

3329 W. Pinhook Rd.
Lafayette, LA 70508
Tel. (337) 233-3982
Fax (337) 234-2988

30-025-39945

PATHFINDER
A Schlumberger Company

HOBBS OCD

JUN 08 2011

RECEIVED

DIRECTIONAL SURVEY REPORT

OGX RESOURCES, LLC

NLA STATE UNIT #1Y

LEA COUNTY, NM

PREPARED BY: PHIL LEBLANC

3329 W. Pinhook Rd.
Lafayette, LA 70508
Tel. (337) 233-3982
Fax (337) 234-2988



February 2, 2011

OGX RESOURCES, LLC
Mr. Bill Hardie
400 N. Marienfeld
Ste 200
Midland, TX 79701

RE: OGX RESOURCES, LLC
NLA STATE UNIT #1Y
LEA COUNTY, NM
RIG: SILVER OAK 11
API Well No.: 30-025-39945
PES Job No.: 700000671-GC-WT

Dear Mr. Brewer:

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 Directional Survey Report
2 – Directional 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 (337) 233-3982.

Sincerely,

A handwritten signature in black ink, appearing to read "Phil LeBlanc".

Phil LeBlanc
M/LWD Service Coordinator
PathFinder Energy Services

PL:ll

3329 W. Pinhook Rd.
Lafayette, LA 70508
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Fax (337) 234-2988



DIRECTIONAL SURVEY COMPANY REPORT:

1. NAME OF SURVEYING COMPANY: PATHFINDER ENERGY SERVICES
2. NAME OF PERSON(S) PERFORMING SURVEY:
 - A) PETE SENDEJO
 - B) CHARLIE JONES
 - C) JESUS BARAZZA
 - D) RICHY DELEON
 - E) SAM ABDELGHANI
3. POSITION OF SAID PERSON(S): (A-E) SURVEYORS (FIELD ENGINEERS)
4. DATE(S) ON WHICH SURVEY WAS PERFORMED: 12/05/10 TO 01/09/11
5. STATE IN WHICH SURVEY WAS PERFORMED: NEW MEXICO
6. LOCATION OF WELL: LEA COUNTY
7. TYPE OF SURVEY(S) PERFORMED: MWD
8. COMPLETE IDENTIFICATION OF WELL:

OGX RESOURCES, LLC
NLA STATE UNIT #1Y
LEA COUNTY, NM
RIG: SILVER OAK 11
API Well No.: 30-025-39945
9. SURVEY(S) CERTIFIED FROM: 7,830 TO 12,300 FEET MEASURED DEPTH.

THIS IS TO VERIFY THAT ATTACHED DOCUMENTS SHOWING THE WELL TO BE DISPLACED AT 4,134.59 FEET ON A BEARING OF 359.23 DEGREES FROM THE CENTER OF THE ROTARY TABLE AT A PROJECTED BIT DEPTH OF 12,300 FEET, ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.

A handwritten signature in black ink, appearing to read "Phil LeBlanc".

PHIL LEBLANC
M/LWD SERVICE COORDINATOR

PathFinder Energy Services, Inc.

BHL Report

Page 01/01
Tie-in Date: 12/05/2010
Date Completed: 01/09/2011

OGX RESOURCES, L.L.C.
NLA STATE UNIT #1Y
LEA COUNTY, NEW MEXICO
Rig: SILVER OAK 11

PathFinder Office Supervisor: PHIL LEBLANC
PathFinder Field Engineers: JESUS BARRAZA
PETE SENDEJO
CHARLIE JONES

Survey Horiz. Reference: WELLHEAD
Ref Coordinates: LAT: 33.31.36.9527 N LON: 103.36.49.6450 W
GRID Reference: NAD27 new mexico east Transverse Mercator
Ref GRID Coord: X: 719281.5800 Y: 919986.9200
North Aligned To: GRID NORTH
Total Magnetic Correction: 7.37° EAST TO GRID
Vertical Section Plane: 359.33
Survey Vert. Reference: 19.00' Kelly Bushing To Ground
Altitude: 4404.00' Ground To MSL

Measured Depth	12300.00	(feet)
Inclination	90.48	(deg)
Azimuth	0.24	(deg)
True Vertical Depth	8445.09	(feet)
Vertical Section	4134.58	(feet)
Survey X cord	719225.92	(feet)
Survey Y cord	924121.10	(feet)
Survey Lat	33.53829390 N	(deg)
Survey Lon	103.61387882 W	(deg)
Rectangular Corr. N/S	4134.21 N	(feet)
Rectangular Corr. E/W	55.64 W	(feet)
Closure Distance	4134.59	(feet)
Direction of Closure	359.23	(deg)
Dogleg Severity	0.00	(deg/100ft)

PathFinder Energy Services, Inc.

Survey Report

OGX RESOURCES, L.L.C.
NLA STATE UNIT #1Y
LEA COUNTY, NEW MEXICO
Rig: SILVER OAK 11

PathFinder Office Supervisor: PHIL LEBLANC
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PETE SENDEJO
CHARLIE JONES

RICKY DELEON
SAM ABDELGHANI

Survey Calculations by RX4 using Minimum Curvature

Survey Horiz. Reference: WELLHEAD
Ref Coordinates: LAT: 33.31.36.9527 N LON: 103.36.49.6450 W
GRID Reference: NAD27 new mexico east Transverse Mercator
Ref GRID Coord: X: 719281.5800 Y: 919986.9200
North Aligned To: GRID NORTH
Total Magnetic Correction: 7.37° EAST TO GRID
Vertical Section Plane: 359.33
Survey Vert. Reference: 19.00' Kelly Bushing To Ground
Altitude: 4404.00' Ground To MSL

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft) (ft)	Survey Latitude (deg)	Survey Longitude (deg)	Closure Dist (ft)	Dir (deg)	DLS (dg/100ft)
THE FOLLOWING ARE SCIENTIFIC DRILLING GYROSCOPIC MULTI-SHOT SURVEYS.											
100.00	0.49	290.40	100.00	0.00	0.19	0.18 N 0.39 W	33.52693173 N	103.61379166 W	0.44@	295.05	0.00
200.00	0.25	257.45	199.99	100.00	0.30	0.29 N 1.01 W	33.52693202 N	103.61379367 W	1.05@	285.84	0.31
300.00	0.21	247.30	299.99	100.00	0.18	0.17 N 1.39 W	33.52693170 N	103.61379493 W	1.40@	276.89	0.06
400.00	0.15	214.56	399.99	100.00	0.01	0.01 S 1.63 W	33.52693121 N	103.61379573 W	1.63@	269.64	0.12
500.00	0.18	210.75	499.99	100.00	-0.23	0.25 S 1.79 W	33.52693055 N	103.61379624 W	1.81@	261.94	0.03
600.00	0.23	217.17	599.99	100.00	-0.52	0.55 S 1.99 W	33.52692974 N	103.61379691 W	2.06@	254.60	0.05
700.00	0.30	228.28	699.99	100.00	-0.86	0.88 S 2.31 W	33.52692883 N	103.61379796 W	2.47@	249.07	0.09
800.00	0.35	230.40	799.99	100.00	-1.22	1.25 S 2.74 W	33.52692782 N	103.61379938 W	3.01@	245.44	0.05
900.00	0.44	236.95	899.99	100.00	-1.62	1.66 S 3.29 W	33.52692672 N	103.61380122 W	3.69@	243.33	0.10
1000.00	0.39	249.07	999.98	100.00	-1.94	1.99 S 3.93 W	33.52692583 N	103.61380332 W	4.41@	243.21	0.10
1100.00	0.31	256.19	1099.98	100.00	-2.12	2.17 S 4.52 W	33.52692533 N	103.61380523 W	5.01@	244.31	0.09
1200.00	0.21	260.67	1199.98	100.00	-2.21	2.27 S 4.96 W	33.52692508 N	103.61380669 W	5.45@	245.43	0.10
1300.00	0.11	94.13	1299.98	100.00	-2.24	2.30 S 5.04 W	33.52692498 N	103.61380697 W	5.54@	245.46	0.32
1400.00	0.22	105.80	1399.98	100.00	-2.31	2.36 S 4.76 W	33.52692481 N	103.61380605 W	5.32@	243.62	0.12
1500.00	0.57	101.77	1499.98	100.00	-2.47	2.52 S 4.09 W	33.52692437 N	103.61380385 W	4.80@	238.41	0.35
1600.00	0.36	101.97	1599.97	100.00	-2.64	2.68 S 3.30 W	33.52692390 N	103.61380125 W	4.25@	230.87	0.21
1700.00	0.62	84.16	1699.97	100.00	-2.66	2.69 S 2.45 W	33.52692386 N	103.61379847 W	3.64@	222.32	0.30
1800.00	0.48	106.64	1799.97	100.00	-2.74	2.76 S 1.51 W	33.52692366 N	103.61379539 W	3.15@	208.74	0.25
1900.00	0.33	108.81	1899.96	100.00	-2.96	2.97 S 0.84 W	33.52692306 N	103.61379319 W	3.09@	195.76	0.15
2000.00	0.13	137.08	1999.96	100.00	-3.14	3.15 S 0.49 W	33.52692257 N	103.61379204 W	3.18@	188.82	0.22
2100.00	0.28	93.00	2099.96	100.00	-3.24	3.24 S 0.17 W	33.52692230 N	103.61379099 W	3.25@	182.95	0.21
2200.00	0.09	201.80	2199.96	100.00	-3.33	3.33 S 0.05 E	33.52692206 N	103.61379029 W	3.33@	179.18	0.32
2300.00	0.13	248.26	2299.96	100.00	-3.44	3.44 S 0.09 W	33.52692175 N	103.61379073 W	3.44@	181.44	0.09
2400.00	0.18	244.50	2399.96	100.00	-3.55	3.55 S 0.33 W	33.52692145 N	103.61379155 W	3.57@	185.37	0.05
2500.00	0.10	4.18	2499.96	100.00	-3.53	3.53 S 0.47 W	33.52692151 N	103.61379199 W	3.56@	187.57	0.25

PathFinder Energy Services, Inc.

Survey Report

OGX RESOURCES, L.L.C.
 NLA STATE UNIT #1Y
 LEA COUNTY, NEW MEXICO
 RIG: SILVER OAK 11

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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)		Survey Latitude (deg)	Survey Longitude (deg)	Closure Dist Dir (ft) (deg)	DLS (dg/100ft)
2600.00	0.19	86.46	2599.96	100.00	-3.43	3.44 S	0.30 W	33.52692177 N	103.61379142 W	3.45@ 184.95	0.20
2700.00	0.22	30.60	2699.96	100.00	-3.26	3.26 S	0.03 W	33.52692225 N	103.61379056 W	3.26@ 180.60	0.19
2800.00	0.21	1.51	2799.96	100.00	-2.91	2.91 S	0.07 E	33.52692321 N	103.61379021 W	2.91@ 178.66	0.11
2900.00	0.13	14.78	2899.96	100.00	-2.62	2.62 S	0.10 E	33.52692401 N	103.61379009 W	2.62@ 177.77	0.09
3000.00	0.34	358.51	2999.96	100.00	-2.21	2.21 S	0.12 E	33.52692513 N	103.61379001 W	2.22@ 176.81	0.22
3100.00	0.37	33.16	3099.96	100.00	-1.65	1.65 S	0.29 E	33.52692668 N	103.61378945 W	1.67@ 169.94	0.21
3200.00	0.20	73.75	3199.95	100.00	-1.33	1.33 S	0.64 E	33.52692755 N	103.61378831 W	1.47@ 154.38	0.25
3300.00	0.27	15.54	3299.95	100.00	-1.06	1.05 S	0.87 E	33.52692830 N	103.61378755 W	1.36@ 140.48	0.24
3400.00	0.13	76.17	3399.95	100.00	-0.81	0.80 S	1.04 E	33.52692900 N	103.61378697 W	1.31@ 127.46	0.24
3500.00	0.05	8.07	3499.95	100.00	-0.74	0.73 S	1.16 E	33.52692919 N	103.61378659 W	1.37@ 122.14	0.12
3600.00	0.16	105.29	3599.95	100.00	-0.74	0.72 S	1.30 E	33.52692921 N	103.61378613 W	1.48@ 119.04	0.17
3700.00	0.17	166.40	3699.95	100.00	-0.92	0.90 S	1.47 E	33.52692871 N	103.61378558 W	1.72@ 121.57	0.17
3800.00	0.47	199.68	3799.95	100.00	-1.45	1.43 S	1.36 E	33.52692725 N	103.61378593 W	1.98@ 136.39	0.34
3900.00	0.69	215.44	3899.95	100.00	-2.32	2.31 S	0.88 E	33.52692485 N	103.61378755 W	2.47@ 159.21	0.27
4000.00	1.03	221.69	3999.93	100.00	-3.47	3.47 S	0.07 W	33.52692167 N	103.61379068 W	3.47@ 181.16	0.35
4100.00	1.32	231.92	4099.91	100.00	-4.83	4.85 S	1.57 W	33.52691791 N	103.61379565 W	5.10@ 197.98	0.36
4200.00	1.25	233.13	4199.89	100.00	-6.18	6.22 S	3.35 W	33.52691419 N	103.61380152 W	7.06@ 208.35	0.08
4300.00	1.28	232.83	4299.86	100.00	-7.49	7.55 S	5.12 W	33.52691057 N	103.61380733 W	9.12@ 214.14	0.03
4400.00	1.31	239.30	4399.84	100.00	-8.72	8.80 S	6.99 W	33.52690715 N	103.61381350 W	11.24@ 218.45	0.15
4500.00	1.32	247.19	4499.81	100.00	-9.73	9.83 S	9.03 W	33.52690436 N	103.61382024 W	13.35@ 222.57	0.18
4600.00	1.18	253.84	4599.79	100.00	-10.44	10.57 S	11.08 W	33.52690238 N	103.61382698 W	15.32@ 226.37	0.20
4700.00	1.00	264.71	4699.77	100.00	-10.78	10.93 S	12.94 W	33.52690141 N	103.61383308 W	16.94@ 229.81	0.27
4800.00	0.92	269.22	4799.76	100.00	-10.85	11.03 S	14.61 W	33.52690119 N	103.61383857 W	18.31@ 232.97	0.11
4900.00	0.49	291.35	4899.75	100.00	-10.70	10.88 S	15.82 W	33.52690161 N	103.61384251 W	19.20@ 235.47	0.50
5000.00	0.35	312.65	4999.75	100.00	-10.33	10.52 S	16.44 W	33.52690262 N	103.61384454 W	19.52@ 237.39	0.21
5100.00	0.34	327.36	5099.74	100.00	-9.86	10.06 S	16.82 W	33.52690388 N	103.61384580 W	19.60@ 239.12	0.09

PathFinder Energy Services, Inc.

Survey Report

OGX RESOURCES, L.L.C.
 NLA STATE UNIT #1Y
 LEA COUNTY, NEW MEXICO
 RIG: SILVER OAK 11

Page 03/09

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft) (ft)		Survey Latitude (deg)	Survey Longitude (deg)	Closure Dist Dir (ft) (deg)	DLS (dg/100ft)
5200.00	0.22	348.78	5199.74	100.00	-9.42	9.62 S	17.02 W	33.52690509 N	103.61384643 W	19.55@ 240.52	0.16
5300.00	0.18	13.42	5299.74	100.00	-9.08	9.28 S	17.02 W	33.52690602 N	103.61384643 W	19.39@ 241.39	0.09
5400.00	0.15	31.09	5399.74	100.00	-8.82	9.02 S	16.92 W	33.52690675 N	103.61384608 W	19.17@ 241.94	0.06
5500.00	0.37	14.01	5499.74	100.00	-8.40	8.59 S	16.77 W	33.52690792 N	103.61384559 W	18.84@ 242.87	0.23
5600.00	0.27	46.47	5599.74	100.00	-7.92	8.12 S	16.52 W	33.52690922 N	103.61384477 W	18.41@ 243.84	0.20
5700.00	0.24	49.97	5699.74	100.00	-7.63	7.82 S	16.19 W	33.52691003 N	103.61384367 W	17.98@ 244.22	0.03
5800.00	0.17	50.69	5799.74	100.00	-7.40	7.59 S	15.92 W	33.52691065 N	103.61384276 W	17.63@ 244.50	0.07
5900.00	0.11	52.71	5899.74	100.00	-7.25	7.44 S	15.73 W	33.52691107 N	103.61384213 W	17.40@ 244.68	0.06
6000.00	0.05	345.68	5999.74	100.00	-7.15	7.34 S	15.66 W	33.52691134 N	103.61384192 W	17.29@ 244.89	0.10
6100.00	0.15	269.98	6099.74	100.00	-7.11	7.30 S	15.80 W	33.52691146 N	103.61384238 W	17.40@ 245.21	0.15
6200.00	0.08	42.23	6199.74	100.00	-7.06	7.24 S	15.89 W	33.52691160 N	103.61384265 W	17.46@ 245.48	0.21
6300.00	0.08	226.22	6299.74	100.00	-7.05	7.24 S	15.89 W	33.52691161 N	103.61384267 W	17.46@ 245.50	0.16
6400.00	0.19	340.31	6399.74	100.00	-6.95	7.13 S	15.99 W	33.52691191 N	103.61384301 W	17.51@ 245.96	0.23
6500.00	0.24	27.01	6499.74	100.00	-6.60	6.79 S	15.96 W	33.52691285 N	103.61384288 W	17.34@ 246.95	0.18
6600.00	0.20	34.40	6599.74	100.00	-6.28	6.46 S	15.76 W	33.52691376 N	103.61384223 W	17.03@ 247.71	0.05
6700.00	0.20	34.30	6699.74	100.00	-5.99	6.17 S	15.56 W	33.52691455 N	103.61384158 W	16.74@ 248.37	0.00
6800.00	0.24	51.03	6799.73	100.00	-5.72	5.90 S	15.30 W	33.52691530 N	103.61384072 W	16.40@ 248.93	0.08
6900.00	0.12	6.13	6899.73	100.00	-5.48	5.66 S	15.13 W	33.52691594 N	103.61384014 W	16.15@ 249.49	0.18
7000.00	0.16	39.97	6999.73	100.00	-5.27	5.45 S	15.03 W	33.52691652 N	103.61383980 W	15.99@ 250.07	0.09
7100.00	0.10	16.21	7099.73	100.00	-5.08	5.26 S	14.91 W	33.52691704 N	103.61383943 W	15.81@ 250.58	0.08
7200.00	0.16	359.83	7199.73	100.00	-4.86	5.03 S	14.89 W	33.52691766 N	103.61383934 W	15.72@ 251.32	0.07
7300.00	0.10	334.29	7299.73	100.00	-4.64	4.82 S	14.93 W	33.52691826 N	103.61383946 W	15.69@ 252.12	0.08
7400.00	0.21	228.72	7399.73	100.00	-4.68	4.86 S	15.10 W	33.52691815 N	103.61384004 W	15.87@ 252.17	0.25
7500.00	0.44	307.59	7499.73	100.00	-4.56	4.75 S	15.55 W	33.52691847 N	103.61384149 W	16.25@ 253.03	0.45
7600.00	0.53	345.72	7599.73	100.00	-3.88	4.06 S	15.96 W	33.52692035 N	103.61384284 W	16.47@ 255.72	0.33
7700.00	0.29	323.70	7699.73	100.00	-3.22	3.41 S	16.23 W	33.52692215 N	103.61384370 W	16.58@ 258.13	0.28

PathFinder Energy Services, Inc.

Survey Report

OGX RESOURCES, L.L.C.
NLA STATE UNIT #1Y
LEA COUNTY, NEW MEXICO
RIG: SILVER OAK 11

Page 04/09

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft)		Survey Latitude (deg)	Survey Longitude (deg)	Closure Dist (ft)	Dir (deg)	DLS (dg/100ft)
7800.00	0.62	294.00	7799.72	100.00	-2.79	2.99 S	16.87 W	33.52692332 N	103.61384580 W	17.14@	259.96	0.39
** TIED INTO SCIENTIFIC DRILLING GYROSCOPIC MULTI-SHOT SURVEYS AT 7830' MD.												
7830.00	0.65	320.22	7829.72	30.00	-2.59	2.79 S	17.13 W	33.52692387 N	103.61384664 W	17.36@	260.75	0.97
THE FOLLOWING ARE PATHFINDER MWD SURVEYS.												
7879.00	0.70	314.52	7878.72	49.00	-2.16	2.37 S	17.52 W	33.52692504 N	103.61384791 W	17.68@	262.31	0.17
7910.00	2.81	352.04	7909.70	31.00	-1.27	1.48 S	17.76 W	33.52692748 N	103.61384868 W	17.82@	265.23	7.40
7941.00	6.51	358.75	7940.59	31.00	1.24	1.03 N	17.91 W	33.52693438 N	103.61384909 W	17.93@	273.29	12.04
7972.00	10.20	1.16	7971.26	31.00	5.74	5.53 N	17.89 W	33.52694675 N	103.61384894 W	18.72@	287.18	11.95
8003.00	14.51	2.54	8001.53	31.00	12.36	12.16 N	17.66 W	33.52696496 N	103.61384804 W	21.44@	304.55	13.93
8034.00	19.08	2.04	8031.20	31.00	21.31	21.11 N	17.31 W	33.52698955 N	103.61384668 W	27.30@	320.65	14.75
8067.00	23.83	1.03	8061.91	33.00	33.37	33.17 N	17.00 W	33.52702269 N	103.61384538 W	37.27@	332.87	14.44
8098.00	28.14	359.31	8089.77	31.00	46.94	46.75 N	16.97 W	33.52706000 N	103.61384499 W	49.73@	340.05	14.11
8175.00	36.93	359.24	8154.62	77.00	88.31	88.12 N	17.50 W	33.52717370 N	103.61384577 W	89.84@	348.77	11.42
8207.00	40.80	359.67	8179.53	32.00	108.39	108.19 N	17.69 W	33.52722887 N	103.61384593 W	109.63@	350.72	12.12
8238.00	44.76	359.94	8202.28	31.00	129.44	129.24 N	17.76 W	33.52728673 N	103.61384568 W	130.45@	352.18	12.79
8270.00	47.48	0.62	8224.46	32.00	152.50	152.30 N	17.64 W	33.52735011 N	103.61384478 W	153.32@	353.39	8.64
8302.00	50.03	0.30	8245.55	32.00	176.55	176.36 N	17.45 W	33.52741622 N	103.61384360 W	177.22@	354.35	8.00
8333.00	52.50	359.75	8264.95	31.00	200.73	200.54 N	17.44 W	33.52748267 N	103.61384302 W	201.30@	355.03	8.09
8365.00	54.69	359.54	8283.94	32.00	226.48	226.29 N	17.60 W	33.52755344 N	103.61384296 W	226.98@	355.55	6.86
8397.00	56.72	359.56	8301.97	32.00	252.92	252.73 N	17.81 W	33.52762609 N	103.61384304 W	253.35@	355.97	6.34
8429.00	59.27	359.45	8318.93	32.00	280.05	279.86 N	18.04 W	33.52770067 N	103.61384320 W	280.44@	356.31	7.97
8461.00	61.03	359.38	8334.86	32.00	307.81	307.61 N	18.32 W	33.52777694 N	103.61384349 W	308.16@	356.59	5.50
8493.00	64.72	359.21	8349.44	32.00	336.28	336.09 N	18.68 W	33.52785520 N	103.61384400 W	336.60@	356.82	11.54
8525.00	69.56	359.31	8361.87	32.00	365.76	365.56 N	19.06 W	33.52793621 N	103.61384458 W	366.06@	357.02	15.13
8556.00	72.63	359.48	8371.91	31.00	395.08	394.88 N	19.37 W	33.52801680 N	103.61384492 W	395.36@	357.19	9.92
8588.00	75.71	359.70	8380.64	32.00	425.87	425.67 N	19.59 W	33.52810140 N	103.61384494 W	426.12@	357.37	9.65
8604.00	76.78	0.28	8384.45	16.00	441.41	441.21 N	19.59 W	33.52814411 N	103.61384460 W	441.64@	357.46	7.56

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8636.00	79.71	0.46	8390.97	32.00	472.73	472.53 N	19.39 W	33.52823019 N	103.61384322 W	472.93@	357.65	9.17
8667.00	83.10	0.16	8395.60	31.00	503.37	503.18 N	19.22 W	33.52831441 N	103.61384198 W	503.55@	357.81	10.98
8699.00	86.92	359.46	8398.38	32.00	535.24	535.05 N	19.33 W	33.52840200 N	103.61384160 W	535.40@	357.93	12.14
8731.00	89.22	359.59	8399.46	32.00	567.22	567.03 N	19.59 W	33.52848989 N	103.61384174 W	567.37@	358.02	7.20
8762.00	89.38	359.29	8399.84	31.00	598.22	598.03 N	19.89 W	33.52857508 N	103.61384203 W	598.36@	358.09	1.10
8793.00	87.82	358.65	8400.59	31.00	629.21	629.01 N	20.45 W	33.52866024 N	103.61384316 W	629.34@	358.14	5.44
8824.00	87.48	358.86	8401.86	31.00	660.18	659.98 N	21.12 W	33.52874536 N	103.61384466 W	660.31@	358.17	1.29
8856.00	87.31	359.08	8403.32	32.00	692.15	691.94 N	21.70 W	33.52883321 N	103.61384582 W	692.28@	358.20	0.87
8887.00	88.21	358.52	8404.53	31.00	723.12	722.91 N	22.35 W	33.52891833 N	103.61384724 W	723.25@	358.23	3.42
8919.00	89.05	358.32	8405.30	32.00	755.11	754.89 N	23.23 W	33.52900623 N	103.61384941 W	755.24@	358.24	2.70
8951.00	89.94	357.80	8405.58	32.00	787.10	786.87 N	24.31 W	33.52909414 N	103.61385223 W	787.24@	358.23	3.22
8983.00	90.17	357.79	8405.55	32.00	819.08	818.84 N	25.54 W	33.52918204 N	103.61385555 W	819.24@	358.21	0.72
9014.00	90.45	358.20	8405.38	31.00	850.08	849.82 N	26.63 W	33.52926720 N	103.61385840 W	850.24@	358.21	1.60
9046.00	89.22	358.98	8405.47	32.00	882.07	881.81 N	27.42 W	33.52935513 N	103.61386026 W	882.24@	358.22	4.55
9078.00	87.93	359.90	8406.27	32.00	914.06	913.80 N	27.73 W	33.52944304 N	103.61386055 W	914.22@	358.26	4.95
9110.00	87.99	359.94	8407.41	32.00	946.04	945.78 N	27.77 W	33.52953093 N	103.61385997 W	946.19@	358.32	0.23
9142.00	88.21	0.10	8408.47	32.00	978.02	977.76 N	27.76 W	33.52961882 N	103.61385921 W	978.16@	358.37	0.85
9173.00	88.38	0.25	8409.39	31.00	1009.00	1008.75 N	27.67 W	33.52970398 N	103.61385819 W	1009.13@	358.43	0.73
9205.00	88.71	0.84	8410.20	32.00	1040.98	1040.74 N	27.36 W	33.52979188 N	103.61385647 W	1041.10@	358.49	2.11
9237.00	89.16	1.42	8410.80	32.00	1072.96	1072.72 N	26.73 W	33.52987978 N	103.61385367 W	1073.06@	358.57	2.29
9268.00	89.78	1.49	8411.08	31.00	1103.94	1103.71 N	25.95 W	33.52996492 N	103.61385038 W	1104.02@	358.65	2.01
9300.00	90.00	1.23	8411.15	32.00	1135.92	1135.70 N	25.19 W	33.53005283 N	103.61384716 W	1135.98@	358.73	1.06
9332.00	89.66	0.15	8411.24	32.00	1167.91	1167.70 N	24.80 W	33.53014075 N	103.61384517 W	1167.96@	358.78	3.54
9363.00	89.66	359.99	8411.42	31.00	1198.91	1198.70 N	24.76 W	33.53022594 N	103.61384434 W	1198.95@	358.82	0.52
9395.00	89.78	0.35	8411.58	32.00	1230.90	1230.70 N	24.67 W	33.53031388 N	103.61384330 W	1230.95@	358.85	1.19
9426.00	90.00	0.73	8411.64	31.00	1261.90	1261.70 N	24.38 W	33.53039907 N	103.61384163 W	1261.93@	358.89	1.42

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9458.00	89.83	0.39	8411.69	32.00	1293.89	1293.70 N	24.06 W	33.53048700 N	103.61383988 W	1293.92@	358.93	1.19
9490.00	89.50	359.45	8411.87	32.00	1325.89	1325.69 N	24.11 W	33.53057494 N	103.61383930 W	1325.91@	358.96	3.11
9522.00	89.44	359.30	8412.17	32.00	1357.89	1357.69 N	24.46 W	33.53066288 N	103.61383971 W	1357.91@	358.97	0.50
9553.00	89.61	359.27	8412.43	31.00	1388.88	1388.69 N	24.84 W	33.53074807 N	103.61384028 W	1388.91@	358.98	0.56
9585.00	89.83	359.21	8412.58	32.00	1420.88	1420.69 N	25.27 W	33.53083602 N	103.61384094 W	1420.91@	358.98	0.71
9617.00	90.28	359.56	8412.55	32.00	1452.88	1452.68 N	25.61 W	33.53092396 N	103.61384134 W	1452.91@	358.99	1.78
9649.00	90.84	359.92	8412.24	32.00	1484.88	1484.68 N	25.76 W	33.53101190 N	103.61384109 W	1484.90@	359.01	2.08
9680.00	90.11	359.74	8411.98	31.00	1515.88	1515.68 N	25.85 W	33.53109709 N	103.61384068 W	1515.90@	359.02	2.43
9711.00	89.27	359.32	8412.15	31.00	1546.88	1546.68 N	26.10 W	33.53118228 N	103.61384081 W	1546.90@	359.03	3.03
9743.00	89.39	359.31	8412.53	32.00	1578.87	1578.67 N	26.49 W	33.53127022 N	103.61384134 W	1578.89@	359.04	0.38
9774.00	89.66	359.29	8412.78	31.00	1609.87	1609.67 N	26.86 W	33.53135541 N	103.61384188 W	1609.89@	359.04	0.87
9806.00	89.61	358.89	8412.99	32.00	1641.87	1641.67 N	27.37 W	33.53144335 N	103.61384282 W	1641.89@	359.04	1.26
9838.00	89.44	358.45	8413.25	32.00	1673.87	1673.65 N	28.11 W	33.53153128 N	103.61384453 W	1673.89@	359.04	1.47
9870.00	89.50	358.38	8413.55	32.00	1705.86	1705.64 N	29.00 W	33.53161920 N	103.61384670 W	1705.89@	359.03	0.29
9901.00	89.66	358.92	8413.77	31.00	1736.86	1736.63 N	29.73 W	33.53170438 N	103.61384839 W	1736.89@	359.02	1.82
9933.00	89.78	358.10	8413.93	32.00	1768.86	1768.62 N	30.56 W	33.53179231 N	103.61385039 W	1768.88@	359.01	2.59
9965.00	89.72	357.86	8414.07	32.00	1800.85	1800.60 N	31.69 W	33.53188022 N	103.61385337 W	1800.88@	358.99	0.77
10018.00	89.60	357.45	8414.39	53.00	1853.82	1853.55 N	33.86 W	33.53202579 N	103.61385928 W	1853.86@	358.95	0.81
10050.00	88.29	358.00	8414.97	32.00	1885.81	1885.52 N	35.13 W	33.53211367 N	103.61386272 W	1885.85@	358.93	4.44
10081.00	88.46	358.54	8415.85	31.00	1916.79	1916.50 N	36.06 W	33.53219881 N	103.61386508 W	1916.84@	358.92	1.82
10113.00	88.02	359.83	8416.84	32.00	1948.77	1948.48 N	36.52 W	33.53228671 N	103.61386585 W	1948.82@	358.93	4.26
10145.00	88.11	359.97	8417.92	32.00	1980.75	1980.46 N	36.58 W	33.53237460 N	103.61386530 W	1980.80@	358.94	0.52
10177.00	87.23	0.07	8419.22	32.00	2012.72	2012.43 N	36.56 W	33.53246247 N	103.61386454 W	2012.76@	358.96	2.77
10208.00	87.58	0.10	8420.62	31.00	2043.69	2043.40 N	36.52 W	33.53254757 N	103.61386368 W	2043.73@	358.98	1.13
10240.00	87.85	0.14	8421.90	32.00	2075.66	2075.37 N	36.45 W	33.53263544 N	103.61386273 W	2075.69@	358.99	0.85
10271.00	86.88	0.02	8423.32	31.00	2106.62	2106.34 N	36.41 W	33.53272055 N	103.61386189 W	2106.66@	359.01	3.15

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10302.00	87.23	0.29	8424.92	31.00	2137.58	2137.30 N 36.32 W	33.53280563 N	103.61386091 W	2137.61@ 359.03	1.43
10334.00	86.61	0.90	8426.63	32.00	2169.53	2169.25 N 35.99 W	33.53289343 N	103.61385909 W	2169.55@ 359.05	2.72
10366.00	86.88	1.47	8428.45	32.00	2201.46	2201.19 N 35.33 W	33.53298120 N	103.61385620 W	2201.48@ 359.08	1.97
10397.00	86.97	1.29	8430.11	31.00	2232.39	2232.14 N 34.59 W	33.53306623 N	103.61385305 W	2232.41@ 359.11	0.65
10429.00	86.61	0.90	8431.91	32.00	2264.33	2264.08 N 33.98 W	33.53315401 N	103.61385032 W	2264.34@ 359.14	1.66
10461.00	87.14	1.43	8433.65	32.00	2296.26	2296.03 N 33.33 W	33.53324179 N	103.61384746 W	2296.27@ 359.17	2.34
10493.00	87.67	2.06	8435.10	32.00	2328.20	2327.98 N 32.35 W	33.53332958 N	103.61384353 W	2328.21@ 359.20	2.57
10524.00	87.58	1.65	8436.38	31.00	2359.14	2358.94 N 31.35 W	33.53341463 N	103.61383954 W	2359.15@ 359.24	1.35
10556.00	87.23	1.08	8437.83	32.00	2391.09	2390.90 N 30.59 W	33.53350245 N	103.61383631 W	2391.09@ 359.27	2.09
10588.00	87.85	1.42	8439.21	32.00	2423.04	2422.86 N 29.89 W	33.53359027 N	103.61383330 W	2423.04@ 359.29	2.21
10619.00	87.58	1.54	8440.44	31.00	2454.00	2453.82 N 29.09 W	33.53367536 N	103.61382997 W	2454.00@ 359.32	0.95
10651.00	87.76	0.86	8441.74	32.00	2485.95	2485.79 N 28.42 W	33.53376319 N	103.61382704 W	2485.95@ 359.34	2.20
10683.00	88.46	0.35	8442.80	32.00	2517.93	2517.77 N 28.08 W	33.53385108 N	103.61382521 W	2517.93@ 359.36	2.71
10715.00	89.25	0.42	8443.44	32.00	2549.92	2549.76 N 27.87 W	33.53393899 N	103.61382377 W	2549.92@ 359.37	2.48
10747.00	89.78	1.17	8443.71	32.00	2581.90	2581.76 N 27.42 W	33.53402692 N	103.61382159 W	2581.90@ 359.39	2.87
10778.00	90.13	1.37	8443.73	31.00	2612.89	2612.75 N 26.74 W	33.53411207 N	103.61381863 W	2612.89@ 359.41	1.30
10810.00	89.60	0.69	8443.81	32.00	2644.87	2644.75 N 26.16 W	33.53419999 N	103.61381601 W	2644.88@ 359.43	2.69
10842.00	89.87	0.45	8443.96	32.00	2676.86	2676.74 N 25.84 W	33.53428792 N	103.61381424 W	2676.87@ 359.45	1.13
10874.00	90.31	0.54	8443.91	32.00	2708.86	2708.74 N 25.57 W	33.53437586 N	103.61381260 W	2708.86@ 359.46	1.40
10905.00	89.43	359.72	8443.98	31.00	2739.85	2739.74 N 25.50 W	33.53446105 N	103.61381167 W	2739.86@ 359.47	3.88
10937.00	88.72	359.47	8444.49	32.00	2771.85	2771.74 N 25.72 W	33.53454898 N	103.61381168 W	2771.86@ 359.47	2.35
10968.00	89.08	359.42	8445.09	31.00	2802.84	2802.73 N 26.02 W	33.53463416 N	103.61381196 W	2802.85@ 359.47	1.17
11000.00	89.16	358.68	8445.58	32.00	2834.84	2834.72 N 26.55 W	33.53472209 N	103.61381297 W	2834.85@ 359.46	2.33
11032.00	89.25	358.39	8446.02	32.00	2866.83	2866.71 N 27.37 W	33.53481001 N	103.61381493 W	2866.84@ 359.45	0.95
11064.00	89.69	358.57	8446.32	32.00	2898.83	2898.69 N 28.22 W	33.53489793 N	103.61381699 W	2898.83@ 359.44	1.49
11096.00	90.04	359.04	8446.40	32.00	2930.83	2930.69 N 28.89 W	33.53498587 N	103.61381845 W	2930.83@ 359.44	1.83

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11127.00	90.22	359.14	8446.33	31.00	2961.82	2961.68 N	29.38 W	33.53507106 N	103.61381936 W	2961.83@	359.43	0.66
11159.00	89.78	358.63	8446.33	32.00	2993.82	2993.68 N	30.00 W	33.53515900 N	103.61382067 W	2993.83@	359.43	2.10
11190.00	89.52	357.95	8446.52	31.00	3024.82	3024.66 N	30.93 W	33.53524417 N	103.61382300 W	3024.82@	359.41	2.35
11222.00	89.96	358.08	8446.66	32.00	3056.81	3056.64 N	32.04 W	33.53533208 N	103.61382591 W	3056.81@	359.40	1.43
11254.00	89.96	358.63	8446.68	32.00	3088.80	3088.63 N	32.96 W	33.53542000 N	103.61382820 W	3088.81@	359.39	1.72
11285.00	90.13	358.67	8446.66	31.00	3119.80	3119.62 N	33.69 W	33.53550518 N	103.61382989 W	3119.80@	359.38	0.56
11317.00	90.13	357.81	8446.59	32.00	3151.80	3151.61 N	34.67 W	33.53559310 N	103.61383238 W	3151.80@	359.37	2.69
11349.00	90.40	357.84	8446.44	32.00	3183.78	3183.58 N	35.88 W	33.53568100 N	103.61383564 W	3183.78@	359.35	0.85
11380.00	90.57	358.47	8446.18	31.00	3214.78	3214.57 N	36.88 W	33.53576617 N	103.61383821 W	3214.78@	359.34	2.10
11412.00	90.48	357.95	8445.88	32.00	3246.77	3246.55 N	37.88 W	33.53585408 N	103.61384076 W	3246.77@	359.33	1.65
11443.00	90.66	358.05	8445.57	31.00	3277.76	3277.53 N	38.96 W	33.53593924 N	103.61384361 W	3277.76@	359.32	0.66
11475.00	90.84	358.10	8445.16	32.00	3309.75	3309.51 N	40.04 W	33.53602715 N	103.61384641 W	3309.75@	359.31	0.58
11507.00	90.75	358.03	8444.71	32.00	3341.74	3341.49 N	41.12 W	33.53611505 N	103.61384922 W	3341.74@	359.30	0.36
11538.00	90.48	358.12	8444.38	31.00	3372.73	3372.47 N	42.16 W	33.53620021 N	103.61385194 W	3372.73@	359.28	0.92
11570.00	90.40	358.08	8444.13	32.00	3404.72	3404.45 N	43.22 W	33.53628812 N	103.61385469 W	3404.72@	359.27	0.28
11602.00	90.22	358.23	8443.96	32.00	3436.71	3436.43 N	44.25 W	33.53637604 N	103.61385734 W	3436.72@	359.26	0.73
11633.00	90.48	358.28	8443.77	31.00	3467.71	3467.42 N	45.19 W	33.53646121 N	103.61385973 W	3467.71@	359.25	0.85
11665.00	90.57	358.49	8443.48	32.00	3499.70	3499.40 N	46.10 W	33.53654913 N	103.61386197 W	3499.71@	359.25	0.71
11696.00	90.22	358.49	8443.26	31.00	3530.70	3530.39 N	46.91 W	33.53663431 N	103.61386394 W	3530.70@	359.24	1.13
11728.00	90.31	358.47	8443.11	32.00	3562.69	3562.38 N	47.76 W	33.53672223 N	103.61386600 W	3562.70@	359.23	0.29
11759.00	90.40	358.40	8442.92	31.00	3593.69	3593.37 N	48.61 W	33.53680741 N	103.61386807 W	3593.69@	359.22	0.37
11791.00	90.57	358.68	8442.65	32.00	3625.68	3625.35 N	49.42 W	33.53689534 N	103.61387002 W	3625.69@	359.22	1.02
11823.00	88.90	358.48	8442.80	32.00	3657.68	3657.34 N	50.22 W	33.53698326 N	103.61387189 W	3657.69@	359.21	5.26
11853.00	88.29	357.88	8443.54	30.00	3687.67	3687.32 N	51.17 W	33.53706566 N	103.61387433 W	3687.67@	359.20	2.85
11886.00	88.37	357.82	8444.50	33.00	3720.64	3720.28 N	52.41 W	33.53715627 N	103.61387764 W	3720.65@	359.19	0.30
11918.00	88.37	357.95	8445.41	32.00	3752.62	3752.25 N	53.59 W	33.53724414 N	103.61388079 W	3752.63@	359.18	0.41

PathFinder Energy Services, Inc.

Survey Report

OGX RESOURCES, L.L.C.
NLA STATE UNIT #1Y
LEA COUNTY, NEW MEXICO
RIG: SILVER OAK 11

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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)		Survey Latitude (deg)	Survey Longitude (deg)	Closure Dist Dir (ft) (deg)	DLS (dg/100ft)
11950.00	89.43	358.86	8446.02	32.00	3784.61	3784.23 N	54.48 W	33.53733205 N	103.61388298 W	3784.62@ 359.18	4.37
11981.00	89.78	358.96	8446.24	31.00	3815.60	3815.22 N	55.07 W	33.53741724 N	103.61388421 W	3815.62@ 359.17	1.17
12013.00	90.22	359.60	8446.24	32.00	3847.60	3847.22 N	55.47 W	33.53750518 N	103.61388481 W	3847.62@ 359.17	2.43
12044.00	90.22	359.71	8446.12	31.00	3878.60	3878.22 N	55.66 W	33.53759037 N	103.61388471 W	3878.62@ 359.18	0.35
12076.00	90.31	359.78	8445.97	32.00	3910.60	3910.22 N	55.80 W	33.53767832 N	103.61388445 W	3910.62@ 359.18	0.36
12108.00	90.22	0.10	8445.82	32.00	3942.60	3942.22 N	55.83 W	33.53776626 N	103.61388383 W	3942.61@ 359.19	1.04
12140.00	89.78	359.89	8445.82	32.00	3974.60	3974.22 N	55.83 W	33.53785420 N	103.61388311 W	3974.61@ 359.20	1.52
12172.00	90.13	359.91	8445.85	32.00	4006.60	4006.22 N	55.89 W	33.53794214 N	103.61388257 W	4006.61@ 359.20	1.09
12203.00	90.22	360.00	8445.75	31.00	4037.59	4037.22 N	55.91 W	33.53802734 N	103.61388194 W	4037.60@ 359.21	0.41
12235.00	90.31	0.11	8445.60	32.00	4069.59	4069.22 N	55.88 W	33.53811528 N	103.61388111 W	4069.60@ 359.21	0.44
12258.00	90.48	0.24	8445.44	23.00	4092.59	4092.21 N	55.81 W	33.53817848 N	103.61388036 W	4092.60@ 359.22	0.93
STRAIGHT LINE PROJECTION TO BIT DEPTH AT 12300' MD.											
12300.00	90.48	0.24	8445.09	42.00	4134.58	4134.21 N	55.64 W	33.53829390 N	103.61387882 W	4134.59@ 359.23	0.00

** The survey data at tie-in point was furnished by a recognized survey company and entered as submitted. Survey stations above the tie-in point represent recalculated data by PathFinder Energy Services, Inc. and may reflect minor changes due to rounding differences between survey programs. Only survey stations taken by qualified PathFinder personnel are subject to certification.