			2.6	31	14.1	12.9		*	*
* 3812.0	28.0	330	2.6	31	14.6	13.6	1	*	*
* 3814.0	14.0	339	2.6	29	14.5	13.2	1	*	*
* 3816.0			2.6	28	14.2	12.7		*	*



*****									
* #	* FORMATION *			* BOREHOLE *			* QUAL. *		
* #	* ----- * INDEX *								
* DEPTH *	* DIP	DIP	* DEV.	DEV.	DIAM	DIAM	* BEST *		
* #	* #	AZI.	* #	AZI.	1-3	2-4	* # =4 *		
*****									
* 3908.0	14.9	280		2.9	30	13.6	14.3	4	*
* 3910.0				2.9	33	12.8	14.2		*
* 3912.0				2.8	33	12.7	14.2		*
* 3914.0				2.8	30	12.2	13.9		*
* 3916.0				2.7	28	11.7	13.5		*
* 3918.0				2.8	26	11.8	13.5		*
* 3920.0				2.8	26	12.3	13.7		*
* 3922.0				2.8	27	12.7	14.0		*
* 3924.0				2.9	27	13.1	14.5		*
* 3926.0				3.0	28	13.0	14.4		*
* 3928.0				2.9	29	13.1	14.2		*
* 3930.0	8.7	200		2.7	27	14.1	14.9	1	*
* 3932.0	4.6	159		2.6	26	13.4	14.6	3	*
* 3934.0	8.9	209		2.7	27	12.0	13.7	1	*
* 3936.0				2.8	27	11.7	13.5		*
* 3938.0				2.8	27	11.5	13.2		*
* 3940.0	6.5	151		2.8	26	11.4	13.1	3	*
* 3942.0	6.5	219		2.8	27	11.4	13.0	1	*
* 3944.0	5.3	177		2.8	27	11.4	13.0	1	*
* 3946.0	3.7	128		2.8	27	11.4	12.9	1	*
* 3948.0				2.8	27	11.5	12.9		*
* 3950.0				2.8	26	11.5	12.9		*
* 3952.0				2.9	25	11.5	12.8		*
* 3954.0				2.9	27	12.7	12.8		*
* 3956.0				2.9	28	13.6	13.0		*
* 3958.0				2.9	28	13.7	13.3		*
* 3960.0				3.0	29	14.0	13.5		*
* 3962.0	17.3	150		2.9	26	13.9	13.6	1	*
* 3964.0	19.1	151		2.9	24	13.1	13.7	3	*
* 3966.0				2.8	24	12.6	13.8		*
* 3968.0				2.8	24	12.8	13.9		*
* 3970.0				2.8	23	12.2	13.6		*
* 3972.0				2.9	26	11.6	13.1		*
* 3974.0	0.4	320		2.9	28	11.5	12.9	2	*
* 3976.0	0.9	350		2.9	28	11.5	12.9	2	*
* 3978.0	3.8	302		2.8	29	11.5	12.7	4	*
* 3980.0	3.0	317		2.8	29	11.4	12.7	4	*
* 3982.0	3.4	266		2.8	28	11.5	12.7	4	*
* 3984.0	1.7	330		2.8	27	11.3	12.6	4	*
* 3986.0	3.9	360		2.7	27	11.2	12.4	4	*
* 3988.0	1.2	15		2.7	26	11.3	12.4	4	*
* 3990.0				2.8	25	11.5	12.6		*
* 3992.0	10.3	222		2.9	25	11.6	12.6	1	*
* 3994.0	12.2	236		2.9	26	12.7	13.2	3	*
* 3996.0	11.0	240		3.0	25	14.0	13.9	3	*

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*          *      FORMATION      *          BOREHOLE          *      QUAL.      *
*          *-----*-----*          *          *          *      INDEX      *
*  DEPTH  *  DIP    DIP    *  DEV.  DEV.  DIAM  DIAM  *  BEST  *
*          *          AZI.  *          AZI.  1-3  2-4  *  =4    *
*****
* 3998.0  14.9    218    *  3.0  27   14.5  13.9  *  1     *
* 4000.0          *  3.0  30   14.2  14.1  *       *
* 4002.0  9.9     235    *  3.0  29   14.1  14.5  *  1     *
* 4004.0  14.0    220    *  3.1  29   14.1  14.3  *  1     *
* 4006.0  9.4     218    *  3.5  30   14.0  14.3  *  1     *
* 4008.0          *  3.6  27   13.8  13.9  *       *
* 4010.0          *  3.2  23   13.3  13.5  *       *
* 4012.0          *  3.0  27   13.3  13.5  *       *
* 4014.0          *  3.0  31   14.1  13.7  *       *
* 4016.0          *  3.0  31   14.0  13.6  *       *
* 4018.0          *  3.0  30   12.6  13.3  *       *
* 4020.0          *  3.0  30   11.5  13.0  *       *
* 4022.0          *  3.0  30   11.3  12.8  *       *
* 4024.0          *  3.0  30   11.2  12.6  *       *
* 4026.0          *  3.0  31   11.2  12.5  *       *
* 4028.0          *  3.0  31   11.3  12.6  *       *
* 4030.0          *  3.0  30   11.5  12.8  *       *
* 4032.0          *  3.0  28   11.5  13.0  *       *
* 4034.0          *  2.9  27   11.2  12.9  *       *
* 4036.0  11.7    208    *  2.9  25   10.8  12.7  *  4     *
* 4038.0  10.9    216    *  2.9  25   10.8  12.8  *  4     *
* 4040.0  9.0     206    *  2.9  25   11.0  12.9  *  4     *
* 4042.0  7.2     214    *  2.9  24   11.0  12.8  *  4     *
* 4044.0  12.7    220    *  2.9  23   11.1  12.7  *  4     *
* 4046.0  11.5    230    *  2.9  25   11.1  12.6  *  4     *
* 4048.0  9.2     210    *  2.8  26   11.2  12.7  *  4     *
* 4050.0  9.6     190    *  2.9  25   11.4  12.9  *  4     *
* 4052.0  12.5    175    *  3.0  25   11.4  13.1  *  4     *
* 4054.0  9.2     206    *  3.0  25   11.2  12.9  *  4     *
* 4056.0  9.4     217    *  3.0  26   11.1  12.6  *  4     *
* 4058.0  10.3    212    *  3.1  26   11.2  12.7  *  4     *
* 4060.0          *  3.4  25   11.5  12.9  *       *
* 4062.0  12.1    142    *  3.7  26   11.9  13.5  *  2     *
* 4064.0  11.7    150    *  3.4  25   13.6  14.9  *  2     *
* 4066.0  10.7    138    *  3.0  24   14.5  15.1  *  2     *
* 4068.0  12.9    204    *  3.0  28   13.8  14.5  *  2     *
* 4070.0          *  3.0  26   13.7  14.8  *       *
* 4072.0          *  2.9  24   13.7  14.8  *       *
* 4074.0  17.4    180    *  2.9  25   13.5  14.4  *  1     *
* 4076.0  10.4    172    *  3.0  25   13.8  14.1  *  1     *
* 4078.0  10.6    214    *  3.0  24   13.6  13.9  *  1     *
* 4080.0  7.8     182    *  3.0  26   12.8  13.8  *  1     *
* 4082.0  11.8    215    *  3.0  29   12.7  13.6  *  1     *
* 4084.0  8.5     172    *  3.1  29   12.4  13.4  *  3     *
* 4086.0  15.8    161    *  3.2  29   12.2  13.3  *  3     *
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*****									
* FORMATION *					* BOREHOLE *		* GUAL. *		
*****									
* DEPTH *	* DIP	* DIP	* DEV.	* DEV.	* DIAM	* DIAM	* BEST	* INDEX *	
		AZI.		AZI.	1-3	2-4	=4		
*****									
* 4088.0	10.5	185	3.3	31	12.2	13.3	3	*	
* 4090.0			3.6	30	12.9	13.4		*	
* 4092.0			3.4	26	14.6	14.3		*	
* 4094.0			3.0	24	15.3	15.4		*	
* 4096.0			3.0	26	14.3	15.3		*	
* 4098.0			3.0	27	14.0	15.0		*	
* 4100.0			3.0	28	14.3	15.2		*	
* 4102.0			3.0	26	15.1	15.2		*	
* 4104.0			3.0	25	14.8	15.1		*	
* 4106.0			3.1	26	13.4	14.3		*	
* 4108.0			3.2	28	14.0	14.3		*	
* 4110.0	13.2	242	3.2	31	14.8	15.1	2	*	
* 4112.0	11.7	209	3.2	31	13.7	14.9	4	*	
* 4114.0	10.0	190	3.2	32	12.8	14.6	2	*	
* 4116.0			3.2	30	12.9	14.6		*	
* 4118.0	3.0	262	3.2	29	12.7	14.6	4	*	
* 4120.0	4.6	207	3.2	29	12.1	14.3	4	*	
* 4122.0	8.5	247	3.1	29	12.1	14.2	4	*	
* 4124.0	8.6	225	3.1	29	12.1	14.2	4	*	
* 4126.0	8.8	199	3.1	29	12.2	14.2	4	*	
* 4128.0	10.2	197	3.1	29	12.2	14.3	4	*	
* 4130.0	8.8	214	3.0	27	12.1	14.3	4	*	
* 4132.0	9.9	204	3.0	26	12.0	14.2	4	*	
* 4134.0	5.8	194	3.1	25	12.1	14.2	4	*	
* 4136.0	6.2	200	3.1	26	12.1	14.0	4	*	
* 4138.0	9.9	159	3.0	25	12.2	14.0	4	*	
* 4140.0	10.2	166	3.0	23	13.2	14.4	6	*	
* 4142.0	14.4	181	3.1	22	13.9	14.6	4	*	
* 4144.0	7.8	173	3.2	24	13.6	14.5	4	*	
* 4146.0	7.0	169	3.1	25	12.8	14.6	4	*	
* 4148.0	8.0	176	3.1	25	12.4	14.6	4	*	
* 4150.0	11.3	184	3.1	25	12.2	14.5	3	*	
* 4152.0			3.1	25	12.0	14.4		*	
* 4154.0			3.1	24	11.7	14.3		*	
* 4156.0	12.6	201	3.1	24	11.6	14.2	3	*	
* 4158.0	12.0	201	3.2	26	11.7	14.1	3	*	
* 4160.0	12.9	186	3.2	28	11.7	14.0	1	*	
* 4162.0	12.1	206	3.2	29	11.8	14.0	3	*	
* 4164.0	14.4	212	3.1	29	11.8	13.9	1	*	
* 4166.0			3.0	27	11.4	13.5		*	
* 4168.0			3.0	25	11.3	13.4		*	
* 4170.0			3.0	24	11.7	13.7		*	
* 4172.0	20.1	164	3.0	24	11.9	14.0	1	*	
* 4174.0	8.7	231	3.0	22	12.1	14.2	4	*	
* 4176.0	11.5	200	3.1	22	12.1	14.3	4	*	
*****									



*****									
* FORMATION *					* BOREHOLE		* QUAL. *		
*****									
* DEPTH *	* DIP	DIP	* DEV.	DEV.	DIA1	DIA2	* BEST	* INDEX *	
		AZI.		AZI.	1-3	2-4		* =4 *	
*****									
* 4268.0	8.1	185	3.6	14	12.6	13.2	4	*	
* 4270.0			3.5	13	12.4	13.3		*	
* 4272.0	15.7	148	3.4	12	12.2	13.2	1	*	
* 4274.0	9.2	170	3.4	12	11.9	13.1	1	*	
* 4276.0	11.8	208	3.4	13	11.8	12.8	1	*	
* 4278.0	12.7	173	3.4	13	11.7	12.6	1	*	
* 4280.0	7.4	154	3.4	13	11.6	12.6	3	*	
* 4282.0	10.6	171	3.4	14	11.6	12.8	3	*	
* 4284.0	8.2	175	3.4	14	11.7	13.0	3	*	
* 4286.0	9.5	149	3.4	16	12.1	13.1	1	*	
* 4288.0	10.7	155	3.4	16	13.2	13.3	1	*	
* 4290.0	16.5	178	3.4	15	13.7	13.8	4	*	
* 4292.0	17.4	173	3.3	16	13.5	14.4	2	*	
* 4294.0			3.2	14	13.0	14.3		*	
* 4296.0	3.7	178	3.2	12	12.3	13.5	2	*	
* 4298.0	9.9	145	3.3	13	11.5	12.8	4	*	
* 4300.0	14.9	147	3.3	14	11.6	13.0	4	*	
* 4302.0	7.5	141	3.4	13	12.1	13.5	4	*	
* 4304.0	4.8	164	3.4	12	12.2	13.5	4	*	
* 4306.0	15.5	154	3.5	11	12.2	13.4	2	*	
* 4308.0	23.0	148	3.5	11	12.5	13.5	2	*	
* 4310.0	21.5	198	3.5	12	12.8	13.6	1	*	
* 4312.0	19.9	198	3.4	13	12.6	13.7	3	*	
* 4314.0			3.4	12	12.1	13.5		*	
* 4316.0			3.4	13	12.1	13.5		*	
* 4318.0			3.6	14	12.1	13.4		*	
* 4320.0			3.6	14	12.2	13.4		*	
* 4322.0	18.2	203	3.6	14	12.4	13.5	1	*	
* 4324.0	24.3	194	3.7	13	12.7	13.8	1	*	
* 4326.0			3.7	12	13.5	14.7		*	
* 4328.0			3.7	13	14.1	15.3		*	
* 4330.0	7.9	179	3.5	14	14.0	15.1	1	*	
* 4332.0	13.0	180	3.5	14	13.9	14.9	3	*	
* 4334.0	13.2	179	3.5	14	13.9	14.9	3	*	
* 4336.0	14.5	156	3.6	13	14.0	14.9	3	*	
* 4338.0	17.2	155	3.6	12	14.1	16.1	3	*	
* 4340.0			3.7	12	13.7	17.1		*	
* 4342.0	4.5	256	3.7	13	13.4	16.5	1	*	
* 4344.0			3.8	14	13.5	15.3		*	
* 4346.0	5.3	104	3.8	14	13.5	14.8	1	*	
* 4348.0	12.0	173	3.7	14	13.4	14.7	3	*	
* 4350.0	9.6	219	3.8	13	13.4	14.6	4	*	
* 4352.0	11.6	245	3.8	13	13.5	14.4	4	*	
* 4354.0	12.4	248	3.8	13	13.1	14.2	4	*	
* 4356.0			3.8	13	12.7	14.0		*	

*****							
* FORMATION *	* BOREHOLE			* QUAL. *	* INDEX *		
* DEPTH *	* DIP	DIP	* DEV.	DEV.	DIAM	DIAM	* BEST *
* * *	* * *	AZI.	* * *	AZI.	1-3	2-4	* =4 *
*****							
* 4358.0	3.5	223	3.8	14	12.6	14.0	2 *
* 4360.0	7.0	170	3.7	13	12.8	14.1	2 *
* 4362.0	6.4	176	3.7	14	13.3	14.5	4 *
* 4364.0	6.2	217	3.5	13	13.5	15.0	4 *
* 4366.0			3.4	11	12.9	14.5	* *
* 4368.0			3.4	11	12.0	13.8	* *
* 4370.0	2.5	317	3.4	12	11.0	13.3	2 *
* 4372.0	3.9	248	3.4	12	10.5	13.3	4 *
* 4374.0	1.1	10	3.4	11	11.2	13.7	4 *
* 4376.0	15.7	208	3.4	12	11.8	13.9	3 *
* 4378.0	10.2	307	3.5	13	11.7	13.8	2 *
* 4380.0	8.4	267	3.6	13	11.5	13.7	4 *
* 4382.0	3.5	273	3.6	13	11.6	13.8	2 *
* 4384.0	6.4	250	3.6	13	11.9	13.9	2 *
* 4386.0	6.5	348	3.6	13	12.0	13.9	4 *
* 4388.0	8.6	351	3.6	14	12.2	13.9	4 *
* 4390.0	8.7	172	3.6	15	12.2	14.0	1 *
* 4392.0	15.0	149	3.6	14	12.4	14.1	1 *
* 4394.0	6.2	217	3.5	12	12.6	14.2	3 *
* 4396.0	5.8	210	3.5	12	13.2	14.7	3 *
* 4398.0	8.0	216	3.5	12	13.5	15.1	3 *
* 4400.0	7.6	196	3.5	12	13.2	14.9	1 *
* 4402.0	22.4	148	3.5	11	12.4	14.7	1 *
* 4404.0			3.4	11	12.2	14.9	* *
* 4406.0	6.3	297	3.4	11	12.7	15.1	1 *
* 4408.0	3.4	211	3.5	10	12.5	14.8	1 *
* 4410.0			3.6	10	12.1	14.5	* *
* 4412.0			3.6	11	11.9	14.3	* *
* 4414.0			3.7	11	11.9	14.2	* *
* 4416.0	5.5	112	3.7	11	11.9	14.1	1 *
* 4418.0	3.7	191	3.7	11	11.9	14.1	1 *
* 4420.0	9.3	179	3.7	11	11.9	13.9	1 *
* 4422.0	0.8	205	3.7	12	11.9	13.9	3 *
* 4424.0	0.3	257	3.6	11	12.2	14.1	3 *
* 4426.0	4.6	241	3.5	10	12.2	14.1	1 *
* 4428.0	5.2	162	3.5	10	12.1	14.1	3 *
* 4430.0	10.8	217	3.5	9	12.2	14.3	3 *
* 4432.0	12.9	220	3.5	9	12.5	14.6	1 *
* 4434.0	10.9	231	3.4	11	13.4	15.5	3 *
* 4436.0	9.7	273	3.5	12	14.0	16.1	3 *
* 4438.0			3.4	12	14.0	15.6	* *
* 4440.0	53.4	98	3.4	12	13.6	15.2	1 *
* 4442.0			3.5	12	12.9	14.9	* *
* 4444.0			3.6	12	12.5	14.7	* *
* 4446.0	46.7	103	3.6	12	12.8	14.8	3 *
*****							

*****									
* FORMATION *					* BOREHOLE		* QUAL. *		
*****									
* DEPTH *	* DIP	DIP	* DEV.	DEV.	DIAM	DIAM	* BEST	* INDEA *	
* * *	* * *	AZI.	* * *	AZI.	1-3	2-4	* * *	* * *	
*****									
* 4448.0			3.7	13	13.7	15.0			
* 4450.0	12.5	204	3.8	13	13.6	14.8	1		
* 4452.0			3.8	12	13.1	14.5			
* 4454.0	14.0	200	3.8	12	13.8	14.7	1		
* 4456.0	11.3	195	3.8	12	14.4	15.5	1		
* 4458.0	18.2	261	3.7	11	13.6	15.3	3		
* 4460.0	15.2	213	3.7	10	12.6	14.5	1		
* 4462.0	8.0	185	3.7	10	12.4	14.4	3		
* 4464.0	5.9	135	3.6	10	13.2	14.7	1		
* 4466.0	6.2	188	3.6	10	13.5	14.8	3		
* 4468.0	7.6	201	3.5	10	13.7	15.4	3		
* 4470.0	4.4	210	3.5	10	13.3	15.5	1		
* 4472.0	8.1	211	3.6	9	12.5	14.8	1		
* 4474.0	11.0	226	3.6	9	12.3	14.6	3		
* 4476.0	10.9	224	3.6	11	13.1	14.7	3		
* 4478.0	7.9	226	3.6	12	13.3	14.8	1		
* 4480.0	6.4	216	3.6	13	12.2	14.3	3		
* 4482.0	10.5	195	3.7	11	11.0	13.6	1		
* 4484.0			3.7	11	11.2	13.6			
* 4486.0	16.7	225	3.7	12	12.6	14.2	1		
* 4488.0			3.6	12	13.1	14.4			
* 4490.0			3.6	10	13.0	14.4			
* 4492.0	6.2	199	3.6	11	12.9	14.4	1		
* 4494.0	10.2	189	3.6	11	13.0	14.5	1		
* 4496.0	10.4	165	3.5	10	13.2	14.7	3		
* 4498.0	8.2	169	3.4	11	13.3	14.8	3		
* 4500.0	8.7	175	3.4	13	13.2	14.6	3		
* 4502.0	6.9	235	3.4	11	12.2	13.9	1		
* 4504.0	15.2	192	3.5	9	12.0	13.6	1		
* 4506.0	14.7	188	3.6	9	12.8	14.1	1		
* 4508.0			3.6	10	13.0	14.6			
* 4510.0			3.6	10	13.1	14.6			
* 4512.0			3.6	9	12.6	14.0			
* 4514.0			3.7	10	12.1	13.7			
* 4516.0			3.7	11	12.3	13.8			
* 4518.0			3.7	12	13.0	14.1			
* 4520.0			3.6	12	12.9	14.0			
* 4522.0			3.5	11	12.5	13.8			
* 4524.0			3.4	9	12.2	13.7			
* 4526.0			3.3	9	11.3	13.3			
* 4528.0			3.3	10	11.7	13.2			
* 4530.0	15.3	178	3.4	10	13.4	14.4	2		
* 4532.0	13.2	212	3.4	9	14.3	15.1	2		
* 4534.0	12.6	175	3.5	9	14.1	14.8	2		
* 4536.0			3.6	9	13.1	14.5			

*****									
* FORMATION *					BOREHOLE		* QUAL. *		
* ----- * INDEX *									
* DEPTH *	* DIP	DIP	* DEV.	DEV.	DIAM	DIAM	* BEST *		
* * *	* * *	AZI.	* * *	AZI.	1-3	2-4	* =4 *		
*****									
* 4538.0			3.6	10	12.5	14.3			*
* 4540.0	12.7	174	3.6	10	11.9	14.1	4		*
* 4542.0	12.6	179	3.7	10	11.2	13.6	4		*
* 4544.0	13.1	215	3.7	11	11.7	13.6	4		*
* 4546.0	10.8	213	3.6	12	12.9	14.3	4		*
* 4548.0			3.6	12	12.9	14.5			*
* 4550.0			3.6	10	12.6	14.3			*
* 4552.0	15.2	183	3.6	9	13.4	14.7	1		*
* 4554.0	16.7	224	3.5	10	14.2	14.9	1		*
* 4556.0			3.4	10	13.9	14.6			*
* 4558.0	25.4	206	3.4	10	12.5	14.1	1		*
* 4560.0	18.5	206	3.4	11	11.2	13.6	3		*
* 4562.0	13.8	191	3.5	12	11.1	13.6	3		*
* 4564.0	12.8	189	3.5	9	12.5	14.1	3		*
* 4566.0	11.9	219	3.4	9	13.1	14.5	1		*
* 4568.0	19.9	229	3.4	11	12.8	14.2	1		*
* 4570.0	21.0	227	3.5	8	12.3	14.1	2		*
* 4572.0			3.5	6	11.5	14.0			*
* 4574.0	10.8	205	3.5	9	11.5	13.9	4		*
* 4576.0	10.2	229	3.5	11	11.9	14.0	4		*
* 4578.0	11.7	211	3.5	11	12.1	14.1	4		*
* 4580.0	14.4	201	3.6	10	12.2	14.1	4		*
* 4582.0	3.9	250	3.6	9	12.1	14.1	2		*
* 4584.0	19.7	198	3.6	7	12.2	14.0	2		*
* 4586.0	12.0	202	3.5	6	12.3	14.0	4		*
* 4588.0	9.2	189	3.5	8	12.8	14.0	4		*
* 4590.0			3.5	10	15.1	14.2			*
* 4592.0			3.6	12	16.0	14.3			*
* 4594.0			3.6	13	15.4	14.3			*
* 4596.0			3.7	9	14.6	14.6			*
* 4598.0			3.6	6	14.6	15.2			*
* 4600.0			3.4	9	14.0	15.0			*
* 4602.0			3.4	10	13.1	14.6			*
* 4604.0			3.4	10	13.7	15.0			*
* 4606.0			3.5	10	13.9	15.1			*
* 4608.0			3.5	8	13.2	14.7			*
* 4610.0			3.6	8	13.1	14.6			*
* 4612.0			3.6	8	13.4	14.6			*
* 4614.0			3.7	7	14.0	14.7			*
* 4616.0			3.8	8	14.3	14.7			*
* 4618.0			3.7	8	14.3	14.7			*
* 4620.0			3.7	8	14.2	14.7			*
* 4622.0			3.6	7	14.3	14.6			*
* 4624.0	7.9	165	3.7	7	14.3	14.7	3		*
* 4626.0	10.2	167	3.7	7	14.3	14.8	3		*
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* FORMATION *					* BOREHOLE		* QUAL. *		
*****									
* DEPTH *	* DIP	DIP	* DEV.	DEV.	DIAM	DIAM	* BEST	* INDEX *	
* * *	* * *	AZI.	* * *	AZI.	1-3	2-4	* * *	* * *	
*****									
* 4628.0	4.4	171	3.6	9	14.2	14.7	1	*	
* 4630.0	5.1	211	3.6	9	14.1	14.8	3	*	
* 4632.0	3.8	243	3.6	9	14.0	14.9	3	*	
* 4634.0			3.5	10	14.1	15.1		*	
* 4636.0	5.2	138	3.5	10	14.1	15.1	1	*	
* 4638.0			3.5	7	14.2	15.3		*	
* 4640.0			3.6	7	14.6	15.3		*	
* 4642.0			3.6	6	14.9	15.4		*	
* 4644.0			3.7	4	14.8	15.1		*	
* 4646.0			3.8	5	14.0	14.4		*	
* 4648.0	3.6	213	3.8	7	13.6	13.9	1	*	
* 4650.0	6.9	163	3.8	10	14.0	13.8	3	*	
* 4652.0	6.4	167	3.7	9	14.0	13.7	3	*	
* 4654.0			3.6	7	13.2	13.1		*	
* 4656.0	9.6	105	4.5	9	13.7	13.9	1	*	
* 4658.0			3.3	11	14.7	15.7		*	
* 4660.0			3.2	11	14.4	15.5		*	
* 4662.0			3.2	12	14.0	13.9		*	
* 4664.0			3.2	13	14.1	12.5		*	
* 4666.0			3.2	13	14.1	12.0		*	
* 4668.0	10.6	215	3.2	14	14.0	11.9	3	*	
* 4670.0	10.6	226	3.2	14	13.6	11.5	3	*	
* 4672.0	21.2	229	3.2	13	13.1	11.0	1	*	
* 4674.0	20.2	229	3.3	13	12.7	10.6	1	*	
* 4676.0	13.4	243	3.4	11	12.8	10.8	3	*	
* 4678.0	12.7	239	3.3	11	12.7	10.9	3	*	
* 4680.0			3.2	12	12.5	10.6		*	
* 4682.0	16.8	236	3.2	9	12.4	10.4	1	*	
* 4684.0	25.2	198	3.2	9	12.3	10.5	1	*	
* 4686.0	12.7	192	3.2	12	12.1	10.6	1	*	
* 4688.0	11.9	231	3.2	12	11.9	10.7	3	*	
* 4690.0			3.2	12	11.8	10.8		*	
* 4692.0	8.4	119	3.1	15	11.9	11.4	1	*	
* 4694.0			3.1	19	11.8	12.0		*	
* 4696.0			3.1	22	11.3	12.0		*	
* 4698.0			3.1	20	11.8	12.3		*	
* 4700.0			3.1	19	12.9	12.5		*	
* 4702.0	9.2	52	3.2	19	13.1	12.3	3	*	
* 4704.0	9.3	55	3.2	17	13.0	12.2	3	*	
* 4706.0			3.2	18	12.8	12.0		*	
* 4708.0			3.3	17	12.6	11.8		*	
* 4710.0			3.3	15	12.5	11.7		*	
* 4712.0			3.3	14	12.5	11.7		*	
* 4714.0			3.3	12	12.7	11.9		*	
* 4716.0			3.2	12	12.8	12.1		*	
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* FORMATION *	* BOREHOLE *						* QUAL. *	* INDEX *	
* DEPTH *	* DIP *	DIP	* DEV. *	DEV.	DIAM	DIAM	* BEST *	* #4 *	
		AZI.		AZI.	1-3	2-4			
*****									
* 4718.0			3.2	13	12.8	12.0			
* 4720.0			3.3	12	12.7	11.8			
* 4722.0			3.2	13	12.5	11.7			
* 4724.0			3.2	14	12.5	11.7			
* 4726.0			3.2	16	12.5	11.7			
* 4728.0			3.3	17	12.6	11.8			
* 4730.0	18.5	206	3.3	17	12.7	12.0	1		
* 4732.0	21.4	208	3.3	17	12.9	12.2	1		
* 4734.0	20.4	197	3.4	15	13.1	13.1	1		
* 4736.0			3.3	14	13.3	14.0			
* 4738.0	23.5	205	3.3	16	13.5	14.0	1		
* 4740.0	24.3	205	3.4	17	13.4	13.6	1		
* 4742.0	7.0	150	3.4	18	13.2	13.2	1		
* 4744.0	8.4	101	3.5	18	13.4	13.5	1		
* 4746.0	6.7	144	3.4	19	13.1	13.9	1		
* 4748.0	6.3	80	3.4	19	13.5	14.1	1		
* 4750.0	4.3	215	3.4	17	14.8	14.9	1		
* 4752.0	3.5	269	3.4	17	15.0	15.3	1		
* 4754.0	12.3	235	3.4	17	14.0	14.5	1		
* 4756.0	4.2	243	3.4	20	13.3	13.8	3		
* 4758.0	4.9	236	3.4	21	13.1	13.5	3		
* 4760.0	10.4	217	3.4	21	13.2	13.4	3		
* 4762.0	3.6	56	3.4	20	13.3	13.4	1		
* 4764.0	15.1	284	3.5	22	14.0	13.9	3		
* 4766.0	27.1	295	3.5	22	14.3	14.4	3		
* 4768.0			3.5	17	14.1	14.5			
* 4770.0	7.9	226	3.5	16	13.6	13.8	1		
* 4772.0	9.3	292	3.4	18	13.1	13.3	1		
* 4774.0	8.3	262	3.3	19	13.0	13.2	3		
* 4776.0	12.5	269	3.2	18	13.0	13.3	3		
* 4778.0			3.2	19	12.3	13.2			
* 4780.0			3.1	22	11.3	12.9			
* 4782.0			3.1	26	10.7	12.4			
* 4784.0			3.0	26	9.3	11.0			
* 4786.0			3.1	26	8.8	10.2			
* 4788.0			3.2	25	9.6	11.0			
* 4790.0			3.3	22	11.5	12.8			
* 4792.0			3.4	20	13.6	13.8			
* 4794.0	20.3	192	3.4	19	14.7	14.1	2		
* 4796.0	14.2	220	3.4	17	14.3	13.9	4		
* 4798.0	15.0	204	3.4	17	13.3	13.5	4		
* 4800.0			3.3	19	12.2	13.1			
* 4802.0	16.1	214	3.3	17	11.7	12.7	4		
* 4804.0	14.6	189	3.3	17	11.4	12.5	4		
* 4806.0	10.8	211	3.2	18	11.5	12.7	4		

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* * * * *	* FORMATION *			* BOREHOLE *			* QUAL. *	
* * * * *	-----							* INDEX *
* DEPTH *	DIP	DIP	DEV.	DEV.	DIAM	DIAM	BEST	
* * * * *	* * * * *	AZI.	* * * * *	AZI.	1-3	2-4	* =4 *	
*****								
* 4808.0	12.2	198	3.2	19	11.5	12.8	4 *	
* 4810.0	9.8	191	3.2	20	11.7	13.1	4 *	
* 4812.0	9.9	202	3.2	21	12.0	13.4	4 *	
* 4814.0	23.3	272	3.1	21	12.1	13.5	3 *	
* 4816.0	19.2	265	3.0	22	11.8	13.3	1 *	
* 4818.0	13.0	227	3.0	22	11.2	13.1	4 *	
* 4820.0	13.8	209	3.0	21	10.8	12.9	4 *	
* 4822.0	16.8	214	3.0	21	10.5	12.7	4 *	
* 4824.0	14.8	247	3.1	20	10.4	12.2	2 *	
* 4826.0	10.3	211	3.2	19	10.4	11.9	4 *	
* 4828.0	10.9	190	3.2	20	10.5	11.8	4 *	
* 4830.0	9.0	245	3.2	21	10.5	11.7	4 *	
* 4832.0	8.3	244	3.1	21	10.6	11.8	4 *	
* 4834.0	5.2	216	3.0	21	10.6	11.8	4 *	
* 4836.0	2.4	151	3.0	19	10.9	12.2	4 *	
* 4838.0	5.4	174	3.0	16	11.5	12.9	4 *	
* 4840.0	13.0	157	3.0	16	11.6	13.3	2 *	
* 4842.0	18.3	225	3.0	17	11.3	13.3	2 *	
* 4844.0	16.5	238	3.0	17	11.3	13.3	2 *	
* 4846.0	1.2	41	3.0	16	11.2	13.4	2 *	
* 4848.0	9.3	214	3.0	16	11.1	13.4	4 *	
* 4850.0			3.0	16	11.1	13.3	4 *	
* 4852.0			3.0	15	10.9	13.2	4 *	
* 4854.0			3.0	15	10.6	12.9	4 *	
* 4856.0	21.6	139	3.0	14	10.6	12.8	1 *	
* 4858.0	20.9	146	3.0	11	10.9	12.8	3 *	
* 4860.0			3.0	12	11.1	12.4	4 *	
* 4862.0			3.0	16	10.5	10.6	4 *	
* 4864.0			3.0	19	9.5	8.8	4 *	
* 4866.0			3.0	18	9.5	9.0	4 *	
* 4868.0			3.0	17	11.0	10.8	4 *	
* 4870.0			3.0	17	13.3	12.9	4 *	
* 4872.0			3.0	14	15.0	13.4	4 *	
* 4874.0			3.0	13	15.5	13.1	4 *	
* 4876.0			3.0	13	14.5	13.1	4 *	
* 4878.0			3.0	12	14.5	13.2	4 *	
* 4880.0			3.1	13	15.3	12.3	4 *	
* 4882.0			3.1	13	15.8	11.5	4 *	
* 4884.0			3.1	9	15.2	12.1	4 *	
* 4886.0			3.1	11	14.3	12.7	4 *	
* 4888.0			3.1	15	14.2	13.5	4 *	
* 4890.0	0.3	285	3.1	13	14.2	13.5	3 *	
* 4892.0	3.8	297	3.1	11	12.6	11.4	1 *	
* 4894.0			3.1	10	10.3	9.0	4 *	
* 4896.0			3.1	9	10.8	9.3	4 *	



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*          *   FURNATION   *           BOREHOLE           * QUAL. *
*          *-----*-----*-----*-----*-----*-----*-----*
* DEPTH  *   DIP   DIP   *   DEV.   DEV.   DIAM   DIAM * BEST *
*          *       AZI. *       AZI.   1-3   2-4 *  #4  *
*****
* 4988.0          *         *         * 3.2   11   12.6   13.4 *
* 4990.0   2.8    83   * 3.2   12   12.3   13.3   1 *
* 4992.0   2.1    88   * 3.1   11   12.8   13.8   1 *
* 4994.0          *         *         * 3.1   11   13.4   14.6 *
* 4996.0          *         *         * 3.1   11   13.5   14.5 *
* 4998.0   4.0   138   * 3.1   11   13.5   14.6   1 *
* 5000.0  10.3   186   * 3.1   10   13.1   14.4   1 *
* 5002.0   8.3   226   * 3.1   10   12.3   13.6   1 *
* 5004.0   5.6   159   * 3.1   10   12.5   13.4   1 *
* 5006.0   5.5   148   * 3.1   11   12.7   13.6   1 *
* 5008.0  12.4   141   * 3.1   10   12.9   13.8   1 *
* 5010.0          *         *         * 3.1   9    12.6   13.6 *
* 5012.0          *         *         * 3.1   11   11.9   13.0 *
* 5014.0          *         *         * 3.1   13   11.9   12.8 *
* 5016.0          *         *         * 3.1   13   12.0   12.6 *
* 5018.0          *         *         * 3.1   12   12.2   12.8 *
* 5020.0          *         *         * 3.1   12   13.3   13.7 *
* 5022.0          *         *         * 3.1   12   13.5   14.0 *
* 5024.0          *         *         * 3.1   11   13.1   13.7 *
* 5026.0          *         *         * 3.1   11   13.0   13.8 *
* 5028.0          *         *         * 3.1   12   12.3   13.4 *
* 5030.0   3.6   174   * 3.1   13   11.4   12.7   2 *
* 5032.0  16.1   253   * 3.1   13   11.3   12.4   3 *
* 5034.0  15.0   272   * 3.1   12   11.3   12.4   3 *
* 5036.0   8.7   211   * 3.0   11   11.4   12.4   4 *
* 5038.0  10.8   208   * 3.0   9    11.5   12.5   4 *
* 5040.0  16.7   263   * 3.0   7    11.5   12.5   3 *
* 5042.0  17.6   249   * 3.0   8    11.4   12.6   3 *
* 5044.0   6.5   182   * 3.0   8    11.4   12.6   4 *
* 5046.0   6.7   169   * 3.0   9    11.4   12.7   4 *
* 5048.0   4.1   194   * 3.0   11   11.4   12.6   4 *
* 5050.0  10.2   176   * 3.0   12   11.7   12.6   4 *
* 5052.0  11.2   181   * 3.0   12   12.1   13.0   4 *
* 5054.0   8.4   144   * 3.0   12   12.3   13.2   2 *
* 5056.0   8.9   156   * 3.0   12   12.1   13.2   2 *
* 5058.0          *         *         * 3.0   13   11.7   13.3 *
* 5060.0   5.7   195   * 3.0   13   11.5   13.0   2 *
* 5062.0   7.5   169   * 3.0   13   11.4   12.7   2 *
* 5064.0   9.7   180   * 3.0   13   11.4   12.5   4 *
* 5066.0          *         *         * 3.0   13   11.5   12.5 *
* 5068.0   8.8   181   * 3.0   13   11.7   12.6   2 *
* 5070.0  10.0   207   * 3.0   12   13.3   13.4   3 *
* 5072.0  10.4   205   * 3.0   11   14.6   14.4   3 *
* 5074.0          *         *         * 3.0   10   13.8   14.5 *
* 5076.0          *         *         * 3.0   11   12.5   13.6 *
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*          *          *          *          *          *          *          *          *          *
*          *          *          *          *          *          *          *          *          *
*          *          *          *          *          *          *          *          *          *
*          *          *          *          *          *          *          *          *          *
*          *          *          *          *          *          *          *          *          *
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* DEPTH *	* DIP	* UIP	* DEV.	* DEV.	* DIAM	* DIAM	* BEST	* INDEX *
		AZI.		AZI.	1-3	2-4	=4	
* 5168.0	5.0	178	3.0	8	12.3	13.1	4	*
* 5170.0	7.6	57	3.0	8	12.6	13.1	4	*
* 5172.0	14.4	61	3.0	8	12.9	13.2	2	*
* 5174.0	6.3	104	3.0	8	13.1	13.3	2	*
* 5176.0	3.5	14	3.0	10	14.6	13.9	2	*
* 5178.0	2.5	35	3.0	11	16.2	14.8	2	*
* 5180.0	4.5	97	3.0	10	14.9	15.1	2	*
* 5182.0	9.1	85	3.0	8	14.5	15.3	4	*
* 5184.0	14.9	77	3.0	6	14.9	15.7	2	*
* 5186.0	14.5	119	3.0	7	14.5	15.4	2	*
* 5188.0			3.0	6	14.4	15.2		*
* 5190.0			3.0	6	14.5	15.4		*
* 5192.0			3.0	8	14.6	15.5		*
* 5194.0			3.0	8	15.2	15.6		*
* 5196.0			3.0	9	15.4	15.4		*
* 5198.0			3.0	10	15.2	15.2		*
* 5200.0			3.0	10	14.8	15.1		*
* 5202.0			3.0	7	14.8	15.1		*
* 5204.0			3.0	4	15.4	15.0		*
* 5206.0			3.0	6	15.5	14.5		*
* 5208.0			3.0	7	14.6	13.7		*
* 5210.0			3.0	9	13.7	12.7		*
* 5212.0			3.0	10	13.7	12.7		*
* 5214.0			3.0	11	13.5	12.7		*
* 5216.0			3.0	10	13.0	12.3		*
* 5218.0			3.0	10	12.7	12.1		*
* 5220.0	11.1	205	3.0	9	12.5	12.0	1	*
* 5222.0	12.6	208	3.0	9	12.5	12.0	1	*
* 5224.0	12.6	198	3.0	9	12.5	11.9	1	*
* 5226.0	5.3	6	3.0	8	12.2	11.7	1	*
* 5228.0	7.7	358	3.0	8	11.8	11.6	3	*
* 5230.0	12.1	193	3.0	9	11.2	11.4	3	*
* 5232.0	11.9	187	3.0	10	10.8	11.2	1	*
* 5234.0			3.0	12	11.4	11.7		*
* 5236.0			3.0	11	12.3	12.6		*
* 5238.0	9.1	231	3.0	9	12.4	12.9	1	*
* 5240.0			3.0	10	12.7	12.9		*
* 5242.0	4.3	248	3.0	10	13.4	13.3	3	*
* 5244.0	8.3	197	3.0	9	13.1	13.5	3	*
* 5246.0	6.4	217	3.0	9	12.7	13.4	3	*
* 5248.0	5.4	245	3.0	11	13.5	13.9	3	*
* 5250.0	4.1	155	3.0	11	13.8	14.0	1	*
* 5252.0	5.8	162	3.0	9	12.6	12.8	1	*
* 5254.0	9.9	275	3.0	11	12.2	12.1	1	*
* 5256.0	14.0	277	3.0	11	12.2	12.1	1	*

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*****									
* FORMATION *					* BOREHOLE		* QUAL. *		
*****									
* DEPTH *	* DIP	DIP	* DEV.	DEV.	DIAM	DIAM	* BEST	* INDEX *	
* * *	* * *	AZI.	* * *	AZI.	1-3	2-4	* =4	* * *	
*****									
* 5258.0	8.1	182	3.0	12	11.9	11.7	3	*	*
* 5260.0	8.1	193	3.0	14	11.4	11.2	3	*	*
* 5262.0			3.0	14	11.2	11.0		*	*
* 5264.0			3.0	15	11.4	11.2		*	*
* 5266.0			3.0	15	11.6	11.3		*	*
* 5268.0	14.2	268	3.0	14	11.6	11.3	3	*	*
* 5270.0	11.6	257	3.0	15	11.4	11.1	3	*	*
* 5272.0			3.0	16	11.1	10.9		*	*
* 5274.0			3.0	15	11.2	10.8		*	*
* 5276.0	6.7	298	3.0	14	11.3	10.9	1	*	*
* 5278.0	8.8	260	3.0	12	11.5	11.1	1	*	*
* 5280.0			3.0	13	12.9	12.1		*	*
* 5282.0			3.0	13	13.6	12.9		*	*
* 5284.0	4.7	210	3.0	11	13.0	12.7	1	*	*
* 5286.0	6.4	262	3.0	12	12.9	12.6	1	*	*
* 5288.0			3.0	14	13.2	13.1		*	*
* 5290.0	3.1	340	3.0	13	13.8	13.7	1	*	*
* 5292.0	5.7	343	3.0	11	13.5	13.6	1	*	*
* 5294.0	5.4	53	3.0	12	13.7	14.2	1	*	*
* 5296.0	3.9	53	3.0	10	14.0	14.8	1	*	*
* 5298.0	2.6	255	3.0	9	13.2	13.7	1	*	*
* 5300.0			3.0	11	12.4	12.3		*	*
* 5302.0			3.0	11	12.6	12.1		*	*
* 5304.0			3.0	9	13.4	13.1		*	*
* 5306.0	3.8	238	3.0	9	13.3	13.7	1	*	*
* 5308.0			3.1	10	12.7	13.4		*	*
* 5310.0	2.3	194	3.1	10	12.5	13.3	3	*	*
* 5312.0	1.8	23	3.1	11	14.0	14.6	3	*	*
* 5314.0	1.6	156	3.1	14	16.0	16.2	1	*	*
* 5316.0	27.2	90	3.1	13	15.5	15.8	3	*	*
* 5318.0	25.7	96	3.1	10	14.5	14.9	1	*	*
* 5320.0	26.2	86	3.1	10	14.8	15.0	1	*	*
* 5322.0	31.3	80	3.1	10	15.1	15.6	1	*	*
* 5324.0			3.1	10	15.3	15.8		*	*
* 5326.0			3.1	9	15.5	15.4		*	*
* 5328.0	5.8	7	3.1	11	14.8	14.7	1	*	*
* 5330.0	4.3	280	3.1	10	13.5	13.4	2	*	*
* 5332.0	48.4	349	3.1	10	12.9	12.7	1	*	*
* 5334.0			3.1	13	13.1	12.9		*	*
* 5336.0	9.7	193	3.1	13	13.3	13.3	4	*	*
* 5338.0	7.4	188	3.1	10	13.0	13.2	4	*	*
* 5340.0	17.8	193	3.1	10	12.7	12.8	2	*	*
* 5342.0	11.9	189	3.1	10	12.7	12.7	2	*	*
* 5344.0	12.9	180	3.1	10	12.6	12.7	4	*	*
* 5346.0	9.9	169	3.1	9	12.3	12.5	4	*	*
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*****									
* FORMATION *					* BOREHOLE *		* QUAL. *		
* DEPTH *	* DIP *	DIP	* DEV. *	DEV.	DIAM	DIAM	* INDEX *	* BEST *	
		AZI.		AZI.	1-3	2-4		* =4 *	
*****									
* 5438.0			3.2	11	14.8	14.8			
* 5440.0			3.2	12	15.2	15.3			
* 5442.0	7.7	215	3.2	9	14.7	14.0	1		
* 5444.0	10.5	231	3.2	8	14.5	13.4	3		
* 5446.0	11.9	227	3.2	9	15.3	14.5	3		
* 5448.0	14.9	220	3.2	9	15.2	14.8	1		
* 5450.0			3.2	9	13.7	13.7			
* 5452.0	20.2	275	3.2	7	13.0	13.2	1		
* 5454.0			3.2	6	13.0	13.0			
* 5456.0			3.2	8	12.9	12.5			
* 5458.0	19.7	238	3.2	10	12.9	12.5	3		
* 5460.0	18.7	244	3.2	10	13.0	12.7	3		
* 5462.0	20.9	244	3.2	9	13.0	12.8	3		
* 5464.0	25.8	226	3.2	9	12.8	12.6	1		
* 5466.0			3.2	9	12.4	12.2			
* 5468.0			3.2	9	12.0	11.9			
* 5470.0	21.8	353	3.2	8	12.5	12.4	1		
* 5472.0	19.8	357	3.2	8	13.0	13.2	1		
* 5474.0	27.6	115	3.2	8	13.1	13.2	3		
* 5476.0	30.0	118	3.2	6	13.6	13.7	1		
* 5478.0	24.2	108	3.2	6	14.4	15.9	1		
* 5480.0	15.7	354	3.3	10	14.4	16.6	1		
* 5482.0			3.3	10	13.9	15.5			
* 5484.0	23.9	347	3.3	6	13.7	14.6	1		
* 5486.0	20.2	350	3.3	8	14.0	14.2	3		
* 5488.0	9.1	184	3.3	12	15.2	14.6	2		
* 5490.0			3.3	12	16.3	15.7			
* 5492.0			3.3	11	15.7	15.6			
* 5494.0			3.3	11	14.3	14.0			
* 5496.0	12.0	172	3.3	11	13.2	12.7	4		
* 5498.0	7.6	202	3.3	11	12.9	12.3	4		
* 5500.0	9.5	201	3.3	11	12.8	12.1	4		
* 5502.0	10.9	159	3.3	11	12.8	12.0	4		
* 5504.0	5.2	190	3.3	11	12.8	11.9	4		
* 5506.0	5.1	194	3.3	11	12.9	11.9	4		
* 5508.0	5.9	195	3.3	10	12.9	11.9	4		
* 5510.0	9.8	236	3.3	9	12.9	12.0	4		
* 5512.0	11.5	221	3.3	9	12.9	12.2	4		
* 5514.0			3.3	10	13.0	12.2			
* 5516.0			3.3	358	13.0	12.0			
* 5518.0	17.2	230	3.3	359	13.0	11.7	2		
* 5520.0	10.4	243	3.3	10	13.1	11.6	2		
* 5522.0	8.6	236	3.3	10	13.3	11.7	4		
* 5524.0	12.3	181	3.3	11	13.4	11.7	4		
* 5526.0	7.8	245	3.4	12	13.3	11.6	2		

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* * * * *	* FORMATION *			* BOREHOLE *			* QUAL. *		
* * * * *	*****								
* DEPTH *	DIP	DIP	DEV.	DEV.	DIAM	DIAM	DIAM	DIAM	* BEST *
* * * * *	* * * * *	AZI.	* * * * *	AZI.	1-3	2-4	3-4	4-4	* * * * *
*****									
* 5528.0			3.4	8	13.8	13.0			*
* 5530.0			3.4	7	14.6	15.6			*
* 5532.0			3.4	8	14.5	14.6			*
* 5534.0			3.4	5	14.4	13.2			*
* 5536.0			3.4	5	14.5	12.9			*
* 5538.0			3.5	8	14.6	13.0			*
* 5540.0			3.5	9	14.8	13.6			*
* 5542.0			3.5	9	15.1	15.0			*
* 5544.0			3.5	10	15.8	15.8			*
* 5546.0			3.5	10	15.8	14.4			*
* 5548.0			3.6	7	15.3	13.5			*
* 5550.0			3.6	8	15.2	12.8			*
* 5552.0			3.5	10	15.2	12.2			*
* 5554.0			3.6	11	15.1	12.2			*
* 5556.0			3.6	9	14.9	12.2			*
* 5558.0			3.6	8	14.7	12.1			*
* 5560.0			3.6	9	14.5	11.9			*
* 5562.0			3.6	10	14.5	11.9			*
* 5564.0			3.5	8	14.5	11.9			*
* 5566.0			3.5	8	14.4	11.9			*
* 5568.0	5.1	55	3.4	9	14.3	11.8		1	*
* 5570.0			3.4	8	14.2	11.6			*
* 5572.0			3.4	8	14.0	11.6			*
* 5574.0			3.3	8	13.7	11.4			*
* 5576.0			3.3	8	13.4	11.3			*
* 5578.0			3.2	8	13.4	11.3			*
* 5580.0	6.9	74	3.2	9	13.4	11.1		3	*
* 5582.0	4.2	63	3.2	8	13.5	11.0		3	*
* 5584.0	4.4	76	3.1	7	13.5	11.0		3	*
* 5586.0	5.9	99	3.1	8	13.5	11.0		3	*
* 5588.0	3.6	135	3.0	9	13.4	11.0		4	*
* 5590.0	5.4	142	3.0	8	13.3	10.9		4	*
* 5592.0	6.8	142	3.0	8	13.3	10.9		4	*
* 5594.0	5.9	139	3.0	8	13.3	11.0		4	*
* 5596.0	8.2	100	3.0	7	13.4	11.1		4	*
* 5598.0	7.8	77	3.0	7	13.3	11.2		4	*
* 5600.0	21.3	39	3.0	6	13.2	11.1		3	*
* 5602.0	7.4	64	3.0	5	13.2	11.0		2	*
* 5604.0	14.1	38	3.0	3	13.0	11.0		3	*
* 5606.0	4.6	259	3.0	2	12.7	11.2		2	*
* 5608.0	8.0	13	3.1	7	12.5	11.8		1	*
* 5610.0			3.1	8	12.5	12.2			*
* 5612.0			3.2	7	12.5	13.0			*
* 5614.0	8.3	234	3.2	7	12.6	13.6		1	*
* 5616.0	5.7	234	3.2	9	14.4	14.6		1	*

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*          * FORMATION *          * BOREHOLE *          * QUAL. *
*          *-----*          *-----*          * INDEX *
* DEPTH *  *  *  *  *  *  *  *  *  *  *  *  *  *  *  *  *  *  *  *
*          *  *  *  *  *  *  *  *  *  *  *  *  *  *  *  *  *  *  *
*****
* 5618.0          *          *          *          *          *          *          *
* 5620.0          *          *          *          *          *          *          *
* 5622.0          *          *          *          *          *          *          *
* 5624.0          *          *          *          *          *          *          *
* 5626.0  10.1    * 191    *          *          *          *          *          *
* 5628.0  57.9    * 306    *          *          *          *          *          *
* 5630.0          *          *          *          *          *          *          *
* 5632.0          *          *          *          *          *          *          *
* 5634.0          *          *          *          *          *          *          *
* 5636.0          *          *          *          *          *          *          *
* 5638.0          *          *          *          *          *          *          *
* 5640.0          *          *          *          *          *          *          *
* 5642.0          *          *          *          *          *          *          *
* 5644.0          *          *          *          *          *          *          *
* 5646.0          *          *          *          *          *          *          *
* 5648.0          *          *          *          *          *          *          *
* 5650.0          *          *          *          *          *          *          *
* 5652.0  7.5     * 95     *          *          *          *          *          *
* 5654.0  14.5    * 114    *          *          *          *          *          *
* 5656.0  8.8     * 110    *          *          *          *          *          *
* 5658.0  10.2    * 116    *          *          *          *          *          *
* 5660.0          *          *          *          *          *          *          *
* 5662.0          *          *          *          *          *          *          *
* 5664.0          *          *          *          *          *          *          *
* 5666.0  15.3    * 117    *          *          *          *          *          *
* 5668.0          *          *          *          *          *          *          *
* 5670.0          *          *          *          *          *          *          *
* 5672.0          *          *          *          *          *          *          *
* 5674.0          *          *          *          *          *          *          *
* 5676.0          *          *          *          *          *          *          *
* 5678.0          *          *          *          *          *          *          *
* 5680.0          *          *          *          *          *          *          *
* 5682.0          *          *          *          *          *          *          *
* 5684.0          *          *          *          *          *          *          *
* 5686.0          *          *          *          *          *          *          *
* 5688.0          *          *          *          *          *          *          *
* 5690.0          *          *          *          *          *          *          *
* 5692.0          *          *          *          *          *          *          *
* 5694.0          *          *          *          *          *          *          *
* 5696.0          *          *          *          *          *          *          *
* 5698.0          *          *          *          *          *          *          *
* 5700.0          *          *          *          *          *          *          *
* 5702.0          *          *          *          *          *          *          *
* 5704.0          *          *          *          *          *          *          *
* 5706.0          *          *          *          *          *          *          *
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*****									
* FORMATION *					* BOREHOLE *		* QUAL. *		
*****									
* DEPTH *	* DIP	* DIP	* DEV.	* DEV.	* DIAM	* DIAM	* BEST	* INDEX *	
		AZI.		AZI.	1-3	2-4		=4	
*****									
* 5708.0			3.7	6	13.5	15.3			*
* 5710.0			3.7	5	13.1	14.8			*
* 5712.0			3.6	6	12.6	14.2			*
* 5714.0			3.5	8	12.7	13.9			*
* 5716.0			3.5	6	12.4	13.2			*
* 5718.0			3.6	4	12.2	12.9			*
* 5720.0			3.6	4	12.2	13.0			*
* 5722.0			3.6	2	12.1	13.0			*
* 5724.0			3.6	2	11.9	12.9			*
* 5726.0			3.6	4	11.8	12.7			*
* 5728.0	10.6	165	3.6	4	11.9	12.6	1		*
* 5730.0	4.9	131	3.6	7	12.0	12.7	1		*
* 5732.0	4.0	138	3.4	8	12.7	13.5	3		*
* 5734.0			3.4	5	13.3	13.9			*
* 5736.0	8.2	143	3.4	7	13.1	13.8	1		*
* 5738.0			3.3	8	13.2	13.9			*
* 5740.0			3.3	5	12.6	13.2			*
* 5742.0			3.2	5	11.6	12.5			*
* 5744.0	8.2	132	3.3	6	11.5	12.5	3		*
* 5746.0	4.5	177	3.3	3	11.6	12.7	1		*
* 5748.0			3.3	1	11.7	12.8			*
* 5750.0			3.4	1	11.7	12.7			*
* 5752.0			3.4	0	11.5	12.5			*
* 5754.0	48.9	205	3.3	359	11.3	12.2	3		*
* 5756.0			3.2	359	11.4	12.0			*
* 5758.0	14.4	328	3.2	4	11.5	11.8	1		*
* 5760.0	6.3	299	3.2	8	12.1	12.0	1		*
* 5762.0	5.3	294	3.2	6	13.4	13.2	1		*
* 5764.0	7.3	310	3.2	3	13.8	13.4	3		*
* 5766.0	3.8	339	3.1	4	13.8	12.8	1		*
* 5768.0	11.3	172	3.1	4	14.5	13.2	1		*
* 5770.0	17.4	180	3.0	3	14.0	13.0	1		*
* 5772.0	47.1	184	3.0	3	13.4	12.6	3		*
* 5774.0			3.0	6	13.3	13.0			*
* 5776.0			3.0	6	13.6	13.4			*
* 5778.0	13.5	172	3.1	7	13.7	13.3	1		*
* 5780.0			3.2	10	13.5	13.0			*
* 5782.0			3.3	10	13.3	12.9			*
* 5784.0			3.3	8	13.1	12.6			*
* 5786.0			3.3	9	13.0	12.4			*
* 5788.0			3.3	10	13.1	12.7			*
* 5790.0			3.3	8	13.3	13.1			*
* 5792.0			3.2	9	13.3	13.5			*
* 5794.0	4.6	120	3.2	8	13.5	13.9	1		*
* 5796.0			3.2	6	12.8	13.4			*
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*          *      FORMATION          *          *      BOREHOLE          *      QUAL.      *
*          *-----*-----*-----*-----*-----*-----*-----*-----*
* DEPTH   *   DIP   DIP   *   DEV.   DEV.   DIAM   DIAM   * BEST   *
*         *       AZI. *       AZI.   1-3   2-4   * =4     *
*****
* 5798.0          *          *          *          *          *          *          *
* 5800.0          *          *          *          *          *          *          *
* 5802.0          *          *          *          *          *          *          *
* 5804.0    5.2    214    *          *          *          *          *          *
* 5806.0    3.1    225    *          *          *          *          *          *
* 5808.0    5.3    150    *          *          *          *          *          *
* 5810.0          *          *          *          *          *          *          *
* 5812.0          *          *          *          *          *          *          *
* 5814.0          *          *          *          *          *          *          *
* 5816.0    2.4    165    *          *          *          *          *          *
* 5818.0          *          *          *          *          *          *          *
* 5820.0    0.9    117    *          *          *          *          *          *
* 5822.0    4.4    266    *          *          *          *          *          *
* 5824.0    3.4    188    *          *          *          *          *          *
* 5826.0    1.9    145    *          *          *          *          *          *
* 5828.0          *          *          *          *          *          *          *
* 5830.0          *          *          *          *          *          *          *
* 5832.0    4.9    48     *          *          *          *          *          *
* 5834.0    3.1    322    *          *          *          *          *          *
* 5836.0    6.1    360    *          *          *          *          *          *
* 5838.0    3.6    64     *          *          *          *          *          *
* 5840.0          *          *          *          *          *          *          *
* 5842.0          *          *          *          *          *          *          *
* 5844.0          *          *          *          *          *          *          *
* 5846.0    7.1    352    *          *          *          *          *          *
* 5848.0          *          *          *          *          *          *          *
* 5850.0    8.3    330    *          *          *          *          *          *
* 5852.0          *          *          *          *          *          *          *
* 5854.0          *          *          *          *          *          *          *
* 5856.0    6.8    316    *          *          *          *          *          *
* 5858.0   10.4    326    *          *          *          *          *          *
* 5860.0    8.0    344    *          *          *          *          *          *
* 5862.0    1.2    347    *          *          *          *          *          *
* 5864.0          *          *          *          *          *          *          *
* 5866.0          *          *          *          *          *          *          *
* 5868.0   12.2    1     *          *          *          *          *          *
* 5870.0    9.1    302    *          *          *          *          *          *
* 5872.0    6.0    26     *          *          *          *          *          *
* 5874.0   15.6    65     *          *          *          *          *          *
* 5876.0          *          *          *          *          *          *          *
* 5878.0   11.4    33     *          *          *          *          *          *
* 5880.0   10.8    9      *          *          *          *          *          *
* 5882.0   11.9    355    *          *          *          *          *          *
* 5884.0   12.1    63     *          *          *          *          *          *
* 5886.0   10.8    359    *          *          *          *          *          *
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*****
*          * FORMATION          *          BOREHOLE          * QUAL. *
*          * -----          *          -----          * INDEX *
* DEPTH *  *  DIP    DIP    *  DEV.    DEV.    DIAM    DIAM    * BEST *
*          *          AZI.  *          AZI.    1-3    2-4    *  =4  *
*****
* 5888.0  * 7.3    208    * 3.4     7     10.3   10.1   * 1    *
* 5890.0  * 5.1    227    * 3.2     7     10.4   10.0   * 3    *
* 5892.0  * 6.0    281    * 3.1     7     10.4   10.0   * 3    *
* 5894.0  * 8.1    289    * 3.0     8     10.2   9.8    * 3    *
* 5896.0  *          *          * 3.1     8     10.1   9.7    *      *
* 5898.0  *          *          * 3.1     6     10.1   9.7    *      *
* 5900.0  * 10.8   166    * 3.1     6     10.1   9.7    * 3    *
* 5902.0  * 7.6    171    * 3.1     6     10.1   9.8    * 1    *
* 5904.0  * 11.0   129    * 3.2     6     10.2   10.0   * 3    *
* 5906.0  * 5.2    153    * 3.2     7     10.4   10.2   * 1    *
* 5908.0  * 5.2    161    * 3.2     6     10.5   10.6   * 4    *
* 5910.0  * 6.8    168    * 3.2     5     10.2   10.4   * 4    *
* 5912.0  * 5.7    172    * 3.2     5     10.1   10.1   * 4    *
* 5914.0  * 5.2    176    * 3.3     6     12.0   11.8   * 4    *
* 5916.0  * 13.0   150    * 3.3     6     12.2   12.3   * 4    *
* 5918.0  * 10.5   153    * 3.1     6     10.4   10.6   * 4    *
* 5920.0  * 8.0    151    * 3.1     7     9.9    10.0   * 4    *
* 5922.0  * 6.3    151    * 3.1     7     9.8    10.0   * 4    *
* 5924.0  * 2.7    201    * 3.1     8     9.7    9.9    * 4    *
* 5926.0  * 2.5    288    * 3.2     7     9.7    9.8    * 2    *
* 5928.0  * 14.1   153    * 3.2     7     9.7    9.8    * 4    *
* 5930.0  * 12.2   162    * 3.2     6     9.7    9.9    * 1    *
* 5932.0  * 8.6    200    * 3.3     5     9.7    9.9    * 1    *
* 5934.0  *          *          * 3.3     4     9.7    10.0   *      *
* 5936.0  * 7.0    188    * 3.3     3     10.4   10.9   * 1    *
* 5938.0  * 6.3    186    * 3.2     5     12.1   13.0   * 1    *
* 5940.0  * 3.8    179    * 3.2     6     12.6   13.9   * 1    *
* 5942.0  * 21.0   158    * 3.3     5     12.4   13.5   * 1    *
* 5944.0  *          *          * 3.4     4     12.8   13.2   *      *
* 5946.0  * 17.6   171    * 3.6     2     12.0   12.0   * 1    *
* 5948.0  * 9.1    192    * 3.7     3     12.2   11.8   * 1    *
* 5950.0  * 9.7    190    * 3.7     3     13.8   13.6   * 3    *
* 5952.0  *          *          * 3.5     1     13.8   14.3   *      *
* 5954.0  *          *          * 3.5     2     13.3   13.9   *      *
* 5956.0  *          *          * 3.7     2     13.6   13.6   *      *
* 5958.0  *          *          * 3.8     4     13.7   13.3   *      *
* 5960.0  *          *          * 3.9     7     14.0   13.5   *      *
* 5962.0  * 8.2    204    * 3.7     7     14.1   13.3   * 3    *
* 5964.0  * 9.2    192    * 3.4     4     14.4   13.9   * 3    *
* 5966.0  *          *          * 3.1     3     15.0   14.4   *      *
* 5968.0  *          *          * 3.1     2     14.3   14.0   *      *
* 5970.0  *          *          * 3.4     1     13.9   13.3   *      *
* 5972.0  *          *          * 3.5     2     14.1   13.4   *      *
* 5974.0  *          *          * 3.4     1     14.3   13.6   *      *
* 5976.0  *          *          * 3.4     360   14.4   13.8   *      *
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*****									
* FORMATION *					BOREHOLE		* QUAL. *		
* ----- * INDEX *									
* DEPTH *	* DIP	* DIP	* DEV.	DEV.	DIAM	DIAM	* BEST *		
* * *	* * *	AZI.	* * *	AZI.	1-3	2-4	* * *	* =4 *	
*****									
* 6068.0			3.5		4	14.8	14.5		*
* 6070.0			3.5		6	13.2	13.0		*
* 6072.0			3.5		7	12.1	12.4		*
* 6074.0			3.4		4	13.6	13.0		*
* 6076.0			3.4		3	14.1	12.4		*
* 6078.0			3.4		6	12.1	10.9		*
* 6080.0			3.4		6	11.1	10.5		*
* 6082.0			3.4		6	11.6	10.9		*
* 6084.0			3.4		7	12.1	12.6		*
* 6086.0			3.4		5	12.4	14.2		*
* 6088.0			3.4		5	12.8	13.4		*
* 6090.0			3.4		4	13.2	12.7		*
* 6092.0			3.4		2	13.7	13.8		*
* 6094.0			3.4		1	13.7	15.0		*
* 6096.0			3.4		2	12.8	14.5		*
* 6098.0			3.4		3	12.4	13.5		*
* 6100.0			3.4		4	12.0	12.6		*
* 6102.0			3.4		5	11.5	12.3		*
* 6104.0			3.4		4	11.0	11.8		*
* 6106.0			3.4		5	10.8	11.2		*
* 6108.0			3.4		5	10.9	11.0		*
* 6110.0			3.4		4	11.2	11.3		*
* 6112.0	46.4	219	3.4		5	11.7	11.6	1	*
* 6114.0	44.5	218	3.4		5	12.8	12.4	1	*
* 6116.0			3.3		4	12.9	11.6		*
* 6118.0	50.3	218	3.2		3	12.1	10.2	3	*
* 6120.0	48.2	220	3.2		4	11.8	10.4	1	*
* 6122.0	47.8	220	3.2		2	11.9	10.6	1	*
* 6124.0			3.2		359	11.9	10.4		*
* 6126.0			3.3		1	13.0	11.1		*
* 6128.0			3.4		9	14.6	11.6		*
* 6130.0			3.5		11	14.8	11.2		*
* 6132.0			3.5		12	14.5	11.0		*
* 6134.0	13.2	219	3.5		12	14.4	10.9	1	*
* 6136.0			3.4		10	14.0	10.9		*
* 6138.0			3.4		9	13.3	11.1		*
* 6140.0			3.4		8	13.0	11.4		*
* 6142.0	5.4	247	3.5		9	13.1	11.8	1	*
* 6144.0			3.6		10	13.7	13.0		*
* 6146.0	6.8	209	3.6		11	13.9	13.8	1	*
* 6148.0	6.2	197	3.6		11	13.0	13.4	3	*
* 6150.0			3.6		13	11.1	12.5		*
* 6152.0			3.6		14	10.9	12.1		*
* 6154.0			3.6		11	13.4	12.7		*
* 6156.0			3.6		10	14.5	13.0		*
*****									

*****									
* FORMATION *					BOREHOLE		* QUAL. *		
*****									
* DEPTH *	* DIP	DIP	* DEV.	DEV.	DIA1	DIA2	* BEST *	* INDEX *	
* * *	* * *	AZI.	* * *	AZI.	1-3	2-4	* * *	* =4 *	
*****									
* 6158.0			3.6	9	12.7	12.3			*
* 6160.0			3.6	12	11.1	11.5			*
* 6162.0			3.7	12	11.3	11.6			*
* 6164.0			3.6	12	11.2	11.6			*
* 6166.0			3.7	16	10.8	11.4			*
* 6168.0	20.3	183	3.7	15	12.1	11.2	3		*
* 6170.0	19.0	189	3.6	11	14.8	11.3	3		*
* 6172.0			3.6	10	15.7	12.3			*
* 6174.0			3.7	11	15.0	13.2			*
* 6176.0			3.7	13	13.9	13.0			*
* 6178.0			3.8	13	13.6	12.2			*
* 6180.0			3.7	10	13.8	11.6			*
* 6182.0			3.6	9	13.9	12.5			*
* 6184.0			3.6	10	13.5	13.0			*
* 6186.0			3.7	10	12.6	12.9			*
* 6188.0			3.8	10	11.5	12.3			*
* 6190.0			3.8	14	10.5	11.4			*
* 6192.0	16.9	226	3.8	13	10.8	11.6	1		*
* 6194.0			3.7	11	10.7	11.6			*
* 6196.0			3.5	13	10.1	11.0			*
* 6198.0	12.7	214	3.5	13	10.5	10.8	1		*
* 6200.0	11.0	224	3.6	14	10.7	10.8	3		*
* 6202.0	11.3	230	3.6	14	10.5	10.8	3		*
* 6204.0			3.6	11	11.0	10.7			*
* 6206.0			3.7	9	11.5	11.0			*
* 6208.0			3.7	8	10.7	11.2			*
* 6210.0	15.0	251	3.7	8	9.4	11.1	1		*
* 6212.0	20.0	276	3.8	11	10.9	11.5	1		*
* 6214.0			3.8	14	14.7	12.7			*
* 6216.0			3.7	12	15.2	12.9			*
* 6218.0			3.7	12	14.0	12.7			*
* 6220.0	21.4	275	3.7	14	13.2	11.7	1		*
* 6222.0	18.9	251	3.6	13	13.4	10.9	1		*
* 6224.0	14.9	275	3.7	13	13.4	11.0	1		*
* 6226.0	14.4	265	3.8	13	13.5	12.1	3		*
* 6228.0	17.5	254	3.7	13	13.9	13.0	1		*
* 6230.0			3.6	13	11.9	11.6			*
* 6232.0	5.8	150	3.6	14	10.5	10.4	1		*
* 6234.0	8.1	225	3.6	15	10.3	10.2	3		*
* 6236.0	8.5	222	3.6	12	11.1	10.2	3		*
* 6238.0			3.6	10	12.7	10.4			*
* 6240.0			3.7	14	14.2	10.6			*
* 6242.0			3.7	15	14.4	10.7			*
* 6244.0			3.7	10	14.1	10.6			*
* 6246.0			3.7	11	14.3	10.5			*





*****									
* FORMATION *					* BOREHOLE *		* QUAL. *		
*****									
* DEPTH *	* DIP	DIP	* DEV.	DEV.	DIAM	DIAM	* BEST *	* INDEX *	
*****									
		AZI.		AZI.	1-3	2-4	=4		
*****									
* 6428.0			4.2	8	10.2	14.1			*
* 6430.0			4.1	10	10.4	15.2			*
* 6432.0			4.1	11	10.5	15.6			*
* 6434.0			4.1	9	11.6	16.0			*
* 6436.0			4.1	7	12.0	15.4			*
* 6438.0			4.1	7	10.9	14.1			*
* 6440.0			4.1	9	10.8	14.2			*
* 6442.0			4.1	7	11.6	15.4			*
* 6444.0			4.1	4	12.4	15.9			*
* 6446.0			4.0	2	11.7	14.2			*
* 6448.0			4.0	2	10.6	12.1			*
* 6450.0	8.1	336	4.0	4	10.0	10.5	2		*
* 6452.0	5.4	52	4.0	8	9.7	10.0	4		*
* 6454.0	8.7	64	4.0	10	9.7	9.9	4		*
* 6456.0	8.8	69	4.0	7	9.7	9.7	4		*
* 6458.0	6.9	13	4.0	5	9.8	9.8	2		*
* 6460.0	13.7	360	4.0	6	9.9	9.9	2		*
* 6462.0	13.5	18	4.0	5	10.7	10.8	4		*
* 6464.0	11.1	18	4.1	3	13.1	13.6	4		*
* 6466.0			4.1	5	13.8	14.7			*
* 6468.0			4.1	6	12.9	14.5			*
* 6470.0			4.1	3	12.9	15.2			*
* 6472.0			4.1	2	12.5	15.7			*
* 6474.0			4.1	4	13.1	16.1			*
* 6476.0			4.1	2	13.3	15.4			*
* 6478.0			4.1	2	12.7	14.1			*
* 6480.0			4.1	7	13.0	14.1			*
* 6482.0			4.1	8	12.6	14.8			*
* 6484.0			4.1	9	11.5	15.1			*
* 6486.0			4.1	11	10.8	14.9			*
* 6488.0			4.1	11	12.1	15.8			*
* 6490.0			4.2	5	13.9	16.4			*
* 6492.0			4.2	4	14.1	15.6			*
* 6494.0			4.2	6	13.8	15.4			*
* 6496.0			4.2	6	13.1	16.1			*
* 6498.0			4.2	5	12.0	15.5			*
* 6500.0			4.2	5	11.4	16.3			*
* 6502.0			4.2	4	11.4	16.2			*
* 6504.0			4.2	5	10.9	16.4			*
* 6506.0			4.2	8	10.6	16.0			*
* 6508.0	73.3	204	4.2	13	10.5	14.9	1		*
* 6510.0			4.2	10	10.0	13.0			*
* 6512.0			4.2	6	9.1	10.6			*
* 6514.0			4.2	5	8.5	8.3			*
* 6516.0			4.2	4	8.6	8.2			*
*****									



*****									
* FORMATION *					* BOREHOLE *		* QUAL. *		
*****									
* DEPTH *	* DIP	DIP	* DEV.	DEV.	DIAM	DIAM	* BEST	* INDEX *	
*	*	AZI.	*	AZI.	1-3	2-4	* =4	*	
*****									
* 6634.0			4.8	358	9.7	10.1			*
* 6636.0			4.8	357	9.6	10.1			*
* 6638.0	8.3	181	4.8	358	9.6	10.2	1		*
* 6640.0	10.4	183	4.8	359	9.7	10.4	3		*
* 6642.0	12.2	183	4.8	357	9.9	10.5	1		*
* 6644.0			4.8	358	10.1	10.8			*
* 6646.0	5.4	180	4.9	358	10.3	11.0	3		*
* 6648.0			4.9	0	11.2	12.3			*
* 6650.0			4.9	3	12.8	14.1			*
* 6652.0			4.9	2	13.3	14.5			*
* 6654.0			4.9	1	12.3	14.3			*
* 6656.0	8.3	241	4.9	4	11.1	14.0	1		*
* 6658.0			5.0	5	11.0	13.7			*
* 6660.0	11.3	220	5.0	360	11.3	14.2	1		*
* 6662.0	9.0	204	5.0	355	12.3	14.9	1		*
* 6664.0	16.1	176	5.0	359	13.6	15.7	1		*
* 6666.0	12.5	197	5.0	1	13.1	17.0	1		*
* 6668.0			5.0	2	12.2	17.5			*
* 6670.0	7.6	188	5.0	5	12.1	16.8	1		*
* 6672.0	11.0	253	5.1	4	12.7	16.1	1		*
* 6674.0			5.1	4	12.1	15.9			*
* 6676.0			5.1	5	10.6	15.7			*
* 6678.0			5.1	5	10.2	14.1			*
* 6680.0			5.1	0	11.3	14.4			*
* 6682.0			5.1	1	13.1	16.2			*
* 6684.0			5.1	1	13.3	16.9			*
* 6686.0			5.2	0	13.2	16.6			*
* 6688.0			5.2	2	13.5	15.6			*
* 6690.0			5.2	360	13.6	16.1			*
* 6692.0			5.2	2	13.6	16.7			*
* 6694.0			5.2	3	13.5	15.9			*
* 6696.0			5.2	2	15.1	16.2			*
* 6698.0			5.2	4	15.3	16.2			*
* 6700.0			5.1	4	13.2	15.1			*
* 6702.0			5.1	2	13.0	15.9			*
* 6704.0			5.1	359	14.7	17.4			*
* 6706.0			5.1	360	13.4	16.7			*
* 6708.0			5.1	2	10.8	13.4			*
* 6710.0			5.1	3	10.4	12.4			*
* 6712.0			5.1	1	10.2	12.1			*
* 6714.0			5.1	2	9.9	11.0			*
* 6716.0			5.0	2	9.9	11.8			*
* 6718.0			5.0	1	9.9	12.0			*
* 6720.0	17.8	143	5.0	0	10.0	11.9	1		*
* 6722.0			5.0	360	10.1	11.9			*
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* FORMATION *					* BOREHOLE		* QUAL. *		
*****									
* DEPTH *	* DIP	DIP	* DEV.	DEV.	DIAM	DIAM	* BEST	* INDEX *	
* * *	* * *	AZI.	* * *	AZI.	1-3	2-4	* =4	* * *	
*****									
* 6814.0			5.4	357	12.0	11.3			*
* 6816.0			5.5	358	11.9	11.4			*
* 6818.0	27.4	123	5.5	358	12.1	11.5	3		*
* 6820.0	27.2	111	5.7	354	12.3	11.7	1		*
* 6822.0	9.4	189	5.8	355	12.4	12.1	1		*
* 6824.0	5.3	193	5.6	354	12.1	11.7	3		*
* 6826.0	7.1	184	5.4	352	11.6	11.2	1		*
* 6828.0			5.4	351	11.5	11.1			*
* 6830.0			5.4	349	11.6	11.2			*
* 6832.0			5.5	352	11.9	11.3			*
* 6834.0			5.5	356	12.7	11.4			*
* 6836.0	23.4	181	5.5	355	12.6	11.4	3		*
* 6838.0	21.6	178	5.5	355	12.2	11.3	3		*
* 6840.0	19.9	175	5.5	352	11.9	11.4	3		*
* 6842.0	18.8	175	5.4	350	11.9	11.5	1		*
* 6844.0			5.4	355	12.8	11.5			*
* 6846.0			5.4	357	13.1	11.6			*
* 6848.0			5.4	354	12.6	11.4			*
* 6850.0			5.4	352	13.1	11.3			*
* 6852.0	21.5	179	5.5	353	13.2	11.4	1		*
* 6854.0	25.8	194	5.4	353	12.3	11.4	1		*
* 6856.0			5.4	350	11.9	11.3			*
* 6858.0			5.4	349	12.1	11.2			*
* 6860.0	18.5	174	5.4	351	11.9	11.2	1		*
* 6862.0			5.4	351	11.5	11.3			*
* 6864.0			5.4	352	11.2	11.3			*
* 6866.0	17.8	197	5.4	353	11.2	11.2	1		*
* 6868.0	16.3	191	5.4	351	11.1	11.1	1		*
* 6870.0			5.4	351	10.9	11.0			*
* 6872.0			5.4	351	10.7	10.9			*
* 6874.0	15.1	176	5.4	349	10.7	10.7	3		*
* 6876.0	16.5	167	5.3	352	10.6	10.5	3		*
* 6878.0	19.9	161	5.3	351	10.6	10.5	1		*
* 6880.0	31.1	131	5.3	351	10.5	10.4	3		*
* 6882.0	30.3	130	5.3	354	10.4	10.4	1		*
* 6884.0	10.1	172	5.3	351	10.4	10.4	1		*
* 6886.0	21.0	172	5.4	350	10.4	10.4	1		*
* 6888.0	17.7	152	5.3	349	10.5	10.6	1		*
* 6890.0	10.5	189	5.3	350	10.7	10.8	1		*
* 6892.0	12.9	199	5.3	352	10.8	10.8	3		*
* 6894.0	12.0	201	5.3	351	10.8	10.7	3		*
* 6896.0	16.7	166	5.3	350	10.8	10.6	1		*
* 6898.0	20.1	185	5.3	352	10.7	10.5	3		*
* 6900.0	5.1	303	5.3	353	10.7	10.4	3		*
* 6902.0	4.5	306	5.3	354	10.6	10.3	3		*
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* FORMATION *					* BOREHOLE *		* QUAL. *		
*****									
* DEPTH *	* DIP *	* DIP *	* DEV. *	* DEV. *	* DIAM *	* DIAM *	* INDEX *		
		AZI.	DEV.	AZI.	1-3	2-4	* BEST *		
							* #4 *		
*****									
* 6904.0	16.9	135	5.4	354	10.5	10.2	1	*	*
* 6906.0	6.7	326	5.4	353	10.6	10.1	3	*	*
* 6908.0	20.0	165	5.4	353	10.6	10.2	3	*	*
* 6910.0	18.1	167	5.3	354	10.5	10.0	3	*	*
* 6912.0	16.3	163	5.4	353	10.4	9.8	1	*	*
* 6914.0			5.4	355	10.6	9.9		*	*
* 6916.0			5.3	359	11.2	10.6		*	*
* 6918.0	15.6	180	5.3	0	11.4	10.9	2	*	*
* 6920.0	11.0	162	5.3	2	11.3	10.4	4	*	*
* 6922.0	9.4	170	5.3	3	11.3	10.2	4	*	*
* 6924.0	8.9	154	5.3	2	11.4	10.3	4	*	*
* 6926.0	8.9	145	5.3	1	11.4	10.4	4	*	*
* 6928.0	8.4	127	5.3	359	11.3	10.3	2	*	*
* 6930.0	8.3	128	5.4	359	11.2	10.3	2	*	*
* 6932.0	12.5	169	5.4	358	11.1	10.2	2	*	*
* 6934.0	11.0	170	5.5	358	11.1	10.0	1	*	*
* 6936.0	55.7	148	5.5	0	11.1	10.0	3	*	*
* 6938.0	13.0	154	5.5	358	11.2	10.2	1	*	*
* 6940.0	10.8	158	5.4	356	11.6	10.4	3	*	*
* 6942.0	15.9	140	5.3	358	11.9	11.0	1	*	*
* 6944.0	3.8	127	5.3	359	12.0	10.7	1	*	*
* 6946.0	7.0	141	5.3	359	11.9	10.5	1	*	*
* 6948.0			5.3	358	11.6	10.3		*	*
* 6950.0	55.4	151	5.3	359	11.4	10.2	1	*	*
* 6952.0			5.3	0	11.3	10.0		*	*
* 6954.0	11.4	142	5.4	359	11.2	10.0	1	*	*
* 6956.0	17.2	163	5.3	356	11.3	10.5	1	*	*
* 6958.0	15.0	205	5.3	353	11.1	10.5	1	*	*
* 6960.0	10.5	181	5.3	354	10.8	9.9	1	*	*
* 6962.0			5.3	356	10.7	9.6		*	*
* 6964.0			5.2	358	10.7	9.5		*	*
* 6966.0	14.8	149	5.2	358	10.9	9.6	3	*	*
* 6968.0	14.8	151	5.2	357	11.3	9.7	3	*	*
* 6970.0	15.5	151	5.2	357	11.8	10.1	1	*	*
* 6972.0			5.2	356	12.3	10.6		*	*
* 6974.0	28.1	183	5.2	6	12.7	10.9	2	*	*
* 6976.0	24.5	176	5.2	5	13.0	11.0	2	*	*
* 6978.0			5.2	355	13.3	11.1		*	*
* 6980.0			5.2	357	13.6	11.3		*	*
* 6982.0			5.2	0	13.8	11.5		*	*
* 6984.0	17.2	210	5.2	359	13.9	11.8	2	*	*
* 6986.0	16.4	199	5.2	357	14.1	12.8	4	*	*
* 6988.0	19.2	194	5.3	359	14.5	13.8	4	*	*
* 6990.0	21.6	182	5.3	359	14.5	14.6	4	*	*
* 6992.0	23.6	198	5.3	359	14.5	14.9	2	*	*
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* FORMATION *				* BOREHOLE *		* QUAL. *	
*****							
* DEPTH *	* DIP	DIP	* DEV.	DEV.	DIAM	DIAM	* BEST *
* * *	* * *	AZI.	* * *	AZI.	1-3	2-4	* =4 *
*****							
* 6994.0	19.0	189	5.3	355	15.0	15.2	2 *
* 6996.0	14.6	175	5.3	353	14.1	14.2	4 *
* 6998.0	14.0	184	5.3	354	12.6	12.5	4 *
* 7000.0	12.2	183	5.3	355	12.3	11.9	4 *
* 7002.0	15.3	169	5.3	355	12.1	11.6	4 *
* 7004.0	15.6	172	5.3	356	12.0	11.4	4 *
* 7006.0	18.2	176	5.3	355	11.9	11.1	4 *
* 7008.0	15.6	177	5.3	352	11.8	10.9	4 *
* 7010.0	11.6	172	5.3	352	11.6	10.7	2 *
* 7012.0	11.8	163	5.3	351	11.4	10.6	2 *
* 7014.0	9.0	167	5.3	351	11.4	10.4	4 *
* 7016.0	9.8	170	5.3	351	11.3	10.4	4 *
* 7018.0	11.2	185	5.3	351	11.3	10.4	4 *
* 7020.0	11.6	169	5.3	350	11.2	10.4	4 *
* 7022.0	12.6	171	5.3	351	11.2	10.4	4 *
* 7024.0			5.3	352	11.2	10.5	4 *
* 7026.0			5.3	353	11.2	10.5	4 *
* 7028.0	12.7	163	5.3	356	11.2	10.5	4 *
* 7030.0			5.3	356	11.3	10.5	4 *
* 7032.0	16.0	153	5.3	358	11.3	10.5	2 *
* 7034.0	14.1	180	5.3	357	11.2	10.4	1 *
* 7036.0	22.1	202	5.3	355	11.1	10.4	1 *
* 7038.0	16.5	207	5.3	355	11.0	10.4	3 *
* 7040.0	19.5	201	5.4	354	11.0	10.4	3 *
* 7042.0	17.3	206	5.4	355	11.0	10.4	3 *
* 7044.0	10.5	209	5.4	354	10.9	10.4	1 *
* 7046.0	17.8	194	5.4	356	10.8	10.4	1 *
* 7048.0	26.2	211	5.4	356	10.7	10.4	1 *
* 7050.0			5.4	356	10.8	10.4	4 *
* 7052.0			5.4	357	11.8	10.6	4 *
* 7054.0	16.6	141	5.4	359	14.4	11.6	2 *
* 7056.0	15.2	166	5.4	357	14.3	11.4	4 *
* 7058.0	13.4	157	5.4	357	13.7	11.2	4 *
* 7060.0	11.6	184	5.4	2	14.4	12.1	4 *
* 7062.0	10.0	187	5.4	2	14.8	13.0	4 *
* 7064.0	9.8	173	5.4	2	14.5	13.2	4 *
* 7066.0	12.0	183	5.4	359	12.2	11.9	4 *
* 7068.0	13.9	164	5.4	355	10.8	10.8	4 *
* 7070.0	13.6	171	5.4	353	10.5	10.7	4 *
* 7072.0	14.6	191	5.4	352	10.2	10.5	4 *
* 7074.0	12.7	177	5.4	353	10.1	10.4	2 *
* 7076.0	8.8	214	5.4	351	10.1	10.4	2 *
* 7078.0			5.4	351	10.1	10.3	4 *
* 7080.0	7.2	170	5.4	349	10.0	10.3	4 *
* 7082.0	7.1	167	5.4	347	10.1	10.3	4 *
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* FOREATION *					BOREHOLE		* QUAL. *		
*-----*									
* DEPTH *	* DIP	DIP	* DEV.	DEV.	DIAM	DIAM	* BEST	* INDEX *	
* * *	* * *	AZI.	* * *	AZI.	1-3	2-4	* * *	* =4 *	
*****									
* 7084.0	10.7	149	5.4	346	10.1	10.4	2	*	
* 7086.0	12.7	159	5.4	348	10.0	10.4	2	*	
* 7088.0	8.4	170	5.4	351	10.1	10.5	4	*	
* 7090.0	10.6	175	5.5	353	10.3	10.9	4	*	
* 7092.0	10.9	178	5.5	355	10.5	11.2	4	*	
* 7094.0	11.6	183	5.5	356	10.6	11.4	4	*	
* 7096.0	11.6	180	5.5	355	10.7	11.6	4	*	
* 7098.0	10.2	175	5.5	355	10.8	11.0	4	*	
* 7100.0	10.1	177	5.5	356	10.9	12.0	4	*	
* 7102.0	10.5	179	5.5	357	11.0	12.4	4	*	
* 7104.0	11.3	183	5.5	359	11.0	12.9	4	*	
* 7106.0	11.1	184	5.5	358	11.0	13.1	4	*	
* 7108.0	11.4	167	5.5	357	11.0	12.8	2	*	
* 7110.0	11.8	178	5.5	356	11.0	12.6	4	*	
* 7112.0	11.4	177	5.5	354	11.0	12.8	4	*	
* 7114.0	11.1	174	5.5	355	11.0	12.2	4	*	
* 7116.0	11.0	175	5.5	355	10.9	12.7	4	*	
* 7118.0	11.2	175	5.5	356	10.8	12.6	4	*	
* 7120.0	12.9	182	5.5	355	10.8	12.4	4	*	
* 7122.0	12.8	180	5.5	355	10.7	12.2	4	*	
* 7124.0	10.9	177	5.5	357	10.7	12.1	4	*	
* 7126.0	11.1	180	5.6	357	10.8	12.8	4	*	
* 7128.0			5.6	356	10.9	13.5		*	
* 7130.0	13.8	181	5.7	356	10.8	12.9	1	*	
* 7132.0	16.2	180	5.8	357	10.7	12.4	3	*	
* 7134.0	13.5	176	5.8	356	10.7	12.1	3	*	
* 7136.0	11.7	176	5.6	355	10.7	12.0	4	*	
* 7138.0	10.6	180	5.5	357	10.8	12.0	4	*	
* 7140.0	7.9	181	5.5	356	10.9	12.3	4	*	
* 7142.0	11.5	177	5.5	355	11.0	13.0	4	*	
* 7144.0	10.5	180	5.6	354	11.1	13.5	4	*	
* 7146.0	10.4	173	5.5	353	11.1	13.3	4	*	
* 7148.0	11.6	180	5.6	353	11.3	12.9	4	*	
* 7150.0	9.3	184	5.6	353	11.4	12.6	4	*	
* 7152.0	8.2	199	5.6	355	11.4	12.3	4	*	
* 7154.0	11.6	199	5.6	355	11.4	12.1	4	*	
* 7156.0	12.4	184	5.6	356	11.5	11.9	4	*	
* 7158.0	11.8	185	5.6	357	11.4	11.7	4	*	
* 7160.0	10.8	186	5.7	358	11.4	11.5	4	*	
* 7162.0	10.0	186	5.7	359	11.4	11.4	4	*	
* 7164.0	10.0	184	5.6	359	11.4	11.3	4	*	
* 7166.0	9.6	186	5.7	360	11.4	11.2	4	*	
* 7168.0	8.7	190	5.7	359	11.4	11.1	4	*	
* 7170.0	11.5	183	5.8	359	11.4	11.0	4	*	
* 7172.0	10.4	183	5.7	0	11.3	11.0	4	*	
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* FORMATION *					BOREHOLE		* QUAL. *		
*****									
* DEPTH *	* DIP	DIP	* DEV.	DEV.	DIAM	DIAM	* BEST *	* INDEX *	
* * *	* * *	AZI.	* * *	AZI.	1-3	2-4	* * *	* * *	
*****									
* 7174.0	8.6	184	* 5.7	359	11.3	10.9	4	* *	
* 7176.0	9.2	182	* 5.7	358	11.1	10.8	4	* *	
* 7178.0	10.7	175	* 5.7	356	11.1	10.6	4	* *	
* 7180.0	10.5	175	* 5.7	357	11.0	10.5	4	* *	
* 7182.0	10.8	175	* 5.7	356	11.1	10.6	4	* *	
* 7184.0	10.1	176	* 5.7	356	11.1	10.7	4	* *	
* 7186.0	9.6	173	* 5.7	356	11.1	10.8	4	* *	
* 7188.0	10.1	172	* 5.7	355	11.2	10.9	4	* *	
* 7190.0	10.2	175	* 5.7	355	11.2	10.9	4	* *	
* 7192.0	10.5	170	* 5.8	354	11.1	10.8	4	* *	
* 7194.0	10.0	170	* 5.8	355	11.1	10.8	4	* *	
* 7196.0	12.1	161	* 5.8	355	11.1	10.8	4	* *	
* 7198.0	11.7	162	* 5.8	355	11.1	10.8	4	* *	
* 7200.0	10.4	167	* 5.8	354	11.1	10.8	4	* *	
* 7202.0	10.6	174	* 5.8	354	11.1	10.8	2	* *	
* 7204.0	12.2	174	* 5.8	354	11.2	10.8	4	* *	
* 7206.0	11.8	171	* 5.8	354	11.2	10.7	4	* *	
* 7208.0	10.1	175	* 5.8	354	11.4	10.9	4	* *	
* 7210.0	10.4	171	* 5.9	353	11.6	11.0	4	* *	
* 7212.0	10.5	170	* 5.9	352	11.6	11.0	4	* *	
* 7214.0	7.2	162	* 5.8	351	11.6	11.0	4	* *	
* 7216.0	8.0	166	* 5.8	352	11.5	11.0	4	* *	
* 7218.0	11.8	173	* 5.8	351	11.6	11.0	4	* *	
* 7220.0	12.0	165	* 5.8	349	11.6	11.0	4	* *	
* 7222.0	10.7	171	* 5.9	349	11.6	11.0	4	* *	
* 7224.0	10.7	176	* 5.9	349	11.5	11.0	4	* *	
* 7226.0	10.7	175	* 5.9	350	11.5	11.0	4	* *	
* 7228.0	10.4	169	* 5.9	350	11.6	11.0	4	* *	
* 7230.0	9.4	166	* 5.9	350	11.8	11.1	4	* *	
* 7232.0	10.4	163	* 5.9	348	11.8	11.2	4	* *	
* 7234.0	10.7	163	* 5.9	347	11.7	11.4	4	* *	
* 7236.0	10.8	163	* 5.9	350	11.5	11.4	4	* *	
* 7238.0	8.8	172	* 5.9	350	11.4	11.5	4	* *	
* 7240.0	10.5	170	* 5.9	353	11.2	11.4	4	* *	
* 7242.0	13.0	164	* 5.9	353	11.1	11.4	4	* *	
* 7244.0	11.2	173	* 5.9	353	10.9	11.3	4	* *	
* 7246.0	9.2	175	* 5.9	354	10.7	11.2	4	* *	
* 7248.0	8.4	174	* 5.9	354	10.6	11.1	4	* *	
* 7250.0	9.6	175	* 5.9	356	10.5	11.0	4	* *	
* 7252.0	8.8	167	* 5.9	355	10.4	11.0	4	* *	
* 7254.0	7.6	174	* 5.9	355	10.4	11.0	4	* *	
* 7256.0	8.2	195	* 6.0	355	10.4	11.0	4	* *	
* 7258.0	10.2	183	* 5.9	356	10.4	11.0	4	* *	
* 7260.0	9.5	177	* 6.0	357	10.5	11.2	4	* *	
* 7262.0	10.7	174	* 6.0	355	10.6	11.2	4	* *	
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* * * * *	FORMATION	* * * * *	BOREHOLE	* * * * *	QUAL.	* * * * *	INDEX	* * * * *
* * * * *	DEPTH	DIP	DIP	DEV.	DEV.	DIAM	DIAM	* * * * *
* * * * *	* * * * *	AZI.	* * * * *	AZI.	1-3	2-4	* * * * *	4
* 7354.0	10.5	179	6.1	353	10.1	10.5	4	*
* 7356.0	8.9	183	6.1	354	10.1	10.4	4	*
* 7358.0	11.0	167	6.2	355	10.2	10.5	4	*
* 7360.0	11.4	157	6.2	354	10.2	10.5	4	*
* 7362.0	10.2	157	6.2	355	10.1	10.2	4	*
* 7364.0	11.0	167	6.2	354	10.1	10.1	4	*
* 7366.0	8.8	164	6.2	356	10.1	10.3	4	*
* 7368.0	6.9	181	6.2	356	10.2	10.4	2	*
* 7370.0	6.5	204	6.1	357	10.3	10.4	4	*
* 7372.0	7.5	201	6.2	358	10.4	10.5	4	*
* 7374.0	14.6	180	6.2	357	10.5	10.6	4	*
* 7376.0	13.9	183	6.1	358	10.5	10.7	4	*
* 7378.0	12.9	183	6.1	357	10.6	10.7	4	*
* 7380.0	9.2	197	6.1	358	10.6	10.7	4	*
* 7382.0	9.2	193	6.2	356	10.5	10.6	4	*
* 7384.0	12.9	183	6.2	356	10.5	10.6	4	*
* 7386.0	12.3	182	6.1	356	10.4	10.6	4	*
* 7388.0	11.4	182	6.2	356	10.5	10.7	4	*
* 7390.0	11.7	186	6.2	357	10.3	10.5	4	*
* 7392.0	11.6	185	6.2	356	10.2	10.2	4	*
* 7394.0	11.4	184	6.2	356	10.2	10.3	4	*
* 7396.0	12.0	184	6.2	355	10.2	10.3	4	*
* 7398.0	10.3	172	6.2	355	10.3	10.4	4	*
* 7400.0	12.0	152	6.3	355	10.4	10.4	2	*
* 7402.0	12.6	187	6.2	354	10.4	10.4	4	*
* 7404.0	12.5	189	6.1	355	10.3	10.3	4	*
* 7406.0	9.9	184	6.2	353	10.3	10.4	4	*
* 7408.0	11.5	150	6.1	354	10.4	10.5	4	*
* 7410.0	10.1	200	6.1	354	10.4	10.4	4	*
* 7412.0	14.2	197	6.1	353	10.4	10.3	4	*
* 7414.0	8.1	189	6.2	353	10.2	10.2	4	*
* 7416.0	7.4	190	6.1	353	10.2	10.2	4	*
* 7418.0	12.7	201	6.2	353	10.3	10.3	4	*
* 7420.0	14.4	191	6.3	353	10.4	10.4	4	*
* 7422.0	8.8	180	6.3	354	10.4	10.4	2	*
* 7424.0	8.6	184	6.2	355	10.4	10.4	4	*
* 7426.0	8.3	184	6.2	355	10.4	10.5	4	*
* 7428.0	10.6	188	6.1	355	10.4	10.5	4	*
* 7430.0	12.8	187	6.1	357	10.4	10.5	3	*
* 7432.0	14.2	180	6.1	357	10.4	10.6	3	*
* 7434.0	14.5	181	6.1	358	10.5	10.6	3	*
* 7436.0	11.5	213	6.1	358	10.5	10.6	1	*
* 7438.0	10.9	166	6.1	358	10.5	10.6	1	*
* 7440.0			6.1	358	10.5	10.6		*
* 7442.0			6.1	357	10.5	10.6		*

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* FORMATION *					BOREHOLE		* QUAL. *		
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* DEPTH *	* DIP	DIP	* DEV.	DEV.	DIAM	DIAM	* BEST *	* INDEX *	
*	*	AZI.	*	AZI.	1-3	2-4	*	* =4 *	
*****									
* 7444.0			6.1	356	10.4	10.4			
* 7446.0			6.1	357	10.4	10.4			
* 7448.0	7.2	169	6.2	355	10.5	10.4	2	*	*
* 7450.0	6.5	172	6.2	356	10.5	10.4	4	*	*
* 7452.0	7.1	178	6.2	356	10.4	10.4	4	*	*
* 7454.0	10.3	181	6.2	356	10.2	10.4	2	*	*
* 7456.0	10.9	183	6.2	357	10.2	10.4	4	*	*
* 7458.0	13.6	186	6.1	358	10.3	10.5	4	*	*
* 7460.0	11.5	181	6.1	358	10.3	10.6	4	*	*
* 7462.0	11.3	188	6.2	358	10.3	10.5	4	*	*
* 7464.0	10.6	190	6.2	359	10.2	10.4	4	*	*
* 7466.0	8.4	181	6.1	359	10.3	10.4	4	*	*
* 7468.0	9.0	193	6.1	360	10.4	10.4	4	*	*
* 7470.0	9.0	198	6.1	360	10.4	10.5	4	*	*
* 7472.0	8.9	197	6.2	0	10.3	10.4	4	*	*
* 7474.0			6.1	0	10.3	10.4			
* 7476.0	14.2	188	6.1	0	10.4	10.4	4	*	*
* 7478.0	13.6	189	6.1	360	10.4	10.5	4	*	*
* 7480.0	14.1	182	6.2	358	10.4	10.6	4	*	*
* 7482.0	11.7	181	6.2	357	10.4	10.6	4	*	*
* 7484.0	10.4	178	6.2	357	10.3	10.4	4	*	*
* 7486.0	10.1	182	6.1	357	10.1	10.2	4	*	*
* 7488.0	8.9	185	6.1	356	10.1	10.2	4	*	*
* 7490.0	8.3	185	6.2	356	10.1	10.3	4	*	*
* 7492.0	9.0	191	6.2	357	10.1	10.4	4	*	*
* 7494.0	10.2	187	6.2	356	10.1	10.3	4	*	*
* 7496.0	12.6	187	6.2	356	10.2	10.4	3	*	*
* 7498.0	16.4	168	6.2	356	10.2	10.3	1	*	*
* 7500.0	12.4	165	6.2	356	10.2	10.3	1	*	*
* 7502.0	11.3	173	6.2	355	10.1	10.2	3	*	*
* 7504.0	9.9	150	6.2	356	10.0	10.1	1	*	*
* 7506.0	11.1	141	6.2	357	10.1	10.1	1	*	*
* 7508.0	13.2	170	6.2	356	10.1	10.2	1	*	*
* 7510.0	7.3	306	6.2	355	10.2	10.3	3	*	*
* 7512.0	10.1	179	6.2	354	10.2	10.4	4	*	*
* 7514.0	10.4	177	6.2	355	10.2	10.4	4	*	*
* 7516.0	10.3	173	6.2	355	10.2	10.3	4	*	*
* 7518.0	10.5	178	6.2	354	10.2	10.3	4	*	*
* 7520.0	10.7	183	6.2	355	10.2	10.4	4	*	*
* 7522.0	9.8	184	6.2	357	10.2	10.5	4	*	*
* 7524.0	9.9	180	6.2	358	10.2	10.4	4	*	*
* 7526.0	9.9	177	6.1	357	10.2	10.4	4	*	*
* 7528.0	11.0	181	6.1	357	10.2	10.4	4	*	*
* 7530.0	11.3	180	6.2	358	10.2	10.4	4	*	*
* 7532.0	11.2	177	6.1	358	10.2	10.4	4	*	*
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*          * FORMATION *          * BOREHOLE *          * QUAL. *
*          *-----*          *-----*          * INDEX *
* DEPTH *  DIP   DIP   *  DEV.   DEV.   DIAM   DIAM * BEST *
*          *     *     *     *     *     *     *     *  *  *
*          *     *     *     *     *     *     *     *  *  *
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DEPTH	DIP	DIP AZI.	DEV.	DEV. AZI.	DIAM 1-3	DIAM 2-4	BEST ≥4
* 7534.0	10.0	174	6.1	358	10.2	10.4	4 *
* 7536.0	10.2	186	6.2	357	10.2	10.4	4 *
* 7538.0	10.7	182	6.2	357	10.1	10.4	4 *
* 7540.0	9.2	180	6.2	358	10.2	10.4	4 *
* 7542.0	8.6	179	6.2	356	10.2	10.4	4 *
* 7544.0	11.0	179	6.2	354	10.1	10.3	4 *
* 7546.0	10.0	175	6.2	354	10.1	10.3	4 *
* 7548.0	10.3	182	6.2	355	10.1	10.3	4 *
* 7550.0	11.8	176	6.2	355	10.1	10.2	4 *
* 7552.0	12.0	165	6.2	356	10.1	10.3	4 *
* 7554.0	11.2	173	6.1	356	10.2	10.4	4 *
* 7556.0	10.4	166	6.1	352	10.3	10.7	4 *
* 7558.0	10.7	172	6.2	352	10.4	10.7	4 *
* 7560.0	8.4	211	6.2	357	10.3	10.5	2 *
* 7562.0	8.6	187	6.2	357	10.3	10.5	4 *
* 7564.0	8.9	190	6.2	358	10.4	10.6	4 *
* 7566.0	6.8	200	6.2	358	10.5	10.7	4 *
* 7568.0	7.6	196	6.3	359	10.5	10.9	4 *
* 7570.0	9.8	200	6.3	359	10.5	10.9	4 *
* 7572.0	7.2	205	6.3	359	10.5	10.8	2 *
* 7574.0	12.3	181	6.3	359	10.3	10.6	4 *
* 7576.0	11.8	180	6.2	358	10.2	10.6	4 *
* 7578.0	9.8	180	6.2	358	10.3	10.7	4 *
* 7580.0	7.5	163	6.3	358	10.4	10.8	4 *
* 7582.0	8.4	166	6.2	358	10.5	10.9	4 *
* 7584.0	7.8	181	6.2	357	10.5	10.9	4 *
* 7586.0	12.4	182	6.3	358	10.4	10.6	4 *
* 7588.0	11.9	182	6.3	358	10.3	10.6	4 *
* 7590.0	9.5	154	6.3	359	10.2	10.5	4 *
* 7592.0	10.1	163	6.3	359	10.2	10.5	4 *
* 7594.0	12.5	185	6.3	0	10.2	10.5	4 *
* 7596.0	11.6	186	6.3	1	10.2	10.5	4 *
* 7598.0	10.5	185	6.3	0	10.1	10.4	4 *
* 7600.0	8.9	186	6.3	0	10.2	10.5	4 *
* 7602.0	8.5	180	6.2	352	10.5	10.2	4 *
* 7604.0	9.9	185	6.2	352	10.5	10.3	4 *
* 7606.0	16.4	165	6.2	352	10.9	10.4	2 *
* 7608.0	12.1	189	6.2	352	11.2	10.6	4 *
* 7610.0	21.8	181	6.2	352	11.2	10.7	1 *
* 7612.0	15.0	170	6.2	353	11.2	10.8	2 *
* 7614.0	19.8	189	6.2	353	11.2	10.9	4 *
* 7616.0	17.3	191	6.2	353	11.2	10.9	4 *
* 7618.0	13.5	186	6.2	353	11.3	10.9	4 *
* 7620.0	12.2	183	6.2	353	11.4	11.0	4 *
* 7622.0	10.1	191	6.2	355	11.5	11.0	4 *

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* * * * *	* FORMATION *			* BOREHOLE *			* QUAL. *
* * * * *	*-----* INDEX *						
* DEPTH *	DIP	DIP	DEV.	DEV.	DIAM	DIAM	* BEST *
* * * * *	* * * * *	AZI.	* * * * *	AZI.	1-3	2-4	* =4 *
*****							
* 7624.0	10.9	209	6.2	356	11.5	11.0	4 *
* 7626.0	9.8	209	6.2	355	11.9	11.0	4 *
* 7628.0	11.8	180	6.2	355	12.0	11.0	2 *
* 7630.0	11.2	181	6.2	354	11.5	10.9	4 *
* 7632.0	11.4	182	6.2	355	11.5	10.9	4 *
* 7634.0	10.7	185	6.2	357	12.3	11.0	4 *
* 7636.0	10.4	172	6.2	356	12.3	11.0	4 *
* 7638.0	12.3	161	6.2	353	11.6	11.0	4 *
* 7640.0	9.1	158	6.2	351	11.4	10.9	4 *
* 7642.0	7.4	157	6.2	350	11.4	10.9	4 *
* 7644.0	20.4	181	6.2	352	11.4	10.9	2 *
* 7646.0	8.0	176	6.2	352	11.4	10.9	4 *
* 7648.0	8.1	174	6.2	351	11.3	10.9	4 *
* 7650.0	16.0	193	6.2	350	11.3	11.0	2 *
* 7652.0	13.9	179	6.2	349	11.2	11.0	4 *
* 7654.0	9.5	175	6.2	350	11.2	10.9	4 *
* 7656.0	8.5	177	6.2	350	11.1	10.8	4 *
* 7658.0	8.6	179	6.2	350	11.0	10.7	4 *
* 7660.0	10.6	178	6.2	352	11.0	10.5	4 *
* 7662.0	11.2	180	6.2	353	11.2	10.5	4 *
* 7664.0	11.3	180	6.2	352	11.5	10.7	4 *
* 7666.0	11.6	182	6.2	351	11.4	10.8	4 *
* 7668.0	9.2	189	6.2	355	11.9	10.7	4 *
* 7670.0	8.2	189	6.2	357	12.2	10.9	4 *
* 7672.0	8.0	163	6.2	353	11.6	11.0	4 *
* 7674.0	9.1	138	6.2	351	11.2	10.9	2 *
* 7676.0	25.7	238	6.2	352	11.2	10.8	3 *
* 7678.0	12.1	203	6.2	352	11.2	10.8	4 *
* 7680.0	13.2	189	6.2	351	11.0	10.7	4 *
* 7682.0	12.6	185	6.2	350	10.9	10.6	1 *
* 7684.0	12.2	176	6.2	350	10.9	10.5	4 *
* 7686.0	13.3	175	6.3	352	11.0	10.4	4 *
* 7688.0	11.0	187	6.3	352	11.0	10.4	4 *
* 7690.0	10.1	191	6.4	351	11.0	10.4	1 *
* 7692.0	10.6	201	6.4	353	11.1	10.4	4 *
* 7694.0	10.3	195	6.5	353	11.4	10.4	4 *
* 7696.0	10.5	187	6.7	351	11.5	10.6	4 *
* 7698.0			6.9	352	11.5	10.6	4 *
* 7700.0	9.3	170	6.6	353	11.9	10.6	4 *
* 7702.0	10.9	177	6.3	352	11.6	10.6	4 *
* 7704.0	9.9	182	6.3	354	11.6	10.5	4 *
* 7706.0	9.8	194	6.2	356	11.8	10.5	4 *
* 7708.0	11.3	182	6.2	354	11.6	10.5	1 *
* 7710.0	9.9	195	6.3	353	11.4	10.5	4 *
* 7712.0	9.9	199	6.2	354	11.3	10.5	4 *
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* FORMATION *					* BOREHOLE		* QUAL. *		
* ----- * INDEX *									
* DEPTH *	* DIP	DIP	* DEV.	DEV.	DIAM	DIAM	* BEST *		
		AZI.		AZI.	1-3	2-4	* =4 *		
*****									
* 7714.0	9.5	198	6.2	356	11.3	10.5	4	*	*
* 7716.0	10.8	191	6.2	357	11.7	10.6	4	*	*
* 7718.0	9.0	192	6.2	356	11.6	10.5	2	*	*
* 7720.0	9.2	195	6.2	353	11.1	10.4	4	*	*
* 7722.0	12.4	182	6.2	353	11.1	10.4	4	*	*
* 7724.0	12.2	191	6.2	352	10.9	10.3	4	*	*
* 7726.0	12.0	189	6.2	351	10.6	10.2	4	*	*
* 7728.0	13.5	182	6.1	352	10.7	10.1	4	*	*
* 7730.0	13.3	181	6.2	353	10.9	10.2	4	*	*
* 7732.0	11.0	177	6.2	351	11.0	10.3	4	*	*
* 7734.0	10.5	177	6.3	349	11.0	10.3	4	*	*
* 7736.0	11.7	193	6.2	350	11.0	10.4	4	*	*
* 7738.0	14.2	198	6.2	351	11.1	10.4	4	*	*
* 7740.0	15.0	189	6.2	351	11.2	10.5	4	*	*
* 7742.0	13.3	185	6.2	350	11.2	10.5	4	*	*
* 7744.0	14.6	178	6.2	350	11.1	10.5	4	*	*
* 7746.0	15.0	170	6.2	351	11.4	10.5	4	*	*
* 7748.0	11.8	165	6.2	353	12.1	10.6	4	*	*
* 7750.0	14.4	163	6.2	354	12.2	10.8	4	*	*
* 7752.0	15.3	168	6.3	354	11.8	10.8	4	*	*
* 7754.0	12.5	182	6.3	353	11.6	10.9	4	*	*
* 7756.0	7.4	227	6.3	353	11.9	10.9	4	*	*
* 7758.0	8.8	189	6.3	353	11.9	10.9	4	*	*
* 7760.0	8.9	180	6.4	352	11.6	10.9	4	*	*
* 7762.0	8.6	194	6.4	353	11.5	10.8	4	*	*
* 7764.0	9.0	192	6.4	352	11.5	10.8	4	*	*
* 7766.0	7.6	222	6.4	352	11.5	10.8	4	*	*
* 7768.0	11.0	272	6.4	352	11.5	10.8	3	*	*
* 7770.0	11.5	177	6.4	353	11.4	10.9	4	*	*
* 7772.0	12.3	171	6.4	354	11.4	10.8	4	*	*
* 7774.0	11.3	182	6.4	354	11.3	10.8	4	*	*
* 7776.0	11.6	182	6.4	352	12.1	10.8	4	*	*
* 7778.0	10.1	176	6.4	348	12.3	10.6	4	*	*
* 7780.0	9.8	175	6.4	348	11.2	10.7	4	*	*
* 7782.0	10.6	180	6.4	349	11.0	10.6	4	*	*
* 7784.0	10.2	182	6.4	349	10.8	10.5	4	*	*
* 7786.0	9.8	181	6.4	349	10.7	10.4	4	*	*
* 7788.0	11.7	179	6.3	349	10.6	10.4	4	*	*
* 7790.0	12.4	176	6.3	348	10.6	10.4	4	*	*
* 7792.0	16.4	176	6.4	347	10.5	10.5	4	*	*
* 7794.0	14.4	172	6.3	347	10.4	10.4	4	*	*
* 7796.0	15.5	174	6.3	346	10.3	10.3	4	*	*
* 7798.0	16.4	175	6.3	348	10.3	10.4	4	*	*
* 7800.0	11.8	179	6.2	349	10.3	10.4	4	*	*
* 7802.0	11.8	178	6.2	350	10.4	10.4	4	*	*
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*          * FORMATION *          * BOREHOLE *          * QUAL *
*          * ----- *          * ----- *          * INDEX *
* DEPTH *  *  DIP    *  *  DIP    *  *  DEV.  *  *  DEV.  *  *  DIAM  *  *  DIAM  *  *  BEST *
*          *          *  *  AZI.  *  *  AZI.  *  *  1-3   *  *  2-4   *  *  #4   *
*****
* 7804.0  * 11.5   * 179   * 6.2   * 350   * 10.4  * 10.5  * 4   *
* 7806.0  * 11.5   * 183   * 6.2   * 350   * 10.4  * 10.5  * 4   *
* 7808.0  * 11.7   * 184   * 6.2   * 350   * 10.4  * 10.5  * 4   *
* 7810.0  * 10.6   * 186   * 6.2   * 351   * 10.4  * 10.6  * 4   *
* 7812.0  *          *          * 6.2   * 352   * 10.4  * 10.6  * 4   *
* 7814.0  * 10.3   * 174   * 6.2   * 355   * 10.4  * 10.6  * 2   *
* 7816.0  * 9.8    * 193   * 6.2   * 357   * 10.5  * 10.8  * 4   *
* 7818.0  * 9.3    * 187   * 6.2   * 357   * 10.5  * 10.8  * 4   *
* 7820.0  * 10.2   * 188   * 6.2   * 357   * 10.5  * 10.7  * 4   *
* 7822.0  * 10.9   * 187   * 6.2   * 356   * 10.5  * 10.8  * 4   *
* 7824.0  * 8.8    * 179   * 6.2   * 354   * 10.5  * 10.7  * 4   *
* 7826.0  * 9.7    * 180   * 6.3   * 354   * 10.4  * 10.6  * 4   *
* 7828.0  * 15.1   * 184   * 6.3   * 353   * 10.5  * 10.7  * 4   *
* 7830.0  * 13.4   * 176   * 6.3   * 354   * 10.6  * 10.8  * 4   *
* 7832.0  * 10.2   * 184   * 6.2   * 353   * 10.5  * 10.8  * 4   *
* 7834.0  * 9.1    * 185   * 6.2   * 351   * 10.5  * 10.7  * 4   *
* 7836.0  * 9.8    * 185   * 6.3   * 349   * 10.4  * 10.5  * 4   *
* 7838.0  * 9.1    * 187   * 6.2   * 351   * 10.4  * 10.5  * 4   *
* 7840.0  * 12.9   * 183   * 6.2   * 354   * 10.4  * 10.5  * 4   *
* 7842.0  * 15.1   * 180   * 6.2   * 353   * 10.4  * 10.5  * 4   *
* 7844.0  * 14.0   * 172   * 6.2   * 353   * 10.4  * 10.4  * 4   *
* 7846.0  * 15.2   * 192   * 6.2   * 354   * 10.4  * 10.5  * 4   *
* 7848.0  * 15.6   * 191   * 6.2   * 354   * 10.3  * 10.4  * 4   *
* 7850.0  * 8.3    * 199   * 6.2   * 355   * 10.3  * 10.3  * 2   *
* 7852.0  * 11.0   * 201   * 6.2   * 355   * 10.4  * 10.2  * 4   *
* 7854.0  * 13.3   * 192   * 6.2   * 354   * 10.4  * 10.2  * 4   *
* 7856.0  * 13.4   * 179   * 6.2   * 355   * 10.3  * 10.2  * 4   *
* 7858.0  * 14.5   * 180   * 6.2   * 356   * 10.3  * 10.2  * 4   *
* 7860.0  * 10.7   * 190   * 6.3   * 356   * 10.4  * 10.3  * 4   *
* 7862.0  * 10.3   * 192   * 6.3   * 355   * 10.4  * 10.3  * 4   *
* 7864.0  * 12.1   * 191   * 6.3   * 354   * 10.3  * 10.2  * 4   *
* 7866.0  * 18.2   * 200   * 6.3   * 354   * 10.3  * 10.2  * 4   *
* 7868.0  * 18.1   * 198   * 6.3   * 355   * 10.4  * 10.2  * 4   *
* 7870.0  * 11.7   * 183   * 6.3   * 356   * 10.4  * 10.3  * 4   *
* 7872.0  * 10.0   * 183   * 6.3   * 358   * 10.4  * 10.3  * 4   *
* 7874.0  * 9.3    * 181   * 6.3   * 357   * 10.4  * 10.4  * 4   *
* 7876.0  * 9.3    * 187   * 6.3   * 356   * 10.4  * 10.4  * 4   *
* 7878.0  * 8.9    * 181   * 6.4   * 356   * 10.4  * 10.4  * 4   *
* 7880.0  * 7.6    * 178   * 6.3   * 355   * 10.4  * 10.4  * 4   *
* 7882.0  * 10.0   * 187   * 6.3   * 354   * 10.4  * 10.4  * 4   *
* 7884.0  * 10.8   * 184   * 6.3   * 353   * 10.3  * 10.3  * 4   *
* 7886.0  * 22.3   * 156   * 6.3   * 354   * 10.2  * 10.3  * 4   *
* 7888.0  * 27.7   * 157   * 6.4   * 354   * 10.2  * 10.2  * 4   *
* 7890.0  * 25.4   * 153   * 6.4   * 353   * 10.2  * 10.2  * 4   *
* 7892.0  * 21.3   * 168   * 6.3   * 353   * 10.1  * 10.1  * 4   *
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* * * * *	FORMATION			BOREHOLE			* QUAL. *	
* * * * *	-----							* INDEX *
* DEPTH *	DIP	DIP	DEV.	DEV.	DIAM	DIAM	* BEST *	
* * * * *	* * * * *	AZI.	* * * * *	AZI.	1-3	2-4	* =4 *	
*****								
* 7894.0	21.7	168	6.3	354	10.2	10.2	4 *	
* 7896.0	24.0	164	6.4	354	10.2	10.3	4 *	
* 7898.0	26.8	170	6.4	355	10.2	10.3	4 *	
* 7900.0	26.4	169	6.4	355	10.2	10.3	4 *	
* 7902.0	25.5	163	6.4	354	10.3	10.4	4 *	
* 7904.0	24.1	156	6.4	354	10.3	10.4	2 *	
* 7906.0	18.8	148	6.4	354	10.2	10.3	2 *	
* 7908.0	15.8	171	6.4	354	10.2	10.4	2 *	
* 7910.0	19.1	170	6.4	353	10.3	10.4	4 *	
* 7912.0	21.0	169	6.4	354	10.3	10.4	2 *	
* 7914.0	18.8	170	6.4	355	10.3	10.4	4 *	
* 7916.0	17.0	169	6.4	354	10.4	10.4	4 *	
* 7918.0	16.7	170	6.4	355	10.4	10.4	4 *	
* 7920.0	19.2	169	6.4	355	10.5	10.4	4 *	
* 7922.0	19.6	177	6.4	356	10.5	10.5	4 *	
* 7924.0	19.2	177	6.4	357	10.6	10.5	4 *	
* 7926.0	15.6	152	6.5	358	10.6	10.6	4 *	
* 7928.0	15.3	155	6.5	358	10.6	10.6	4 *	
* 7930.0	16.8	179	6.4	358	10.6	10.6	4 *	
* 7932.0	16.5	180	6.4	357	10.6	10.6	4 *	
* 7934.0	15.9	180	6.5	355	10.6	10.6	4 *	
* 7936.0	17.0	172	6.5	356	10.5	10.5	2 *	
* 7938.0	15.8	175	6.5	356	10.5	10.4	4 *	
* 7940.0	13.4	190	6.5	355	10.5	10.4	4 *	
* 7942.0	13.5	196	6.5	355	10.5	10.5	4 *	
* 7944.0	15.6	168	6.5	354	10.6	10.5	4 *	
* 7946.0	17.9	167	6.5	353	10.6	10.5	4 *	
* 7948.0	20.1	168	6.5	353	10.5	10.5	4 *	
* 7950.0	17.6	176	6.6	354	10.5	10.4	4 *	
* 7952.0	16.6	176	6.6	354	10.6	10.4	4 *	
* 7954.0	16.7	174	6.6	353	10.6	10.4	4 *	
* 7956.0	20.2	175	6.6	351	10.7	10.5	4 *	
* 7958.0	18.1	173	6.6	351	10.7	10.5	4 *	
* 7960.0	16.8	184	6.6	351	10.7	10.4	4 *	
* 7962.0	17.5	184	6.6	350	10.9	10.5	4 *	
* 7964.0	18.6	177	6.6	350	11.0	10.5	4 *	
* 7966.0	18.5	162	6.7	350	11.0	10.5	4 *	
* 7968.0	13.3	169	6.7	350	11.0	10.4	4 *	
* 7970.0	14.2	166	6.7	351	11.0	10.4	4 *	
* 7972.0	14.2	177	6.7	351	11.1	10.4	4 *	
* 7974.0	14.5	179	6.8	351	11.1	10.5	4 *	
* 7976.0	12.9	181	6.8	352	11.0	10.5	3 *	
* 7978.0	11.4	203	6.8	351	11.1	10.5	3 *	
* 7980.0	11.2	207	6.8	351	11.0	10.5	3 *	
* 7982.0	19.6	196	6.9	351	10.9	10.5	3 *	

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* FORMATION *					* BOREHOLE		* QUAL. *		
*****									
* DEPTH *	* DIP	DIP	* DEV.	DEV.	DIAM	DIAM	* BEST	* INDEX *	
* * *	* * *	AZI.	* * *	AZI.	1-3	2-4	* * *	* =4 *	
*****									
* 7984.0	27.4	148	* 6.9	351	10.8	10.5	3	*	
* 7986.0	24.4	132	* 6.9	351	10.7	10.5	3	*	
* 7988.0	21.3	131	* 6.9	351	10.7	10.5	3	*	
* 7990.0	19.7	134	* 6.9	351	10.7	10.5	3	*	
* 7992.0			* 6.9	351	10.7	10.5		*	
* 7994.0			* 6.9	352	10.6	10.6		*	
* 7996.0			* 6.9	353	10.6	10.6		*	
* 7998.0			* 6.8	352	10.6	10.6		*	
* 8000.0	19.9	126	* 6.8	351	10.5	10.5	4	*	
* 8002.0	25.0	125	* 6.8	349	10.5	10.5	4	*	
* 8004.0	26.6	125	* 6.8	349	10.5	10.6	4	*	
* 8006.0	26.9	124	* 6.8	349	10.5	10.7	4	*	
* 8008.0	28.7	123	* 6.8	350	10.5	10.7	4	*	
* 8010.0	26.9	133	* 6.8	350	10.4	10.7	4	*	
* 8012.0	33.5	129	* 6.8	350	10.4	10.7	4	*	
* 8014.0	35.1	120	* 6.8	350	10.5	10.7	2	*	
* 8016.0	31.7	138	* 6.8	349	10.5	10.7	4	*	
* 8018.0	29.0	128	* 6.8	348	10.5	10.7	4	*	
* 8020.0	29.1	128	* 6.8	348	10.5	10.7	4	*	
* 8022.0	29.7	140	* 6.8	349	10.6	10.7	4	*	
* 8024.0	29.0	136	* 6.8	350	10.6	10.6	2	*	
* 8026.0	35.0	139	* 6.8	351	10.7	10.6	4	*	
* 8028.0	33.9	137	* 6.8	352	10.8	10.7	4	*	
* 8030.0			* 6.8	353	10.9	10.7		*	
* 8032.0	33.0	152	* 6.8	353	10.9	10.8	4	*	
* 8034.0	31.0	151	* 6.9	353	10.9	10.8	4	*	
* 8036.0	38.2	167	* 6.8	353	10.8	10.6	2	*	
* 8038.0	34.0	161	* 6.8	354	10.8	10.5	4	*	
* 8040.0	32.0	158	* 6.8	353	10.6	10.3	4	*	
* 8042.0	31.0	155	* 6.8	353	10.6	10.2	2	*	
* 8044.0	34.6	150	* 6.8	352	10.4	10.1	4	*	
* 8046.0	21.0	172	* 6.8	352	10.1	10.0	3	*	
* 8048.0	19.1	173	* 6.8	354	10.0	10.0	3	*	
* 8050.0	20.8	171	* 6.9	355	9.8	9.8	3	*	
* 8052.0	21.8	168	* 6.9	357	9.7	9.7	4	*	
* 8054.0	22.1	165	* 7.0	358	9.8	9.8	4	*	
* 8056.0	21.8	167	* 7.0	357	10.0	10.0	4	*	
* 8058.0	21.7	172	* 7.1	357	9.9	9.9	4	*	
* 8060.0	22.6	166	* 7.5	358	9.8	9.9	4	*	
* 8062.0	25.7	168	* 7.4	359	9.9	10.0	4	*	
* 8064.0	24.3	171	* 6.9	0	9.8	9.9	4	*	
* 8066.0	23.6	176	* 6.8	0	9.7	9.8	4	*	
* 8068.0	25.9	179	* 6.8	1	9.8	9.8	4	*	
* 8070.0	26.2	180	* 6.8	1	9.9	10.0	4	*	
* 8072.0			* 6.8	360	9.8	10.0		*	
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* FORMATION *	* BOREHOLE *		* QUAL. *			* INDEX *	
* DEPTH *	* DIP *	DIP	* DEV. *	DEV.	DIAM	DIAM	* BEST *
		AZI.		AZI.	1-3	2-4	* #4 *
*****							
* 8074.0	17.7	172	6.8	360	9.7	9.8	4 *
* 8076.0	17.1	180	6.8	1	9.7	9.8	4 *
* 8078.0	17.2	180	6.8	1	9.7	9.8	4 *
* 8080.0	18.6	180	6.8	0	9.7	9.8	4 *
* 8082.0	17.2	180	6.8	360	9.7	9.9	4 *
* 8084.0	15.4	182	6.8	0	9.8	9.9	4 *
* 8086.0	14.5	176	6.8	1	9.9	10.0	4 *
* 8088.0	14.5	174	6.8	1	9.8	10.0	4 *
* 8090.0	16.2	183	6.8	1	9.7	9.9	4 *
* 8092.0	17.0	187	6.8	1	9.7	9.8	4 *
* 8094.0	17.3	185	6.8	1	9.8	10.0	4 *
* 8096.0	17.0	181	6.8	1	9.8	9.9	4 *
* 8098.0	16.4	187	6.8	360	9.7	9.9	4 *
* 8100.0	18.5	192	6.8	1	9.9	10.0	4 *
* 8102.0	17.4	192	6.8	2	9.8	10.0	4 *
* 8104.0	18.3	191	6.8	2	10.0	10.0	4 *
* 8106.0	20.9	183	6.8	360	10.1	10.2	4 *
* 8108.0	20.4	176	6.8	357	9.9	10.2	4 *
* 8110.0	22.8	163	6.8	356	9.7	10.0	4 *
* 8112.0	26.1	164	6.8	358	9.7	9.9	4 *
* 8114.0	25.9	165	6.8	357	9.9	9.9	2 *
* 8116.0	24.2	171	6.8	357	10.0	10.1	4 *
* 8118.0	23.2	162	6.8	357	10.1	10.2	4 *
* 8120.0	22.4	159	6.8	357	10.2	10.4	4 *
* 8122.0	24.2	176	6.8	358	10.3	10.5	3 *
* 8124.0	24.2	168	6.8	357	10.3	10.4	3 *
* 8126.0	29.2	181	6.8	357	10.3	10.5	1 *
* 8128.0	30.8	187	6.8	358	10.4	10.6	1 *
* 8130.0	35.9	191	6.9	358	10.4	10.5	3 *
* 8132.0	21.8	182	6.9	358	10.3	10.5	1 *
* 8134.0	20.3	177	6.9	359	10.3	10.4	1 *
* 8136.0	21.5	180	6.9	359	10.3	10.5	3 *
* 8138.0	25.9	174	6.9	359	10.3	10.6	3 *
* 8140.0	14.5	182	6.9	359	10.2	10.5	1 *
* 8142.0	18.5	177	6.9	359	10.2	10.5	3 *
* 8144.0	20.4	177	6.9	359	10.2	10.4	3 *
* 8146.0	16.9	177	7.0	0	10.2	10.5	4 *
* 8148.0	16.1	174	6.9	0	10.2	10.5	4 *
* 8150.0	14.8	180	6.9	360	10.4	10.6	4 *
* 8152.0	15.8	175	6.9	359	10.5	10.7	4 *
* 8154.0	14.5	159	6.9	0	10.4	10.7	4 *
* 8156.0	20.6	168	6.9	1	10.3	10.6	2 *
* 8158.0	18.7	165	6.9	2	10.3	10.6	4 *
* 8160.0	15.2	159	6.9	2	10.3	10.6	4 *
* 8162.0	15.0	165	6.9	1	10.3	10.6	4 *
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* FORMATION *					* BOREHOLE *			* QUAL. *	
* ----- * INDEX *									
* DEPTH *	* DIP *	DIP	* DEV. *	DEV.	DIAM	DIAM	* BEST *	*	
* ----- * ----- * ----- * ----- * ----- * ----- * ----- * ----- * ----- *									
		AZI.		AZI.	1-3	2-4	≥4		
* 8164.0	16.5	156	6.9	1	10.2	10.5	4	*	*
* 8166.0	15.7	170	6.9	1	10.2	10.4	4	*	*
* 8168.0	16.4	178	6.9	1	10.2	10.4	4	*	*
* 8170.0	14.9	178	6.9	1	10.2	10.4	4	*	*
* 8172.0	15.0	177	6.9	0	10.1	10.2	4	*	*
* 8174.0	14.7	171	6.9	358	10.0	10.1	4	*	*
* 8176.0	18.2	172	6.9	357	10.0	10.0	4	*	*
* 8178.0	20.6	167	6.9	356	10.1	10.1	3	*	*
* 8180.0	10.6	170	7.0	358	10.1	10.2	4	*	*
* 8182.0	8.0	165	7.0	359	10.1	10.2	4	*	*
* 8184.0	17.0	180	6.9	359	10.1	10.2	4	*	*
* 8186.0	17.9	176	6.9	358	10.1	10.2	4	*	*
* 8188.0	21.1	171	6.9	358	10.1	10.2	4	*	*
* 8190.0	16.2	175	6.9	358	10.1	10.1	4	*	*
* 8192.0	18.0	174	7.0	358	10.1	10.1	2	*	*
* 8194.0	19.7	175	6.9	359	10.0	10.2	1	*	*
* 8196.0			6.9	359	10.1	10.3		*	*
* 8198.0			6.9	360	10.1	10.3		*	*
* 8200.0			6.9	0	10.1	10.3		*	*
* 8202.0			6.9	1	9.9	10.2		*	*
* 8204.0	22.3	187	7.0	0	9.7	10.0	2	*	*
* 8206.0	21.4	189	6.9	359	9.6	9.8	4	*	*
* 8208.0	16.9	188	6.9	356	9.5	9.7	4	*	*
* 8210.0	17.0	183	6.9	355	9.5	9.7	4	*	*
* 8212.0	18.3	178	7.0	356	9.5	9.7	4	*	*
* 8214.0	14.6	183	7.0	358	9.5	9.7	4	*	*
* 8216.0	11.5	188	6.9	357	9.6	9.7	4	*	*
* 8218.0	11.9	191	6.9	357	9.7	9.8	4	*	*
* 8220.0	15.8	174	6.9	357	9.7	9.9	2	*	*
* 8222.0	21.5	173	6.9	357	9.7	9.9	4	*	*
* 8224.0	20.3	185	6.9	356	9.7	9.9	4	*	*
* 8226.0	20.6	179	6.9	354	9.7	9.9	4	*	*
* 8228.0	21.6	179	6.9	352	9.7	9.9	4	*	*
* 8230.0			6.9	350	9.8	10.0		*	*
* 8232.0			7.0	351	9.9	10.0		*	*
* 8234.0			7.0	352	9.9	10.0		*	*
* 8236.0	15.8	180	7.0	352	9.8	10.0	4	*	*
* 8238.0	16.8	176	7.0	351	9.9	10.0	4	*	*
* 8240.0	17.3	174	7.0	352	10.0	10.0	4	*	*
* 8242.0	18.2	171	7.0	352	10.1	10.1	4	*	*
* 8244.0	18.7	167	7.0	351	10.0	10.0	4	*	*
* 8246.0	16.5	173	7.0	352	10.0	10.0	4	*	*
* 8248.0	17.7	181	7.0	351	10.1	10.0	4	*	*
* 8250.0	16.0	180	7.0	351	10.1	10.0	4	*	*
* 8252.0	10.5	170	7.0	352	10.1	10.0	4	*	*

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* FORMATION *					* BOREHOLE *			* QUAL. *	
*****									
* DEPTH *	* DIP	DIP	* DEV.	DEV.	DIAM	DIAM	* BEST	* INDEX *	
* * *	* * *	AZI.	* * *	AZI.	1-3	2-4	* =4	* * *	
*****									
* 8254.0	12.6	173	7.0	351	10.0	10.0	4	*	*
* 8256.0	14.1	172	7.0	350	9.9	9.9	4	*	*
* 8258.0	14.5	175	7.0	351	9.7	9.7	4	*	*
* 8260.0	16.1	180	7.0	352	9.7	9.7	4	*	*
* 8262.0	15.0	162	7.0	352	9.8	9.7	4	*	*
* 8264.0	12.8	149	7.0	351	9.8	9.7	4	*	*
* 8266.0	10.0	153	7.0	351	9.8	9.7	4	*	*
* 8268.0	16.9	177	7.0	352	9.8	9.7	4	*	*
* 8270.0	14.1	174	7.0	352	9.8	9.7	4	*	*
* 8272.0	13.2	174	7.0	352	9.9	9.7	4	*	*
* 8274.0	15.2	172	7.0	352	10.1	9.9	4	*	*
* 8276.0	14.4	171	7.0	353	10.1	10.0	4	*	*
* 8278.0	15.7	181	7.0	353	10.0	9.8	4	*	*
* 8280.0	15.5	181	7.0	353	10.0	9.7	4	*	*
* 8282.0			7.0	352	10.1	9.7		*	*
* 8284.0	15.0	179	7.0	351	10.0	9.7	4	*	*
* 8286.0	14.8	174	7.0	350	9.9	9.7	4	*	*
* 8288.0	13.1	174	7.0	351	9.9	9.7	4	*	*
* 8290.0	13.6	179	7.0	353	10.1	9.7	4	*	*
* 8292.0	13.9	175	7.0	353	10.0	9.7	4	*	*
* 8294.0	13.9	172	7.0	353	10.0	9.7	4	*	*
* 8296.0	13.3	171	7.0	353	10.0	9.7	4	*	*
* 8298.0	19.1	175	7.0	353	10.1	9.7	4	*	*
* 8300.0	14.0	175	7.0	353	10.1	9.7	4	*	*
* 8302.0	14.1	175	7.0	352	10.1	9.8	4	*	*
* 8304.0	17.7	179	7.0	353	10.1	9.8	4	*	*
* 8306.0	21.0	182	7.0	353	10.1	9.8	4	*	*
* 8308.0	13.6	175	7.0	353	10.1	9.7	4	*	*
* 8310.0	12.9	176	7.0	353	10.1	9.8	4	*	*
* 8312.0	13.5	172	7.0	353	10.0	9.8	4	*	*
* 8314.0	14.9	170	7.0	352	9.9	9.7	4	*	*
* 8316.0	15.2	172	7.0	351	9.8	9.6	4	*	*
* 8318.0	16.2	166	7.0	350	9.8	9.6	4	*	*
* 8320.0	13.4	164	7.0	349	9.8	9.7	4	*	*
* 8322.0	10.8	156	7.0	349	9.9	9.7	4	*	*
* 8324.0	14.6	131	7.0	349	10.0	9.7	4	*	*
* 8326.0	20.7	135	7.0	349	10.1	9.8	4	*	*
* 8328.0	5.0	180	7.0	347	10.1	9.9	2	*	*
* 8330.0	7.3	180	7.0	346	10.0	9.8	4	*	*
* 8332.0	13.4	184	7.0	347	10.0	9.7	4	*	*
* 8334.0	17.1	201	7.0	349	10.0	9.8	4	*	*
* 8336.0	14.6	182	7.1	350	10.1	9.8	4	*	*
* 8338.0	14.0	174	7.1	351	10.2	9.9	4	*	*
* 8340.0	24.7	170	7.1	352	10.4	10.1	2	*	*
* 8342.0	11.0	198	7.1	353	10.6	10.2	4	*	*





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FORMATION			BOREHOLE				QUAL.
DEPTH	DIP	DIP	DEV.	DEV.	DIAM	DIAM	INDEX
		AZI.		AZI.	1-3	2-4	BEST
							#4
* 8524.0	21.9	182	7.3	357	9.5	9.6	4 *
* 8526.0	19.3	173	7.4	356	9.5	9.6	4 *
* 8528.0	21.2	169	7.6	356	9.5	9.7	4 *
* 8530.0	21.4	170	7.8	357	9.6	9.8	4 *
* 8532.0	20.8	168	8.1	357	9.6	9.9	4 *
* 8534.0	21.7	162	7.8	356	9.6	9.9	4 *
* 8536.0	22.1	158	7.2	356	9.6	9.8	4 *
* 8538.0	20.5	187	7.2	356	9.6	9.7	2 *
* 8540.0	15.9	169	7.2	356	9.6	9.7	4 *
* 8542.0	14.9	172	7.2	355	9.6	9.7	4 *
* 8544.0	15.3	163	7.2	356	9.6	9.7	4 *
* 8546.0	15.7	157	7.2	356	9.7	9.8	4 *
* 8548.0	16.0	153	7.2	356	9.7	9.8	4 *
* 8550.0	16.1	166	7.2	357	9.7	9.9	4 *
* 8552.0	16.3	167	7.3	357	9.7	9.9	4 *
* 8554.0	15.8	180	7.3	356	9.7	9.9	4 *
* 8556.0	13.4	169	7.3	356	9.8	10.0	4 *
* 8558.0	8.5	163	7.2	357	9.8	10.0	4 *
* 8560.0	7.9	168	7.3	357	9.8	10.0	4 *
* 8562.0	7.2	193	7.3	356	9.8	10.0	4 *
* 8564.0	9.4	172	7.3	356	9.8	9.9	4 *
* 8566.0	9.5	167	7.2	356	9.7	9.9	4 *
* 8568.0	16.9	147	7.3	356	9.7	9.9	4 *
* 8570.0	13.5	161	7.3	356	9.7	9.9	4 *
* 8572.0	17.9	159	7.2	356	9.7	9.9	4 *
* 8574.0	17.2	155	7.2	356	9.7	9.8	4 *
* 8576.0	11.6	141	7.1	357	9.6	9.7	4 *
* 8578.0	11.6	147	7.1	357	9.6	9.7	4 *
* 8580.0	13.9	154	7.3	357	9.6	9.7	4 *
* 8582.0	18.4	186	7.3	358	9.6	9.7	2 *
* 8584.0	12.8	165	7.3	358	9.5	9.7	4 *
* 8586.0	12.5	163	7.3	356	9.6	9.7	4 *
* 8588.0	11.9	161	7.3	356	9.7	9.7	4 *
* 8590.0	13.2	174	7.3	357	9.6	9.7	4 *
* 8592.0	10.5	150	7.3	358	9.6	9.6	2 *
* 8594.0	16.4	175	7.3	357	9.6	9.7	4 *
* 8596.0	12.6	162	7.3	356	9.6	9.7	4 *
* 8598.0	11.7	164	7.4	356	9.5	9.7	4 *
* 8600.0	13.7	186	7.4	356	9.5	9.6	4 *
* 8602.0	17.9	187	7.4	357	9.5	9.6	4 *
* 8604.0	14.6	180	7.4	357	9.6	9.6	4 *
* 8606.0	13.3	178	7.4	357	9.8	9.6	2 *
* 8608.0	11.6	155	7.4	356	9.8	9.7	2 *
* 8610.0			7.3	357	9.6	9.7	*
* 8612.0	26.9	183	7.3	357	9.6	9.7	2 *

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*****							
* FORMATION *				* BUREHOLE		* QUAL. *	
*****							
* DEPTH *	* DIP	DIP	* DEV.	DEV.	DIAM	DIAM	* BEST *
* * *	* * *	AZI.	* * *	AZI.	1-3	2-4	* =4 *
*****							
* 8794.0	15.8	165	7.6	356	9.6	10.3	1 *
* 8796.0			7.7	355	9.6	10.3	1 *
* 8798.0	8.3	187	7.7	355	9.6	10.2	3 *
* 8800.0	11.5	171	7.7	355	9.6	10.1	3 *
* 8802.0	10.6	175	7.7	355	9.6	10.1	1 *
* 8804.0			7.6	356	9.6	10.2	1 *
* 8806.0	13.8	180	7.7	356	9.7	10.3	1 *
* 8808.0			7.7	356	9.7	10.4	1 *
* 8810.0	18.0	203	7.6	356	9.7	10.4	1 *
* 8812.0			7.7	356	9.7	10.4	1 *
* 8814.0			7.7	356	9.7	10.4	1 *
* 8816.0	11.6	203	7.7	355	9.7	10.4	1 *
* 8818.0			7.7	355	9.7	10.4	1 *
* 8820.0			7.7	355	9.7	10.4	1 *
* 8822.0	17.6	169	7.7	356	9.6	10.4	1 *
* 8824.0	18.0	175	7.7	356	9.6	10.4	1 *
* 8826.0	16.8	174	7.7	356	9.6	10.3	3 *
* 8828.0	15.2	178	7.7	356	9.6	10.3	3 *
* 8830.0	13.7	207	7.7	356	9.6	10.2	1 *
* 8832.0			7.7	355	9.6	10.1	1 *
* 8834.0	19.1	164	7.7	355	9.6	10.1	1 *
* 8836.0			7.7	354	9.5	10.1	1 *
* 8838.0			7.7	354	9.6	10.1	1 *
* 8840.0			7.7	355	9.6	10.2	1 *
* 8842.0	26.8	194	7.7	356	9.6	10.2	1 *
* 8844.0	20.9	199	7.7	355	9.6	10.2	1 *
* 8846.0			7.7	355	9.5	10.1	1 *
* 8848.0	22.4	211	7.6	356	9.5	10.1	1 *
* 8850.0	19.5	205	7.6	356	9.5	10.2	3 *
* 8852.0	20.0	205	7.6	356	9.5	10.2	3 *
* 8854.0	23.5	190	7.6	355	9.5	10.2	1 *
* 8856.0			7.7	356	9.4	10.1	1 *
* 8858.0	37.4	188	7.7	356	9.4	10.0	1 *
* 8860.0	37.9	192	7.6	356	9.4	10.0	1 *
* 8862.0	25.2	189	7.6	356	9.4	10.0	1 *
* 8864.0			7.7	355	9.4	10.0	1 *
* 8866.0	16.9	177	7.7	355	9.4	10.0	1 *
* 8868.0	17.5	175	7.6	354	9.3	10.0	1 *
* 8870.0	15.7	179	7.6	354	9.4	10.0	1 *
* 8872.0	17.8	170	7.6	355	9.3	10.0	1 *
* 8874.0	15.0	191	7.6	355	9.3	10.0	3 *
* 8876.0	15.0	159	7.6	355	9.3	10.0	3 *
* 8878.0	17.7	151	7.6	356	9.3	10.1	3 *
* 8880.0			7.6	356	9.4	10.1	1 *
* 8882.0			7.6	356	9.4	10.1	1 *

*****									
* FORMATION *					* BOREHOLE		* QUAL. *		
*****									
* DEPTH *	* DIP	DIP	* DEV.	DEV.	DIAM	DIAM	* BEST	* INDEX *	
*****									
* * *	* * *	AZI.	* * *	AZI.	1-3	2-4	* * *	* =4 *	
*****									
* 8884.0	18.1	160	* 7.6	356	9.3	10.1	1	*	
* 8886.0	20.6	171	* 7.7	356	9.3	10.1	3	*	
* 8888.0			* 7.7	355	9.3	10.1		*	
* 8890.0			* 7.7	356	9.3	10.1		*	
* 8892.0			* 7.6	356	9.3	10.1		*	
* 8894.0	21.7	188	* 7.7	355	9.3	10.1	1	*	
* 8896.0	20.7	180	* 7.7	355	9.3	10.1	3	*	
* 8898.0	20.6	180	* 7.7	356	9.3	10.1	3	*	
* 8900.0			* 7.7	356	9.3	10.1		*	
* 8902.0			* 7.7	355	9.3	10.1		*	
* 8904.0			* 7.8	355	9.2	10.2		*	
* 8906.0	20.8	195	* 7.8	355	9.2	10.3	1	*	
* 8908.0	21.0	197	* 7.8	355	9.2	10.3	1	*	
* 8910.0			* 7.8	355	9.2	10.3		*	
* 8912.0			* 7.7	355	9.2	10.3		*	
* 8914.0			* 7.6	355	9.2	10.4		*	
* 8916.0			* 7.6	354	9.2	10.4		*	
* 8918.0			* 7.6	355	9.2	10.5		*	
* 8920.0	8.0	143	* 7.6	355	9.1	10.4	1	*	
* 8922.0			* 7.6	355	9.1	10.4		*	
* 8924.0			* 7.6	355	9.1	10.4		*	
* 8926.0	3.5	182	* 7.6	355	9.1	10.3	3	*	
* 8928.0			* 7.6	355	9.1	10.3		*	
* 8930.0			* 7.6	355	9.0	10.4		*	
* 8932.0			* 7.6	356	9.0	10.4		*	
* 8934.0			* 7.6	355	9.0	10.5		*	
* 8936.0			* 7.6	354	9.0	10.7		*	
* 8938.0	32.1	203	* 7.6	355	8.9	10.8	1	*	
* 8940.0	33.6	204	* 7.6	355	8.8	10.9	1	*	
* 8942.0			* 7.6	355	8.8	11.1		*	
* 8944.0	25.9	205	* 7.6	355	8.8	11.3	1	*	
* 8946.0			* 7.5	355	8.7	11.4		*	
* 8948.0			* 7.5	355	8.6	11.5		*	
* 8950.0			* 7.6	355	8.6	11.7		*	
* 8952.0			* 7.6	355	8.5	11.7		*	
* 8954.0			* 7.6	354	8.5	11.7		*	
* 8956.0	27.3	210	* 7.6	355	8.5	11.7	1	*	
* 8958.0			* 7.7	354	8.5	11.8		*	
* 8960.0			* 7.6	353	8.4	12.0		*	
* 8962.0			* 7.7	354	8.4	12.1		*	
* 8964.0			* 7.7	355	8.4	12.2		*	
* 8966.0	24.9	206	* 7.6	355	8.4	12.5	3	*	
* 8968.0	24.7	208	* 7.5	356	8.4	12.9	3	*	
* 8970.0	22.7	205	* 7.5	356	8.5	13.4	1	*	
* 8972.0			* 7.4	356	8.5	13.7		*	

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*****							
* FORMATION *				* BOREHOLE		* QUAL. *	
*****							
* DEPTH *	* DIP	DIP	* DEV.	DEV.	DIAM	DIAM	* BEST *
		AZI.		AZI.	1-3	2-4	* =4 *
*****							
* 8974.0			7.4	355	8.6	14.0	
* 8976.0	13.6	158	7.4	356	8.6	14.4	1
* 8978.0			7.3	356	8.6	14.7	
* 8980.0			7.3	356	9.0	15.2	
* 8982.0			7.3	357	9.4	15.7	
* 8984.0			7.3	356	9.6	16.1	
* 8986.0			7.4	354	9.7	16.4	
* 8988.0			7.3	352	10.8	16.8	
* 8990.0			7.1	354	13.5	16.5	
* 8992.0	11.0	144	7.1	356	14.3	13.9	1
* 8994.0			7.3	355	10.9	10.5	
* 8996.0			7.7	352	8.4	9.6	
* 8998.0			7.8	347	8.8	10.5	
* 9000.0			7.8	348	10.6	11.7	
* 9002.0			7.8	355	12.2	12.3	
* 9004.0			7.8	356	12.7	13.3	
* 9006.0			7.8	355	12.8	13.9	
* 9008.0	7.6	171	7.8	355	12.9	14.0	1
* 9010.0			7.6	356	13.1	14.3	
* 9012.0	6.7	173	7.4	356	12.6	14.0	3
* 9014.0	6.8	172	7.6	355	12.6	14.2	3
* 9016.0			7.7	354	13.4	15.6	
* 9018.0			7.6	355	13.7	16.0	
* 9020.0			7.6	354	14.0	16.1	
* 9022.0	71.0	241	7.5	354	13.9	16.2	1
* 9024.0	8.7	210	7.4	353	13.7	16.6	3
* 9026.0			7.3	350	13.8	17.1	
* 9028.0			7.2	351	13.6	17.5	
* 9030.0			7.0	354	14.6	17.5	
* 9032.0			7.0	356	16.8	17.5	
* 9034.0			7.0	357	18.0	17.9	
* 9036.0			7.1	356	18.0	18.0	
* 9038.0	7.3	173	7.3	356	18.0	18.0	3
* 9040.0			7.5	355	17.1	18.0	
* 9042.0			7.5	354	16.3	18.0	
* 9044.0			7.7	352	16.1	18.0	
* 9046.0			7.8	351	15.9	17.9	
* 9048.0			7.8	350	15.1	17.7	
* 9050.0	11.3	136	7.9	348	13.4	17.2	1
* 9052.0			8.0	347	11.8	16.8	
* 9054.0			7.9	348	11.2	16.8	
* 9056.0			7.8	350	10.3	16.3	
* 9058.0			7.8	350	8.8	15.9	
* 9060.0			7.8	351	9.2	16.1	
* 9062.0			7.9	352	11.1	16.5	
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*****
*          * FORMATION *          * BOREHOLE *          * QUAL. *
*          *-----*          *-----*          * INDEX *
* DEPTH *  DIP   DIP   *  DEV.  DEV.  DIAM  DIAM  * BEST *
*          *     AZI. *     AZI.  1-3  2-4  *  # 24 *
*****
* 9064.0          *          * 8.0   352   12.7  17.0 *
* 9066.0          *          * 7.9   353   14.3  17.5 *
* 9068.0          *          * 7.9   353   15.4  17.8 *
* 9070.0          *          * 7.9   353   15.1  17.9 *
* 9072.0          *          * 7.9   352   14.6  17.8 *
* 9074.0          *          * 7.9   351   13.5  17.5 *
* 9076.0          *          * 7.8   350   12.7  17.6 *
* 9078.0          *          * 7.9   351   13.1  17.9 *
* 9080.0   51.8    41    * 8.0   353   13.8  17.8 *
* 9082.0   76.9   106   * 8.0   353   14.6  17.8 *
* 9084.0          *          * 8.0   353   15.1  17.9 *
* 9086.0          *          * 8.0   352   14.9  18.0 *
* 9088.0   56.6    41    * 8.0   350   14.8  18.0 *
* 9090.0          *          * 8.0   351   14.8  17.9 *
* 9092.0          *          * 8.0   352   14.6  17.9 *
* 9094.0          *          * 8.0   351   14.5  17.9 *
* 9096.0          *          * 8.0   350   14.2  18.0 *
* 9098.0          *          * 8.0   349   13.4  18.0 *
* 9100.0          *          * 7.9   349   12.3  18.0 *
* 9102.0          *          * 7.9   350   11.1  18.0 *
* 9104.0          *          * 8.0   350   11.5  17.9 *
* 9106.0          *          * 8.0   350   13.1  17.9 *
* 9108.0   61.0    92    * 8.0   350   13.4  18.0 *
* 9110.0   60.8    91    * 8.0   348   13.0  17.9 *
* 9112.0   65.2    86    * 8.0   347   12.1  18.0 *
* 9114.0          *          * 8.1   346   12.4  18.0 *
* 9116.0          *          * 8.2   345   12.6  18.0 *
* 9118.0          *          * 8.1   345   10.6  18.0 *
* 9120.0          *          * 8.1   345   8.1   18.0 *
* 9122.0          *          * 8.2   346   7.5   18.0 *
* 9124.0          *          * 8.1   347   9.8   18.0 *
* 9126.0          *          * 8.1   348   12.8  18.0 *
* 9128.0          *          * 8.1   350   13.5  18.0 *
* 9130.0          *          * 8.2   348   13.3  18.0 *
* 9132.0          *          * 8.1   345   12.2  18.0 *
* 9134.0          *          * 8.1   346   10.8  18.0 *
* 9136.0          *          * 8.0   349   8.4   17.8 *
* 9138.0          *          * 7.9   351   6.9   17.6 *
* 9140.0          *          * 7.9   350   8.4   17.8 *
* 9142.0          *          * 8.0   349   10.0  17.9 *
* 9144.0          *          * 8.0   348   10.6  18.0 *
* 9146.0          *          * 8.0   348   10.6  18.0 *
* 9148.0   67.5   155   * 8.0   350   10.6  18.0 *
* 9150.0          *          * 8.1   350   10.4  18.0 *
* 9152.0          *          * 8.1   349   10.2  18.0 *
*****
    
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*****									
* FORMATION *					BOREHOLE		* QUAL. *		
*****									
* DEPTH *	* DIP	DIP	* DEV.	DEV.	DIAM	DIAM	* BEST	* INDEX *	
*	*	AZI.	*	AZI.	1-3	2-4	* #4	*	
*****									
* 9244.0			8.8	348	15.3	18.0			*
* 9246.0			8.8	347	16.8	18.0			*
* 9248.0			8.8	346	17.4	18.0			*
* 9250.0			8.8	345	15.6	16.9			*
* 9252.0			8.9	345	12.2	15.6			*
* 9254.0			8.9	345	10.8	14.9			*
* 9256.0			8.9	346	10.2	14.9			*
* 9258.0	22.3	152	8.9	348	10.3	15.4	3		*
* 9260.0			9.0	350	10.9	15.7			*
* 9262.0	23.0	156	8.9	349	10.4	15.5	1		*
* 9264.0	20.4	163	8.9	348	8.8	14.8	1		*
* 9266.0	24.9	162	8.8	347	7.8	14.1	1		*
* 9268.0	11.2	311	8.8	346	7.9	13.5	3		*
* 9270.0	11.4	261	8.7	346	8.1	13.1	1		*
* 9272.0	17.3	300	8.7	345	7.9	12.6	1		*
* 9274.0			8.6	346	8.1	12.2			*
* 9276.0			8.6	348	8.3	11.8			*
* 9278.0			8.5	348	8.3	11.4			*
* 9280.0	9.0	259	8.5	346	8.4	11.2	3		*
* 9282.0			8.4	345	8.4	11.2			*
* 9284.0	8.2	262	8.4	345	8.5	11.1	1		*
* 9286.0	7.0	264	8.3	347	8.5	10.9	1		*
* 9288.0	7.2	269	8.3	346	8.6	10.6	3		*
* 9290.0	9.6	241	8.2	343	8.8	10.5	1		*
* 9292.0	12.7	238	8.2	343	8.8	10.4	1		*
* 9294.0			8.1	342	8.8	10.5			*
* 9296.0			8.1	342	8.8	10.5			*
* 9298.0	19.1	211	8.0	342	8.7	10.4	2		*
* 9300.0	25.1	213	8.0	343	8.8	10.2	4		*
* 9302.0	27.9	207	7.9	346	8.9	10.1	4		*
* 9304.0	30.3	207	7.9	347	9.1	10.0	4		*
* 9306.0	28.9	213	7.8	347	9.4	10.4	2		*
* 9308.0			7.8	345	9.4	10.7			*
* 9310.0			7.7	345	8.9	10.7			*
* 9312.0	31.5	222	7.7	346	8.8	10.6	2		*
* 9314.0	27.2	219	7.6	347	8.7	10.6	2		*
* 9316.0	14.5	237	7.6	346	8.7	10.5	1		*
* 9318.0			7.5	346	8.8	10.4			*
* 9320.0			7.5	348	8.8	10.2			*
* 9322.0			7.4	349	8.8	10.3			*
* 9324.0	6.3	275	7.4	349	8.8	10.3	3		*
* 9326.0	5.1	303	7.4	348	8.7	10.4	3		*
* 9328.0	2.6	225	7.4	348	8.7	10.5	1		*
* 9330.0	16.1	293	7.4	348	8.7	10.7	1		*
* 9332.0	4.5	104	7.4	348	8.7	10.9	1		*

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* FORMATION *			* BOREHOLE *				* QUAL. *		
*****									
* DEPTH *	* DIP	DIP	* DEV.	DEV.	DIAM	DIAM	* BEST *	* INDEX *	
*****									
* * *	* * *	AZI.	* * *	AZI.	1-3	2-4	* * *	* * *	
*****									
* 9334.0	3.8	285	7.4	349	8.6	11.0	1	*	
* 9336.0	13.9	296	7.4	348	8.7	11.1	3	*	
* 9338.0	13.9	294	7.4	349	8.9	11.5	1	*	
* 9340.0			7.4	351	9.1	12.5		*	
* 9342.0			7.4	353	9.2	13.4		*	
* 9344.0			7.4	353	9.4	13.6		*	
* 9346.0			7.4	353	9.9	13.8		*	
* 9348.0			7.4	353	9.8	14.1		*	
* 9350.0			7.4	354	9.2	14.4		*	
* 9352.0			7.4	355	9.1	14.5		*	
* 9354.0			7.4	354	9.3	13.9		*	
* 9356.0			7.4	354	9.2	13.3		*	
* 9358.0	7.4	253	7.4	355	9.0	12.9	1	*	
* 9360.0	67.4	179	7.4	355	9.1	12.6	3	*	
* 9362.0			7.4	355	9.0	11.9		*	
* 9364.0			7.4	354	8.9	11.1		*	
* 9366.0			7.4	354	8.9	10.7		*	
* 9368.0			7.4	355	9.0	10.5		*	
* 9370.0	10.2	230	7.4	354	9.0	10.4	1	*	
* 9372.0	14.1	244	7.4	354	8.9	10.5	3	*	
* 9374.0	12.7	234	7.4	354	8.9	10.6	1	*	
* 9376.0	13.3	255	7.4	354	8.8	10.7	2	*	
* 9378.0	13.6	258	7.4	355	8.7	10.7	2	*	
* 9380.0	12.8	251	7.4	357	8.7	10.7	4	*	
* 9382.0	12.8	248	7.4	356	8.8	10.6	4	*	
* 9384.0	12.4	245	7.4	356	8.9	10.3	4	*	
* 9386.0	12.3	247	7.4	356	8.9	10.1	4	*	
* 9388.0	11.9	250	7.4	357	8.9	10.0	4	*	
* 9390.0	12.0	250	7.4	357	8.9	10.1	4	*	
* 9392.0	12.8	248	7.4	358	8.9	10.1	4	*	
* 9394.0	13.2	245	7.4	357	8.9	10.3	4	*	
* 9396.0	12.7	244	7.4	357	8.9	10.1	4	*	
* 9398.0	12.5	243	7.4	357	9.2	10.7	4	*	
* 9400.0			7.4	358	9.9	12.2		*	
* 9402.0			7.4	357	10.3	12.7		*	
* 9404.0	10.2	211	7.4	358	10.2	12.8	2	*	
* 9406.0	15.5	260	7.4	359	9.9	12.7	2	*	
* 9408.0	9.0	241	7.4	358	9.7	12.6	4	*	
* 9410.0	10.0	200	7.4	359	9.4	12.4	2	*	
* 9412.0	10.3	271	7.4	1	9.1	12.4	2	*	
* 9414.0	10.7	244	7.4	3	9.1	12.6	2	*	
* 9416.0	10.0	242	7.4	3	9.1	12.3	4	*	
* 9418.0	9.4	242	7.4	2	9.0	11.5	4	*	
* 9420.0	12.5	238	7.4	2	9.0	11.1	4	*	
* 9422.0	9.9	236	7.4	2	9.0	10.8	4	*	
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*****									
* FORMATION *					* BOREHOLE *			* QUAL. *	
*-----*									
* DEPTH *	* DIP	DIP	* DEV.	DEV.	DIAM	DIAM	* BEST	* INDEX *	
* * *	* * *	AZI.	* * *	AZI.	1-3	2-4	* * *	* * *	
*****									
* 9424.0	9.8	243	7.4	1	9.0	10.3	4	*	
* 9426.0	10.2	239	7.4	2	9.0	10.2	2	*	
* 9428.0	8.2	233	7.4	2	9.1	10.0	4	*	
* 9430.0	9.3	239	7.4	3	9.1	9.9	4	*	
* 9432.0	11.3	243	7.4	3	9.1	10.0	4	*	
* 9434.0	11.2	244	7.4	4	9.1	10.0	4	*	
* 9436.0	10.6	241	7.4	3	9.1	10.0	4	*	
* 9438.0	9.6	237	7.4	2	9.1	10.0	4	*	
* 9440.0	9.6	240	7.4	2	9.1	10.0	4	*	
* 9442.0	9.9	244	7.4	2	9.1	9.9	4	*	
* 9444.0	10.6	242	7.4	1	9.2	9.6	4	*	
* 9446.0	10.5	217	7.4	3	9.1	10.5	2	*	
* 9448.0	9.3	253	7.4	5	9.1	11.4	4	*	
* 9450.0	10.3	247	7.4	5	9.0	11.2	4	*	
* 9452.0	10.6	251	7.4	5	9.0	10.7	4	*	
* 9454.0	9.2	257	7.4	5	9.0	10.7	4	*	
* 9456.0	7.0	231	7.4	4	9.0	10.9	4	*	
* 9458.0	7.5	263	7.4	6	8.9	11.1	4	*	
* 9460.0	11.7	240	7.4	6	8.9	10.9	4	*	
* 9462.0	10.4	243	7.4	6	8.9	10.9	4	*	
* 9464.0	11.3	245	7.4	6	8.9	10.7	4	*	
* 9466.0	9.9	246	7.4	6	8.9	10.8	4	*	
* 9468.0	8.0	251	7.4	8	9.0	11.1	4	*	
* 9470.0	8.7	241	7.4	7	9.0	10.4	4	*	
* 9472.0	8.4	201	7.4	5	9.1	9.7	4	*	
* 9474.0	8.8	218	7.4	7	9.0	9.7	4	*	
* 9476.0	9.5	217	7.4	7	9.0	10.3	4	*	
* 9478.0	9.3	229	7.4	7	9.0	10.6	4	*	
* 9480.0			7.4	7	9.0	10.2		*	
* 9482.0	9.0	224	7.4	6	9.0	10.0	2	*	
* 9484.0	9.8	212	7.4	5	9.1	9.8	2	*	
* 9486.0	10.0	246	7.4	6	9.1	9.8	4	*	
* 9488.0	5.9	229	7.4	7	9.1	10.3	4	*	
* 9490.0			7.4	10	9.1	10.8		*	
* 9492.0	9.5	282	7.4	12	9.0	10.8	1	*	
* 9494.0	13.0	266	7.4	10	9.0	10.6	3	*	
* 9496.0	10.3	258	7.4	8	9.0	10.2	3	*	
* 9498.0	11.0	251	7.4	7	9.1	9.9	1	*	
* 9500.0			7.4	8	9.1	10.0		*	
* 9502.0			7.2	9	9.2	10.0		*	
* 9504.0			7.2	11	9.1	10.1		*	
* 9506.0			7.2	11	9.1	10.4		*	
* 9508.0			7.2	10	9.1	10.2		*	
* 9510.0	13.4	239	7.2	11	9.2	10.1	1	*	
* 9512.0	14.4	239	7.2	12	9.2	10.0	4	*	
*****									

*****							
* FORMATION *				* BOREHOLE *		* QUAL. *	
*****							
* DEPTH *	* DIP	DIP	* DEV.	DEV.	DIAM	DIAM	* BEST *
		AZI.		AZI.	1-3	2-4	* =4 *
*****							
* 9514.0	15.3	240	7.2	12	9.1	9.9	4 *
* 9516.0	15.9	240	7.3	11	9.0	10.1	2 *
* 9518.0			7.3	10	8.9	10.9	* *
* 9520.0	12.8	241	7.2	11	8.9	11.2	2 *
* 9522.0	15.1	251	7.2	13	9.0	10.6	4 *
* 9524.0	13.4	252	7.2	13	9.0	10.1	2 *
* 9526.0			7.2	13	9.1	10.4	* *
* 9528.0			7.2	11	9.1	11.0	* *
* 9530.0			7.2	13	9.1	11.6	* *
* 9532.0			7.2	16	9.1	11.9	* *
* 9534.0			7.2	15	9.1	11.8	* *
* 9536.0			7.3	14	9.0	11.9	* *
* 9538.0			7.3	15	9.0	12.4	* *
* 9540.0			7.4	15	9.0	12.3	* *
* 9542.0			7.5	14	9.0	12.2	* *
* 9544.0			7.6	16	9.0	12.0	* *
* 9546.0			7.7	15	9.1	12.0	* *
* 9548.0			7.8	15	9.0	12.4	* *
* 9550.0			7.8	17	8.8	12.5	* *
* 9552.0	13.6	286	7.8	17	8.7	12.5	4 *
* 9554.0	13.2	275	7.7	18	9.0	12.2	2 *
* 9556.0	21.0	258	7.5	17	9.1	11.3	2 *
* 9558.0	22.8	260	7.5	16	9.1	10.9	4 *
* 9560.0	12.3	243	7.5	16	9.1	11.0	4 *
* 9562.0	8.4	233	7.4	17	9.0	11.0	2 *
* 9564.0	11.5	240	7.5	18	8.9	11.2	2 *
* 9566.0	12.3	242	7.6	18	8.9	11.2	4 *
* 9568.0	16.9	254	7.7	17	8.8	11.2	2 *
* 9570.0	15.1	233	7.8	18	9.0	11.4	4 *
* 9572.0	9.2	208	7.7	18	9.0	11.7	3 *
* 9574.0	42.4	284	7.7	18	9.1	12.2	3 *
* 9576.0			7.9	21	9.1	12.3	* *
* 9578.0			7.9	22	9.0	12.4	* *
* 9580.0			7.6	20	9.0	12.5	* *
* 9582.0	11.6	245	7.4	21	8.9	12.4	1 *
* 9584.0			7.4	22	9.0	12.5	2 *
* 9586.0			7.5	21	9.0	12.8	* *
* 9588.0			7.4	21	9.0	12.9	6 *
* 9590.0			7.5	22	8.9	12.7	* *
* 9592.0	13.2	239	7.5	21	8.9	12.7	4 *
* 9594.0	14.3	242	7.5	21	8.9	12.6	4 *
* 9596.0	14.6	245	7.5	23	8.8	12.6	4 *
* 9598.0	14.3	252	7.5	23	8.8	12.6	4 *
* 9600.0	15.2	251	7.5	23	8.9	12.5	4 *
* 9602.0	16.5	246	7.6	23	8.9	12.4	2 *

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* FORMATION *					* BOREHOLE		* QUAL. *		
*-----*									
* DEPTH *	* DIP	* DIP	* DEV.	* DEV.	* DIAM	* DIAM	* BEST	* INDEX *	
		AZI.		AZI.	1-3	2-4		* 34 *	
*****									
* 9604.0			7.6	24	8.9	12.0			
* 9606.0	24.1	234	7.7	25	8.9	12.4	1		
* 9608.0	25.0	236	7.7	23	9.0	13.0	1		
* 9610.0			7.8	23	8.8	13.2			
* 9612.0	27.8	268	7.8	23	8.6	13.3	1		
* 9614.0	28.3	261	7.8	25	8.5	13.6	1		
* 9616.0	19.9	224	7.7	26	8.6	14.4	1		
* 9618.0			7.7	25	8.7	14.8			
* 9620.0			7.7	26	8.6	14.4			
* 9622.0			7.7	25	8.7	14.5			
* 9624.0	13.9	236	7.8	25	8.7	15.0	3		
* 9626.0			7.8	25	8.6	15.1			
* 9628.0			7.8	27	8.7	15.2			
* 9630.0			7.8	27	9.1	14.9			
* 9632.0	13.0	236	7.9	27	9.1	14.4	3		
* 9634.0	15.2	252	7.9	27	9.2	14.8	3		
* 9636.0	11.1	281	7.9	28	10.4	15.4	1		
* 9638.0			7.9	30	11.6	15.8			
* 9640.0			8.0	29	11.4	16.0			
* 9642.0			8.0	30	10.7	15.5			
* 9644.0			8.0	30	9.9	15.5			
* 9646.0			8.0	30	9.2	15.2			
* 9648.0			8.1	30	8.7	14.7			
* 9650.0			8.1	28	8.6	15.7			
* 9652.0			8.1	28	8.6	16.4			
* 9654.0			8.1	28	8.8	16.6			
* 9656.0			8.2	28	9.3	16.5			
* 9658.0			8.2	29	10.3	16.5			
* 9660.0			8.2	28	10.7	16.2			
* 9662.0	25.4	266	8.2	28	10.5	15.8	3		
* 9664.0	26.4	270	8.3	29	10.6	16.0	3		
* 9666.0			8.3	28	10.4	16.0			
* 9668.0			8.3	28	9.8	16.2			
* 9670.0			8.3	28	10.5	16.3			
* 9672.0			8.4	28	11.5	15.9			
* 9674.0			8.4	29	10.7	15.6			
* 9676.0	27.0	275	8.4	27	9.5	15.3	1		
* 9678.0			8.4	27	9.0	14.8			
* 9680.0			8.5	28	9.2	15.4			
* 9682.0			8.5	29	10.3	16.2			
* 9684.0			8.5	31	11.0	16.3			
* 9686.0			8.5	28	9.8	13.8			
* 9688.0			8.6	26	8.7	11.7			
* 9690.0			8.6	30	8.6	12.0			
* 9692.0			8.6	32	8.7	12.0			
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* * * * *	FORMATION	* * * * *	BOREHOLE	* * * * *	QUAL.	* * * * *	INDEX	* * * * *	* * * * *
* * * * *	DEPTH	DIP	DIP	DEV.	DEV.	DIAM	DIAM	BEST	* * * * *
* * * * *	* * * * *	AZI.	* * * * *	AZI.	1-3	2-4	* * * * *	=4	* * * * *
* 9694.0				8.5	32	8.7	12.1		*
* 9696.0				8.5	32	8.6	12.5		*
* 9698.0	21.4	213		8.6	30	8.6	12.7	1	*
* 9700.0	17.9	226		8.6	33	9.0	13.1	3	*
* 9702.0	15.7	239		8.6	36	9.5	14.0	1	*
* 9704.0	18.8	228		8.6	33	9.2	14.0	1	*
* 9706.0	17.4	247		8.6	33	8.6	13.0	3	*
* 9708.0	15.6	235		8.6	33	8.5	13.2	3	*
* 9710.0	15.7	240		8.7	35	8.5	13.8	3	*
* 9712.0	14.9	205		8.9	37	8.5	13.7	1	*
* 9714.0	12.0	237		8.8	37	8.7	13.5	3	*
* 9716.0	12.4	229		8.6	38	9.0	14.0	1	*
* 9718.0	15.0	247		8.6	36	8.8	14.0	4	*
* 9720.0	16.4	239		8.6	36	8.5	13.0	4	*
* 9722.0	16.0	244		8.6	37	8.5	12.4	2	*
* 9724.0	11.5	246		8.7	37	8.5	12.0	2	*
* 9726.0	15.7	249		8.7	39	8.5	11.9	4	*
* 9728.0	16.3	247		8.7	40	8.5	12.2	4	*
* 9730.0	15.1	252		8.6	36	8.8	13.1	4	*
* 9732.0	21.1	229		8.6	34	9.8	14.0	2	*
* 9734.0				8.6	36	10.1	14.6		*
* 9736.0				8.7	36	9.5	15.1		*
* 9738.0				8.6	36	9.5	15.3		*
* 9740.0				8.8	37	9.8	16.1		*
* 9742.0				8.9	38	10.0	15.8		*
* 9744.0				9.0	37	9.8	15.3		*
* 9746.0				9.1	37	9.6	15.0		*
* 9748.0				9.2	36	9.9	15.8		*
* 9750.0	20.0	248		9.3	37	10.3	15.0	3	*
* 9752.0	19.1	248		9.3	37	9.5	12.5	1	*
* 9754.0	19.2	263		9.2	36	8.9	11.4	1	*
* 9756.0				9.2	38	8.9	11.6		*
* 9758.0	16.3	230		9.3	38	8.9	11.4	2	*
* 9760.0				9.3	39	8.9	11.0		*
* 9762.0	21.3	240		9.3	39	8.9	10.2	2	*
* 9764.0	16.8	256		9.4	39	9.0	9.3	2	*
* 9766.0				9.4	38	9.0	9.0		*
* 9768.0	23.5	223		9.4	39	9.0	9.6	2	*
* 9770.0	22.0	238		9.3	39	9.0	10.6	4	*
* 9772.0	20.1	232		9.3	38	9.1	10.8	4	*
* 9774.0	19.9	232		9.4	38	9.1	10.5	4	*
* 9776.0	18.7	227		9.3	39	9.1	10.9	4	*
* 9778.0	20.8	222		9.3	38	9.1	11.9	4	*
* 9780.0	19.2	228		9.4	38	9.1	12.0	2	*
* 9782.0				9.4	37	9.0	11.7		*

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*****									
* FORMATION *					BOREHOLE		* QUAL. *		
*****									
* DEPTH *	* DIP	DIP	* DEV.	DEV.	DIAM	DIAM	* BEST	* INDEX *	
*****									
* * *	* * *	AZI.	* * *	AZI.	1-3	2-4	* * *	=4	* * *
*****									
* 9784.0	17.3	242	* 9.4	40	9.0	11.7	2	*	*
* 9786.0	13.5	233	* 9.4	42	9.0	11.8	4	*	*
* 9788.0	10.9	232	* 9.5	40	9.0	11.8	4	*	*
* 9790.0	16.1	218	* 9.5	41	9.1	11.6	4	*	*
* 9792.0	17.5	231	* 9.2	41	9.2	10.8	4	*	*
* 9794.0	16.3	236	* 9.3	41	9.3	10.1	4	*	*
* 9796.0	18.8	238	* 9.3	42	9.3	10.4	4	*	*
* 9798.0	19.1	238	* 9.2	41	9.1	10.3	4	*	*
* 9800.0	15.9	249	* 9.2	40	9.0	9.9	4	*	*
* 9802.0	19.6	252	* 9.2	41	9.0	9.8	4	*	*
* 9804.0	19.8	249	* 9.3	43	8.9	9.8	4	*	*
* 9806.0	17.2	243	* 9.3	43	8.8	10.1	2	*	*
* 9808.0			* 9.3	42	8.9	10.0		*	*
* 9810.0	25.4	267	* 9.3	42	8.9	10.4	2	*	*
* 9812.0	14.6	232	* 9.1	41	9.0	10.3	2	*	*
* 9814.0	15.2	228	* 9.1	40	9.0	9.5	2	*	*
* 9816.0	15.1	233	* 9.1	41	9.0	9.3	4	*	*
* 9818.0	15.5	235	* 9.1	41	9.0	9.3	4	*	*
* 9820.0	15.7	245	* 9.1	42	9.0	9.1	4	*	*
* 9822.0	15.5	239	* 9.1	39	9.1	8.9	4	*	*
* 9824.0	16.3	238	* 9.1	38	9.1	8.9	4	*	*
* 9826.0	17.1	243	* 9.1	38	9.1	8.9	4	*	*
* 9828.0	6.7	236	* 9.1	38	9.1	9.0	1	*	*
* 9830.0			* 9.1	39	9.2	9.0		*	*
* 9832.0	22.8	227	* 9.1	41	9.2	9.0	4	*	*
* 9834.0	20.8	227	* 9.2	42	9.1	9.0	4	*	*
* 9836.0	19.1	223	* 9.2	43	9.1	9.0	4	*	*
* 9838.0	20.2	221	* 9.2	43	9.0	9.0	4	*	*
* 9840.0	20.4	237	* 9.2	43	9.0	9.0	4	*	*
* 9842.0	29.9	211	* 9.2	43	9.1	9.1	3	*	*
* 9844.0	31.1	211	* 9.2	42	9.1	9.4	3	*	*
* 9846.0	19.9	230	* 9.2	40	9.3	10.0	4	*	*
* 9848.0	16.1	238	* 9.2	40	10.3	11.2	4	*	*
* 9850.0	15.7	231	* 9.2	42	10.0	10.6	4	*	*
* 9852.0	15.0	227	* 9.2	44	9.2	9.3	4	*	*
* 9854.0	17.6	233	* 9.2	45	9.2	9.0	4	*	*
* 9856.0	13.3	246	* 9.2	44	9.2	9.0	4	*	*
* 9858.0	13.4	246	* 9.3	43	9.1	9.0	4	*	*
* 9860.0	10.9	243	* 9.3	42	9.1	9.1	4	*	*
* 9862.0	10.3	244	* 9.3	44	9.2	9.1	4	*	*
* 9864.0	14.3	250	* 9.3	45	9.2	9.3	4	*	*
* 9866.0	14.7	238	* 9.3	46	9.2	9.5	2	*	*
* 9868.0	15.6	241	* 9.3	46	9.2	9.7	4	*	*
* 9870.0	12.8	233	* 9.4	44	9.2	10.1	4	*	*
* 9872.0	10.7	220	* 9.7	44	9.2	10.6	4	*	*
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*          * FORMATION          *          BOREHOLE          * QUAL. *
*          * -----          *          -----          * INDEX *
* DEPTH  *  DIP    DIP    *  DEV.  DEV.  DIAM  DIAM  * BEST *
*        *        AZI.  *        AZI.  1-3  2-4  *  =4  *
*****
* 9874.0          *          * 9.7   44   9.5   11.7 *
* 9876.0  13.5    233   * 9.4   44   9.6   12.4  4 *
* 9878.0          *          * 9.4   45   9.6   12.6 *
* 9880.0          *          * 9.4   46   9.3   12.4 *
* 9882.0  20.3    252   * 9.5   47   9.1   12.0  3 *
* 9884.0  11.7    227   * 9.7   47   9.1   11.8  1 *
* 9886.0          *          * 9.7   46   9.0   11.4 *
* 9888.0  16.5    214   * 9.5   46   9.0   10.8  1 *
* 9890.0          *          * 9.6   46   9.2   10.7 *
* 9892.0  17.9    229   * 9.7   46   9.4   10.2  3 *
* 9894.0  18.6    228   * 9.7   46   9.5   9.3   3 *
* 9896.0  18.9    229   * 9.7   46   9.5   9.2   3 *
* 9898.0  15.4    223   * 9.7   45   9.4   9.3   3 *
* 9900.0  16.2    227   * 9.7   47   9.2   9.2   4 *
* 9902.0  21.3    228   * 9.7   48   9.1   9.5   2 *
* 9904.0  12.2    227   * 9.9   48   9.2   10.7  4 *
* 9906.0          *          * 9.9   48   9.3   11.5 *
* 9908.0  13.2    235   * 9.6   48   9.2   11.8  2 *
* 9910.0  15.8    230   * 9.5   45   9.0   12.0  2 *
* 9912.0  16.6    240   * 9.4   43   8.9   11.0  4 *
* 9914.0  19.0    234   * 9.4   46   8.9   9.7   4 *
* 9916.0  22.9    233   * 9.4   47   8.9   9.3   2 *
* 9918.0  23.7    241   * 9.4   47   8.8   9.3   2 *
* 9920.0  15.8    241   * 9.5   48   8.9   9.3   2 *
* 9922.0          *          * 9.5   48   8.9   9.2   *
* 9924.0  14.2    252   * 9.5   48   8.9   9.1   2 *
* 9926.0  14.9    246   * 9.5   48   8.8   9.1   2 *
* 9928.0  18.0    235   * 9.5   46   8.8   9.3   2 *
* 9930.0  18.6    228   * 9.4   47   8.8   9.7   4 *
* 9932.0  19.3    233   * 9.4   47   8.7   9.6   4 *
* 9934.0  19.2    248   * 9.4   48   8.7   9.7   2 *
* 9936.0   9.6    229   * 9.4   49   8.8   9.6   4 *
* 9938.0  15.6    248   * 9.4   52   8.9   9.5   4 *
* 9940.0          *          * 9.4   54   9.0   9.3   *
* 9942.0  27.3    216   * 9.4   51   8.9   9.3   1 *
* 9944.0          *          * 9.5   52   8.9   9.4   *
* 9946.0          *          * 9.5   53   8.8   9.7   *
* 9948.0          *          * 9.4   49   8.7   10.1 *
* 9950.0  24.7    241   * 9.4   48   8.7   10.5  3 *
* 9952.0  25.7    246   * 9.4   49   8.7   10.3  1 *
* 9954.0  23.0    218   * 9.4   49   8.7   9.8   1 *
* 9956.0          *          * 9.4   49   8.7   9.7   *
* 9958.0  28.7    248   * 9.4   49   8.7   9.7   1 *
* 9960.0  12.1    203   * 9.4   50   8.7   9.8   1 *
* 9962.0  16.2    184   * 9.5   49   8.7   9.9   1 *
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*****									
* FORMATION *					BOREHOLE		* QUAL. *		
*****									
* DEPTH *	* DIP	DIP	* DEV.	DEV.	DIAM	DIAM	* BEST	* INDEX *	
*****									
* * *	* * *	AZI.	* * *	AZI.	1-3	2-4	* * *	* =4 *	
*****									
* 10054.0	5.5	210	9.4	48	8.9	9.3	2	*	
* 10056.0	19.1	281	9.4	49	8.9	9.4	2	*	
* 10058.0	19.3	260	9.4	51	8.9	9.3	2	*	
* 10060.0	18.3	238	9.3	50	8.9	9.2	1	*	
* 10062.0			9.4	51	8.9	9.2		*	
* 10064.0	24.6	242	9.4	53	8.9	9.1	1	*	
* 10066.0	24.8	244	9.4	52	8.9	9.1	3	*	
* 10068.0	15.1	255	9.4	53	8.9	9.1	1	*	
* 10070.0			9.4	54	8.9	9.2		*	
* 10072.0			9.4	53	8.9	9.2		*	
* 10074.0			9.4	53	8.9	9.1		*	
* 10076.0			9.4	55	8.9	9.1		*	
* 10078.0			9.4	55	8.9	9.3		*	
* 10080.0			9.4	55	8.9	9.4		*	
* 10082.0	6.1	191	9.4	56	8.8	9.5	2	*	
* 10084.0	2.9	224	9.4	56	8.8	9.5	2	*	
* 10086.0	15.3	246	9.4	55	8.9	9.5	4	*	
* 10088.0	14.5	242	9.4	55	8.8	9.6	4	*	
* 10090.0	12.9	236	9.4	55	8.8	9.5	4	*	
* 10092.0	9.8	243	9.4	55	8.8	9.4	4	*	
* 10094.0	9.6	249	9.4	55	8.9	9.4	4	*	
* 10096.0	16.5	249	9.4	55	8.9	9.4	4	*	
* 10098.0	16.6	233	9.4	55	8.9	9.5	4	*	
* 10100.0	11.8	216	9.4	54	8.9	9.4	1	*	
* 10102.0			9.4	54	8.8	9.4		*	
* 10104.0			9.3	55	8.8	9.5		*	
* 10106.0			9.2	54	8.7	9.7		*	
* 10108.0	11.4	202	9.3	53	8.8	9.7	3	*	
* 10110.0	13.0	204	9.4	55	8.9	9.3	3	*	
* 10112.0	15.3	239	9.3	54	8.8	9.2	1	*	
* 10114.0			9.3	53	8.8	9.5		*	
* 10116.0	19.2	232	9.3	54	8.7	9.6	1	*	
* 10118.0			9.3	54	8.7	9.6		*	
* 10120.0			9.3	54	8.7	9.6		*	
* 10122.0			9.3	53	8.7	9.6		*	
* 10124.0			9.2	53	8.6	9.8		*	
* 10126.0			9.2	53	8.6	9.8		*	
* 10128.0			9.1	54	8.7	9.9		*	
* 10130.0			9.1	55	8.7	9.8		*	
* 10132.0			9.1	55	8.7	9.6		*	
* 10134.0			9.1	55	8.7	9.6		*	
* 10136.0			9.1	57	8.8	9.5		*	
* 10138.0			9.0	58	8.8	9.5		*	
* 10140.0			9.1	58	8.8	9.5		*	
* 10142.0			9.1	58	8.8	9.4		*	
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*****									
* FORMATION *					* BOREHOLE		* QUAL. *		
*-----*									
* DEPTH *	* DIP	DIP	* DEV.	DEV.	DIAM	DIAM	* BEST	* INDEX	*
*	*	AZI.	*	AZI.	1-3	2-4	* =4	*	*
*****									
* 10144.0			9.1	58	8.6	9.4			*
* 10146.0			9.2	57	8.7	9.5			*
* 10148.0	6.1	288	9.2	57	8.6	9.7	3		*
* 10150.0	6.0	288	9.2	58	8.7	9.7	3		*
* 10152.0	11.8	233	9.2	59	8.7	9.5	3		*
* 10154.0	12.2	244	9.1	59	8.8	9.4	1		*
* 10156.0	9.7	233	9.1	58	8.8	9.4	3		*
* 10158.0			9.1	56	8.8	9.4			*
* 10160.0			9.1	56	8.8	9.5			*
* 10162.0			9.0	56	8.8	9.5			*
* 10164.0	17.3	212	9.0	55	8.8	9.5	1		*
* 10166.0	16.3	224	9.0	56	8.8	9.5	3		*
* 10168.0	15.4	223	9.0	57	8.7	9.5	1		*
* 10170.0			8.9	57	8.8	9.4			*
* 10172.0			8.9	56	8.8	9.2			*
* 10174.0			9.0	57	8.8	9.2			*
* 10176.0			9.0	57	8.8	9.4			*
* 10178.0			8.9	56	8.8	9.5			*
* 10180.0			8.9	55	8.8	9.5			*
* 10182.0			8.9	54	8.8	9.2			*
* 10184.0			8.9	54	8.8	9.3			*
* 10186.0			8.9	56	8.7	9.5			*
* 10188.0			8.8	56	8.7	9.6			*
* 10190.0			8.7	55	8.8	9.4			*
* 10192.0			8.7	56	8.9	9.2			*
* 10194.0			8.7	56	8.9	9.2			*
* 10196.0			8.7	56	8.9	9.2			*
* 10198.0			8.7	56	8.9	9.2			*
* 10200.0			8.7	56	8.9	9.2			*
* 10202.0			8.7	56	8.9	9.3			*
* 10204.0			8.8	55	8.9	9.4			*
* 10206.0			8.8	55	8.9	9.4			*
* 10208.0			8.8	55	8.9	9.4			*
* 10210.0			8.8	56	8.9	9.4			*
* 10212.0			8.7	56	8.8	9.5			*
* 10214.0			8.6	56	8.8	9.4			*
* 10216.0			8.6	55	8.8	9.4			*
* 10218.0			8.6	55	8.8	9.5			*
* 10220.0	16.0	234	8.6	55	8.8	9.5	2		*
* 10222.0	16.8	227	8.6	55	8.8	9.5	4		*
* 10224.0	14.5	234	8.6	56	8.8	9.5	4		*
* 10226.0	10.7	237	8.6	55	8.8	9.5	4		*
* 10228.0	9.4	234	8.6	56	8.8	9.4	4		*
* 10230.0	14.5	243	8.6	57	8.9	9.3	4		*
* 10232.0	18.1	223	8.6	57	8.9	9.3	4		*
*****									

*****									
* FORMATION *					BOREHOLE		* QUAL. *		
*****									
* DEPTH *	* DIP	DIP	* DEV.	DEV.	DIAM	DIAM	* BEST	* INDEX *	
* * *	* * *	AZI.	* * *	AZI.	1-3	2-4	* * *	* * *	
*****									
* 10234.0	17.8	245	8.6	56	8.8	9.5	2	*	*
* 10236.0			8.6	55	8.7	9.6		*	*
* 10238.0			8.6	55	8.7	9.5		*	*
* 10240.0	17.3	232	8.6	56	8.8	9.4	1	*	*
* 10242.0			8.6	56	8.8	9.3		*	*
* 10244.0			8.6	56	8.8	9.4		*	*
* 10246.0			8.6	58	8.8	9.5		*	*
* 10248.0			8.6	59	8.9	9.4		*	*
* 10250.0			8.6	58	8.9	9.2		*	*
* 10252.0	18.5	227	8.6	57	8.9	9.1	3	*	*
* 10254.0	18.4	231	8.6	56	8.9	9.1	1	*	*
* 10256.0			8.6	57	8.9	9.0		*	*
* 10258.0			8.6	57	8.9	9.0		*	*
* 10260.0			8.6	58	8.9	9.1		*	*
* 10262.0			8.6	57	8.8	9.2		*	*
* 10264.0	22.4	136	8.6	57	8.8	9.3	1	*	*
* 10266.0	24.4	235	8.6	57	8.8	9.3	3	*	*
* 10268.0	25.2	233	8.6	56	8.9	9.2	3	*	*
* 10270.0			8.6	56	8.9	9.4		*	*
* 10272.0	25.1	230	8.6	57	8.9	9.6	1	*	*
* 10274.0	25.1	229	8.6	56	8.8	9.4	1	*	*
* 10276.0			8.6	57	8.7	9.3		*	*
* 10278.0	18.7	130	8.6	56	8.8	9.6	1	*	*
* 10280.0			8.6	55	8.8	9.6		*	*
* 10282.0			8.6	55	8.8	9.1		*	*
* 10284.0			8.6	53	8.8	9.0		*	*
* 10286.0			8.6	54	8.9	9.1		*	*
* 10288.0			8.6	57	9.2	10.3		*	*
* 10290.0			8.6	54	9.7	11.7		*	*
* 10292.0			8.6	53	9.8	11.9		*	*
* 10294.0	23.3	208	8.6	54	9.6	11.7	1	*	*
* 10296.0	19.2	202	8.6	53	9.3	11.7	3	*	*
* 10298.0	15.8	200	8.6	54	8.9	11.2	1	*	*
* 10300.0	13.1	228	8.6	57	8.7	10.3	1	*	*
* 10302.0	17.9	232	8.6	58	8.7	10.0	3	*	*
* 10304.0	19.0	231	8.6	57	8.7	10.0	3	*	*
* 10306.0	18.6	220	8.6	56	8.6	10.0	3	*	*
* 10308.0			8.6	55	8.5	10.4		*	*
* 10310.0			8.6	55	8.5	11.1		*	*
* 10312.0			8.6	55	8.5	11.6		*	*
* 10314.0	24.0	207	8.6	53	8.4	11.4	1	*	*
* 10316.0	14.8	215	8.6	54	8.5	11.2	1	*	*
* 10318.0			8.6	55	8.6	11.3		*	*
* 10320.0	31.1	205	8.6	56	8.6	11.2	1	*	*
* 10322.0	25.7	196	8.6	56	8.6	11.0	3	*	*
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*          *      FORMATION      *          BOREHOLE          *      QUAL.      *
*          *-----*-----*          *          *          *      INDEX      *
*  DEPTH  *  DIP    DIP    *  DEV.  DEV.  DIAM  DIAM  *  BEST  *
*          *          AZI.  *          AZI.  1-3  2-4  *  =4    *
*****
* 10324.0  26.6    199    *  8.6  55   8.5  11.0  *  3     *
* 10326.0  *          *  8.7  55   8.6  11.3  *  *     *
* 10328.0  *          *  8.7  54   8.7  11.3  *  *     *
* 10330.0  *          *  8.7  54   8.7  10.8  *  *     *
* 10332.0  *          *  8.7  56   8.7  10.2  *  *     *
* 10334.0  *          *  8.7  57   8.8  9.8   *  *     *
* 10336.0  *          *  8.8  58   8.8  9.6   *  *     *
* 10338.0  25.7    209    *  8.8  57   8.7  9.6   *  1     *
* 10340.0  16.8    207    *  8.8  57   8.7  9.6   *  4     *
* 10342.0  13.5    204    *  8.7  57   8.7  9.6   *  2     *
* 10344.0  12.2    186    *  8.7  57   8.8  9.5   *  4     *
* 10346.0  13.9    191    *  8.7  57   8.9  9.3   *  4     *
* 10348.0  10.8    219    *  8.7  56   8.9  9.1   *  4     *
* 10350.0  10.1    222    *  8.6  55   8.9  9.0   *  2     *
* 10352.0  *          *  8.6  56   8.9  9.0   *  *     *
* 10354.0  19.5    214    *  8.6  56   8.9  8.9   *  2     *
* 10356.0  *          *  8.6  57   8.9  9.0   *  *     *
* 10358.0  *          *  8.6  57   8.9  9.0   *  *     *
* 10360.0  11.0    209    *  8.5  57   8.9  9.0   *  2     *
* 10362.0  11.0    206    *  8.4  56   8.9  9.0   *  2     *
* 10364.0  19.9    206    *  8.4  56   8.9  9.0   *  2     *
* 10366.0  16.8    210    *  8.5  56   8.9  9.0   *  1     *
* 10368.0  18.1    211    *  8.6  55   9.0  9.1   *  4     *
* 10370.0  18.1    213    *  8.6  56   9.0  9.1   *  4     *
* 10372.0  16.2    215    *  8.6  59   9.0  9.0   *  2     *
* 10374.0  24.1    208    *  8.7  58   8.9  8.9   *  4     *
* 10376.0  25.5    221    *  8.9  56   8.9  9.0   *  2     *
* 10378.0  20.6    215    *  9.0  56   8.9  9.1   *  4     *
* 10380.0  16.3    251    *  9.0  56   8.8  9.3   *  2     *
* 10382.0  16.1    250    *  9.1  57   8.7  9.4   *  2     *
* 10384.0  *          *  9.1  56   8.7  9.5   *  *     *
* 10386.0  14.4    226    *  9.0  55   8.7  9.6   *  4     *
* 10388.0  13.4    222    *  9.0  54   8.7  9.5   *  4     *
* 10390.0  15.6    228    *  9.0  56   8.8  9.4   *  4     *
* 10392.0  12.7    235    *  8.9  56   8.8  9.5   *  4     *
* 10394.0  12.0    222    *  8.9  56   8.8  9.4   *  2     *
* 10396.0  *          *  8.8  56   8.8  9.3   *  *     *
* 10398.0  *          *  8.7  56   8.8  9.1   *  *     *
* 10400.0  *          *  8.7  58   8.9  8.9   *  *     *
* 10402.0  *          *  8.7  59   8.8  9.0   *  *     *
* 10404.0  *          *  8.7  59   8.8  9.0   *  *     *
* 10406.0  *          *  8.7  59   8.8  9.0   *  *     *
* 10408.0  *          *  8.7  57   8.9  9.0   *  *     *
* 10410.0  *          *  8.8  58   8.9  9.0   *  *     *
* 10412.0  *          *  8.9  60   8.9  9.0   *  *     *
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*****									
* FORMATION *					BOREHOLE		* QUAL. *		
*****									
* DEPTH *	* DIP	DIP	* DEV.	DEV.	DIAM	DIAM	* BEST *	* INDEX *	
*****									
* * *	* * *	AZI.	* * *	AZI.	1-3	2-4	* * *	* * *	
*****									
* 10414.0			8.9	60	8.9	9.0			
* 10416.0			9.0	58	8.9	9.0			
* 10418.0			9.0	57	8.8	9.1			
* 10420.0			9.0	56	8.8	9.4			
* 10422.0			9.0	55	8.7	9.4			
* 10424.0			9.0	55	8.8	9.2			
* 10426.0	48.2	99	9.0	55	8.8	9.2	3		
* 10428.0			8.9	55	8.9	9.3			
* 10430.0			8.8	55	8.9	9.2			
* 10432.0			8.8	55	8.8	9.2			
* 10434.0			8.8	56	8.8	9.5			
* 10436.0			8.7	54	8.8	9.7			
* 10438.0			8.6	52	8.7	9.5			
* 10440.0			8.6	53	8.8	9.4			
* 10442.0			8.6	54	8.8	9.5			
* 10444.0	17.7	74	8.6	57	8.8	9.5	1		
* 10446.0			8.6	58	8.9	9.3			
* 10448.0			8.6	57	8.9	9.2			
* 10450.0			8.6	58	8.9	9.1			
* 10452.0			8.7	59	8.9	9.1			
* 10454.0	14.7	80	8.7	59	8.9	9.1	1		
* 10456.0	19.8	78	8.7	60	8.9	9.2	1		
* 10458.0	12.5	87	8.8	62	8.9	9.3	3		
* 10460.0			8.8	61	8.9	9.4			
* 10462.0			8.7	60	8.9	9.4			
* 10464.0	12.0	228	8.7	60	8.8	9.5	4		
* 10466.0	15.0	236	8.8	59	8.7	9.6	4		
* 10468.0	14.2	232	8.8	58	8.7	9.6	4		
* 10470.0	8.2	190	8.8	59	8.7	9.7	2		
* 10472.0	11.1	227	8.8	60	8.7	9.8	2		
* 10474.0			8.8	60	8.7	9.9			
* 10476.0			8.7	60	8.7	9.8			
* 10478.0	9.3	241	8.6	60	8.7	9.7	4		
* 10480.0	9.0	225	8.6	60	8.7	9.5	1		
* 10482.0	8.3	273	8.6	61	8.8	9.3	1		
* 10484.0			8.6	61	8.9	9.1			
* 10486.0			8.6	61	8.9	9.1			
* 10488.0	2.3	268	8.6	61	8.9	9.2	1		
* 10490.0	4.1	249	8.6	61	8.9	9.4	3		
* 10492.0	7.5	261	8.6	60	8.8	9.4	3		
* 10494.0	11.7	252	8.6	60	8.8	9.4	1		
* 10496.0	12.1	233	8.6	60	8.8	9.5	1		
* 10498.0	9.9	227	8.6	59	8.7	9.6	1		
* 10500.0	14.0	231	8.6	58	8.7	9.6	4		
* 10502.0	11.9	228	8.6	58	8.7	9.6	4		

*****									
* FORMATION *					* BOREHOLE		* QUAL. *		
*****									
* DEPTH *	* DIP	DIP	* DEV.	DEV.	DIAM	DIAM	* BEST	* INDEX *	
* * *	* * *	AZI.	* * *	AZI.	1-3	2-4	* * *	* * *	
*****									
* 10504.0	9.8	226	8.6	59	8.7	9.5	4	*	
* 10506.0	9.5	228	8.6	59	8.8	9.5	4	*	
* 10508.0			8.6	59	8.8	9.5		*	
* 10510.0	10.8	234	8.6	59	8.8	9.6	1	*	
* 10512.0	9.6	229	8.6	60	8.7	9.6	1	*	
* 10514.0	9.8	235	8.6	59	8.7	9.6	4	*	
* 10516.0	9.9	231	8.6	58	8.7	9.6	4	*	
* 10518.0	10.3	231	8.6	59	8.7	9.6	4	*	
* 10520.0	9.6	228	8.6	61	8.7	9.6	4	*	
* 10522.0	10.2	229	8.6	61	8.8	9.6	4	*	
* 10524.0	9.5	234	8.5	61	8.7	9.5	2	*	
* 10526.0	7.1	234	8.5	61	8.8	9.4	4	*	
* 10528.0	8.2	225	8.5	61	8.9	9.4	4	*	
* 10530.0	9.7	234	8.6	60	8.8	9.5	4	*	
* 10532.0	9.3	219	8.6	59	8.7	9.6	4	*	
* 10534.0	10.0	225	8.5	61	8.8	9.6	4	*	
* 10536.0	10.8	230	8.5	62	8.8	9.5	4	*	
* 10538.0	11.8	227	8.5	61	8.8	9.5	4	*	
* 10540.0	11.6	213	8.5	59	8.8	9.5	4	*	
* 10542.0	10.7	225	8.4	60	8.8	9.5	4	*	
* 10544.0	9.6	216	8.4	61	8.8	9.5	4	*	
* 10546.0	11.2	229	8.4	60	8.8	9.5	4	*	
* 10548.0	11.8	241	8.4	60	8.8	9.5	4	*	
* 10550.0	8.9	227	8.4	62	8.8	9.6	1	*	
* 10552.0	8.2	242	8.4	63	8.7	9.7	3	*	
* 10554.0	9.7	224	8.3	61	8.8	9.6	1	*	
* 10556.0	10.5	235	8.4	61	8.9	9.3	3	*	
* 10558.0			8.3	61	8.9	9.1		*	
* 10560.0			8.2	62	8.9	9.0		*	
* 10562.0			8.2	62	8.9	9.0		*	
* 10564.0	7.0	242	8.2	61	8.9	9.1	3	*	
* 10566.0	8.5	243	8.3	62	8.9	9.1	3	*	
* 10568.0			8.3	61	8.9	9.1		*	
* 10570.0	2.9	196	8.3	62	8.9	9.2	2	*	
* 10572.0	9.6	244	8.4	62	8.9	9.3	4	*	
* 10574.0	7.1	240	8.4	60	8.9	9.4	4	*	
* 10576.0	5.4	220	8.4	60	8.8	9.4	4	*	
* 10578.0	3.7	295	8.5	59	8.8	9.5	2	*	
* 10580.0	11.0	234	8.5	58	8.7	9.8	2	*	
* 10582.0			8.4	58	8.7	9.9		*	
* 10584.0			8.4	59	8.7	9.7		*	
* 10586.0			8.3	59	8.7	9.8		*	
* 10588.0			8.4	59	8.7	9.9		*	
* 10590.0			8.4	60	8.7	9.8		*	
* 10592.0	28.7	226	8.3	60	8.7	9.8	1	*	
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*          * FORMATION          *          * BOREHOLE          * QUAL. *
*          * -----          *          * -----          * INDEX *
* DEPTH  *  DIP    DIP    *  DEV.  DEV.    DIAM    DIAM  * BEST *
*          *          AZI.  *          AZI.    1-3    2-4  *  =4  *
*****
* 10684.0  34.0    248    *  8.0   65    8.9    9.4   *  3   *
* 10686.0  34.7    251    *  8.0   65    8.8    9.6   *  3   *
* 10688.0  33.2    249    *  8.0   65    8.8    10.1  *  3   *
* 10690.0  30.3    259    *  8.0   65    8.8    10.1  *  1   *
* 10692.0  31.9    260    *  8.0   65    8.8    9.7   *  1   *
* 10694.0          *  8.0   64    8.9    9.5   *     *
* 10696.0          *  8.0   63    8.9    9.2   *     *
* 10698.0          *  8.0   65    9.0    9.1   *     *
* 10700.0          *  8.0   65    9.0    9.0   *     *
* 10702.0   8.5    253    *  8.0   65    9.0    9.0   *  3   *
* 10704.0   8.4    257    *  8.0   65    9.1    9.0   *  1   *
* 10706.0          *  8.0   64    9.0    9.0   *     *
* 10708.0          *  8.0   67    9.0    9.0   *     *
* 10710.0          *  8.0   66    9.0    8.9   *     *
* 10712.0          *  8.0   66    8.9    9.0   *     *
* 10714.0          *  8.0   66    8.9    9.0   *     *
* 10716.0  13.9    237    *  8.0   63    8.8    9.0   *  1   *
* 10718.0  15.1    249    *  8.0   63    8.8    9.1   *  1   *
* 10720.0  15.4    228    *  8.0   65    8.9    9.2   *  1   *
* 10722.0          *  8.0   65    8.9    9.2   *     *
* 10724.0          *  8.0   64    8.9    9.1   *     *
* 10726.0          *  8.0   64    8.9    8.9   *     *
* 10728.0  13.2    222    *  8.0   62    9.0    8.8   *  1   *
* 10730.0          *  7.9   62    8.9    8.5   *     *
* 10732.0          *  7.8   63    8.7    8.9   *     *
* 10734.0          *  7.9   65    8.7    8.9   *     *
* 10736.0  20.1    224    *  7.9   67    8.9    8.9   *  3   *
* 10738.0  17.9    230    *  7.9   66    8.9    9.0   *  3   *
* 10740.0  15.4    212    *  7.9   65    8.9    9.0   *  1   *
* 10742.0          *  8.0   65    8.9    9.0   *     *
* 10744.0          *  7.9   64    8.9    8.9   *     *
* 10746.0  19.2    231    *  7.8   64    8.9    8.8   *  3   *
* 10748.0          *  7.8   64    8.9    8.9   *     *
* 10750.0          *  7.8   65    8.7    8.8   *     *
* 10752.0  18.6    250    *  7.8   64    8.7    8.9   *  1   *
* 10754.0  19.5    243    *  7.8   63    8.8    9.0   *  1   *
* 10756.0          *  7.8   64    8.9    8.9   *     *
* 10758.0          *  7.8   64    8.8    8.8   *     *
* 10760.0          *  7.8   63    8.8    8.7   *     *
* 10762.0  17.8    224    *  7.8   63    8.9    8.8   *  3   *
* 10764.0  11.7    243    *  7.8   62    8.9    8.8   *  1   *
* 10766.0          *  7.7   63    8.9    8.8   *     *
* 10768.0  20.0    217    *  7.7   65    8.9    8.8   *  1   *
* 10770.0          *  7.7   65    8.9    8.8   *     *
* 10772.0          *  7.7   65    8.9    8.8   *     *
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*****									
* FORMATION *					BOREHOLE		* QUAL. *		
*****									
* DEPTH *	* DIP	DIP	* DEV.	DEV.	DIAM	DIAM	* BEST *	* INDEX *	
*****									
* * * * *	* * * * *	AZI.	* * * * *	AZI.	1-3	2-4	* * * * *	* * * * *	* * * * *
*****									
* 10774.0	8.0	217	7.7	64	8.9	8.8	1	*	*
* 10776.0	23.5	209	7.7	62	8.9	8.8	1	*	*
* 10778.0	24.5	206	7.7	62	8.8	8.7	1	*	*
* 10780.0	14.6	250	7.6	64	8.8	8.9	1	*	*
* 10782.0	14.0	243	7.6	66	8.7	8.9	1	*	*
* 10784.0			7.6	67	8.7	8.7		*	*
* 10786.0	33.7	235	7.5	65	8.8	8.6	3	*	*
* 10788.0	29.8	230	7.4	62	8.7	8.5	3	*	*
* 10790.0	30.6	229	7.3	61	8.6	8.5	3	*	*
* 10792.0	31.8	227	7.2	62	8.6	8.5	3	*	*
* 10794.0	13.5	243	7.2	62	8.7	8.6	3	*	*
* 10796.0	7.9	230	7.1	61	8.7	8.6	3	*	*
* 10798.0	6.3	230	7.1	61	8.8	8.7	1	*	*
* 10800.0			7.2	61	8.9	8.8		*	*
* 10802.0			7.2	61	8.9	8.7		*	*
* 10804.0			7.2	61	8.8	8.6		*	*
* 10806.0	27.4	239	7.3	61	8.8	8.6	4	*	*
* 10808.0	38.3	237	7.3	63	8.7	8.5	4	*	*
* 10810.0	36.4	241	7.5	65	8.7	8.6	2	*	*
* 10812.0	33.3	244	7.5	66	8.7	8.6	2	*	*
* 10814.0	28.4	245	7.4	67	8.7	8.6	2	*	*
* 10816.0	27.8	246	7.3	66	8.7	8.5	4	*	*
* 10818.0	30.5	232	7.2	64	8.7	8.5	4	*	*
* 10820.0	24.8	239	7.1	61	8.7	8.7	3	*	*
* 10822.0	19.4	243	7.1	60	8.8	8.7	1	*	*
* 10824.0	17.2	243	7.1	59	8.9	8.8	1	*	*
* 10826.0			7.0	59	8.9	8.6		*	*
* 10828.0	25.0	238	7.0	59	8.9	8.8	1	*	*
* 10830.0	19.8	235	7.0	58	8.9	8.9	1	*	*
* 10832.0			7.0	58	8.9	8.9		*	*
* 10834.0	27.9	260	7.0	58	8.9	8.9	3	*	*
* 10836.0	25.1	243	7.0	59	8.8	8.6	3	*	*
* 10838.0	33.6	238	7.0	59	8.7	8.6	1	*	*
* 10840.0			7.0	58	8.8	8.7		*	*
* 10842.0			7.0	57	8.8	8.7		*	*
* 10844.0			7.0	57	8.9	8.8		*	*
* 10846.0			7.0	59	8.9	8.8		*	*
* 10848.0			7.0	58	8.9	8.6		*	*
* 10850.0			7.0	57	9.0	8.9		*	*
* 10852.0			7.0	57	9.0	8.9		*	*
* 10854.0			7.0	57	9.0	8.8		*	*
* 10856.0			7.0	56	9.1	8.8		*	*
* 10858.0			7.0	56	9.2	8.8		*	*
* 10860.0			7.0	57	9.3	8.6		*	*
* 10862.0			7.0	55	9.2	8.8		*	*
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* * * * *	* FORMATION *			* BOREHOLE *			* QUAL. *	
* * * * *	*-----*							* INDEX *
* DEPTH *	DIP	DIP	* DEV.	DEV.	DIAM	DIAM	* BEST *	
* * * * *	* * * * *	AZI.	* * * * *	AZI.	1-3	2-4	* #4 *	
*****								
* 10954.0	26.6	229	7.2	57	8.9	8.9	1	
* 10956.0			7.1	58	8.8	8.8		
* 10958.0	23.8	240	7.0	58	8.8	8.7	1	
* 10960.0			7.0	58	8.9	8.9		
* 10962.0			7.0	58	8.9	8.8		
* 10964.0	21.2	233	7.0	57	8.8	8.8	3	
* 10966.0	24.3	228	7.0	56	8.8	8.9	3	
* 10968.0			7.0	55	8.9	8.9		
* 10970.0			7.0	54	8.9	8.8		
* 10972.0			7.0	54	8.8	8.8		
* 10974.0			7.0	55	8.8	8.7		
* 10976.0			7.0	55	8.7	8.7		
* 10978.0			7.0	55	8.7	8.7		
* 10980.0			7.0	53	8.7	8.6		
* 10982.0	6.6	263	7.0	52	8.7	8.7	1	
* 10984.0			7.0	52	8.8	8.8		
* 10986.0			7.0	52	8.8	8.7		
* 10988.0			7.0	52	8.8	8.7		
* 10990.0			7.1	53	8.7	8.7		
* 10992.0			7.2	51	8.8	8.7		
* 10994.0			7.2	51	8.8	8.7		
* 10996.0			7.1	52	8.7	8.7		
* 10998.0	3.6	236	7.0	51	8.7	8.7	1	
* 11000.0	35.1	217	6.9	50	8.7	8.7	2	
* 11002.0	31.7	216	6.9	50	8.8	8.7	4	
* 11004.0	35.0	215	6.9	51	8.9	8.7	2	
* 11006.0			6.9	51	8.9	8.8		
* 11008.0	29.4	217	7.0	51	8.8	8.8	4	
* 11010.0	29.4	220	7.0	51	8.7	8.7	4	
* 11012.0	30.3	237	6.9	50	8.8	8.7	4	
* 11014.0	32.0	235	7.0	52	8.9	8.8	4	
* 11016.0	35.9	234	7.0	54	8.9	8.8	2	
* 11018.0	32.9	239	7.0	54	8.7	8.7	4	
* 11020.0	30.8	237	7.0	54	8.7	8.7	4	
* 11022.0	31.1	235	7.0	54	8.8	8.7	4	
* 11024.0	33.5	231	7.0	53	8.7	8.7	4	
* 11026.0	34.1	231	7.0	52	8.7	8.7	4	
* 11028.0			7.0	52	8.7	8.7		
* 11030.0	30.0	228	7.0	51	8.7	8.7	4	
* 11032.0	30.6	233	7.0	49	8.8	8.7	4	
* 11034.0	30.9	233	7.0	49	8.8	8.7	4	
* 11036.0	29.8	239	7.0	51	8.7	8.7	4	
* 11038.0	28.4	240	7.0	52	8.7	8.7	4	
* 11040.0	28.4	240	7.0	54	8.7	8.7	4	
* 11042.0	28.7	241	7.0	54	8.6	8.7	2	
*****								

*****									
* FORMATION *					BOREHOLE		* QUAL. *		
* ----- * ----- * ----- * ----- * ----- * ----- * ----- * ----- * ----- *									
* DEPTH *	* DIP	DIP	* DEV.	DEV.	DIAH	DIAH	* INDEX *	* BEST *	*
*	*	AZI.	*	AZI.	1-3	2-4	* =4 *	*	*
*****									
* 11044.0	27.3	239	7.0	54	8.6	8.7	2	*	*
* 11046.0	21.2	240	7.0	53	8.7	8.7	2	*	*
* 11048.0	19.6	233	7.0	53	8.7	8.7	2	*	*
* 11050.0	31.4	244	7.0	56	8.8	8.7	2	*	*
* 11052.0	30.4	240	7.0	56	8.8	8.7	4	*	*
* 11054.0	27.5	249	7.0	56	8.9	8.7	4	*	*
* 11056.0	31.9	249	7.0	58	8.8	8.6	4	*	*
* 11058.0			7.0	59	8.7	8.5		*	*
* 11060.0			7.0	60	8.9	8.6		*	*
* 11062.0			7.0	62	9.1	8.7		*	*
* 11064.0			7.0	63	9.2	8.6		*	*
* 11066.0			7.0	62	9.1	8.6		*	*
* 11068.0			7.0	62	9.0	8.6		*	*
* 11070.0			7.0	63	8.8	8.6		*	*
* 11072.0			7.0	61	8.7	8.6		*	*
* 11074.0			7.1	61	8.8	8.6		*	*
* 11076.0			7.1	61	8.8	8.7		*	*
* 11078.0			7.0	63	8.7	8.9		*	*
* 11080.0			7.0	66	8.6	8.9		*	*
* 11082.0	32.0	264	7.0	67	8.5	8.6	1	*	*
* 11084.0			7.0	65	8.6	8.6		*	*
* 11086.0			7.0	63	8.6	8.6		*	*
* 11088.0			7.0	62	8.7	8.6		*	*
* 11090.0			7.0	61	8.7	8.6		*	*
* 11092.0	32.9	247	7.0	60	8.7	8.6	1	*	*
* 11094.0			7.0	60	8.6	8.6		*	*
* 11096.0	28.0	249	7.0	61	8.6	8.6	3	*	*
* 11098.0	31.2	249	7.0	62	8.7	8.6	4	*	*
* 11100.0	28.7	255	7.0	64	8.7	8.6	4	*	*
* 11102.0	28.6	255	7.0	65	8.7	8.6	4	*	*
* 11104.0	29.1	251	7.0	63	8.7	8.5	4	*	*
* 11106.0	30.6	249	7.0	61	8.7	8.3	4	*	*
* 11108.0	27.1	253	7.0	62	8.7	8.2	3	*	*
* 11110.0			7.0	63	8.8	8.4		*	*
* 11112.0			6.9	64	8.9	8.6		*	*
* 11114.0			6.9	64	8.9	8.6		*	*
* 11116.0			6.8	63	8.8	8.6		*	*
* 11118.0			6.8	63	8.8	8.6		*	*
* 11120.0			6.8	64	8.8	8.5		*	*
* 11122.0	11.1	256	6.8	63	8.8	8.5	1	*	*
* 11124.0			6.7	64	8.9	8.4		*	*
* 11126.0	10.7	232	6.7	66	8.8	8.4	3	*	*
* 11128.0	10.2	213	6.7	66	8.7	8.5	3	*	*
* 11130.0	30.2	252	6.7	67	8.7	8.6	3	*	*
* 11132.0	30.9	253	6.7	68	8.7	8.5	1	*	*
*****									

*****									
* FORMATION *					* BOREHOLE *		* QUAL. *		
*****									
* DEPTH *	* DIP	DIP	* DEV.	DEV.	DIAM	DIAM	* BEST *	* INDEX *	
* * *	* * *	AZI.	* * *	AZI.	1-3	2-4	* =4 *	* * *	
*****									
* 11134.0			6.8	67	8.7	8.4			
* 11136.0	33.1	251	6.8	64	8.7	8.5	1		
* 11138.0			6.8	62	8.7	8.6			
* 11140.0	28.4	254	6.7	63	8.8	8.6	2		
* 11142.0	29.0	256	6.7	63	8.7	8.8	4		
* 11144.0	30.5	257	6.8	63	8.7	8.9	4		
* 11146.0	30.2	256	6.8	61	8.6	9.0	2		
* 11148.0	33.7	256	6.9	62	8.5	8.8	4		
* 11150.0			6.9	65	8.6	8.7			
* 11152.0	28.7	255	6.9	65	8.9	8.7	4		
* 11154.0			6.9	68	9.0	8.7			
* 11156.0			6.9	69	8.9	8.8			
* 11158.0			6.9	68	8.9	8.8			
* 11160.0			6.9	67	8.9	8.6			
* 11162.0			6.9	69	8.9	8.6			
* 11164.0	30.7	244	6.9	70	9.0	8.8	1		
* 11166.0	39.0	246	7.0	68	8.9	8.9	1		
* 11168.0			7.1	67	8.9	8.9			
* 11170.0	33.3	236	7.2	70	8.9	8.9	1		
* 11172.0	34.0	242	7.1	71	8.5	8.9	3		
* 11174.0	35.2	242	7.0	71	8.5	8.9	1		
* 11176.0	36.9	236	7.0	71	8.8	8.9	1		
* 11178.0			7.0	71	9.0	8.9			
* 11180.0	37.5	252	7.0	70	8.9	8.9	1		
* 11182.0			7.0	71	8.7	8.9			
* 11184.0			7.1	71	8.6	8.9			
* 11186.0	21.1	249	7.0	71	8.8	8.9	1		
* 11188.0	22.1	242	7.0	71	8.8	8.9	3		
* 11190.0	31.3	217	7.0	71	8.7	8.8	1		
* 11192.0	34.7	218	7.0	70	8.6	8.8	1		
* 11194.0	44.7	219	7.0	68	8.6	8.9	1		
* 11196.0	36.8	218	7.0	69	8.6	8.9	1		
* 11198.0	41.7	214	7.0	72	8.6	8.8	3		
* 11200.0			7.0	73	8.7	8.6			
* 11202.0			7.0	72	8.8	8.4			
* 11204.0			7.0	72	8.7	8.4			
* 11206.0	24.9	229	7.0	72	8.7	8.6	1		
* 11208.0	32.6	255	7.0	72	8.8	8.6	1		
* 11210.0			7.0	73	8.9	8.7			
* 11212.0	31.5	229	7.0	74	8.8	8.8	1		
* 11214.0	29.1	228	7.0	74	8.7	8.8	1		
* 11216.0	37.2	239	7.0	73	8.7	8.8	1		
* 11218.0	36.1	241	7.0	72	8.7	8.8	1		
* 11220.0			7.0	71	8.8	8.8			
* 11222.0	18.0	252	6.9	72	8.9	8.8	2		





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* FORMATION *			* BOREHOLE *				* QUAL. *
*-----*							
* DEPTH *	* DIP	* DIP	* DEV.	* DEV.	* DIAM	* DIAM	* INDEX *
		AZI.		AZI.	1-3	2-4	BEST
							=4
* 5700.0			3.4	6	13.7	13.0	*
* 5702.0			3.4	4	13.5	13.1	*
* 5704.0			3.4	7	13.4	13.7	*
* 5706.0			3.4	8	13.3	14.4	*
* 5708.0			3.4	6	13.4	15.3	*
* 5710.0			3.4	7	13.2	15.1	*
* 5712.0			3.4	8	12.8	14.4	*
* 5714.0			3.5	8	12.9	13.9	*
* 5716.0			3.5	6	12.6	13.3	*
* 5718.0			3.5	5	12.2	12.9	*
* 5720.0			3.5	4	12.2	13.0	*
* 5722.0			3.5	2	12.1	13.0	*
* 5724.0			3.5	0	11.9	12.9	*
* 5726.0	9.2	101	3.5	1	11.8	12.8	3 *
* 5728.0			3.5	3	11.8	12.7	*
* 5730.0	11.6	140	3.5	4	12.2	12.7	1 *
* 5732.0	4.8	137	3.5	5	12.7	13.3	3 *
* 5734.0	5.0	149	3.5	6	13.4	13.8	3 *
* 5736.0			3.5	6	13.4	13.8	*
* 5738.0	13.3	151	3.5	7	13.3	14.0	1 *
* 5740.0			3.5	8	12.9	13.4	*
* 5742.0			3.5	8	11.8	12.7	*
* 5744.0	7.4	137	3.5	6	11.4	12.5	3 *

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* FORMATION *		* BOREHOLE *		* QUAL. *			
*-----*							
* DEPTH *	* DIP *	* DIP AZI. *	* DEV. *	* DEV. AZI. *	* DIAM 1-3 *	* DIAM 2-4 *	* INDEX BEST =4 *
* 7602.0	8.3	188	6.3	360	10.2	10.5	4
* 7604.0	6.9	181	6.3	360	10.3	10.5	2
* 7606.0	18.6	175	6.3	358	10.4	10.8	4
* 7608.0	17.0	183	6.3	356	10.6	11.1	4
* 7610.0	15.0	180	6.3	358	10.7	11.2	4
* 7612.0	15.4	171	6.2	359	10.8	11.2	4
* 7614.0	15.9	179	6.2	358	10.9	11.2	4
* 7616.0	17.3	187	6.3	358	10.9	11.3	4
* 7618.0	15.4	171	6.3	358	10.9	11.3	4
* 7620.0	10.8	165	6.2	358	11.0	11.4	2
* 7622.0	14.4	203	6.1	359	11.0	11.6	2
* 7624.0	7.5	208	6.1	359	11.0	11.5	2
* 7626.0	9.2	186	6.1	357	11.0	11.9	4
* 7628.0	11.3	184	6.2	356	11.0	12.0	2
* 7630.0	11.5	180	6.3	354	10.9	11.6	4
* 7632.0	11.8	180	6.3	354	10.9	11.6	4
* 7634.0	11.5	185	6.3	358	11.0	12.3	4
* 7636.0	10.4	178	6.3	357	11.0	12.3	4
* 7638.0	10.2	171	6.3	356	11.0	11.6	4
* 7640.0	8.4	162	6.3	356	10.9	11.4	4
* 7642.0	7.9	164	6.3	356	11.0	11.4	4
* 7644.0	11.0	174	6.3	355	11.0	11.3	2
* 7646.0	8.1	176	6.3	353	11.0	11.2	4
* 7648.0	8.2	175	6.3	351	11.0	11.2	4
* 7650.0			6.3	351	11.1	11.1	
* 7652.0	14.3	171	6.4	351	11.1	11.1	4
* 7654.0	10.1	176	6.4	352	11.1	11.0	4
* 7656.0	8.6	178	6.4	351	11.0	11.0	4
* 7658.0	11.5	162	6.4	350	11.0	10.9	4
* 7660.0	11.5	178	6.4	350	10.9	10.9	4
* 7662.0	11.1	180	6.4	354	10.8	11.1	4
* 7664.0	11.8	182	6.4	355	10.9	11.4	4
* 7666.0	12.3	181	6.4	352	10.8	11.4	4
* 7668.0	9.5	174	6.4	355	10.7	12.0	6
* 7670.0	8.9	179	6.4	360	10.8	12.9	4
* 7672.0	8.7	135	6.3	358	10.9	12.3	4
* 7674.0	15.9	170	6.3	354	10.9	11.4	2
* 7676.0			6.3	354	10.8	11.3	
* 7678.0	13.3	192	6.3	355	10.7	11.3	4
* 7680.0	13.3	192	6.3	353	10.6	11.1	4
* 7682.0	12.6	190	6.3	352	10.6	10.9	4
* 7684.0	12.3	181	6.3	352	10.5	10.9	4
* 7686.0	12.1	180	6.3	353	10.5	10.9	4
* 7688.0	10.2	190	6.3	353	10.5	11.0	4
* 7690.0	10.7	198	6.3	353	10.5	11.0	4

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*          *      FORMATION      *          *      BOREHOLE      *      QUAL.      *
*          *      -----      *          *      -----      *      INDEX      *
*  DEPTH  *      DIP      DIP      *  DEV.    *  DEV.    *  DIAM      *  DIAM      *  BEST      *
*          *      AZI.    *      AZI.    *      1-3    *      2-4    *      #4      *
*****
*  7692.0  *  11.2    *  205    *  6.3    *  355    *  10.4    *  11.1    *  4      *
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*****									
* FORMATION *					* BUREHOLE *		* QUAL. *		
*****									
* DEPTH *	* DIP	* DIP	* DEV.	* DEV.	* DIAM	* DIAM	* BEST	* INDEX *	
		AZI.		AZI.	1-3	2-4	=4		
*****									
* 9502.0			7.4	9	9.1	10.1			*
* 9504.0			7.4	10	9.1	10.3			*
* 9506.0			7.4	11	9.1	10.4			*
* 9508.0			7.4	12	9.1	10.4			*
* 9510.0	16.4	223	7.4	12	9.1	10.3	1		*
* 9512.0	14.8	233	7.4	11	9.1	10.2	3		*
* 9514.0	15.0	234	7.4	11	9.1	10.1	3		*
* 9516.0	15.3	226	7.4	11	9.0	10.2	1		*
* 9518.0	17.2	238	7.4	12	8.9	11.0	1		*
* 9520.0			7.4	12	8.8	11.5			*
* 9522.0	19.3	245	7.4	12	8.8	11.0	1		*
* 9524.0	17.1	252	7.4	12	8.9	10.4	1		*
* 9526.0	77.6	134	7.4	11	9.0	10.2	1		*
* 9528.0			7.4	11	9.1	10.7			*
* 9530.0	15.2	211	7.4	12	9.1	11.5	1		*
* 9532.0			7.4	15	9.1	11.8			*
* 9534.0			7.4	16	9.1	11.8			*
* 9536.0			7.4	15	9.0	11.9			*
* 9538.0			7.4	15	8.9	12.4			*
* 9540.0	10.2	246	7.4	16	9.0	12.5	1		*
* 9542.0	12.3	235	7.4	16	9.0	12.2	3		*
* 9544.0			7.4	17	9.0	12.1			*
* 9546.0			7.4	16	9.0	12.1			*
* 9548.0			7.4	16	9.0	12.4			*
* 9550.0	16.6	250	7.4	17	8.8	12.6	2		*
* 9552.0	14.1	259	7.4	17	8.8	12.6	4		*
* 9554.0	11.2	274	7.4	16	9.0	12.5	4		*
* 9556.0	15.3	264	7.4	16	9.0	11.6	4		*
* 9558.0	16.4	257	7.4	17	9.0	10.9	4		*
* 9560.0	14.2	247	7.4	16	8.9	11.1	4		*
* 9562.0	4.8	228	7.4	16	8.8	11.2	2		*
* 9564.0	10.1	232	7.4	17	8.8	11.2	4		*
* 9566.0	18.7	256	7.4	17	8.8	11.2	4		*
* 9568.0	16.5	253	7.3	16	8.8	11.2	4		*
* 9570.0	15.7	242	7.3	16	8.9	11.4	3		*
* 9572.0	8.6	255	7.3	17	9.0	11.7	1		*
* 9574.0			7.3	18	9.1	12.3			*
* 9576.0			7.3	19	9.1	12.4			*
* 9578.0	23.0	256	7.3	19	9.0	12.3	1		*
* 9580.0	20.1	238	7.3	18	8.9	12.5	1		*
* 9582.0			7.3	19	8.9	12.4			*
* 9584.0			7.2	21	9.0	12.4			*
* 9586.0			7.2	20	9.0	12.9			*
* 9588.0			7.2	19	9.0	12.9			*
* 9590.0	19.8	242	7.2	21	9.0	12.8	2		*
*****									



*****									
* FORMATION *					* BOREHOLE *		* QUAL. *		
*****									
* DEPTH *	* DIP *	DIP	* DEV. *	DEV.	DIAM	DIAM	* BEST *	* INDEX *	
		AZI.		AZI.	1-3	2-4		* #4 *	
*****									
* 11152.0	32.0	256	6.9	62	8.8	8.8	3	*	
* 11154.0			6.9	62	9.0	8.8		*	
* 11156.0	29.3	255	6.9	63	8.9	8.7	1	*	
* 11158.0			6.9	64	8.8	8.8		*	
* 11160.0			6.9	63	8.9	8.9		*	
* 11162.0	34.8	244	6.9	63	8.9	8.9	1	*	
* 11164.0	29.6	240	6.9	63	9.0	9.0	2	*	
* 11166.0	30.8	244	6.9	63	9.0	8.9	2	*	
* 11168.0			6.9	63	9.0	8.9		*	
* 11170.0	31.4	238	6.9	63	9.0	8.9	4	*	
* 11172.0	29.8	232	6.9	63	9.0	8.8	4	*	
* 11174.0	32.9	233	6.9	65	9.0	8.7	4	*	
* 11176.0	34.5	232	6.9	64	9.0	8.9	4	*	
* 11178.0	30.0	250	6.9	63	9.0	8.9	2	*	
* 11180.0	33.4	242	6.9	63	9.1	8.7	2	*	
* 11182.0	34.9	235	6.9	64	9.1	8.6	2	*	
* 11184.0			6.9	65	9.1	8.7		*	
* 11186.0			6.9	67	9.0	8.9		*	
* 11188.0	23.7	244	6.9	67	9.0	8.9	1	*	
* 11190.0	24.5	249	6.9	66	9.0	8.8	3	*	
* 11192.0			6.9	66	9.0	8.7		*	
* 11194.0			6.9	67	9.0	8.8		*	
* 11196.0			6.9	68	9.0	8.8		*	
* 11198.0			7.0	69	9.0	8.6		*	
* 11200.0			7.0	70	8.8	8.8		*	
* 11202.0			6.9	70	8.7	8.9		*	
* 11204.0			6.9	69	8.9	8.9		*	
* 11206.0			6.9	69	8.9	9.0		*	
* 11208.0			6.9	71	8.9	8.9		*	
* 11210.0			6.9	71	9.0	8.9		*	
* 11212.0			6.9	70	9.0	8.9		*	
* 11214.0			6.9	70	9.0	8.8		*	
* 11216.0			6.9	70	9.0	8.8		*	
* 11218.0			6.9	69	9.0	8.9		*	
* 11220.0			6.9	68	9.0	8.9		*	
* 11222.0			6.8	65	8.9	8.9		*	
* 11224.0	21.1	239	6.8	66	8.9	8.9	3	*	
* 11226.0	21.9	246	6.9	67	9.0	8.9	3	*	
* 11228.0	21.8	247	6.9	66	9.0	9.0	3	*	
* 11230.0			6.9	67	9.0	8.9		*	
* 11232.0	23.9	255	6.9	69	8.9	8.9	1	*	
* 11234.0	22.3	256	6.9	69	9.0	9.0	3	*	
* 11236.0	25.9	218	6.9	69	8.9	8.9	1	*	
* 11238.0	27.6	219	6.9	70	8.9	8.9	1	*	
* 11240.0	23.8	221	6.9	70	8.9	8.8	3	*	
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* FORMATION *					* BOREHOLE *		* QUAL. *		
*-----*									
* DEPTH *	* DIP *	* DIP *	* DEV. *	* DEV. *	* DIAM *	* DIAM *	* INDEX *		
		AZI.		AZI.	1-3	2-4	* =4 *		
*****									
* 11242.0	15.9	237	6.9	70	8.0	8.0	1	*	*
* 11244.0	15.1	233	6.9	70	8.9	8.8	4	*	*
* 11246.0	14.9	236	6.9	72	8.9	8.8	4	*	*
* 11248.0	14.5	239	6.9	72	8.8	8.8	2	*	*
* 11250.0	15.8	246	7.0	71	8.8	8.7	2	*	*
* 11252.0	14.0	259	6.9	71	8.7	8.7	3	*	*
* 11254.0	14.6	259	6.9	69	8.7	8.8	3	*	*
* 11256.0	17.4	253	6.9	68	8.8	8.8	3	*	*
* 11258.0	17.8	251	7.0	67	8.8	8.9	3	*	*
* 11260.0	30.4	245	7.0	69	8.8	8.9	1	*	*
* 11262.0	32.9	247	7.1	71	8.7	8.8	1	*	*
* 11264.0	34.2	235	7.1	71	8.8	8.7	1	*	*
* 11266.0			7.2	70	8.9	8.7		*	*
* 11268.0	33.5	234	7.3	70	8.9	8.7	1	*	*
* 11270.0			7.2	70	8.8	8.8		*	*
* 11272.0	33.0	244	7.3	71	8.8	8.8	4	*	*
* 11274.0	32.3	242	7.3	70	8.8	8.8	4	*	*
* 11276.0	31.1	245	7.3	70	8.8	8.7	4	*	*
* 11278.0	32.0	244	7.3	70	8.7	8.5	4	*	*
* 11280.0	32.0	243	7.2	72	8.6	8.1	4	*	*
* 11282.0	34.5	251	7.0	74	8.6	8.2	2	*	*
* 11284.0	31.8	250	6.9	73	8.8	8.7	2	*	*
* 11286.0	29.6	250	6.9	73	8.9	8.8	4	*	*
* 11288.0	19.8	254	6.9	72	9.1	8.8	4	*	*
* 11290.0	20.0	256	6.9	72	9.1	8.8	4	*	*
* 11292.0	22.3	250	6.9	72	9.0	8.7	2	*	*
* 11294.0	20.4	253	6.9	72	8.8	8.7	2	*	*
* 11296.0	13.9	242	6.9	71	8.8	8.7	1	*	*
* 11298.0			6.9	71	8.9	8.7		*	*
* 11300.0	7.2	221	6.9	71	8.9	8.7	1	*	*
* 11302.0			6.9	70	8.9	8.8		*	*
* 11304.0			6.9	71	8.9	8.8		*	*
* 11306.0			6.9	71	8.9	8.7		*	*
* 11308.0	14.4	239	6.0	71	8.8	8.8	1	*	*
* 11310.0	11.7	255	6.9	70	8.8	8.8	3	*	*
* 11312.0	9.1	265	6.9	69	8.8	8.8	3	*	*
* 11314.0	9.3	240	6.8	68	8.9	8.8	3	*	*
* 11316.0	9.9	234	6.8	69	8.8	8.8	1	*	*
* 11318.0	14.0	209	6.8	70	8.9	8.8	3	*	*