

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

State of New Mexico
Energy Minerals and Natural Resources



Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

NOV 17 2008

Form C-101
June 16, 2008

OCD-ARTESIA

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 37487	⁴ Property Name REPOSADO "2" STATE	⁵ Well No. 1H
⁶ Proposed Pool 1 BRUSHY DRAW DELAWARE-NORTH (8085)		⁷ Proposed Pool 2

⁷ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	2	26S	29E		330'	NORTH	1980'	EAST	EDDY

⁸ Proposed 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
O	2	26S	29E		350'	SOUTH	1980'	EAST	EDDY

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 3012'
¹⁶ Multiple NO	¹⁷ Proposed Depth MD-12,460'	¹⁸ Formation BONE SPRING	¹⁹ Contractor JW DRILLING	²⁰ Spud Date DEC. 01 2008

TVD-7950'

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"	48#	525'	410 Sx.	SURFACE
12 1/2"	9 5/8"	36#	3170'	700 Sx.	SURFACE
8 3/4"	5 1/2"	17#	12,460' MD	1417 Sx.	SURFACE

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.

SEE ATTACHED SHEET

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief. Signature: <i>Joe T. Janica</i>		OIL CONSERVATION DIVISION	
Printed name: Joe T. Janica		Approved by: <i>Jim W. Green</i> <i>District II Supervisor</i>	
Title: Permit Eng.		Approval Date: 11/18/08	Expiration Date: 11/18/10
E-mail Address: joejanica@valornet.com			
Date: 11/14/08	Phone: 575-391-8503	Conditions of Approval Attached ☐	



1. Drill 26" hole to 40'. Set 40' of 20" conductor pipe and cement to surface with Redi-mix.
2. Drill 17½" hole to 525'. Run and set 525' of 13 3/8" 48# H-40 ST&C casing. Cement with 210 Sx. of 35/65 Class "C" Premium Plus POZ, + 6% Bentonite, + 5% Salt, + 0.7% Sodium Metasilicate, + 5# LCM, Yield 2.00. Tail in with 200 Sx. of Premium Plus Class "C" cement + 2% CaCl, Yield 1.34, circulate cement to surface.
3. Drill 12½" hole to 3170'. Run and set 3170' of 9 5/8" 36# J-55 ST&C casing. Cement with 500 Sx. of 35/65 Class "C" Premium Plus POZ cement, + 4% bentonite, + 5% Salt, + 5% MPA-5, + 0.7% Sodium Metasilicate, + 5# LCM/Sx, Yield 2.02. Tail in with 200 Sx. of Class "C" cement + 2% CaCl, yield 1.34, circulate cement to surface.
4. Drill 8 3/4" hole to 12,460'. Run and set 12,460' of 5½" casing as follows:
5260' of 5½" 17# N-80 BT&C, 7200' of 5½" 17# N-80 LT&C casing. Cement with 810 Sx. of Premium Plus Class "H" cement + 0.7% FL-62, + 0.4% BA-10A, + 0.1% FL-62. Yield 2.44. Tail in with 607 Sx of 50/50 Class "C"POZ, + 10% Bentonite, + 5% Salt, Yield 1.33, circulate cement to surface.

Potential Hazards:

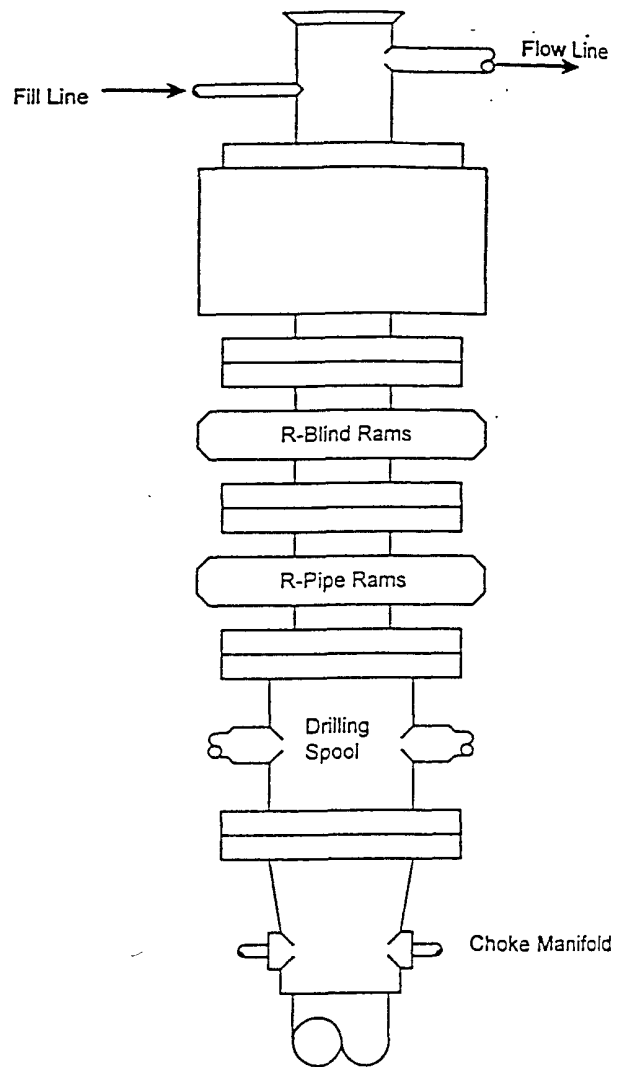
No abnormal pressures or temperatures are expected. There is no known presence of H₂S in this area. If H₂S is encountered the operator will comply with the provisions of Onshore Oil & Gas Order No.6. No loss circulation is expected to occur. All personnel will be familiar with all aspects of safe operation of equipment being used to drill this well. Estimated BHP is 3770 psi. & BHT is 135° F.

Anticipated Starting Date & Duration:

Road and location construction will begin after the OCD has approved the APD. Anticipated spud date will be after December 1, 2008. Move in and drilling operations will take 38 days with an additional 30 days to complete the well and construct production facilities.

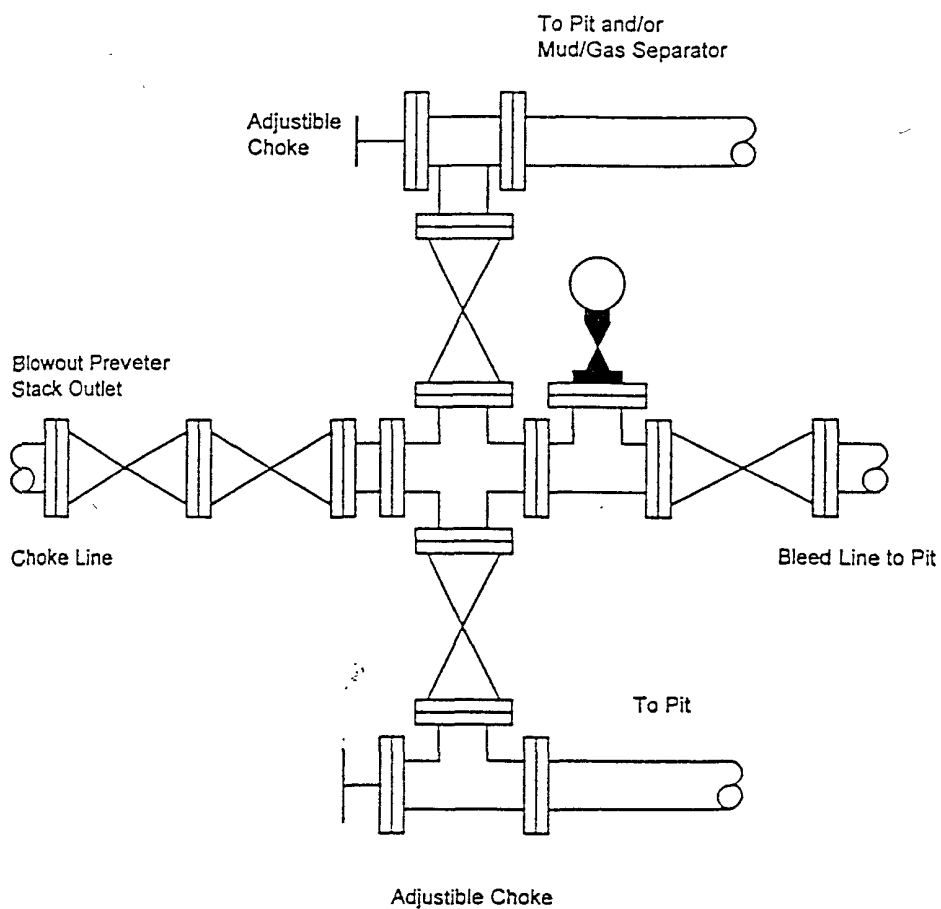
BLOWOUT PREVENTER SYSTEM

3000 PSI



Type 900 SERIES
3000 PSI WP

Choke Manifold Assembly for 5M WP System



DISTRICT I
1825 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

OIL CONSERVATION DIVISION
1220 SOUTH ST. FRANCIS DR.
Santa Fe, New Mexico 87505

Form C-102
Revised October 12, 2005
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30.015.36774	Pool Code 8085	Pool Name BRUSHY DRAW DELAWARE-NORTH
Property Code 37487	Property Name REPOSADO "2" STATE	Well Number 1H
OGRID No. 217955	Operator Name OGX RESOURCES	Elevation 3012'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	2	26-S	29-E		330	NORTH	1980	EAST	EDDY

Bottom Hole Location If Different From Surface

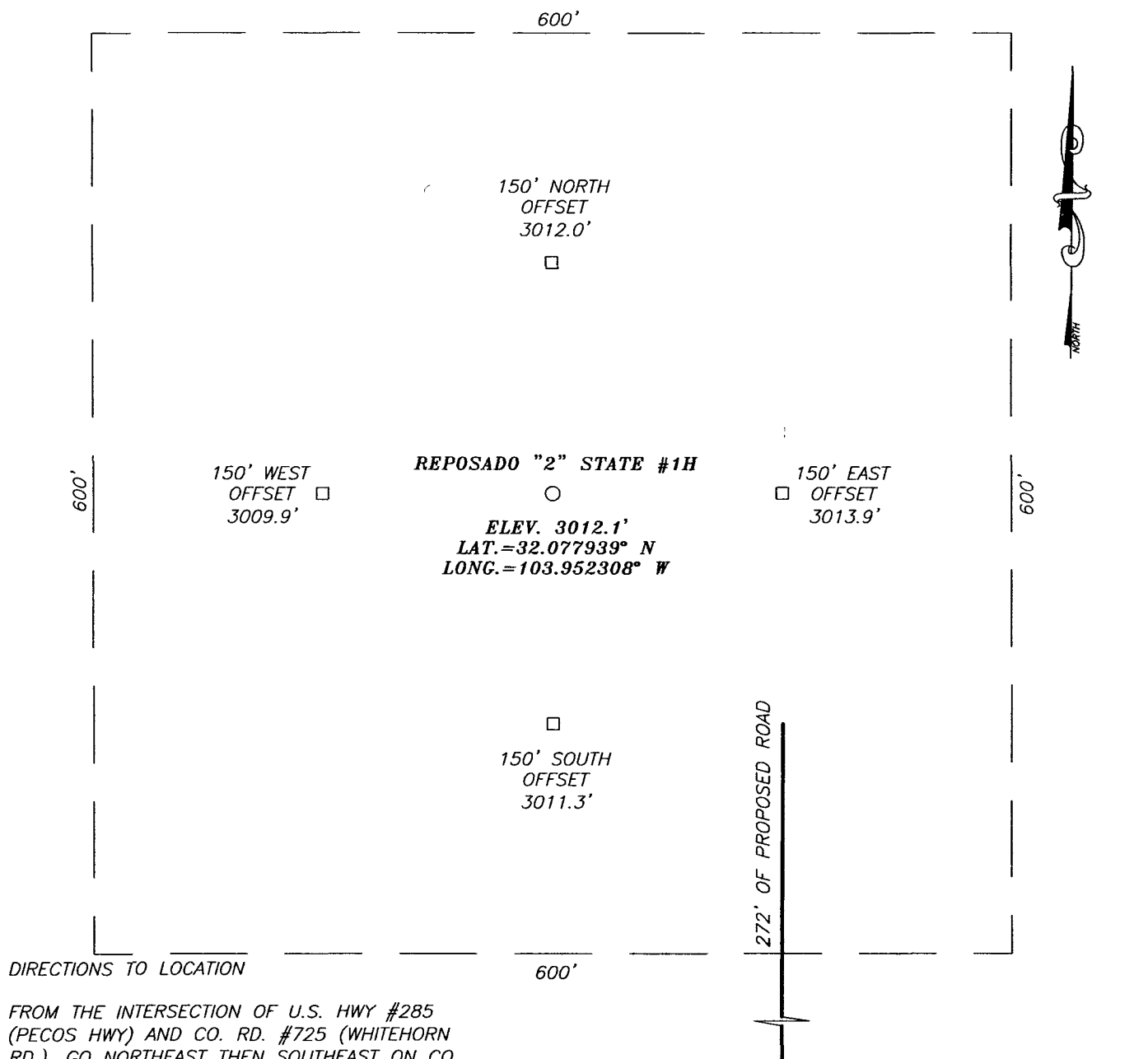
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	2	26-S	29-E		350	SOUTH	1980	EAST	EDDY

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

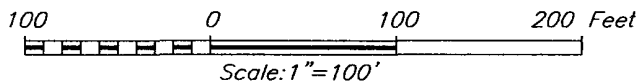
PROJECT AREA → V-6825 → PRODUCING AREA → V-6825 GRID AZ. = 176°35'27" HORZ. DIST. = 4716.3' GEODETIC COORDINATES NAD 27 NME Y=392286.6 N X=618016.1 E LAT.=32.077939° N LONG.=103.952308° W BOTTOM HOLE LOCATION Y=387579.7 N X=618296.3 E	POINT OF ENTRY 543' FNL & 1980' FEL 330' 1980' 1980' 350'	OPERATOR CERTIFICATION I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this unitization either owns a working 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 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 11/14/08 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. <i>Ronald J. Eidson</i> Date Surveyed Signature & Seal of Professional Surveyor OCTOBER 30, 2008 JC 11/11/08 Certificate No. GARY EIDSON 12641 RONALD J. EIDSON 3239
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SECTION 2, TOWNSHIP 26 SOUTH, RANGE 29 EAST, N.M.P.M.,
EDDY COUNTY, NEW MEXICO



DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF U.S. HWY #285
(PECOS HWY) AND CO. RD. #725 (WHITEHORN
RD.), GO NORTHEAST THEN SOUTHEAST ON CO.
RD. #725 APPROX. 3.8 MILES. TURN LEFT AND GO
NORTHEAST APPROX. 3.5 MILES; TURN LEFT AND
GO SOUTH APPROX. 0.6 MILES; TURN LEFT AND
GO EAST APPROX. 0.2 MILES; TURN LEFT AND GO
NORTHEAST APPROX. 0.2 MILES; VEER RIGHT AND
GO NORTHEAST APPROX. 0.2 MILES; TURN RIGHT
AND GO SOUTH-SOUTHWEST APPROX. 1.1 MILES;
TURN RIGHT AND GO WEST APPROX. 0.2 MILES TO
A PROPOSED ROAD SURVEY. FOLLOW ROAD
SURVEY NORTH APPROX. 272 FEET TO THIS
LOCATION.



OGX RESOURCES

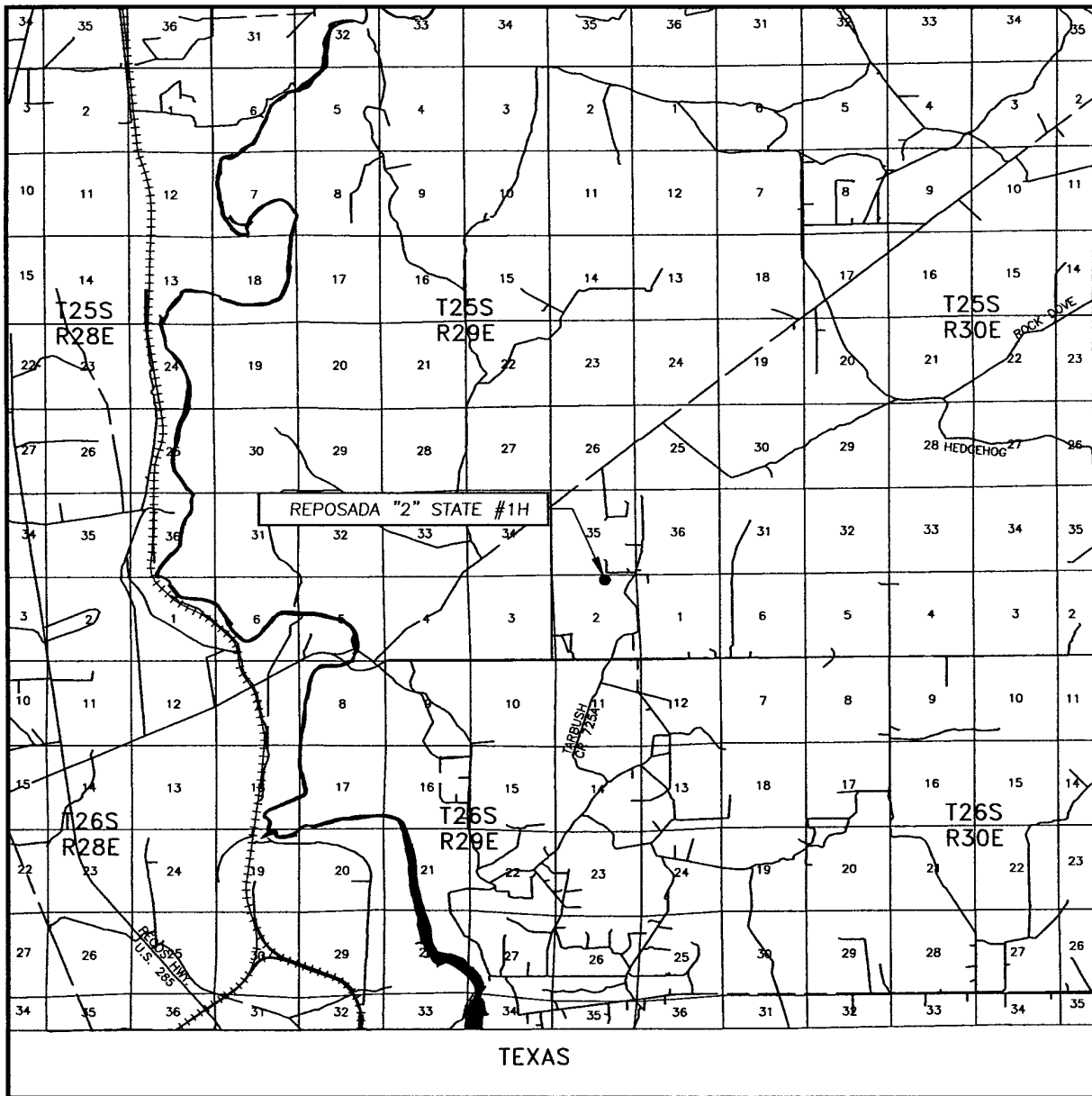
REPOSADO "2" STATE #1H WELL
LOCATED 330 FEET FROM THE NORTH LINE
AND 1980 FEET FROM THE EAST LINE OF SECTION 2,
TOWNSHIP 26 SOUTH, RANGE 29 EAST, N.M.P.M.,
EDDY COUNTY, NEW MEXICO.

Survey Date: 10/30/08		Sheet 1 of 1 Sheets	
W.O. Number: 08.11.1873		Dr By: JC	Rev 1:N/A
Date: 11/10/08		08111873	Scale: 1"=100'



PROVIDING SURVEYING SERVICES
SINCE 1946
JOHN WEST SURVEYING COMPANY
412 N. DAL PASO
HOBBS, N.M. 88240
(505) 393-3117

VICINITY MAP



SCALE: 1" = 2 MILES

SEC. 2 TWP. 26-S RGE. 29-E

SURVEY N.M.P.M.

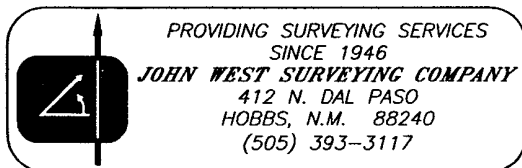
COUNTY EDDY STATE NEW MEXICO

DESCRIPTION 330' FNL & 1980' FEL

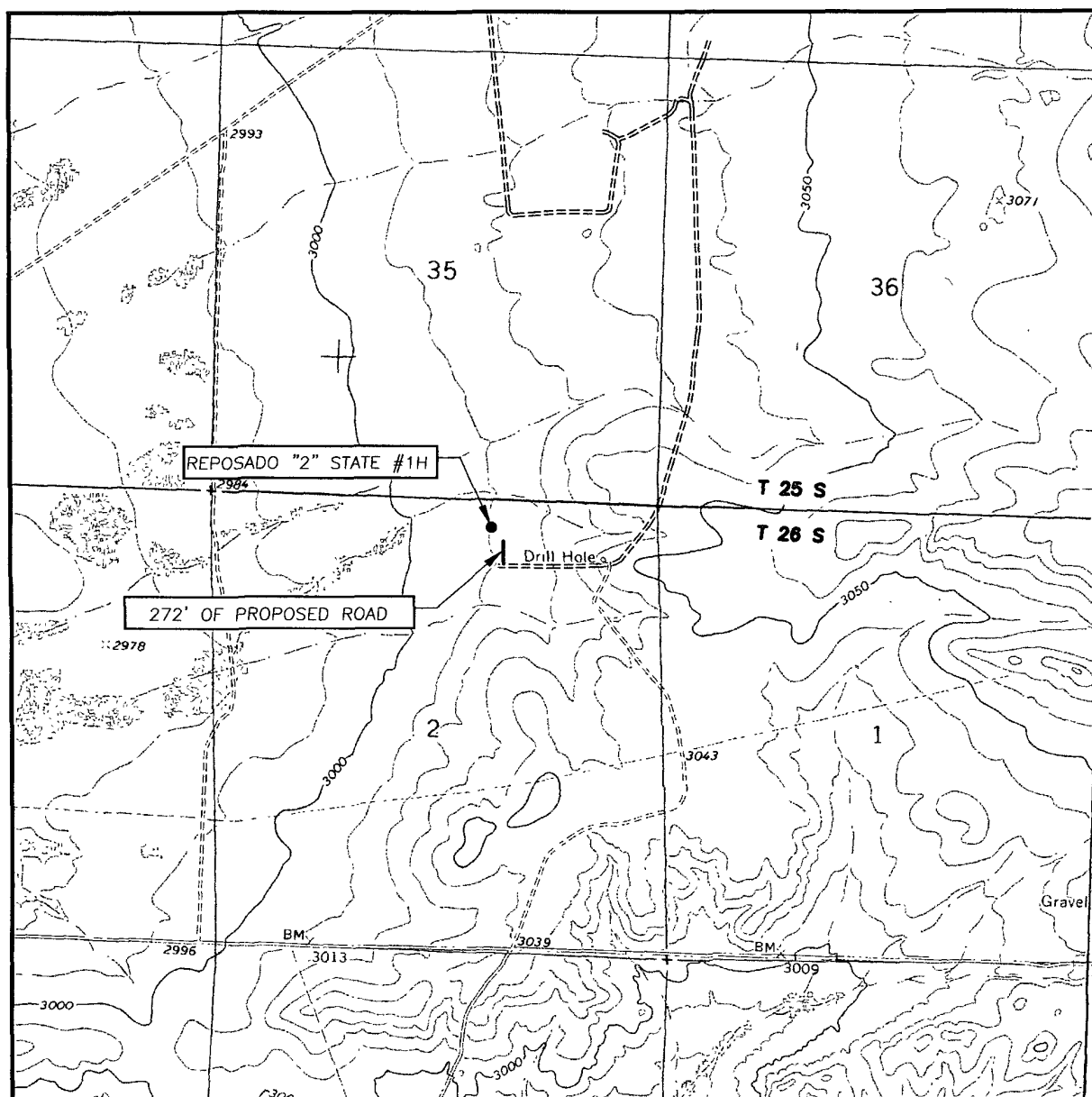
ELEVATION 3012'

OPERATOR OGX RESOURCES

LEASE REPOSODO "2" STATE



LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL:
ROSS RANCH, N.M. - 10'

SEC. 2 TWP. 26-S RGE. 29-E

SURVEY N.M.P.M.

COUNTY EDDY STATE NEW MEXICO

DESCRIPTION 330' FNL & 1980' FEL

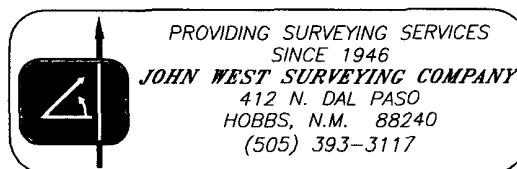
ELEVATION 3012'

OPERATOR OGX RESOURCES

LEASE REPOSADO "2" STATE

U.S.G.S. TOPOGRAPHIC MAP

ROSS RANCH, N.M.



OGX Resources

Eddy County

Reposado 2 State #1H

Reposado 2 State #1H

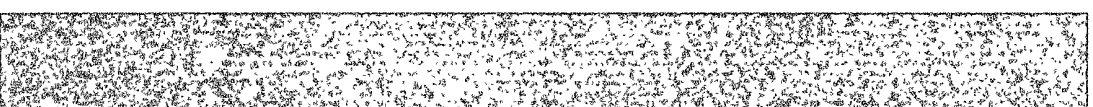
OH

Plan: Plan #1

Pathfinder X & Y Survey Report

13 November, 2008

PATHFINDER
ENERGY SERVICES



OGX Resources



Azimuths to Grid North
True North: 2.45°
Magnetic North: 9.61°

Magnetic Field
Strength: 49339.4snT
Dip Angle: 60.95°
Date: 11/13/2008
Model: IGRF200510



WELL DETAILS Reposado 2 State #1H

Ground Elevation 3012.00
RKB Elevation WELL @ 3024.00ft (12' RKB JW #1)
Rig Name 12' RKB JW #1

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slat
0.00	0.00	392286.600	618016.100	32° 39' 49.457 N	101° 59' 31.809 W	

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	YFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	7472.50	0.00	0.00	7472.50	0.00	0.00	0.00	0.00	0.00	
3	8222.66	90.00	176.59	7950.00	-476.65	28.40	12.00	176.59	477.60	
4	12460.29	90.00	176.59	7950.00	-4706.89	280.40	0.00	0.00	4715.23	BHL(Rep#1H)

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
BHL(Rep#1H)	7950.00	-4706.90	280.20	387579.700	618296.300	Point

Project: Eddy County

Site: Reposado 2 State #1H

Well: Reposado 2 State #1H

Wellbore: OH

Plan: Plan #1 (Reposado 2 State #1H/OH)

PROJECT DETAILS: Eddy County

Geodetic System: US State Plane 1927 (Exact solution)

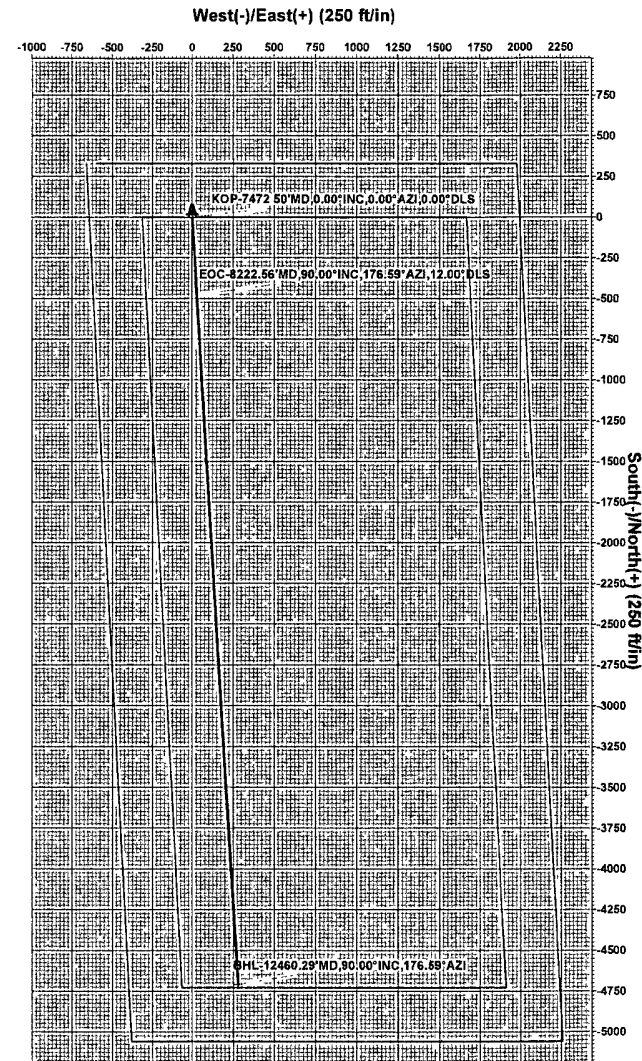
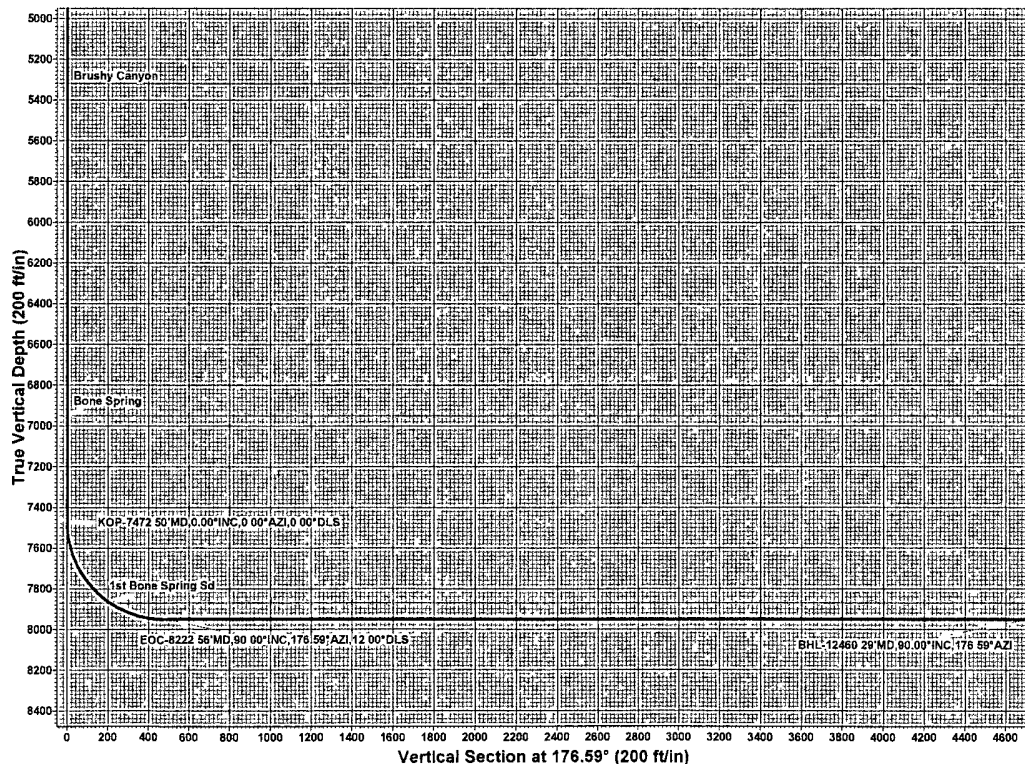
Datum: NAD 1927 (NADCON CONUS)

Ellipsoid: Clarke 1866

Zone: Texas North Central 4202

System Datum: Mean Sea Level

Local North: Grid



Plan Plan #1 (Reposado 2 State #1H/OH)

Created By Nate Bingham Date: 13 47, November: 13 2008

Checked _____ Date: _____

Pathfinder Energy Services
Pathfinder X & Y Survey Report



Company:	OGX Resources	Local Co-ordinate Reference:	Well Reposado 2 State #1H
Project:	Eddy County	TVD Reference:	WELL @ 3024.00ft (12' RKB JW #1)
Site:	Reposado 2 State #1H	MD Reference:	WELL @ 3024.00ft (12' RKB JW #1)
Well:	Reposado 2 State #1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	Midland DB

Project:	Eddy County, New Mexico	System Datum:	Mean Sea Level
Map System:	US State Plane 1927 (Exact solution)		
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Texas North Central 4202		

Site:	Reposado 2 State #1H		
Site Position:		Northing:	392,286.600 ft
From:	Map	Easting:	618,016.100 ft
Position Uncertainty:	0.00 ft	Slot Radius:	"
		Latitude:	32° 39' 49.457 N
		Longitude:	101° 59' 31.809 W
		Grid Convergence:	-2 45 °

Well		Reposado 2 State #1H				
Well Position	+N/-S	0.00 ft	Northing:	392,286.600 ft	Latitude:	32° 39' 49.457 N
	+E/-W	0.00 ft	Easting:	618,016.100 ft	Longitude:	101° 59' 31.809 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	3,012.00 ft

Wellbore:	OH
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	11/13/2008	7.16	60.95	49,339

Design:	Plan #1
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Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(ft)	(ft)	(ft)	(°)
	0.00	0.00	0.00	176.59

Survey Tool Program		Date 11/13/2008		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.00	12,460.29	Plan #1 (OH)	MWD	MWD - Standard

Pathfinder Energy Services
Pathfinder X & Y Survey Report



Company:	OGX Resources	Local Co-ordinate Reference:	Well-Repasado 2 State #1H
Project:	Eddy County	TVD Reference:	WELL @ 3024.00ft (12' RKB JW #1)
Site:	Repasado 2 State #1H	MD Reference:	WELL @ 3024.00ft (12' RKB JW #1)
Well:	Repasado 2 State #1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	Midland DB

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	-3,024.00	0.00	0.00	0.00	0.00	392,286.60	618,016.10	
100.00	0.00	0.00	100.00	-2,924.00	0.00	0.00	0.00	0.00	392,286.60	618,016.10	
200.00	0.00	0.00	200.00	-2,824.00	0.00	0.00	0.00	0.00	392,286.60	618,016.10	
300.00	0.00	0.00	300.00	-2,724.00	0.00	0.00	0.00	0.00	392,286.60	618,016.10	
400.00	0.00	0.00	400.00	-2,624.00	0.00	0.00	0.00	0.00	392,286.60	618,016.10	
500.00	0.00	0.00	500.00	-2,524.00	0.00	0.00	0.00	0.00	392,286.60	618,016.10	
600.00	0.00	0.00	600.00	-2,424.00	0.00	0.00	0.00	0.00	392,286.60	618,016.10	
700.00	0.00	0.00	700.00	-2,324.00	0.00	0.00	0.00	0.00	392,286.60	618,016.10	
800.00	0.00	0.00	800.00	-2,224.00	0.00	0.00	0.00	0.00	392,286.60	618,016.10	
900.00	0.00	0.00	900.00	-2,124.00	0.00	0.00	0.00	0.00	392,286.60	618,016.10	
1,000.00	0.00	0.00	1,000.00	-2,024.00	0.00	0.00	0.00	0.00	392,286.60	618,016.10	
1,100.00	0.00	0.00	1,100.00	-1,924.00	0.00	0.00	0.00	0.00	392,286.60	618,016.10	
1,200.00	0.00	0.00	1,200.00	-1,824.00	0.00	0.00	0.00	0.00	392,286.60	618,016.10	
1,300.00	0.00	0.00	1,300.00	-1,724.00	0.00	0.00	0.00	0.00	392,286.60	618,016.10	
1,400.00	0.00	0.00	1,400.00	-1,624.00	0.00	0.00	0.00	0.00	392,286.60	618,016.10	
1,500.00	0.00	0.00	1,500.00	-1,524.00	0.00	0.00	0.00	0.00	392,286.60	618,016.10	
1,600.00	0.00	0.00	1,600.00	-1,424.00	0.00	0.00	0.00	0.00	392,286.60	618,016.10	
1,700.00	0.00	0.00	1,700.00	-1,324.00	0.00	0.00	0.00	0.00	392,286.60	618,016.10	
1,800.00	0.00	0.00	1,800.00	-1,224.00	0.00	0.00	0.00	0.00	392,286.60	618,016.10	
1,900.00	0.00	0.00	1,900.00	-1,124.00	0.00	0.00	0.00	0.00	392,286.60	618,016.10	
2,000.00	0.00	0.00	2,000.00	-1,024.00	0.00	0.00	0.00	0.00	392,286.60	618,016.10	
2,100.00	0.00	0.00	2,100.00	-924.00	0.00	0.00	0.00	0.00	392,286.60	618,016.10	
2,200.00	0.00	0.00	2,200.00	-824.00	0.00	0.00	0.00	0.00	392,286.60	618,016.10	
2,300.00	0.00	0.00	2,300.00	-724.00	0.00	0.00	0.00	0.00	392,286.60	618,016.10	
2,400.00	0.00	0.00	2,400.00	-624.00	0.00	0.00	0.00	0.00	392,286.60	618,016.10	
2,500.00	0.00	0.00	2,500.00	-524.00	0.00	0.00	0.00	0.00	392,286.60	618,016.10	
2,600.00	0.00	0.00	2,600.00	-424.00	0.00	0.00	0.00	0.00	392,286.60	618,016.10	

Pathfinder Energy Services
Pathfinder X & Y Survey Report



Company:	OGX Resources	Local Co-ordinate Reference:	Well Reposado 2 State #1H
Project:	Eddy County	TVD Reference:	WELL @ 3024.00ft (12' RKB JW #1)
Site:	Reposado 2 State #1H	MD Reference:	WELL @ 3024.00ft (12' RKB JW #1)
Well:	Reposado 2 State #1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	Midland DB

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	-324.00	0.00	0.00	0.00	0.00	392,286.60	618,016.10	
2,800.00	0.00	0.00	2,800.00	-224.00	0.00	0.00	0.00	0.00	392,286.60	618,016.10	
2,900.00	0.00	0.00	2,900.00	-124.00	0.00	0.00	0.00	0.00	392,286.60	618,016.10	
3,000.00	0.00	0.00	3,000.00	-24.00	0.00	0.00	0.00	0.00	392,286.60	618,016.10	
3,070.00	0.00	0.00	3,070.00	46.00	0.00	0.00	0.00	0.00	392,286.60	618,016.10	
Base of Salt											
3,100.00	0.00	0.00	3,100.00	76.00	0.00	0.00	0.00	0.00	392,286.60	618,016.10	
3,140.00	0.00	0.00	3,140.00	116.00	0.00	0.00	0.00	0.00	392,286.60	618,016.10	
Lamar											
3,170.00	0.00	0.00	3,170.00	146.00	0.00	0.00	0.00	0.00	392,286.60	618,016.10	
Bell Canyon											
3,200.00	0.00	0.00	3,200.00	176.00	0.00	0.00	0.00	0.00	392,286.60	618,016.10	
3,300.00	0.00	0.00	3,300.00	276.00	0.00	0.00	0.00	0.00	392,286.60	618,016.10	
3,400.00	0.00	0.00	3,400.00	376.00	0.00	0.00	0.00	0.00	392,286.60	618,016.10	
3,500.00	0.00	0.00	3,500.00	476.00	0.00	0.00	0.00	0.00	392,286.60	618,016.10	
3,600.00	0.00	0.00	3,600.00	576.00	0.00	0.00	0.00	0.00	392,286.60	618,016.10	
3,700.00	0.00	0.00	3,700.00	676.00	0.00	0.00	0.00	0.00	392,286.60	618,016.10	
3,800.00	0.00	0.00	3,800.00	776.00	0.00	0.00	0.00	0.00	392,286.60	618,016.10	
3,900.00	0.00	0.00	3,900.00	876.00	0.00	0.00	0.00	0.00	392,286.60	618,016.10	
4,000.00	0.00	0.00	4,000.00	976.00	0.00	0.00	0.00	0.00	392,286.60	618,016.10	
4,020.00	0.00	0.00	4,020.00	996.00	0.00	0.00	0.00	0.00	392,286.60	618,016.10	
Cherry Canyon											
4,100.00	0.00	0.00	4,100.00	1,076.00	0.00	0.00	0.00	0.00	392,286.60	618,016.10	
4,200.00	0.00	0.00	4,200.00	1,176.00	0.00	0.00	0.00	0.00	392,286.60	618,016.10	
4,300.00	0.00	0.00	4,300.00	1,276.00	0.00	0.00	0.00	0.00	392,286.60	618,016.10	
4,400.00	0.00	0.00	4,400.00	1,376.00	0.00	0.00	0.00	0.00	392,286.60	618,016.10	
4,500.00	0.00	0.00	4,500.00	1,476.00	0.00	0.00	0.00	0.00	392,286.60	618,016.10	

Pathfinder Energy Services
Pathfinder X & Y Survey Report



Company:	OGX Resources	Local Co-ordinate Reference:	Well Reposado 2 State #1H
Project:	Eddy County	TVD Reference:	WELL @ 3024.00ft (12' RKB JW #1)
Site:	Reposado 2 State #1H	MD Reference:	WELL @ 3024.00ft (12' RKB JW #1)
Well:	Reposado 2 State #1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	Midland DB

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)	
4,600.00	0.00	0.00	4,600.00	1,576.00	0.00	0.00	0.00	0.00	392,286.60	618,016.10	
4,700.00	0.00	0.00	4,700.00	1,676.00	0.00	0.00	0.00	0.00	392,286.60	618,016.10	
4,800.00	0.00	0.00	4,800.00	1,776.00	0.00	0.00	0.00	0.00	392,286.60	618,016.10	
4,900.00	0.00	0.00	4,900.00	1,876.00	0.00	0.00	0.00	0.00	392,286.60	618,016.10	
5,000.00	0.00	0.00	5,000.00	1,976.00	0.00	0.00	0.00	0.00	392,286.60	618,016.10	
5,100.00	0.00	0.00	5,100.00	2,076.00	0.00	0.00	0.00	0.00	392,286.60	618,016.10	
5,200.00	0.00	0.00	5,200.00	2,176.00	0.00	0.00	0.00	0.00	392,286.60	618,016.10	
5,300.00	0.00	0.00	5,300.00	2,276.00	0.00	0.00	0.00	0.00	392,286.60	618,016.10	
5,320.00	0.00	0.00	5,320.00	2,296.00	0.00	0.00	0.00	0.00	392,286.60	618,016.10	
Brushy Canyon											
5,400.00	0.00	0.00	5,400.00	2,376.00	0.00	0.00	0.00	0.00	392,286.60	618,016.10	
5,500.00	0.00	0.00	5,500.00	2,476.00	0.00	0.00	0.00	0.00	392,286.60	618,016.10	
5,600.00	0.00	0.00	5,600.00	2,576.00	0.00	0.00	0.00	0.00	392,286.60	618,016.10	
5,700.00	0.00	0.00	5,700.00	2,676.00	0.00	0.00	0.00	0.00	392,286.60	618,016.10	
5,800.00	0.00	0.00	5,800.00	2,776.00	0.00	0.00	0.00	0.00	392,286.60	618,016.10	
5,900.00	0.00	0.00	5,900.00	2,876.00	0.00	0.00	0.00	0.00	392,286.60	618,016.10	
6,000.00	0.00	0.00	6,000.00	2,976.00	0.00	0.00	0.00	0.00	392,286.60	618,016.10	
6,100.00	0.00	0.00	6,100.00	3,076.00	0.00	0.00	0.00	0.00	392,286.60	618,016.10	
6,200.00	0.00	0.00	6,200.00	3,176.00	0.00	0.00	0.00	0.00	392,286.60	618,016.10	
6,300.00	0.00	0.00	6,300.00	3,276.00	0.00	0.00	0.00	0.00	392,286.60	618,016.10	
6,400.00	0.00	0.00	6,400.00	3,376.00	0.00	0.00	0.00	0.00	392,286.60	618,016.10	
6,500.00	0.00	0.00	6,500.00	3,476.00	0.00	0.00	0.00	0.00	392,286.60	618,016.10	
6,600.00	0.00	0.00	6,600.00	3,576.00	0.00	0.00	0.00	0.00	392,286.60	618,016.10	
6,700.00	0.00	0.00	6,700.00	3,676.00	0.00	0.00	0.00	0.00	392,286.60	618,016.10	
6,800.00	0.00	0.00	6,800.00	3,776.00	0.00	0.00	0.00	0.00	392,286.60	618,016.10	
6,900.00	0.00	0.00	6,900.00	3,876.00	0.00	0.00	0.00	0.00	392,286.60	618,016.10	

Pathfinder Energy Services
Pathfinder X & Y Survey Report



Company:	OGX Resources	Local Co-ordinate Reference:	Well Reposado 2 State #1H
Project:	Eddy County	TVD Reference:	WELL @ 3024.00ft (12' RKB JW #1)
Site:	Reposado 2 State #1H	MD Reference:	WELL @ 3024.00ft (12' RKB JW #1)
Well:	Reposado 2 State #1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	Midland DB

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)	
6,950.00	0.00	0.00	6,950.00	3,926.00	0.00	0.00	0.00	0.00	392,286.60	618,016.10	
Bone Spring											
7,000.00	0.00	0.00	7,000.00	3,976.00	0.00	0.00	0.00	0.00	392,286.60	618,016.10	
7,100.00	0.00	0.00	7,100.00	4,076.00	0.00	0.00	0.00	0.00	392,286.60	618,016.10	
7,200.00	0.00	0.00	7,200.00	4,176.00	0.00	0.00	0.00	0.00	392,286.60	618,016.10	
7,300.00	0.00	0.00	7,300.00	4,276.00	0.00	0.00	0.00	0.00	392,286.60	618,016.10	
7,400.00	0.00	0.00	7,400.00	4,376.00	0.00	0.00	0.00	0.00	392,286.60	618,016.10	
7,472.50	0.00	0.00	7,472.50	4,448.50	0.00	0.00	0.00	0.00	392,286.60	618,016.10	
KOP-7472.50°MD,0.00°INC,0.00°AZI,0.00°DLS											
7,475.00	0.30	176.59	7,475.00	4,451.00	-0.01	0.00	0.01	12.00	392,286.59	618,016.10	
7,500.00	3.30	176.59	7,499.98	4,475.98	-0.79	0.05	0.79	12.00	392,285.81	618,016.15	
7,525.00	6.30	176.59	7,524.89	4,500.89	-2.88	0.17	2.88	12.00	392,283.72	618,016.27	
7,550.00	9.30	176.59	7,549.66	4,525.66	-6.26	0.37	6.28	12.00	392,280.34	618,016.47	
7,575.00	12.30	176.59	7,574.21	4,550.21	-10.94	0.65	10.96	12.00	392,275.66	618,016.75	
7,600.00	15.30	176.59	7,598.49	4,574.49	-16.89	1.01	16.92	12.00	392,269.71	618,017.11	
7,625.00	18.30	176.59	7,622.42	4,598.42	-24.10	1.44	24.15	12.00	392,262.50	618,017.54	
7,650.00	21.30	176.59	7,645.94	4,621.94	-32.55	1.94	32.61	12.00	392,254.05	618,018.04	
7,675.00	24.30	176.59	7,668.98	4,644.98	-42.22	2.52	42.30	12.00	392,244.38	618,018.62	
7,700.00	27.30	176.59	7,691.49	4,667.49	-53.08	3.16	53.18	12.00	392,233.52	618,019.26	
7,725.00	30.30	176.59	7,713.40	4,689.40	-65.10	3.88	65.22	12.00	392,221.50	618,019.98	
7,750.00	33.30	176.59	7,734.64	4,710.64	-78.25	4.66	78.39	12.00	392,208.35	618,020.76	
7,775.00	36.30	176.59	7,755.17	4,731.17	-92.49	5.51	92.66	12.00	392,194.11	618,021.61	
7,800.00	39.30	176.59	7,774.92	4,750.92	-107.78	6.42	107.98	12.00	392,178.82	618,022.52	
7,825.00	42.30	176.59	7,793.84	4,769.84	-124.09	7.39	124.31	12.00	392,162.51	618,023.49	
7,850.00	45.30	176.59	7,811.89	4,787.89	-141.36	8.42	141.61	12.00	392,145.24	618,024.52	
7,875.00	48.30	176.59	7,829.00	4,805.00	-159.55	9.50	159.83	12.00	392,127.05	618,025.60	
7,900.00	51.30	176.59	7,845.14	4,821.14	-178.61	10.64	178.92	12.00	392,107.99	618,026.74	

Pathfinder Energy Services
Pathfinder X & Y Survey Report



Company:	OGX Resources	Local Co-ordinate Reference:	Well Reposado 2 State #1H
Project:	Eddy County	TVD Reference:	WELL @ 3024.00ft (12' RKB JW #1)
Site:	Reposado 2 State #1H	MD Reference:	WELL @ 3024.00ft (12' RKB JW #1)
Well:	Reposado 2 State #1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	Midland DB

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)	
7,925.00	54.30	176.59	7,860.25	4,836.25	-198.48	11.82	198.83	12.00	392,088.12	618,027.92	
7,942.14	56.35	176.59	7,870.00	4,846.00	-212.55	12.66	212.92	12.00	392,074.05	618,028.76	
1st Bone Spring Sd											
7,950.00	57.30	176.59	7,874.30	4,850.30	-219.12	13.05	219.51	12.00	392,067.48	618,029.15	
7,975.00	60.30	176.59	7,887.25	4,863.25	-240.46	14.32	240.89	12.00	392,046.14	618,030.42	
8,000.00	63.30	176.59	7,899.07	4,875.07	-262.45	15.63	262.92	12.00	392,024.15	618,031.73	
8,025.00	66.30	176.59	7,909.71	4,885.71	-285.03	16.98	285.53	12.00	392,001.57	618,033.08	
8,050.00	69.29	176.59	7,919.16	4,895.16	-308.13	18.36	308.68	12.00	391,978.47	618,034.46	
8,075.00	72.29	176.59	7,927.38	4,903.38	-331.69	19.76	332.28	12.00	391,954.91	618,035.86	
8,100.00	75.29	176.59	7,934.36	4,910.36	-355.66	21.19	356.29	12.00	391,930.94	618,037.29	
8,125.00	78.29	176.59	7,940.07	4,916.07	-379.95	22.63	380.62	12.00	391,906.65	618,038.73	
8,150.00	81.29	176.59	7,944.50	4,920.50	-404.51	24.10	405.22	12.00	391,882.09	618,040.20	
8,175.00	84.29	176.59	7,947.63	4,923.63	-429.26	25.57	430.02	12.00	391,857.34	618,041.67	
8,200.00	87.29	176.59	7,949.47	4,925.47	-454.15	27.05	454.95	12.00	391,832.45	618,043.15	
8,222.56	90.00	176.59	7,950.00	4,926.00	-476.65	28.40	477.50	12.00	391,809.95	618,044.50	
EOC-8222.56°MD,90.00°INC,176.59°AZI,12.00°DLS											
8,300.00	90.00	176.59	7,950.00	4,926.00	-553.96	33.00	554.94	0.00	391,732.64	618,049.10	
8,400.00	90.00	176.59	7,950.00	4,926.00	-653.79	38.95	654.94	0.00	391,632.81	618,055.05	
8,500.00	90.00	176.59	7,950.00	4,926.00	-753.61	44.89	754.94	0.00	391,532.99	618,060.99	
8,600.00	90.00	176.59	7,950.00	4,926.00	-853.43	50.84	854.94	0.00	391,433.17	618,066.94	
8,700.00	90.00	176.59	7,950.00	4,926.00	-953.25	56.79	954.94	0.00	391,333.35	618,072.89	
8,800.00	90.00	176.59	7,950.00	4,926.00	-1,053.08	62.73	1,054.94	0.00	391,233.52	618,078.83	
8,900.00	90.00	176.59	7,950.00	4,926.00	-1,152.90	68.68	1,154.94	0.00	391,133.70	618,084.78	
9,000.00	90.00	176.59	7,950.00	4,926.00	-1,252.72	74.63	1,254.94	0.00	391,033.88	618,090.73	
9,100.00	90.00	176.59	7,950.00	4,926.00	-1,352.55	80.57	1,354.94	0.00	390,934.05	618,096.67	
9,200.00	90.00	176.59	7,950.00	4,926.00	-1,452.37	86.52	1,454.94	0.00	390,834.23	618,102.62	
9,300.00	90.00	176.59	7,950.00	4,926.00	-1,552.19	92.47	1,554.94	0.00	390,734.41	618,108.57	

Pathfinder Energy Services
Pathfinder X & Y Survey Report



Company:	OGX Resources	Local Co-ordinate Reference:	Well Reposado 2 State #1H
Project:	Eddy County	TVD Reference:	WELL @ 3024.00ft (12' RKB JW #1)
Site:	Reposado 2 State #1H	MD Reference:	WELL @ 3024.00ft (12' RKB JW #1)
Well:	Reposado 2 State #1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	Midland DB

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)	
9,400.00	90.00	176.59	7,950.00	4,926.00	-1,652.02	98.41	1,654.94	0.00	390,634.58	618,114.51	
9,500.00	90.00	176.59	7,950.00	4,926.00	-1,751.84	104.36	1,754.94	0.00	390,534.76	618,120.46	
9,600.00	90.00	176.59	7,950.00	4,926.00	-1,851.66	110.31	1,854.94	0.00	390,434.94	618,126.41	
9,700.00	90.00	176.59	7,950.00	4,926.00	-1,951.49	116.25	1,954.94	0.00	390,335.11	618,132.35	
9,800.00	90.00	176.59	7,950.00	4,926.00	-2,051.31	122.20	2,054.94	0.00	390,235.29	618,138.30	
9,900.00	90.00	176.59	7,950.00	4,926.00	-2,151.13	128.15	2,154.94	0.00	390,135.47	618,144.25	
10,000.00	90.00	176.59	7,950.00	4,926.00	-2,250.95	134.09	2,254.94	0.00	390,035.65	618,150.19	
10,100.00	90.00	176.59	7,950.00	4,926.00	-2,350.78	140.04	2,354.94	0.00	389,935.82	618,156.14	
10,200.00	90.00	176.59	7,950.00	4,926.00	-2,450.60	145.99	2,454.94	0.00	389,836.00	618,162.09	
10,300.00	90.00	176.59	7,950.00	4,926.00	-2,550.42	151.93	2,554.94	0.00	389,736.18	618,168.03	
10,400.00	90.00	176.59	7,950.00	4,926.00	-2,650.25	157.88	2,654.94	0.00	389,636.35	618,173.98	
10,500.00	90.00	176.59	7,950.00	4,926.00	-2,750.07	163.83	2,754.94	0.00	389,536.53	618,179.93	
10,600.00	90.00	176.59	7,950.00	4,926.00	-2,849.89	169.77	2,854.94	0.00	389,436.71	618,185.87	
10,700.00	90.00	176.59	7,950.00	4,926.00	-2,949.72	175.72	2,954.94	0.00	389,336.88	618,191.82	
10,800.00	90.00	176.59	7,950.00	4,926.00	-3,049.54	181.67	3,054.94	0.00	389,237.06	618,197.77	
10,900.00	90.00	176.59	7,950.00	4,926.00	-3,149.36	187.61	3,154.94	0.00	389,137.24	618,203.71	
11,000.00	90.00	176.59	7,950.00	4,926.00	-3,249.18	193.56	3,254.94	0.00	389,037.42	618,209.66	
11,100.00	90.00	176.59	7,950.00	4,926.00	-3,349.01	199.51	3,354.94	0.00	388,937.59	618,215.61	
11,200.00	90.00	176.59	7,950.00	4,926.00	-3,448.83	205.45	3,454.94	0.00	388,837.77	618,221.55	
11,300.00	90.00	176.59	7,950.00	4,926.00	-3,548.65	211.40	3,554.94	0.00	388,737.95	618,227.50	
11,400.00	90.00	176.59	7,950.00	4,926.00	-3,648.48	217.35	3,654.94	0.00	388,638.12	618,233.45	
11,500.00	90.00	176.59	7,950.00	4,926.00	-3,748.30	223.29	3,754.94	0.00	388,538.30	618,239.39	
11,600.00	90.00	176.59	7,950.00	4,926.00	-3,848.12	229.24	3,854.94	0.00	388,438.48	618,245.34	
11,700.00	90.00	176.59	7,950.00	4,926.00	-3,947.95	235.19	3,954.94	0.00	388,338.65	618,251.29	
11,800.00	90.00	176.59	7,950.00	4,926.00	-4,047.77	241.13	4,054.94	0.00	388,238.83	618,257.23	
11,900.00	90.00	176.59	7,950.00	4,926.00	-4,147.59	247.08	4,154.94	0.00	388,139.01	618,263.18	
12,000.00	90.00	176.59	7,950.00	4,926.00	-4,247.41	253.03	4,254.94	0.00	388,039.19	618,269.13	

Pathfinder Energy Services
Pathfinder X & Y Survey Report



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Project:	Eddy County	TVD Reference:	WELL @ 3024.00ft (12' RKB JW #1)
Site:	Reposado 2 State #1H	MD Reference:	WELL @ 3024.00ft (12' RKB JW #1)
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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)	
12,100.00	90.00	176.59	7,950.00	4,926.00	-4,347.24	258.97	4,354.94	0.00	387,939.36	618,275.07	
12,200.00	90.00	176.59	7,950.00	4,926.00	-4,447.06	264.92	4,454.94	0.00	387,839.54	618,281.02	
12,300.00	90.00	176.59	7,950.00	4,926.00	-4,546.88	270.87	4,554.94	0.00	387,739.72	618,286.97	
12,400.00	90.00	176.59	7,950.00	4,926.00	-4,646.71	276.81	4,654.94	0.00	387,639.89	618,292.91	
12,460.29	90.00	176.59	7,950.00	4,926.00	-4,706.89	280.40	4,715.23	0.00	387,579.71	618,296.50	
BHL-12460.29°MD,90.00°INC;176.59°AZI - BHL(Rep#1H)											

Pathfinder Energy Services
Pathfinder X & Y Survey Report



Company:	OGX Resources	Local Co-ordinate Reference:	Well Reposado 2 State #1H
Project:	Eddy County	TVD Reference:	WELL @ 3024.00ft (12' RKB JW #1)
Site:	Reposado 2 State #1H	MD Reference:	WELL @ 3024.00ft (12' RKB JW #1)
Well:	Reposado 2 State #1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	Midland DB

Targets									
Target Name	hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude Longitude
Shape		(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)	
BHL(Rep#1H)		0.00	0.00	7,950.00	-4,706.90	280 20	387,579.700	618,296.300	32° 39' 3.039 N 101° 59' 26.181 W
- plan hits target									
- Point									

Formations						
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction	
(ft)	(ft)			(°)	(°)	
3,070.00	3,070.00	Base of Salt		0.00		
5,320.00	5,320.00	Brushy Canyon		0.00		
3,170.00	3,170.00	Bell Canyon		0.00		
4,020.00	4,020.00	Cherry Canyon		0.00		
	8,750.00	2nd Bone Spring Sd		0.00		
3,140.00	3,140.00	Lamar		0.00		
6,950.00	6,950.00	Bone Spring		0.00		
7,942.14	7,870.00	1st Bone Spring Sd		0.00		

Plan Annotations				
Measured Depth	Vertical Depth	Local Coordinates		Comment
(ft)	(ft)	+N/-S (ft)	+E/-W (ft)	
7,472.50	7,472.50	0.00	0.00	KOP-7472.50°MD,0.00°INC,0.00°AZI,0.00°DLS
8,222.56	7,950.00	-476.65	28.40	EOC-8222.56°MD,90.00°INC,176.59°AZI,12.00°DLS
12,460.29	7,950.00	-4,706.89	280 40	BHL-12460 29°MD,90.00°INC,176.59°AZI

Checked By: _____ Approved By: _____ Date: _____