

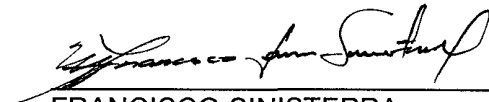
DIRECTIONAL SURVEY COMPANY REPORT:

1. NAME OF SURVEYING COMPANY: PATHFINDER ENERGY SERVICES
2. NAME OF PERSON(S) PERFORMING SURVEY:
A) NICHOLAS TVRDY
3. POSITION OF SAID PERSON(S): (A-F) SURVEYORS (FIELD ENGINEERS)
4. DATE(S) ON WHICH SURVEY WAS PERFORMED: 05/18/09 TO 05/29/09
5. STATE IN WHICH SURVEY WAS PERFORMED: NEW MEXICO
6. LOCATION OF WELL: EDDY COUNTY, NM
7. TYPE OF SURVEY(S) PERFORMED: MWD
8. COMPLETE IDENTIFICATION OF WELL:

OXY PETROLEUM
GOODNIGHT 35 FEDERAL # 2H
EDDY COUNTY, NM
RIG: H & P 370

9. SURVEY CERTIFIED FROM: 5382 TO 12318 FEET MEASURED DEPTH.

THIS IS TO VERIFY THAT ATTACHED DOCUMENTS SHOWING THE WELL TO BE DISPLACED AT 4753.20 FEET ON A BEARING OF 1.63 DEGREES FROM THE CENTER OF THE ROTARY TABLE AT A PROJECTED BIT DEPTH OF 12390 FEET, ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.


FRANCISCO SINISTERRA
M/LWD SERVICE COORDINATOR

PathFinder Energy Services, Inc.

BHL Report

Page 01/01
Tie-In Date: 05/17/2009
Date Completed: 05/29/2009

OXY PETROLEUM
GOODNIGHT 35 FEDERAL #2H
EDDY COUNTY, NEW MEXICO
Rig:H & P 370
PathFinder Office Supervisor: FRANCISCO SINISTERRA
PathFinder Field Engineers:N. TVRDY
S. ROBERTSON

Survey Horiz. Reference:WELLHEAD
Ref Coordinates: LAT:32.15.15.6841 N LON:103.57.42.5456 W
GRID Reference:NAD27 new mexico east Transverse Mercator
Ref GRID Coord: X: 614849.0000 Y: 456451.8000
North Aligned To:GRID NORTH
Total Magnetic Correction: 7.81°EAST TO GRID
Vertical Section Plane: 1.40
Survey Vert. Reference: 25.00' Rotary Table To Ground
Altitude:3088.60' Ground To MSL

Measured Depth	12390.00	(feet)
Inclination	89.78	(deg)
Azimuth	3.26	(deg)
True Vertical Depth	8023.23	(feet)
Vertical Section	4753.16	(feet)
Survey X cord	614984.57	(feet)
Survey Y cord	461203.06	(feet)
Survey Lat	32.26741625 N	(deg)
Survey Lon	103.96132643 W	(deg)
Rectangular Corr. N/S	4751.26 N	(feet)
Rectangular Corr. E/W	135.57 E	(feet)
Closure Distance	4753.20	(feet)
Direction of Closure	1.63	(deg)
Dogleg Severity	0.00	(deg/100ft)

PathFinder Energy Services, Inc.

Survey Report

OXY PETROLEUM
 GOODNIGHT 35 FEDERAL #2H
 EDDY COUNTY, NEW MEXICO
 Rig:H & P 370
 PathFinder Office Supervisor: FRANCISCO SINISTERRA
 PathFinder Field Engineers: N. TVRDY
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Survey Horiz. Reference:WELLHEAD
 Ref Coordinates: LAT:32.15.15.6841 N LON:103.57.42.5456 W
 Reference:NAD27 new mexico east Transverse Mercator
 Ref GRID Coord: X: 614849.0000 Y: 456451.8000
 North Aligned To:GRID NORTH
 Total Magnetic Correction: 7.81°EAST TO GRID
 Vertical Section Plane: 1.40
 Survey Vert. Reference: 25.00' Rotary Table To Ground
 Altitude:3088.60' Ground To MSL

Survey Calculations by RX5 V5.11i 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)
TIE IN TO WEATHERFORD SURVEY @ 5344' MD.										
5344.00	2.75	230.90	5340.13	0.00	-161.20	161.70 S	18.40 E	162.74@	173.51	0.00
THE FOLLOWING ARE PATHFINDER MWD SURVEYS.										
5382.00	2.37	158.98	5378.10	38.00	-162.52	163.01 S	17.97 E	164.00@	173.71	7.95
5394.00	2.02	154.06	5390.09	12.00	-162.94	163.43 S	18.16 E	164.44@	173.66	3.31
5476.00	0.70	79.50	5472.07	82.00	-164.12	164.64 S	19.28 E	165.76@	173.32	2.38
5507.00	0.79	73.50	5503.07	31.00	-164.01	164.54 S	19.67 E	165.72@	173.18	0.38
5570.00	1.32	36.98	5566.06	63.00	-163.29	163.84 S	20.52 E	165.12@	172.86	1.32
5665.00	1.67	32.76	5661.03	95.00	-161.22	161.80 S	21.93 E	163.28@	172.28	0.39
5759.00	1.49	31.58	5754.99	94.00	-158.99	159.61 S	23.31 E	161.30@	171.69	0.19
5853.00	1.58	33.57	5848.96	94.00	-156.84	157.49 S	24.67 E	159.41@	171.10	0.11
5948.00	1.49	36.48	5943.92	95.00	-154.72	155.40 S	26.13 E	157.59@	170.46	0.13
6042.00	1.41	39.62	6037.89	94.00	-152.81	153.53 S	27.59 E	155.99@	169.81	0.12
6136.00	1.93	10.98	6131.85	94.00	-150.34	151.09 S	28.63 E	153.77@	169.27	1.03
6230.00	1.93	9.43	6225.80	94.00	-147.21	147.97 S	29.19 E	150.82@	168.84	0.06
6325.00	2.11	14.51	6320.74	95.00	-143.93	144.70 S	29.89 E	147.75@	168.33	0.27
6419.00	2.11	352.72	6414.68	94.00	-140.53	141.31 S	30.11 E	144.48@	167.97	0.85
6513.00	2.20	345.62	6508.61	94.00	-137.08	137.84 S	29.44 E	140.95@	167.94	0.30
6607.00	1.85	342.48	6602.55	94.00	-133.91	134.65 S	28.53 E	137.64@	168.03	0.39
6702.00	1.49	348.20	6697.51	95.00	-131.26	131.98 S	27.82 E	134.88@	168.10	0.42
6796.00	1.41	351.51	6791.48	94.00	-128.93	129.64 S	27.40 E	132.50@	168.07	0.12
6890.00	1.41	346.49	6885.46	94.00	-126.67	127.37 S	26.96 E	130.19@	168.05	0.13
6985.00	1.49	343.55	6980.43	95.00	-124.37	125.05 S	26.34 E	127.79@	168.11	0.12
7048.00	4.66	5.21	7043.33	63.00	-121.03	121.71 S	26.34 E	124.53@	167.79	5.27
7079.00	6.60	4.49	7074.18	31.00	-118.00	118.68 S	26.59 E	121.62@	167.37	6.26
7110.00	8.97	3.54	7104.89	31.00	-113.80	114.49 S	26.88 E	117.61@	166.79	7.66
7142.00	11.08	1.59	7136.40	32.00	-108.23	108.93 S	27.12 E	112.25@	166.02	6.68

PathFinder Energy Services, Inc.

Survey Report

OXY PETROLEUM
GOODNIGHT 35 FEDERAL #2H
EDDY COUNTY, NEW MEXICO
RIG:H & P 370

Page 02/05

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)
7173.00	13.54	0.55	7166.68	31.00	-101.63	102.32 S	27.24 E	105.88@	165.09	7.97
7205.00	15.92	1.34	7197.63	32.00	-93.49	94.19 S	27.37 E	98.08@	163.79	7.46
7236.00	17.94	1.26	7227.28	31.00	-84.46	85.16 S	27.58 E	89.52@	162.06	6.52
7267.00	19.43	2.72	7256.65	31.00	-74.53	75.24 S	27.93 E	80.25@	159.64	5.04
7298.00	21.19	2.91	7285.72	31.00	-63.78	64.49 S	28.46 E	70.49@	156.19	5.68
7330.00	22.45	3.43	7315.43	32.00	-51.89	52.62 S	29.12 E	60.14@	151.04	3.98
7361.00	24.89	2.60	7343.82	31.00	-39.45	40.19 S	29.77 E	50.01@	143.47	7.94
7392.00	27.70	0.75	7371.61	31.00	-25.72	26.46 S	30.16 E	40.12@	131.27	9.44
7424.00	30.95	359.02	7399.50	32.00	-10.06	10.80 S	30.11 E	31.99@	109.72	10.49
7455.00	32.98	357.46	7425.80	31.00	6.33	5.61 N	29.60 E	30.13@	79.28	7.07
7486.00	35.09	357.42	7451.49	31.00	23.63	22.94 N	28.83 E	36.84@	51.49	6.81
7518.00	37.02	356.14	7477.36	32.00	42.41	41.74 N	27.77 E	50.13@	33.63	6.47
7549.00	36.93	355.89	7502.13	31.00	60.97	60.34 N	26.47 E	65.89@	23.69	0.57
7581.00	36.67	356.05	7527.75	32.00	80.05	79.46 N	25.12 E	83.34@	17.55	0.87
7612.00	38.60	356.81	7552.30	31.00	98.91	98.35 N	23.95 E	101.23@	13.68	6.40
7643.00	41.59	357.28	7576.01	31.00	118.81	118.29 N	22.92 E	120.49@	10.97	9.69
7675.00	43.97	356.60	7599.50	32.00	140.48	139.99 N	21.76 E	141.67@	8.83	7.58
7706.00	45.90	356.15	7621.44	31.00	162.29	161.84 N	20.37 E	163.12@	7.17	6.31
7738.00	47.57	356.51	7643.37	32.00	185.50	185.10 N	18.88 E	186.06@	5.82	5.28
7769.00	49.33	357.41	7663.93	31.00	208.63	208.26 N	17.65 E	209.01@	4.85	6.08
7801.00	50.30	357.18	7684.58	32.00	233.01	232.68 N	16.50 E	233.26@	4.06	3.08
7832.00	51.18	357.69	7704.20	31.00	256.96	256.66 N	15.43 E	257.12@	3.44	3.11
7863.00	51.27	357.57	7723.61	31.00	281.07	280.81 N	14.43 E	281.18@	2.94	0.42
7895.00	52.85	358.69	7743.29	32.00	306.27	306.03 N	13.61 E	306.33@	2.55	5.66
7926.00	54.78	359.12	7761.59	31.00	331.26	331.04 N	13.13 E	331.30@	2.27	6.33
7958.00	56.72	0.08	7779.60	32.00	357.70	357.49 N	12.95 E	357.73@	2.07	6.55
7989.00	58.56	0.72	7796.19	31.00	383.88	383.67 N	13.13 E	383.90@	1.96	6.19
8020.00	61.55	1.79	7811.66	31.00	410.74	410.53 N	13.72 E	410.76@	1.91	10.10
8052.00	63.14	1.77	7826.51	32.00	439.08	438.86 N	14.60 E	439.10@	1.91	4.97

PathFinder Energy Services, Inc.

Survey Report

OXY PETROLEUM
GOODNIGHT 35 FEDERAL #2H
EDDY COUNTY, NEW MEXICO
RIG:H & P 370

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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)
8083.00	64.02	2.30	7840.31	31.00	466.84	466.60 N	15.59 E	466.86@	1.91	3.23
8115.00	65.69	2.20	7853.90	32.00	495.80	495.54 N	16.73 E	495.83@	1.93	5.23
8146.00	67.97	1.90	7866.10	31.00	524.30	524.02 N	17.75 E	524.32@	1.94	7.41
8178.00	70.35	1.42	7877.48	32.00	554.20	553.92 N	18.61 E	554.23@	1.92	7.57
8209.00	72.37	0.59	7887.39	31.00	583.58	583.28 N	19.12 E	583.60@	1.88	6.99
8240.00	72.72	1.21	7896.69	31.00	613.15	612.85 N	19.59 E	613.16@	1.83	2.22
8272.00	72.46	0.91	7906.27	32.00	643.68	643.38 N	20.15 E	643.70@	1.79	1.21
8303.00	74.22	1.94	7915.15	31.00	673.38	673.07 N	20.89 E	673.39@	1.78	6.51
8335.00	74.22	1.60	7923.85	32.00	704.17	703.85 N	21.84 E	704.19@	1.78	1.02
8366.00	75.45	1.99	7931.96	31.00	734.09	733.75 N	22.78 E	734.11@	1.78	4.15
8398.00	75.80	2.44	7939.91	32.00	765.09	764.73 N	23.98 E	765.10@	1.80	1.75
8429.00	76.33	2.20	7947.37	31.00	795.17	794.79 N	25.20 E	795.19@	1.82	1.87
8461.00	77.73	2.47	7954.56	32.00	826.35	825.95 N	26.47 E	826.37@	1.84	4.45
8492.00	79.93	3.62	7960.56	31.00	856.75	856.31 N	28.09 E	856.78@	1.88	7.98
8523.00	81.95	3.30	7965.44	31.00	887.34	886.87 N	29.93 E	887.38@	1.93	6.60
8555.00	84.15	3.12	7969.31	32.00	919.08	918.58 N	31.71 E	919.13@	1.98	6.90
8586.00	85.82	3.29	7972.02	31.00	949.95	949.42 N	33.44 E	950.00@	2.02	5.42
8618.00	87.05	2.81	7974.01	32.00	981.87	981.31 N	35.14 E	981.94@	2.05	4.12
8649.00	88.99	2.22	7975.09	31.00	1012.85	1012.26 N	36.50 E	1012.92@	2.06	6.54
8681.00	89.69	2.13	7975.45	32.00	1044.84	1044.23 N	37.71 E	1044.91@	2.07	2.21
8712.00	89.78	1.83	7975.60	31.00	1075.84	1075.21 N	38.78 E	1075.91@	2.07	1.01
8743.00	89.78	1.79	7975.72	31.00	1106.84	1106.20 N	39.76 E	1106.91@	2.06	0.13
8806.00	89.87	1.98	7975.91	63.00	1169.84	1169.16 N	41.83 E	1169.91@	2.05	0.33
8886.00	89.78	2.09	7976.15	80.00	1249.83	1249.11 N	44.67 E	1249.91@	2.05	0.18
8965.00	89.34	2.94	7976.76	79.00	1328.81	1328.03 N	48.14 E	1328.91@	2.08	1.21
9059.00	89.34	2.09	7977.84	94.00	1422.79	1421.94 N	52.27 E	1422.90@	2.11	0.90
9154.00	89.52	0.85	7978.79	95.00	1517.78	1516.90 N	54.70 E	1517.88@	2.07	1.32
9248.00	89.34	0.54	7979.72	94.00	1611.77	1610.89 N	55.84 E	1611.85@	1.99	0.38
9342.00	89.08	0.09	7981.02	94.00	1705.74	1704.88 N	56.36 E	1705.81@	1.89	0.55

PathFinder Energy Services, Inc.

Survey Report

OXY PETROLEUM
GOODNIGHT 35 FEDERAL #2H
EDDY COUNTY, NEW MEXICO
RIG:H & P 370

Page 04/05

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)
9436.00	88.20	1.55	7983.25	94.00	1799.71	1798.84 N 57.70 E	1799.76@ 1.84	1.81
9531.00	90.22	2.36	7984.56	95.00	1894.69	1893.77 N 60.94 E	1894.75@ 1.84	2.29
9593.00	89.43	1.31	7984.75	62.00	1956.69	1955.73 N 62.93 E	1956.74@ 1.84	2.12
9625.00	89.52	1.07	7985.04	32.00	1988.68	1987.72 N 63.59 E	1988.74@ 1.83	0.80
9688.00	89.16	1.56	7985.77	63.00	2051.68	2050.70 N 65.04 E	2051.73@ 1.82	0.97
9751.00	89.34	1.39	7986.59	63.00	2114.67	2113.68 N 66.66 E	2114.73@ 1.81	0.39
9813.00	89.16	1.10	7987.40	62.00	2176.67	2175.66 N 68.01 E	2176.72@ 1.79	0.55
9876.00	89.43	1.77	7988.18	63.00	2239.66	2238.63 N 69.59 E	2239.71@ 1.78	1.15
9908.00	89.34	1.45	7988.52	32.00	2271.66	2270.62 N 70.48 E	2271.71@ 1.78	1.04
9971.00	89.25	1.51	7989.30	63.00	2334.66	2333.59 N 72.11 E	2334.71@ 1.77	0.17
10034.00	89.43	1.41	7990.02	63.00	2397.65	2396.57 N 73.72 E	2397.70@ 1.76	0.33
10096.00	88.99	1.09	7990.88	62.00	2459.65	2458.55 N 75.07 E	2459.69@ 1.75	0.88
10159.00	89.69	0.91	7991.60	63.00	2522.64	2521.53 N 76.17 E	2522.68@ 1.73	1.15
10222.00	89.34	1.26	7992.14	63.00	2585.64	2584.52 N 77.36 E	2585.68@ 1.71	0.79
10285.00	89.43	1.44	7992.81	63.00	2648.63	2647.50 N 78.85 E	2648.67@ 1.71	0.32
10348.00	89.60	1.67	7993.35	63.00	2711.63	2710.47 N 80.56 E	2711.67@ 1.70	0.45
10411.00	89.78	1.32	7993.69	63.00	2774.63	2773.45 N 82.20 E	2774.67@ 1.70	0.63
10473.00	90.13	0.96	7993.74	62.00	2836.63	2835.44 N 83.43 E	2836.66@ 1.69	0.81
10568.00	89.25	0.87	7994.25	95.00	2931.62	2930.42 N 84.95 E	2931.65@ 1.66	0.93
10662.00	88.90	0.97	7995.77	94.00	3025.61	3024.40 N 86.46 E	3025.63@ 1.64	0.39
10756.00	88.20	1.00	7998.15	94.00	3119.57	3118.35 N 88.07 E	3119.60@ 1.62	0.75
10851.00	88.64	1.64	8000.77	95.00	3214.54	3213.29 N 90.26 E	3214.56@ 1.61	0.82
10945.00	88.29	2.36	8003.28	94.00	3308.50	3307.20 N 93.54 E	3308.52@ 1.62	0.85
11039.00	89.25	1.47	8005.30	94.00	3402.47	3401.12 N 96.68 E	3402.50@ 1.63	1.39
11134.00	88.72	1.17	8006.98	95.00	3497.45	3496.08 N 98.87 E	3497.48@ 1.62	0.64
11228.00	88.99	1.96	8008.86	94.00	3591.43	3590.03 N 101.44 E	3591.46@ 1.62	0.89
11322.00	88.81	1.54	8010.67	94.00	3685.41	3683.97 N 104.31 E	3685.44@ 1.62	0.49
11417.00	90.22	1.36	8011.47	95.00	3780.41	3778.93 N 106.71 E	3780.44@ 1.62	1.50
11511.00	90.31	1.80	8011.04	94.00	3874.41	3872.89 N 109.30 E	3874.43@ 1.62	0.48

PathFinder Energy Services, Inc.

Survey Report

OXY PETROLEUM
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EDDY COUNTY, NEW MEXICO
RIG:H & P 370

Page 05/05

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets		Closure Dist Dir		DLS
						(ft)	(ft)	(ft)	(deg)	(dg/100ft)
11605.00	88.90	1.24	8011.68	94.00	3968.40	3966.85 N	111.79 E	3968.43@	1.61	1.61
11700.00	88.11	1.53	8014.16	95.00	4063.37	4061.79 N	114.09 E	4063.40@	1.61	0.89
11794.00	88.20	1.01	8017.19	94.00	4157.32	4155.72 N	116.17 E	4157.35@	1.60	0.56
11888.00	89.16	1.14	8019.35	94.00	4251.29	4249.68 N	117.94 E	4251.32@	1.59	1.03
11983.00	88.64	0.79	8021.18	95.00	4346.27	4344.65 N	119.54 E	4346.29@	1.58	0.66
12077.00	89.78	1.20	8022.47	94.00	4440.26	4438.62 N	121.17 E	4440.28@	1.56	1.29
12171.00	89.78	2.09	8022.84	94.00	4534.26	4532.58 N	123.87 E	4534.27@	1.57	0.95
12266.00	90.13	3.43	8022.91	95.00	4629.23	4627.47 N	128.44 E	4629.25@	1.59	1.46
12318.00	89.78	3.26	8022.95	52.00	4681.20	4679.38 N	131.47 E	4681.23@	1.61	0.75
STRAIGHT LINE PROJECTION TO BIT @ 12390' MD.										
12390.00	89.78	3.26	8023.23	72.00	4753.16	4751.26 N	135.57 E	4753.20@	1.63	0.00