

PATHFINDER[®]

A Schlumberger Company

DIRECTIONAL SURVEY REPORT

30 015 38663

XTO ENERGY

NASH UNIT #49H

EDDY COUNTY, NEW MEXICO

RECEIVED

FEB 19 2013

NMOCD ARTESIA

PREPARED BY: JUAN ALCOCER

mw

Pathfinder

6213 WCR, 112
Midland, Texas, 79706-3725, USA
Tel. (432) 687-1647
Fax (432) 687-1544



July 16, 2012

XTO Energy Inc.
200 N. Loraine
Attn: Barbi Woods
Midland, TX 79701

RE: XTO Energy Inc.
Nash Unit #49H
API: 30-015-38663
Eddy County, NM
Rig: Pioneer 33
Field: Nash Draw; Delaware
PES FILE NO.: 12MLD0242

To whom it may concern:

We hereby certify that the enclosed Original Field Survey Data contained in this report represents to the best of our knowledge, a true and accurate survey of the well at the time the survey was run.

DIRECTIONAL SURVEY DATA
1 – Original survey report
2 – Survey report copies

We appreciate the opportunity to work with you and we look forward to your business support. If you have any questions, I can be reached at (432) 687-1647

Sincerely,



JUAN ALCOCER
MWD Coordinator
PathFinder Energy Services

ML:sh

Pathfinder

6213 WCR. 112
Midland, Texas. 79706-3725, USA
Tel. (432) 687-1647
Fax (432) 687-1544



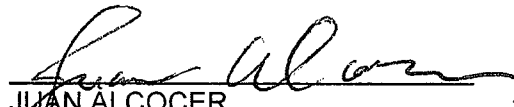
DIRECTIONAL SURVEY COMPANY REPORT:

1. NAME OF SURVEYING COMPANY: PATHFINDER ENERGY SERVICES
2. NAME OF PERSON(S) PERFORMING SURVEY:
A) JOHN WILLIAMS
3. POSITION OF SAID PERSON(S): (A-F) SURVEYORS (FIELD ENGINEERS)
4. DATE(S) ON WHICH SURVEY WAS PERFORMED: 6/22/12 TO 7/10/12
5. STATE IN WHICH SURVEY WAS PERFORMED: NEW MEXICO
6. LOCATION OF WELL: EDDY COUNTY
7. TYPE OF SURVEY(S) PERFORMED: GAMMA-RAY
8. COMPLETE IDENTIFICATION OF WELL:

XTO ENERGY INC.
NASH UNIT #49H
EDDY COUNTY, NM
RIG: PIONEER 33

9. SURVEY CERTIFIED FROM: 6,214 TO 11,664 FEET MEASURED DEPTH.

THIS IS TO VERIFY THAT ATTACHED DOCUMENTS SHOWING THE WELL TO BE
DISPLACED AT 5117.58 FEET ON A BEARING OF 88.89 DEGREES FROM THE
CENTER OF THE ROTARY TABLE AT A PROJECTED BIT DEPTH OF 11,732 FEET,
ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.


JUAN ALCOCER
MWD COORDINATOR

PathFinder Energy Services, Inc.

BHL Report

Page 01/01
Tie-in Date: 06/22/2012
Date Completed: 07/10/2012

XTO ENERGY INC
NASH UNIT #49H
EDDY COUNTY, NM
Rig:PIONEER 33
PathFinder Office Supervisor: JUAN ALCOCER
PathFinder Field Engineers:J. WILLIAMS
K. THURMAN

Survey Horiz. Reference:WELLHEAD
Ref Coordinates: LAT:32.18.38.9508 N LON:103.55.50.8179 W
GRID Reference:NAD27 new mexico east Transverse Mercator
Ref GRID Coord: X: 624366.2000 Y: 477026.3000
North Aligned To:GRID NORTH
Total Magnetic Correction: 7.42°EAST TO GRID
Vertical Section Plane: 89.07
Survey Vert. Reference: 15.00' Kelly Bushing To Ground
Altitude:3001.00' Ground To MSL

Measured Depth	11732.00	(feet)
Inclination	92.24	(deg)
Azimuth	88.27	(deg)
True Vertical Depth	7033.94	(feet)
Vertical Section	5117.55	(feet)
Survey X cord	629482.79	(feet)
Survey Y cord	477125.71	(feet)
Survey Lat	32.31103903 N	(deg)
Survey Lon	103.91422039 W	(deg)
Rectangular Corr. N/S	99.42 N	(feet)
Rectangular Corr. E/W	5116.61 E	(feet)
Closure Distance	5117.58	(feet)
Direction of Closure	88.89	(deg)
Dogleg Severity	0.00	(deg/100ft)

PathFinder Energy Services, Inc.

Survey Report

XTO ENERGY INC
NASH UNIT #49H
EDDY COUNTY, NM
Rig: PIONEER 33
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K. THURMAN

Page 01/07
Tie-in Date: 06/22/2012
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Total Magnetic Correction: 7.42° EAST TO GRID
Vertical Section Plane: 89.07
Survey Vert. Reference: 15.00' Kelly Bushing To Ground
Altitude: 3001.00' Ground To MSL

Survey Calculations by RX5 V6.04A using Minimum Curvature

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)
THE FOLLOWING ARE VAUGHN ENERGY SERVICES GYRO SURVEYS.								
100.00	0.70	50.80	99.99	100.00	0.48	0.38 N 0.48 E	0.61@ 51.12	0.70
200.00	0.23	51.84	199.99	100.00	1.12	0.89 N 1.11 E	1.42@ 51.08	0.48
300.00	0.88	2.91	299.99	100.00	1.33	1.78 N 1.30 E	2.21@ 36.11	0.75
400.00	0.99	332.68	399.97	100.00	1.00	3.31 N 0.94 E	3.44@ 15.90	0.50
500.00	0.81	2.34	499.96	100.00	0.66	4.78 N 0.58 E	4.82@ 6.89	0.49
600.00	1.78	3.62	599.93	100.00	0.82	7.04 N 0.70 E	7.07@ 5.72	0.96
700.00	3.03	355.79	699.84	100.00	0.79	11.22 N 0.61 E	11.24@ 3.10	1.30
800.00	3.52	349.70	799.68	100.00	0.14	16.88 N 0.14 W	16.88@ 359.54	0.60
900.00	4.47	346.71	899.44	100.00	-1.20	23.70 N 1.58 W	23.75@ 356.18	0.98
1000.00	4.50	345.20	999.13	100.00	-2.97	31.29 N 3.48 W	31.48@ 353.65	0.12
1100.00	3.50	341.41	1098.89	100.00	-4.84	37.98 N 5.46 W	38.37@ 351.82	1.04
1200.00	3.03	347.99	1198.72	100.00	-6.27	43.45 N 6.98 W	44.01@ 350.88	0.60
1300.00	1.58	353.69	1298.64	100.00	-6.91	47.40 N 7.68 W	48.02@ 350.80	1.46
1400.00	0.64	4.30	1398.62	100.00	-6.99	49.33 N 7.79 W	49.95@ 351.03	0.96
1500.00	1.21	27.44	1498.61	100.00	-6.44	50.83 N 7.26 W	51.34@ 351.87	0.67
1600.00	1.11	359.41	1598.59	100.00	-5.93	52.73 N 6.79 W	53.17@ 352.67	0.57
1700.00	0.43	5.19	1698.58	100.00	-5.88	54.08 N 6.76 W	54.50@ 352.87	0.69
1800.00	1.15	5.04	1798.57	100.00	-5.74	55.45 N 6.64 W	55.84@ 353.17	0.72
1900.00	0.28	351.25	1898.56	100.00	-5.67	56.69 N 6.59 W	57.07@ 353.37	0.88
2000.00	0.74	348.78	1998.55	100.00	-5.82	57.56 N 6.75 W	57.95@ 353.31	0.46
2100.00	0.13	248.33	2098.55	100.00	-6.04	58.15 N 6.98 W	58.57@ 353.15	0.77
2200.00	0.44	302.00	2198.55	100.00	-6.46	58.31 N 7.41 W	58.78@ 352.76	0.38
2300.00	0.64	1.16	2298.55	100.00	-6.76	59.07 N 7.72 W	59.57@ 352.56	0.56

PathFinder Energy Services, Inc.

Survey Report

XTO ENERGY INC
NASH UNIT #49H
EDDY COUNTY, NM
RIG: PIONEER 33

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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)
2400.00	0.53	313.65	2398.54	100.00	-7.07	59.95 N	8.04 W	60.49@	352.36	0.48
2500.00	0.60	332.48	2498.54	100.00	-7.63	60.74 N	8.62 W	61.34@	351.92	0.20
2600.00	0.53	83.38	2598.53	100.00	-7.41	61.25 N	8.40 W	61.83@	352.19	0.93
2700.00	0.76	122.04	2698.53	100.00	-6.39	60.96 N	7.38 W	61.40@	353.10	0.48
2800.00	1.20	169.67	2798.52	100.00	-5.66	59.58 N	6.63 W	59.95@	353.65	0.89
2900.00	1.41	148.51	2898.49	100.00	-4.87	57.51 N	5.80 W	57.80@	354.24	0.52
3000.00	0.97	143.81	2998.47	100.00	-3.75	55.77 N	4.66 W	55.97@	355.22	0.44
3100.00	0.40	162.13	3098.46	100.00	-3.16	54.75 N	4.05 W	54.90@	355.77	0.61
3200.00	0.96	183.68	3198.45	100.00	-3.13	53.59 N	4.00 W	53.74@	355.73	0.60
3300.00	0.83	210.24	3298.44	100.00	-3.57	52.13 N	4.42 W	52.31@	355.16	0.43
3400.00	0.86	175.22	3398.43	100.00	-3.90	50.75 N	4.72 W	50.97@	354.69	0.51
3500.00	0.91	163.50	3498.42	100.00	-3.63	49.24 N	4.43 W	49.44@	354.85	0.19
3600.00	0.68	129.23	3598.41	100.00	-2.97	48.11 N	3.75 W	48.25@	355.55	0.52
3700.00	0.34	217.14	3698.41	100.00	-2.69	47.50 N	3.46 W	47.62@	355.83	0.75
3800.00	0.93	184.21	3798.40	100.00	-2.95	46.45 N	3.70 W	46.60@	355.45	0.68
3900.00	0.13	146.49	3898.40	100.00	-2.96	45.55 N	3.70 W	45.70@	355.36	0.84
4000.00	0.66	131.99	3998.39	100.00	-2.48	45.07 N	3.21 W	45.18@	355.93	0.54
4100.00	0.07	193.88	4098.39	100.00	-2.07	44.63 N	2.79 W	44.71@	356.42	0.63
4200.00	0.58	161.46	4198.39	100.00	-1.93	44.09 N	2.65 W	44.17@	356.57	0.53
4300.00	0.37	130.48	4298.39	100.00	-1.53	43.40 N	2.24 W	43.46@	357.05	0.33
4400.00	0.45	145.67	4398.38	100.00	-1.08	42.86 N	1.77 W	42.90@	357.63	0.13
4500.00	0.55	226.74	4498.38	100.00	-1.22	42.21 N	1.90 W	42.25@	357.42	0.65
4600.00	0.58	234.01	4598.38	100.00	-1.98	41.58 N	2.66 W	41.67@	356.34	0.08
4700.00	0.31	251.23	4698.37	100.00	-2.65	41.20 N	3.32 W	41.34@	355.39	0.29
4800.00	0.42	254.28	4798.37	100.00	-3.27	41.01 N	3.94 W	41.20@	354.52	0.11
4900.00	0.55	202.51	4898.37	100.00	-3.82	40.47 N	4.48 W	40.72@	353.69	0.44
5000.00	0.64	279.08	4998.36	100.00	-4.56	40.12 N	5.21 W	40.46@	352.60	0.74

PathFinder Energy Services, Inc.

Survey Report

XTO ENERGY INC
NASH UNIT #49H
EDDY COUNTY, NM
RIG:PIONEER 33

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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)
5100.00	0.79	200.16	5098.36	100.00	-5.36	39.56 N	6.01 W	40.02@	351.37	0.92
5200.00	0.95	205.99	5198.35	100.00	-5.99	38.17 N	6.61 W	38.74@	350.18	0.19
5300.00	1.07	202.18	5298.33	100.00	-6.73	36.56 N	7.32 W	37.28@	348.67	0.13
5400.00	1.50	225.15	5398.31	100.00	-8.04	34.77 N	8.60 W	35.82@	346.10	0.66
5500.00	0.70	206.95	5498.29	100.00	-9.26	33.30 N	9.81 W	34.71@	343.59	0.85
5600.00	1.52	207.44	5598.27	100.00	-10.18	31.58 N	10.69 W	33.34@	341.29	0.81
5700.00	0.97	179.04	5698.24	100.00	-10.81	29.56 N	11.29 W	31.64@	339.10	0.81
5800.00	0.78	178.49	5798.23	100.00	-10.80	28.04 N	11.26 W	30.21@	338.12	0.19
5900.00	0.99	170.90	5898.22	100.00	-10.67	26.50 N	11.10 W	28.74@	337.27	0.24
6000.00	1.23	179.94	5998.20	100.00	-10.57	24.58 N	10.97 W	26.91@	335.96	0.30
6100.00	0.99	214.66	6098.18	100.00	-11.09	22.79 N	11.46 W	25.51@	333.31	0.70
** TIED-IN TO VAUGHN ENERGY SERVICES GYRO SURVEY AT 6129' MD.										
6129.00	0.86	213.22	6127.18	29.00	-11.35	22.40 N	11.72 W	25.28@	332.38	0.47
THE FOLLOWING ARE PATHFINDER MWD SURVEYS.										
6214.00	1.14	195.23	6212.17	85.00	-11.95	21.05 N	12.29 W	24.38@	329.72	0.49
6269.00	2.02	109.89	6267.15	55.00	-11.19	20.19 N	11.52 W	23.25@	330.29	4.07
6300.00	6.95	95.48	6298.05	31.00	-8.82	19.83 N	9.14 W	21.83@	335.25	16.19
6331.00	10.99	93.98	6328.66	31.00	-4.01	19.44 N	4.32 W	19.92@	347.46	13.05
6362.00	14.68	93.54	6358.88	31.00	2.85	19.00 N	2.55 E	19.17@	7.63	11.91
6393.00	17.67	93.63	6388.65	31.00	11.46	18.45 N	11.16 E	21.57@	31.17	9.65
6424.00	20.58	92.66	6417.94	31.00	21.59	17.90 N	21.30 E	27.83@	49.96	9.44
6455.00	22.86	89.76	6446.74	31.00	33.05	17.68 N	32.77 E	37.23@	61.66	8.13
6486.00	24.97	87.21	6475.07	31.00	45.61	18.02 N	45.33 E	48.78@	68.32	7.58
6517.00	27.17	86.07	6502.92	31.00	59.22	18.82 N	58.93 E	61.86@	72.28	7.28
6548.00	30.25	86.78	6530.10	31.00	74.10	19.75 N	73.79 E	76.38@	75.02	10.00
6579.00	33.33	86.51	6556.45	31.00	90.41	20.70 N	90.09 E	92.44@	77.06	9.95
6610.00	35.53	86.60	6582.02	31.00	107.92	21.76 N	107.58 E	109.76@	78.57	7.10
6641.00	37.99	86.95	6606.85	31.00	126.46	22.80 N	126.10 E	128.15@	79.75	7.96

PathFinder Energy Services, Inc.

Survey Report

XTO ENERGY INC
NASH UNIT #49H
EDDY COUNTY, NM
RIG:PIONEER 33

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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)
6672.00	40.01	85.98	6630.94	31.00	145.95	24.01 N	145.58 E	147.54@	80.64	6.81
6703.00	42.47	85.90	6654.25	31.00	166.35	25.45 N	165.96 E	167.90@	81.28	7.94
6734.00	45.20	86.16	6676.61	31.00	187.79	26.94 N	187.37 E	189.30@	81.82	8.83
6765.00	46.87	85.63	6698.13	31.00	210.06	28.54 N	209.63 E	211.56@	82.25	5.53
6798.00	48.89	85.98	6720.26	33.00	234.50	30.33 N	234.04 E	236.00@	82.62	6.17
6827.00	50.91	86.25	6738.94	29.00	256.65	31.83 N	256.17 E	258.14@	82.92	7.00
6858.00	53.38	87.04	6757.96	31.00	281.11	33.26 N	280.60 E	282.57@	83.24	8.22
6889.00	56.98	88.18	6775.66	31.00	306.54	34.31 N	306.02 E	307.94@	83.60	12.00
6919.00	60.59	89.06	6791.21	30.00	332.19	34.93 N	331.67 E	333.50@	83.99	12.29
6950.00	63.75	89.50	6805.68	31.00	359.60	35.27 N	359.08 E	360.81@	84.39	10.27
6981.00	65.33	89.24	6819.00	31.00	387.59	35.58 N	387.07 E	388.70@	84.75	5.15
7012.00	67.62	89.41	6831.38	31.00	416.01	35.91 N	415.49 E	417.03@	85.06	7.40
7043.00	70.52	89.59	6842.45	31.00	444.96	36.17 N	444.44 E	445.90@	85.35	9.37
7074.00	73.42	89.68	6852.04	31.00	474.44	36.35 N	473.91 E	475.30@	85.61	9.36
7105.00	75.18	90.12	6860.43	31.00	504.28	36.40 N	503.75 E	505.07@	85.87	5.84
7136.00	76.15	89.94	6868.11	31.00	534.31	36.39 N	533.79 E	535.02@	86.10	3.18
7240.00	87.14	88.80	6883.20	104.00	637.04	37.53 N	636.52 E	637.62@	86.63	10.62
7271.00	87.41	89.68	6884.67	31.00	668.01	37.94 N	667.48 E	668.56@	86.75	2.97
7303.00	87.41	89.94	6886.12	32.00	699.97	38.05 N	699.45 E	700.48@	86.89	0.81
7366.00	87.32	89.15	6889.01	63.00	762.90	38.55 N	762.38 E	763.35@	87.11	1.26
7461.00	87.32	88.27	6893.45	95.00	857.80	40.69 N	857.25 E	858.21@	87.28	0.93
7555.00	87.93	87.04	6897.35	94.00	951.68	44.53 N	951.09 E	952.13@	87.32	1.46
7650.00	88.99	86.42	6899.90	95.00	1046.57	49.95 N	1045.90 E	1047.09@	87.27	1.29
7745.00	89.08	88.97	6901.50	95.00	1141.52	53.77 N	1140.80 E	1142.06@	87.30	2.69
7840.00	86.44	88.27	6905.22	95.00	1236.44	56.05 N	1235.69 E	1236.96@	87.40	2.87
7872.00	86.88	88.18	6907.08	32.00	1268.38	57.04 N	1267.62 E	1268.90@	87.42	1.40
7935.00	87.85	87.74	6909.98	63.00	1331.30	59.28 N	1330.51 E	1331.83@	87.45	1.69

PathFinder Energy Services, Inc.

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NASH UNIT #49H
EDDY COUNTY, NM
RIG:PIONEER 33

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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)
8030.00	88.99	87.83	6912.60	95.00	1426.24	62.95 N	1425.40 E	1426.79@	87.47	1.20
8061.00	89.08	86.95	6913.12	31.00	1457.22	64.36 N	1456.36 E	1457.79@	87.47	2.85
8125.00	89.78	87.48	6913.75	64.00	1521.18	67.47 N	1520.29 E	1521.78@	87.46	1.37
8220.00	87.14	84.31	6916.31	95.00	1615.98	74.27 N	1614.99 E	1616.69@	87.37	4.34
8313.00	88.11	83.52	6920.16	93.00	1708.52	84.12 N	1707.38 E	1709.45@	87.18	1.34
8345.00	88.46	83.26	6921.12	32.00	1740.35	87.80 N	1739.15 E	1741.37@	87.11	1.36
8408.00	88.64	82.20	6922.71	63.00	1802.94	95.77 N	1801.63 E	1804.17@	86.96	1.71
8472.00	88.55	82.38	6924.28	64.00	1866.48	104.35 N	1865.03 E	1867.95@	86.80	0.31
8503.00	88.72	82.82	6925.02	31.00	1897.27	108.34 N	1895.76 E	1898.86@	86.73	1.52
8535.00	88.81	83.79	6925.71	32.00	1929.10	112.07 N	1927.54 E	1930.79@	86.67	3.04
8566.00	88.99	84.40	6926.31	31.00	1959.98	115.26 N	1958.37 E	1961.76@	86.63	2.05
8598.00	89.52	85.11	6926.72	32.00	1991.89	118.19 N	1990.23 E	1993.74@	86.60	2.77
8630.00	89.96	86.42	6926.87	32.00	2023.83	120.55 N	2022.14 E	2025.73@	86.59	4.32
8693.00	89.60	85.54	6927.11	63.00	2086.74	124.97 N	2084.99 E	2088.73@	86.57	1.51
8756.00	86.44	85.11	6929.29	63.00	2149.56	130.10 N	2147.73 E	2151.67@	86.53	5.06
8787.00	85.56	85.72	6931.45	31.00	2180.42	132.57 N	2178.56 E	2182.59@	86.52	3.45
8881.00	85.56	89.06	6938.73	94.00	2274.08	136.84 N	2272.16 E	2276.28@	86.55	3.54
8976.00	86.53	89.41	6945.28	95.00	2368.86	138.10 N	2366.93 E	2370.95@	86.66	1.08
9071.00	89.16	91.26	6948.85	95.00	2463.75	137.55 N	2461.85 E	2465.68@	86.80	3.38
9167.00	87.93	90.38	6951.29	96.00	2559.67	136.17 N	2557.80 E	2561.42@	86.95	1.58
9262.00	87.58	90.55	6955.01	95.00	2654.57	135.40 N	2652.73 E	2656.18@	87.08	0.41
9357.00	87.49	90.64	6959.10	95.00	2749.45	134.42 N	2747.63 E	2750.92@	87.20	0.13
9452.00	91.45	92.05	6959.98	95.00	2844.35	132.19 N	2842.58 E	2845.65@	87.34	4.43
9483.00	91.98	92.31	6959.05	31.00	2875.29	131.01 N	2873.54 E	2876.53@	87.39	1.90
9546.00	92.07	91.87	6956.82	63.00	2938.17	128.71 N	2936.46 E	2939.28@	87.49	0.71
9578.00	91.89	91.17	6955.72	32.00	2970.12	127.86 N	2968.43 E	2971.18@	87.53	2.26
9641.00	91.10	90.99	6954.07	63.00	3033.06	126.68 N	3031.40 E	3034.04@	87.61	1.29

PathFinder Energy Services, Inc.

Survey Report

XTO ENERGY INC
NASH UNIT #49H
EDDY COUNTY, NM
RIG: PIONEER 33

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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)
9736.00	86.53	89.50	6956.04	95.00	3127.99	126.27 N	3126.35 E	3128.90@	87.69	5.06
9831.00	87.05	89.59	6961.36	95.00	3222.84	127.02 N	3221.20 E	3223.70@	87.74	0.56
9926.00	86.88	89.32	6966.39	95.00	3317.70	127.92 N	3316.06 E	3318.53@	87.79	0.34
10020.00	89.69	91.35	6969.20	94.00	3411.62	127.37 N	3410.00 E	3412.38@	87.86	3.69
10115.00	87.05	88.36	6971.90	95.00	3506.55	127.61 N	3504.94 E	3507.27@	87.91	4.20
10210.00	88.46	90.82	6975.62	95.00	3601.47	128.29 N	3599.86 E	3602.14@	87.96	2.98
10305.00	88.55	90.38	6978.10	95.00	3696.40	127.30 N	3694.82 E	3697.01@	88.03	0.47
10400.00	87.85	90.82	6981.09	95.00	3791.32	126.30 N	3789.77 E	3791.87@	88.09	0.87
10495.00	89.43	93.10	6983.34	95.00	3886.16	123.05 N	3884.68 E	3886.63@	88.19	2.92
10589.00	89.16	92.75	6984.50	94.00	3979.94	118.26 N	3978.55 E	3980.30@	88.30	0.47
10684.00	88.99	92.84	6986.03	95.00	4074.73	113.63 N	4073.42 E	4075.01@	88.40	0.20
10748.00	88.90	95.48	6987.21	64.00	4138.46	108.98 N	4137.24 E	4138.67@	88.49	4.13
10779.00	87.05	95.30	6988.31	31.00	4169.25	106.07 N	4168.08 E	4169.43@	88.54	6.00
10811.00	84.59	94.69	6990.64	32.00	4200.99	103.29 N	4199.87 E	4201.14@	88.59	7.92
10842.00	82.48	93.02	6994.13	31.00	4231.69	101.22 N	4230.60 E	4231.81@	88.63	8.66
10874.00	80.28	91.96	6998.92	32.00	4263.27	99.85 N	4262.21 E	4263.38@	88.66	7.62
10905.00	78.96	90.73	7004.51	31.00	4293.73	99.13 N	4292.69 E	4293.83@	88.68	5.78
10937.00	78.79	91.26	7010.68	32.00	4325.11	98.59 N	4324.08 E	4325.21@	88.69	1.71
10969.00	79.93	90.99	7016.59	32.00	4356.54	97.97 N	4355.53 E	4356.63@	88.71	3.66
11000.00	82.31	90.82	7021.38	31.00	4387.15	97.49 N	4386.15 E	4387.23@	88.73	7.70
11032.00	83.27	90.64	7025.39	32.00	4418.89	97.08 N	4417.89 E	4418.96@	88.74	3.05
11064.00	82.83	89.85	7029.27	32.00	4450.64	96.95 N	4449.66 E	4450.71@	88.75	2.81
11095.00	83.62	90.03	7032.92	31.00	4481.42	96.98 N	4480.44 E	4481.49@	88.76	2.61
11127.00	85.91	90.73	7035.84	32.00	4513.28	96.77 N	4512.30 E	4513.34@	88.77	7.48
11158.00	87.93	91.35	7037.51	31.00	4544.22	96.20 N	4543.25 E	4544.27@	88.79	6.81
11190.00	89.25	91.78	7038.30	32.00	4576.17	95.33 N	4575.23 E	4576.22@	88.81	4.34
11221.00	89.87	92.14	7038.53	31.00	4607.13	94.27 N	4606.21 E	4607.18@	88.83	2.31

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Survey Report

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EDDY COUNTY, NM
RIG: PIONEER 33

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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)
11253.00	90.75	91.96	7038.36	32.00	4639.09	93.13 N	4638.19 E	4639.12@	88.85	2.81
11285.00	92.86	92.66	7037.35	32.00	4671.02	91.84 N	4670.15 E	4671.05@	88.87	6.95
11316.00	93.83	91.61	7035.54	31.00	4701.92	90.68 N	4701.07 E	4701.94@	88.89	4.61
11348.00	93.30	90.82	7033.55	32.00	4733.84	90.01 N	4733.00 E	4733.86@	88.91	2.97
11380.00	91.54	89.68	7032.20	32.00	4765.80	89.87 N	4764.97 E	4765.82@	88.92	6.55
11411.00	90.13	88.97	7031.75	31.00	4796.80	90.23 N	4795.96 E	4796.81@	88.92	5.09
11443.00	90.40	89.06	7031.60	32.00	4828.80	90.78 N	4827.96 E	4828.81@	88.92	0.89
11475.00	88.37	88.01	7031.95	32.00	4860.79	91.60 N	4859.94 E	4860.81@	88.92	7.14
11506.00	87.05	88.97	7033.19	31.00	4891.76	92.42 N	4890.91 E	4891.78@	88.92	5.26
11538.00	86.09	87.92	7035.10	32.00	4923.70	93.28 N	4922.84 E	4923.72@	88.91	4.44
11569.00	87.58	88.18	7036.81	31.00	4954.65	94.34 N	4953.77 E	4954.67@	88.91	4.88
11601.00	89.43	88.27	7037.65	32.00	4986.63	95.33 N	4985.74 E	4986.66@	88.90	5.79
11633.00	91.10	88.01	7037.50	32.00	5018.63	96.37 N	5017.73 E	5018.65@	88.90	5.28
11664.00	92.24	88.27	7036.59	31.00	5049.61	97.37 N	5048.70 E	5049.63@	88.90	3.77
STRAIGHT LINE PROJECTION TO BIT DEPTH AT 11732' MD.										
11732.00	92.24	88.27	7033.94	68.00	5117.55	99.42 N	5116.61 E	5117.58@	88.89	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.