

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD-ARTESIA

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

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE- Other instructions on reverse side.

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other2. Name of Operator **OGX Resources, LLC 217955**3a. Address
P.O. Box 2064, Midland, TX 797023b. Phone No. (include area code)
432 68463814. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Section 31, T25S, R29E
Surface 660 FSL & 660 FEL; MD 660' FSL & 330' FWL

5. Lease Serial No.

NMNM100555

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.

Cooper 31 Federal, Well #2H

9. API Well No.

30 015 36755

10. Field and Pool, or Exploratory Area
Rock Spur; Bone Spring 52776

11. County or Parish, State

Eddy County, New Mexico

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☒ Production (Start/Resume)	☐ Water Shut-Off
☒ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other TD/Casing/ Rig Release/ Production
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

06/20/2010: Reached total depth, 11,368'. Ran 5 1/2", 17#, L-110 casing to 11,298' and cemented with 1800 sx C1 H cement, 1.6/1.3 slurry. Temperature survey showed top of cement at 2640'. Rig released. Clean up and rentals released.

7/20/2010: Moved in wireline; 7-20-2010 to 7/30/2010 perf, frac, drill out each interval. 7380-7700; 7890-8170'; 8350-8670'; 8840-9160'; 9340-9660'; 9830-10,145'; 10,338'-10,650'; 10,830-11,150' - 41 holes each.

08/01/2010: Opened well 30/64" choke. Gas to sales - Southern Union, OGI, Marketing - oil.

08/19/2010: Potential test 332 bbls oil; 2268 mcf gas and 1092 bbls water.

RECEIVED
SEP 29 2010
NMOCD ARTESIA

ACCEPTED FOR RECORD

SEP 27 2010

BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE14. I hereby certify that the foregoing is true and correct
Name (Printed/Typed)

Ann E. Ritchie

Title Regulatory Agent

Signature

Date

09/01/2010

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Conditions of approval, if any, are attached. Approval of this notice 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.

Title

Date

Office

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)



An Operating Unit of Smith International, Inc.

RECEIVED

NOV 03 2010
HOBBSOCD

DIRECTIONAL SURVEY REPORT

30-015-36755

OGX RESOURCES

COOPER 31 FEDERAL #2H

30 015 36755

EDDY COUNTY, NEW MEXICO

PREPARED BY: FRANCISCO SINISTERRA

Pathfinder Energy Services, Inc.
6213 W. Interstate 20 • Midland, TX • 79706
(432) 681-6000

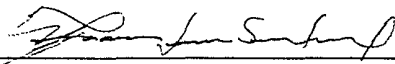
DIRECTIONAL SURVEY COMPANY REPORT:

1. NAME OF SURVEYING COMPANY: PATHFINDER ENERGY SERVICES
2. NAME OF PERSON(S) PERFORMING SURVEY:
A) DEREK BOYD
3. POSITION OF SAID PERSON(S): (A-F) SURVEYORS (FIELD ENGINEERS)
4. DATE(S) ON WHICH SURVEY WAS PERFORMED: 06-11-10 TO 06-18-10
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
COOPER 31 FEDERAL #2H
EDDY COUNTY, NM
RIG: SILVER OAK #6

9. SURVEY CERTIFIED FROM: 6679 TO 11223 FEET MEASURED DEPTH.

THIS IS TO VERIFY THAT ATTACHED DOCUMENTS SHOWING THE WELL TO BE DISPLACED AT 4297.56 FEET ON A BEARING OF 269.76 DEGREES FROM THE CENTER OF THE ROTARY TABLE AT A PROJECTED BIT DEPTH OF 11300 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: 06/13/2010
Date Completed: 06/18/2010

OGX RESOURCES, LLC.
COOPER 31 FEDERAL #2H
EDDY COUNTY, NM
Rig: Silver Oak #8
PathFinder Office Supervisor: Francisco Sinisterra
PathFinder Field Engineers: Derek Boyd
Josh Sneed

Survey Horiz. Reference: WELLHEAD
Ref Coordinates: LAT: 32.4.50.7270 N LON: 104.1.1.7751 W
GRID Reference: NAD83 new mexico east Transverse Mercator
Ref GRID Coord: X: 639261.7560 Y: 393260.2240
North Aligned To: GRID NORTH
Total Magnetic Correction: 7.73° EAST TO GRID
Vertical Section Plane: 269.84
Survey Vert. Reference: 17.00' Kelly Bushing To Ground
Altitude: 2934.00' Ground To MSL

Measured Depth	11300.00	(feet)
Inclination	90.84	(deg)
Azimuth	269.47	(deg)
True Vertical Depth	7065.17	(feet)
Vertical Section	4297.55	(feet)
Survey X cord	634964.24	(feet)
Survey Y cord	393241.85	(feet)
Survey Lat	32.08074087 N	(deg)
Survey Lon	104.03103539 W	(deg)
Rectangular Corr. N/S	18.37 S	(feet)
Rectangular Corr. E/W	4297.52 W	(feet)
Closure Distance	4297.56	(feet)
Direction of Closure	269.76	(deg)
Dogleg Severity	0.00	(deg/100ft)

PathFinder Energy Services, Inc. Survey Report

OGX RESOURCES, LLC.
COOPER 31 FEDERAL #2H
EDDY COUNTY, NIM

Rig: Silver Oak #6
PathFinder Office Supervisor: Francisco Sinisterra
PathFinder Field Engineers: Derek Boyd
Josh Sneed

Survey Horiz. Reference: WELLHEAD
Ref Coordinates: LAT: 32.4507270 N LON: 104.117751 W
GRID Reference: NAD83 new Mexico east Transverse Mercator
Ref GRID Coord: X: 639261.7560 Y: 393260.2240
North Aligned To: GRID NORTH
Total Magnetic Correction: 7.73° EAST TO GRID
Vertical Section Plane: 289.84
Survey Vert. Reference: 17.00' Kelly Bushing To Ground
Altitude: 2934.00' Ground To MSL

Survey Calculations by RX5 V6.03A using Minimum Curvature

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft)	Closure Dist Dir (ft) (deg)	DLS (deg/100ft)
TIE IN TO SCIENTIFIC DRILLING GYRO @ 8620' MD.								
8620.00	0.91	157.25	6619.28	0.00				
THE FOLLOWING ARE PATHFINDER MWD SURVEYS:								
6679.00	0.79	150.29	6678.27	59.00	-14.93	19.84 S	24.87@ 142.93	0.00
					-15.32	20.63 S	25.72@ 143.30	0.27
6712.00	0.35	151.34	6711.27	33.00	-15.48	20.91 S	26.05@ 143.39	1.33
6743.00	2.02	268.59	6742.27	31.00	-14.97	21.01 S	25.83@ 144.41	7.10
6774.00	5.72	269.20	6773.19	31.00	-12.88	21.04 S	24.70@ 148.41	11.94
6805.00	9.67	267.45	6803.90	31.00	-8.73	21.18 S	22.93@ 157.45	12.76
6836.00	13.72	266.04	6834.25	31.00	-2.46	21.55 S	21.70@ 173.32	13.10
6868.00	17.50	264.90	6865.07	32.00	6.12	22.24 S	23.05@ 195.24	11.85
6899.00	21.10	263.93	6894.32	31.00	16.32	23.24 S	28.36@ 214.96	11.66
6930.00	24.53	264.63	6922.89	31.00	28.28	24.44 S	37.32@ 229.10	11.10
6961.00	28.05	265.43	6950.68	31.00	41.96	25.62 S	49.10@ 236.55	11.41
6992.00	31.30	266.74	6977.61	31.00	57.27	26.66 S	63.11@ 245.01	10.69
7023.00	35.17	267.97	7003.54	31.00	74.24	27.43 S	79.08@ 249.70	12.67
7054.00	39.66	268.41	7028.15	31.00	93.07	28.03 S	97.12@ 253.23	14.51
7085.00	44.58	268.41	7051.14	31.00	113.84	28.60 S	117.31@ 255.89	15.87
7117.00	49.51	268.24	7072.94	32.00	137.25	29.29 S	140.26@ 257.95	15.41
7148.00	54.26	268.33	7092.07	31.00	161.62	30.02 S	164.31@ 259.47	15.32
7179.00	59.36	269.91	7109.03	31.00	187.55	30.40 S	189.92@ 260.79	17.00
7210.00	64.54	271.23	7123.61	31.00	214.90	30.13 S	216.92@ 262.02	17.13
7241.00	69.82	272.37	7135.63	31.00	243.45	29.22 S	245.11@ 263.15	17.37
7273.00	75.53	272.19	7145.15	32.00	273.95	28.01 S	275.30@ 264.16	17.85
7304.00	80.28	272.02	7151.64	31.00	304.23	26.90 S	305.35@ 264.95	15.33
7335.00	83.01	271.67	7156.15	31.00	334.88	25.91 S	335.81@ 265.58	8.88
7367.00	84.24	271.58	7159.70	32.00	366.67	25.01 S	367.45@ 266.10	3.85
7398.00	86.17	271.58	7162.29	31.00	397.54	24.16 S	398.21@ 265.52	6.23

PathFinder Energy Services, Inc. Survey Report

OGX RESOURCES, LLC.
COOPER 31 FEDERAL #2H
EDDY COUNTY, NM
RIG: Silver Oak #6

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Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft)	Closure Dist Dir (ft) (deg)	DLS (dg/100ft)
7429.00	88.99	271.40	7183.60	31.00	428.50	23.35 S 428.44 W	429.07@ 266.88	9.12
7460.00	91.63	271.84	7183.43	31.00	459.48	22.47 S 459.42 W	459.97@ 267.20	8.63
7491.00	92.33	271.75	7182.36	31.00	490.45	21.50 S 490.39 W	490.86@ 267.49	2.28
7522.00	92.24	271.75	7181.13	31.00	521.40	20.58 S 521.35 W	521.75@ 267.74	0.29
7553.00	92.24	271.75	7159.92	31.00	552.36	19.81 S 552.31 W	552.66@ 267.97	0.00
7584.00	92.24	271.84	7158.70	31.00	583.32	18.64 S 583.27 W	583.57@ 268.17	0.29
7616.00	92.15	271.93	7157.48	32.00	615.28	17.59 S 615.23 W	615.48@ 268.36	0.40
7647.00	91.19	272.28	7156.57	31.00	646.24	18.45 S 646.20 W	646.41@ 268.54	3.30
7678.00	90.57	272.02	7156.10	31.00	677.21	15.29 S 677.17 W	677.34@ 268.71	2.17
7709.00	90.40	271.58	7155.84	31.00	708.19	14.31 S 708.15 W	708.30@ 268.84	1.52
7740.00	90.31	270.88	7155.64	31.00	739.18	13.65 S 739.15 W	739.27@ 268.94	2.28
7771.00	90.22	270.70	7155.50	31.00	770.18	13.22 S 770.14 W	770.26@ 269.02	0.65
7802.00	80.22	270.70	7155.38	31.00	801.17	12.84 S 801.14 W	801.24@ 269.08	0.00
7833.00	90.57	270.70	7155.17	31.00	832.17	12.46 S 832.14 W	832.23@ 269.14	1.13
7864.00	91.28	270.88	7154.67	31.00	863.16	12.04 S 863.13 W	863.21@ 269.20	2.36
7896.00	91.19	270.96	7153.98	32.00	895.15	11.52 S 895.12 W	895.19@ 269.26	0.38
7927.00	91.38	270.88	7153.29	31.00	926.13	11.03 S 926.11 W	926.17@ 269.32	0.61
7958.00	90.75	270.81	7152.72	31.00	957.12	10.82 S 957.10 W	957.16@ 269.36	2.15
7989.00	90.31	270.00	7152.43	31.00	988.12	10.46 S 988.10 W	988.15@ 269.39	2.43
8020.00	90.31	269.47	7152.26	31.00	1019.12	10.60 S 1019.10 W	1019.15@ 269.40	1.71
8052.00	91.54	269.29	7151.75	32.00	1051.12	10.95 S 1051.09 W	1051.15@ 269.40	3.88
8083.00	92.59	269.47	7150.63	31.00	1082.09	11.28 S 1082.07 W	1082.13@ 269.40	3.44
8114.00	92.86	269.47	7149.15	31.00	1113.06	11.57 S 1113.03 W	1113.09@ 269.40	0.87
8145.00	92.77	269.56	7147.63	31.00	1144.02	11.83 S 1143.99 W	1144.05@ 269.41	0.41
8176.00	92.68	269.38	7146.18	31.00	1174.98	12.12 S 1174.96 W	1175.02@ 269.41	0.65
8208.00	92.77	269.29	7144.64	32.00	1206.95	12.49 S 1206.92 W	1206.98@ 269.41	0.40
8239.00	92.77	269.47	7143.14	31.00	1237.91	12.82 S 1237.88 W	1237.95@ 269.41	0.58
8270.00	92.68	269.56	7141.67	31.00	1268.87	13.09 S 1268.84 W	1268.91@ 269.41	0.41
8301.00	91.80	269.73	7140.45	31.00	1299.85	13.28 S 1299.82 W	1299.89@ 269.41	2.89

PathFinder Energy Services, Inc. Survey Report

OGX RESOURCES, LLC.
COOPER 31 FEDERAL #2H
EDDY COUNTY, NM
RIG: Silver Oak #6

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Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft)	Closure Dist Dir (ft) (deg)	DLS (dg/100ft)
8332.00	91.71	269.91	7139.50	31.00	1330.84	13.37 S 1330.80 W	1330.87@ 269.42	0.65
8364.00	91.63	270.00	7138.57	32.00	1362.82	13.40 S 1362.79 W	1362.86@ 269.44	0.38
8395.00	91.45	269.84	7137.74	31.00	1393.81	13.50 S 1393.78 W	1393.84@ 269.45	1.30
8426.00	92.24	269.03	7136.74	31.00	1424.79	13.86 S 1424.76 W	1424.83@ 269.44	3.22
8457.00	92.51	268.68	7135.46	31.00	1455.78	14.48 S 1455.73 W	1455.80@ 269.43	1.43
8488.00	92.51	268.85	7134.10	31.00	1486.73	15.14 S 1486.69 W	1486.77@ 269.42	0.55
8519.00	92.68	268.76	7132.69	31.00	1517.69	15.79 S 1517.65 W	1517.73@ 269.40	0.62
8550.00	92.86	268.59	7131.20	31.00	1548.65	16.51 S 1548.61 W	1548.70@ 269.39	0.80
8581.00	92.95	268.59	7129.82	31.00	1579.60	17.27 S 1579.56 W	1579.65@ 269.37	0.29
8613.00	92.88	268.59	7128.00	32.00	1611.55	18.05 S 1611.51 W	1611.61@ 269.36	0.28
8644.00	91.63	268.94	7126.79	31.00	1642.52	18.72 S 1642.48 W	1642.58@ 269.35	4.12
8675.00	91.28	268.85	7126.00	31.00	1673.51	19.32 S 1673.46 W	1673.57@ 269.34	1.17
8706.00	91.28	269.20	7125.31	31.00	1704.50	19.85 S 1704.45 W	1704.56@ 269.33	1.13
8737.00	91.01	269.20	7124.69	31.00	1735.49	20.28 S 1735.44 W	1735.56@ 269.33	0.87
8768.00	91.01	269.38	7124.14	31.00	1766.48	20.66 S 1766.43 W	1766.55@ 269.33	0.58
8800.00	90.92	269.38	7123.60	32.00	1798.48	21.01 S 1798.42 W	1798.55@ 269.33	0.28
8831.00	91.10	269.29	7123.06	31.00	1829.47	21.37 S 1829.42 W	1829.54@ 269.33	0.65
8862.00	91.36	269.29	7122.39	31.00	1860.46	21.75 S 1860.41 W	1860.54@ 269.33	0.84
8893.00	91.36	269.47	7121.86	31.00	1891.45	22.09 S 1891.40 W	1891.53@ 269.33	0.58
8925.00	91.63	269.47	7120.82	32.00	1923.44	22.38 S 1923.39 W	1923.52@ 269.33	0.84
8956.00	91.71	269.38	7119.92	31.00	1954.43	22.69 S 1954.37 W	1954.50@ 269.33	0.39
8987.00	91.80	269.29	7118.97	31.00	1985.41	23.05 S 1985.35 W	1985.49@ 269.33	0.41
9018.00	92.07	269.29	7117.92	31.00	2016.39	23.44 S 2016.33 W	2016.47@ 269.33	0.87
9049.00	91.63	269.56	7116.92	31.00	2047.37	23.75 S 2047.32 W	2047.45@ 269.34	1.66
9080.00	91.63	269.82	7116.04	31.00	2078.36	23.92 S 2078.30 W	2078.44@ 269.34	0.84
9112.00	91.71	269.56	7115.11	32.00	2110.35	24.09 S 2110.29 W	2110.43@ 269.35	0.85
9143.00	91.01	270.00	7114.37	31.00	2141.34	24.21 S 2141.28 W	2141.42@ 269.35	2.67
9174.00	91.01	270.35	7113.83	31.00	2172.33	24.11 S 2172.27 W	2172.41@ 269.36	1.13
9205.00	91.19	269.73	7113.23	31.00	2203.33	24.09 S 2203.27 W	2203.40@ 269.37	2.08

PathFinder Energy Services, Inc. Survey Report

OGX RESOURCES, LLC.
COOPER 31 FEDERAL #2H
EDDY COUNTY, NM
RIG: Silver Oak #6

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Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft)	Closure Dist Dir (ft) (deg)	DLS (dg/100ft)
9236.00	91.28	269.82	7112.56	31.00	2234.32	24.21 S 2234.26 W	2234.39@ 269.38	0.41
9268.00	91.28	269.91	7111.85	32.00	2266.31	24.29 S 2266.25 W	2266.38@ 269.39	0.28
9289.00	91.19	270.08	7111.18	31.00	2297.30	24.29 S 2297.25 W	2297.37@ 269.39	0.62
9330.00	90.66	269.64	7110.68	31.00	2328.30	24.37 S 2328.24 W	2328.37@ 269.40	2.22
9361.00	90.04	269.91	7110.49	31.00	2359.30	24.49 S 2359.24 W	2359.37@ 269.41	2.18
9392.00	90.13	270.08	7110.44	31.00	2390.30	24.49 S 2390.24 W	2390.37@ 269.41	0.62
9424.00	90.84	270.61	7110.17	32.00	2422.30	24.30 S 2422.24 W	2422.36@ 269.43	2.77
9455.00	91.80	271.14	7109.46	31.00	2453.28	23.83 S 2453.23 W	2453.34@ 269.44	3.54
9486.00	91.98	271.14	7108.44	31.00	2484.26	23.21 S 2484.20 W	2484.31@ 269.46	0.58
9517.00	92.15	271.31	7107.32	31.00	2516.23	22.85 S 2516.18 W	2516.28@ 269.49	0.78
9548.00	92.24	271.05	7106.13	31.00	2546.20	21.91 S 2546.15 W	2546.24@ 269.51	0.89
9580.00	92.33	270.43	7104.86	32.00	2578.17	21.50 S 2578.12 W	2578.21@ 269.52	1.96
9611.00	92.24	269.47	7103.62	31.00	2609.14	21.52 S 2608.09 W	2609.18@ 269.53	3.11
9642.00	92.07	269.73	7102.45	31.00	2640.12	21.74 S 2640.07 W	2640.16@ 269.53	1.00
9673.00	91.45	270.26	7101.50	31.00	2671.11	21.74 S 2671.06 W	2671.14@ 269.53	2.63
9704.00	91.54	269.91	7100.69	31.00	2702.10	21.70 S 2702.05 W	2702.13@ 269.54	1.16
9735.00	91.10	269.91	7099.98	31.00	2733.09	21.75 S 2733.04 W	2733.12@ 269.54	1.42
9766.00	90.75	269.64	7099.48	31.00	2764.08	21.87 S 2764.03 W	2764.12@ 269.55	1.43
9797.00	90.75	269.82	7099.07	31.00	2795.08	22.01 S 2795.03 W	2795.12@ 269.55	0.58
9829.00	90.92	269.64	7098.81	32.00	2827.08	22.16 S 2827.03 W	2827.11@ 269.55	0.77
9860.00	91.71	269.82	7097.89	31.00	2858.07	22.31 S 2858.02 W	2858.10@ 269.55	2.61
9891.00	91.71	269.73	7096.97	31.00	2889.05	22.43 S 2889.00 W	2889.09@ 269.56	0.29
9922.00	91.45	269.56	7096.11	31.00	2920.04	22.62 S 2919.99 W	2920.08@ 269.56	1.00
9953.00	91.28	269.20	7095.38	31.00	2951.03	22.96 S 2950.98 W	2951.07@ 269.55	1.28
9984.00	91.28	269.20	7094.68	31.00	2982.02	23.39 S 2981.97 W	2982.06@ 269.55	0.00
10015.00	91.28	269.38	7093.89	31.00	3013.01	23.78 S 3012.96 W	3013.05@ 269.55	0.58
10045.00	91.54	269.47	7093.25	30.00	3043.00	24.08 S 3042.95 W	3043.04@ 269.55	0.92
10078.00	92.07	269.82	7092.21	33.00	3075.99	24.28 S 3075.93 W	3076.03@ 269.55	1.92
10109.00	92.24	270.17	7091.05	31.00	3106.96	24.28 S 3106.91 W	3107.00@ 269.55	1.25

PathFinder Energy Services, Inc. Survey Report

OGX RESOURCES, LLC.
COOPER 31 FEDERAL #2H
EDDY COUNTY, NM
RIG: Silver Oak #6

Page 05/06

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft)	Closure Dist Dir (ft) (deg)	DLS (dg/100ft)
10140.00	92.15	270.08	7089.86	31.00	3137.94	24.22 S 3137.89 W	3137.98@ 269.56	0.41
10172.00	91.45	270.52	7088.86	32.00	3169.92	24.05 S 3169.87 W	3169.96@ 269.57	2.58
10203.00	91.36	270.61	7088.10	31.00	3200.91	23.74 S 3200.86 W	3200.95@ 269.57	0.41
10234.00	91.54	271.05	7087.31	31.00	3231.90	23.29 S 3231.85 W	3231.93@ 269.59	1.53
10265.00	91.63	271.05	7086.45	31.00	3262.88	22.73 S 3262.83 W	3262.91@ 269.60	0.29
10296.00	91.45	270.79	7085.62	31.00	3293.86	22.23 S 3293.81 W	3293.89@ 269.61	1.02
10327.00	91.45	270.96	7084.84	31.00	3324.85	21.76 S 3324.80 W	3324.87@ 269.63	0.55
10358.00	91.54	270.70	7084.03	31.00	3355.83	21.31 S 3355.79 W	3355.85@ 269.64	0.89
10390.00	91.54	270.88	7083.17	32.00	3387.82	20.37 S 3387.77 W	3387.84@ 269.65	0.56
10421.00	91.54	271.05	7082.33	31.00	3418.80	20.34 S 3418.76 W	3418.82@ 269.66	0.55
10452.00	91.54	270.79	7081.50	31.00	3449.78	19.85 S 3449.74 W	3449.80@ 269.67	0.84
10483.00	91.63	270.88	7080.64	31.00	3480.77	19.39 S 3480.72 W	3480.78@ 269.68	0.41
10514.00	91.36	270.79	7079.83	31.00	3511.75	18.94 S 3511.71 W	3511.76@ 269.69	0.92
10545.00	91.54	270.88	7079.05	31.00	3542.74	18.49 S 3542.70 W	3542.75@ 269.70	0.65
10576.00	91.01	270.43	7078.36	31.00	3573.73	18.14 S 3573.69 W	3573.73@ 269.71	2.24
10607.00	91.28	270.79	7077.74	31.00	3604.72	17.81 S 3604.68 W	3604.72@ 269.72	1.45
10638.00	91.63	270.88	7076.95	31.00	3635.70	17.36 S 3635.67 W	3635.71@ 269.73	1.17
10670.00	91.36	270.88	7076.12	32.00	3667.69	16.86 S 3667.65 W	3667.69@ 269.74	0.84
10701.00	91.54	270.79	7075.33	31.00	3698.67	16.41 S 3698.64 W	3698.68@ 269.75	0.65
10732.00	91.19	270.79	7074.50	31.00	3729.66	15.99 S 3729.63 W	3729.66@ 269.75	1.13
10763.00	90.48	270.43	7074.14	31.00	3760.65	15.56 S 3760.62 W	3760.65@ 269.76	2.57
10794.00	90.22	270.43	7073.96	31.00	3791.65	15.42 S 3791.62 W	3791.65@ 269.77	0.84
10825.00	90.31	270.43	7073.81	31.00	3822.65	15.19 S 3822.62 W	3822.65@ 269.77	0.29
10857.00	91.19	270.00	7073.39	32.00	3854.64	15.07 S 3854.62 W	3854.65@ 269.78	3.06
10888.00	91.19	269.91	7072.75	31.00	3885.64	15.09 S 3885.61 W	3885.64@ 269.78	0.29
10919.00	91.19	270.00	7072.11	31.00	3916.63	15.12 S 3916.60 W	3916.63@ 269.78	0.29
10950.00	91.19	269.56	7071.46	31.00	3947.62	15.24 S 3947.60 W	3947.63@ 269.78	1.42
10981.00	91.19	269.73	7070.82	31.00	3978.62	15.43 S 3978.59 W	3978.62@ 269.78	0.55
11012.00	91.19	269.38	7070.17	31.00	4009.61	15.67 S 4009.58 W	4009.61@ 269.78	1.13

PathFinder Energy Services, Inc. Survey Report

OGX RESOURCES, LLC.
COOPER 31 FEDERAL #2H
EDDY COUNTY, NM
RIG: Silver Oak #8

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft)	Closure Dist Dir (ft) (deg)	DLS (dg/100ft)
11043.00	91.19	269.12	7069.53	31.00	4040.60	16.08 S 4040.57 W	4040.60@ 269.77	0.84
11074.00	91.10	269.03	7068.91	31.00	4071.59	16.58 S 4071.56 W	4071.60@ 269.77	0.41
11105.00	91.10	269.12	7068.32	31.00	4102.58	17.08 S 4102.55 W	4102.59@ 269.76	0.29
11136.00	90.92	270.00	7067.77	31.00	4133.58	17.32 S 4133.54 W	4133.58@ 269.76	2.90
11167.00	90.92	269.82	7067.27	31.00	4164.57	17.36 S 4164.54 W	4164.58@ 269.76	0.58
11198.00	91.10	269.73	7066.73	31.00	4195.57	17.49 S 4195.54 W	4195.57@ 269.76	0.65
11223.00	90.84	269.47	7066.30	25.00	4220.56	17.66 S 4220.53 W	4220.57@ 269.76	1.47
STRAIGHT-LINE PROJECTION TO BIT @ 11300' MD								
11300.00	90.84	269.47	7065.17	77.00	4297.55	18.37 S 4297.52 W	4297.56@ 269.76	0.00

PATHFINDER

ENERGY SERVICES

TIE-IN SURVEY INFORMATION SHEET

CLIENT INFORMATION

CLIENT:	OGX RESOURCES, LLC		
LEASE / WELL No.:	COOPER 31 FEDERAL	#2H	
WELL LOCATION:	EDDY COUNTY, NEW MEXICO		
COUNTY / STATE / COUNTRY:	EDDY	NM	USA
RIG:	SILVER OAK #6		
API WELL No:	30-015-36755		
JOB No:	101010701-WT-WT		
P.O. / AFE No.			
DIRECTIONAL COMPANY:	PATHFINDER ENERGY SERVICES		

WELL SITE INFORMATION

TOTAL MAGNETIC CORRECTION (TMC):			
On Wall Plat:	7.73°	LWD Calculated:	7.73°
		Agreed Upon:	7.73°
X =	639261.756000	Feet	Y = 393260.224000
			Feet
SITE LATITUDE:	32.080758N	SITE LONGITUDE:	104.017160W
GRID SYSTEM:	TRUE ☐ UTM ☒ LAMBERT ☐	ZONE:	NEW MEXICO EAST
PROPOSED DRIFT DIRECTION:	269.84		
KELLY BUSHING ELEVATION:	17		
ALTITUDE:	2934	Feet	WATER DEPTH: N/A
			Feet

TIE-IN SURVEY

MEASURED DEPTH:	6620		
DRIFT ANGLE:	0.91°		
DRIFT DIRECTION:	157.25°		
TRUE VERTICAL DEPTH:	6619.28		
VERTICAL SECTION:	-14.9		
RECTANGULAR COORDINATE (N / S):	-19.84		
RECTANGULAR COORDINATE (E / W):	14.99		
CLOSURE DISTANCE / DIRECTION:	24.87	142.94	
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

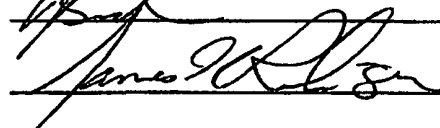
KICKOFF DEPTH:	6726.00' MD	TOTAL DEPTH:	11299.57' MD
KICKOFF ANGLE:	0.91°	MAX ANGLE:	91.48°

PES Engineers:



**Signature of both field engineers required if applicable

Directional Driller:



DATE: 6-11-10



Scientific Drilling

Gyroscopic Survey Report
for
OGX RESOURCES

Well Location	EDDY COUNTY, NEW MEXICO
Well Name	COOPER 31 FED 2H
Rig Name	SILVER OAK NO.6
Survey Date	6/11/2010
Latitude	32.08 deg
North Reference	Grid North
Grid Correction	-0.17 deg
Depth Reference	RKB
Calculation Method	Minimum Curvature
Section (VS) Ref	0.00N (ft), 0.00E (ft), 269.84Azim (deg)
Definitive Survey	FINAL GYRO SURVEY
Operator	ANGEL GUEBARA

Comments

17 FOOT KB



Survey Report

Well Name:		COOPER 31 FED 2H							
Survey:		FINAL GYRO SURVEY							
Survey Date:		6/11/2010							
MD	Inc	Azim	TVD	VS	Northing	Easting	DLS	Closure Distance	Closure Angle
ft	deg	deg	ft	ft	ft	ft	deg/100ft	ft	deg
0.00	0.00	0.00	0.00	0.00	0.00	0.00	Invalid	0.00	0.00
100.00	0.29	317.12	100.00	0.17	0.19	-0.17	0.29	0.25	317.12
200.00	0.43	309.70	200.00	0.63	0.61	-0.63	0.14	0.88	313.98
300.00	0.53	310.36	299.99	1.27	1.15	-1.27	0.11	1.71	312.07
400.00	0.56	314.94	399.99	1.96	1.79	-1.97	0.05	2.66	312.30
500.00	0.87	2.30	499.98	2.27	2.89	-2.28	0.64	3.68	321.75
600.00	0.99	12.03	599.97	2.06	4.50	-2.07	0.20	4.95	335.28
700.00	1.04	14.40	699.95	1.65	6.22	-1.66	0.07	6.44	345.01
800.00	1.11	20.30	799.94	1.08	8.00	-1.10	0.13	8.08	352.15
900.00	1.08	24.52	899.92	0.35	9.77	-0.38	0.08	9.78	357.80
1000.00	0.50	29.22	999.91	-0.26	11.01	0.23	0.59	11.01	1.19
1100.00	0.05	322.51	1099.91	-0.45	11.43	0.41	0.48	11.44	2.07
1200.00	0.22	335.33	1199.91	-0.34	11.84	0.31	0.17	11.84	1.51
1300.00	0.59	348.85	1299.90	-0.14	12.31	0.11	0.38	12.31	0.51
1400.00	0.41	349.33	1399.90	0.04	13.17	-0.08	0.18	13.17	359.67
1500.00	0.22	313.61	1499.90	0.24	13.66	-0.28	0.27	13.66	358.82
1600.00	0.24	306.28	1599.90	0.55	13.92	-0.59	0.04	13.93	357.58
1700.00	0.28	314.16	1699.90	0.89	14.21	-0.93	0.06	14.24	356.24
1800.00	0.45	335.71	1799.89	1.23	14.74	-1.27	0.21	14.80	355.07
1900.00	0.42	346.11	1899.89	1.48	15.46	-1.52	0.08	15.53	354.38
2000.00	0.67	332.34	1999.89	1.84	16.33	-1.88	0.28	16.44	353.43
2100.00	0.92	331.46	2099.88	2.49	17.56	-2.54	0.25	17.74	351.78
2200.00	0.50	341.99	2199.87	3.00	18.68	-3.06	0.44	18.93	350.71
2300.00	1.32	36.52	2299.86	2.45	20.02	-2.50	1.11	20.18	352.87
2400.00	1.32	36.42	2399.83	1.07	21.88	-1.13	0.00	21.91	357.04
2500.00	1.62	69.73	2499.80	-0.95	23.30	0.88	0.89	23.32	2.17
2600.00	1.75	76.01	2599.76	-3.78	24.16	3.69	0.23	24.44	8.69
2700.00	1.16	81.12	2699.72	-6.25	24.68	6.18	0.60	25.45	14.05
2800.00	0.66	93.86	2799.71	-7.83	24.80	7.76	0.54	25.99	17.37
2900.00	0.50	92.98	2899.71	-8.84	24.74	8.77	0.17	26.25	19.51
3000.00	0.44	95.11	2999.70	-9.65	24.68	9.58	0.06	26.48	21.21
3100.00	0.35	92.82	3099.70	-10.33	24.64	10.27	0.08	26.69	22.62
3200.00	0.36	95.72	3199.70	-10.95	24.59	10.88	0.02	26.89	23.87
3300.00	0.36	103.85	3299.70	-11.57	24.48	11.50	0.05	27.05	25.15
3400.00	0.37	116.29	3399.69	-12.16	24.26	12.09	0.08	27.11	26.49
3500.00	0.32	128.41	3499.69	-12.67	23.95	12.60	0.09	27.06	27.75
3600.00	0.34	133.02	3599.69	-13.10	23.57	13.04	0.03	26.94	28.95
3700.00	0.34	150.50	3699.69	-13.46	23.11	13.40	0.10	26.71	30.11
3800.00	0.35	168.99	3799.69	-13.67	22.55	13.61	0.11	26.33	31.11



Survey Report

Well Name: COOPER 31 FED 2H
Survey: FINAL GYRO SURVEY
Survey Date: 6/11/2010

MD ft	Inc deg	Azim deg	TVD ft	VS ft	Northing ft	Easting ft	DLS deg/100ft	Closure Distance ft	Closure Angle deg
3900.00	0.36	166.67	3899.68	-13.80	21.93	13.74	0.02	25.88	32.06
4000.00	0.37	165.94	3999.68	-13.95	21.31	13.89	0.01	25.44	33.09
4100.00	0.33	165.99	4099.68	-14.10	20.72	14.04	0.04	25.03	34.11
4200.00	0.32	192.54	4199.68	-14.10	20.17	14.05	0.15	24.58	34.85
4300.00	0.31	200.20	4299.68	-13.95	19.65	13.89	0.04	24.07	35.26
4400.00	0.42	204.74	4399.68	-13.70	19.07	13.65	0.11	23.45	35.59
4500.00	0.49	219.81	4499.67	-13.28	18.41	13.22	0.14	22.67	35.69
4600.00	0.53	215.90	4599.67	-12.73	17.71	12.68	0.05	21.79	35.60
4700.00	0.68	198.73	4699.66	-12.27	16.78	12.22	0.23	20.76	36.07
4800.00	0.78	196.82	4799.66	-11.88	15.58	11.84	0.10	19.56	37.24
4900.00	0.99	169.75	4899.64	-11.84	14.07	11.80	0.47	18.36	39.97
5000.00	1.31	165.92	4999.62	-12.26	12.11	12.23	0.32	17.21	45.28
5100.00	1.32	174.17	5099.60	-12.65	9.85	12.62	0.19	16.01	52.03
5200.00	1.35	178.31	5199.57	-12.80	7.53	12.78	0.10	14.83	59.50
5300.00	1.38	185.98	5299.54	-12.70	5.15	12.69	0.18	13.69	67.90
5400.00	1.26	194.28	5399.51	-12.30	2.89	12.29	0.23	12.63	76.76
5500.00	1.13	195.52	5499.49	-11.76	0.88	11.75	0.13	11.79	85.73
5600.00	0.96	187.60	5599.48	-11.38	-0.90	11.38	0.22	11.42	94.54
5700.00	0.87	187.50	5699.46	-11.16	-2.48	11.17	0.09	11.44	102.53
5800.00	0.97	179.47	5799.45	-11.07	-4.09	11.08	0.17	11.81	110.24
5900.00	1.09	178.58	5899.43	-11.09	-5.88	11.11	0.11	12.57	117.90
6000.00	1.12	173.55	5999.42	-11.22	-7.80	11.24	0.10	13.68	124.74
6100.00	1.11	171.94	6099.40	-11.46	-9.73	11.49	0.03	15.05	130.26
6200.00	1.05	167.91	6199.38	-11.79	-11.59	11.82	0.10	16.55	134.44
6300.00	1.28	166.38	6299.36	-12.23	-13.56	12.27	0.21	18.29	137.86
6400.00	1.32	162.99	6399.33	-12.82	-15.73	12.87	0.10	20.32	140.72
6500.00	1.38	148.76	6499.31	-13.78	-17.86	13.83	0.34	22.58	142.25
6600.00	0.90	149.69	6599.29	-14.79	-19.56	14.85	0.48	24.56	142.81
6620.00	0.91	157.25	6619.28	-14.93	-19.84	14.99	0.60	24.87	142.94

PathFinder Energy Services, Inc.

Magnetic & Grid Calculations

OGX RESOURCES, LLC
COOPER 31 FEDERAL #2H
EDDY COUNTY, NEW MEXICO
Rig: SILVER OAK 6

Wed Jun 09 17:50:15 2010

Coordinates

Latitude: 32.080758 N (32 deg. 4 min. 50.7270 sec.)
Longitude: 104.017160 W (-104 deg. 1 min. 1.7751 sec.)
Elevation: 2934.00 feet.
Calculation Date: Jun/09/2010

Magnetic Calculations

Model: IGRF2010
Dip Angle: 59.9994 degrees
Total Magnetic Field: 0.48584 gauss
Magnetic Declination: 7.901405 degrees
Horizontal Intensity: 0.242925 gauss
To Convert a Magnetic Dir. to a TRUE North Dir. Add 7.901405 Degs

Transverse Mercator Grid Calculations NAD83

Grid System: Transverse Mercator: new mexico east
Ellipsoid: GRS80
X: 639261.7560 feet
Y: 393260.2240 feet
True to Grid: (convergence) -0.167925 degrees
Magnetic to Grid: 7.733480 degrees
To Convert a Magnetic Dir. to a GRID dir. Add 7.733480 Degs.

PathFinder Energy Services, Inc.

Magnetic & Grid Calculations

**OGX RESOURCES, LLC.
COOPER 31 FEDERAL #2H
DELAWARE / MORROW, WILLOW LAKE**

Fri Jun 11 11:14:09 2010

Coordinates

Latitude: 32.080758 N (32 deg. 4 min. 50.7270 sec.)
Longitude: 104.017160 W (-104 deg. 1 min. 1.7751 sec.)
Elevation: 2951.00 feet.
Calculation Date: Jun/11/2010

Magnetic Calculations

Model: IGRF2010
Dip Angle: 59.9993 degrees
Total Magnetic Field: 0.48584 gauss
Magnetic Declination: 7.900734 degrees
Horizontal Intensity: 0.242923 gauss

To Convert a Magnetic Dir. to a TRUE North Dir. Add 7.900734 Degs

Transverse Mercator Grid Calculations NAD83

Grid System: Transverse Mercator: new mexico east
Ellipsoid: GRS80
X: 639261.7560 feet
Y: 393260.2240 feet
True to Grid: (convergence) -0.167925 degrees
Magnetic to Grid: 7.732808 degrees

To Convert a Magnetic Dir. to a GRID dir. Add 7.732808 Degs.