



APR 13 2009

30-015-36645

DIRECTIONAL SURVEY REPORT

OGX RESOURCES LLC

HIGGINS 33 #1H

EDDY COUNTY, NEW MEXICO

PREPARED BY: FRANCISCO SINISTERRA

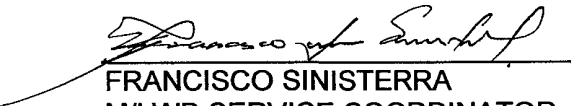
Pathfinder Energy Services, Inc.
6213 W. County Road 112 • Midland, TX • 79706
(432)681-6000

DIRECTIONAL SURVEY COMPANY REPORT:

1. NAME OF SURVEYING COMPANY: PATHFINDER ENERGY SERVICES
2. NAME OF PERSON(S) PERFORMING SURVEY:
A) MIKE ZAW
3. POSITION OF SAID PERSON(S): (A-F) SURVEYORS (FIELD ENGINEERS)
4. DATE(S) ON WHICH SURVEY WAS PERFORMED: 11/17/08 TO 11/28/08
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:

OGX RESOURCES LLC
HIGGINS 33 #1H
EDDY COUNTY, NM
RIG: ADOBE SUNDANCE
9. SURVEY CERTIFIED FROM: 6,672 TO 10,850 FEET MEASURED DEPTH.

THIS IS TO VERIFY THAT ATTACHED DOCUMENTS SHOWING THE WELL TO BE
DISPLACED AT 3,725.20 FEET ON A BEARING OF 263.10 DEGREES FROM THE
CENTER OF THE ROTARY TABLE AT A PROJECTED BIT DEPTH OF 10,916 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: 11/17/2008
Date Completed: 11/28/2008

OGX RESOURCES LLC.
HIGGINS 33 #1H
EDDY COUNTY, NM
Rig: ADOBE SUNDANCE
PathFinder Office Supervisor: FRANCISCO SINISTERRA
PathFinder Field Engineers: MIKE ZAW
PRITHWISH DAS

Survey Horiz. Reference: WELLHEAD
Ref Coordinates: LAT: 32.15.38.0448 N LON: 104.5.9.5820 W
GRID Reference: NAD83 new mexico east Transverse Mercator
Ref GRID Coord: X: 617791.9094 Y: 458615.8852
North Aligned To: GRID NORTH
Total Magnetic Correction: 7.99° EAST TO GRID
Vertical Section Plane: 263.78
Survey Vert. Reference: 21.60' Kelly Bushing To Ground
Altitude: 3066.00' Ground To MSL

Measured Depth	10916.00	(feet)
Inclination	88.99	(deg)
Azimuth	261.68	(deg)
True Vertical Depth	7331.81	(feet)
Vertical Section	3734.94	(feet)
Survey X cord	614083.79	(feet)
Survey Y cord	458166.90	(feet)
Survey Lat	32.25935672 N	(deg)
Survey Lon	104.09799427 W	(deg)
Rectangular Corr. N/S	448.98 S	(feet)
Rectangular Corr. E/W	3708.12 W	(feet)
Closure Distance	3735.20	(feet)
Direction of Closure	263.10	(deg)
Dogleg Severity	0.00	(deg/100ft)

PathFinder Energy Services, Inc.

Survey Report

OGX RESOURCES LLC.

HIGGINS 33 #1H

EDDY COUNTY, NM

Rig:ADOBE SUNDANCE

PathFinder Office Supervisor: FRANCISCO SINISTERRA

PathFinder Field Engineers: MIKE ZAW

JUAN ALCOCER

PRITHWISH DAS

Survey Calculations by PathCalc v1.97 using Minimum Curvature

Page 01/03

Tie-in Date: 11/17/2008

Date Completed: 11/28/2008

Survey Horiz. Reference:WELLHEAD

Ref Coordinates: LAT:32.15.38.0448 N LON:104.5.9.5820 W

Reference:NAD83 new mexico east Transverse Mercator

Ref GRID Coord: X: 617791.9094 Y: 458615.8852

North Aligned To:GRID NORTH

Total Magnetic Correction: 7.99° EAST TO GRID

Vertical Section Plane: 263.78

Survey Vert. Reference: 21.60' Kelly Bushing To Ground

Altitude:3066.00' 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)
TIE IN TO SCIENTIFIC GYRO SURVEY @ 6600' MD.										
6600.00	0.96	84.86	6598.70	0.00	-43.71	29.63 S	47.20 E	55.73@	122.12	0.39
THE FOLLOWING ARE PATHFINDER MWD SURVEYS										
6672.00	0.53	116.14	6670.69	72.00	-44.60	29.72 S	48.10 E	56.54@	121.71	0.80
6734.00	4.22	263.79	6732.64	62.00	-42.56	30.10 S	46.09 E	55.04@	123.14	7.54
6765.00	4.92	260.82	6763.54	31.00	-40.09	30.43 S	43.64 E	53.20@	124.89	2.38
6797.00	4.84	265.59	6795.43	32.00	-37.37	30.75 S	40.94 E	51.21@	126.91	1.29
6829.00	4.48	263.04	6827.32	32.00	-34.77	31.01 S	38.35 E	49.32@	128.96	1.30
6860.00	6.07	266.83	6858.19	31.00	-31.92	31.25 S	35.52 E	47.31@	131.34	5.25
6892.00	8.27	264.97	6889.94	32.00	-27.93	31.54 S	31.53 E	44.60@	135.01	6.91
6923.00	11.34	263.68	6920.48	31.00	-22.65	32.07 S	26.28 E	41.47@	140.67	9.93
6955.00	14.33	263.75	6951.68	32.00	-15.54	32.85 S	19.22 E	38.06@	149.67	9.34
6987.00	17.15	262.86	6982.48	32.00	-6.87	33.87 S	10.60 E	35.49@	162.63	8.84
7018.00	20.05	261.58	7011.85	31.00	3.02	35.22 S	0.80 E	35.22@	178.69	9.45
7050.00	22.07	260.44	7041.72	32.00	14.50	37.02 S	10.55 W	38.49@	195.91	6.44
7082.00	24.18	262.33	7071.14	32.00	27.06	38.89 S	22.98 W	45.17@	210.58	6.99
7114.00	26.64	265.04	7100.05	32.00	40.78	40.39 S	36.62 W	54.52@	222.20	8.50
7146.00	30.34	266.66	7128.17	32.00	56.03	41.48 S	51.84 W	66.39@	231.34	11.81
7177.00	33.77	267.85	7154.44	31.00	72.45	42.26 S	68.27 W	80.29@	238.25	11.25
7209.00	36.58	267.54	7180.59	32.00	90.84	43.00 S	86.69 W	96.77@	243.62	8.80
7240.00	39.75	267.62	7204.96	31.00	109.95	43.81 S	105.83 W	114.54@	247.51	10.23
7273.00	43.97	266.89	7229.53	33.00	131.93	44.87 S	127.82 W	135.46@	250.66	12.87
7304.00	48.54	266.18	7250.96	31.00	154.29	46.23 S	150.17 W	157.12@	252.89	14.83
7336.00	53.02	267.48	7271.19	32.00	179.04	47.59 S	174.91 W	181.27@	254.78	14.35

PathFinder Energy Services, Inc.

Survey Report

OGX RESOURCES LLC.
HIGGINS 33 #1H
EDDY COUNTY, NM
RIG:ADOBE SUNDANCE

Page 02/03

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)
7368.00	56.98	266.56	7289.54	32.00	205.20	48.96 S	201.08 W	206.96@	256.32	12.60
7400.00	60.32	266.25	7306.19	32.00	232.50	50.67 S	228.35 W	233.91@	257.49	10.47
7432.00	63.40	265.44	7321.28	32.00	260.70	52.72 S	256.49 W	261.86@	258.39	9.88
7463.00	66.48	264.37	7334.41	31.00	288.77	55.21 S	284.46 W	289.77@	259.02	10.42
7494.00	70.52	264.09	7345.77	31.00	317.60	58.11 S	313.15 W	318.50@	259.49	13.06
7527.00	74.22	263.54	7355.76	33.00	349.05	61.50 S	344.41 W	349.86@	259.88	11.32
7559.00	77.91	262.77	7363.47	32.00	380.10	65.21 S	375.24 W	380.87@	260.14	11.77
7591.00	80.37	262.29	7369.49	32.00	411.52	69.29 S	406.40 W	412.27@	260.32	7.83
7623.00	83.71	262.32	7373.93	32.00	443.19	73.54 S	437.80 W	443.94@	260.47	10.44
7686.00	90.13	262.81	7377.31	63.00	506.06	81.67 S	500.15 W	506.78@	260.73	10.22
7782.00	89.96	262.36	7377.23	96.00	602.03	94.06 S	595.35 W	602.73@	261.02	0.50
7878.00	90.92	262.32	7376.50	96.00	698.00	106.86 S	690.49 W	698.71@	261.20	1.00
7973.00	90.66	262.06	7375.19	95.00	792.95	119.76 S	784.60 W	793.68@	261.32	0.39
8068.00	89.34	262.38	7375.19	95.00	887.92	132.62 S	878.72 W	888.67@	261.42	1.43
8164.00	93.65	263.81	7372.68	96.00	983.85	144.16 S	973.97 W	984.58@	261.58	4.73
8259.00	92.59	263.47	7367.51	95.00	1078.71	154.67 S	1068.24 W	1079.38@	261.76	1.17
8354.00	90.92	264.12	7364.60	95.00	1173.66	164.93 S	1162.63 W	1174.27@	261.93	1.89
8448.00	90.31	263.13	7363.59	94.00	1267.65	175.37 S	1256.05 W	1268.23@	262.05	1.24
8543.00	90.31	263.36	7363.08	95.00	1362.65	186.54 S	1350.39 W	1363.21@	262.14	0.24
8639.00	90.84	264.09	7362.12	96.00	1458.64	197.03 S	1445.81 W	1459.17@	262.24	0.94
8733.00	91.28	264.38	7360.38	94.00	1552.62	206.47 S	1539.31 W	1553.10@	262.36	0.56
8828.00	90.57	263.98	7358.84	95.00	1647.61	216.11 S	1633.81 W	1648.04@	262.47	0.86
8924.00	91.36	263.83	7357.23	96.00	1743.59	226.30 S	1729.25 W	1744.00@	262.54	0.84
9017.00	91.54	264.29	7354.87	93.00	1836.56	235.92 S	1821.72 W	1836.94@	262.62	0.53
9112.00	92.24	263.92	7351.74	95.00	1931.51	245.67 S	1916.17 W	1931.85@	262.69	0.83
9206.00	93.83	264.92	7346.76	94.00	2025.37	254.80 S	2009.59 W	2025.68@	262.77	2.00
9302.00	92.07	264.79	7341.82	96.00	2121.22	263.39 S	2105.07 W	2121.49@	262.87	1.84

PathFinder Energy Services, Inc.

Survey Report

OGX RESOURCES LLC.
HIGGINS 33 #1H
EDDY COUNTY, NM
RIG:ADOBE SUNDANCE

Page 03/03

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)
9397.00	90.92	264.67	7339.34	95.00	2216.17	272.12 S	2199.64 W	2216.40@	262.95	1.22
9492.00	88.72	263.76	7339.64	95.00	2311.16	281.69 S	2294.15 W	2311.37@	263.00	2.51
9587.00	89.96	263.02	7340.74	95.00	2406.15	292.63 S	2388.51 W	2406.36@	263.02	1.52
9680.00	90.04	263.52	7340.74	93.00	2499.14	303.53 S	2480.86 W	2499.36@	263.02	0.54
9775.00	91.36	264.26	7339.58	95.00	2594.14	313.64 S	2575.31 W	2594.34@	263.06	1.59
9870.00	90.57	263.30	7337.98	95.00	2689.12	323.93 S	2669.74 W	2689.32@	263.08	1.31
9964.00	90.31	263.68	7337.25	94.00	2783.12	334.58 S	2763.13 W	2783.31@	263.10	0.49
10059.00	90.84	263.72	7336.30	95.00	2878.11	345.01 S	2857.55 W	2878.30@	263.12	0.56
10154.00	91.45	263.90	7334.40	95.00	2973.09	355.25 S	2951.98 W	2973.28@	263.14	0.67
10248.00	90.22	262.65	7333.03	94.00	3067.07	366.26 S	3045.32 W	3067.26@	263.14	1.87
10343.00	90.84	262.98	7332.15	95.00	3162.06	378.14 S	3139.57 W	3162.26@	263.13	0.74
10438.00	89.60	262.59	7331.79	95.00	3257.04	390.07 S	3233.81 W	3257.25@	263.12	1.37
10533.00	90.04	263.70	7332.09	95.00	3352.03	401.41 S	3328.13 W	3352.25@	263.12	1.26
10628.00	90.48	263.58	7331.66	95.00	3447.03	411.93 S	3422.55 W	3447.25@	263.14	0.48
10723.00	90.22	262.94	7331.08	95.00	3542.02	423.08 S	3516.89 W	3542.24@	263.14	0.73
10818.00	90.48	262.58	7330.50	95.00	3637.01	435.05 S	3611.13 W	3637.24@	263.13	0.47
10850.00	88.99	261.68	7330.64	32.00	3668.99	439.43 S	3642.82 W	3669.23@	263.12	5.44
STRAIGHT LINE PROJECTION TO BIT AT 10916' MD.										
10916.00	88.99	261.68	7331.81	66.00	3734.94	448.98 S	3708.12 W	3735.20@	263.10	0.00

S C I E N T I F I C D R I L L I N G C O N T R O L S

KEEPER GYRO SURVEY
Directional Survey Report
for

OGX RESOURCES

Well Number	:	HIGGINS 33 #1 H
Well Location	:	EDDY COUNTY TEXAS
Job Number	:	32K1008047
Location Latitude	:	32.086
Survey Date	:	30-OCT-2008
S.D.C. Personnel	:	JOHNNY PENA
Length Units	:	Feet
North Reference	:	TRUE North
Grid Correction	:	0.00 Degrees
Survey Depth Zero	:	RKB
Proposal Direction	:	
Calculation Method	:	Minimum Curvature

Remarks : The OUTFUN Survey will be called definitive

S C I E N T I F I C D R I L L I N G C O N T R O L S

Outrun Survey
for
OBX RESOURCES

Page 2

Well No.: HIGGINS 33 #1 H

Date : 30-OCT-2008

Job No. : 32K1008047

TRUE

Proposal : 0.00

Depth (Feet)	T.V.D. (Feet)	V.S. (Feet)	Inc Deg.	Azimuth Deg.	Latitude (Feet)	Departure (Feet)	D-leg /100
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4000.00	3998.80	-22.42	0.52	57.10	-22.42	38.23	0.40
4100.00	4098.80	-22.21	0.65	93.91	-22.21	39.18	0.39
4200.00	4198.80	-22.42	0.20	173.98	-22.42	39.76	0.65
4300.00	4298.80	-22.50	0.11	346.07	-22.50	39.76	0.31
4400.00	4398.79	-22.29	0.42	70.26	-22.29	40.08	0.42
4500.00	4498.79	-22.59	0.52	161.89	-22.59	40.56	0.68
4600.00	4598.79	-23.10	0.09	200.93	-23.10	40.68	0.45
4700.00	4698.79	-23.13	0.35	82.11	-23.13	40.95	0.40
4800.00	4798.79	-23.28	0.22	173.69	-23.28	41.28	0.42
4900.00	4898.79	-23.50	0.13	256.52	-23.50	41.19	0.24
5000.00	4998.78	-23.78	0.44	131.27	-23.78	41.37	0.53
5100.00	5098.78	-24.00	0.14	281.95	-24.00	41.53	0.57
5200.00	5198.78	-23.86	0.17	325.53	-23.86	41.33	0.12
5300.00	5298.78	-23.52	0.24	0.24	-23.52	41.25	0.14
5400.00	5398.78	-23.52	0.32	136.57	-23.52	41.44	0.52
5500.00	5498.78	-23.70	0.05	291.04	-23.70	41.59	0.37
5600.00	5598.78	-23.45	0.27	353.60	-23.45	41.52	0.25
5700.00	5698.78	-23.49	0.33	157.57	-23.49	41.61	0.59
5800.00	5798.78	-23.94	0.23	200.11	-23.94	41.65	0.22
5900.00	5898.77	-24.63	0.59	164.58	-24.63	41.72	0.42
6000.00	5998.77	-25.43	0.35	177.70	-25.43	41.87	0.26
6100.00	6098.77	-26.21	0.59	202.74	-26.21	41.68	0.31
6200.00	6198.76	-27.29	0.70	175.86	-27.29	41.52	0.32
6300.00	6298.75	-28.32	0.76	128.95	-28.32	42.08	0.58
6400.00	6398.74	-29.05	1.04	110.04	-29.05	43.45	0.40
6500.00	6498.72	-29.59	1.17	102.87	-29.59	45.30	0.19
6600.00	6598.70	-29.74	0.96	84.99	-29.74	47.13	0.39
6700.00	6698.69	-29.75	0.97	95.84	-29.75	48.81	0.18
6800.00	6798.67	-29.39	1.60	71.38	-29.39	50.97	0.82
6900.00	6898.62	-28.07	1.87	57.66	-28.07	53.67	0.49
7000.00	6998.56	-26.35	1.92	59.64	-26.35	56.50	0.08
7100.00	7098.52	-24.95	1.57	65.98	-24.95	59.19	0.40
7200.00	7198.49	-24.13	1.30	76.78	-24.13	61.55	0.38
7300.00	7298.45	-23.75	1.65	84.90	-23.75	64.09	0.41
7400.00	7398.42	-23.49	1.28	83.61	-23.49	66.63	0.37
7500.00	7498.38	-23.54	1.99	95.53	-23.54	69.47	0.78
7600.00	7598.32	-24.80	1.91	130.95	-24.80	72.46	1.19
7700.00	7698.28	-26.96	1.37	153.98	-26.96	74.24	0.84
7800.00	7798.23	-29.76	2.30	149.43	-29.76	75.78	0.94
7860.00	7858.18	-31.97	2.61	148.91	-31.97	77.10	0.52

SCIENTIFIC DRILLING CONTROLS

Outrun Survey
for
OGX RESOURCES

Page 3

Well No.: HIGGINS 33 #1 H

Date : 30-OCT-2008

Job No. : 32K1008047

TRUE

Proposal : 0.00

Depth	T.V.D.	V.S.	Inc	Azimuth	Latitude	Departure	D-leg
(Feet)	(Feet)	(Feet)	Deg.	Deg.	(Feet)	(Feet)	/100

Measured Depth 7860.00 is 83.47 in a Direction of 112.52 Degrees

S C I E N T I F I C D R I L L I N G C O N T R O L S

Outrun Survey
for
OGX RESOURCES

Page 1

Well No.: HIGGINS 33 #1 H

Date : 30-OCT-2008

Job No. : 32K1008047

Proposal : 0.00

Depth (Feet)	T.V.D. (Feet)	V.S. (Feet)	Inc Deg.	TRUE Azimuth Deg.	Latitude (Feet)	Departure (Feet)	D-lee /100
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0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	100.00	0.10	0.93	276.73	0.10	-0.81	0.93
200.00	199.99	0.06	0.24	232.68	0.06	-1.78	0.78
300.00	299.99	-0.18	0.38	110.22	-0.18	-1.63	0.55
400.00	399.99	-0.70	0.74	231.40	-0.70	-1.83	0.99
500.00	499.95	-2.36	2.30	230.90	-2.36	-3.89	1.56
600.00	599.87	-5.12	2.33	222.99	-5.12	-6.83	0.32
700.00	699.79	-8.00	2.20	223.40	-8.00	-9.54	0.13
800.00	799.71	-10.97	2.31	218.68	-10.97	-12.12	0.22
900.00	899.64	-13.94	1.84	209.44	-13.94	-14.16	0.58
1000.00	999.59	-17.14	2.08	186.67	-17.14	-15.16	0.81
1100.00	1099.52	-20.67	1.99	175.52	-20.67	-15.24	0.41
1200.00	1199.49	-23.28	1.16	150.07	-23.28	-14.60	1.07
1300.00	1299.47	-24.48	0.69	121.87	-24.48	-13.58	0.64
1400.00	1399.47	-24.82	0.44	94.18	-24.82	-12.69	0.36
1500.00	1499.47	-24.74	0.29	65.21	-24.74	-12.07	0.23
1600.00	1599.47	-24.56	0.12	42.96	-24.56	-11.77	0.18
1700.00	1699.46	-24.32	0.33	54.44	-24.32	-11.47	0.21
1800.00	1799.46	-24.30	1.15	98.48	-24.30	-10.24	0.94
1900.00	1899.42	-24.50	1.80	92.11	-24.50	-7.68	0.67
2000.00	1999.38	-24.68	1.50	95.10	-24.68	-4.81	0.31
2100.00	2099.34	-25.21	1.83	105.15	-25.21	-1.96	0.44
2200.00	2199.26	-25.99	2.64	99.03	-25.99	1.85	0.84
2300.00	2299.17	-26.73	2.24	101.19	-26.73	6.05	0.41
2400.00	2399.09	-27.19	2.26	92.38	-27.19	9.93	0.35
2500.00	2499.03	-27.18	1.65	86.35	-27.18	13.34	0.64
2600.00	2599.00	-26.99	1.33	84.94	-26.99	15.93	0.32
2700.00	2698.98	-26.83	1.12	86.98	-26.83	18.06	0.21
2800.00	2798.96	-26.69	1.18	84.91	-26.69	20.07	0.07
2900.00	2898.93	-26.23	1.31	70.90	-26.23	22.17	0.33
3000.00	2998.91	-25.93	1.03	94.91	-25.93	24.15	0.56
3100.00	3098.90	-25.97	0.90	87.23	-25.97	25.83	0.18
3200.00	3198.89	-25.85	0.83	83.83	-25.85	27.33	0.09
3300.00	3298.88	-25.70	0.72	82.90	-25.70	28.68	0.11
3400.00	3398.87	-25.34	0.82	67.28	-25.34	29.96	0.23
3500.00	3498.86	-24.76	0.79	63.46	-24.76	31.24	0.06
3600.00	3598.85	-24.20	0.86	70.38	-24.20	32.56	0.12
3700.00	3698.84	-23.72	0.91	73.78	-23.72	34.03	0.07
3800.00	3798.82	-23.23	0.98	71.54	-23.23	35.60	0.08
3900.00	3898.81	-22.81	0.84	78.41	-22.81	37.13	0.18

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources



Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

SEP 25 2008
OCD-ARTESIA
Form C-101
June 16, 2008
Submit to appropriate District Office

☐ AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

Operator Name and Address OGX RESIURCES, LLC. P. O. BOX 2064 MIDLAND, TEXAS 79702		OGRID Number 217955
Property Code 37394		API Number 30-015-36645
Property Name HIGGINS "33"		Well No. 1H
Proposed Pool 1 WILDCAT-BONE SPRING		Proposed Pool 2

Surface Location

UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
I	33	23S	28E		2300'	SOUTH	660'	EAST	EDDY

Proposed Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
L	33	23S	28E		1980'	SOUTH	350'	WEST	EDDY

Additional Well Information

Work Type Code N	Well Type Code Q	Cable/Rotary ROTARY	Lease Type Code P	Ground Level Elevation 3066'
Multiple NO	Proposed Depth MD-11249'-TVD7165'	Formation BONE SPRING	Contractor ADOBE DRILLING CO	Spud Date WHEN APPROVED *

Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
26"	20"	Conductor	40'	Redi-mix	Surface
17 1/2"	13 3/8"	48#	510'	4000 Sx.	Surface
12 1/4"	9 5/8"	36#	2400'	650 Sx	Surface
8 3/4"	5 1/2"	17#	11,249' TVD7165	1400 Sx	Surface

* Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

* DRILLING RIG WAITING

SEE ATTACHED SHEET FOR DETAIL

I hereby certify that the information given above is true and complete to the best of my knowledge and belief.

Signature:

Joe T. Janica

Printed name: Joe T. Janica

Title:

Permit Eng.

E-mail Address: joejanica@valornet.com

Date: 09/25/08

Phone: 575-391-8503

OIL CONSERVATION DIVISION

Approved by:

Jim W. Grem

Title:

District II Supervisor

Approval Date:

9/26/08

Expiration Date:

9/26/10

Conditions of Approval Attached ☐

DISTRICT I

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DISTRICT II

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DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV

1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources DepartmentForm C-102
Revised October 12, 2005Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies**OIL CONSERVATION DIVISION**1220 South St. Francis Dr.
Santa Fe, New Mexico 87505☐ AMENDED REPORT**WELL LOCATION AND ACREAGE DEDICATION PLAT**

API Number		Pool Code	Pool Name
			WILDCAT-BONE SPRING
Property Code	Property Name		Well Number
	HIGGINS "33"		1H
OGRID No.	Operator Name		Elevation
247955	OGX RESOURCES, L.L.C.		3066'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	33	23 S	28 E		2300	SOUTH	660	EAST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	33	23 S	28 E		1980	SOUTH	350	WEST	EDDY
Dedicated Acres		Joint or Infill		Consolidation Code		Order No.			
160									

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

	OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Signature: <u>Joe T. Janica</u> Date: <u>09/25/08</u> Printed Name: <u>Joe T. Janica</u>
	SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. Date Surveyed: <u>SEPTEMBER 22, 2008</u> Signature & Seal of Professional Surveyor: <u>Gary L. Jones</u> Certificate No. <u>20590</u> BASIN SURVEYS, INC.
	BOTTOM HOLE LOCATION LAT- N.: 32°15'34.84" LONG- W.: 104°05'59.44" SPC- N.: 458282.348 E.: 613511.554 (NAD-83)
	SURFACE LOCATION LAT- N.: 32°15'38.04" LONG- W.: 104°05'09.58" SPC- N.: 458615.792 E.: 617791.982 (NAD-83)

PATHFINDER ENERGY SERVICES

TIE-IN SURVEY INFORMATION SHEET

CLIENT INFORMATION

CLIENT:	OGX RESOURCES LLC		
LEASE / WELL No.:	HIGGINS	33 #1H	
WELL LOCATION:	EDDY COUNTY, NM		
COUNTY / STATE / COUNTRY:	EDDY COUNTY	NM	USA
RIG:	ADOBE SUNDANCE		
API WELL No:	30-15-36645		
JOB No:	101008052-WT-WT		
P.O. / AFE No.			
DIRECTIONAL COMPANY:	PATHFINDER ENERGY SVC.		

WELL SITE INFORMATION

MAGNETIC DECLINATION:			
On Wall Plat:	7.987	LWD Calculated:	7.986
		Agreed Upon:	7.986
X =	617791.982000	Feet	Y = 458615.792000
			Feet
SITE LATITUDE:	32.260568	SITE LONGITUDE:	104.085995
GRID SYSTEM:	TRUE ☒ UTM ☐ LAMBERT ☐ ZONE:		
PROPOSED DRIFT DIRECTION:	263.78		
KELLY BUSHING ELEVATION:	21.6		
ALTITUDE:	3066	Feet	WATER DEPTH: 0
			Feet

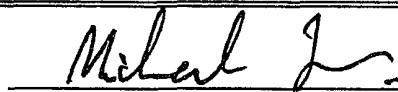
TIE-IN SURVEY

MEASURED DEPTH:	6600		
DRIFT ANGLE:	84.99		
DRIFT DIRECTION:	0.96		
TRUE VERTICAL DEPTH:	6598.7		
VERTICAL SECTION:			
RECTANGULAR COORDINATE (N / S) :	-29.74		
RECTANGULAR COORDINATE (E / W) :	47.13		
CLOSURE DISTANCE / DIRECTION:	0	0	
SURVEY CALCULATION METHOD:	AA ☐	MC ☒	RC ☐ BT ☐
SOURCE OF TIE-IN DATA (COMPANY):	SCIENTIFIC DRILLING		
COPY OF TIE-IN SURVEY REPORT	☐ YES ☐ NO		

WELL PLAN

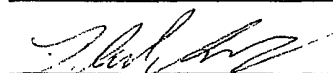
KICKOFF DEPTH: 6	TOTAL DEPTH: 11508
KICKOFF ANGLE:	MAX ANGLE: 90

PES Engineers:



**Signature of both field engineers required if applicable

Directional Driller:



DATE: _____

PathFinder Energy Services, Inc.

Magnetic & Grid Calculations

OGX RESOURCES, LLC.
HIGGINS 33 #1H
EDDY COUNTY, NEW MEXICO
Rig: ADOBE SUNDANCE

Fri Nov 14 14:55:41 2008

Coordinates

Latitude: 32.260568 N (32 deg. 15 min. 38.0439 sec.)
Longitude: 104.085995 W (-104 deg. 5 min. 9.5812 sec.)
Elevation: 3066.00 feet.
Calculation Date: Nov/14/2008

Magnetic Calculations

Model: IGRF2005
Dip Angle: 60.2068 degrees
Total Magnetic Field: 0.48867 gauss
Magnetic Declination: 8.119196 degrees
Horizontal Intensity: 0.242808 gauss
To Convert a Magnetic Dir. to a TRUE North Dir. Add 8.119196 Degs

Transverse Mercator Grid Calculations NAD83

Grid System: Transverse Mercator: new mexico east
Ellipsoid: GRS80
X: 617791.9820 feet
Y: 458615.7920 feet
True to Grid: (convergence) -0.132023 degrees
Magnetic to Grid: 7.987173 degrees
To Convert a Magnetic Dir. to a GRID dir. Add 7.987173 Degs.

PathFinder Energy Services, Inc.

Magnetic & Grid Calculations

*ON SITE
Calculated.*

OGX RESOURCES LLC.
HIGGINS 33 #1H

Rig: ADOBE SUNDANCE

Sun Nov 16 22:10:50 2008

Coordinates

Latitude: 32.260568 N (32 deg. 15 min. 38.0448 sec.)
Longitude: 104.085995 W (-104 deg. 5 min. 9.5820 sec.)
Elevation: 3066.00 feet.
Calculation Date: Nov/15/2008

Magnetic Calculations

Model: IGRF2005
Dip Angle: 60.2067 degrees
Total Magnetic Field: 0.48867 gauss
Magnetic Declination: 8.118872 degrees
Horizontal Intensity: 0.242807 gauss
To Convert a Magnetic Dir. to a TRUE North Dir. Add 8.118872 Degs

Transverse Mercator Grid Calculations NAD83

Grid System: Transverse Mercator: new mexico east
Ellipsoid: GRS80
X: 617791.9094 feet
Y: 458615.8852 feet
True to Grid: (convergence) -0.132023 degrees
Magnetic to Grid: 7.986849 degrees
To Convert a Magnetic Dir. to a GRID dir. Add 7.986849 Degs.