



30-015-36784

SEP - 8 2009

DIRECTIONAL SURVEY REPORT

OGX RESOURCES, LLC.

TANKLESS "35" FEDERAL #1H

EDDY COUNTY, NEW MEXICO

PREPARED BY: FRANCISCO SINISTERRA

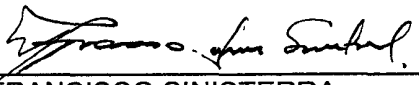
Pathfinder Energy Services, Inc.
6213 W. County Road 112 • Midland, TX • 79706
(432)681-6000

DIRECTIONAL SURVEY COMPANY REPORT:

1. NAME OF SURVEYING COMPANY: PATHFINDER ENERGY SERVICES
2. NAME OF PERSON(S) PERFORMING SURVEY:
A) JUSTIN FALLIN
3. POSITION OF SAID PERSON(S): (A-F) SURVEYORS (FIELD ENGINEERS)
4. DATE(S) ON WHICH SURVEY WAS PERFORMED: 02/06/09 TO 02/17/09
5. STATE IN WHICH SURVEY WAS PERFORMED: NEW MEXICO
6. LOCATION OF WELL: EDDY COUNTY
7. TYPE OF SURVEY(S) PERFORMED: MWD
8. COMPLETE IDENTIFICATION OF WELL:

OGX RESOURCES, LLC.
TANKLESS "35" FEDERAL #1H
EDDY COUNTY, NM
RIG: JW #1
9. SURVEY CERTIFIED FROM: 7,592 TO 11,572 FEET MEASURED DEPTH.

THIS IS TO VERIFY THAT ATTACHED DOCUMENTS SHOWING THE WELL TO BE DISPLACED AT 3,722.98 FEET ON A BEARING OF 180.19 DEGREES FROM THE CENTER OF THE ROTARY TABLE AT A PROJECTED BIT DEPTH OF 11,625 FEET, ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.



FRANCISCO SINISTERRA
M/LWD COORDINATOR

PathFinder Energy Services, Inc.

BHL Report

Page 01/01
Tie-in Date: 02/07/2009
Date Completed: 02/17/2009

OGX RESOURCES, LLC.
TANKLESS 35 FED #1H
EDDY COUNTY, NEW MEXICO
Rig:JW #1
PathFinder Office Supervisor: FRANCISCO SINISTERRA
PathFinder Field Engineers:J.FALLIN

Survey Horiz. Reference:WELLHEAD
Ref Coordinates: LAT:32.21.11.3439 N LON:103.45.17.1788 W
GRID Reference:NAD83 new mexico east Transverse Mercator
Ref GRID Coord: X: 719995.1260 Y: 492690.9210
North Aligned To:GRID NORTH
Total Magnetic Correction: 7.64° EAST TO GRID
Vertical Section Plane: 180.72
Survey Vert. Reference: 20.00' Rotary Table To Ground
Altitude:3451.00' Ground To MSL

Measured Depth	11625.00	(feet)
Inclination	92.42	(deg)
Azimuth	181.54	(deg)
True Vertical Depth	8181.00	(feet)
Vertical Section	3722.82	(feet)
Survey X cord	719983.13	(feet)
Survey Y cord	488967.96	(feet)
Survey Lat	32.34291790 N	(deg)
Survey Lon	103.75487585 W	(deg)
Rectangular Corr. N/S	3722.96 S	(feet)
Rectangular Corr. E/W	11.99 W	(feet)
Closure Distance	3722.98	(feet)
Direction of Closure	180.18	(deg)
Dogleg Severity	0.00	(deg/100ft)

PathFinder Energy Services, Inc.

Survey Report

OGX RESOURCES, LLC.
TANKLESS 35 FED #1H
EDDY COUNTY, NEW MEXICO
Rig:JW #1

PathFinder Office Supervisor: FRANCISCO SINISTERRA
PathFinder Field Engineers: J.FALLIN

Page 01/04
Tie-in Date: 02/07/2009
Date Completed: 02/17/2009

Survey Horiz. Reference:WELLHEAD
Ref Coordinates: LAT:32.21.11.3439 N LON:103.45.17.1788 W
Reference:NAD83 new mexico east Transverse Mercator
Ref GRID Coord: X: 719995.1260 Y: 492690.9210
North Aligned To:GRID NORTH
Total Magnetic Correction: 7.64° EAST TO GRID
Vertical Section Plane: 180.72
Survey Vert. Reference: 20.00' Rotary Table To Ground
Altitude:3451.00' Ground To MSL

Survey Calculations by PathCalc v1.97 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 PROVIDED BY SCIENTIFIC DRILLING CONTROLS @ 7577' MD.										
7577.00	1.21	202.78	7576.12	0.00	40.05	40.81 S	60.55 E	73.02@	123.98	0.00
THE FOLLOWING ARE PATHFINDER MWD SURVEYS.										
7592.00	1.14	196.85	7591.12	15.00	40.34	41.10 S	60.45 E	73.09@	124.21	0.93
7624.00	1.14	196.28	7623.11	32.00	40.95	41.71 S	60.26 E	73.29@	124.69	0.04
7656.00	1.32	197.77	7655.10	32.00	41.61	42.37 S	60.06 E	73.50@	125.20	0.57
7687.00	3.25	185.96	7686.08	31.00	42.82	43.58 S	59.86 E	74.04@	126.05	6.38
7719.00	6.68	183.10	7717.95	32.00	45.59	46.34 S	59.67 E	75.55@	127.84	10.74
7750.00	10.29	181.51	7748.61	31.00	50.16	50.91 S	59.50 E	78.31@	130.55	11.67
7782.00	14.16	180.48	7779.88	32.00	56.93	57.68 S	59.39 E	82.79@	134.17	12.11
7813.00	17.94	180.26	7809.66	31.00	65.50	66.25 S	59.33 E	88.94@	138.15	12.20
7844.00	21.54	180.70	7838.84	31.00	75.97	76.72 S	59.24 E	96.93@	142.33	11.62
7876.00	25.24	180.47	7868.20	32.00	88.67	89.42 S	59.12 E	107.20@	146.53	11.57
7907.00	28.75	180.40	7895.82	31.00	102.74	103.49 S	59.01 E	119.13@	150.31	11.32
7939.00	32.80	178.90	7923.31	32.00	119.11	119.86 S	59.12 E	133.65@	153.74	12.88
7970.00	36.14	179.60	7948.86	31.00	136.64	137.40 S	59.35 E	149.67@	156.64	10.85
8002.00	39.48	179.76	7974.14	32.00	156.26	157.01 S	59.46 E	167.89@	159.26	10.44
8033.00	43.26	179.72	7997.40	31.00	176.74	177.50 S	59.55 E	187.22@	161.45	12.19
8065.00	46.78	179.99	8020.02	32.00	199.37	200.13 S	59.60 E	208.82@	163.41	11.02
8096.00	50.39	178.58	8040.52	31.00	222.60	223.37 S	59.90 E	231.27@	164.99	12.13
8128.00	54.69	180.06	8059.98	32.00	247.99	248.76 S	60.19 E	255.94@	166.40	13.93
8159.00	58.65	181.05	8077.01	31.00	273.88	274.66 S	59.94 E	281.12@	167.69	13.05
8190.00	62.61	181.46	8092.21	31.00	300.89	301.66 S	59.35 E	307.44@	168.87	12.83
8222.00	67.09	181.37	8105.81	32.00	329.85	330.61 S	58.63 E	335.77@	169.94	14.00

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Survey Report

OGX RESOURCES, LLC.
TANKLESS 35 FED #1H
EDDY COUNTY, NEW MEXICO
RIG:JW #1

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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)
8253.00	70.79	181.14	8116.94	31.00	358.77	359.53 S	58.00 E	364.18@	170.84	11.96
8285.00	70.79	181.30	8127.47	32.00	388.99	389.74 S	57.35 E	393.94@	171.63	0.47
8316.00	71.84	181.34	8137.40	31.00	418.35	419.10 S	56.68 E	422.91@	172.30	3.39
8347.00	74.57	181.18	8146.36	31.00	448.03	448.77 S	56.03 E	452.25@	172.88	8.82
8379.00	76.94	181.36	8154.23	32.00	479.04	479.77 S	55.34 E	482.95@	173.42	7.43
8410.00	78.61	181.34	8160.80	31.00	509.33	510.06 S	54.62 E	512.98@	173.89	5.39
8443.00	83.71	180.54	8165.87	33.00	541.93	542.65 S	54.09 E	545.34@	174.31	15.64
8473.00	88.55	180.94	8167.89	30.00	571.85	572.57 S	53.70 E	575.09@	174.64	16.19
8505.00	90.22	180.97	8168.24	32.00	603.85	604.57 S	53.17 E	606.90@	174.97	5.22
8536.00	89.60	180.19	8168.28	31.00	634.85	635.56 S	52.86 E	637.76@	175.25	3.21
8567.00	87.58	179.41	8169.05	31.00	665.83	666.55 S	52.97 E	668.65@	175.46	6.98
8599.00	86.70	178.95	8170.64	32.00	697.78	698.51 S	53.42 E	700.55@	175.63	3.10
8630.00	86.70	178.92	8172.43	31.00	728.72	729.45 S	54.00 E	731.45@	175.77	0.10
8662.00	87.41	179.47	8174.07	32.00	760.66	761.41 S	54.45 E	763.35@	175.91	2.81
8693.00	88.02	180.27	8175.31	31.00	791.63	792.38 S	54.52 E	794.25@	176.06	3.24
8725.00	88.20	180.47	8176.36	32.00	823.62	824.36 S	54.31 E	826.15@	176.23	0.84
8755.00	89.25	180.87	8177.03	30.00	853.61	854.35 S	53.96 E	856.06@	176.39	3.75
8788.00	89.43	181.28	8177.41	33.00	886.60	887.34 S	53.34 E	888.95@	176.56	1.36
8819.00	89.43	181.65	8177.72	31.00	917.60	918.33 S	52.55 E	919.84@	176.73	1.19
8851.00	89.16	181.35	8178.11	32.00	949.59	950.32 S	51.71 E	951.73@	176.89	1.26
8882.00	88.64	180.65	8178.71	31.00	980.59	981.31 S	51.17 E	982.64@	177.02	2.81
8914.00	88.11	180.18	8179.62	32.00	1012.57	1013.29 S	50.94 E	1014.57@	177.12	2.21
8945.00	88.20	180.16	8180.61	31.00	1043.56	1044.28 S	50.85 E	1045.52@	177.21	0.30
8977.00	89.08	181.01	8181.37	32.00	1075.55	1076.27 S	50.52 E	1077.45@	177.31	3.82
9008.00	89.25	181.68	8181.83	31.00	1106.54	1107.26 S	49.79 E	1108.37@	177.43	2.23
9039.00	89.43	182.04	8182.18	31.00	1137.53	1138.24 S	48.79 E	1139.28@	177.55	1.30
9070.00	89.69	182.41	8182.42	31.00	1168.52	1169.21 S	47.58 E	1170.18@	177.67	1.46

PathFinder Energy Services, Inc.

Survey Report

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TANKLESS 35 FED #1H
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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)
9102.00	89.60	182.92	8182.62	32.00	1200.50	1201.18 S	46.09 E	1202.06@	177.80	1.62
9133.00	89.69	183.46	8182.81	31.00	1231.47	1232.13 S	44.37 E	1232.93@	177.94	1.77
9165.00	89.69	183.19	8182.98	32.00	1263.44	1264.07 S	42.51 E	1264.79@	178.07	0.84
9196.00	89.52	182.67	8183.20	31.00	1294.42	1295.03 S	40.93 E	1295.68@	178.19	1.76
9228.00	89.25	182.15	8183.54	32.00	1326.40	1327.00 S	39.58 E	1327.59@	178.29	1.83
9259.00	88.90	181.77	8184.04	31.00	1357.39	1357.98 S	38.52 E	1358.53@	178.38	1.67
9291.00	88.90	181.93	8184.66	32.00	1389.38	1389.96 S	37.49 E	1390.46@	178.45	0.50
9322.00	88.99	181.50	8185.23	31.00	1420.37	1420.94 S	36.56 E	1421.41@	178.53	1.42
9385.00	89.52	181.75	8186.05	63.00	1483.35	1483.91 S	34.78 E	1484.32@	178.66	0.93
9447.00	89.25	181.37	8186.71	62.00	1545.34	1545.88 S	33.09 E	1546.24@	178.77	0.75
9510.00	89.43	181.20	8187.44	63.00	1608.34	1608.86 S	31.68 E	1609.17@	178.87	0.39
9573.00	89.96	181.16	8187.77	63.00	1671.33	1671.85 S	30.38 E	1672.12@	178.96	0.84
9636.00	90.22	181.03	8187.67	63.00	1734.33	1734.83 S	29.17 E	1735.08@	179.04	0.46
9699.00	90.04	180.15	8187.53	63.00	1797.33	1797.83 S	28.53 E	1798.06@	179.09	1.43
9761.00	90.13	179.39	8187.44	62.00	1859.32	1859.83 S	28.77 E	1860.05@	179.11	1.23
9823.00	89.16	180.22	8187.82	62.00	1921.31	1921.83 S	28.99 E	1922.05@	179.14	2.06
9883.00	88.55	180.32	8189.02	60.00	1981.30	1981.81 S	28.70 E	1982.02@	179.17	1.03
9945.00	89.08	180.05	8190.30	62.00	2043.28	2043.80 S	28.50 E	2044.00@	179.20	0.96
10007.00	89.60	179.60	8191.02	62.00	2105.27	2105.80 S	28.69 E	2105.99@	179.22	1.11
10069.00	88.99	180.57	8191.78	62.00	2167.26	2167.79 S	28.60 E	2167.98@	179.24	1.85
10132.00	88.99	181.83	8192.89	63.00	2230.25	2230.76 S	27.28 E	2230.93@	179.30	2.00
10195.00	89.25	182.28	8193.86	63.00	2293.22	2293.72 S	25.02 E	2293.85@	179.37	0.82
10256.00	89.34	182.00	8194.61	61.00	2354.20	2354.67 S	22.74 E	2354.78@	179.45	0.48
10318.00	89.16	181.37	8195.42	62.00	2416.18	2416.64 S	20.92 E	2416.73@	179.50	1.06
10380.00	89.52	181.21	8196.14	62.00	2478.18	2478.62 S	19.53 E	2478.69@	179.55	0.64
10441.00	89.69	180.96	8196.56	61.00	2539.17	2539.60 S	18.37 E	2539.67@	179.59	0.50
10504.00	89.78	181.54	8196.85	63.00	2602.17	2602.59 S	17.00 E	2602.64@	179.63	0.93

PathFinder Energy Services, Inc.

Survey Report

OGX RESOURCES, LLC.
TANKLESS 35 FED #1H
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RIG:JW #1

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10566.00	90.13	181.55	8196.90	62.00	2664.16	2664.57 S	15.33 E	2664.61@	179.67	0.56
10628.00	90.57	182.07	8196.52	62.00	2726.15	2726.53 S	13.37 E	2726.57@	179.72	1.10
10690.00	90.57	181.59	8195.90	62.00	2788.14	2788.50 S	11.39 E	2788.52@	179.77	0.77
10753.00	90.04	180.75	8195.57	63.00	2851.13	2851.48 S	10.10 E	2851.50@	179.80	1.58
10816.00	90.57	181.38	8195.23	63.00	2914.13	2914.47 S	8.93 E	2914.49@	179.82	1.31
10878.00	90.84	181.50	8194.47	62.00	2976.12	2976.45 S	7.37 E	2976.46@	179.86	0.48
10941.00	89.96	180.07	8194.03	63.00	3039.12	3039.44 S	6.51 E	3039.44@	179.88	2.67
11004.00	90.57	180.27	8193.74	63.00	3102.11	3102.44 S	6.32 E	3102.44@	179.88	1.02
11065.00	90.75	181.47	8193.03	61.00	3163.11	3163.42 S	5.40 E	3163.43@	179.90	1.99
11126.00	90.84	181.44	8192.19	61.00	3224.10	3224.40 S	3.85 E	3224.40@	179.93	0.16
11189.00	91.01	181.34	8191.17	63.00	3287.08	3287.37 S	2.32 E	3287.37@	179.96	0.31
11251.00	90.40	181.02	8190.41	62.00	3349.08	3349.35 S	1.04 E	3349.35@	179.98	1.11
11313.00	90.13	182.18	8190.12	62.00	3411.07	3411.33 S	0.69 W	3411.33@	180.01	1.92
11374.00	91.19	182.72	8189.42	61.00	3472.03	3472.27 S	3.30 W	3472.27@	180.05	1.95
11437.00	91.54	182.11	8187.92	63.00	3534.99	3535.19 S	5.95 W	3535.20@	180.10	1.12
11500.00	91.98	182.09	8185.98	63.00	3597.94	3598.12 S	8.26 W	3598.13@	180.13	0.70
11563.00	92.33	181.66	8183.61	63.00	3660.88	3661.04 S	10.32 W	3661.06@	180.16	0.88
11572.00	92.42	181.54	8183.24	9.00	3669.87	3670.03 S	10.57 W	3670.05@	180.16	1.67
STRAIGHT LINE PROJECTION TO BIT @ 11635' MD.										
11625.00	92.42	181.54	8181.00	53.00	3722.82	3722.96 S	11.99 W	3722.98@	180.18	0.00



TIE-IN SURVEY INFORMATION SHEET

CLIENT INFORMATION

CLIENT:	OGX RESOURCES, LLC.		
LEASE / WELL No.:	TANKLESS 35 FED	# 1H	
WELL LOCATION:	EDDY COUNTY		
COUNTY / STATE / COUNTRY:	EDDY	N.M.	U.S.A.
RIG:	JW #1		
API WELL No:	30-015-36784		
JOB No:	101008259-WT-WT		
P.O. / AFE No.	0106-0001245-000		
DIRECTIONAL COMPANY:	PATHFINDER ENERGY		

WELL SITE INFORMATION

MAGNETIC DECLINATION:			
On Wall Plat:	7.64	LWD Calculated:	7.642522
		Agreed Upon:	7.642522
X =	719995.126000	Feet	Y = 492690.921000
			Feet
SITE LATITUDE:	32.353151 N	SITE LONGITUDE:	103.754772 W
GRID SYSTEM:	TRUE ☐ UTM ☐ LAMBERT ☒	ZONE:	NEW MEXICO EAST
PROPOSED DRIFT DIRECTION:	180.64 180.72		
KELLY BUSHING ELEVATION:	20'		
ALTITUDE:	3451	Feet	WATER DEPTH: 0
			Feet

TIE-IN SURVEY

MEASURED DEPTH:	7577
DRIFT ANGLE:	1.21
DRIFT DIRECTION:	202.85
TRUE VERTICAL DEPTH:	7576.11
VERTICAL SECTION:	40.21
RECTANGULAR COORDINATE (N / S):	-40.89
RECTANGULAR COORDINATE (E / W):	60.5
CLOSURE DISTANCE / DIRECTION:	
SURVEY CALCULATION METHOD:	AA ☐ MC ☒ RC ☐ BT ☐
SOURCE OF TIE-IN DATA (COMPANY):	SCIENTIFIC DRILLING CONTROLS
COPY OF TIE-IN SURVEY REPORT	☒ YES ☐ NO

WELL PLAN

KICKOFF DEPTH:	7672.5	TOTAL DEPTH:	12101.96
KICKOFF ANGLE:	0	MAX ANGLE:	88.92

PES Engineers:

J.C. Faller

**Signature of both field engineers required if applicable

Directional Driller:

K. E. Faller

DATE: 2-5-09