

OPERATOR'S COPY

Form 3160-3
(August 2007)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED
OMB No. 1004-0137
Expires July 31, 2010

5. Lease Serial No. **BAL**
NMNM107373/NMNM125953

6. If Indian, Allottee or Tribe Name
N/A

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

8. Lease Name and Well No.
Mango 25 Fed Com #2H

9. API Well No.
30 015 37164

10. Field and Pool, or Exploratory
Rock Spur; Delaware/Bone Spring

11. Sec., T. R. M. or Blk. and Survey or Area
Sec 25, T24S, R28E

12. County or Parish
Eddy

13. State
NM

1a. Type of work: ☒ DRILL ☐ REENTER

1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other ☒ Single Zone ☐ Multiple Zone

2. Name of Operator OGX Resources, LLC OGRID 217955
Jeff Birkelbach, (432) 685-1287

3a. Address P.O. Box 2064
Midland, TX 79702

3b. Phone No. (include area code)
(432) 685-1287

4. Location of Well (Report location clearly and in accordance with any State requirements.)*

At surface 1980' FNL & 374' FEL, Unit H

At proposed prod. zone 1980' FNL & 350' FWL, Unit E

14. Distance in miles and direction from nearest town or post office*
Approximately 4 miles SE from Malaga, New Mexico

15. Distance from proposed* 374'
location to nearest
property or lease line, ft.
(Also to nearest drig. unit line, if any)

16. No. of acres in lease
160

17. Spacing Unit dedicated to this well
160

18. Distance from proposed location* N/A
to nearest well, drilling, completed,
applied for, on this lease, ft.

19. Proposed Depth
11818'MD; 7275'TVD

20. BLM/BIA Bond No. on file
NMB 000244

21. Elevations (Show whether DF, KDB, RT, GL, etc.)
2912' GL

22. Approximate date work will start*
06/15/2009

23. Estimated duration
45 days

24. Attachments

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

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

25. Signature **Vicki Johnston**

Name (Printed/Typed)
Vicki Johnston (281) 468-2448

Date
4/9/09

Title
Agent for OGX Resources, LLC

Approved by (Signature) **[Signature]**

Name (Printed/Typed)
Don Peterson

Date
7/8/09

Title
GO FIELD MANAGER

Office
CARLSBAD FIELD OFFICE

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached

Title 18 U.S.C. Section 1001 and Title 43 U.S. States any false, fictitious or fraudulent sta

(Continued on page 2)

Oil Conservation Division
Case No. **9**
Exhibit No. **9**

APPROVAL FOR TWO YEARS

willfully to make to any department or agency of the United

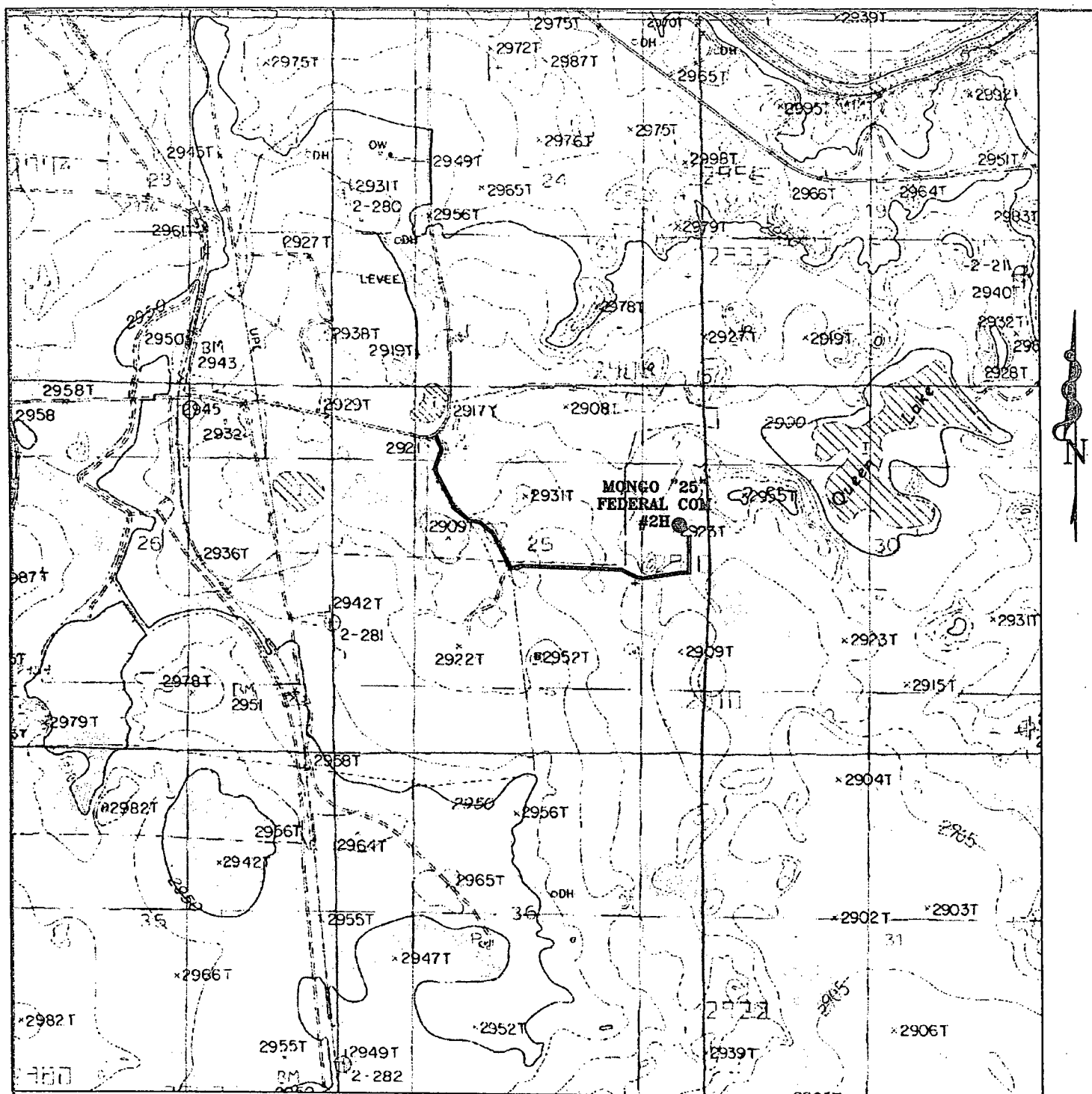
*(Instructions on page 2)

CARLSBAD CONTROLLED WATER BASIN
SEE ATTACHED FOR
CONDITIONS OF APPROVAL

APPROVAL SUBJECT TO
GENERAL REQUIREMENTS
AND SPECIAL STIPULATIONS
ATTACHED

XC-PJS 7/13/09

EXHIBIT B-1



MONGO "25" FEDERAL COM #2H
Located at 1980' FNL and 374' FEL
Section 25, Township 24 South, Range 28 East,
N.M.P.M., Eddy County, New Mexico.



focused on excellence
in the oilfield

P.O. Box 1786
1120 N. West County Rd.
Hobbs, New Mexico 88241
(575) 393-7316 - Office
(575) 392-2206 - Fax
basinsurveys.com

W.O. Number: 21104

Survey Date: 02-18-2009

Scale: 1" = 2000'

Date: 02-19-2009

OGX
RESOURCES,
L.L.C.

EXHIBIT A

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 DepartmentOIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505Form C-102
Revised October 12, 2005Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number	Pool Code 64450	Pool Name Rock Spur; Bone Spring
Property Code	Property Name MONGO "25" FEDERAL COM	Well Number 2H
OGRID No. 217955	Operator Name OGX RESOURCES, L.L.C.	Elevation 2912'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	25	24 S	28 E		1980	NORTH	374	EAST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	25	24 S	28 E		1980	NORTH	350	WEST	EDDY
Dedicated Acres 160	Joint or Infill	Consolidation Code	Order No.						

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

	OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Signature _____ Date _____ Jeff Birkelbach Printed Name
	SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. FEBRUARY 18, 2009 Date Surveyed _____ Signature _____ Professional Surveyor W.O. [Signature] Certificate No. Gary L. Jones 7977 BASIN SURVEYS
	BOTTOM HOLE LOCATION LAT- N.: 32°11'25.39" LONG- W.: 104°02'53.94" SPC- N.: 433113.628 E.: 629506.133 (NAD-83)
	SURFACE LOCATION LAT- N.: 32°11'25.18" LONG- W.: 104°01'59.61" SPC- N.: 433105.075 E.: 634175.313 (NAD-83)

OGX

OGX Resources

Eddy County (NAD 83)

Mongo 25 Fed Com #2H

Mongo 25 #2H

OH

Plan: Plan #1

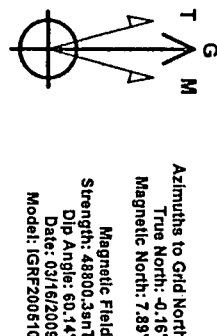
Pathfinder X & Y Survey Report

16 March, 2009

PATHFINDER



Project: Eddy County (NAD 83)
Site: Mongo 25 Fed Com #2H
Well: Mongo 25 #2H
Wellbore: OH
Plan: Plan #1 (Mongo 25 #2H/OH)



PATHFINDER

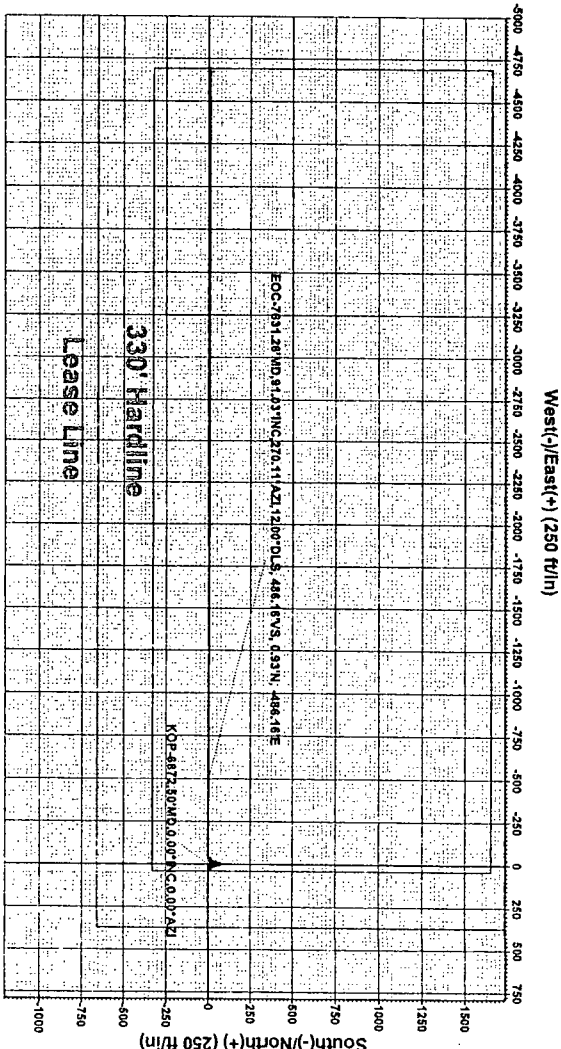
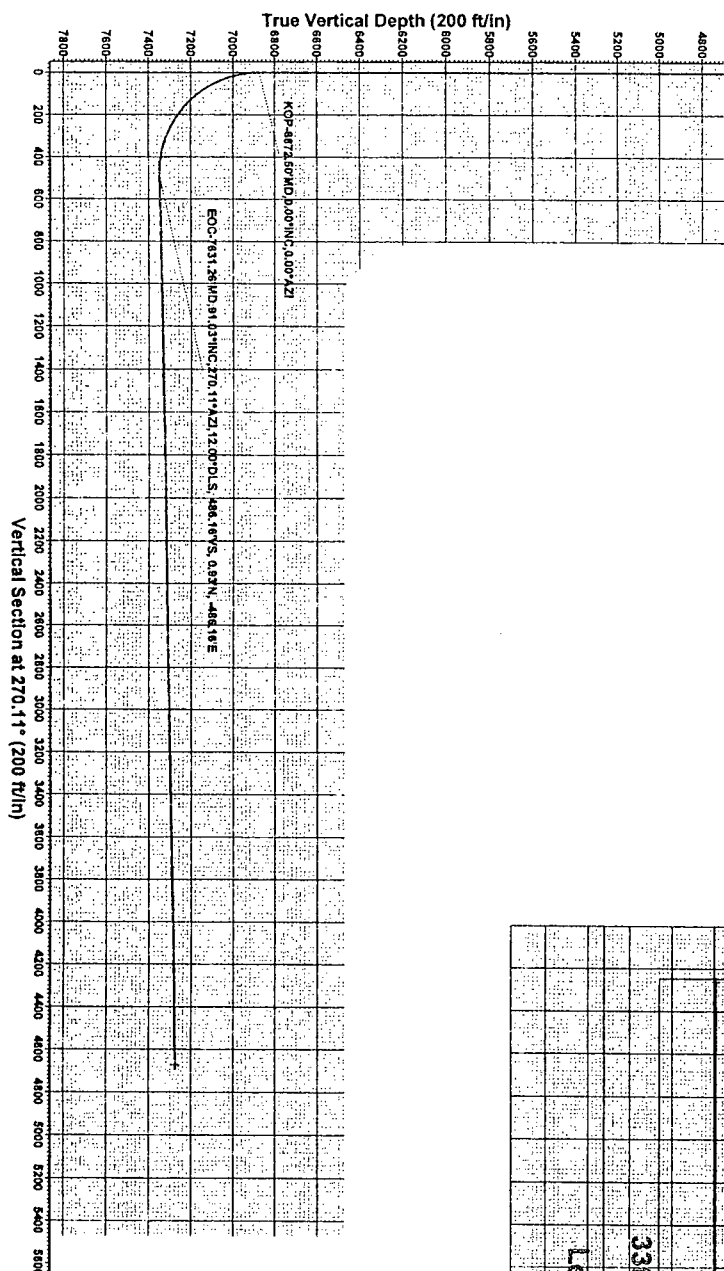
WELL DETAILS: Mongo 25 #2H

WELL DETAILS: Mongo 25 42H						
Ground Elevation: 2912.00						
RMS Elevation: WELL @ 2912.00ft (Original Well Elev)						
Rig Name: Original Well Elev						
+N/-S	+E/W	Nothing	Nothing	Nothing	Nothing	Nothing
0.00	0.00	433105.075	634178.313	32° 11' 25.178 N	104° 1' 59.571 W	Spot

Sec	MD	Inc	Adj	TVD	SECTION DETAILS	VSAC	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	6872.50	0.00	0.00	6872.50	0.00	0.00	0.00
3	7651.28	91.03	270.11	7350.00	0.33	486.16	0.00
4	11617.88	91.03	270.11	7274.74	8.97	4872.18	0.00

Name	TVD	N/S	E/W	North	East	Shape
PEHL (Mongo 25H)	7275.00	8.95	4872.18	433713.828	623506.133	Point

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)



PROJECT DETAILS: Eddy County (NAD 83)
Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level
Local North: Grid

Plan: Plan #1 (Mongo 25 #2H/OH)
Created By: Mark Bingham Date: 14-42 March 15 2009
Checked: _____ Date: _____



Pathfinder Energy Services
Pathfinder X & Y Survey Report



Company: OGX Resources
Project: Eddy County (NAD 83)
Site: Mongo 25 Fed Com #2H
Well: Mongo 25 #2H
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference: Well Mongo 25 #2H
TVD Reference: WELL @ 2912.00ft (Original Well Elev)
MD Reference: WELL @ 2912.00ft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Midland Database

Project Eddy County (NAD 83)
Map System: US State Plane 1983
Geo Datum: North American Datum 1983
Map Zone: New Mexico Eastern Zone

System Datum:

Mean Sea Level

Site Mongo 25 Fed Com #2H

Site Position: **Map** **Northing:** 433,105.075 ft **Latitude:** 32° 11' 25.178 N
From: **Map** **Easting:** 634,178.313 ft **Longitude:** 104° 1' 59.571 W
Position Uncertainty: 0.00 ft **Slot Radius:** " **Grid Convergence:** 0.16°

Well Mongo 25 #2H
Well Position **+N/-S** 0.00 ft **Northing:** 433,105.075 ft **Latitude:** 32° 11' 25.178 N
+E/-W 0.00 ft **Easting:** 634,178.313 ft **Longitude:** 104° 1' 59.571 W
Position Uncertainty 0.00 ft **Wellhead Elevation:** ft **Ground Level:** 2,912.00 ft

Wellbore OH

Magnetics **Model Name** **Sample Date** **Declination** **Dip Angle** **Field Strength**
IGRF200510 03/16/2009 8.05 60.14 48,800

Design Plan #1

Audit Notes:

Version: **Phase:** **PLAN** **Tie On Depth:** 0.00

Vertical Section: **Depth From (TVD)** **+N/-S** **+E/-W** **Direction**
(ft) (ft) (ft) (ft) (ft)
0.00 0.00 0.00 270.11

Survey Tool Program **Date** 03/16/2009
From **To** **Survey (Wellbore)** **Tool Name** **Description**
(ft) (ft) (ft) (ft) (ft)
0.00 11,817.74 Plan #1 (OH) MWD MWD - Standard



Pathfinder Energy Services
Pathfinder X & Y Survey Report

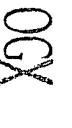


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MD Reference: WELL @ 2912.00ft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Midland Database

Planned Survey

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	NS (ft)	EW (ft)	V. Sec (ft)	Dleg (°/100ft)	Northing (ft)	Easting (ft)
0.00	0.00	0.00	0.00	-2,912.00	0.00	0.00	0.00	0.00	433,105.08	634,178.31
100.00	0.00	0.00	100.00	-2,812.00	0.00	0.00	0.00	0.00	433,105.08	634,178.31
200.00	0.00	0.00	200.00	-2,712.00	0.00	0.00	0.00	0.00	433,105.08	634,178.31
300.00	0.00	0.00	300.00	-2,612.00	0.00	0.00	0.00	0.00	433,105.08	634,178.31
400.00	0.00	0.00	400.00	-2,512.00	0.00	0.00	0.00	0.00	433,105.08	634,178.31
500.00	0.00	0.00	500.00	-2,412.00	0.00	0.00	0.00	0.00	433,105.08	634,178.31
600.00	0.00	0.00	600.00	-2,312.00	0.00	0.00	0.00	0.00	433,105.08	634,178.31
700.00	0.00	0.00	700.00	-2,212.00	0.00	0.00	0.00	0.00	433,105.08	634,178.31
800.00	0.00	0.00	800.00	-2,112.00	0.00	0.00	0.00	0.00	433,105.08	634,178.31
900.00	0.00	0.00	900.00	-2,012.00	0.00	0.00	0.00	0.00	433,105.08	634,178.31
1,000.00	0.00	0.00	1,000.00	-1,912.00	0.00	0.00	0.00	0.00	433,105.08	634,178.31
1,100.00	0.00	0.00	1,100.00	-1,812.00	0.00	0.00	0.00	0.00	433,105.08	634,178.31
1,200.00	0.00	0.00	1,200.00	-1,712.00	0.00	0.00	0.00	0.00	433,105.08	634,178.31
1,300.00	0.00	0.00	1,300.00	-1,612.00	0.00	0.00	0.00	0.00	433,105.08	634,178.31
1,400.00	0.00	0.00	1,400.00	-1,512.00	0.00	0.00	0.00	0.00	433,105.08	634,178.31
1,500.00	0.00	0.00	1,500.00	-1,412.00	0.00	0.00	0.00	0.00	433,105.08	634,178.31
1,600.00	0.00	0.00	1,600.00	-1,312.00	0.00	0.00	0.00	0.00	433,105.08	634,178.31
1,700.00	0.00	0.00	1,700.00	-1,212.00	0.00	0.00	0.00	0.00	433,105.08	634,178.31
1,800.00	0.00	0.00	1,800.00	-1,112.00	0.00	0.00	0.00	0.00	433,105.08	634,178.31
1,900.00	0.00	0.00	1,900.00	-1,012.00	0.00	0.00	0.00	0.00	433,105.08	634,178.31
2,000.00	0.00	0.00	2,000.00	-912.00	0.00	0.00	0.00	0.00	433,105.08	634,178.31
2,100.00	0.00	0.00	2,100.00	-812.00	0.00	0.00	0.00	0.00	433,105.08	634,178.31
2,200.00	0.00	0.00	2,200.00	-712.00	0.00	0.00	0.00	0.00	433,105.08	634,178.31
2,300.00	0.00	0.00	2,300.00	-612.00	0.00	0.00	0.00	0.00	433,105.08	634,178.31
2,400.00	0.00	0.00	2,400.00	-512.00	0.00	0.00	0.00	0.00	433,105.08	634,178.31
2,500.00	0.00	0.00	2,500.00	-412.00	0.00	0.00	0.00	0.00	433,105.08	634,178.31
2,600.00	0.00	0.00	2,600.00	-312.00	0.00	0.00	0.00	0.00	433,105.08	634,178.31



Pathfinder Energy Services
Pathfinder X & Y Survey Report



Company: OGX Resources
Project: Eddy County (NAD 83)
Site: Mongo 25 Fed Com #2H
Well: Mongo 25 #2H
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference: Well Mongo 25 #2H
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North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Midland Database

Planned Survey

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	NIS (ft)	EW (ft)	V. Sec (ft)	Dleg (°/100ft)	Northing (ft)	Easting (ft)
2,700.00	0.00	0.00	2,700.00	-212.00	0.00	0.00	0.00	0.00	433,105.08	634,178.31
2,800.00	0.00	0.00	2,800.00	-112.00	0.00	0.00	0.00	0.00	433,105.08	634,178.31
2,900.00	0.00	0.00	2,900.00	-12.00	0.00	0.00	0.00	0.00	433,105.08	634,178.31
3,000.00	0.00	0.00	3,000.00	88.00	0.00	0.00	0.00	0.00	433,105.08	634,178.31
3,100.00	0.00	0.00	3,100.00	188.00	0.00	0.00	0.00	0.00	433,105.08	634,178.31
3,200.00	0.00	0.00	3,200.00	288.00	0.00	0.00	0.00	0.00	433,105.08	634,178.31
3,300.00	0.00	0.00	3,300.00	388.00	0.00	0.00	0.00	0.00	433,105.08	634,178.31
3,400.00	0.00	0.00	3,400.00	488.00	0.00	0.00	0.00	0.00	433,105.08	634,178.31
3,500.00	0.00	0.00	3,500.00	588.00	0.00	0.00	0.00	0.00	433,105.08	634,178.31
3,600.00	0.00	0.00	3,600.00	688.00	0.00	0.00	0.00	0.00	433,105.08	634,178.31
3,700.00	0.00	0.00	3,700.00	788.00	0.00	0.00	0.00	0.00	433,105.08	634,178.31
3,800.00	0.00	0.00	3,800.00	888.00	0.00	0.00	0.00	0.00	433,105.08	634,178.31
3,900.00	0.00	0.00	3,900.00	988.00	0.00	0.00	0.00	0.00	433,105.08	634,178.31
4,000.00	0.00	0.00	4,000.00	1,088.00	0.00	0.00	0.00	0.00	433,105.08	634,178.31
4,100.00	0.00	0.00	4,100.00	1,188.00	0.00	0.00	0.00	0.00	433,105.08	634,178.31
4,200.00	0.00	0.00	4,200.00	1,288.00	0.00	0.00	0.00	0.00	433,105.08	634,178.31
4,300.00	0.00	0.00	4,300.00	1,388.00	0.00	0.00	0.00	0.00	433,105.08	634,178.31
4,400.00	0.00	0.00	4,400.00	1,488.00	0.00	0.00	0.00	0.00	433,105.08	634,178.31
4,500.00	0.00	0.00	4,500.00	1,588.00	0.00	0.00	0.00	0.00	433,105.08	634,178.31
4,600.00	0.00	0.00	4,600.00	1,688.00	0.00	0.00	0.00	0.00	433,105.08	634,178.31
4,700.00	0.00	0.00	4,700.00	1,788.00	0.00	0.00	0.00	0.00	433,105.08	634,178.31
4,800.00	0.00	0.00	4,800.00	1,888.00	0.00	0.00	0.00	0.00	433,105.08	634,178.31
4,900.00	0.00	0.00	4,900.00	1,988.00	0.00	0.00	0.00	0.00	433,105.08	634,178.31
5,000.00	0.00	0.00	5,000.00	2,088.00	0.00	0.00	0.00	0.00	433,105.08	634,178.31
5,100.00	0.00	0.00	5,100.00	2,188.00	0.00	0.00	0.00	0.00	433,105.08	634,178.31
5,200.00	0.00	0.00	5,200.00	2,288.00	0.00	0.00	0.00	0.00	433,105.08	634,178.31
5,300.00	0.00	0.00	5,300.00	2,388.00	0.00	0.00	0.00	0.00	433,105.08	634,178.31



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Pathfinder X & Y Survey Report



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Well: Mongo 25 #2H
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Database:

Well Mongo 25 #2H
WELL @ 2912.00ft (Original Well Elev)
WELL @ 2912.00ft (Original Well Elev)
Grid
Minimum Curvature
Midland Database

Planned Survey

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5,400.00	0.00	0.00	5,400.00	2,488.00	0.00	0.00	0.00	0.00	433,105.08	634,178.31
5,500.00	0.00	0.00	5,500.00	2,588.00	0.00	0.00	0.00	0.00	433,105.08	634,178.31
5,600.00	0.00	0.00	5,600.00	2,688.00	0.00	0.00	0.00	0.00	433,105.08	634,178.31
5,700.00	0.00	0.00	5,700.00	2,788.00	0.00	0.00	0.00	0.00	433,105.08	634,178.31
5,800.00	0.00	0.00	5,800.00	2,888.00	0.00	0.00	0.00	0.00	433,105.08	634,178.31
5,900.00	0.00	0.00	5,900.00	2,988.00	0.00	0.00	0.00	0.00	433,105.08	634,178.31
6,000.00	0.00	0.00	6,000.00	3,088.00	0.00	0.00	0.00	0.00	433,105.08	634,178.31
6,100.00	0.00	0.00	6,100.00	3,188.00	0.00	0.00	0.00	0.00	433,105.08	634,178.31
6,200.00	0.00	0.00	6,200.00	3,288.00	0.00	0.00	0.00	0.00	433,105.08	634,178.31
6,300.00	0.00	0.00	6,300.00	3,388.00	0.00	0.00	0.00	0.00	433,105.08	634,178.31
6,400.00	0.00	0.00	6,400.00	3,488.00	0.00	0.00	0.00	0.00	433,105.08	634,178.31
6,500.00	0.00	0.00	6,500.00	3,588.00	0.00	0.00	0.00	0.00	433,105.08	634,178.31
6,600.00	0.00	0.00	6,600.00	3,688.00	0.00	0.00	0.00	0.00	433,105.08	634,178.31
6,700.00	0.00	0.00	6,700.00	3,788.00	0.00	0.00	0.00	0.00	433,105.08	634,178.31
6,800.00	0.00	0.00	6,800.00	3,888.00	0.00	0.00	0.00	0.00	433,105.08	634,178.31
6,872.50	0.00	0.00	6,872.50	3,960.50	0.00	0.00	0.00	0.00	433,105.08	634,178.31
KOP-6872.50°MD,0.00°INC,0.00°AZI										
6,875.00	0.30	270.11	6,875.00	3,963.00	0.00	-0.01	0.01	12.00	433,105.08	634,178.31
6,900.00	3.30	270.11	6,899.98	3,987.98	0.00	-0.79	0.79	12.00	433,105.08	634,177.52
6,925.00	6.30	270.11	6,924.89	4,012.89	0.01	-2.88	2.88	12.00	433,105.08	634,175.43
6,950.00	9.30	270.11	6,949.66	4,037.66	0.01	-6.27	6.27	12.00	433,105.09	634,172.04
6,975.00	12.30	270.11	6,974.21	4,062.21	0.02	-10.96	10.96	12.00	433,105.10	634,167.36
7,000.00	15.30	270.11	6,998.49	4,086.49	0.03	-16.92	16.92	12.00	433,105.11	634,161.39
7,025.00	18.30	270.11	7,022.42	4,110.42	0.05	-24.14	24.14	12.00	433,105.12	634,154.17
7,050.00	21.29	270.11	7,045.94	4,133.94	0.06	-32.61	32.61	12.00	433,105.14	634,145.71
7,075.00	24.29	270.11	7,068.99	4,156.99	0.08	-42.29	42.29	12.00	433,105.16	634,136.02
7,100.00	27.29	270.11	7,091.49	4,179.49	0.10	-53.17	53.17	12.00	433,105.18	634,125.14



Pathfinder Energy Services

Pathfinder X & Y Survey Report



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 Site: Mongo 25 Fed Com #2H
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Local Co-ordinate Reference:
 TVD Reference:
 MD Reference:
 North Reference:
 Survey Calculation Method:
 Database:

Well Mongo 25 #2H
 WELL @ 2912.00ft (Original Well Elev)
 WELL @ 2912.00ft (Original Well Elev)
 Grid
 Minimum Curvature
 Midland Database

Planned Survey

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	EW (ft)	V. Sec (ft)	Dleg (°/100ft)	Northing (ft)	Easting (ft)
7,125.00	30.29	270.11	7,113.40	4,201.40	0.13	-65.21	65.21	12.00	433,105.20	634,113.10
7,150.00	33.29	270.11	7,134.65	4,222.65	0.15	-78.38	78.38	12.00	433,105.23	634,099.93
7,175.00	36.29	270.11	7,155.17	4,243.17	0.18	-92.64	92.64	12.00	433,105.25	634,085.67
7,200.00	39.29	270.11	7,174.93	4,262.93	0.21	-107.96	107.96	12.00	433,105.28	634,070.35
7,225.00	42.29	270.11	7,193.85	4,281.85	0.24	-124.29	124.29	12.00	433,105.31	634,054.02
7,250.00	45.29	270.11	7,211.90	4,299.90	0.27	-141.59	141.59	12.00	433,105.35	634,036.72
7,275.00	48.29	270.11	7,229.01	4,317.01	0.31	-159.81	159.81	12.00	433,105.38	634,018.51
7,300.00	51.29	270.11	7,245.15	4,333.15	0.34	-178.90	178.90	12.00	433,105.42	633,999.42
7,325.00	54.29	270.11	7,260.27	4,348.27	0.38	-198.80	198.80	12.00	433,105.46	633,979.51
7,350.00	57.29	270.11	7,274.33	4,362.33	0.42	-219.48	219.48	12.00	433,105.50	633,958.84
7,375.00	60.29	270.11	7,287.28	4,375.28	0.46	-240.85	240.85	12.00	433,105.54	633,937.46
7,400.00	63.29	270.11	7,299.10	4,387.10	0.50	-262.88	262.88	12.00	433,105.58	633,915.43
7,425.00	66.28	270.11	7,309.75	4,397.75	0.55	-285.50	285.50	12.00	433,105.62	633,892.82
7,450.00	69.28	270.11	7,319.20	4,407.20	0.59	-308.64	308.64	12.00	433,105.67	633,869.68
7,475.00	72.28	270.11	7,327.43	4,415.43	0.64	-332.24	332.24	12.00	433,105.71	633,846.07
7,500.00	75.28	270.11	7,334.41	4,422.41	0.68	-356.24	356.25	12.00	433,105.76	633,822.07
7,525.00	78.28	270.11	7,340.12	4,428.12	0.73	-380.58	380.58	12.00	433,105.81	633,797.73
7,550.00	81.28	270.11	7,344.56	4,432.56	0.78	-405.18	405.18	12.00	433,105.85	633,773.13
7,575.00	84.28	270.11	7,347.70	4,435.70	0.83	-429.98	429.98	12.00	433,105.90	633,748.33
7,600.00	87.28	270.11	7,349.54	4,437.54	0.87	-454.91	454.91	12.00	433,105.95	633,723.40
7,625.00	90.28	270.11	7,350.07	4,438.07	0.92	-479.90	479.90	12.00	433,106.00	633,698.41
7,631.26	91.03	270.11	7,350.00	4,438.00	0.93	-486.16	486.16	12.00	433,106.01	633,692.15
EOC-7631.26	91.03	270.11	7,348.76	4,436.76	1.07	-554.89	554.89	0.00	433,106.14	633,623.42
7,700.00	91.03	270.11	7,346.97	4,434.97	1.26	-664.87	664.87	0.00	433,106.33	633,523.44
7,800.00	91.03	270.11	7,346.17	4,433.17	1.45	-754.86	754.86	0.00	433,106.52	633,423.46
8,000.00	91.03	270.11	7,343.37	4,431.37	1.64	-854.84	854.84	0.00	433,106.72	633,323.47



Pathfinder Energy Services

Pathfinder X & Y Survey Report



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 Design: Plan #1

Local Co-ordinate Reference: Well Mongo 25 #2H
 TVD Reference: WELL @ 2912.00ft (Original Well Elev)
 MD Reference: WELL @ 2912.00ft (Original Well Elev)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: Midland Database

Planned Survey

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	NS (ft)	E/W (ft)	V. Sec (ft)	Dleg (°/100ft)	Northing (ft)	Easting (ft)
8,100.00	91.03	270.11	7,341.57	4,429.57	1.83	-954.82	954.82	0.00	433,106.91	633,223.49
8,200.00	91.03	270.11	7,339.78	4,427.78	2.03	-1,054.81	1,054.81	0.00	433,107.10	633,123.51
8,300.00	91.03	270.11	7,337.98	4,425.98	2.22	-1,154.79	1,154.79	0.00	433,107.29	633,023.52
8,400.00	91.03	270.11	7,336.18	4,424.18	2.41	-1,254.77	1,254.78	0.00	433,107.48	632,923.54
8,500.00	91.03	270.11	7,334.38	4,422.38	2.60	-1,354.76	1,354.76	0.00	433,107.68	632,823.56
8,600.00	91.03	270.11	7,332.59	4,420.59	2.79	-1,454.74	1,454.74	0.00	433,107.87	632,723.57
8,700.00	91.03	270.11	7,330.79	4,418.79	2.98	-1,554.72	1,554.73	0.00	433,108.06	632,623.59
8,800.00	91.03	270.11	7,328.99	4,416.99	3.18	-1,654.71	1,654.71	0.00	433,108.25	632,523.60
8,900.00	91.03	270.11	7,327.19	4,415.19	3.37	-1,754.69	1,754.70	0.00	433,108.44	632,423.62
9,000.00	91.03	270.11	7,325.40	4,413.40	3.56	-1,854.68	1,854.68	0.00	433,108.64	632,323.64
9,100.00	91.03	270.11	7,323.60	4,411.60	3.75	-1,954.66	1,954.66	0.00	433,108.83	632,223.65
9,200.00	91.03	270.11	7,321.80	4,409.80	3.94	-2,054.64	2,054.65	0.00	433,109.02	632,123.67
9,300.00	91.03	270.11	7,320.00	4,408.00	4.14	-2,154.63	2,154.63	0.00	433,109.21	632,023.69
9,400.00	91.03	270.11	7,318.21	4,406.21	4.33	-2,254.61	2,254.61	0.00	433,109.40	631,923.70
9,500.00	91.03	270.11	7,316.41	4,404.41	4.52	-2,354.59	2,354.60	0.00	433,109.60	631,823.72
9,600.00	91.03	270.11	7,314.61	4,402.61	4.71	-2,454.58	2,454.58	0.00	433,109.79	631,723.74
9,700.00	91.03	270.11	7,312.81	4,400.81	4.90	-2,554.56	2,554.57	0.00	433,109.98	631,623.75
9,800.00	91.03	270.11	7,311.01	4,399.01	5.10	-2,654.54	2,654.55	0.00	433,110.17	631,523.77
9,900.00	91.03	270.11	7,309.22	4,397.22	5.29	-2,754.53	2,754.53	0.00	433,110.36	631,423.78
10,000.00	91.03	270.11	7,307.42	4,395.42	5.48	-2,854.51	2,854.52	0.00	433,110.56	631,323.80
10,100.00	91.03	270.11	7,305.62	4,393.62	5.67	-2,954.50	2,954.50	0.00	433,110.75	631,223.82
10,200.00	91.03	270.11	7,303.82	4,391.82	5.86	-3,054.48	3,054.49	0.00	433,110.94	631,123.83
10,300.00	91.03	270.11	7,302.03	4,390.03	6.06	-3,154.46	3,154.47	0.00	433,111.13	631,023.85
10,400.00	91.03	270.11	7,300.23	4,388.23	6.25	-3,254.45	3,254.45	0.00	433,111.32	630,923.87
10,500.00	91.03	270.11	7,298.43	4,386.43	6.44	-3,354.43	3,354.44	0.00	433,111.52	630,823.88
10,600.00	91.03	270.11	7,296.63	4,384.63	6.63	-3,454.41	3,454.42	0.00	433,111.71	630,723.90
10,700.00	91.03	270.11	7,294.84	4,382.84	6.82	-3,554.40	3,554.40	0.00	433,111.90	630,623.92



Pathfinder Energy Services
Pathfinder X & Y Survey Report



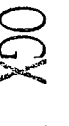
Company: OGX Resources
Project: Eddy County (NAD 83)
Site: Mongo 25 Fed Com #2H
Well: Mongo 25 #2H
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Local Co-ordinate Reference:
TVD Reference: Well Mongo 25 #2H
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Survey Calculation Method: Grid
Database: Minimum Curvature
Midland Database

Planned Survey

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	Dleg (°/100ft)	Northing (ft)	Easting (ft)
10,800.00	91.03	270.11	7,293.04	4,381.04	7.02	-3,654.38	3,654.39	0.00	433,112.09	630,523.93
10,900.00	91.03	270.11	7,291.24	4,379.24	7.21	-3,754.37	3,754.37	0.00	433,112.28	630,423.95
11,000.00	91.03	270.11	7,289.44	4,377.44	7.40	-3,854.35	3,854.36	0.00	433,112.47	630,323.96
11,100.00	91.03	270.11	7,287.65	4,375.65	7.59	-3,954.33	3,954.34	0.00	433,112.67	630,223.98
11,200.00	91.03	270.11	7,285.85	4,373.85	7.78	-4,054.32	4,054.32	0.00	433,112.86	630,124.00
11,300.00	91.03	270.11	7,284.05	4,372.05	7.98	-4,154.30	4,154.31	0.00	433,113.05	630,024.01
11,400.00	91.03	270.11	7,282.25	4,370.25	8.17	-4,254.28	4,254.29	0.00	433,113.24	629,924.03
11,500.00	91.03	270.11	7,280.46	4,368.46	8.36	-4,354.27	4,354.28	0.00	433,113.43	629,824.05
11,600.00	91.03	270.11	7,278.66	4,366.66	8.55	-4,454.25	4,454.26	0.00	433,113.63	629,724.06
11,700.00	91.03	270.11	7,276.86	4,364.86	8.74	-4,554.23	4,554.24	0.00	433,113.82	629,624.08
11,800.00	91.03	270.11	7,275.06	4,363.06	8.94	-4,654.22	4,654.23	0.00	433,114.01	629,524.09
11,817.96	91.03	270.11	7,274.74	4,362.74	8.97	-4,672.17	4,672.18	0.00	433,114.04	629,506.14

BHL-11817.96°MD,91.03°INC,270.11°AZI,7274.74°TVD,4672.18°VS,8.97°N,-4672.18°E - PBHL (Mongo #2H)



Pathfinder Energy Services
Pathfinder X & Y Survey Report



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Site: Mongo 25 Fed Com #2H
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Wellbore: OH
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Local Co-ordinate Reference:
TVD Reference: Well Mongo 25 #2H
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Survey Calculation Method: Grid
Database: Minimum Curvature
Midland Database

Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/S (ft)	+E/W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- hit/miss target									
- Shape									
PBHL (Mongo #2H)	0.00	0.00	7,275.00	8.55	-4,672.18	433,113.628	629,506.133	32° 11' 25.388 N	104° 2' 53.943 W
- plan hits target									
- Point									

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/S (ft)	+E/W (ft)	Comment
6,872.50	6,872.50	0.00	0.00	KOP-6872.50MD,0.00°INC,0.00°AZI
7,631.26	7,350.00	0.93	-486.16	EOC-7631.26MD,91.03°INC,270.11°AZI,12.00°DLS,486.16VS,0.93N
11,817.96	7,274.74	8.97	-4,672.18	BHL-11817.96MD,91.03°INC,270.11°AZI,7274.74TVD,4672.18VS,8

Checked By: _____

Approved By: _____

Date: _____