

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

RECEIVED State of New Mexico
Energy Minerals and Natural Resources
AUG 20 2010
Oil Conservation Division
HOBBSOCD 1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-101
June 16, 2008

Submit to appropriate District Office

☐ AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

¹ Operator Name and Address OGX RESOURCES, LLC. P. O. BOX 2064 MIDLAND, TEXAS 79702		² OGRID Number 217955
³ Property Code 38287	⁴ Property Name NLA STATE UNIT	⁵ Well No. 1H
⁶ Proposed Pool 1 FLYING M ABO SOUTH (24590)		⁷ Proposed Pool 2

7 Surface Location

UL or lot no.	Section	Township	Range	Lot 1dn	Feet from the	North/South line	Feet from the	East/West line	County
M	18	9S	33E		480'	SOUTH	480'	WEST	LEA

8 Proposed Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot 1dn	Feet from the	North/South line	Feet from the	East/West line	County
D	18	9S	33E		330'	NORTH	480'	WEST	LEA

Additional Well Information

¹¹ Work Type Code N	¹² Well Type Code O	¹³ Cable/Rotary ROTARY	¹⁴ Lease Type Code S	¹⁵ Ground Level Elevation 4404'
¹⁶ Multiple NO	¹⁷ Proposed Depth TVD-8410' MD12,675	¹⁸ Formation ABO	¹⁹ Contractor JW DRILLING CO.	²⁰ Spud Date WHEN APPROVED

21 Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
26"	20"	Conductor	40'	Redi-mix	Surface
17 1/2"	13 3/8"	54.5#	320'	345 Sx.	Surface
12 1/4"	9 5/8"	36#	4000'	1305 Sx.	Surface
8 3/4"	7"	29#	8675'	630 Sx.	3700' FS
6 1/8"	4 1/2"	11.6#	12,675-7500'	587 Sx.	Top of Liner

²² Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

**Permit Expires 2 Years From Approval
Date Unless Drilling Underway**

SEE ATTACHED SHEET FOR DETAIL

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief.		OIL CONSERVATION DIVISION	
Signature: <i>Joe T. Janica</i>		Approved by: <i>[Signature]</i>	
Printed name: Joe T. Janica		Title: PETROLEUM ENGINEER	
Title: Permit Eng.		Approval Date: AUG 23 2010	Expiration Date:
E-mail Address: joejanica@valornet.com		CONDITION OF APPROVAL FOR APD'S "Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string."	
Date: 08/20/10	Phone: 575-391-8503		

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 Department

Form C-102
Revised October 15, 2009

Submit one copy to appropriate
District Office

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-025-39881	Pool Code 24590	Pool Name FLYING M ABO SOUTH
Property Code 38287	Property Name NLA STATE UNIT	Well Number 1H
OGRID No. 217955	Operator Name OGX RESOURCES, LLC	Elevation 4404'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	18	09 S	33 E		480	SOUTH	480	WEST	LEA

Bottom Hole Location If Different From Surface

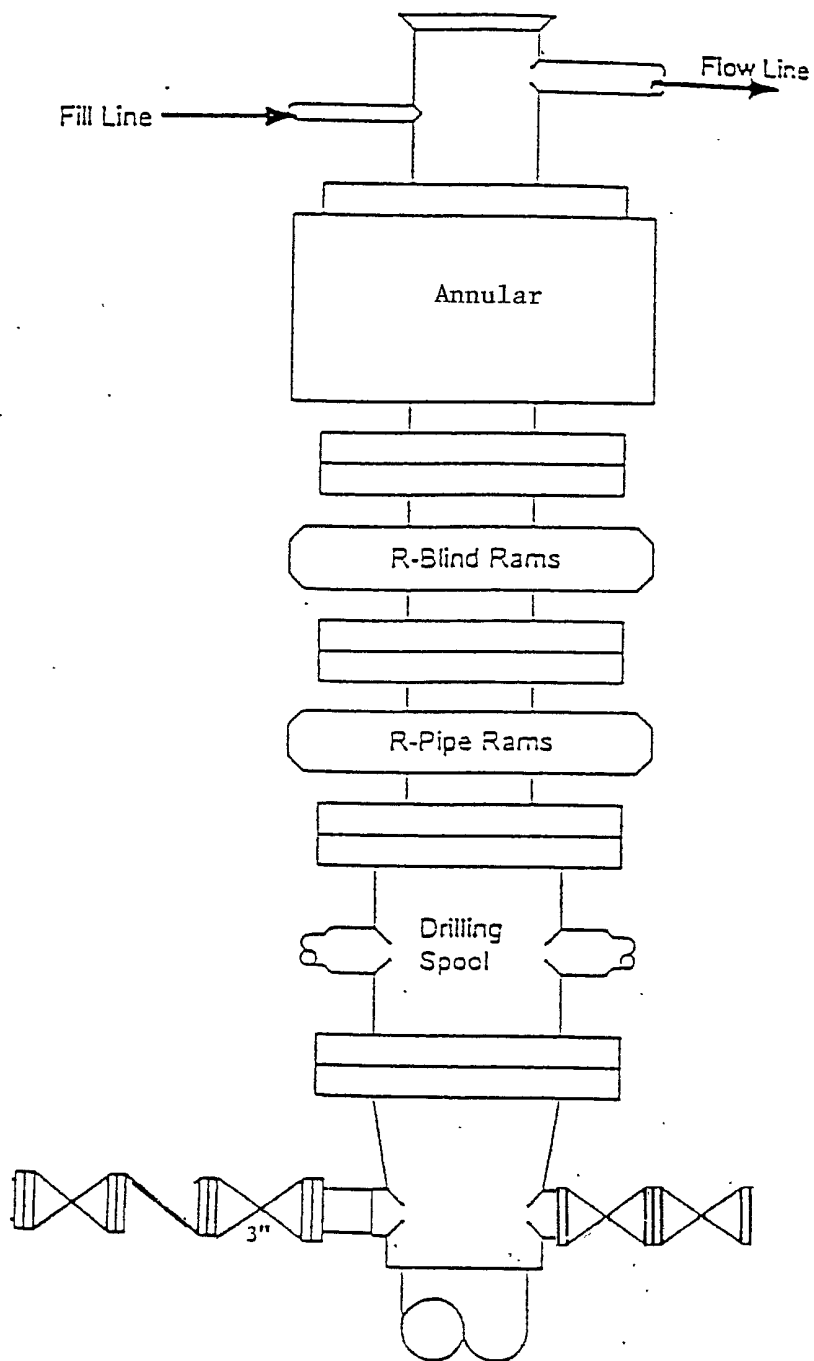
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	18	09 S	33 E		330	NORTH	480	WEST	LEA

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
160			

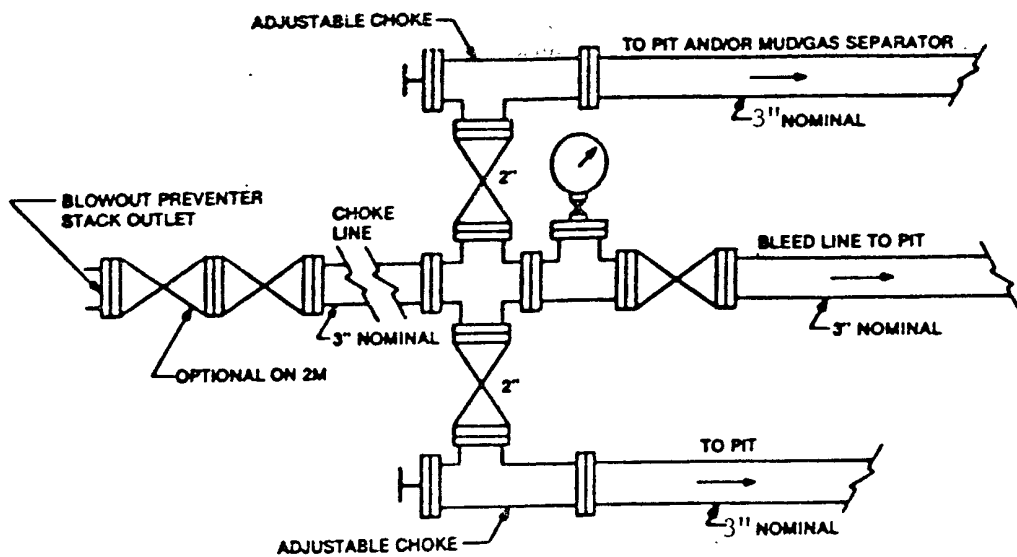
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

PROPOSED BOTTOM HOLE LOCATION Lat - N 33°32'21.47" Long - W 103°36'51.74" NMSPCE- N 924514.671 E 760405.729 (NAD-83) PROJECT AREA PRODUCING AREA SURFACE LOCATION Lat - N 33°31'37.31" Long - W 103°36'52.07" NMSPCE- N 920051.324 E 760408.095 (NAD-83) POE 760' FSL & 480' FWL	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 or has a right to drill this well at this 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. <i>Joe T. Janica</i> Signature Date Joe T. Janica 08/20/10 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. APRIL 14, 2010 Date Surveyed Signature & Seal of Professional Surveyor Certificate No. Gary L. Jones 7977
	Basin Surveys

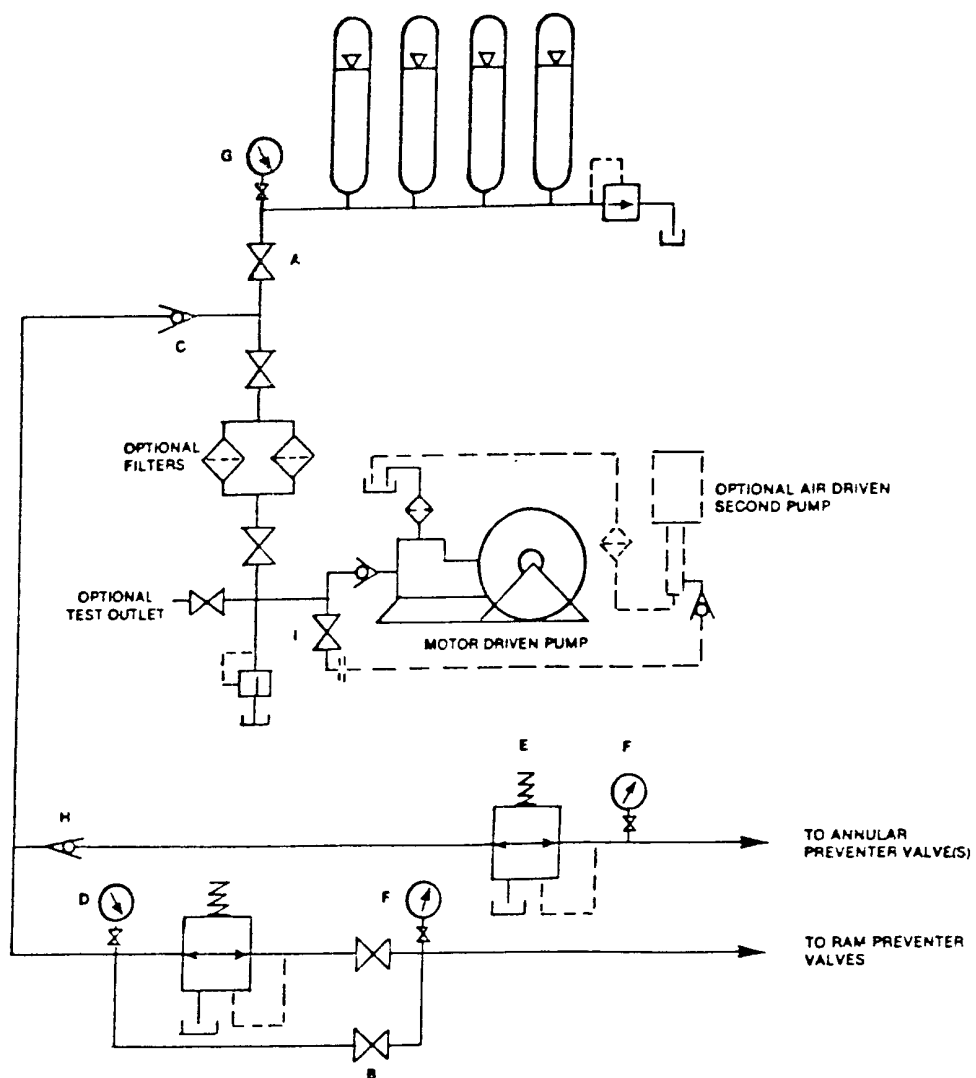
1. Drill a 26" hole to 40'. Set 40' of 20" conductor pipe and cement to surface with Redi-mix.
2. Drill 17½" hole to 320'. Run and set 320' of 13 3/8" 54/5# K-55 ST&C casing. Cement with 145 Sx. of Class "C" cement + 4% Bentonite, + 1% CaCl, + 0.125#/Sx., Yield 1.73, tail in with 200 Sx. of Class "C" cement + 2% CaCl, yield 1.34, circulate cement to surface.
3. Drill 12¼" hole to 4000'. Run and set 4000' of 9 5/8" 36# J-55 ST&C casing. Cement with 1105 Sx. of Class "C" cement + 5% Salt, + D132 Extender, + 2% Bentonite, + 4# LCM LCM/Sx. + 0.125# Celo Flakes/Sx. Yield 1.96, tail in with 200 Sx. of Class "C" cement Yield 1.33, circulate cement to surface.
4. Drill 8 3/4" hole to 8675' MD. Run and set 8675' of 7" 29# P-110 LT&C casing. Cement with 190 Sx. of Class "H" cement + 5% Salt, + D132 Extender, + 10% Bentonite, + 0.125 # Celoflakes/Sx. + D112C; + 0.2% anti-foamer, Yield 2.57, tail in with 440 Sx. of TXI Light weight cement, + 0.2% fluid loss, + 0.2% dispersant, + 0.2% anti foamer, + 0.3% retarder, Yield 1.39 estimate top of cement 3700' from surface.
5. Drill 6 1/8" hole from 8675' to 12,675' MD. Run and set a 5175' 4 1/2" 11.6# P-110 BT&C liner. hang liner at 7500±'. Cement with 587 Sx. of Class "H" cement + D132 Extender, + 2% Bentonite, + Do46Foam preventor, + D112 fluid loss additive, + D065 dispersant, Yield 1.24. cement to top of liner.



Type 900 Series
3000 psi WP

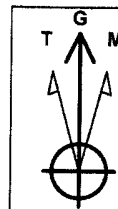


Typical choke manifold assembly for 3M WP system





PROJECT DETAILS: Lea County
Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level
Local North: Grid



Azimuths to Grid North
True North: -0.40°
Magnetic North: 7.39°

Magnetic Field
Strength: 49500.3snT
Dip Angle: 61.42°
Date: 08/16/2010
Model: IGRF200510

PATHFINDER

Project: Lea County
Site: NLA State Unit
Well: #1H
Wellbore: OH
Plan: Plan #1 (#1H/OH)

WELL DETAILS: #1H

Ground Elevation: 4404.00
RKB Elevation: WELL @ 4423.00R (Original Well Elev)
Rig Name: Original Well Elev

+N-S	+E-W	Northing	Easting	Latitude	Longitude	Spot
0.00	0.00	919985.994	719231.375	33° 31' 36.947 N	103° 36' 50.238 W	

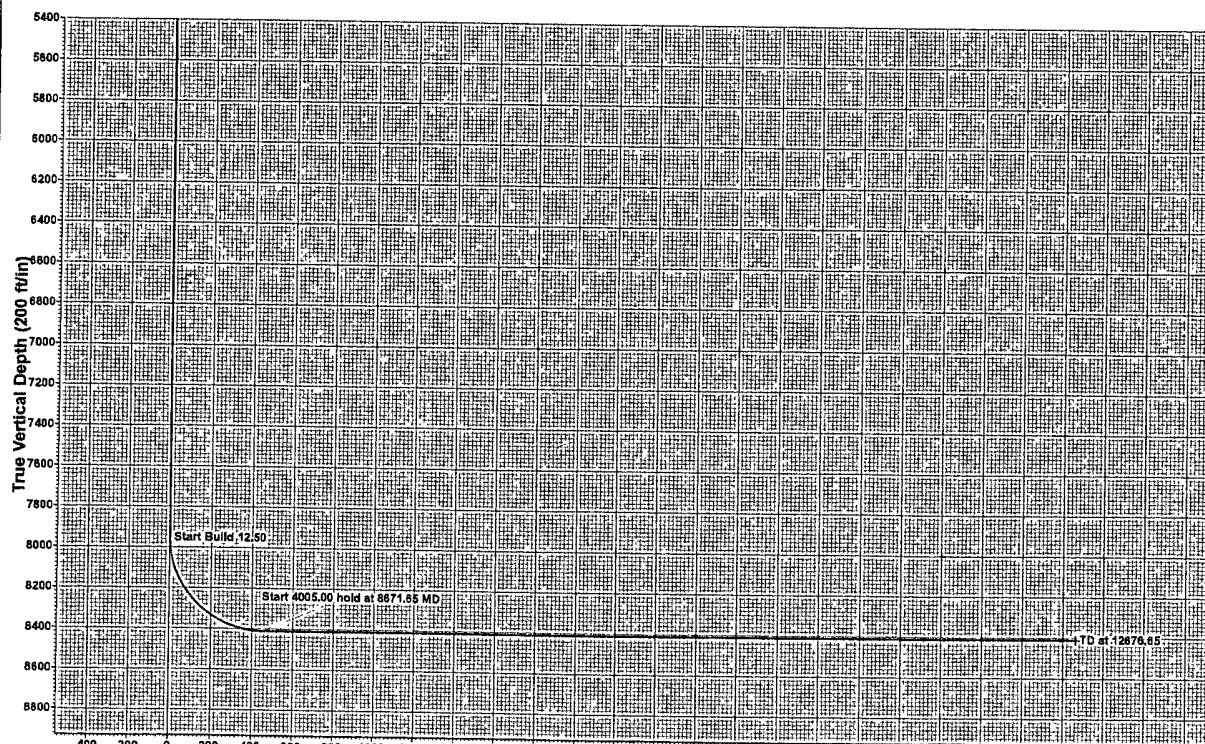
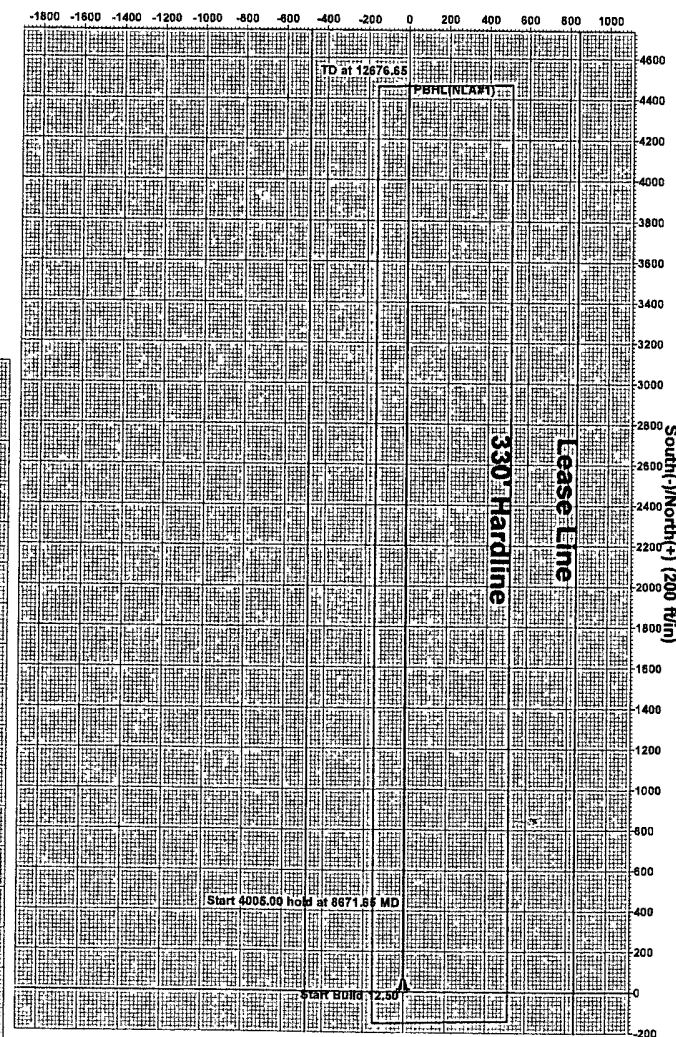
SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N-S	+E-W	DLeg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	7951.60	0.00	0.00	7951.60	0.00	0.00	0.00	0.00	0.00	
3	8671.65	90.00	359.96	8410.00	458.40	-0.32	12.50	359.96	458.40	
4	12676.65	90.00	359.96	8410.00	4463.40	-3.12	0.00	0.00	4463.40	PBHL(NLA#1)

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N-S	+E-W	Northing	Easting	Shape
PBHL(NLA#1)	4463.40	4463.40	-2.35	924449.394	719229.027	Point

West(-)/East(+) (200 ft/in)



Vertical Section at 359.96° (200 ft/in)

Plan: Plan #1 (#1H/OH)

Created By: Nate Bingham Date: 8/08, August 16 2010

Checked: _____ Date: _____

OGX

OGX Resources

Lea County
NLA State Unit
#1H
OH

RECEIVED

AUG 20 2010
HOBBSOCD

Plan: Plan #1

Pathfinder X & Y Planning Report

16 August, 2010

PATHFINDER



Pathfinder
Pathfinder X & Y Planning Report



Company: OGX Resources		Local Co-ordinate Reference: Well #1H	
Project: Lea County		TVD Reference: WELL @ 4423.00ft (Original Well Elev)	
Site: NLA State Unit		MD Reference: WELL @ 4423.00ft (Original Well Elev)	
Well: #1H		North Reference: Grid	
Wellbore: OH		Survey Calculation Method: Minimum Curvature	
Design: Plan #1		Database: Midland Database	

Project Lea County			
Map System: US State Plane 1927 (Exact solution)		System Datum: Mean Sea Level	
Geo Datum: NAD 1927 (NADCON CONUS)			
Map Zone: New Mexico East 3001			

Site NLA State Unit			
Site Position:		Northing: 919,985.994 ft	Latitude: 33° 31' 36.947 N
From: Map		Easting: 719,231.375 ft	Longitude: 103° 36' 50.238 W
Position Uncertainty: 0.00 ft		Slot Radius: "	Grid Convergence: 0.40 °

Well #1H			
Well Position	+N/-S 0.00 ft	Northing: 919,985.994 ft	Latitude: 33° 31' 36.947 N
	+E/-W 0.00 ft	Easting: 719,231.375 ft	Longitude: 103° 36' 50.238 W
Position Uncertainty 0.00 ft		Wellhead Elevation: ft	Ground Level: 4,404.00 ft

Wellbore OH			
--------------------	--	--	--

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	08/16/2010	7.79	61.42	49,500

Design Plan #1			
Audit Notes:			
Version:	Phase: PROTOTYPE	Tie On Depth: 0.00	

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	359.96

Survey Tool Program Date 08/16/2010				
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.00	12,676.65	Plan #1 (OH)	MWD	MWD - Standard



Pathfinder
Pathfinder X & Y Planning Report



Company:	OGX Resources	Local Co-ordinate Reference:	Well #1H
Project:	Lea County	TVD Reference:	WELL @ 4423.00ft (Original Well Elev)
Site:	NLA State Unit	MD Reference:	WELL @ 4423.00ft (Original Well Elev)
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	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)	
0.00	0.00	0.00	0.00	-4,423.00	0.00	0.00	0.00	0.00	919,985.99	719,231.38	
100.00	0.00	0.00	100.00	-4,323.00	0.00	0.00	0.00	0.00	919,985.99	719,231.38	
200.00	0.00	0.00	200.00	-4,223.00	0.00	0.00	0.00	0.00	919,985.99	719,231.38	
300.00	0.00	0.00	300.00	-4,123.00	0.00	0.00	0.00	0.00	919,985.99	719,231.38	
400.00	0.00	0.00	400.00	-4,023.00	0.00	0.00	0.00	0.00	919,985.99	719,231.38	
500.00	0.00	0.00	500.00	-3,923.00	0.00	0.00	0.00	0.00	919,985.99	719,231.38	
600.00	0.00	0.00	600.00	-3,823.00	0.00	0.00	0.00	0.00	919,985.99	719,231.38	
700.00	0.00	0.00	700.00	-3,723.00	0.00	0.00	0.00	0.00	919,985.99	719,231.38	
800.00	0.00	0.00	800.00	-3,623.00	0.00	0.00	0.00	0.00	919,985.99	719,231.38	
900.00	0.00	0.00	900.00	-3,523.00	0.00	0.00	0.00	0.00	919,985.99	719,231.38	
1,000.00	0.00	0.00	1,000.00	-3,423.00	0.00	0.00	0.00	0.00	919,985.99	719,231.38	
1,100.00	0.00	0.00	1,100.00	-3,323.00	0.00	0.00	0.00	0.00	919,985.99	719,231.38	
1,200.00	0.00	0.00	1,200.00	-3,223.00	0.00	0.00	0.00	0.00	919,985.99	719,231.38	
1,300.00	0.00	0.00	1,300.00	-3,123.00	0.00	0.00	0.00	0.00	919,985.99	719,231.38	
1,400.00	0.00	0.00	1,400.00	-3,023.00	0.00	0.00	0.00	0.00	919,985.99	719,231.38	
1,500.00	0.00	0.00	1,500.00	-2,923.00	0.00	0.00	0.00	0.00	919,985.99	719,231.38	
1,600.00	0.00	0.00	1,600.00	-2,823.00	0.00	0.00	0.00	0.00	919,985.99	719,231.38	
1,700.00	0.00	0.00	1,700.00	-2,723.00	0.00	0.00	0.00	0.00	919,985.99	719,231.38	
1,800.00	0.00	0.00	1,800.00	-2,623.00	0.00	0.00	0.00	0.00	919,985.99	719,231.38	
1,900.00	0.00	0.00	1,900.00	-2,523.00	0.00	0.00	0.00	0.00	919,985.99	719,231.38	
2,000.00	0.00	0.00	2,000.00	-2,423.00	0.00	0.00	0.00	0.00	919,985.99	719,231.38	
2,100.00	0.00	0.00	2,100.00	-2,323.00	0.00	0.00	0.00	0.00	919,985.99	719,231.38	
2,200.00	0.00	0.00	2,200.00	-2,223.00	0.00	0.00	0.00	0.00	919,985.99	719,231.38	
2,300.00	0.00	0.00	2,300.00	-2,123.00	0.00	0.00	0.00	0.00	919,985.99	719,231.38	
2,400.00	0.00	0.00	2,400.00	-2,023.00	0.00	0.00	0.00	0.00	919,985.99	719,231.38	
2,500.00	0.00	0.00	2,500.00	-1,923.00	0.00	0.00	0.00	0.00	919,985.99	719,231.38	
2,600.00	0.00	0.00	2,600.00	-1,823.00	0.00	0.00	0.00	0.00	919,985.99	719,231.38	



Pathfinder
Pathfinder X & Y Planning Report



Company:	OGX Resources	Local Co-ordinate Reference:	Well #1H
Project:	Lea County	TVD Reference:	WELL @ 4423.00ft (Original Well Elev)
Site:	NLA State Unit	MD Reference:	WELL @ 4423.00ft (Original Well Elev)
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	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)	
2,700.00	0.00	0.00	2,700.00	-1,723.00	0.00	0.00	0.00	0.00	919,985.99	719,231.38	
2,800.00	0.00	0.00	2,800.00	-1,623.00	0.00	0.00	0.00	0.00	919,985.99	719,231.38	
2,900.00	0.00	0.00	2,900.00	-1,523.00	0.00	0.00	0.00	0.00	919,985.99	719,231.38	
3,000.00	0.00	0.00	3,000.00	-1,423.00	0.00	0.00	0.00	0.00	919,985.99	719,231.38	
3,100.00	0.00	0.00	3,100.00	-1,323.00	0.00	0.00	0.00	0.00	919,985.99	719,231.38	
3,200.00	0.00	0.00	3,200.00	-1,223.00	0.00	0.00	0.00	0.00	919,985.99	719,231.38	
3,300.00	0.00	0.00	3,300.00	-1,123.00	0.00	0.00	0.00	0.00	919,985.99	719,231.38	
3,400.00	0.00	0.00	3,400.00	-1,023.00	0.00	0.00	0.00	0.00	919,985.99	719,231.38	
3,500.00	0.00	0.00	3,500.00	-923.00	0.00	0.00	0.00	0.00	919,985.99	719,231.38	
3,600.00	0.00	0.00	3,600.00	-823.00	0.00	0.00	0.00	0.00	919,985.99	719,231.38	
3,700.00	0.00	0.00	3,700.00	-723.00	0.00	0.00	0.00	0.00	919,985.99	719,231.38	
3,800.00	0.00	0.00	3,800.00	-623.00	0.00	0.00	0.00	0.00	919,985.99	719,231.38	
3,900.00	0.00	0.00	3,900.00	-523.00	0.00	0.00	0.00	0.00	919,985.99	719,231.38	
4,000.00	0.00	0.00	4,000.00	-423.00	0.00	0.00	0.00	0.00	919,985.99	719,231.38	
4,100.00	0.00	0.00	4,100.00	-323.00	0.00	0.00	0.00	0.00	919,985.99	719,231.38	
4,200.00	0.00	0.00	4,200.00	-223.00	0.00	0.00	0.00	0.00	919,985.99	719,231.38	
4,300.00	0.00	0.00	4,300.00	-123.00	0.00	0.00	0.00	0.00	919,985.99	719,231.38	
4,400.00	0.00	0.00	4,400.00	-23.00	0.00	0.00	0.00	0.00	919,985.99	719,231.38	
4,500.00	0.00	0.00	4,500.00	77.00	0.00	0.00	0.00	0.00	919,985.99	719,231.38	
4,600.00	0.00	0.00	4,600.00	177.00	0.00	0.00	0.00	0.00	919,985.99	719,231.38	
4,700.00	0.00	0.00	4,700.00	277.00	0.00	0.00	0.00	0.00	919,985.99	719,231.38	
4,800.00	0.00	0.00	4,800.00	377.00	0.00	0.00	0.00	0.00	919,985.99	719,231.38	
4,900.00	0.00	0.00	4,900.00	477.00	0.00	0.00	0.00	0.00	919,985.99	719,231.38	
5,000.00	0.00	0.00	5,000.00	577.00	0.00	0.00	0.00	0.00	919,985.99	719,231.38	
5,100.00	0.00	0.00	5,100.00	677.00	0.00	0.00	0.00	0.00	919,985.99	719,231.38	
5,200.00	0.00	0.00	5,200.00	777.00	0.00	0.00	0.00	0.00	919,985.99	719,231.38	
5,300.00	0.00	0.00	5,300.00	877.00	0.00	0.00	0.00	0.00	919,985.99	719,231.38	



Pathfinder
Pathfinder X & Y Planning Report



Company:	OGX Resources	Local Co-ordinate Reference:	Well #1H
Project:	Lea County	TVD Reference:	WELL @ 4423.00ft (Original Well Elev)
Site:	NLA State Unit	MD Reference:	WELL @ 4423.00ft (Original Well Elev)
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	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)	
5,400.00	0.00	0.00	5,400.00	977.00	0.00	0.00	0.00	0.00	919,985.99	719,231.38	
5,500.00	0.00	0.00	5,500.00	1,077.00	0.00	0.00	0.00	0.00	919,985.99	719,231.38	
5,600.00	0.00	0.00	5,600.00	1,177.00	0.00	0.00	0.00	0.00	919,985.99	719,231.38	
5,700.00	0.00	0.00	5,700.00	1,277.00	0.00	0.00	0.00	0.00	919,985.99	719,231.38	
5,800.00	0.00	0.00	5,800.00	1,377.00	0.00	0.00	0.00	0.00	919,985.99	719,231.38	
5,900.00	0.00	0.00	5,900.00	1,477.00	0.00	0.00	0.00	0.00	919,985.99	719,231.38	
6,000.00	0.00	0.00	6,000.00	1,577.00	0.00	0.00	0.00	0.00	919,985.99	719,231.38	
6,100.00	0.00	0.00	6,100.00	1,677.00	0.00	0.00	0.00	0.00	919,985.99	719,231.38	
6,200.00	0.00	0.00	6,200.00	1,777.00	0.00	0.00	0.00	0.00	919,985.99	719,231.38	
6,300.00	0.00	0.00	6,300.00	1,877.00	0.00	0.00	0.00	0.00	919,985.99	719,231.38	
6,400.00	0.00	0.00	6,400.00	1,977.00	0.00	0.00	0.00	0.00	919,985.99	719,231.38	
6,500.00	0.00	0.00	6,500.00	2,077.00	0.00	0.00	0.00	0.00	919,985.99	719,231.38	
6,600.00	0.00	0.00	6,600.00	2,177.00	0.00	0.00	0.00	0.00	919,985.99	719,231.38	
6,700.00	0.00	0.00	6,700.00	2,277.00	0.00	0.00	0.00	0.00	919,985.99	719,231.38	
6,800.00	0.00	0.00	6,800.00	2,377.00	0.00	0.00	0.00	0.00	919,985.99	719,231.38	
6,900.00	0.00	0.00	6,900.00	2,477.00	0.00	0.00	0.00	0.00	919,985.99	719,231.38	
7,000.00	0.00	0.00	7,000.00	2,577.00	0.00	0.00	0.00	0.00	919,985.99	719,231.38	
7,100.00	0.00	0.00	7,100.00	2,677.00	0.00	0.00	0.00	0.00	919,985.99	719,231.38	
7,200.00	0.00	0.00	7,200.00	2,777.00	0.00	0.00	0.00	0.00	919,985.99	719,231.38	
7,300.00	0.00	0.00	7,300.00	2,877.00	0.00	0.00	0.00	0.00	919,985.99	719,231.38	
7,400.00	0.00	0.00	7,400.00	2,977.00	0.00	0.00	0.00	0.00	919,985.99	719,231.38	
7,500.00	0.00	0.00	7,500.00	3,077.00	0.00	0.00	0.00	0.00	919,985.99	719,231.38	
7,600.00	0.00	0.00	7,600.00	3,177.00	0.00	0.00	0.00	0.00	919,985.99	719,231.38	
7,700.00	0.00	0.00	7,700.00	3,277.00	0.00	0.00	0.00	0.00	919,985.99	719,231.38	
7,800.00	0.00	0.00	7,800.00	3,377.00	0.00	0.00	0.00	0.00	919,985.99	719,231.38	
7,900.00	0.00	0.00	7,900.00	3,477.00	0.00	0.00	0.00	0.00	919,985.99	719,231.38	
7,951.60	0.00	0.00	7,951.60	3,528.60	0.00	0.00	0.00	0.00	919,985.99	719,231.38	



Pathfinder
Pathfinder X & Y Planning Report



Company:	OGX Resources	Local Co-ordinate Reference:	Well #1H
Project:	Lea County	TVD Reference:	WELL @ 4423.00ft (Original Well Elev)
Site:	NLA State Unit	MD Reference:	WELL @ 4423.00ft (Original Well Elev)
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	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)	
7,975.00	2.92	359.96	7,974.99	3,551.99	0.60	0.00	0.60	12.50	919,986.59	719,231.37	
8,000.00	6.05	359.96	7,999.91	3,576.91	2.55	0.00	2.55	12.50	919,988.55	719,231.37	
8,025.00	9.17	359.96	8,024.69	3,601.69	5.86	0.00	5.86	12.50	919,991.86	719,231.37	
8,050.00	12.30	359.96	8,049.25	3,626.25	10.52	-0.01	10.52	12.50	919,996.51	719,231.37	
8,075.00	15.42	359.96	8,073.51	3,650.51	16.51	-0.01	16.51	12.50	920,002.50	719,231.36	
8,100.00	18.55	359.96	8,097.42	3,674.42	23.81	-0.02	23.81	12.50	920,009.81	719,231.36	
8,125.00	21.67	359.96	8,120.89	3,697.89	32.41	-0.02	32.41	12.50	920,018.40	719,231.35	
8,150.00	24.80	359.96	8,143.86	3,720.86	42.27	-0.03	42.27	12.50	920,028.26	719,231.35	
8,175.00	27.92	359.96	8,166.26	3,743.26	53.37	-0.04	53.37	12.50	920,039.36	719,231.34	
8,200.00	31.05	359.96	8,188.02	3,765.02	65.67	-0.05	65.67	12.50	920,051.67	719,231.33	
8,225.00	34.17	359.96	8,209.08	3,786.08	79.14	-0.06	79.14	12.50	920,065.14	719,231.32	
8,250.00	37.30	359.96	8,229.37	3,806.37	93.74	-0.07	93.74	12.50	920,079.74	719,231.31	
8,275.00	40.42	359.96	8,248.83	3,825.83	109.43	-0.08	109.43	12.50	920,095.42	719,231.30	
8,300.00	43.55	359.96	8,267.41	3,844.41	126.15	-0.09	126.15	12.50	920,112.14	719,231.29	
8,325.00	46.67	359.96	8,285.05	3,862.05	143.86	-0.10	143.86	12.50	920,129.85	719,231.27	
8,350.00	49.80	359.96	8,301.71	3,878.71	162.50	-0.11	162.50	12.50	920,148.49	719,231.26	
8,375.00	52.92	359.96	8,317.31	3,894.31	182.02	-0.13	182.02	12.50	920,168.02	719,231.25	
8,400.00	56.05	359.96	8,331.84	3,908.84	202.37	-0.14	202.37	12.50	920,188.36	719,231.23	
8,425.00	59.17	359.96	8,345.23	3,922.23	223.48	-0.16	223.48	12.50	920,209.47	719,231.22	
8,450.00	62.30	359.96	8,357.45	3,934.45	245.28	-0.17	245.28	12.50	920,231.28	719,231.20	
8,475.00	65.42	359.96	8,368.46	3,945.46	267.72	-0.19	267.72	12.50	920,253.72	719,231.19	
8,500.00	68.54	359.96	8,378.24	3,955.24	290.73	-0.20	290.73	12.50	920,276.72	719,231.17	
8,525.00	71.67	359.96	8,386.74	3,963.74	314.24	-0.22	314.24	12.50	920,300.23	719,231.16	
8,550.00	74.79	359.96	8,393.95	3,970.95	338.17	-0.24	338.17	12.50	920,324.16	719,231.14	
8,575.00	77.92	359.96	8,399.85	3,976.85	362.46	-0.25	362.46	12.50	920,348.46	719,231.12	
8,600.00	81.04	359.96	8,404.41	3,981.41	387.04	-0.27	387.04	12.50	920,373.03	719,231.10	
8,625.00	84.17	359.96	8,407.63	3,984.63	411.83	-0.29	411.83	12.50	920,397.82	719,231.09	



Pathfinder
Pathfinder X & Y Planning Report



Company:	OGX Resources	Local Co-ordinate Reference:	Well #1H
Project:	Lea County	TVD Reference:	WELL @ 4423.00ft (Original Well Elev)
Site:	NLA State Unit	MD Reference:	WELL @ 4423.00ft (Original Well Elev)
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	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)	
8,650.00	87.29	359.96	8,409.49	3,986.49	436.75	-0.30	436.76	12.50	920,422.75	719,231.07	
8,671.65	90.00	359.96	8,410.00	3,987.00	458.40	-0.32	458.40	12.50	920,444.39	719,231.05	
8,700.00	90.00	359.96	8,410.00	3,987.00	486.75	-0.34	486.75	0.00	920,472.74	719,231.04	
8,800.00	90.00	359.96	8,410.00	3,987.00	586.75	-0.41	586.75	0.00	920,572.74	719,230.97	
8,900.00	90.00	359.96	8,410.00	3,987.00	686.75	-0.48	686.75	0.00	920,672.74	719,230.90	
9,000.00	90.00	359.96	8,410.00	3,987.00	786.75	-0.55	786.75	0.00	920,772.74	719,230.83	
9,100.00	90.00	359.96	8,410.00	3,987.00	886.75	-0.62	886.75	0.00	920,872.74	719,230.76	
9,200.00	90.00	359.96	8,410.00	3,987.00	986.75	-0.69	986.75	0.00	920,972.74	719,230.69	
9,300.00	90.00	359.96	8,410.00	3,987.00	1,086.75	-0.76	1,086.75	0.00	921,072.74	719,230.62	
9,400.00	90.00	359.96	8,410.00	3,987.00	1,186.75	-0.83	1,186.75	0.00	921,172.74	719,230.55	
9,500.00	90.00	359.96	8,410.00	3,987.00	1,286.75	-0.90	1,286.75	0.00	921,272.74	719,230.48	
9,600.00	90.00	359.96	8,410.00	3,987.00	1,386.75	-0.97	1,386.75	0.00	921,372.74	719,230.41	
9,700.00	90.00	359.96	8,410.00	3,987.00	1,486.75	-1.04	1,486.75	0.00	921,472.74	719,230.34	
9,800.00	90.00	359.96	8,410.00	3,987.00	1,586.75	-1.11	1,586.75	0.00	921,572.74	719,230.27	
9,900.00	90.00	359.96	8,410.00	3,987.00	1,686.75	-1.18	1,686.75	0.00	921,672.74	719,230.20	
10,000.00	90.00	359.96	8,410.00	3,987.00	1,786.75	-1.25	1,786.75	0.00	921,772.74	719,230.13	
10,100.00	90.00	359.96	8,410.00	3,987.00	1,886.75	-1.32	1,886.75	0.00	921,872.74	719,230.06	
10,200.00	90.00	359.96	8,410.00	3,987.00	1,986.75	-1.39	1,986.75	0.00	921,972.74	719,229.99	
10,300.00	90.00	359.96	8,410.00	3,987.00	2,086.75	-1.46	2,086.75	0.00	922,072.74	719,229.92	
10,400.00	90.00	359.96	8,410.00	3,987.00	2,186.75	-1.53	2,186.75	0.00	922,172.74	719,229.85	
10,500.00	90.00	359.96	8,410.00	3,987.00	2,286.75	-1.60	2,286.75	0.00	922,272.74	719,229.78	
10,600.00	90.00	359.96	8,410.00	3,987.00	2,386.75	-1.67	2,386.75	0.00	922,372.74	719,229.71	
10,700.00	90.00	359.96	8,410.00	3,987.00	2,486.75	-1.74	2,486.75	0.00	922,472.74	719,229.64	
10,800.00	90.00	359.96	8,410.00	3,987.00	2,586.75	-1.81	2,586.75	0.00	922,572.74	719,229.57	
10,900.00	90.00	359.96	8,410.00	3,987.00	2,686.75	-1.88	2,686.75	0.00	922,672.74	719,229.50	
11,000.00	90.00	359.96	8,410.00	3,987.00	2,786.75	-1.95	2,786.75	0.00	922,772.74	719,229.43	
11,100.00	90.00	359.96	8,410.00	3,987.00	2,886.75	-2.02	2,886.75	0.00	922,872.74	719,229.36	



Pathfinder
Pathfinder X & Y Planning Report



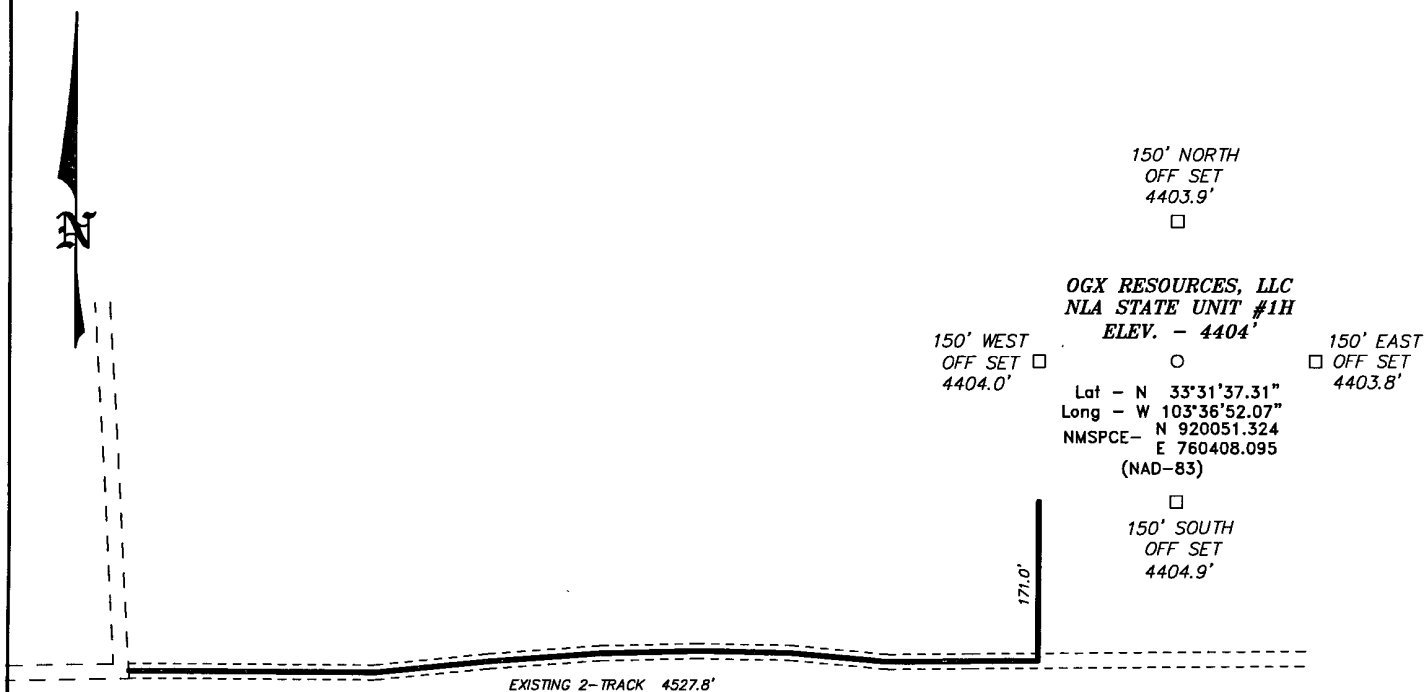
Company:	OGX Resources	Local Co-ordinate Reference:	Well #1H
Project:	Lea County	TVD Reference:	WELL @ 4423.00ft (Original Well Elev)
Site:	NLA State Unit	MD Reference:	WELL @ 4423.00ft (Original Well Elev)
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	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)	
11,200.00	90.00	359.96	8,410.00	3,987.00	2,986.75	-2.09	2,986.75	0.00	922,972.74	719,229.29	
11,300.00	90.00	359.96	8,410.00	3,987.00	3,086.75	-2.15	3,086.75	0.00	923,072.74	719,229.22	
11,400.00	90.00	359.96	8,410.00	3,987.00	3,186.75	-2.22	3,186.75	0.00	923,172.74	719,229.15	
11,500.00	90.00	359.96	8,410.00	3,987.00	3,286.75	-2.29	3,286.75	0.00	923,272.74	719,229.08	
11,600.00	90.00	359.96	8,410.00	3,987.00	3,386.75	-2.36	3,386.75	0.00	923,372.74	719,229.01	
11,700.00	90.00	359.96	8,410.00	3,987.00	3,486.75	-2.43	3,486.75	0.00	923,472.74	719,228.94	
11,800.00	90.00	359.96	8,410.00	3,987.00	3,586.75	-2.50	3,586.75	0.00	923,572.74	719,228.87	
11,900.00	90.00	359.96	8,410.00	3,987.00	3,686.75	-2.57	3,686.75	0.00	923,672.74	719,228.80	
12,000.00	90.00	359.96	8,410.00	3,987.00	3,786.75	-2.64	3,786.75	0.00	923,772.74	719,228.73	
12,100.00	90.00	359.96	8,410.00	3,987.00	3,886.75	-2.71	3,886.75	0.00	923,872.74	719,228.66	
12,200.00	90.00	359.96	8,410.00	3,987.00	3,986.75	-2.78	3,986.75	0.00	923,972.74	719,228.59	
12,300.00	90.00	359.96	8,410.00	3,987.00	4,086.75	-2.85	4,086.75	0.00	924,072.74	719,228.52	
12,400.00	90.00	359.96	8,410.00	3,987.00	4,186.75	-2.92	4,186.75	0.00	924,172.74	719,228.45	
12,500.00	90.00	359.96	8,410.00	3,987.00	4,286.75	-2.99	4,286.75	0.00	924,272.74	719,228.38	
12,600.00	90.00	359.96	8,410.00	3,987.00	4,386.75	-3.06	4,386.75	0.00	924,372.74	719,228.31	
12,676.65	90.00	359.96	8,410.00	3,987.00	4,463.40	-3.12	4,463.40	0.00	924,449.39	719,228.26	

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(NLA#1)	0.00	0.00	8,410.00	4,463.40	-2.35	924,449.394	719,229.027	33° 32' 21.106 N	103° 36' 49.900 W
- plan hits target center									
- Point									

Checked By: _____ Approved By: _____ Date: _____

SECTION 18, TOWNSHIP 09 SOUTH, RANGE 33 EAST, N.M.P.M.,
EDDY COUNTY, NEW MEXICO.



200 0 200 400 FEET
SCALE: 1" = 200'

Directions to Location:

FROM THE JUNCTION OF CARROL AND BUTTON MESA,
GO NORTH ON LEASE ROAD 0.5 MILES TO LEASE
ROAD, ON LEASE ROAD GO EAST 1.2 MILES TO
PROPOSED LEASE ROAD AND 2-TRACK.

BASIN SURVEYS P.O. BOX 1786-HOBBS, NEW MEXICO

W.O. Number: 23148 Drawn By: J. SMALL

Date: 08-12-2010 Disk: JMS 23148

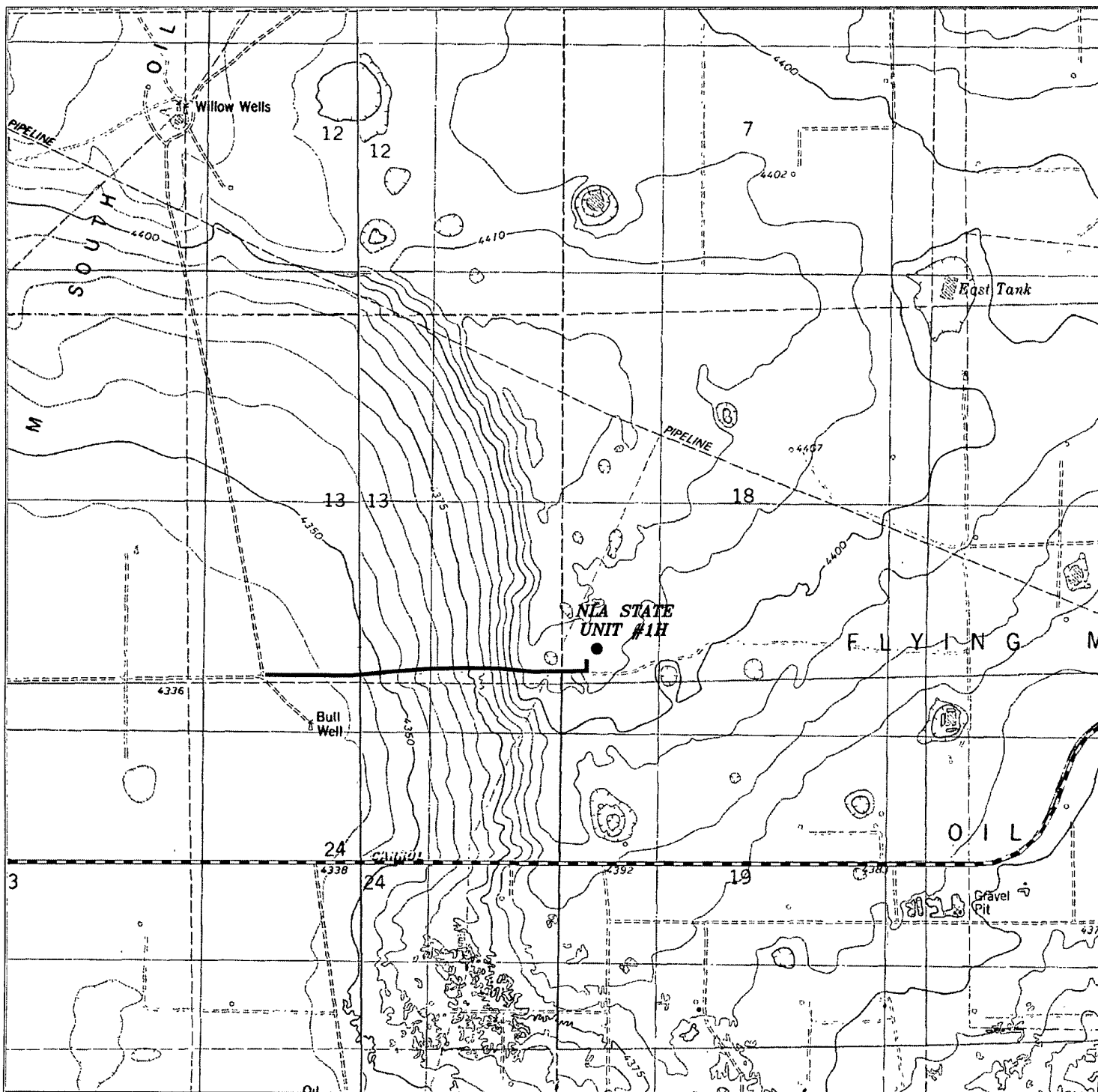
OGX RESOURCES, LLC

REF: NLA STATE UNIT #1H / WELL PAD TOPO

THE NLA STATE UNIT #1H LOCATED 480'

FROM THE SOUTH LINE AND 480' FROM THE WEST LINE OF
SECTION 18, TOWNSHIP 09 SOUTH, RANGE 33 EAST,
N.M.P.M., LEA COUNTY, NEW MEXICO.

Survey Date: 08-11-2010 Sheet 1 of 1 Sheets



NLA STATE UNIT #1H
 Located 480' FSL and 480' FWL
 Section 18, Township 09 South, Range 33 East,
 N.M.P.M., Lea County, New Mexico.

basin
surveys
 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: JMS 23148

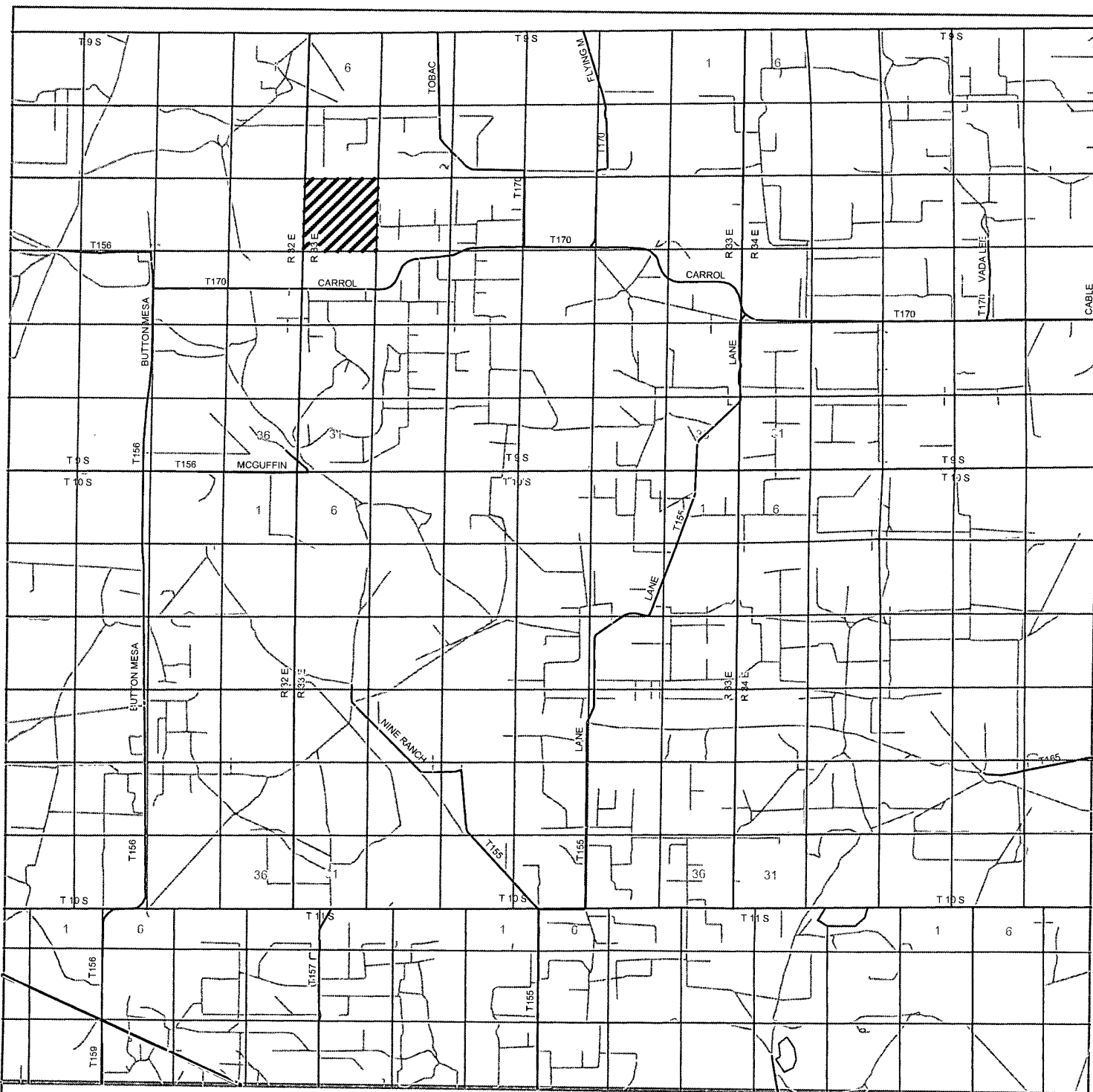
Survey Date: 08-11-2010

Scale: 1" = 2000'

Date: 08-12-2010



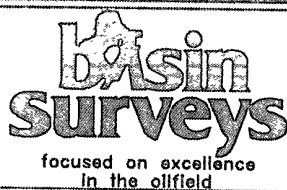
OGX
RESOURCES,
LLC



NLA STATE UNIT #1H

Located 480' FSL and 480' FWL

Section 18, Township 09 South, Range 33 East,
N.M.P.M., Lea County, New Mexico.



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

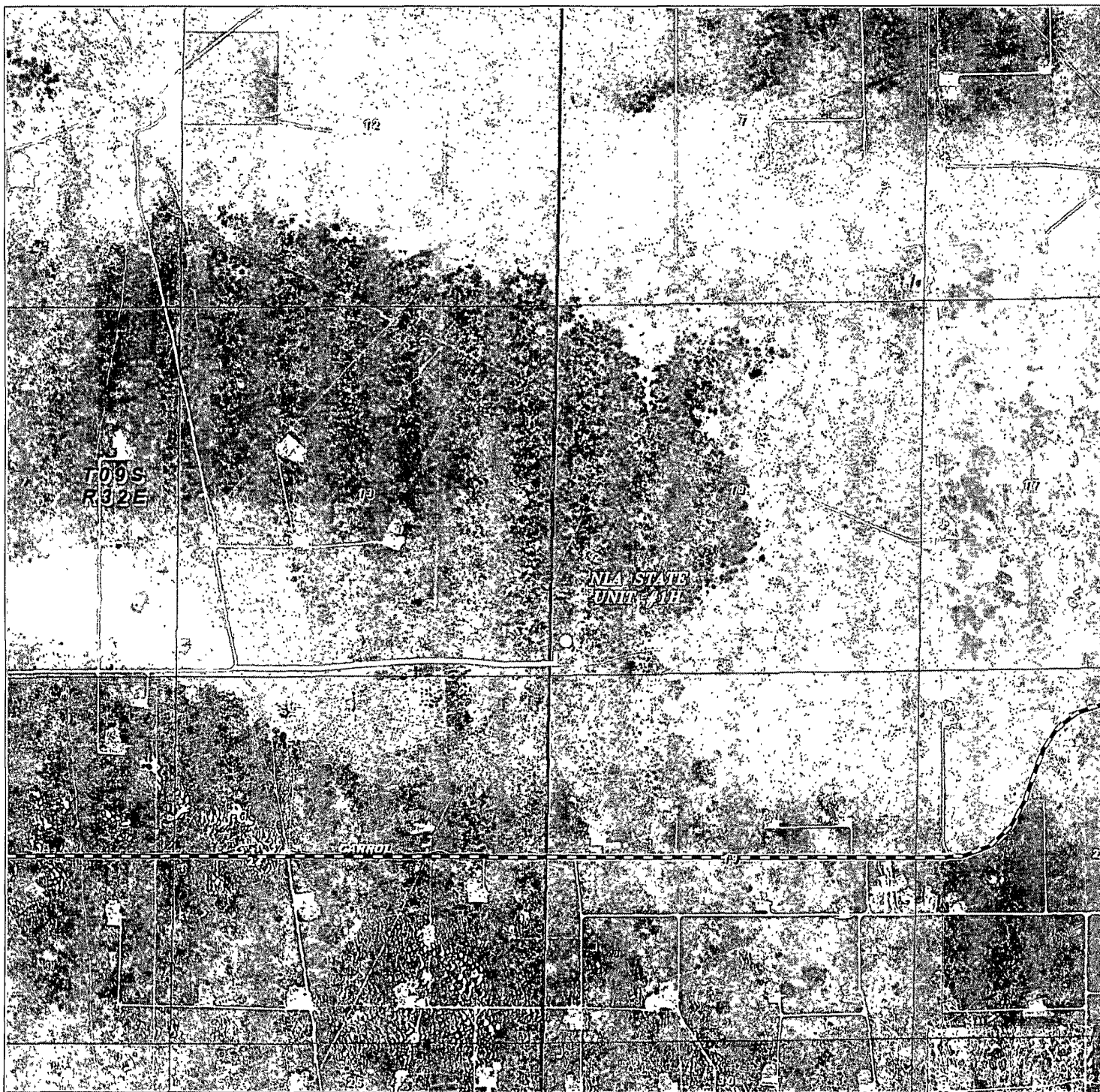
W.O. Number: JMS 23148

Survey Date: 08-11-2010

Scale: 1" = 2 Miles

Date: 08-12-2010

OGX
RESOURCES,
LLC



NLA STATE UNIT #1H
 Located 480' FSL and 480' FWL
 Section 18, Township 09 South, Range 33 East,
 N.M.P.M., Lea County, New Mexico.

basin
surveys
 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: JMS 23148

Scale: 1" = 2000'

YELLOW TINT - USA LAND
 BLUE TINT - STATE LAND
 NATURAL COLOR - FEE LAND



OGX
RESOURCES,
LLC