

Submit To: Appropriate District Office State Lease - 6 copies Fee Lease - 5 copies 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 87505	State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505	Form C-105 Revised June 10, 2003 FEB - 2 2009 WELL API NO. : 30 015 36535 5. Indicate Type of Lease STATE X FEE State Oil & Gas Lease No.
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WELL COMPLETION OR RECOMPLETION REPORT AND LOG					
1a. Type of Well: OIL WELL X GAS WELL DRY ☐ OTHER _____			7. Lease Name or Unit Agreement Name Challenger 1 State ✓		
b. Type of Completion: NEW X WORK DEEPEN: PLUG DIFF. WELL OVER BACK RESVR. OTHER:			8. Well No.: 1 ✓		
2. Name of Operator: OGX Resources, LLC Ogrid: 217955 ✓			9. Pool name or Wildcat: Pierce Crossing; Bone Spring, East		
3. Address of Operator P.O. Box 2064, Midland, TX 79702					
4. Well Location Unit Letter D : 660' Feet From The North Line and 660' Feet From The West Line Section 1 Township 25S Range 29E NMPM Eddy County					
10. Date Spudded 8-30-08	11. Date T.D. Reached 11-28-08	12. Date Compl. (Ready to Prod.) 1-2-2009	13. Elevations (DF& RKB, RT, GR, etc) 3100' GR	14. Elev. Casinghead	
15. Total Depth: 11,865'	16. Plug Back T.D.: 11,648'	17. If Multiple Compl. How Many Zones?	18. Intervals Drilled By	Rotary Tools: X	Cable Tools
19. Producing Interval(s), of this completion - Top, Bottom, Name Bone Springs: 8425-9895'; 10,140-11,610'					20. Was Directional Survey Made y
21. Type Electric and Other Logs Run: GR/CCL ✓				22. Was Well Cored: No	

23. CASING RECORD (Report all strings set in well)					
CASING SIZE	WEIGHT LB /FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13 3/8"	48#	585'	17 1/2"	500 sx - surface	None
9 5/8"	36#	3125'	12 1/4"	1100 sx - surface	None
5 1/2"	17#	11,865'	7 7/8"	2100 sx - surface	None

24. LINER RECORD				25. TUBING RECORD			
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
					2 3/8"	7556'	

26. Perforation record (interval, size, and number): 8425-9895'; 10,140-11,610'	27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC. <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="width:50%;">DEPTH INTERVAL</th> <th style="width:50%;">AMOUNT AND KIND MATERIAL USED</th> </tr> <tr> <td>8425-9895'</td> <td>4000 gals acid; 8133 bbl frac w/264,740# prop</td> </tr> <tr> <td>10,140-11,610'</td> <td>5000 gals acid; 7745 bbl frac w/183,320# prop</td> </tr> <tr><td> </td><td> </td></tr> </table>	DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED	8425-9895'	4000 gals acid; 8133 bbl frac w/264,740# prop	10,140-11,610'	5000 gals acid; 7745 bbl frac w/183,320# prop		
DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED								
8425-9895'	4000 gals acid; 8133 bbl frac w/264,740# prop								
10,140-11,610'	5000 gals acid; 7745 bbl frac w/183,320# prop								

28. PRODUCTION							
Date First Production. 1-2-09		Production Method (Flowing, gas lift, pumping - Size and type pump) Flowing			Well Status (Prod. or Shut-in) Producing		
Date of Test 1-16-09	Hours Tested 24	Choke Size 32/64"	Prod'n For Test Period	Oil - Bbl 122	Gas - MCF 570	Water - Bbl. 1316	Gas - Oil Ratio
Flow Tubing Press 600 psi	Casing Pressure packer	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API - (Corr.)	
29. Disposition of Gas (Sold, used for fuel, vented, etc.)						Test Witnessed By	
Sales 30. List Attachments C-104, logs, directional							

Signature		Name : Ann E. Ritchie	Title: Regulatory Agent	Date: 1-21-09
E-mail Address: ann.wtor@gmail.com				

INSTRUCTIONS OGX Challenger 1 State #1

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, items 25 through 29 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico		Northwestern New Mexico	
T. Anhy 1	T. Canyon	T. Ojo Alamo	T. Penn. "B"
T. Salt	T. Strawn	T. Kirtland-Fruitland	T. Penn. "C"
B. Salt	T. Atoka	T. Pictured Cliffs	T. Penn. "D"
T. Yates	T. Miss	T. Cliff House	T. Leadville
T. 7 Rivers	T. Devonian	T. Menefee	T. Madison
T. Queen	T. Silurian	T. Point Lookout	T. Elbert
T. Grayburg	T. Montoya	T. Mancos	T. McCracken
T. San Andres	T. Simpson	T. Gallup	T. Ignacio Otzte
T. Glorieta	T. McKee	Base Greenhorn	T. Granite
T. Paddock	T. Ellenburger	T. Dakota	T.
T. Blinbry	T. Gr. Wash	T. Morrison	T.
T. Tubb	T. Delaware Sand	T. Todilto	T.
T. Drinkard	T. Bone Springs 7601'	T. Entrada	T.
T. Abo	T. Morrow	T. Wingate	T.
T. Wolfcamp	T. MiddleMorrow:	T. Chinle	T.
T. Penn	T.	T. Permian	T.
T. Cisco (Bough C)	T.	T. Penn "A"	T.

OIL OR GAS SANDS OR ZONES

No. 1, from.....to.....
 No. 2, from.....to.....
 No. 3, from.....to.....
 No. 4, from.....to.....

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from.....to.....feet.....
 No. 2, from.....to.....feet.....
 No. 3, from.....to.....feet.....

LITHOLOGY RECORD (Attach additional sheet if necessary)

From	To	Thickness In Feet	Lithology	From	To	Thickness In Feet	Lithology

Pathfinder Energy Services **Patfinder X & Y Survey Report**

Company: OGX Resources
Project: Eddy County
Site: S1 T25S R29E
Well: Challenger 1 State #1
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well Challenger 1 State #1
TVD Reference: Well#1 @ 3112.00ft (JW #1)
MD Reference: Well#1 @ 3112.00ft (JW #1)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.16 Single User Db

Project: Eddy County, New Mexico

Map System: US State Plane 1927 (Exact solution)
Geo Datum: NAD 1927 (NADCON CONUS)
Map Zone: New Mexico East 3001

System Datum: Mean Sea Level

Site: S1 T25S R29E

Site Position:		Northing:	423,821.100 ft	Latitude:	32° 9' 52.567 N
From: Map		Easting:	620,480.800 ft	Longitude:	103° 56' 38.339 W
Position Uncertainty:	0.00 ft	Slot Radius:	"	Grid Convergence:	0.21 °

Well: Challenger 1 State #1

Well Position	+N/-S	0.00 ft	Northing:	423,821.100 ft	Latitude:	32° 9' 52.567 N
	+E/-W	0.00 ft	Easting:	620,480.800 ft	Longitude:	103° 56' 38.339 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	3,100.00 ft

Wellbore: OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	User Defined	8/6/2008	0.00	0.00	0

Design: OH

Audit Notes:

Version: 1.0 **Phase:** ACTUAL **Tie On Depth:** 0.00

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	179.83

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Survey Program Date 12/16/2008

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
100.00	7,600.00	GYRO (OH)	CB-GYRO-MS	Camera based gyro multishot
7,630.00	11,685.00	MWD (OH)	MWD	MWD - Standard

Survey

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)
7,600.00	2.65	263.11	7,595.65	4,483.65	-108.96	71.63	109.17	0.00	423,712.14	620,552.43
7,630.00	4.48	219.29	7,625.60	4,513.60	-109.95	70.20	110.16	10.52	423,711.15	620,551.00
7,658.00	6.16	207.34	7,653.48	4,541.48	-112.13	68.82	112.33	7.16	423,708.97	620,549.62
7,689.00	10.46	201.37	7,684.15	4,572.15	-116.23	67.03	116.43	14.13	423,704.87	620,547.83
7,720.00	11.26	199.70	7,714.59	4,602.59	-121.70	64.99	121.89	2.77	423,699.40	620,545.79
7,751.00	11.17	200.03	7,745.00	4,633.00	-127.37	62.94	127.56	0.36	423,693.73	620,543.74
7,782.00	10.90	196.22	7,775.43	4,663.43	-133.01	61.09	133.19	2.51	423,688.09	620,541.89
7,814.00	11.34	193.39	7,806.83	4,694.83	-138.97	59.52	139.15	2.19	423,682.13	620,540.32
7,845.00	15.21	190.14	7,836.99	4,724.99	-145.94	58.09	146.11	12.71	423,675.16	620,538.89
7,908.00	19.87	187.39	7,897.05	4,785.05	-164.70	55.26	164.87	7.51	423,656.40	620,536.06
7,939.00	22.69	187.47	7,925.93	4,813.93	-175.86	53.80	176.02	9.10	423,645.24	620,534.60
7,970.00	26.03	187.50	7,954.17	4,842.17	-188.54	52.14	188.69	10.77	423,632.56	620,532.94
8,001.00	30.42	187.55	7,981.47	4,869.47	-203.07	50.22	203.21	14.16	423,618.03	620,531.02
8,032.00	34.73	187.52	8,007.59	4,895.59	-219.61	48.03	219.75	13.90	423,601.49	620,528.83
8,063.00	39.39	188.51	8,032.32	4,920.32	-238.10	45.42	238.24	15.15	423,583.00	620,526.22
8,094.00	43.35	188.39	8,055.58	4,943.58	-258.36	42.41	258.49	12.78	423,562.74	620,523.21
8,125.00	46.78	187.61	8,077.48	4,965.48	-280.09	39.36	280.21	11.21	423,541.01	620,520.16
8,157.00	48.72	186.26	8,098.99	4,986.99	-303.60	36.50	303.71	6.82	423,517.50	620,517.30
8,188.00	52.06	185.91	8,118.75	5,006.75	-327.35	33.98	327.45	10.81	423,493.75	620,514.78
8,219.00	55.93	186.45	8,136.97	5,024.97	-352.28	31.27	352.37	12.56	423,468.82	620,512.07
8,250.00	59.18	186.96	8,153.60	5,041.60	-378.25	28.22	378.34	10.58	423,442.85	620,509.02

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Survey

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8,294.00	64.02	186.08	8,174.52	5,062.52	-416.70	23.83	416.77	11.14	423,404.40	620,504.63
8,326.00	68.50	185.27	8,187.40	5,075.40	-445.84	20.94	445.90	14.19	423,375.26	620,501.74
8,357.00	73.60	184.53	8,197.47	5,085.47	-475.04	18.44	475.09	16.61	423,346.06	620,499.24
8,388.00	79.14	186.23	8,204.77	5,092.77	-505.02	15.61	505.07	18.65	423,316.08	620,496.41
8,419.00	82.31	185.56	8,209.76	5,097.76	-535.45	12.47	535.49	10.45	423,285.65	620,493.27
8,450.00	82.22	185.36	8,213.94	5,101.94	-566.03	9.54	566.06	0.70	423,255.07	620,490.34
8,482.00	81.60	184.41	8,218.44	5,106.44	-597.60	6.85	597.61	3.52	423,223.50	620,487.65
8,512.00	84.06	183.59	8,222.18	5,110.18	-627.29	4.77	627.30	8.64	423,193.81	620,485.57
8,544.00	86.44	183.93	8,224.83	5,112.83	-659.11	2.68	659.11	7.51	423,161.99	620,483.48
8,575.00	85.65	183.67	8,226.97	5,114.97	-689.96	0.63	689.96	2.68	423,131.14	620,481.43
8,608.00	85.65	184.34	8,229.48	5,117.48	-722.79	-1.67	722.78	2.02	423,098.31	620,479.13
8,640.00	87.41	185.56	8,231.41	5,119.41	-754.61	-4.42	754.59	6.69	423,066.49	620,476.38
8,670.00	88.46	186.86	8,232.49	5,120.49	-784.41	-7.67	784.39	5.57	423,036.69	620,473.13
8,702.00	90.66	187.97	8,232.74	5,120.74	-816.14	-11.80	816.10	7.70	423,004.96	620,469.00
8,733.00	89.96	187.16	8,232.57	5,120.57	-846.87	-15.88	846.82	3.45	422,974.23	620,464.92
8,764.00	90.57	186.91	8,232.43	5,120.43	-877.64	-19.67	877.57	2.13	422,943.46	620,461.13
8,796.00	91.63	186.51	8,231.81	5,119.81	-909.41	-23.41	909.34	3.54	422,911.69	620,457.39
8,827.00	92.51	184.35	8,230.69	5,118.69	-940.25	-26.34	940.17	7.52	422,880.85	620,454.46
8,858.00	92.51	182.26	8,229.34	5,117.34	-971.17	-28.13	971.08	6.74	422,849.93	620,452.67
8,890.00	93.03	181.77	8,227.79	5,115.79	-1,003.11	-29.25	1,003.02	2.23	422,817.99	620,451.55
8,921.00	93.12	182.00	8,226.13	5,114.13	-1,034.05	-30.27	1,033.95	0.80	422,787.05	620,450.53
8,953.00	93.30	182.07	8,224.33	5,112.33	-1,065.98	-31.41	1,065.88	0.60	422,755.12	620,449.39
8,984.00	93.47	181.96	8,222.50	5,110.50	-1,096.90	-32.49	1,096.80	0.65	422,724.20	620,448.31
9,015.00	93.47	182.16	8,220.63	5,108.63	-1,127.83	-33.61	1,127.72	0.64	422,693.27	620,447.19
9,047.00	92.24	180.59	8,219.03	5,107.03	-1,159.78	-34.37	1,159.67	6.23	422,661.32	620,446.43
9,077.00	92.15	180.09	8,217.89	5,105.89	-1,189.75	-34.55	1,189.65	1.69	422,631.35	620,446.25
9,108.00	90.66	180.19	8,217.13	5,105.13	-1,220.74	-34.63	1,220.64	4.82	422,600.36	620,446.17

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Wellbore: OH
Design: OH

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TVD Reference: Well#1 @ 3112.00ft (JW #1)
MD Reference: Well#1 @ 3112.00ft (JW #1)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM.2003.16 Single User Db

Survey

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)
9,139.00	89.34	180.13	8,217.13	5,105.13	-1,251.74	-34.71	1,251.63	4.26	422,569.36	620,446.09
9,171.00	89.16	180.43	8,217.54	5,105.54	-1,283.74	-34.87	1,283.63	1.09	422,537.36	620,445.93
9,202.00	89.52	180.58	8,217.90	5,105.90	-1,314.74	-35.14	1,314.63	1.26	422,506.36	620,445.66
9,233.00	89.69	180.46	8,218.11	5,106.11	-1,345.73	-35.42	1,345.62	0.67	422,475.37	620,445.38
9,263.00	89.16	180.13	8,218.42	5,106.42	-1,375.73	-35.58	1,375.62	2.08	422,445.37	620,445.22
9,294.00	88.99	180.04	8,218.92	5,106.92	-1,406.73	-35.63	1,406.62	0.62	422,414.37	620,445.17
9,325.00	89.16	179.70	8,219.42	5,107.42	-1,437.72	-35.55	1,437.61	1.23	422,383.38	620,445.25
9,356.00	89.78	179.11	8,219.70	5,107.70	-1,468.72	-35.23	1,468.61	2.76	422,352.38	620,445.57
9,387.00	89.69	177.71	8,219.85	5,107.85	-1,499.71	-34.37	1,499.60	4.53	422,321.39	620,446.43
9,418.00	89.78	178.34	8,219.99	5,107.99	-1,530.69	-33.30	1,530.58	2.05	422,290.41	620,447.50
9,449.00	89.87	177.84	8,220.08	5,108.08	-1,561.67	-32.27	1,561.57	1.64	422,259.43	620,448.53
9,479.00	90.31	177.59	8,220.04	5,108.04	-1,591.65	-31.08	1,591.55	1.69	422,229.45	620,449.72
9,510.00	91.28	177.37	8,219.61	5,107.61	-1,622.61	-29.71	1,622.52	3.21	422,198.49	620,451.09
9,541.00	91.71	177.04	8,218.80	5,106.80	-1,653.57	-28.20	1,653.48	1.75	422,167.53	620,452.60
9,572.00	92.07	174.35	8,217.78	5,105.78	-1,684.46	-25.88	1,684.38	8.75	422,136.64	620,454.92
9,603.00	92.42	176.89	8,216.56	5,104.56	-1,715.34	-23.51	1,715.27	8.26	422,105.76	620,457.29
9,634.00	92.95	176.86	8,215.11	5,103.11	-1,746.26	-21.82	1,746.19	1.71	422,074.84	620,458.98
9,665.00	92.42	176.57	8,213.66	5,101.66	-1,777.18	-20.05	1,777.11	1.95	422,043.92	620,460.75
9,696.00	90.22	176.11	8,212.94	5,100.94	-1,808.10	-18.07	1,808.04	7.25	422,013.00	620,462.73
9,727.00	88.20	175.76	8,213.37	5,101.37	-1,839.02	-15.87	1,838.97	6.61	421,982.08	620,464.93
9,757.00	87.85	175.32	8,214.40	5,102.40	-1,868.91	-13.54	1,868.86	1.87	421,952.19	620,467.26
9,788.00	88.11	175.61	8,215.50	5,103.50	-1,899.80	-11.09	1,899.76	1.26	421,921.30	620,469.71
9,819.00	88.29	174.99	8,216.47	5,104.47	-1,930.68	-8.55	1,930.64	2.08	421,890.42	620,472.25
9,849.00	89.34	175.68	8,217.09	5,105.09	-1,960.57	-6.11	1,960.54	4.19	421,860.53	620,474.69
9,880.00	89.87	175.27	8,217.31	5,105.31	-1,991.47	-3.67	1,991.45	2.16	421,829.63	620,477.13
9,910.00	90.22	175.48	8,217.28	5,105.28	-2,021.38	-1.25	2,021.36	1.36	421,799.72	620,479.55
9,941.00	90.66	175.50	8,217.04	5,105.04	-2,052.28	1.19	2,052.27	1.42	421,768.82	620,481.99

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Survey

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)
9,972.00	91.36	175.20	8,216.50	5,104.50	-2,083.17	3.70	2,083.17	2.46	421,737.93	620,484.50
10,003.00	90.66	173.95	8,215.95	5,103.95	-2,114.03	6.63	2,114.04	4.62	421,707.07	620,487.43
10,035.00	89.87	173.79	8,215.80	5,103.80	-2,145.84	10.05	2,145.86	2.52	421,675.26	620,490.85
10,065.00	89.78	173.73	8,215.89	5,103.89	-2,175.67	13.31	2,175.70	0.36	421,645.43	620,494.11
10,095.00	87.58	173.56	8,216.59	5,104.59	-2,205.47	16.63	2,205.51	7.36	421,615.63	620,497.43
10,125.00	87.32	173.28	8,217.92	5,105.92	-2,235.24	20.06	2,235.29	1.27	421,585.86	620,500.86
10,156.00	87.32	173.47	8,219.37	5,107.37	-2,266.00	23.64	2,266.06	0.61	421,555.10	620,504.44
10,187.00	87.67	172.76	8,220.72	5,108.72	-2,296.75	27.35	2,296.82	2.55	421,524.35	620,508.15
10,218.00	87.67	172.23	8,221.98	5,109.98	-2,327.46	31.39	2,327.54	1.71	421,493.64	620,512.19
10,250.00	87.76	171.95	8,223.26	5,111.26	-2,359.13	35.80	2,359.22	0.92	421,461.97	620,516.60
10,281.00	88.11	171.93	8,224.38	5,112.38	-2,389.80	40.14	2,389.91	1.13	421,431.30	620,520.94
10,313.00	88.11	171.56	8,225.43	5,113.43	-2,421.45	44.73	2,421.58	1.16	421,399.65	620,525.53
10,343.00	88.90	171.21	8,226.22	5,114.22	-2,451.11	49.22	2,451.24	2.88	421,369.99	620,530.02
10,375.00	90.13	170.36	8,226.49	5,114.49	-2,482.69	54.35	2,482.84	4.67	421,338.41	620,535.15
10,406.00	91.45	169.81	8,226.06	5,114.06	-2,513.22	59.68	2,513.39	4.61	421,307.88	620,540.48
10,437.00	92.07	169.48	8,225.11	5,113.11	-2,543.70	65.25	2,543.89	2.27	421,277.40	620,546.05
10,468.00	92.86	169.64	8,223.77	5,111.77	-2,574.16	70.87	2,574.36	2.60	421,246.94	620,551.67
10,500.00	93.65	169.46	8,221.96	5,109.96	-2,605.58	76.66	2,605.80	2.53	421,215.52	620,557.46
10,531.00	94.26	168.87	8,219.82	5,107.82	-2,635.96	82.47	2,636.19	2.73	421,185.14	620,563.27
10,562.00	92.77	168.59	8,217.92	5,105.92	-2,666.30	88.52	2,666.55	4.89	421,154.80	620,569.32
10,593.00	92.95	168.81	8,216.37	5,104.37	-2,696.66	94.59	2,696.93	0.92	421,124.44	620,575.39
10,624.00	93.74	168.62	8,214.56	5,102.56	-2,727.01	100.64	2,727.30	2.62	421,094.09	620,581.44
10,655.00	94.35	168.72	8,212.38	5,100.38	-2,757.33	106.72	2,757.63	1.99	421,063.77	620,587.52
10,686.00	93.30	168.59	8,210.31	5,098.31	-2,787.66	112.80	2,787.98	3.41	421,033.44	620,593.60
10,717.00	93.12	168.66	8,208.57	5,096.57	-2,818.00	118.91	2,818.34	0.62	421,003.10	620,599.71
10,748.00	91.45	168.47	8,207.34	5,095.34	-2,848.36	125.05	2,848.72	5.42	420,972.74	620,605.85
10,779.00	91.54	168.14	8,206.53	5,094.53	-2,878.70	131.33	2,879.08	1.10	420,942.40	620,612.13

Pathfinder Energy Services

Patfinder X & Y Survey Report

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Well: Challenger 1 State #1
Wellbore: OH
Design: OH

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North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.16 Single User Db

Survey

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)
10,810.00	92.42	168.68	8,205.46	5,093.46	-2,909.05	137.55	2,909.45	3.33	420,912.05	620,618.35
10,840.00	90.92	168.93	8,204.58	5,092.58	-2,938.47	143.38	2,938.88	5.07	420,882.63	620,624.18
10,871.00	92.15	168.83	8,203.75	5,091.75	-2,968.88	149.35	2,969.31	3.98	420,852.22	620,630.15
10,903.00	92.77	168.78	8,202.38	5,090.38	-3,000.24	155.56	3,000.69	1.94	420,820.86	620,636.36
10,934.00	90.57	169.07	8,201.47	5,089.47	-3,030.65	161.51	3,031.11	7.16	420,790.45	620,642.31
10,965.00	90.13	169.55	8,201.29	5,089.29	-3,061.11	167.26	3,061.59	2.10	420,759.99	620,648.06
10,996.00	89.52	171.20	8,201.38	5,089.38	-3,091.67	172.45	3,092.17	5.67	420,729.43	620,653.25
11,027.00	86.88	169.65	8,202.35	5,090.35	-3,122.22	177.60	3,122.73	9.87	420,698.88	620,658.40
11,058.00	86.00	169.62	8,204.28	5,092.28	-3,152.65	183.16	3,153.18	2.84	420,668.45	620,663.96
11,090.00	85.56	169.97	8,206.63	5,094.63	-3,184.06	188.82	3,184.61	1.76	420,637.04	620,669.62
11,120.00	84.94	169.99	8,209.12	5,097.12	-3,213.50	194.02	3,214.06	2.07	420,607.60	620,674.82
11,151.00	84.15	169.59	8,212.06	5,100.06	-3,243.87	199.49	3,244.45	2.85	420,577.23	620,680.29
11,182.00	85.21	169.91	8,214.94	5,102.94	-3,274.25	204.98	3,274.84	3.57	420,546.85	620,685.78
11,213.00	86.88	169.16	8,217.08	5,105.08	-3,304.66	210.60	3,305.27	5.90	420,516.44	620,691.40
11,244.00	86.53	169.81	8,218.86	5,106.86	-3,335.09	216.25	3,335.71	2.38	420,486.01	620,697.05
11,275.00	86.61	170.00	8,220.71	5,108.71	-3,365.55	221.67	3,366.19	0.66	420,455.55	620,702.47
11,307.00	87.23	170.76	8,222.43	5,110.43	-3,397.06	227.01	3,397.71	3.06	420,424.04	620,707.81
11,338.00	87.14	170.86	8,223.96	5,111.96	-3,427.62	231.96	3,428.29	0.43	420,393.48	620,712.76
11,369.00	87.05	171.51	8,225.53	5,113.53	-3,458.21	236.70	3,458.90	2.11	420,362.89	620,717.50
11,400.00	88.64	172.02	8,226.69	5,114.69	-3,488.87	241.14	3,489.57	5.39	420,332.23	620,721.94
11,432.00	89.25	172.07	8,227.28	5,115.28	-3,520.56	245.57	3,521.27	1.91	420,300.54	620,726.37
11,462.00	89.25	172.47	8,227.67	5,115.67	-3,550.28	249.60	3,551.01	1.33	420,270.82	620,730.40
11,493.00	88.99	173.07	8,228.15	5,116.15	-3,581.03	253.50	3,581.77	2.11	420,240.07	620,734.30
11,525.00	89.08	173.22	8,228.69	5,116.69	-3,612.80	257.32	3,613.55	0.55	420,208.30	620,738.12
11,556.00	88.72	173.58	8,229.28	5,117.28	-3,643.59	260.88	3,644.35	1.64	420,177.51	620,741.68
11,587.00	89.43	173.24	8,229.78	5,117.78	-3,674.38	264.44	3,675.15	2.54	420,146.72	620,745.24
11,618.00	89.52	173.53	8,230.07	5,118.07	-3,705.17	268.01	3,705.95	0.98	420,115.93	620,748.81

Pathfinder Energy Services

Pathfinder X & Y Survey Report

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Site: S1 T25S R29E
Well: Challenger 1 State #1
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well Challenger 1 State #1
TVD Reference: Well#1 @ 3112.00ft (JW #1)
MD Reference: Well#1 @ 3112.00ft (JW #1)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.16 Single User Db

Survey

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)
11,685.00	89.52	173.53	8,230.63	5,118.63	-3,771.74	275.56	3,772.54	0.00	420,049.36	620,756.36

Proj. To Bit @ 11685' MD

Targets

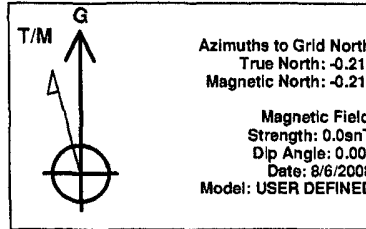
Target Name: - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
KOP - survey misses by 2069.43ft at 8373.85ft MD (8201.80 TVD, -491.26 N, 17.02 E) - Point	0.00	359.93	10,212.00	0.00	0.00	423,821.100	620,480.800	32° 9' 52.567 N	103° 56' 38.339 W
PBHL OH - survey misses by 2501.09ft at 11685.00ft MD (8230.63 TVD, -3771.74 N, 275.56 E) - Point	0.00	359.93	10,662.00	-4,296.00	12.80	419,525.100	620,493.600	32° 9' 10.053 N	103° 56' 38.371 W

Survey Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
11,685.00	8,230.63	-3,771.74	275.56	Proj. To Bit @ 11685' MD

Checked By: _____ Approved By: _____ Date: _____

OGX Resources



PATHFINDER ENERGY SERVICES

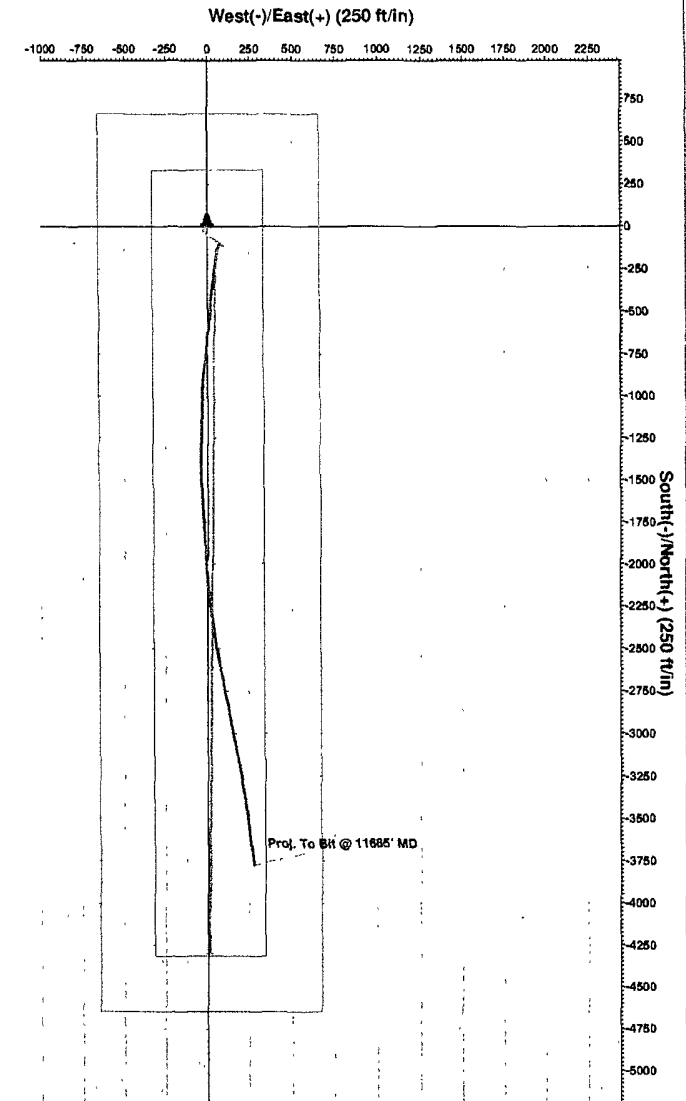
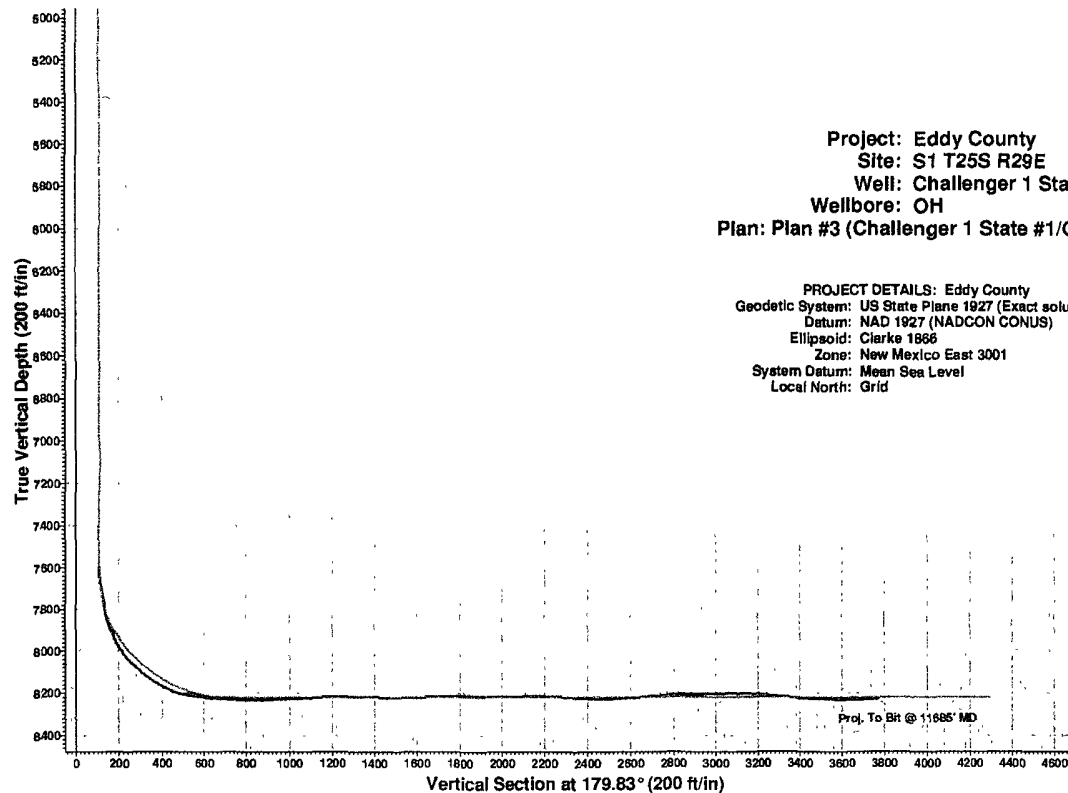
WELL DETAILS: Challenger 1 State #1							
Ground Elevation: 3100.00							
RKB Elevation: Well#1 @ 3112.00ft (JW #1)							
Rig Name: JW #1							
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot	
0.00	0.00	423821.100	820480.800	32° 9' 52.587 N	103° 58' 36.339 W		

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	7600.00	2.65	263.11	7595.65	-106.96	71.63	0.00	0.00	109.17	
2	7620.00	2.56	262.29	7615.63	-106.07	70.73	0.49	-167.91	109.28	
3	8572.48	90.00	180.43	8220.00	-717.65	39.42	9.41	-81.87	717.76	
4	12150.91	90.00	180.43	8220.00	-4296.00	12.56	0.00	0.00	4296.02	PBHL OH

WELLSORE TARGET DETAILS (MAP CO-ORDINATES)						
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
KOP	10212.00	0.00	0.00	423821.100	820480.800	Point
PBHL OH	100682.00	-4296.00	12.80	419525.100	820493.900	Point

Project: Eddy County
 Site: S1 T25S R29E
 Well: Challenger 1 State #1
 Wellbore: OH
 Plan: Plan #3 (Challenger 1 State #1/OH)

PROJECT DETAILS: Eddy County
 Geodetic System: US State Plane 1927 (Exact solution)
 Datum: NAD 1927 (NADCON CONUS)
 Ellipsoid: Clarke 1886
 Zone: New Mexico East 3001
 System Datum: Mean Sea Level
 Local North: Grid



Plan: Plan #3 (Challenger 1 State #1/OH)
 Created By: Nate Bingham Date: 11/24, December 18 2006
 Checked: _____ Date: _____

OGX Resources

Eddy County

S1 T25S R29E

Challenger 1 State #1

OH

Survey: MWD

Patfinder X & Y Survey Report

16 December, 2008

Pathfinder Energy Services

Pathfinder X & Y Survey Report

Company: OGX Resources
Project: Eddy County
Site: S1 T25S R29E
Well: Challenger 1 State #1
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well Challenger 1 State #1
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North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.16 Single User Db

Project Eddy County, New Mexico

Map System: US State Plane 1927 (Exact solution)
Geo Datum: NAD 1927 (NADCON CONUS)
Map Zone: New Mexico East 3001

System Datum: Mean Sea Level

Site S1 T25S R29E

Site Position:		Northing:	423,821.100 ft	Latitude:	32° 9' 52.567 N
From: Map		Easting:	620,480.800 ft	Longitude:	103° 56' 38.339 W
Position Uncertainty:	0.00 ft	Slot Radius:	"	Grid Convergence:	0.21 °

Well Challenger 1 State #1

Well Position	+N/-S	0.00 ft	Northing:	423,821.100 ft	Latitude:	32° 9' 52.567 N
	+E/-W	0.00 ft	Easting:	620,480.800 ft	Longitude:	103° 56' 38.339 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	3,100.00 ft

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	User Defined	8/6/2008	0.00	0.00	0

Design OH

Audit Notes:

Version: 1.0 **Phase:** ACTUAL **Tie On Depth:** 0.00

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	179.83

Pathfinder Energy Services

Patfinder X & Y Survey Report

Company: OGX Resources
Project: Eddy County
Site: S1 T25S R29E
Well: Challenger 1 State #1
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well Challenger 1 State #1
TVD Reference: Well#1 @ 3112.00ft (JW #1)
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North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.16 Single User Db

Survey Program **Date** 12/16/2008

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
100.00	7,600.00	GYRO (OH)	CB-GYRO-MS	Camera based gyro multishot
7,630.00	11,685.00	MWD (OH)	MWD	MWD - Standard

Survey

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)
7,600.00	2.65	263.11	7,595.65	4,483.65	-108.96	71.63	109.17	0.00	423,712.14	620,552.43
7,630.00	4.48	219.29	7,625.60	4,513.60	-109.95	70.20	110.16	10.52	423,711.15	620,551.00
7,658.00	6.16	207.34	7,653.48	4,541.48	-112.13	68.82	112.33	7.16	423,708.97	620,549.62
7,689.00	10.46	201.37	7,684.15	4,572.15	-116.23	67.03	116.43	14.13	423,704.87	620,547.83
7,720.00	11.26	199.70	7,714.59	4,602.59	-121.70	64.99	121.89	2.77	423,699.40	620,545.79
7,751.00	11.17	200.03	7,745.00	4,633.00	-127.37	62.94	127.56	0.36	423,693.73	620,543.74
7,782.00	10.90	196.22	7,775.43	4,663.43	-133.01	61.09	133.19	2.51	423,688.09	620,541.89
7,814.00	11.34	193.39	7,806.83	4,694.83	-138.97	59.52	139.15	2.19	423,682.13	620,540.32
7,845.00	15.21	190.14	7,836.99	4,724.99	-145.94	58.09	146.11	12.71	423,675.16	620,538.89
7,908.00	19.87	187.39	7,897.05	4,785.05	-164.70	55.26	164.87	7.51	423,656.40	620,536.06
7,939.00	22.69	187.47	7,925.93	4,813.93	-175.86	53.80	176.02	9.10	423,645.24	620,534.60
7,970.00	26.03	187.50	7,954.17	4,842.17	-188.54	52.14	188.69	10.77	423,632.56	620,532.94
8,001.00	30.42	187.55	7,981.47	4,869.47	-203.07	50.22	203.21	14.16	423,618.03	620,531.02
8,032.00	34.73	187.52	8,007.59	4,895.59	-219.61	48.03	219.75	13.90	423,601.49	620,528.83
8,063.00	39.39	188.51	8,032.32	4,920.32	-238.10	45.42	238.24	15.15	423,583.00	620,526.22
8,094.00	43.35	188.39	8,055.58	4,943.58	-258.36	42.41	258.49	12.78	423,562.74	620,523.21
8,125.00	46.78	187.61	8,077.48	4,965.48	-280.09	39.36	280.21	11.21	423,541.01	620,520.16
8,157.00	48.72	186.26	8,098.99	4,986.99	-303.60	36.50	303.71	6.82	423,517.50	620,517.30
8,188.00	52.06	185.91	8,118.75	5,006.75	-327.35	33.98	327.45	10.81	423,493.75	620,514.78
8,219.00	55.93	186.45	8,136.97	5,024.97	-352.28	31.27	352.37	12.56	423,468.82	620,512.07
8,250.00	59.18	186.96	8,153.60	5,041.60	-378.25	28.22	378.34	10.58	423,442.85	620,509.02

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Survey

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)
8,294.00	64.02	186.08	8,174.52	5,062.52	-416.70	23.83	416.77	11.14	423,404.40	620,504.63
8,326.00	68.50	185.27	8,187.40	5,075.40	-445.84	20.94	445.90	14.19	423,375.26	620,501.74
8,357.00	73.60	184.53	8,197.47	5,085.47	-475.04	18.44	475.09	16.61	423,346.06	620,499.24
8,388.00	79.14	186.23	8,204.77	5,092.77	-505.02	15.61	505.07	18.65	423,316.08	620,496.41
8,419.00	82.31	185.56	8,209.76	5,097.76	-535.45	12.47	535.49	10.45	423,285.65	620,493.27
8,450.00	82.22	185.36	8,213.94	5,101.94	-566.03	9.54	566.06	0.70	423,255.07	620,490.34
8,482.00	81.60	184.41	8,218.44	5,106.44	-597.60	6.85	597.61	3.52	423,223.50	620,487.65
8,512.00	84.06	183.59	8,222.18	5,110.18	-627.29	4.77	627.30	8.64	423,193.81	620,485.57
8,544.00	86.44	183.93	8,224.83	5,112.83	-659.11	2.68	659.11	7.51	423,161.99	620,483.48
8,575.00	85.65	183.67	8,226.97	5,114.97	-689.96	0.63	689.96	2.68	423,131.14	620,481.43
8,608.00	85.65	184.34	8,229.48	5,117.48	-722.79	-1.67	722.78	2.02	423,098.31	620,479.13
8,640.00	87.41	185.56	8,231.41	5,119.41	-754.61	-4.42	754.59	6.69	423,066.49	620,476.38
8,670.00	88.46	186.86	8,232.49	5,120.49	-784.41	-7.67	784.39	5.57	423,036.69	620,473.13
8,702.00	90.66	187.97	8,232.74	5,120.74	-816.14	-11.80	816.10	7.70	423,004.96	620,469.00
8,733.00	89.96	187.16	8,232.57	5,120.57	-846.87	-15.88	846.82	3.45	422,974.23	620,464.92
8,764.00	90.57	186.91	8,232.43	5,120.43	-877.64	-19.67	877.57	2.13	422,943.46	620,461.13
8,796.00	91.63	186.51	8,231.81	5,119.81	-909.41	-23.41	909.34	3.54	422,911.69	620,457.39
8,827.00	92.51	184.35	8,230.69	5,118.69	-940.25	-26.34	940.17	7.52	422,880.85	620,454.46
8,858.00	92.51	182.26	8,229.34	5,117.34	-971.17	-28.13	971.08	6.74	422,849.93	620,452.67
8,890.00	93.03	181.77	8,227.79	5,115.79	-1,003.11	-29.25	1,003.02	2.23	422,817.99	620,451.55
8,921.00	93.12	182.00	8,226.13	5,114.13	-1,034.05	-30.27	1,033.95	0.80	422,787.05	620,450.53
8,953.00	93.30	182.07	8,224.33	5,112.33	-1,065.98	-31.41	1,065.88	0.60	422,755.12	620,449.39
8,984.00	93.47	181.96	8,222.50	5,110.50	-1,096.90	-32.49	1,096.80	0.65	422,724.20	620,448.31
9,015.00	93.47	182.16	8,220.63	5,108.63	-1,127.83	-33.61	1,127.72	0.64	422,693.27	620,447.19
9,047.00	92.24	180.59	8,219.03	5,107.03	-1,159.78	-34.37	1,159.67	6.23	422,661.32	620,446.43
9,077.00	92.15	180.09	8,217.89	5,105.89	-1,189.75	-34.55	1,189.65	1.69	422,631.35	620,446.25
9,108.00	90.66	180.19	8,217.13	5,105.13	-1,220.74	-34.63	1,220.64	4.82	422,600.36	620,446.17

Pathfinder Energy Services

Patfinder X & Y Survey Report

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Wellbore: OH
Design: OH

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North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.16 Single User Db

Survey

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)
9,139.00	89.34	180.13	8,217.13	5,105.13	-1,251.74	-34.71	1,251.63	4.26	422,569.36	620,446.09
9,171.00	89.16	180.43	8,217.54	5,105.54	-1,283.74	-34.87	1,283.63	1.09	422,537.36	620,445.93
9,202.00	89.52	180.58	8,217.90	5,105.90	-1,314.74	-35.14	1,314.63	1.26	422,506.36	620,445.66
9,233.00	89.69	180.46	8,218.11	5,106.11	-1,345.73	-35.42	1,345.62	0.67	422,475.37	620,445.38
9,263.00	89.16	180.13	8,218.42	5,106.42	-1,375.73	-35.58	1,375.62	2.08	422,445.37	620,445.22
9,294.00	88.99	180.04	8,218.92	5,106.92	-1,406.73	-35.63	1,406.62	0.62	422,414.37	620,445.17
9,325.00	89.16	179.70	8,219.42	5,107.42	-1,437.72	-35.55	1,437.61	1.23	422,383.38	620,445.25
9,356.00	89.78	179.11	8,219.70	5,107.70	-1,468.72	-35.23	1,468.61	2.76	422,352.38	620,445.57
9,387.00	89.69	177.71	8,219.85	5,107.85	-1,499.71	-34.37	1,499.60	4.53	422,321.39	620,446.43
9,418.00	89.78	178.34	8,219.99	5,107.99	-1,530.69	-33.30	1,530.58	2.05	422,290.41	620,447.50
9,449.00	89.87	177.84	8,220.08	5,108.08	-1,561.67	-32.27	1,561.57	1.64	422,259.43	620,448.53
9,479.00	90.31	177.59	8,220.04	5,108.04	-1,591.65	-31.08	1,591.55	1.69	422,229.45	620,449.72
9,510.00	91.28	177.37	8,219.61	5,107.61	-1,622.61	-29.71	1,622.52	3.21	422,198.49	620,451.09
9,541.00	91.71	177.04	8,218.80	5,106.80	-1,653.57	-28.20	1,653.48	1.75	422,167.53	620,452.60
9,572.00	92.07	174.35	8,217.78	5,105.78	-1,684.46	-25.88	1,684.38	8.75	422,136.64	620,454.92
9,603.00	92.42	176.89	8,216.56	5,104.56	-1,715.34	-23.51	1,715.27	8.26	422,105.76	620,457.29
9,634.00	92.95	176.86	8,215.11	5,103.11	-1,746.26	-21.82	1,746.19	1.71	422,074.84	620,458.98
9,665.00	92.42	176.57	8,213.66	5,101.66	-1,777.18	-20.05	1,777.11	1.95	422,043.92	620,460.75
9,696.00	90.22	176.11	8,212.94	5,100.94	-1,808.10	-18.07	1,808.04	7.25	422,013.00	620,462.73
9,727.00	88.20	175.76	8,213.37	5,101.37	-1,839.02	-15.87	1,838.97	6.61	421,982.08	620,464.93
9,757.00	87.85	175.32	8,214.40	5,102.40	-1,868.91	-13.54	1,868.86	1.87	421,952.19	620,467.26
9,788.00	88.11	175.61	8,215.50	5,103.50	-1,899.80	-11.09	1,899.76	1.26	421,921.30	620,469.71
9,819.00	88.29	174.99	8,216.47	5,104.47	-1,930.68	-8.55	1,930.64	2.08	421,890.42	620,472.25
9,849.00	89.34	175.68	8,217.09	5,105.09	-1,960.57	-6.11	1,960.54	4.19	421,860.53	620,474.69
9,880.00	89.87	175.27	8,217.31	5,105.31	-1,991.47	-3.67	1,991.45	2.16	421,829.63	620,477.13
9,910.00	90.22	175.48	8,217.28	5,105.28	-2,021.38	-1.25	2,021.36	1.36	421,799.72	620,479.55
9,941.00	90.66	175.50	8,217.04	5,105.04	-2,052.28	1.19	2,052.27	1.42	421,768.82	620,481.99

Pathfinder Energy Services

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Design: OH

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North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.16 Single User Db

Survey

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)
9,972.00	91.36	175.20	8,216.50	5,104.50	-2,083.17	3.70	2,083.17	2.46	421,737.93	620,484.50
10,003.00	90.66	173.95	8,215.95	5,103.95	-2,114.03	6.63	2,114.04	4.62	421,707.07	620,487.43
10,035.00	89.87	173.79	8,215.80	5,103.80	-2,145.84	10.05	2,145.86	2.52	421,675.26	620,490.85
10,065.00	89.78	173.73	8,215.89	5,103.89	-2,175.67	13.31	2,175.70	0.36	421,645.43	620,494.11
10,095.00	87.58	173.56	8,216.59	5,104.59	-2,205.47	16.63	2,205.51	7.36	421,615.63	620,497.43
10,125.00	87.32	173.28	8,217.92	5,105.92	-2,235.24	20.06	2,235.29	1.27	421,585.86	620,500.86
10,156.00	87.32	173.47	8,219.37	5,107.37	-2,266.00	23.64	2,266.06	0.61	421,555.10	620,504.44
10,187.00	87.67	172.76	8,220.72	5,108.72	-2,296.75	27.35	2,296.82	2.55	421,524.35	620,508.15
10,218.00	87.67	172.23	8,221.98	5,109.98	-2,327.46	31.39	2,327.54	1.71	421,493.64	620,512.19
10,250.00	87.76	171.95	8,223.26	5,111.26	-2,359.13	35.80	2,359.22	0.92	421,461.97	620,516.60
10,281.00	88.11	171.93	8,224.38	5,112.38	-2,389.80	40.14	2,389.91	1.13	421,431.30	620,520.94
10,313.00	88.11	171.56	8,225.43	5,113.43	-2,421.45	44.73	2,421.58	1.16	421,399.65	620,525.53
10,343.00	88.90	171.21	8,226.22	5,114.22	-2,451.11	49.22	2,451.24	2.88	421,369.99	620,530.02
10,375.00	90.13	170.36	8,226.49	5,114.49	-2,482.69	54.35	2,482.84	4.67	421,338.41	620,535.15
10,406.00	91.45	169.81	8,226.06	5,114.06	-2,513.22	59.68	2,513.39	4.61	421,307.88	620,540.48
10,437.00	92.07	169.48	8,225.11	5,113.11	-2,543.70	65.25	2,543.89	2.27	421,277.40	620,546.05
10,468.00	92.86	169.64	8,223.77	5,111.77	-2,574.16	70.87	2,574.36	2.60	421,246.94	620,551.67
10,500.00	93.65	169.46	8,221.96	5,109.96	-2,605.58	76.66	2,605.80	2.53	421,215.52	620,557.46
10,531.00	94.26	168.87	8,219.82	5,107.82	-2,635.96	82.47	2,636.19	2.73	421,185.14	620,563.27
10,562.00	92.77	168.59	8,217.92	5,105.92	-2,666.30	88.52	2,666.55	4.89	421,154.80	620,569.32
10,593.00	92.95	168.81	8,216.37	5,104.37	-2,696.66	94.59	2,696.93	0.92	421,124.44	620,575.39
10,624.00	93.74	168.62	8,214.56	5,102.56	-2,727.01	100.64	2,727.30	2.62	421,094.09	620,581.44
10,655.00	94.35	168.72	8,212.38	5,100.38	-2,757.33	106.72	2,757.63	1.99	421,063.77	620,587.52
10,686.00	93.30	168.59	8,210.31	5,098.31	-2,787.66	112.80	2,787.98	3.41	421,033.44	620,593.60
10,717.00	93.12	168.66	8,208.57	5,096.57	-2,818.00	118.91	2,818.34	0.62	421,003.10	620,599.71
10,748.00	91.45	168.47	8,207.34	5,095.34	-2,848.36	125.05	2,848.72	5.42	420,972.74	620,605.85
10,779.00	91.54	168.14	8,206.53	5,094.53	-2,878.70	131.33	2,879.08	1.10	420,942.40	620,612.13

Pathfinder Energy Services

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Survey

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)
10,810.00	92.42	168.68	8,205.46	5,093.46	-2,909.05	137.55	2,909.45	3.33	420,912.05	620,618.35
10,840.00	90.92	168.93	8,204.58	5,092.58	-2,938.47	143.38	2,938.88	5.07	420,882.63	620,624.18
10,871.00	92.15	168.83	8,203.75	5,091.75	-2,968.88	149.35	2,969.31	3.98	420,852.22	620,630.15
10,903.00	92.77	168.78	8,202.38	5,090.38	-3,000.24	155.56	3,000.69	1.94	420,820.86	620,636.36
10,934.00	90.57	169.07	8,201.47	5,089.47	-3,030.65	161.51	3,031.11	7.16	420,790.45	620,642.31
10,965.00	90.13	169.55	8,201.29	5,089.29	-3,061.11	167.26	3,061.59	2.10	420,759.99	620,648.06
10,996.00	89.52	171.20	8,201.38	5,089.38	-3,091.67	172.45	3,092.17	5.67	420,729.43	620,653.25
11,027.00	86.88	169.65	8,202.35	5,090.35	-3,122.22	177.60	3,122.73	9.87	420,698.88	620,658.40
11,058.00	86.00	169.62	8,204.28	5,092.28	-3,152.65	183.16	3,153.18	2.84	420,668.45	620,663.96
11,090.00	85.56	169.97	8,206.63	5,094.63	-3,184.06	188.82	3,184.61	1.76	420,637.04	620,669.62
11,120.00	84.94	169.99	8,209.12	5,097.12	-3,213.50	194.02	3,214.06	2.07	420,607.60	620,674.82
11,151.00	84.15	169.59	8,212.06	5,100.06	-3,243.87	199.49	3,244.45	2.85	420,577.23	620,680.29
11,182.00	85.21	169.91	8,214.94	5,102.94	-3,274.25	204.98	3,274.84	3.57	420,546.85	620,685.78
11,213.00	86.88	169.16	8,217.08	5,105.08	-3,304.66	210.60	3,305.27	5.90	420,516.44	620,691.40
11,244.00	86.53	169.81	8,218.86	5,106.86	-3,335.09	216.25	3,335.71	2.38	420,486.01	620,697.05
11,275.00	86.61	170.00	8,220.71	5,108.71	-3,365.55	221.67	3,366.19	0.66	420,455.55	620,702.47
11,307.00	87.23	170.76	8,222.43	5,110.43	-3,397.06	227.01	3,397.71	3.06	420,424.04	620,707.81
11,338.00	87.14	170.86	8,223.96	5,111.96	-3,427.62	231.96	3,428.29	0.43	420,393.48	620,712.76
11,369.00	87.05	171.51	8,225.53	5,113.53	-3,458.21	236.70	3,458.90	2.11	420,362.89	620,717.50
11,400.00	88.64	172.02	8,226.69	5,114.69	-3,488.87	241.14	3,489.57	5.39	420,332.23	620,721.94
11,432.00	89.25	172.07	8,227.28	5,115.28	-3,520.56	245.57	3,521.27	1.91	420,300.54	620,726.37
11,462.00	89.25	172.47	8,227.67	5,115.67	-3,550.28	249.60	3,551.01	1.33	420,270.82	620,730.40
11,493.00	88.99	173.07	8,228.15	5,116.15	-3,581.03	253.50	3,581.77	2.11	420,240.07	620,734.30
11,525.00	89.08	173.22	8,228.69	5,116.69	-3,612.80	257.32	3,613.55	0.55	420,208.30	620,738.12
11,556.00	88.72	173.58	8,229.28	5,117.28	-3,643.59	260.88	3,644.35	1.64	420,177.51	620,741.68
11,587.00	89.43	173.24	8,229.78	5,117.78	-3,674.38	264.44	3,675.15	2.54	420,146.72	620,745.24
11,618.00	89.52	173.53	8,230.07	5,118.07	-3,705.17	268.01	3,705.95	0.98	420,115.93	620,748.81

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Survey

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)
11,685.00	89.52	173.53	8,230.63	5,118.63	-3,771.74	275.56	3,772.54	0.00	420,049.36	620,756.36

Proj. To Bit @ 11685' MD

Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
KOP - survey misses by 2069.43ft at 8373.85ft MD (8201 80 TVD, -491.26 N, 17.02 E) - Point	0.00	359.93	10,212.00	0.00	0.00	423,821.100	620,480.800	32° 9' 52.567 N	103° 56' 38.339 W
PBHL OH - survey misses by 2501 09ft at 11685 00ft MD (8230.63 TVD, -3771.74 N, 275.56 E) - Point	0.00	359.93	10,662.00	-4,296.00	12.80	419,525.100	620,493.600	32° 9' 10.053 N	103° 56' 38.371 W

Survey Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	+E/-W (ft)	Comment
11,685.00	8,230.63	-3,771.74	275.56	Proj. To Bit @ 11685' MD

Checked By: _____ Approved By: _____ Date: _____