



UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SEP 26 2008
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
b Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff Resrv
Other: _____

2 Name of Operator
OGX RESOURCES, LLC 217955

3 Address P.O BOX 2064, MIDLAND, TX 79702 3a Phone No (include area code) 432 685-1287

4 Location of Well (Report location clearly and in accordance with Federal requirements)*

At surface 660' FNL & 660' FEL (A)

At top prod interval reported below

At total depth 330' FWL & 660' FNL (D)

14 Date Spudded 05/25/2008 15 Date T.D Reached 07/13/2008 16 Date Completed 08/08/2008
☐ D & A ☒ Ready to Prod

18 Total Depth MD 10,885' TVD 7925' 19 Plug Back T.D. MD 10,848' TVD 20 Depth Bridge Plug Set MD TVD

21 Type Electric & Other Mechanical Logs Run (Submit copy of each)
GR/CCL/CBL

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 Sks & Type of Cement	Slurry Vol (BBL)	Cement Top*	Amount Pulled
17 1/2"	13 3/8"	48#	0	539'		505 sx C		surface	none
12 1/4"	9 5/8"	35#	0	2720'		900 sx C		surface	none
7 7/8"	5 1/2"	20#	0	10,885'	5858'	1725 sx poz C &	1450 sx C	surface	none

24 Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
------	----------------	-------------------	------	----------------	-------------------	------	----------------	-------------------

25 Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No Holes	Perf Status
A) Bone Springs	9330'	9570'	9330-9570' and			
B) Bone Springs	9800'	10,700'	9800-10,700'		50	open
C) Bone Springs	7740'	9130'	7740-9130'		40	open
D)						

27 Acid, Fracture, Treatment, Cement Squeeze, etc

Depth Interval	Amount and Type of Material
9330-10,700'	4000 gals 15% NEFE; 6000 gals w/14/40 prop, 179,000# 20/40 sand
7740-9130'	4000 gals 15% NEFE; 6000 gals w/179,000# prop/sand w/gel

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr API	Gas Gravity	Production Method
8-9-08	8-18-08	24	→	152	495	386	42		flowing
Choke Size	Tbg. Press Flwg SI	Csg Press	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
2 7/8"	1100#		→						

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
			→						
Choke Size	Tbg. Press Flwg SI	Csg Press	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

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

ACCEPTED FOR RECORD
S/ DAVID R. GLASS
SEP 23 2008
DAVID R. GLASS
PETROLEUM ENGINEER

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr API	Gas Gravity	Production Method
			→						
Choke Size	Tbg Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr API	Gas Gravity	Production Method
			→						
Choke Size	Tbg Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

29. Disposition of Gas (Solid, used for fuel, vented, etc.)

30. Summary of Porous Zones (Include Aquifers).

Show all important zones of porosity and contents thereof. Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

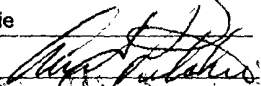
Formation	Top	Bottom	Descriptions, Contents, etc	Name	Top Meas Depth
BUREAU OF LAND MGMT CAPSULE SERVICE	09 SEP -8 PM 4:26	RECEIVED		Lamar Lime	2830'
				Ramsey	2871'
				Cherry Canyon	3703'
				Brushy Canyon	4966'
				Bone Spring	6570'

32. Additional remarks (include plugging procedure)

3. Indicate which items have been attached by placing a check in the appropriate boxes:

- ☒ Electrical/Mechanical Logs (1 full set req'd.)
 ☐ Geologic Report
 ☐ DST Report
 ☐ Directional Survey
- ☐ Sundry Notice for plugging and cement verification
 ☐ Core Analysis
 ☐ Other

I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)*

Name (please print) Ann E. RitcieTitle Regulatory AgentSignature Date 09/02/2008

Under 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction

Continued on page 3)

(Form 3160-4, page 2)



DIRECTIONAL SURVEY REPORT

OGX RESOURCES, LLC.

COOPER 31 FEDERAL #1

EDDY COUNTY, NEW MEXICO

PREPARED BY: CODY MEBANE

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

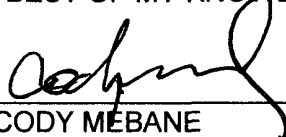
DIRECTIONAL SURVEY COMPANY REPORT:

1. NAME OF SURVEYING COMPANY: PATHFINDER ENERGY SERVICES
2. NAME OF PERSON(S) PERFORMING SURVEY: A) J. FALLIN
3. POSITION OF SAID PERSON(S): (A-F) SURVEYORS (FIELD ENGINEERS)
4. DATE(S) ON WHICH SURVEY WAS PERFORMED: 6/27/08 TO 7/10/08
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.
COOPER 31 FEDERAL #1
EDDY COUNTY, NM
RIG: JW #5

9. SURVEY CERTIFIED FROM: 7129 TO 10778 FEET MEASURED DEPTH.

THIS IS TO VERIFY THAT ATTACHED DOCUMENTS SHOWING THE WELL TO BE DISPLACED AT 3489.96 FEET ON A BEARING OF 267.90 DEGREES FROM THE CENTER OF THE ROTARY TABLE AT A PROJECTED BIT DEPTH OF 10885.00 FEET, ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.



CODY MEBANE
M/LWD SERVICE COORDINATOR

PathFinder Energy Services, Inc.

BHL Report

Page 01/01
Tie-in Date: 06/28/2008
Date Completed: 07/10/2008

OGX RESOURCES LLC.
COOPER 31 FEDERAL #1
EDDY COUNTY, N.M.
Rig:JW #5
PathFinder Office Supervisor: CODY MEBANE
PathFinder Field Engineers:J.FALLIN

Survey Horiz. Reference:WELLHEAD
Ref Coordinates: LAT:32.5.30.6056 N LON:104.1.1.5056 W
GRID Reference:NAD83 new mexico east Transverse Mercator
Ref GRID Coord: X: 639273.1200 Y: 397289.9700
North Aligned To:GRID NORTH
Total Magnetic Correction: 7.95° EAST TO GRID
Vertical Section Plane: 269.84
Survey Vert. Reference: 18.00' Kelly Bushing To Ground
Altitude:2976.00' Ground To MSL

Measured Depth	10885.00	(feet)
Inclination	93.83	(deg)
Azimuth	267.32	(deg)
True Vertical Depth	7496.23	(feet)
Vertical Section	3517.87	(feet)
Survey X cord	635755.60	(feet)
Survey Y cord	397160.97	(feet)
Survey Lat	32.09150813 N	(deg)
Survey Lon	104.02844453 W	(deg)
Rectangular Corr. N/S	129.00 S	(feet)
Rectangular Corr. E/W	3517.52 W	(feet)
Closure Distance	3519.89	(feet)
Direction of Closure	267.90	(deg)
Dogleg Severity	0.00	(deg/100ft)

PathFinder Energy Services, Inc.

Survey Report

OGX RESOURCES LLC.
COOPER 31 FEDERAL #1
EDDY COUNTY, N.M.
Rig:JW #5
PathFinder Office Supervisor: CODY MEBANE
PathFinder Field Engineers: J.FALLIN

Page 01/05
Tie-in Date: 06/28/2008
Date Completed: 07/10/2008

Survey Horiz. Reference:WELLHEAD
Ref Coordinates: LAT:32.5.30.6056 N LON:104.1.1.5056 W
Reference:NAD83 new mexico east Transverse Mercator
Ref GRID Coord: X: 639273.1200 Y: 397289.9700
North Aligned To:GRID NORTH
Total Magnetic Correction: 7.95° EAST TO GRID
Vertical Section Plane: 269.84
Survey Vert. Reference: 18.00' Kelly Bushing To Ground
Altitude:2976.00' 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 PROVIDED BY SCIENTIFIC DRILLING CONTROLS @ 7100' MD.										
7100.00	1.80	297.38	7098.79	7100.00	-32.47	43.63 S	32.59 E	54.46@	143.24	0.03
THE FOLLOWING ARE PATHFINDER MWD SURVEYS.										
7129.00	7.03	272.58	7127.70	29.00	-30.29	43.34 S	30.41 E	52.95@	144.94	18.79
7160.00	10.46	279.65	7158.33	31.00	-25.62	42.78 S	25.74 E	49.93@	148.97	11.57
7191.00	13.89	274.91	7188.63	31.00	-19.14	41.99 S	19.26 E	46.20@	155.37	11.52
7223.00	18.29	272.22	7219.37	32.00	-10.29	41.47 S	10.41 E	42.76@	165.91	13.94
7254.00	22.16	271.07	7248.45	31.00	0.42	41.17 S	0.30 W	41.17@	180.42	12.55
7285.00	25.68	271.17	7276.79	31.00	12.98	40.93 S	12.87 W	42.90@	197.45	11.35
7316.00	30.07	271.48	7304.18	31.00	27.47	40.59 S	27.35 W	48.94@	213.98	14.17
7348.00	33.50	274.11	7331.38	32.00	44.29	39.75 S	44.18 W	59.43@	228.02	11.56
7379.00	37.46	273.48	7356.62	31.00	62.24	38.56 S	62.13 W	73.13@	238.17	12.83
7411.00	41.86	271.14	7381.25	32.00	82.64	37.76 S	82.53 W	90.76@	245.42	14.52
7442.00	47.22	268.86	7403.34	31.00	104.37	37.78 S	104.26 W	110.90@	250.08	18.04
7474.00	52.32	268.90	7424.00	32.00	128.79	38.26 S	128.68 W	134.25@	253.44	15.94
7505.00	57.51	268.93	7441.81	31.00	154.14	38.74 S	154.04 W	158.83@	255.88	16.74
7533.00	62.96	268.23	7455.71	28.00	178.43	39.34 S	178.33 W	182.61@	257.56	19.58
7564.00	68.15	268.74	7468.53	31.00	206.64	40.08 S	206.53 W	210.38@	259.02	16.81
7595.00	72.55	269.10	7478.95	31.00	235.82	40.63 S	235.71 W	239.19@	260.22	14.23
7627.00	74.30	268.61	7488.08	32.00	266.49	41.25 S	266.37 W	269.55@	261.20	5.66
7658.00	76.41	268.60	7495.92	31.00	296.47	41.98 S	296.35 W	299.31@	261.94	6.81
7690.00	78.88	268.37	7502.77	32.00	327.72	42.80 S	327.60 W	330.38@	262.56	7.75
7720.00	80.37	268.40	7508.17	30.00	357.22	43.64 S	357.10 W	359.75@	263.03	4.97
7752.00	81.25	268.75	7513.28	32.00	388.80	44.42 S	388.68 W	391.21@	263.48	2.95
7783.00	81.07	268.67	7518.04	31.00	419.42	45.11 S	419.30 W	421.72@	263.86	0.63
7814.00	82.66	268.79	7522.43	31.00	450.11	45.79 S	449.98 W	452.30@	264.19	5.14

PathFinder Energy Services, Inc.

Survey Report

OGX RESOURCES LLC.
COOPER 31 FEDERAL #1
EDDY COUNTY, N.M.
RIG:JW #5

Page 02/05

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)
7846.00	85.03	269.16	7525.86	32.00	481.91	46.36 S	481.79 W	484.01@	264.50	7.50
7877.00	87.93	269.31	7527.76	31.00	512.85	46.77 S	512.72 W	514.85@	264.79	9.37
7908.00	90.92	269.42	7528.07	31.00	543.85	47.12 S	543.72 W	545.75@	265.05	9.65
7940.00	90.66	269.16	7527.63	32.00	575.84	47.51 S	575.71 W	577.67@	265.28	1.15
7971.00	89.25	269.62	7527.66	31.00	606.84	47.84 S	606.71 W	608.59@	265.49	4.79
8003.00	86.61	270.73	7528.81	32.00	638.81	47.74 S	638.68 W	640.47@	265.72	8.95
8027.00	86.00	271.19	7530.36	24.00	662.76	47.34 S	662.63 W	664.32@	265.91	3.18
8059.00	86.09	270.93	7532.57	32.00	694.68	46.75 S	694.55 W	696.12@	266.15	0.86
8089.00	86.00	270.79	7534.64	30.00	724.60	46.30 S	724.47 W	725.95@	266.34	0.55
8120.00	85.47	270.60	7536.94	31.00	755.51	45.93 S	755.39 W	756.78@	266.52	1.82
8152.00	86.53	270.01	7539.17	32.00	787.43	45.76 S	787.31 W	788.63@	266.67	3.79
8183.00	86.88	269.76	7540.96	31.00	818.38	45.82 S	818.26 W	819.54@	266.79	1.39
8214.00	88.20	269.91	7542.29	31.00	849.35	45.91 S	849.23 W	850.47@	266.91	4.29
8246.00	88.64	269.89	7543.17	32.00	881.34	45.97 S	881.21 W	882.41@	267.01	1.38
8278.00	88.72	269.62	7543.91	32.00	913.33	46.10 S	913.20 W	914.37@	267.11	0.88
8309.00	88.81	269.58	7544.57	31.00	944.32	46.32 S	944.20 W	945.33@	267.19	0.32
8340.00	88.99	269.45	7545.17	31.00	975.32	46.58 S	975.19 W	976.30@	267.27	0.72
8372.00	89.43	269.50	7545.61	32.00	1007.31	46.87 S	1007.19 W	1008.28@	267.34	1.38
8403.00	90.75	269.46	7545.56	31.00	1038.31	47.16 S	1038.18 W	1039.25@	267.40	4.26
8435.00	91.10	269.26	7545.04	32.00	1070.31	47.51 S	1070.18 W	1071.23@	267.46	1.26
8467.00	91.36	269.37	7544.36	32.00	1102.30	47.90 S	1102.17 W	1103.21@	267.51	0.88
8498.00	91.10	268.77	7543.69	31.00	1133.29	48.40 S	1133.16 W	1134.19@	267.55	2.11
8528.00	91.01	268.47	7543.14	30.00	1163.27	49.12 S	1163.14 W	1164.18@	267.58	1.04
8559.00	90.84	268.29	7542.64	31.00	1194.26	50.00 S	1194.13 W	1195.17@	267.60	0.80
8590.00	90.84	268.11	7542.18	31.00	1225.24	50.97 S	1225.11 W	1226.17@	267.62	0.58
8621.00	90.92	268.24	7541.71	31.00	1256.23	51.96 S	1256.09 W	1257.16@	267.63	0.49

PathFinder Energy Services, Inc.

Survey Report

OGX RESOURCES LLC.
COOPER 31 FEDERAL #1
EDDY COUNTY, N.M.
RIG:JW #5

Page 03/05

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)
8651.00	90.92	268.04	7541.23	30.00	1286.21	52.93 S	1286.07 W	1287.16@	267.64	0.67
8682.00	91.10	268.36	7540.68	31.00	1317.19	53.91 S	1317.05 W	1318.15@	267.66	1.18
8713.00	90.57	268.07	7540.23	31.00	1348.18	54.87 S	1348.03 W	1349.15@	267.67	1.95
8745.00	90.75	268.20	7539.86	32.00	1380.16	55.91 S	1380.01 W	1381.14@	267.68	0.69
8776.00	89.60	269.39	7539.77	31.00	1411.15	56.56 S	1411.00 W	1412.14@	267.70	5.34
8807.00	89.43	269.55	7540.03	31.00	1442.15	56.85 S	1442.00 W	1443.12@	267.74	0.75
8837.00	89.52	269.52	7540.30	30.00	1472.15	57.09 S	1472.00 W	1473.10@	267.78	0.32
8868.00	89.60	269.82	7540.54	31.00	1503.15	57.27 S	1503.00 W	1504.09@	267.82	1.00
8899.00	89.34	269.65	7540.83	31.00	1534.15	57.42 S	1533.99 W	1535.07@	267.86	1.00
8931.00	89.25	269.45	7541.22	32.00	1566.15	57.67 S	1565.99 W	1567.05@	267.89	0.68
8962.00	89.16	269.36	7541.65	31.00	1597.14	57.99 S	1596.99 W	1598.04@	267.92	0.41
8993.00	89.16	268.95	7542.11	31.00	1628.14	58.45 S	1627.98 W	1629.03@	267.94	1.32
9024.00	89.25	269.21	7542.54	31.00	1659.13	58.94 S	1658.97 W	1660.02@	267.97	0.89
9055.00	90.48	269.41	7542.61	31.00	1690.13	59.32 S	1689.97 W	1691.01@	267.99	4.02
9087.00	90.84	269.42	7542.24	32.00	1722.13	59.64 S	1721.97 W	1723.00@	268.02	1.12
9118.00	91.10	269.14	7541.72	31.00	1753.12	60.03 S	1752.96 W	1753.99@	268.04	1.23
9149.00	91.19	268.97	7541.10	31.00	1784.11	60.55 S	1783.95 W	1784.98@	268.06	0.62
9180.00	91.45	268.92	7540.38	31.00	1815.10	61.12 S	1814.93 W	1815.96@	268.07	0.85
9212.00	91.63	269.34	7539.52	32.00	1847.08	61.60 S	1846.92 W	1847.95@	268.09	1.43
9243.00	91.63	269.15	7538.64	31.00	1878.07	62.01 S	1877.90 W	1878.93@	268.11	0.61
9274.00	91.80	268.86	7537.71	31.00	1909.05	62.55 S	1908.88 W	1909.91@	268.12	1.08
9306.00	91.80	269.12	7536.71	32.00	1941.03	63.11 S	1940.86 W	1941.89@	268.14	0.81
9337.00	91.80	268.82	7535.73	31.00	1972.01	63.67 S	1971.84 W	1972.87@	268.15	0.97
9368.00	91.71	268.67	7534.78	31.00	2002.99	64.35 S	2002.82 W	2003.86@	268.16	0.56
9399.00	91.63	268.52	7533.88	31.00	2033.97	65.11 S	2033.80 W	2034.84@	268.17	0.55
9431.00	91.63	268.38	7532.97	32.00	2065.95	65.97 S	2065.78 W	2066.83@	268.17	0.44

PathFinder Energy Services, Inc.

Survey Report

OGX RESOURCES LLC.
COOPER 31 FEDERAL #1
EDDY COUNTY, N.M.
RIG:JW #5

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)
9462.00	91.54	268.39	7532.11	31.00	2096.93	66.85 S	2096.75 W	2097.82@	268.17	0.29
9494.00	91.63	268.07	7531.23	32.00	2128.90	67.83 S	2128.72 W	2129.80@	268.17	1.04
9525.00	91.71	268.03	7530.32	31.00	2159.88	68.89 S	2159.69 W	2160.79@	268.17	0.29
9556.00	91.71	268.21	7529.40	31.00	2190.85	69.90 S	2190.66 W	2191.78@	268.17	0.58
9588.00	91.89	267.96	7528.39	32.00	2222.82	70.97 S	2222.63 W	2223.76@	268.17	0.96
9620.00	91.89	268.50	7527.34	32.00	2254.79	71.96 S	2254.60 W	2255.74@	268.17	1.69
9651.00	91.98	268.41	7526.29	31.00	2285.76	72.80 S	2285.57 W	2286.73@	268.18	0.41
9682.00	92.07	268.38	7525.20	31.00	2316.73	73.66 S	2316.53 W	2317.71@	268.18	0.31
9714.00	92.24	267.98	7523.99	32.00	2348.70	74.68 S	2348.50 W	2349.68@	268.18	1.36
9745.00	92.33	267.88	7522.76	31.00	2379.65	75.80 S	2379.45 W	2380.66@	268.18	0.43
9776.00	92.51	268.02	7521.45	31.00	2410.61	76.91 S	2410.40 W	2411.63@	268.17	0.74
9807.00	92.42	267.67	7520.12	31.00	2441.56	78.07 S	2441.35 W	2442.60@	268.17	1.16
9838.00	92.59	267.80	7518.76	31.00	2472.51	79.30 S	2472.30 W	2473.57@	268.16	0.69
9870.00	92.77	267.33	7517.26	32.00	2504.45	80.65 S	2504.24 W	2505.53@	268.16	1.57
9901.00	91.36	267.56	7516.15	31.00	2535.40	82.03 S	2535.18 W	2536.51@	268.15	4.61
9932.00	90.92	267.63	7515.53	31.00	2566.37	83.34 S	2566.15 W	2567.50@	268.14	1.44
9964.00	91.01	267.44	7514.99	32.00	2598.34	84.71 S	2598.12 W	2599.50@	268.13	0.66
9995.00	90.92	267.37	7514.47	31.00	2629.31	86.11 S	2629.08 W	2630.49@	268.12	0.37
10026.00	91.19	267.50	7513.90	31.00	2660.28	87.50 S	2660.04 W	2661.48@	268.12	0.97
10058.00	89.78	267.90	7513.63	32.00	2692.25	88.79 S	2692.02 W	2693.48@	268.11	4.58
10089.00	89.34	267.66	7513.87	31.00	2723.23	89.99 S	2722.99 W	2724.48@	268.11	1.62
10120.00	89.25	267.63	7514.25	31.00	2754.21	91.26 S	2753.96 W	2755.47@	268.10	0.31
10183.00	89.60	267.22	7514.88	63.00	2817.15	94.09 S	2816.90 W	2818.47@	268.09	0.86
10214.00	89.52	267.43	7515.12	31.00	2848.12	95.54 S	2847.86 W	2849.46@	268.08	0.72
10246.00	89.52	267.52	7515.39	32.00	2880.09	96.95 S	2879.83 W	2881.46@	268.07	0.28
10277.00	89.52	267.20	7515.65	31.00	2911.06	98.37 S	2910.80 W	2912.46@	268.06	1.03

PathFinder Energy Services, Inc.

Survey Report

OGX RESOURCES LLC.
COOPER 31 FEDERAL #1
EDDY COUNTY, N.M.
RIG:JW #5

Page 05/05

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)
10373.00	90.13	266.96	7515.94	96.00	3006.95	103.27 S	3006.67 W	3008.44@	268.03	0.68
10402.00	90.31	266.72	7515.83	29.00	3035.91	104.86 S	3035.62 W	3037.44@	268.02	1.03
10433.00	90.57	266.85	7515.59	31.00	3066.86	106.60 S	3066.57 W	3068.43@	268.01	0.94
10465.00	90.92	266.95	7515.17	32.00	3098.82	108.33 S	3098.53 W	3100.42@	268.00	1.14
10496.00	91.19	267.01	7514.60	31.00	3129.77	109.97 S	3129.48 W	3131.41@	267.99	0.89
10527.00	91.36	267.30	7513.91	31.00	3160.73	111.50 S	3160.43 W	3162.40@	267.98	1.08
10559.00	91.54	267.19	7513.10	32.00	3192.69	113.04 S	3192.38 W	3194.38@	267.97	0.66
10590.00	91.80	267.38	7512.20	31.00	3223.64	114.51 S	3223.34 W	3225.37@	267.97	1.04
10622.00	92.07	267.24	7511.12	32.00	3255.59	116.01 S	3255.28 W	3257.35@	267.96	0.95
10653.00	92.33	267.26	7509.93	31.00	3286.54	117.50 S	3286.22 W	3288.32@	267.95	0.84
10684.00	92.59	266.71	7508.60	31.00	3317.47	119.13 S	3317.15 W	3319.29@	267.94	1.96
10715.00	92.95	267.02	7507.10	31.00	3348.39	120.82 S	3348.07 W	3350.25@	267.93	1.53
10747.00	93.39	267.02	7505.33	32.00	3380.31	122.48 S	3379.98 W	3382.20@	267.92	1.37
10778.00	93.83	267.32	7503.38	31.00	3411.21	124.01 S	3410.88 W	3413.13@	267.92	1.72
PROJECTION TO BIT @ 10885' MD.										
10885.00	93.83	267.32	7496.23	107.00	3517.87	129.00 S	3517.52 W	3519.89@	267.90	0.00

PATHFINDER

ENERGY SERVICES

TIE-IN SURVEY INFORMATION SHEET

CLIENT INFORMATION

CLIENT:	OGX RESOURCES LLC.		
LEASE / WELL No.:	COOPER 31 FEDERAL	#1	
WELL LOCATION:	EDDY COUNTY		
COUNTY / STATE / COUNTRY:	EDDY	N.M.	U.S.A.
RIG:	JW # 5		
API WELL No:	30-015-36282		
JOB No:	101007581-WT-WT		
P.O. / AFE No.	0125-000 1245-000		
DIRECTIONAL COMPANY:	PATHFINDER ENERGY		

WELL SITE INFORMATION

MAGNETIC DECLINATION:			
On Wall Plat:	LWD Calculated:	7.954792	Agreed Upon: 7.954792
X = 639273.120000	Feet	Y = 397289.970000	Feet
SITE LATITUDE: 32.091835 N	SITE LONGITUDE: 104.017085 W		
GRID SYSTEM: TRUE ☐ UTM ☐ LAMBERT ☒	ZONE: NEW MEXICO EAST		
PROPOSED DRIFT DIRECTION:	269.84		
KELLY BUSHING ELEVATION:	18		
ALTITUDE: 2976	Feet	WATER DEPTH: 0	Feet

TIE-IN SURVEY

MEASURED DEPTH:	7100
DRIFT ANGLE:	1.8
DRIFT DIRECTION:	297.38
TRUE VERTICAL DEPTH:	7098.79
VERTICAL SECTION:	51.23
RECTANGULAR COORDINATE (N / S):	-43.63
RECTANGULAR COORDINATE (E / W):	32.59
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: 7122.54	TOTAL DEPTH: 11678.15
KICKOFF ANGLE: 0	MAX ANGLE: 90

PES Engineers:

J.C. Fallin

**Signature of both field engineers required if applicable

Directional Driller:

Larry Masters

DATE: *6/27/08*

PathFinder Energy Services, Inc.

Magnetic & Grid Calculations

OGX RESOURCES
COOPER 31 FED #1
EDDY COUNTY, NM
Rig:JW 5

Wed Jun 18 09:22:11 2008

Coordinates

Latitude: 32.091835 N (32 deg. 5 min. 30.6056 sec.)
Longitude: 104.017085 W (-104 deg. 1 min. 1.5056 sec.)
Elevation: 2976.00 feet.
Calculation Date: Jun/18/2008

Magnetic Calculations

Model: IGRF2005
Dip Angle: 60.0696 degrees
Total Magnetic Field: 0.48813 gauss
Magnetic Declination: 8.122809 degrees
Horizontal Intensity: 0.243550 gauss
To Convert a Magnetic Dir. to a TRUE North Dir. Add 8.122809 Degr

Transverse Mercator Grid Calculations NAD83

Grid System: Transverse Mercator: new mexico east
Ellipsoid: GRS80
X: 639273.1200 feet
Y: 397289.9700 feet
True to Grid: (convergence) -0.168017 degrees
Magnetic to Grid: 7.954792 degrees
To Convert a Magnetic Dir. to a GRID dir. Add 7.954792 Degr.

PathFinder Energy Services, Inc. Magnetic & Grid Calculations

Fri Jun 27 08:49:41 2008

Coordinates

Latitude: 32.091835 N (32 deg. 5 min. 30.6056 sec.)
Longitude: 104.017085 W (-104 deg. 1 min. 1.5056 sec.)
Elevation: 2976.00 feet.
Calculation Date: Jun/27/2008

Magnetic Calculations

Model: IGRF2005
Dip Angle: 60.0691 degrees
Total Magnetic Field: 0.48810 gauss
Magnetic Declination: 8.119900 degrees
Horizontal Intensity: 0.243542 gauss
To Convert a Magnetic Dir. to a TRUE North Dir. Add 8.119900 Degr

Transverse Mercator Grid Calculations NAD83

Grid System: Transverse Mercator: new mexico east
Ellipsoid: GRS80
X: 639273.1200 feet
Y: 397289.9700 feet
True to Grid: (convergence) -0.168017 degrees
Magnetic to Grid: 7.951883 degrees
To Convert a Magnetic Dir. to a GRID dir. Add 7.951883 Degr.