



EOG Resources, Inc.
4000 North Big Spring, Suite 500
Midland, TX 79705
(915) 686-3600

August 29, 2011

State of New Mexico
Oil Conservation Division
811 S. First St.
Artesia, New Mexico 88210

Ready Date 8/15/11
Conf. Ends 11/15/11

Re: Confidentiality Request
Sand tank 18 Fed Com 5H

Enclosed please find logs and completion papers for our Sand Tank 18 Fed Com 5H.
EOG Resources, Inc. respectfully requests confidentiality for the logs and completion papers on this well.

Thank you for your consideration of this request.

Sincerely,

EOG Resources, Inc.

A handwritten signature in black ink, appearing to read "Stan Wagner", written over a horizontal line.

Stan Wagner
Regulatory Analyst
432.686.3689



UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD-ARTESIA

FORM APPROVED
OMB NO. 1004-0137
Expires July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well ☒ Oil Well ☐ Gas Well ☐ Dry ☐ Other						5. Lease Serial No. LC063621a (SL) NM063472 (BHL)			
b. Type of Completion: ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr. Other _____						6. If Indian, Allottee or Tribe Name			
2. Name of Operator EOG Resources Inc.						7. Unit or CA Agreement Name and No.			
3. Address P.O. Box 2267 Midland, Texas 79702				3a. Phone No. (include area code) 432-686-3689		8. Lease Name and Well No. Sand Tank 18 Fed Com 5H			
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At surface 530' FSL & 2310' FEL, U/L O, Sec 18, T18S, R30E At top prod interval reported below At total depth 468' FSL & 1951' FWL, U/L N, Sec 17						9. API Well No. 30-015-38959			
14. Date Spudded 6/15/11		15. Date T.D. Reached 7/13/11		16. Date Completed ☐ D & A ☒ Ready to Prod. 8/15/11		10. Field and Pool, or Exploratory Sand Tank; Bone Spring			
18. Total Depth: MD TVD 12433 8169		19. Plug Back T.D.: MD TVD 12433		20. Depth Bridge Plug Set: MD TVD		11. Sec., T., R., M., or Block and Survey or Area Sec 18, T18S, R30E			
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) CND, Lat.				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 Skis & Type of Cement	Slurry Vol (BBL)	Cement Top*	Amount Cured
14-3/4	11-3/4	42		327		475 C		surface	
11	8-5/8	32		3317		950 C		surface	
7-7/8	5-1/2	17		12433		1900 H		surface	
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	7377	7302							
25. Producing Intervals					26. Perforation Record				
Formation		Top	Bottom	Perforated Interval		Size	No Holes	Perf Status	
A) Bone Spring		7080		8490 - 12370		0.57	222	Producing	
B)									
C)									
D)									
27. Acid, Fracture, Treatment, Cement Squeeze, Etc									
Depth Interval		Amount and Type of Material							
8490 - 12370		Frac w/ 39.7 Mgals 7.5% HCl acid, 730 Mgals gel, 1178 Mlbs 20/40 sand, 296 Mlbs 20/40 CRC sand, 913.8 Mgals load.							
RECLAMATION DUE 2-15-12									
28. Production - Interval A									
Date First Produced 8/15/11	Test Date 8/27/11	Hours Tested 24	Test Production →	Oil BBL 259	Gas MCF 219	Water BBL 217	Oil Gravity Corr API 39.2	Gas Gravity	Production Method Pumping
Choke Size 8/64	Tbg Press. Flwg. 380	Csg. Press 170	24 Hr. →	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio 845	Well Status POW	
28a Production-Interval B									
Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr API	Gas Gravity	Production Method
									SEP 12 2011
Choke Size	Tbg Press Flwg. SI	Csg Press	24 Hr. →	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio	Well Status	BUREAU OF LAND MANAGEMENT CARLSBAD FIELD OFFICE

(See instructions and spaces for additional data on page 2)

30-015-38959

PathFinder Energy Services, Inc.

Survey Report

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Tie-in Date: 06/22/2011

Date Completed: 07/13/2011

EOG RESOURCES, INC.

SAND TANK 18 FED COM #5H OWB

EDDY COUNTY, NM

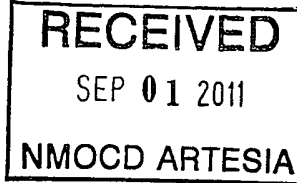
Rig:McVAY 4

PathFinder Office Supervisor: FRANCISCO SINISTERRA

PathFinder Field Engineers: F.KNAAK

J.PATTERSON

Survey Calculations by RX5 V6.03E using Minimum Curvature



Survey Horiz. Reference:WELLHEAD

Ref Coordinates: LAT:32.44.29.7798 N LON:104.0.35.0087 W

GRID Reference:NAD27 new mexico east Transverse Mercator

Ref GRID Coord: X: 599501.4000 Y: 633659.0000

North Aligned To:GRID NORTH

Total Magnetic Correction: 7.64°EAST TO GRID

Vertical Section Plane: 91.18

Survey Vert. Reference: 19.00' Kelly Bushing To Ground

Altitude:3511.00' Ground To MSL

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft) (ft)		Closure Dist Dir (ft) (deg)		DLS (dg/100ft)	TEMP (F)
THE FOLLOWING ARE MULTISHOT GYRO SURVEYS.											
0.00	0.00	0.00	0.00	0.00	0.00	0.00 S	0.00 E	0.00@	141.92	0.00	0.00
100.00	0.25	296.46	100.00	100.00	-0.20	0.09 N	0.19 W	0.22@	296.07	0.25	0.00
200.00	0.25	8.15	200.00	100.00	-0.37	0.41 N	0.36 W	0.54@	318.75	0.29	0.00
300.00	0.25	305.84	300.00	100.00	-0.52	0.75 N	0.50 W	0.90@	326.17	0.26	0.00
400.00	0.50	340.53	400.00	100.00	-0.85	1.29 N	0.83 W	1.53@	327.38	0.33	0.00
500.00	0.75	29.21	500.00	100.00	-0.70	2.27 N	0.65 W	2.36@	344.00	0.56	0.00
600.00	0.50	22.90	599.99	100.00	-0.23	3.25 N	0.16 W	3.25@	357.13	0.26	0.00
700.00	0.75	7.59	699.98	100.00	0.01	4.30 N	0.09 E	4.30@	1.25	0.30	0.00
800.00	0.75	17.28	799.97	100.00	0.26	5.57 N	0.37 E	5.58@	3.85	0.13	0.00
900.00	0.75	5.97	899.97	100.00	0.50	6.85 N	0.64 E	6.88@	5.31	0.15	0.00
1000.00	0.75	37.10	999.96	100.00	0.93	8.02 N	1.10 E	8.09@	7.81	0.40	0.00
1100.00	1.00	42.78	1099.95	100.00	1.90	9.18 N	2.09 E	9.42@	12.81	0.26	0.00
1200.00	1.00	46.47	1199.93	100.00	3.10	10.42 N	3.31 E	10.94@	17.63	0.06	0.00
1300.00	1.25	45.16	1299.91	100.00	4.47	11.79 N	4.72 E	12.70@	21.81	0.25	0.00
1400.00	1.25	45.85	1399.89	100.00	6.00	13.32 N	6.27 E	14.73@	25.22	0.02	0.00
1500.00	1.25	52.54	1499.86	100.00	7.62	14.75 N	7.92 E	16.74@	28.25	0.15	0.00
1600.00	1.50	46.22	1599.84	100.00	9.40	16.31 N	9.73 E	19.00@	30.82	0.29	0.00
1700.00	1.25	57.91	1699.81	100.00	11.23	17.80 N	11.60 E	21.25@	33.10	0.37	0.00
1800.00	1.25	61.60	1799.78	100.00	13.09	18.90 N	13.49 E	23.22@	35.51	0.08	0.00
1900.00	1.25	55.29	1899.76	100.00	14.93	20.04 N	15.34 E	25.24@	37.44	0.14	0.00
2000.00	1.25	53.08	1999.74	100.00	16.67	21.31 N	17.11 E	27.33@	38.76	0.05	0.00
2100.00	1.25	36.86	2099.71	100.00	18.16	22.84 N	18.64 E	29.48@	39.21	0.35	0.00
2200.00	0.75	58.66	2199.70	100.00	19.35	24.06 N	19.85 E	31.19@	39.53	0.62	0.00
2300.00	0.75	51.45	2299.69	100.00	20.41	24.80 N	20.92 E	32.45@	40.15	0.09	0.00
2400.00	1.00	43.23	2399.68	100.00	21.49	25.85 N	22.03 E	33.96@	40.44	0.28	0.00

PathFinder Energy Services, Inc.

Survey Report

EOG RESOURCES, INC.
SAND TANK 18 FED COM #5H OWB
EDDY COUNTY, NM
RIG:McVAY 4

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Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft) (ft)		Closure Dist Dir (ft) (deg)	DLS (dg/100ft)	TEMP (F)
2500.00	0.75	68.02	2499.66	100.00	22.68	26.73 N	23.24 E	35.42@ 41.00	0.45	0.00
2600.00	0.75	70.81	2599.66	100.00	23.90	27.19 N	24.46 E	36.57@ 41.98	0.04	0.00
2700.00	1.25	78.60	2699.64	100.00	25.57	27.62 N	26.15 E	38.03@ 43.43	0.52	0.00
2800.00	1.25	80.39	2799.62	100.00	27.71	28.02 N	28.29 E	39.82@ 45.28	0.04	0.00
2900.00	1.00	80.18	2899.60	100.00	29.64	28.35 N	30.23 E	41.44@ 46.84	0.25	0.00
3000.00	1.25	86.91	2999.58	100.00	31.58	28.56 N	32.18 E	43.02@ 48.41	0.28	0.00
3100.00	1.00	86.70	3099.56	100.00	33.54	28.66 N	34.14 E	44.58@ 49.98	0.25	0.00
3200.00	1.25	84.49	3199.54	100.00	35.49	28.82 N	36.09 E	46.19@ 51.40	0.25	0.00
** TIE IN TO MULTISHOT GYRO SURVEY @ 3250' MD.										
3250.00	1.00	82.28	3249.53	50.00	36.47	28.93 N	37.07 E	47.02@ 52.03	0.51	0.00
THE FOLLOWING ARE PATHFINDER MWD SURVEYS.										
3374.00	1.49	70.22	3373.50	124.00	39.04	29.62 N	39.66 E	49.50@ 53.24	0.45	104.64
3438.00	0.53	67.23	3437.49	64.00	40.09	30.02 N	40.72 E	50.58@ 53.60	1.50	108.25
3501.00	0.26	79.36	3500.49	63.00	40.49	30.16 N	41.12 E	51.00@ 53.75	0.45	108.25
3597.00	0.18	116.01	3596.49	96.00	40.84	30.13 N	41.47 E	51.26@ 54.00	0.16	108.25
3692.00	0.18	136.14	3691.49	95.00	41.09	29.96 N	41.71 E	51.35@ 54.31	0.07	108.25
3787.00	0.26	134.91	3786.49	95.00	41.35	29.70 N	41.97 E	51.41@ 54.72	0.08	108.25
3882.00	0.26	161.01	3881.49	95.00	41.58	29.34 N	42.19 E	51.39@ 55.18	0.12	108.25
3977.00	0.26	154.68	3976.48	95.00	41.75	28.94 N	42.35 E	51.30@ 55.65	0.03	108.25
4073.00	0.26	194.94	4072.48	96.00	41.79	28.54 N	42.39 E	51.10@ 56.05	0.19	108.25
4168.00	0.26	206.27	4167.48	95.00	41.65	28.13 N	42.24 E	50.75@ 56.33	0.05	108.25
4263.00	0.35	278.34	4262.48	95.00	41.27	27.98 N	41.86 E	50.35@ 56.24	0.39	111.87
4361.00	0.44	300.84	4360.48	98.00	40.65	28.22 N	41.24 E	49.97@ 55.62	0.18	108.25
4457.00	0.62	328.70	4456.48	96.00	40.05	28.85 N	40.65 E	49.85@ 54.63	0.32	111.87
4552.00	0.88	342.33	4551.47	95.00	39.54	29.99 N	40.16 E	50.12@ 53.25	0.33	111.87
4647.00	0.79	325.36	4646.46	95.00	38.92	31.22 N	39.57 E	50.40@ 51.73	0.28	111.87
4742.00	0.88	321.15	4741.45	95.00	38.06	32.33 N	38.74 E	50.46@ 50.16	0.12	115.48
4838.00	0.88	330.20	4837.44	96.00	37.21	33.54 N	37.91 E	50.62@ 48.50	0.14	115.48

PathFinder Energy Services, Inc.

Survey Report

EOG RESOURCES, INC.
SAND TANK 18 FED COM #5H OWB
EDDY COUNTY, NM
RIG:McVAY 4

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Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft) (ft)		Closure Dist Dir (ft) (deg)		DLS (dg/100ft)	TEMP (F)
4933.00	0.97	333.45	4932.42	95.00	36.46	34.89 N	37.19 E	50.99@	46.82	0.11	119.09
5028.00	1.14	324.84	5027.41	95.00	35.53	36.39 N	36.28 E	51.39@	44.92	0.24	119.09
5091.00	0.44	280.80	5090.40	63.00	34.92	36.94 N	35.69 E	51.36@	44.01	1.40	115.48
5187.00	0.44	253.65	5186.40	96.00	34.20	36.91 N	34.97 E	50.84@	43.46	0.21	119.09
5282.00	0.79	270.26	5281.39	95.00	33.20	36.81 N	33.96 E	50.08@	42.70	0.41	119.09
5377.00	1.06	265.42	5376.38	95.00	31.67	36.74 N	32.43 E	49.01@	41.44	0.30	119.09
5472.00	0.62	207.77	5471.37	95.00	30.57	36.22 N	31.32 E	47.88@	40.85	0.94	119.09
5568.00	0.88	233.87	5567.36	96.00	29.75	35.32 N	30.48 E	46.66@	40.79	0.44	122.71
5663.00	1.14	256.37	5662.35	95.00	28.25	34.67 N	28.97 E	45.18@	39.89	0.49	122.71
5758.00	1.14	257.07	5757.33	95.00	26.42	34.24 N	27.13 E	43.68@	38.40	0.01	122.71
5854.00	0.79	283.18	5853.32	96.00	24.85	34.17 N	25.56 E	42.67@	36.79	0.58	122.71
5949.00	1.49	306.64	5948.30	95.00	23.20	35.06 N	23.93 E	42.45@	34.32	0.87	115.48
6044.00	0.44	349.18	6043.28	95.00	22.12	36.15 N	22.87 E	42.78@	32.32	1.27	119.09
6139.00	1.06	315.96	6138.28	95.00	21.42	37.14 N	22.19 E	43.27@	30.86	0.77	119.09
6235.00	0.88	350.06	6234.26	96.00	20.65	38.51 N	21.45 E	44.08@	29.11	0.62	122.71
6298.00	0.97	4.74	6297.25	63.00	20.59	39.52 N	21.41 E	44.94@	28.45	0.40	122.71
6394.00	1.14	235.89	6393.25	96.00	19.86	39.79 N	20.68 E	44.85@	27.47	1.98	122.71
6488.00	1.58	206.18	6487.22	94.00	18.55	38.10 N	19.34 E	42.73@	26.91	0.87	122.71
6584.00	1.32	185.35	6583.19	96.00	17.91	35.81 N	18.65 E	40.38@	27.51	0.61	122.71
6678.00	1.49	208.29	6677.16	94.00	17.27	33.66 N	17.97 E	38.16@	28.10	0.62	122.71
6740.00	1.49	222.88	6739.14	62.00	16.37	32.36 N	17.04 E	36.57@	27.77	0.61	126.32
6833.00	1.58	185.97	6832.11	93.00	15.46	30.20 N	16.08 E	34.22@	28.04	1.05	126.32
6926.00	1.32	204.08	6925.08	93.00	14.93	27.95 N	15.51 E	31.96@	29.04	0.56	126.32
7020.00	1.76	229.65	7019.05	94.00	13.43	26.02 N	13.97 E	29.54@	28.23	0.86	126.32
7113.00	0.88	158.64	7112.03	93.00	12.64	24.43 N	13.14 E	27.74@	28.28	1.82	126.32
7206.00	2.46	91.93	7204.99	93.00	14.91	23.70 N	15.40 E	28.26@	33.01	2.43	129.94
7268.00	1.67	84.10	7266.95	62.00	17.13	23.75 N	17.63 E	29.58@	36.58	1.35	129.94
7317.00	1.23	85.60	7315.94	49.00	18.37	23.86 N	18.86 E	30.42@	38.32	0.90	126.32

PathFinder Energy Services, Inc.

Survey Report

EOG RESOURCES, INC.
SAND TANK 18 FED COM #5H OWB
EDDY COUNTY, NM
RIG:McVAY 4

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Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft) (ft)		Closure Dist Dir (ft) (deg)		DLS (dg/100ft)	TEMP (F)
7411.00	0.62	98.99	7409.92	94.00	19.87	23.86 N	20.37 E	31.37@	40.49	0.68	122.71
7504.00	0.18	241.49	7502.92	93.00	20.25	23.71 N	20.74 E	31.50@	41.17	0.83	126.32
7550.00	0.62	86.95	7548.92	46.00	20.43	23.69 N	20.92 E	31.61@	41.45	1.71	119.09
7581.00	2.81	83.38	7579.91	31.00	21.35	23.79 N	21.85 E	32.30@	42.56	7.07	119.09
7612.00	5.89	86.58	7610.81	31.00	23.69	23.97 N	24.19 E	34.05@	45.26	9.96	119.09
7643.00	10.11	86.94	7641.50	31.00	27.99	24.21 N	28.50 E	37.39@	49.65	13.61	119.09
7675.00	14.42	86.43	7672.77	32.00	34.77	24.61 N	35.28 E	43.01@	55.10	13.47	122.71
7706.00	18.38	85.61	7702.50	31.00	43.48	25.22 N	44.01 E	50.72@	60.18	12.80	122.71
7737.00	21.72	86.60	7731.62	31.00	54.07	25.94 N	54.61 E	60.46@	64.59	10.83	122.71
7769.00	24.97	90.51	7760.99	32.00	66.73	26.23 N	67.28 E	72.21@	68.70	11.25	122.71
7800.00	28.31	92.85	7788.70	31.00	80.62	25.80 N	81.17 E	85.17@	72.36	11.29	122.71
7831.00	32.54	93.43	7815.43	31.00	96.31	24.94 N	96.84 E	100.00@	75.56	13.68	122.71
7863.00	35.79	91.84	7841.90	32.00	114.27	24.12 N	114.79 E	117.30@	78.13	10.53	122.71
7894.00	37.90	90.44	7866.71	31.00	132.85	23.76 N	133.37 E	135.47@	79.90	7.32	122.71
7925.00	39.75	89.14	7890.86	31.00	152.28	23.84 N	152.81 E	154.65@	81.13	6.52	122.71
7956.00	42.74	87.85	7914.16	31.00	172.69	24.38 N	173.23 E	174.94@	81.99	10.03	122.71
7987.00	44.23	87.56	7936.66	31.00	193.99	25.23 N	194.55 E	196.18@	82.61	4.85	122.71
8018.00	46.43	87.22	7958.45	31.00	215.98	26.24 N	216.57 E	218.15@	83.09	7.14	122.71
8049.00	49.77	87.24	7979.15	31.00	239.00	27.35 N	239.61 E	241.17@	83.49	10.78	122.71
8080.00	52.58	88.57	7998.58	31.00	263.11	28.23 N	263.74 E	265.25@	83.89	9.66	122.71
8111.00	56.01	90.70	8016.67	31.00	288.27	28.38 N	288.91 E	290.30@	84.39	12.39	122.71
8142.00	59.53	91.04	8033.20	31.00	314.48	27.98 N	315.13 E	316.37@	84.93	11.39	122.71
8173.00	63.58	91.11	8047.97	31.00	341.74	27.47 N	342.37 E	343.47@	85.41	13.07	119.09
8204.00	67.18	91.23	8060.88	31.00	369.91	26.89 N	370.55 E	371.52@	85.85	11.62	122.71
8235.00	71.23	91.19	8071.88	31.00	398.89	26.28 N	399.51 E	400.38@	86.24	13.06	122.71
8267.00	74.30	92.09	8081.36	32.00	429.45	25.41 N	430.06 E	430.81@	86.62	9.96	122.71
8298.00	77.91	92.48	8088.81	31.00	459.53	24.21 N	460.12 E	460.76@	86.99	11.71	122.71
8330.00	80.90	92.90	8094.69	32.00	490.97	22.73 N	491.54 E	492.07@	87.35	9.43	122.71

PathFinder Energy Services, Inc.

Survey Report

EOG RESOURCES, INC.
SAND TANK 18 FED COM #5H OWB
EDDY COUNTY, NM
RIG:McVAY 4

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Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft) (ft)		Closure Dist Dir (ft) (deg)		DLS (dg/100ft)	TEMP (F)
8361.00	84.24	93.80	8098.70	31.00	521.68	20.93 N	522.22 E	522.64@	87.70	11.15	122.71
8392.00	86.26	94.10	8101.26	31.00	552.54	18.80 N	553.04 E	553.36@	88.05	6.59	126.32
8487.00	88.72	93.14	8105.42	95.00	647.35	12.81 N	647.75 E	647.88@	88.87	2.78	126.32
8549.00	90.92	92.78	8105.62	62.00	709.32	9.61 N	709.67 E	709.73@	89.22	3.60	126.32
8612.00	89.25	92.95	8105.52	63.00	772.29	6.46 N	772.58 E	772.61@	89.52	2.66	129.94
8706.00	89.25	92.72	8106.76	94.00	866.24	1.81 N	866.46 E	866.46@	89.88	0.24	129.94
8799.00	89.25	92.47	8107.97	93.00	959.20	2.40 S	959.36 E	959.36@	90.14	0.27	133.55
8892.00	89.34	92.37	8109.12	93.00	1052.17	6.32 S	1052.27 E	1052.29@	90.34	0.14	133.55
8986.00	89.60	92.12	8109.99	94.00	1146.15	10.00 S	1146.19 E	1146.24@	90.50	0.38	133.55
9080.00	89.78	92.50	8110.49	94.00	1240.13	13.79 S	1240.11 E	1240.19@	90.64	0.45	133.55
9173.00	88.90	91.65	8111.57	93.00	1333.12	17.16 S	1333.04 E	1333.16@	90.74	1.32	133.55
9267.00	89.16	91.61	8113.16	94.00	1427.10	19.83 S	1426.99 E	1427.13@	90.80	0.28	137.17
9360.00	89.43	91.81	8114.30	93.00	1520.09	22.61 S	1519.94 E	1520.11@	90.85	0.36	137.17
9454.00	89.25	90.80	8115.38	94.00	1614.08	24.75 S	1613.91 E	1614.10@	90.88	1.09	137.17
9548.00	89.78	90.73	8116.18	94.00	1708.07	26.00 S	1707.90 E	1708.10@	90.87	0.57	137.17
9642.00	90.40	90.71	8116.03	94.00	1802.07	27.19 S	1801.89 E	1802.10@	90.86	0.66	137.17
9736.00	89.69	90.74	8115.96	94.00	1896.07	28.38 S	1895.88 E	1896.10@	90.86	0.76	137.17
9830.00	89.43	90.43	8116.68	94.00	1990.06	29.34 S	1989.88 E	1990.09@	90.84	0.43	137.17
9922.00	89.96	90.23	8117.17	92.00	2082.05	29.86 S	2081.87 E	2082.09@	90.82	0.62	137.17
10014.00	88.90	90.59	8118.09	92.00	2174.03	30.52 S	2173.86 E	2174.08@	90.80	1.22	133.55
10108.00	88.90	90.00	8119.89	94.00	2268.00	31.01 S	2267.85 E	2268.06@	90.78	0.63	137.17
10201.00	90.13	90.62	8120.68	93.00	2360.99	31.51 S	2360.84 E	2361.05@	90.76	1.48	137.17
10295.00	89.34	92.35	8121.11	94.00	2454.98	33.95 S	2454.80 E	2455.04@	90.79	2.02	137.17
10389.00	89.16	90.94	8122.34	94.00	2548.97	36.64 S	2548.75 E	2549.02@	90.82	1.51	137.17
10482.00	89.60	90.60	8123.35	93.00	2641.96	37.89 S	2641.74 E	2642.01@	90.82	0.60	140.78
10575.00	89.43	91.60	8124.14	93.00	2734.95	39.68 S	2734.72 E	2735.00@	90.83	1.09	140.78
10668.00	88.64	90.16	8125.70	93.00	2827.94	41.11 S	2827.69 E	2827.99@	90.83	1.77	140.78
10762.00	88.02	88.10	8128.44	94.00	2921.83	39.68 S	2921.63 E	2921.90@	90.78	2.29	140.78

PathFinder Energy Services, Inc.

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10855.00	89.34	91.46	8130.59	93.00	3014.76	39.32 S	3014.59 E	3014.85@	90.75	3.88	140.78
10949.00	89.60	91.74	8131.46	94.00	3108.76	41.95 S	3108.55 E	3108.83@	90.77	0.41	140.78
11043.00	87.76	91.77	8133.62	94.00	3202.72	44.83 S	3202.48 E	3202.79@	90.80	1.96	140.78
11136.00	87.67	92.01	8137.33	93.00	3295.64	47.89 S	3295.35 E	3295.70@	90.83	0.28	144.39
11229.00	88.90	92.37	8140.11	93.00	3388.58	51.44 S	3388.24 E	3388.63@	90.87	1.38	144.39
11322.00	89.34	92.15	8141.54	93.00	3481.56	55.11 S	3481.16 E	3481.60@	90.91	0.53	144.39
11416.00	89.60	92.00	8142.41	94.00	3575.54	58.51 S	3575.09 E	3575.57@	90.94	0.32	144.39
11499.00	90.22	91.94	8142.54	83.00	3658.53	61.37 S	3658.04 E	3658.56@	90.96	0.75	140.78
11595.00	87.32	89.13	8144.60	96.00	3754.48	62.27 S	3754.00 E	3754.51@	90.95	4.21	140.78
11691.00	87.14	88.71	8149.24	96.00	3850.30	60.46 S	3849.87 E	3850.34@	90.90	0.48	144.39
11794.00	87.85	88.98	8153.74	103.00	3953.11	58.38 S	3952.75 E	3953.18@	90.85	0.74	140.78
11890.00	87.23	90.04	8157.86	96.00	4048.98	57.56 S	4048.65 E	4049.06@	90.81	1.28	140.78
11984.00	87.85	90.01	8161.90	94.00	4142.87	57.60 S	4142.57 E	4142.97@	90.80	0.66	144.39
12079.00	87.85	89.81	8165.46	95.00	4237.78	57.46 S	4237.50 E	4237.89@	90.78	0.21	144.39
12171.00	88.99	90.65	8168.00	92.00	4329.73	57.82 S	4329.46 E	4329.85@	90.77	1.54	144.39
12265.00	89.43	90.66	8169.29	94.00	4423.72	58.90 S	4423.45 E	4423.84@	90.76	0.47	144.39
12356.00	90.04	90.83	8169.71	91.00	4514.72	60.08 S	4514.44 E	4514.84@	90.76	0.70	144.39
STRAIGHT LINE PROJECTION TO BIT DEPTH @ 12433'MD.											
12433.00	90.04	90.83	8169.66	77.00	4591.72	61.20 S	4591.43 E	4591.84@	90.76	0.00	0.00

** The survey data at tie-in point was furnished by a recognized survey company and entered as submitted. Survey stations above the tie-in point represent recalculated data by PathFinder Energy Services, Inc. and may reflect minor changes due to rounding differences between survey programs. Only survey stations taken by qualified PathFinder personnel are subject to certification.