Form 3160-4
(August 1999)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

New Mexico Oil Conservation Division, District I
1625 N. French Drive
Hobbs, NM 88240

FORM APPROVED
OMB NO. 1004-0137
Expires: November 30, 2000

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.: NMNM30400

1a. Type of Well: ☐ Oil Well ☐ Gas Well ☐ Dry ☒ Other Water Injection

b. Type of Completion: ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff.Resvr,. Other

6. If Indian, Allotee or Tribe Name:

7. Unit or CA Agreement Name and No.: NMNM104037X

2. Name of Operator: EOG Resources Inc.

8. Lease Name and Well No.: Red Hills North Unit 606H

3. Address: P.O. Box 2267 Midland TX 79702

3a. Phone No. (include area code): 915 686 3689

9. API Well No.: 30-025-35901

4. Location of Well (Report location clearly and in accordance with Federal requirements)*

At surface: 530 FSL & 1650 FEL, Unit O

10. Field and Pool, or Exploratory: Red Hills; Bone Spring

11. Sec., T., R., M., or Block and Survey or Area: Sec 6, T25S, R34E

At top prod. interval reported below

At total depth: ~~1400 FNL & 2150 FWL, Unit F~~ A-12-25s-33e 1187/N & 564/E

12. County or Parish: Lea

13. State: NM

14. Date Spudded: 6/5/02

15. Date T.D. Reached: 8/5/02

16. Date Completed: ☐ D & A ☒ Ready to Prod. 9/15/02

17. Elevations (DF, RKB, RT, GL)*: 3433 GL

18. Total Depth: MD 18293 TVD 12309

19. Plug Back T.D.: MD 18293 TVD 12309

20. Depth Bridge Plug Set: MD TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)

22. Was well cored? ☒ No ☐ Yes (Submit analysis)
Was DST run ☒ No ☐ Yes (Submit report
Directional Survey? ☒ No ☐ Yes (Submit copy)

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt.(#ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No.of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17 1/2	13 3/8	48		650		475 PP		Surface	
12 1/4	9 5/8	40		5100		1125 C		Surface	
						250 PP			
8 3/4	7	26		12390		780 Econ		5100 Calc	
						250 POZ			
6 1/8	4 1/2	11.6	11515	18151					

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2 7/8	11508	11508						

25. Producing Intervals / 26. Perforation Record

	Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A)	Bone Spring	12730	15790	12730-15790		52	Active
B)		16096	18112	16096-18112		47	Active
C)							
D)							

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
12730-15790	See Attached
16096-18112	See Attached

ACCEPTED FOR RECORD
SEP 26 2002
GARY GOURLEY
PETROLEUM ENGINEER

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. →	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio	Well Status	
								Injection	

28a. Production-Interval B

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. →	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio	Well Status	

MAR 28 2003

(See instructions and spaces for additional data on reverse side)

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity	Gas Gravity	Production Method

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. →	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio	Well Status

28c. Production-Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity	Gas Gravity	Production Method

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. →	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio	Well Status

29. Disposition of Gas (Sold,used for fuel, vented, etc.)

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas.Depth
Bone Spring	12730	15790		Delaware	5280
	16096	18112		Bone Spring	9255
				1st Bone Spring	10255
				3rd Bone Spring	11930

32. Additional remarks (include plugging procedure):

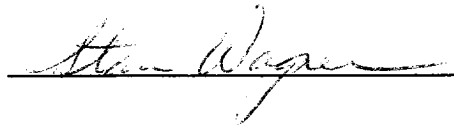
Water injection commenced 9/15/02. Initial rate 2636 BWIPD @ 0-25 psi
OCD Order No. R-11389-A, authority to inject

33. Circle enclosed attachments:

1. Electrical/Mechanical Logs (1 full set req'd) 2. Geologic Report 3. DST Report 4. Directional Survey
5. Sundry Notice for plugging and cement verification 6. Core Analysis 7. Other

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)*

Name (please print) Stan Wagner Title Regulatory Analyst

Signature  Date 9/18/02

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Item 27: Stimulation

12730-15790	Frac w/ 30# Delta Frac 200 & 16/30 Carbo Lite as follows: 34,282 gal 10# Water Frac G 10,000 gal 7 ½% HCL Spearhead acid 43,383 gal pad 8613 gal pad w/ 0.5 ppg Carbo Lite 7178 gal pad w/ 1.0 ppg Carbo Lite 14,956 gal pad w/ 2.0 ppg Carbo Lite 18,595 gal pad w/ 3.0 ppg Carbo Lite 13,871 gal pad w/ 3.5 ppg Carbo Lite 4230 gal pad w/ 4.0 ppg Carbo Lite
16096-18112	Frac w/ 30# Delta Frac 200 & 16/30 Carbo Lite as follows: 30,768 gal 10# Water Frac G, 10,000 gal 7 1/2 % HCL Spearhead acid. 31,134 gal pad 6502 gal pad w/ 0.5 ppg Carbo Lite 5165 gal pad w/ 1.0 ppg Carbo Lite 10,892 gal pad w/ 2.0 ppg Carbo Lite 14,702 gal pad w/ 3.0 ppg Carbo Lite 19,057 gal pad w/ 3.5 ppg Carbo Lite 5097 gal 30# Gel Flush Pump 8,000 gal 10% MSA Acid

SCANNED

Well Name and Number: Red Hills North Unit #606

Location: Sec. 6, T25S, R34E, Lea County, NM

Operator: EOG Resources, Inc.

Drilling Contractor: McVay Drilling Company

The undersigned certifies that he is an authorized representative of the drilling contractor who drilled the above described well and that he has conducted deviation tests and obtained the following results:

Degrees @ Depth		Degrees @ Depth		Degrees @ Depth		Degrees @ Depth	
¾	90	1	10209	89 ½	13785	89 ½	16107
½	497	1 ¼	10723	90 ¼	13817	89 ¾	16171
1	660	1	11204	89	13885	90 ¼	16234
¼	1043	1 ¾	11934	89	13917	91 ½	16341
½	1520	11 ½	11998	90 ¾	14012	91	16393
½	2027	23 ¼	12052	92	14043	90	16457
½	2536	34 ½	12125	90 ½	14266	87.7	16679
¾	3043	57 ½	12254	89 ¾	14329	89.9	16902
2	3552	62 ¾	12286	89 ½	14361	89.3	16993
2 ¼	3802	67 ¾	12318	90 ½	14423	89.3	17153
1	4055	82	12390	90	14709	93 ¼	17345
¾	4501	85 ¼	12455	90 ½	14804	89 ¾	17566
¾	4722	95 ½	12544	91	15058	88	17628
1 ¾	5110	85	12581	89 ½	15091	86 ½	17692
1 ¼	5611	85 ½	12708	88	15123	85 ¾	17755
¾	6117	89 ½	12867	90 ¾	15187	87 ½	17819
¼	6625	89 ½	12899	92 ½	15314	88	17914
¼	7133	87	13057	92 ½	15378	87 ½	18073
¼	7607	87 ¾	13152	91 ¾	15472	87 ¼	18136
½	8083	88 ¾	13194	91 ¼	15726	87	18201
¾	8166	89 ½	13289	91 ¼	15758	87	18232
¾	8558	89 ¾	13407	90 ¾	15885	87 ¼	18265
1	9065	89	13668	90	15947	87 ½	18297
1	9572	89 ¾	13763	90	16043		

Drilling Contractor: McVay Drilling Company

By: _____

Subscribed and sworn to before me this 20th **day of** September **, 2002**

_____
Notary Public

My Commission Expires: 8-16-05 **Lea County, New Mexico**

RECEIVED
OCD

A Gyrodata Directional Survey

for

EOG RESOURCES

Location: MCVAY #10, LEA COUNTY, NEW MEXICO
Well: RED HILLS N.U #606H, 4-1/2" DRILLPIPE

SUR: O-6-25s-34e, 530/S & 1650/E
BHL: A-12-25s-33e, 1187/N & 564/E
API # 30-025-35901

Job Number: MD0602GGW178

Run Date: 6/22/02 1:46:12 PM

Surveyor: Jerry Gay

Calculation Method: MINIMUM CURVATURE

Survey Latitude: 32.153660 deg. N

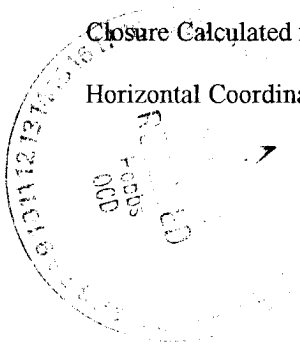
Azimuth Correction:
Gyro: -0.44000 deg West to Grid North

Proposed Well Direction: 253.640 deg

Vertical Section Calculated from Well Head Location

Closure Calculated from Well Head Location

Horizontal Coordinates Calculated from Well Head Location



A Gyrodata Directional Survey

EOG RESOURCES
Well: RED HILLS N.U #606H, 4-1/2" DRILLPIPE
Location: MCVAY #10, LEA COUNTY, NEW MEXICO
Job Number: MERGEJOB_01

MEASURED DEPTH feet	I N C L deg.	AZIMUTH deg.	VERTICAL SECTION feet	DOGLEG SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE DIST. feet	AZIMUTH deg.	HORIZONTAL COORDINATES feet	
0.0	0.00	0.00	0.0	0.00	0.0	0.0	0.0	0.00 N	0.00 E

0 – 11904 FT RATE GYROSCOPIC MILTISHOT GAMMA SURVEY RUN INSIDE 4-1/2" DRILLPIPE
ALL MEASURED DEPTHS AND COORDINATES REFERENCED TO MCVAY # 10 R.K.B

200.0	0.61	175.27	0.2	0.31	200.0	1.1	175.3	1.06 S	0.09 E
400.0	0.62	162.88	0.4	0.07	400.0	3.2	171.1	3.16 S	0.49 E
600.0	0.56	179.87	0.7	0.09	600.0	5.2	171.0	5.17 S	0.81 E
800.0	0.51	181.99	1.2	0.03	800.0	7.1	173.6	7.03 S	0.79 E
1000.0	0.38	185.37	1.8	0.07	1000.0	8.6	175.4	8.58 S	0.69 E
1200.0	0.21	155.10	1.9	0.11	1200.0	9.6	175.3	9.58 S	0.79 E
1400.0	0.40	191.21	2.2	0.13	1400.0	10.6	175.7	10.59 S	0.80 E
1600.0	0.37	176.13	2.7	0.05	1599.9	11.9	176.6	11.92 S	0.71 E
1800.0	0.36	194.26	3.1	0.06	1799.9	13.2	177.4	13.18 S	0.60 E
2000.0	0.22	195.55	3.7	0.07	1999.9	14.2	178.6	14.16 S	0.34 E
2200.0	0.17	215.78	4.1	0.04	2199.9	14.8	179.7	14.77 S	0.07 E
2400.0	0.23	168.77	4.4	0.08	2399.9	15.4	180.1	15.40 S	0.03 W
2600.0	0.15	29.48	4.2	0.18	2599.9	15.6	179.3	15.57 S	0.18 E
2800.0	0.16	51.28	3.8	0.03	2799.9	15.2	178.0	15.16 S	0.53 E
3000.0	0.55	32.60	2.8	0.20	2999.9	14.2	174.9	14.18 S	1.26 E
3200.0	1.39	52.48	-0.2	0.45	3199.9	12.5	162.7	11.89 S	3.70 E
3400.0	2.03	56.11	-5.8	0.32	3399.8	12.0	134.6	8.44 S	8.57 E
3600.0	2.82	62.94	-14.1	0.42	3599.6	16.4	104.9	4.23 S	15.89 E
3800.0	2.72	65.85	-23.6	0.09	3799.4	24.6	90.1	0.05 S	24.60 E

A Gyrodata Directional Survey

EOG RESOURCES
Well: RED HILLS N.U #606H, 4-1/2" DRILLPIPE
Location: MCVAY #10, LEA COUNTY, NEW MEXICO
Job Number: MERGEJOB_01

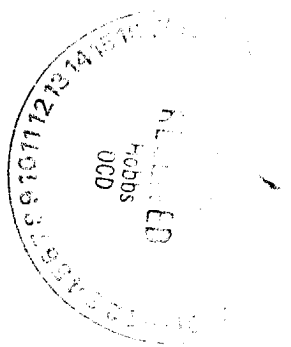
MEASURED DEPTH feet	I N C L deg.	AZIMUTH deg.	VERTICAL SECTION feet	DOGLEG SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE DIST. feet	CLOSURE AZIMUTH deg.	HORIZONTAL COORDINATES feet	
4000.0	2.03	76.31	-31.8	0.41	3999.2	32.5	85.2	2.73 N	32.37 E
4200.0	1.55	62.60	-38.0	0.32	4199.1	38.5	82.8	4.81 N	38.21 E
4400.0	1.02	29.24	-41.9	0.45	4399.1	42.2	79.6	7.61 N	41.49 E
4600.0	1.32	39.49	-45.1	0.18	4599.0	45.2	76.0	10.94 N	43.82 E
4800.0	2.07	52.42	-50.4	0.42	4799.0	50.4	72.8	14.92 N	48.15 E
5000.0	2.29	74.45	-57.8	0.43	4998.8	57.8	71.6	18.20 N	54.86 E
5200.0	1.57	77.48	-64.5	0.36	5198.7	64.5	72.1	19.86 N	61.38 E
5400.0	0.94	65.89	-68.9	0.34	5398.6	68.9	72.1	21.13 N	65.56 E
5600.0	1.05	66.34	-72.3	0.06	5598.6	72.3	71.8	22.53 N	68.73 E
5800.0	1.02	63.37	-75.9	0.03	5798.6	75.9	71.5	24.07 N	72.00 E
6000.0	0.80	49.78	-78.9	0.15	5998.6	79.0	71.0	25.77 N	74.66 E
6200.0	0.79	45.25	-81.4	0.03	6198.5	81.5	70.2	27.64 N	76.70 E
6400.0	0.63	39.22	-83.5	0.09	6398.5	83.7	69.4	29.46 N	78.38 E
6600.0	0.68	37.33	-85.4	0.03	6598.5	85.7	68.6	31.26 N	79.79 E
6800.0	0.58	38.35	-87.1	0.05	6798.5	87.6	67.9	32.99 N	81.14 E
7000.0	0.60	39.38	-88.8	0.01	6998.5	89.4	67.2	34.60 N	82.43 E
7200.0	0.67	62.76	-90.9	0.13	7198.5	91.5	66.9	35.94 N	84.14 E
7400.0	0.61	62.11	-93.0	0.03	7398.5	93.7	66.8	36.97 N	86.12 E
7600.0	0.64	55.21	-95.1	0.04	7598.5	95.9	66.6	38.11 N	87.98 E
7800.0	0.56	83.58	-97.2	0.15	7798.4	97.9	66.6	38.86 N	89.87 E
8000.0	0.59	121.28	-98.8	0.19	7998.4	99.4	67.3	38.43 N	91.72 E
8200.0	0.84	131.16	-100.3	0.14	8198.4	100.7	68.5	36.93 N	93.70 E
8400.0	0.91	131.99	-101.9	0.04	8398.4	102.1	70.0	34.90 N	95.98 E
8600.0	1.36	144.90	-103.5	0.26	8598.4	103.6	72.1	31.90 N	98.53 E
8800.0	1.42	146.88	-105.0	0.04	8798.3	105.0	74.6	27.88 N	101.25 E

A Gyrodata Directional Survey

EOG RESOURCES
Well: RED HILLS N.U #606H, 4-1/2" DRILLPIPE
Location: MCVAY #10, LEA COUNTY, NEW MEXICO
Job Number: MERGEJOB_01

MEASURED DEPTH feet	I N C L deg.	AZIMUTH deg.	VERTICAL SECTION feet	DOGLEG SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE DIST. feet	CLOSURE AZIMUTH deg.	HORIZONTAL COORDINATES feet	
9000.0	1.41	163.89	-105.7	0.21	8998.2	105.9	77.2	23.44 N	103.29 E
9200.0	1.30	168.39	-105.5	0.08	9198.2	106.1	79.8	18.86 N	104.42 E
9400.0	0.93	189.77	-104.6	0.28	9398.1	105.7	81.8	15.04 N	104.61 E
9600.0	0.95	194.38	-103.0	0.04	9598.1	104.6	83.5	11.83 N	103.92 E
9800.0	0.90	197.47	-101.3	0.04	9798.1	103.4	85.2	8.73 N	103.04 E
10000.0	0.66	164.90	-100.4	0.25	9998.1	103.0	86.6	6.11 N	102.86 E
10200.0	0.69	150.01	-100.7	0.09	10198.1	103.8	87.8	3.96 N	103.77 E
10400.0	0.51	157.62	-101.1	0.10	10398.0	104.7	88.9	2.09 N	104.71 E
10600.0	0.88	211.49	-100.0	0.36	10598.0	104.2	90.0	0.04 S	104.24 E
10800.0	1.17	232.86	-97.0	0.24	10798.0	101.8	91.5	2.58 S	101.81 E
11000.0	1.11	234.26	-93.2	0.03	10998.0	98.7	92.9	4.95 S	98.61 E
11200.0	0.93	219.06	-90.1	0.16	11197.9	96.3	94.4	7.34 S	96.02 E
11400.0	1.42	202.21	-87.2	0.30	11397.9	94.7	96.6	10.89 S	94.06 E
11600.0	1.22	223.34	-83.8	0.26	11597.8	92.8	99.1	14.74 S	91.66 E
11800.0	0.55	207.51	-81.3	0.35	11797.8	91.4	100.8	17.14 S	89.76 E
11904.0	0.29	228.79	-80.7	0.29	11901.8	91.1	101.2	17.75 S	89.33 E

Final Station Closure: Distance: 91.07 ft Az: 101.24 deg.



Computalog Drilling Services

Client : EOG Resources
Well : Red Hills North Unit #606H
Location : Lea County, New Mexico
License :
UWI #:

Page: 1
Date : 8/4/2002
File : 50455

Vertical Section Calculated Along Azimuth 253.64°
KB Elevation = 3453.00ft GR. Elevation = 3433.00ft

	MD	Inc	Azi	TVD	North	East	V'Sect	D'Leg	Build	Turn
	ft	deg	deg	ft	ft	ft	ft	°/100	°/100	°/100
0	11904.00	0.29	228.79	11901.80	-17.68	89.35	-80.76	0.00	0.00	0.00
1	11934.00	1.70	237.80	11931.79	-17.97	88.92	-80.26	4.71	4.70	30.03
2	11966.00	6.20	248.30	11963.71	-18.86	86.91	-78.08	14.18	14.06	32.81
3	11998.00	11.40	254.70	11995.32	-20.33	82.25	-73.19	16.51	16.25	20.00
4	12030.00	17.40	257.50	12026.30	-22.21	74.52	-65.25	18.87	18.75	8.75
5	12062.00	23.30	258.60	12056.29	-24.49	63.64	-54.16	18.48	18.44	3.44
6	12094.00	29.40	258.70	12084.96	-27.29	49.72	-40.02	19.06	19.06	0.31
7	12125.00	34.60	257.50	12111.24	-30.69	33.65	-23.65	16.90	16.77	-3.87
8	12157.00	39.70	253.90	12136.74	-35.49	14.95	-4.35	17.32	15.94	-11.25
9	12189.00	46.00	253.30	12160.19	-41.64	-5.92	17.40	19.73	19.69	-1.87
10	12221.00	51.90	253.70	12181.19	-48.48	-29.05	41.53	18.46	18.44	1.25
11	12254.00	57.50	255.10	12200.25	-55.71	-54.98	68.44	17.32	16.97	4.24
12	12286.00	62.70	254.80	12216.20	-62.92	-81.76	96.17	16.27	16.25	-0.94
13	12318.00	67.80	254.80	12229.59	-70.53	-109.79	125.21	15.94	15.94	0.00
14	12345.00	72.10	256.60	12238.85	-76.79	-134.37	150.55	17.11	15.93	6.67
15	12423.00	84.80	252.40	12254.44	-97.23	-207.82	226.79	17.11	16.28	-5.38
16	12455.00	85.30	253.80	12257.20	-106.49	-238.32	258.67	4.63	1.56	4.37
17	12486.00	85.60	254.30	12259.66	-114.99	-268.04	289.57	1.88	0.97	1.61
18	12517.00	85.30	254.00	12262.12	-123.43	-297.76	320.47	1.37	-0.97	-0.97
19	12549.00	85.60	254.40	12264.66	-132.11	-328.46	352.37	1.56	0.94	1.25
20	12581.00	85.00	253.00	12267.28	-141.06	-359.07	384.26	4.75	-1.87	-4.38
21	12612.00	84.10	252.50	12270.22	-150.21	-388.54	415.12	3.32	-2.90	-1.61
22	12645.00	84.50	252.60	12273.50	-160.06	-419.87	447.95	1.25	1.21	0.30
23	12676.00	85.10	251.40	12276.31	-169.60	-449.23	478.81	4.31	1.94	-3.87
24	12708.00	85.50	251.70	12278.93	-179.69	-479.48	510.68	1.56	1.25	0.94
25	12740.00	86.70	251.20	12281.11	-189.85	-509.75	542.58	4.06	3.75	-1.56
26	12771.00	89.20	251.90	12282.22	-199.65	-539.13	573.54	8.37	8.06	2.26
27	12804.00	89.40	252.20	12282.62	-209.82	-570.52	606.52	1.09	0.61	0.91
28	12835.00	89.50	252.10	12282.92	-219.33	-600.03	637.51	0.46	0.32	-0.32
29	12867.00	89.50	252.30	12283.20	-229.11	-630.50	669.50	0.62	0.00	0.63
30	12899.00	89.60	254.20	12283.45	-238.33	-661.14	701.49	5.95	0.31	5.94
31	12930.00	89.60	254.10	12283.67	-246.80	-690.96	732.49	0.32	0.00	-0.32
32	12962.00	89.00	254.80	12284.06	-255.37	-721.78	764.49	2.88	-1.87	2.19
33	12994.00	87.40	254.50	12285.06	-263.84	-752.62	796.46	5.09	-5.00	-0.94

Computalog Drilling Services

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Vertical Section Calculated Along Azimuth 253.64°
KB Elevation = 3453.00ft GR. Elevation = 3433.00ft

	MD ft	Inc deg	Azi deg	TVD ft	North ft	East ft	V'Sect ft	D'Leg °/100	Build °/100	Turn °/100
34	13026.00	86.60	255.20	12286.74	-272.19	-783.47	828.41	3.32	-2.50	2.19
35	13057.00	87.00	253.90	12288.47	-280.44	-813.30	859.36	4.38	1.29	-4.19
36	13088.00	87.00	254.10	12290.09	-288.97	-843.06	890.32	0.64	0.00	0.65
37	13120.00	88.40	253.50	12291.38	-297.89	-873.76	922.29	4.76	4.37	-1.88
38	13152.00	87.70	253.60	12292.46	-306.95	-904.44	954.27	2.21	-2.19	0.31
39	13184.00	88.70	255.70	12293.47	-315.41	-935.28	986.25	7.27	3.12	6.56
40	13215.00	89.10	254.90	12294.06	-323.28	-965.26	1017.23	2.88	1.29	-2.58
41	13247.00	89.30	254.20	12294.51	-331.80	-996.10	1049.22	2.27	0.63	-2.19
42	13279.00	89.60	254.50	12294.82	-340.43	-1026.91	1081.22	1.33	0.94	0.94
43	13311.00	89.30	253.90	12295.13	-349.15	-1057.70	1113.21	2.10	-0.94	-1.87
44	13343.00	89.20	253.60	12295.54	-358.10	-1088.42	1145.21	0.99	-0.31	-0.94
45	13375.00	89.60	253.70	12295.88	-367.11	-1119.12	1177.21	1.29	1.25	0.31
46	13407.00	89.80	253.90	12296.05	-376.03	-1149.85	1209.21	0.88	0.62	0.63
47	13471.00	88.90	253.80	12296.77	-393.83	-1211.32	1273.20	1.41	-1.41	-0.16
48	13503.00	88.80	253.70	12297.42	-402.79	-1242.04	1305.20	0.44	-0.31	-0.31
49	13533.00	88.10	252.90	12298.23	-411.40	-1270.76	1335.19	3.54	-2.33	-2.67
50	13596.00	89.80	253.90	12299.38	-429.40	-1331.12	1398.17	3.13	2.70	1.59
51	13628.00	89.20	253.20	12299.66	-438.46	-1361.81	1430.17	2.88	-1.88	-2.19
52	13660.00	89.20	253.50	12300.11	-447.63	-1392.46	1462.17	0.94	0.00	0.94
53	13692.00	90.00	253.00	12300.33	-456.85	-1423.11	1494.16	2.95	2.50	-1.56
54	13724.00	90.40	252.80	12300.22	-466.26	-1453.69	1526.16	1.40	1.25	-0.62
55	13755.00	89.70	252.20	12300.19	-475.58	-1483.26	1557.15	2.97	-2.26	-1.94
56	13785.00	89.60	252.40	12300.38	-484.70	-1511.84	1587.15	0.75	-0.33	0.67
57	13817.00	90.30	253.10	12300.40	-494.19	-1542.40	1619.14	3.09	2.19	2.19
58	13885.00	89.00	251.50	12300.82	-514.86	-1607.17	1687.12	3.03	-1.91	-2.35
59	13917.00	89.00	251.50	12301.38	-525.02	-1637.51	1719.09	0.00	0.00	0.00
60	13949.00	90.50	252.10	12301.52	-535.01	-1667.91	1751.07	5.05	4.69	1.87
61	13981.00	90.10	252.20	12301.35	-544.82	-1698.37	1783.06	1.29	-1.25	0.31
62	14012.00	90.70	252.60	12301.13	-554.19	-1727.92	1814.05	2.33	1.94	1.29
63	14043.00	91.90	252.40	12300.43	-563.51	-1757.48	1845.04	3.92	3.87	-0.65
64	14075.00	92.10	252.80	12299.31	-573.08	-1787.99	1877.01	1.40	0.62	1.25
65	14107.00	92.80	252.70	12297.94	-582.56	-1818.52	1908.98	2.21	2.19	-0.31
66	14139.00	92.80	253.30	12296.38	-591.90	-1849.09	1940.94	1.87	0.00	1.88

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Vertical Section Calculated Along Azimuth 253.64°
KB Elevation = 3453.00ft GR. Elevation = 3433.00ft

	MD ft	Inc deg	Azi deg	TVD ft	North ft	East ft	V'Sect ft	D'Leg °/100	Build °/100	Turn °/100
67	14170.00	92.60	253.60	12294.92	-600.72	-1878.77	1971.90	1.16	-0.65	0.97
68	14202.00	91.10	254.10	12293.89	-609.62	-1909.49	2003.89	4.94	-4.69	1.56
69	14233.00	90.10	254.50	12293.56	-618.00	-1939.33	2034.88	3.47	-3.23	1.29
70	14265.00	90.50	254.50	12293.40	-626.56	-1970.17	2066.88	1.25	1.25	0.00
71	14297.00	90.10	254.60	12293.23	-635.08	-2001.01	2098.87	1.29	-1.25	0.31
72	14329.00	89.90	254.30	12293.23	-643.66	-2031.84	2130.87	1.13	-0.62	-0.94
73	14361.00	89.40	253.90	12293.42	-652.43	-2062.62	2162.87	2.00	-1.56	-1.25
74	14392.00	89.20	255.50	12293.80	-660.61	-2092.51	2193.86	5.20	-0.65	5.16
75	14423.00	90.50	255.90	12293.88	-668.26	-2122.55	2224.84	4.39	4.19	1.29
76	14455.00	91.50	255.80	12293.33	-676.08	-2153.58	2256.81	3.14	3.13	-0.31
77	14487.00	90.90	255.90	12292.66	-683.90	-2184.60	2288.78	1.90	-1.88	0.31
78	14518.00	90.60	256.00	12292.25	-691.43	-2214.67	2319.75	1.02	-0.97	0.32
79	14550.00	90.20	256.20	12292.03	-699.12	-2245.73	2351.72	1.40	-1.25	0.62
80	14582.00	90.50	256.70	12291.83	-706.61	-2276.84	2383.68	1.82	0.94	1.56
81	14613.00	90.30	256.40	12291.61	-713.82	-2306.99	2414.64	1.16	-0.65	-0.97
82	14645.00	89.90	256.20	12291.56	-721.40	-2338.08	2446.61	1.40	-1.25	-0.62
83	14677.00	90.00	256.50	12291.59	-728.95	-2369.17	2478.57	0.99	0.31	0.94
84	14709.00	90.00	256.40	12291.59	-736.45	-2400.28	2510.53	0.31	0.00	-0.31
85	14741.00	90.10	256.30	12291.56	-744.00	-2431.38	2542.50	0.44	0.31	-0.31
86	14773.00	90.50	256.50	12291.39	-751.53	-2462.48	2574.46	1.40	1.25	0.62
87	14804.00	90.40	256.30	12291.15	-758.82	-2492.61	2605.42	0.72	-0.32	-0.65
88	14835.00	90.60	255.80	12290.88	-766.29	-2522.70	2636.40	1.74	0.65	-1.61
89	14867.00	90.70	255.90	12290.51	-774.11	-2553.72	2668.37	0.44	0.31	0.31
90	14899.00	90.40	256.00	12290.21	-781.88	-2584.77	2700.34	0.99	-0.94	0.31
91	14931.00	90.50	255.70	12289.96	-789.70	-2615.79	2732.32	0.99	0.31	-0.94
92	14963.00	90.70	255.80	12289.62	-797.58	-2646.81	2764.29	0.70	0.62	0.31
93	14995.00	90.60	255.80	12289.26	-805.43	-2677.83	2796.27	0.31	-0.31	0.00
94	15027.00	90.90	256.50	12288.84	-813.09	-2708.89	2828.24	2.38	0.94	2.19
95	15058.00	91.00	256.30	12288.32	-820.38	-2739.02	2859.20	0.72	0.32	-0.65
96	15091.00	89.40	256.10	12288.21	-828.25	-2771.07	2892.16	4.89	-4.85	-0.61
97	15123.00	88.10	256.90	12288.91	-835.72	-2802.17	2924.11	4.77	-4.06	2.50
98	15155.00	89.60	257.70	12289.55	-842.75	-2833.38	2956.04	5.31	4.69	2.50
99	15187.00	90.70	257.20	12289.47	-849.70	-2864.62	2987.97	3.78	3.44	-1.56

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Vertical Section Calculated Along Azimuth 253.64°
KB Elevation = 3453.00ft GR. Elevation = 3433.00ft

	MD	Inc	Azi	TVD	North	East	V'Sect	D'Leg	Build	Turn
	ft	deg	deg	ft	ft	ft	ft	°/100	°/100	°/100
100	15219.00	90.90	256.50	12289.02	-856.98	-2895.78	3019.92	2.27	0.63	-2.19
101	15250.00	91.30	255.50	12288.42	-864.48	-2925.85	3050.88	3.47	1.29	-3.23
102	15283.00	91.50	255.60	12287.62	-872.71	-2957.80	3083.86	0.68	0.61	0.30
103	15314.00	92.60	255.50	12286.51	-880.44	-2987.80	3114.82	3.56	3.55	-0.32
104	15346.00	93.60	254.70	12284.78	-888.66	-3018.67	3146.76	4.00	3.12	-2.50
105	15378.00	92.40	254.70	12283.10	-897.09	-3049.50	3178.71	3.75	-3.75	0.00
106	15409.00	91.60	254.40	12282.02	-905.34	-3079.36	3209.69	2.76	-2.58	-0.97
107	15440.00	91.80	254.80	12281.10	-913.57	-3109.23	3240.67	1.44	0.65	1.29
108	15472.00	91.70	254.40	12280.12	-922.07	-3140.07	3272.65	1.29	-0.31	-1.25
109	15504.00	91.80	254.60	12279.15	-930.61	-3170.89	3304.63	0.70	0.31	0.62
110	15536.00	91.70	254.60	12278.17	-939.11	-3201.73	3336.61	0.31	-0.31	0.00
111	15567.00	91.50	254.90	12277.30	-947.26	-3231.62	3367.59	1.16	-0.65	0.97
112	15599.00	91.00	256.30	12276.61	-955.22	-3262.61	3399.57	4.64	-1.56	4.37
113	15631.00	91.10	255.30	12276.02	-963.06	-3293.63	3431.54	3.14	0.31	-3.13
114	15663.00	91.20	254.70	12275.38	-971.34	-3324.53	3463.52	1.90	0.31	-1.87
115	15695.00	91.20	255.10	12274.71	-979.68	-3355.42	3495.51	1.25	0.00	1.25
116	15726.00	91.20	255.00	12274.06	-987.67	-3385.36	3526.49	0.32	0.00	-0.32
117	15758.00	91.30	254.40	12273.36	-996.12	-3416.22	3558.48	1.90	0.31	-1.88
118	15789.00	91.40	254.70	12272.63	-1004.37	-3446.09	3589.47	1.02	0.32	0.97
119	15821.00	90.80	253.70	12272.02	-1013.08	-3476.88	3621.46	3.64	-1.87	-3.12
120	15853.00	90.50	252.60	12271.65	-1022.36	-3507.50	3653.45	3.56	-0.94	-3.44
121	15885.00	90.70	252.70	12271.32	-1031.90	-3538.04	3685.45	0.70	0.62	0.31
122	15917.00	90.70	252.80	12270.93	-1041.39	-3568.60	3717.44	0.31	0.00	0.31
123	15979.00	89.60	254.80	12270.76	-1058.69	-3628.14	3779.44	3.68	-1.77	3.23
124	16012.00	89.70	255.30	12270.97	-1067.20	-3660.02	3812.43	1.55	0.30	1.52
125	16043.00	90.10	255.00	12271.02	-1075.14	-3689.98	3843.42	1.61	1.29	-0.97
126	16076.00	89.60	254.90	12271.11	-1083.71	-3721.85	3876.41	1.55	-1.52	-0.30
127	16107.00	89.60	255.00	12271.32	-1091.76	-3751.79	3907.40	0.32	0.00	0.32
128	16139.00	90.20	255.10	12271.38	-1100.02	-3782.70	3939.39	1.90	1.88	0.31
129	16171.00	89.70	255.00	12271.41	-1108.27	-3813.62	3971.38	1.59	-1.56	-0.31
130	16203.00	89.70	254.90	12271.57	-1116.58	-3844.52	4003.37	0.31	0.00	-0.31
131	16234.00	90.30	255.10	12271.57	-1124.60	-3874.46	4034.36	2.04	1.94	0.65
132	16266.00	90.60	254.90	12271.32	-1132.89	-3905.37	4066.35	1.13	0.94	-0.62
133	16298.00	91.60	255.50	12270.71	-1141.06	-3936.31	4098.33	3.64	3.12	1.87

Computalog Drilling Services

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Vertical Section Calculated Along Azimuth 253.64°
KB Elevation = 3453.00ft GR. Elevation = 3433.00ft

	MD ft	Inc deg	Azi deg	TVD ft	North ft	East ft	V'Sect ft	D'Leg °/100	Build °/100	Turn °/100
134	16330.00	91.50	255.10	12269.84	-1149.18	-3967.25	4130.31	1.29	-0.31	-1.25
135	16361.00	91.50	255.10	12269.03	-1157.14	-3997.19	4161.29	0.00	0.00	0.00
136	16393.00	90.90	254.60	12268.36	-1165.51	-4028.07	4193.27	2.44	-1.87	-1.56
137	16425.00	90.60	254.00	12267.94	-1174.16	-4058.88	4225.27	2.10	-0.94	-1.87
138	16457.00	90.00	254.30	12267.77	-1182.90	-4089.66	4257.27	2.10	-1.88	0.94
139	16489.00	89.70	253.80	12267.86	-1191.70	-4120.43	4289.26	1.82	-0.94	-1.56
140	16521.00	89.90	253.60	12267.97	-1200.68	-4151.14	4321.26	0.88	0.62	-0.63
141	16553.00	89.10	253.20	12268.25	-1209.82	-4181.81	4353.26	2.80	-2.50	-1.25
142	16585.00	88.70	253.30	12268.86	-1219.04	-4212.44	4385.26	1.29	-1.25	0.31
143	16616.00	88.30	253.20	12269.68	-1227.97	-4242.12	4416.24	1.33	-1.29	-0.32
144	16648.00	87.70	253.00	12270.79	-1237.27	-4272.72	4448.22	1.98	-1.88	-0.63
145	16679.00	87.70	252.30	12272.04	-1246.50	-4302.28	4479.19	2.26	0.00	-2.26
146	16711.00	88.20	252.60	12273.18	-1256.15	-4332.77	4511.17	1.82	1.56	0.94
147	16742.00	89.10	252.10	12273.91	-1265.54	-4362.31	4542.15	3.32	2.90	-1.61
148	16774.00	88.60	252.20	12274.55	-1275.35	-4392.76	4574.13	1.59	-1.56	0.31
149	16805.00	89.20	252.10	12275.15	-1284.85	-4422.26	4605.12	1.96	1.94	-0.32
150	16838.00	89.10	252.20	12275.64	-1294.97	-4453.67	4638.10	0.43	-0.30	0.30
151	16870.00	89.50	252.10	12276.03	-1304.77	-4484.13	4670.09	1.29	1.25	-0.31
152	16902.00	89.90	252.10	12276.20	-1314.61	-4514.58	4702.07	1.25	1.25	0.00
153	16934.00	89.70	251.70	12276.31	-1324.55	-4544.99	4734.06	1.40	-0.62	-1.25
154	16966.00	89.40	251.50	12276.56	-1334.65	-4575.36	4766.04	1.13	-0.94	-0.62
155	16993.00	89.38	249.41	12276.85	-1343.68	-4600.80	4792.99	7.74	-0.07	-7.74
156	17026.00	90.50	249.66	12276.88	-1355.22	-4631.71	4825.91	3.48	3.39	0.76
157	17057.00	90.13	249.41	12276.71	-1366.06	-4660.76	4856.83	1.44	-1.19	-0.81
158	17090.00	90.25	249.78	12276.60	-1377.56	-4691.69	4889.75	1.18	0.36	1.12
159	17122.00	89.81	249.91	12276.58	-1388.59	-4721.73	4921.67	1.43	-1.38	0.41
160	17153.00	89.13	249.16	12276.87	-1399.43	-4750.77	4952.59	3.27	-2.19	-2.42
161	17185.00	89.19	250.28	12277.34	-1410.52	-4780.78	4984.51	3.50	0.19	3.50
162	17216.00	88.56	251.41	12277.95	-1420.69	-4810.06	5015.47	4.17	-2.03	3.65
163	17248.00	88.38	252.16	12278.80	-1430.69	-4840.44	5047.44	2.41	-0.56	2.34
164	17280.00	87.88	251.66	12279.85	-1440.62	-4870.85	5079.41	2.21	-1.56	-1.56
165	17312.00	88.13	253.28	12280.96	-1450.25	-4901.34	5111.38	5.12	0.78	5.06
166	17343.00	90.81	254.41	12281.25	-1458.88	-4931.11	5142.38	9.38	8.65	3.65

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Vertical Section Calculated Along Azimuth 253.64°
KB Elevation = 3453.00ft GR. Elevation = 3433.00ft

	MD	Inc	Azi	TVD	North	East	V'Sect	D'Leg	Build	Turn
	ft	deg	deg	ft	ft	ft	ft	°/100	°/100	°/100
167	17375.00	93.25	255.41	12280.12	-1467.20	-4961.99	5174.35	8.24	7.63	3.13
168	17406.00	92.06	254.91	12278.68	-1475.13	-4991.92	5205.30	4.16	-3.84	-1.61
169	17438.00	89.19	253.91	12278.33	-1483.73	-5022.74	5237.29	9.50	-8.97	-3.12
170	17470.00	89.94	254.91	12278.57	-1492.33	-5053.56	5269.29	3.91	2.34	3.12
171	17503.00	90.94	255.53	12278.32	-1500.75	-5085.46	5302.28	3.57	3.03	1.88
172	17535.00	89.63	255.16	12278.16	-1508.84	-5116.42	5334.26	4.25	-4.09	-1.16
173	17566.00	89.75	255.41	12278.33	-1516.72	-5146.40	5365.25	0.89	0.39	0.81
174	17597.00	89.63	255.03	12278.50	-1524.63	-5176.38	5396.24	1.29	-0.39	-1.23
175	17628.00	88.19	254.91	12279.09	-1532.66	-5206.31	5427.22	4.66	-4.65	-0.39
176	17660.00	87.69	254.53	12280.24	-1541.09	-5237.16	5459.19	1.96	-1.56	-1.19
177	17692.00	86.56	256.03	12281.84	-1549.21	-5268.07	5491.14	5.86	-3.53	4.69
178	17723.00	86.06	255.78	12283.84	-1556.75	-5298.07	5522.05	1.80	-1.61	-0.81
179	17755.00	85.81	255.03	12286.10	-1564.79	-5328.96	5553.95	2.46	-0.78	-2.34
180	17787.00	86.50	254.78	12288.25	-1573.10	-5359.79	5585.87	2.29	2.16	-0.78
181	17819.00	87.63	254.53	12289.89	-1581.56	-5390.61	5617.83	3.82	3.53	-0.78
182	17851.00	87.94	254.66	12291.13	-1590.05	-5421.44	5649.80	1.05	0.97	0.41
183	17882.00	88.38	254.91	12292.12	-1598.19	-5451.33	5680.78	1.63	1.42	0.81
184	17914.00	88.19	254.53	12293.08	-1606.61	-5482.19	5712.76	1.33	-0.59	-1.19
185	17946.00	87.63	254.28	12294.25	-1615.21	-5512.99	5744.73	1.92	-1.75	-0.78
186	17978.00	87.88	253.91	12295.50	-1623.97	-5543.74	5776.71	1.39	0.78	-1.16
187	18009.00	87.63	253.03	12296.71	-1632.79	-5573.44	5807.68	2.95	-0.81	-2.84
188	18041.00	87.69	252.78	12298.02	-1642.19	-5604.00	5839.65	0.80	0.19	-0.78
189	18073.00	87.69	252.41	12299.31	-1651.75	-5634.51	5871.62	1.16	0.00	-1.16
190	18104.00	87.63	252.78	12300.58	-1661.02	-5664.06	5902.59	1.21	-0.19	1.19
191	18136.00	87.38	252.03	12301.97	-1670.68	-5694.54	5934.55	2.47	-0.78	-2.34
192	18168.00	87.00	252.28	12303.54	-1680.47	-5724.96	5966.50	1.42	-1.19	0.78
193	18201.00	87.06	253.28	12305.25	-1690.23	-5756.44	5999.45	3.03	0.18	3.03
194	18232.00	86.94	252.53	12306.87	-1699.33	-5786.03	6030.41	2.45	-0.39	-2.42
195	18265.00	87.19	253.78	12308.56	-1708.88	-5817.57	6063.36	3.86	0.76	3.79
196	18293.00	87.56	254.03	12309.84	-1716.63	-5844.44	6091.33	1.59	1.32	0.89

Bottom Hole Closure 6091.33ft Along Azimuth 253.63°