

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTSEP - 8 2008
OCD-ARTESIAFORM 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 797023a. 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
05/25/200815. Date T D Reached
07/13/200816 Date Completed 08/08/2008
☐ D & A ☒ Ready to Prod5. Lease Serial No
NM 100555

6 If Indian, Allottee or Tribe Name

7 Unit or CA Agreement Name and No

8 Lease Name and Well No
Cooper 31 Federal, Well #19 AFI Well No
30 015 3628210 Field and Pool or Exploratory
ROCK SPUR; BONE SPRING11 Sec, T, R, M., on Block and
Survey or Area Sec 31, T25S, R29E12 County or Parish
EDDY COUNTY13 State
NM18 Total Depth MD 10,885'
TVD 7925'19 Plug Back T D MD 10,848'
TVD20 Depth Bridge Plug Set MD
TVD21 Type Electric & Other Mechanical Logs Run (Submit copy of each)
GR/CCL/CBL22 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)

✓ 12/10

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

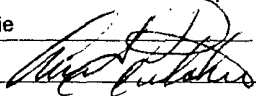
Formation	Top	Bottom	Descriptions, Contents, etc	Name	Top
					Meas Depth
				Lamar Lime	2830'
				Ramsey	2871'
				Cherry Canyon	3703'
				Brushy Canyon	4966'
				Bone Spring	6570'

32. Additional remarks (include plugging procedure)

33. 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

34. 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

Title 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)

July 16, 2008

OGX RESOURCES, LLC
P.O. BOX 2064
Midland, TX 76702

RE: OGX RESOURCES, LLC.
COOPER 31 FEDERAL #1
EDDY COUNTY, NM
RIG: JW #5
FIELD: ROCK SPUR; BONE SPRING
PES FILE NO.: 101007581-NM-NM

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,



CODY MEBANE
M/LWD Service Coordinator
PathFinder Energy Services

ML:sh



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

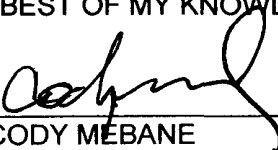
DIRECTIONAL SURVEY COMPANY REPORT:

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

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

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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)
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

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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)
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

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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)
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.

DISTRICT I
1625 N. French Dr., Hobbs, NM 88240

DISTRICT II
1301 W. Grand Avenue, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87506

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised October 12, 2005

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code 52775	Pool Name Rock Spur; Bone Spring
Property Code	Property Name COOPER "31" FEDERAL	Well Number 1
OGRID No. 317955	Operator Name OGX RESOURCES, L.L.C.	Elevation 2976'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	31	25 S	29 E		660	NORTH	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

Dedicated Acres 40	Joint or Infill	Consolidation Code	Order No.
------------------------------	-----------------	--------------------	-----------

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

LAT- N.: 32°05'30.61" LONG- W.: 104°01'01.51" SPC- N.: 397289.97 E.: 639273.12 (NAD-83)	2965.7' - 2977.1' 660' 2973.6' - 2961.1'	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. Angela Lightner 1-11-08 Signature Date Angela Lightner Printed Name
		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. DECEMBER 28, 2007 Date Surveyed Signature of Professional Surveyor W. Gary L. Jones
		7977
		Certificate No. Gary L. Jones 7977 BASIN SURVEYS

ATS-08-239

APR 11 2008

OCD-ARTESIA

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Form 3160-3
(April 2004)

OCD-ARTESIA

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED
OMB No. 1004-0137
Expires March 31, 2007

1a. Type of work: ☒ DRILL ☐ REENTER		5. Lease Serial No. NM 100555
1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other ☒ Single Zone ☐ Multiple Zone		6. If Indian, Allottee or Tribe Name N/A
2. Name of Operator OGX Resources, LLC		7. If Unit or CA Agreement, Name and No. N/A
3a. Address POB 2064 Midland, TX 79702		8. Lease Name and Well No. Cooper Federal #1 37127
3b. Phone No. (include area code) 432-685-1287		9. API Well No. 30-015-36282
4. Location of Well (Report location clearly and in accordance with any State requirements *) At surface 660' FNL & 660' FEL At proposed prod. zone A		10. Field and Pool, or Exploratory Rock Spur; Bone Spring
14. Distance in miles and direction from nearest town or post office* 16 miles southeast of Malaga, NM		11. Sec., T. R. M. or Blk. and Survey or Area Sec. 31, T-25S, R-29E
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 660'	16. No. of acres in lease 40	17. Spacing Unit dedicated to this well Northeast 1/4 1/4 of Section 31
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. N/A	19. Proposed Depth 2000' 9500' per Sunday Unit 41518	20. BLM/BIA Bond No. on file NMB 000244
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 2976' GL	22. Approximate date work will start* 02/15/2008	23. Estimated duration 30 days

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

- | | |
|---|--|
| 1. Well plat certified by a registered surveyor. | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan. | 5. Operator certification |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the authorized officer. |

25. Signature <i>Angela Lightner</i>	Name (Printed/Typed) Angela Lightner angela@rkford.com	Date 01/11/2008
Title Consultant 432-682-0440 office		

Approved by (Signature) <i>/s/ Don Peterson</i>	Name (Printed/Typed) Don Peterson	Date APR 09 2008
Title FOR FIELD MANAGER		Office CARLSBAD FIELD OFFICE

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

APPROVAL FOR TWO YEARS

Title 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.

*(Instructions on page 2)

If earthen pits are used in association with the drilling of this well, an OCD pit permit must be obtained prior to pit construction.

CARLSBAD CONTROLLED WATER BASIN

SEE ATTACHED FOR
CONDITIONS OF APPROVALAPPROVAL SUBJECT TO
GENERAL REQUIREMENTS
AND SPECIAL STIPULATIONS
ATTACHED