

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

Form C-101
June 16, 2008

Oil Conservation Division
1220 South St. Francis Dr. SEP 16 2009
Santa Fe, NM 87505

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 37322	⁴ Property Name CHALLENGER "1" STATE	⁵ Well No. 2 H
⁶ Proposed Pool 1 CORRAL DRAW-DELAWARE NORTHWEST (96464)		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
Lot 3	1	25S	29E		660'	NORTH	1980'	WEST	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
N	1	25S	29E		330'	SOUTH	1980'	WEST	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 3118'
¹⁶ Multiple NO	¹⁷ Proposed Depth TVD-5400'	¹⁸ Formation DELAWARE	¹⁹ Contractor JW DRILLING	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#	525'	380 Sx.	Surface
10 5/8"	8 5/8"	32#	2700'	600 Sx.	Surface
7 7/8"	5 1/2"	17#	9535' MD	2080 Sx.	2500' FS
			5400' TVD		

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 FOR DETAIL

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief. Signature: Joe T. Janica	OIL CONSERVATION DIVISION
Printed name: Joe T. Janica	Approved by: Jacqui Boers
Title: Permit Eng.	Title: Geologist
E-mail Address: joejanica@valornet.com	Approval Date: 9/30/09 Expiration Date: 9/30/2011
Date: 09/15/09 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" 54.5# K-55 ST&C casing. Cement with 180 Sx. of Premium Plus Class "C" 35/65/6 POZ cement + 5% Salt, + 5% MPA-5, + 0.7% Sodium Metasilicate, + 5# LCM/Sx. Yield 2.00, tail in with 200 Sx. of Class "C" cement + 2% CaCl, Yield 1.34, circulate cement to surface.
3. Drill 10 5/8" hole to 2700'. Run and set 2700' of 8 5/8" 32# J-55 LT&C casing. Cement with 400 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 7 7/8" hole to 9535'-MD (TVD-5400'). Run and set 9535' of 5½" casing as follows: 4635' of 5½" 17# N-80 BT&C, 4900' of 5½" 17# N-80 LT&C casing. Cement with 1445 Sx. of Class "H" Premium Plus cement + 0.7% FL-62, + 0.4% BA-10A, + 0.1% FL-62, Yield 1.8, tail in with 535 Sx. of 50/50 Class "C" POZ cement + 10% Bentonite, + 5% Salt, Yield 2.44, tail in with 100 Sx. of Class "C" Premium Plus cement + additives, Yield 1.33. Estimate top of cement 2500' from surface.

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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 30-015-37296	Pool Code 96464	Pool Name CORRAL DRAW DELAWARE NORTHWEST ✓
Property Code 37322	Property Name CHALLENGER 1 STATE	Well Number 2H
OGRID No. 217955	Operator Name OGX RESOURCES	Elevation 3118'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
3	1	25-S	29-E		660	NORTH	1980	WEST	EDDY

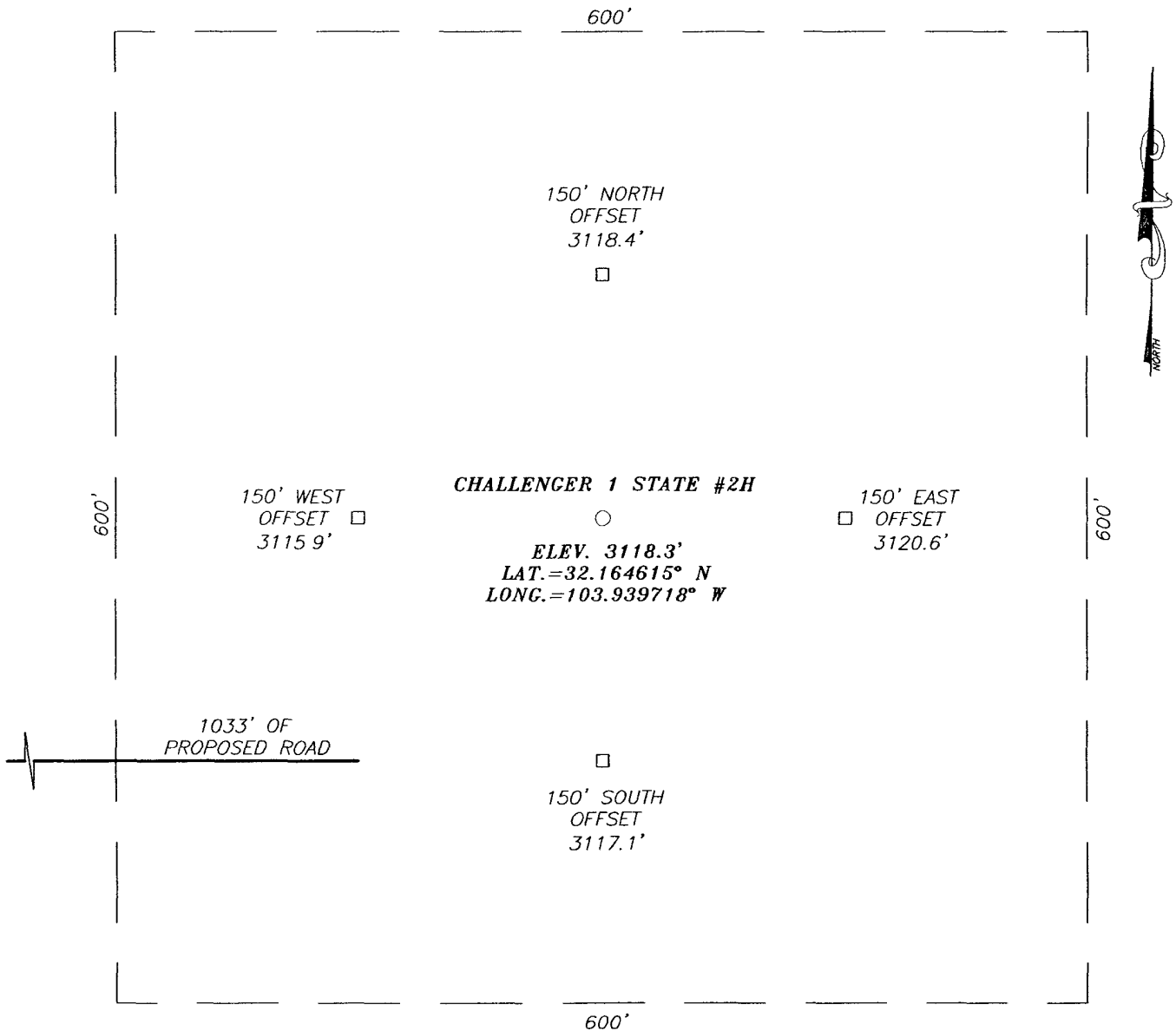
Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	1	25-S	29-E		330	SOUTH	1980	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

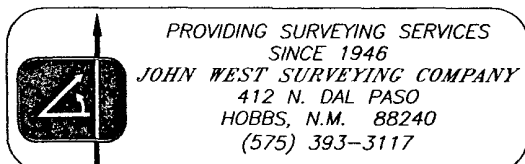
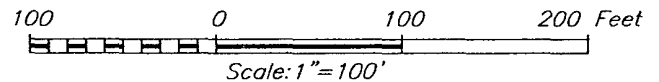
	OPERATOR CERTIFICATION I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such 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 09/15/09 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: AUGUST 24, 2009 Signature & Seal of Professional Surveyor Rev. 9/3/09 RONALD J. EIDSON 9-03-09 Certificate No. GARY EIDSON 12841 RONALD EIDSON 3239
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SECTION 1, TOWNSHIP 25 SOUTH, RANGE 29 EAST, N.M.P.M.,
 EDDY COUNTY, NEW MEXICO



DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF CO. RD. #787 (TWIN WELLS) AND CO. RD. #786 (BUCK JACKSON RD.) GO WEST ON CO. RD. #787 APPROX. 0.1 MILE. TURN LEFT AND GO SOUTHWEST APPROX. 3.2 MILES. VEER RIGHT AND GO WEST APPROX. 1.5 MILES. TURN RIGHT AND GO NORTH APPROX. 1.0 MILE. TURN LEFT AND GO WEST APPROX. 1.0 MILE, VEER RIGHT AND GO NORTHWEST APPROX. 0.6 MILES. VEER RIGHT AND GO NORTH APPROX. 0.2 MILES TO A PROPOSED ROAD SURVEY. FOLLOW ROAD SURVEY EAST APPROX. 1200 FEET TO THIS LOCATION.

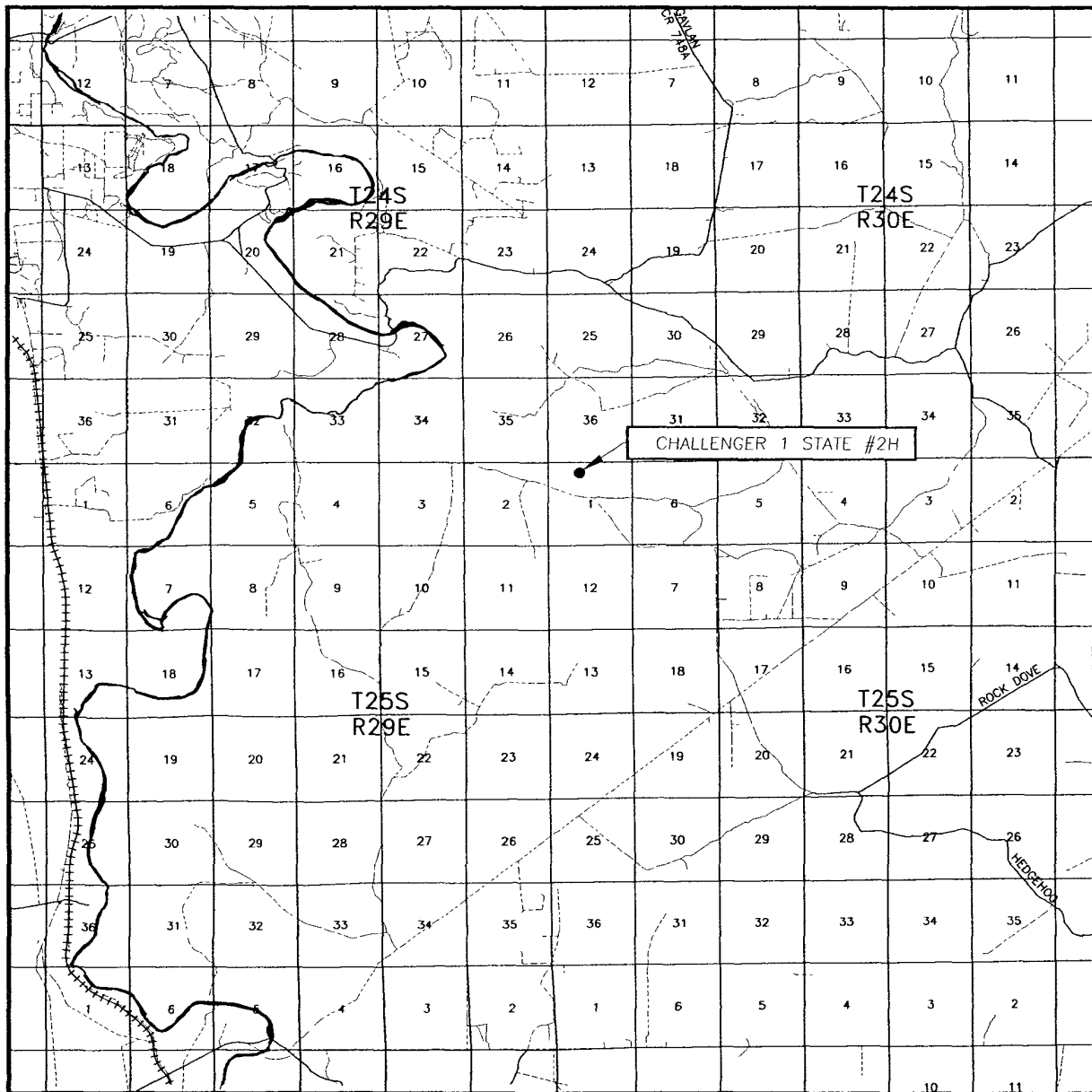


OGX RESOURCES

CHALLENGER 1 STATE #2H WELL
 LOCATED 660 FEET FROM THE NORTH LINE
 AND 1980 FEET FROM THE WEST LINE OF SECTION 1,
 TOWNSHIP 25 SOUTH, RANGE 29 EAST, N.M.P.M.,
 EDDY COUNTY, NEW MEXICO.

Survey Date: 8/24/09		Sheet 1 of 1 Sheets	
W.O. Number: 09.11.0756		Dr By: LA	Rev 1:N/A
Date: 8/27/09		09110756	Scale: 1"=100'

VICINITY MAP



SCALE: 1" = 2 MILES

SEC. 1 TWP. 25-S RGE. 29-E

SURVEY N.M.P.M.

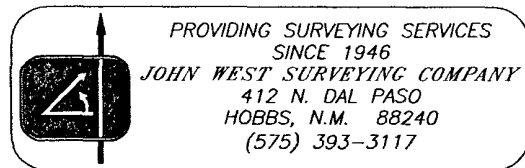
COUNTY EDDY STATE NEW MEXICO

DESCRIPTION 660' FNL & 1980' FWL

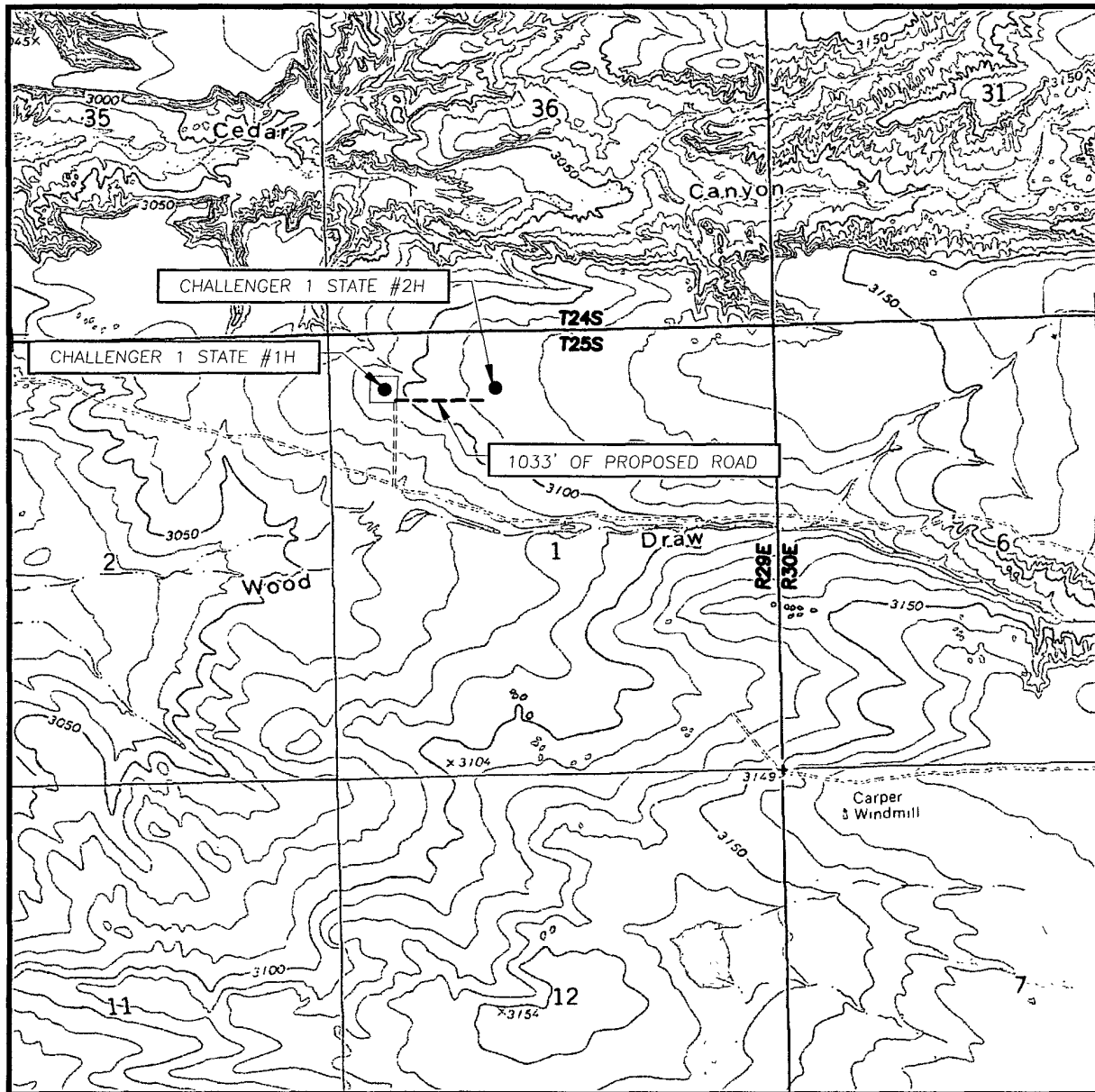
ELEVATION 3118'

OPERATOR OGX RESOURCES

LEASE CHALLENGER 1 STATE



LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL:
PIERCE CANYON, N.M. - 10'

SEC. 1 TWP. 25-S RGE. 29-E

SURVEY N.M.P.M.

COUNTY EDDY STATE NEW MEXICO

DESCRIPTION 660' FNL & 1980' FWL

ELEVATION 3118'

OPERATOR OGX RESOURCES

LEASE CHALLENGER 1 STATE

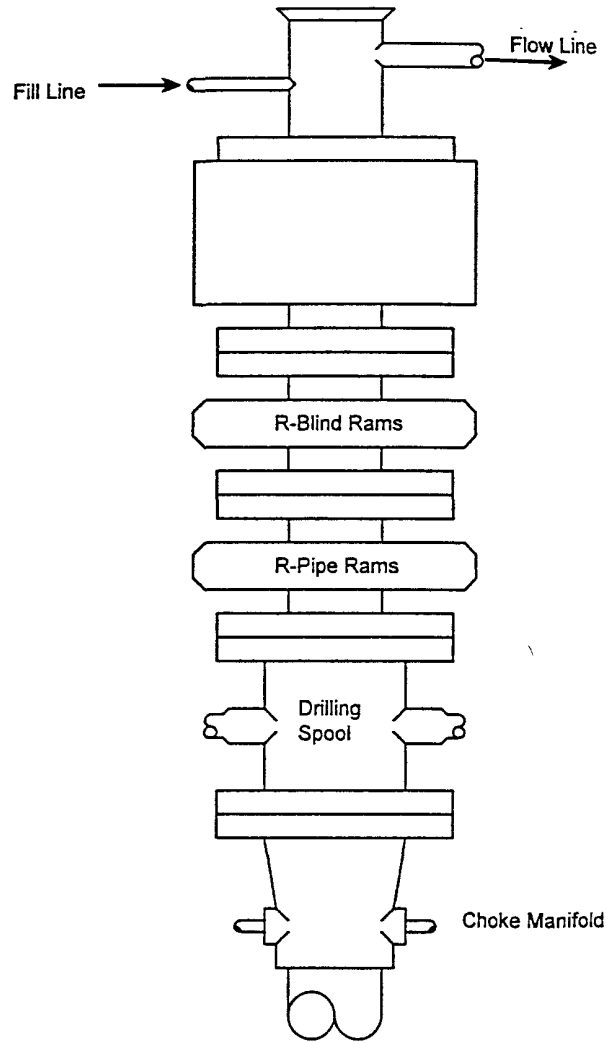
U.S.G.S. TOPOGRAPHIC MAP
PIERCE CANYON, N.M.



PROVIDING SURVEYING SERVICES
SINCE 1946
JOHN WEST SURVEYING COMPANY
412 N. DAL PASO
HOBBS, N.M. 88240
(575) 393-3117

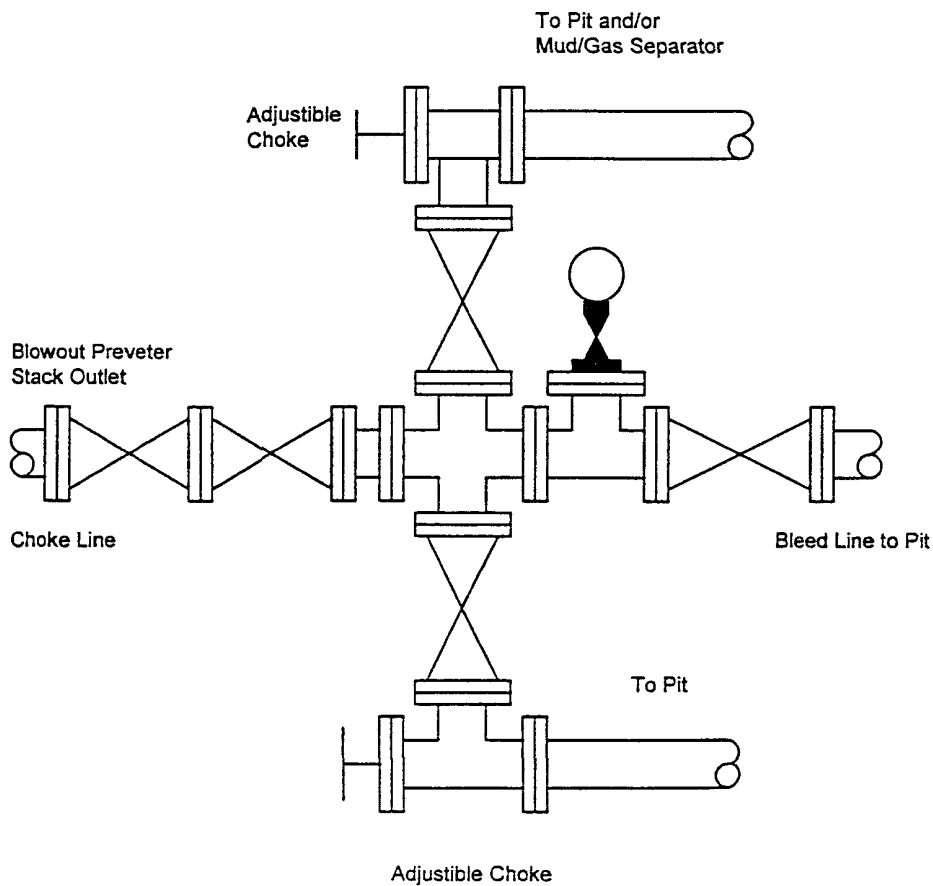
BLOWOUT PREVENTER SYSTEM

5000 PSI



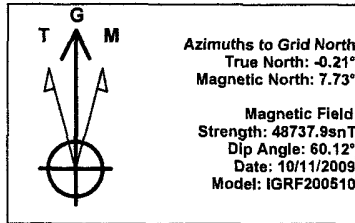
Type 1500 SERIES
5000 psi WP

Choke Manifold Assembly for 5M WP System





Project: Eddy County
Site: Challenger 1 State
Well: #2H
Wellbore: OH
Plan: Plan #1 (#2H/OH)

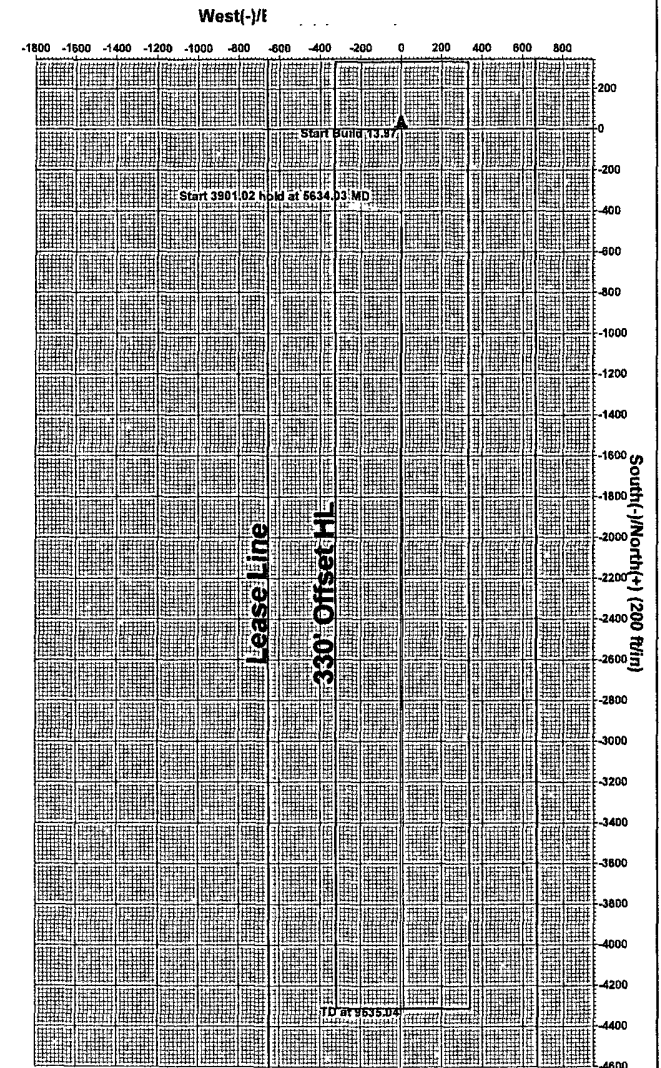
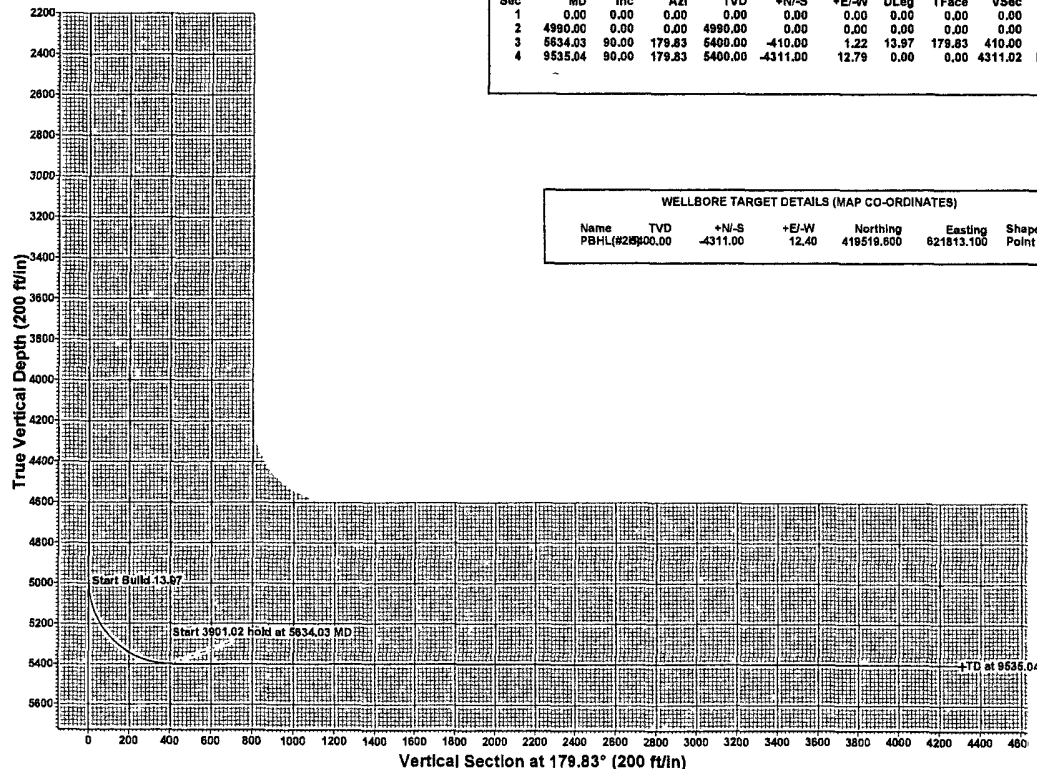


PATHFINDER

WELL DETAILS: #2H						
Ground Elevation: 3118.00						
RKB Elevation: WELL @ 3136.00ft (18' KB Correction)						
Rig Name: 18' KB Correction						
+N-S	+E-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	423830.600	621800.700	32° 9' 52.814 N	103° 58' 22.983 W	

SECTION DETAILS									
Sec	MD	Inc	Azi	TVD	+N-S	+E-W	DLag	TFace	VSec Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	4990.00	0.00	0.00	4990.00	0.00	0.00	0.00	0.00	0.00
3	5634.03	90.00	179.83	5400.00	-410.00	1.22	13.97	179.83	410.00
4	9535.04	90.00	179.83	5400.00	-4311.00	12.79	0.00	0.00	4311.02 PBHL(#2H)

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)						
Name	TVD	+N-S	+E-W	Northing	Easting	Shape
PBHL(#2H)@00.00		-4311.00	12.40	419519.600	621813.100	Point



PROJECT DETAILS: Eddy 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

Plan: Plan #1 (#2H/OH)
Created By: Nate Bingham Date: 9.08, September 11 2009
Checked: _____ Date: _____



OGX Resources

**Eddy County
Challenger 1 State
#2H
OH**

Plan: Plan #1

Pathfinder X & Y Planning Report

11 September, 2009

The word 'PATHFINDER' in a bold, blocky, sans-serif font. The letters are thick and closely spaced. A thick, black, curved line sweeps under the letters from the 'P' to the 'R', creating a sense of motion or a path.



Pathfinder Energy Services
Pathfinder X & Y Planning Report



Company:	OGX Resources	Local Co-ordinate Reference:	Well #2H
Project:	Eddy County	TVD Reference:	WELL @ 3136.00ft (18' KB Correction)
Site:	Challenger 1 State	MD Reference:	WELL @ 3136.00ft (18' KB Correction)
Well:	#2H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	Midland Database

Project	Eddy County, New Mexico		
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	Challenger 1 State		
Site Position:		Northing:	423,830.600 ft
From: Map		Easting:	621,800.700 ft
Position Uncertainty:	0.00 ft	Slot Radius:	"
		Latitude:	32° 9' 52.614 N
		Longitude:	103° 56' 22.983 W
		Grid Convergence:	0.21 °

Well		#2H				
Well Position	+N/-S	0.00 ft	Northing:	423,830.600 ft	Latitude:	32° 9' 52.614 N
	+E/-W	0.00 ft	Easting:	621,800.700 ft	Longitude:	103° 56' 22.983 W
Position Uncertainty	0.00 ft		Wellhead Elevation:	ft	Ground Level:	3,118.00 ft

Wellbore:	OH
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Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	IGRF200510	10/11/2009	7.94	60.12	48,738

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	179.83

Survey Tool Program	Date	09/11/2009		
From	To	Survey (Wellbore)	Tool Name	Description
(ft)	(ft)			
0.00	9,535.04	Plan #1 (OH)	MWD	MWD - Standard



Pathfinder Energy Services
Pathfinder X & Y Planning Report



Company:	OGX Resources	Local Co-ordinate Reference:	Well #2H
Project:	Eddy County	TVD Reference:	WELL @ 3136.00ft (18' KB Correction)
Site:	Challenger 1' State	MD Reference:	WELL @ 3136.00ft (18' KB Correction)
Well:	#2H	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	-3,136.00	0.00	0.00	0.00	0.00	423,830.60	621,800.70	
100.00	0.00	0.00	100.00	-3,036.00	0.00	0.00	0.00	0.00	423,830.60	621,800.70	
200.00	0.00	0.00	200.00	-2,936.00	0.00	0.00	0.00	0.00	423,830.60	621,800.70	
300.00	0.00	0.00	300.00	-2,836.00	0.00	0.00	0.00	0.00	423,830.60	621,800.70	
400.00	0.00	0.00	400.00	-2,736.00	0.00	0.00	0.00	0.00	423,830.60	621,800.70	
500.00	0.00	0.00	500.00	-2,636.00	0.00	0.00	0.00	0.00	423,830.60	621,800.70	
600.00	0.00	0.00	600.00	-2,536.00	0.00	0.00	0.00	0.00	423,830.60	621,800.70	
700.00	0.00	0.00	700.00	-2,436.00	0.00	0.00	0.00	0.00	423,830.60	621,800.70	
800.00	0.00	0.00	800.00	-2,336.00	0.00	0.00	0.00	0.00	423,830.60	621,800.70	
900.00	0.00	0.00	900.00	-2,236.00	0.00	0.00	0.00	0.00	423,830.60	621,800.70	
1,000.00	0.00	0.00	1,000.00	-2,136.00	0.00	0.00	0.00	0.00	423,830.60	621,800.70	
1,100.00	0.00	0.00	1,100.00	-2,036.00	0.00	0.00	0.00	0.00	423,830.60	621,800.70	
1,200.00	0.00	0.00	1,200.00	-1,936.00	0.00	0.00	0.00	0.00	423,830.60	621,800.70	
1,300.00	0.00	0.00	1,300.00	-1,836.00	0.00	0.00	0.00	0.00	423,830.60	621,800.70	
1,400.00	0.00	0.00	1,400.00	-1,736.00	0.00	0.00	0.00	0.00	423,830.60	621,800.70	
1,500.00	0.00	0.00	1,500.00	-1,636.00	0.00	0.00	0.00	0.00	423,830.60	621,800.70	
1,600.00	0.00	0.00	1,600.00	-1,536.00	0.00	0.00	0.00	0.00	423,830.60	621,800.70	
1,700.00	0.00	0.00	1,700.00	-1,436.00	0.00	0.00	0.00	0.00	423,830.60	621,800.70	
1,800.00	0.00	0.00	1,800.00	-1,336.00	0.00	0.00	0.00	0.00	423,830.60	621,800.70	
1,900.00	0.00	0.00	1,900.00	-1,236.00	0.00	0.00	0.00	0.00	423,830.60	621,800.70	
2,000.00	0.00	0.00	2,000.00	-1,136.00	0.00	0.00	0.00	0.00	423,830.60	621,800.70	
2,100.00	0.00	0.00	2,100.00	-1,036.00	0.00	0.00	0.00	0.00	423,830.60	621,800.70	
2,200.00	0.00	0.00	2,200.00	-936.00	0.00	0.00	0.00	0.00	423,830.60	621,800.70	
2,300.00	0.00	0.00	2,300.00	-836.00	0.00	0.00	0.00	0.00	423,830.60	621,800.70	
2,400.00	0.00	0.00	2,400.00	-736.00	0.00	0.00	0.00	0.00	423,830.60	621,800.70	
2,500.00	0.00	0.00	2,500.00	-636.00	0.00	0.00	0.00	0.00	423,830.60	621,800.70	
2,600.00	0.00	0.00	2,600.00	-536.00	0.00	0.00	0.00	0.00	423,830.60	621,800.70	



Pathfinder Energy Services
Pathfinder X & Y Planning Report



Company:	OGX Resources	Local Co-ordinate Reference:	Well #2H
Project:	Eddy County	TVD Reference:	WELL @ 3136.00ft (18' KB Correction)
Site:	Challenger 1 State	MD Reference:	WELL @ 3136.00ft (18' KB Correction)
Well:	#2H	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	-436.00	0.00	0.00	0.00	0.00	423,830.60	621,800.70	
2,800.00	0.00	0.00	2,800.00	-336.00	0.00	0.00	0.00	0.00	423,830.60	621,800.70	
2,900.00	0.00	0.00	2,900.00	-236.00	0.00	0.00	0.00	0.00	423,830.60	621,800.70	
3,000.00	0.00	0.00	3,000.00	-136.00	0.00	0.00	0.00	0.00	423,830.60	621,800.70	
3,100.00	0.00	0.00	3,100.00	-36.00	0.00	0.00	0.00	0.00	423,830.60	621,800.70	
3,200.00	0.00	0.00	3,200.00	64.00	0.00	0.00	0.00	0.00	423,830.60	621,800.70	
3,300.00	0.00	0.00	3,300.00	164.00	0.00	0.00	0.00	0.00	423,830.60	621,800.70	
3,400.00	0.00	0.00	3,400.00	264.00	0.00	0.00	0.00	0.00	423,830.60	621,800.70	
3,500.00	0.00	0.00	3,500.00	364.00	0.00	0.00	0.00	0.00	423,830.60	621,800.70	
3,600.00	0.00	0.00	3,600.00	464.00	0.00	0.00	0.00	0.00	423,830.60	621,800.70	
3,700.00	0.00	0.00	3,700.00	564.00	0.00	0.00	0.00	0.00	423,830.60	621,800.70	
3,800.00	0.00	0.00	3,800.00	664.00	0.00	0.00	0.00	0.00	423,830.60	621,800.70	
3,900.00	0.00	0.00	3,900.00	764.00	0.00	0.00	0.00	0.00	423,830.60	621,800.70	
4,000.00	0.00	0.00	4,000.00	864.00	0.00	0.00	0.00	0.00	423,830.60	621,800.70	
4,100.00	0.00	0.00	4,100.00	964.00	0.00	0.00	0.00	0.00	423,830.60	621,800.70	
4,200.00	0.00	0.00	4,200.00	1,064.00	0.00	0.00	0.00	0.00	423,830.60	621,800.70	
4,300.00	0.00	0.00	4,300.00	1,164.00	0.00	0.00	0.00	0.00	423,830.60	621,800.70	
4,400.00	0.00	0.00	4,400.00	1,264.00	0.00	0.00	0.00	0.00	423,830.60	621,800.70	
4,500.00	0.00	0.00	4,500.00	1,364.00	0.00	0.00	0.00	0.00	423,830.60	621,800.70	
4,600.00	0.00	0.00	4,600.00	1,464.00	0.00	0.00	0.00	0.00	423,830.60	621,800.70	
4,700.00	0.00	0.00	4,700.00	1,564.00	0.00	0.00	0.00	0.00	423,830.60	621,800.70	
4,800.00	0.00	0.00	4,800.00	1,664.00	0.00	0.00	0.00	0.00	423,830.60	621,800.70	
4,900.00	0.00	0.00	4,900.00	1,764.00	0.00	0.00	0.00	0.00	423,830.60	621,800.70	
4,990.00	0.00	0.00	4,990.00	1,854.00	0.00	0.00	0.00	0.00	423,830.60	621,800.70	
5,000.00	1.40	179.83	5,000.00	1,864.00	-0.12	0.00	0.12	13.97	423,830.48	621,800.70	
5,025.00	4.89	179.83	5,024.96	1,888.96	-1.49	0.00	1.49	13.97	423,829.11	621,800.70	
5,050.00	8.38	179.83	5,049.79	1,913.79	-4.38	0.01	4.38	13.97	423,826.22	621,800.71	



Pathfinder Energy Services
Pathfinder X & Y Planning Report



Company:	OGX Resources	Local Co-ordinate Reference:	Well #2H
Project:	Eddy County	TVD Reference:	WELL @ 3136.00ft (18' KB Correction)
Site:	Challenger 1 State	MD Reference:	WELL @ 3136.00ft (18' KB Correction)
Well:	#2H	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)	
5,075.00	11.88	179.83	5,074.39	1,938.39	-8.78	0.03	8.78	13.97	423,821.82	621,800.73	
5,100.00	15.37	179.83	5,098.69	1,962.69	-14.67	0.04	14.67	13.97	423,815.93	621,800.74	
5,125.00	18.87	179.83	5,122.57	1,986.57	-22.03	0.07	22.03	13.97	423,808.57	621,800.77	
5,150.00	22.36	179.83	5,145.97	2,009.97	-30.83	0.09	30.83	13.97	423,799.77	621,800.79	
5,175.00	25.85	179.83	5,168.79	2,032.79	-41.03	0.12	41.03	13.97	423,789.57	621,800.82	
5,200.00	29.35	179.83	5,190.94	2,054.94	-52.61	0.16	52.61	13.97	423,777.99	621,800.86	
5,225.00	32.84	179.83	5,212.34	2,076.34	-65.52	0.19	65.52	13.97	423,765.08	621,800.89	
5,250.00	36.33	179.83	5,232.92	2,096.92	-79.71	0.24	79.71	13.97	423,750.89	621,800.94	
5,275.00	39.83	179.83	5,252.60	2,116.60	-95.13	0.28	95.13	13.97	423,735.47	621,800.98	
5,300.00	43.32	179.83	5,271.30	2,135.30	-111.72	0.33	111.72	13.97	423,718.88	621,801.03	
5,325.00	46.81	179.83	5,288.95	2,152.95	-129.41	0.38	129.41	13.97	423,701.19	621,801.08	
5,350.00	50.31	179.83	5,305.49	2,169.49	-148.15	0.44	148.15	13.97	423,682.45	621,801.14	
5,375.00	53.80	179.83	5,320.86	2,184.86	-167.86	0.50	167.86	13.97	423,662.74	621,801.20	
5,400.00	57.30	179.83	5,335.00	2,199.00	-188.48	0.56	188.48	13.97	423,642.12	621,801.26	
5,425.00	60.79	179.83	5,347.86	2,211.86	-209.91	0.62	209.91	13.97	423,620.69	621,801.32	
5,450.00	64.28	179.83	5,359.39	2,223.39	-232.09	0.69	232.09	13.97	423,598.51	621,801.39	
5,475.00	67.78	179.83	5,369.54	2,233.54	-254.93	0.76	254.93	13.97	423,575.67	621,801.46	
5,500.00	71.27	179.83	5,378.29	2,242.29	-278.35	0.83	278.35	13.97	423,552.25	621,801.53	
5,525.00	74.76	179.83	5,385.59	2,249.59	-302.25	0.90	302.25	13.97	423,528.35	621,801.60	
5,550.00	78.26	179.83	5,391.42	2,255.42	-326.56	0.97	326.56	13.97	423,504.04	621,801.67	
5,575.00	81.75	179.83	5,395.76	2,259.76	-351.18	1.04	351.18	13.97	423,479.42	621,801.74	
5,600.00	85.24	179.83	5,398.59	2,262.59	-376.01	1.12	376.01	13.97	423,454.59	621,801.82	
5,625.00	88.74	179.83	5,399.90	2,263.90	-400.97	1.19	400.97	13.97	423,429.63	621,801.89	
5,634.03	90.00	179.83	5,400.00	2,264.00	-410.00	1.22	410.00	13.97	423,420.60	621,801.92	
5,700.00	90.00	179.83	5,400.00	2,264.00	-475.97	1.41	475.97	0.00	423,354.63	621,802.11	
5,800.00	90.00	179.83	5,400.00	2,264.00	-575.97	1.71	575.97	0.00	423,254.63	621,802.41	
5,900.00	90.00	179.83	5,400.00	2,264.00	-675.97	2.01	675.97	0.00	423,154.63	621,802.71	



Pathfinder Energy Services
Pathfinder X & Y Planning Report



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Project:	Eddy County	TVD Reference:	WELL @ 3136.00ft (18' KB Correction)
Site:	Challenger 1 State	MD Reference:	WELL @ 3136.00ft (18' KB Correction)
Well:	#2H	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)
6,000.00	90.00	179.83	5,400.00	2,264.00	-775.97	2.30	775.97	0.00	423,054.63	621,803.00
6,100.00	90.00	179.83	5,400.00	2,264.00	-875.97	2.60	875.97	0.00	422,954.63	621,803.30
6,200.00	90.00	179.83	5,400.00	2,264.00	-975.97	2.90	975.97	0.00	422,854.63	621,803.60
6,300.00	90.00	179.83	5,400.00	2,264.00	-1,075.97	3.19	1,075.97	0.00	422,754.63	621,803.89
6,400.00	90.00	179.83	5,400.00	2,264.00	-1,175.97	3.49	1,175.97	0.00	422,654.63	621,804.19
6,500.00	90.00	179.83	5,400.00	2,264.00	-1,275.97	3.79	1,275.97	0.00	422,554.63	621,804.49
6,600.00	90.00	179.83	5,400.00	2,264.00	-1,375.97	4.08	1,375.97	0.00	422,454.63	621,804.78
6,700.00	90.00	179.83	5,400.00	2,264.00	-1,475.97	4.38	1,475.97	0.00	422,354.63	621,805.08
6,800.00	90.00	179.83	5,400.00	2,264.00	-1,575.97	4.68	1,575.97	0.00	422,254.63	621,805.38
6,900.00	90.00	179.83	5,400.00	2,264.00	-1,675.97	4.97	1,675.97	0.00	422,154.63	621,805.67
7,000.00	90.00	179.83	5,400.00	2,264.00	-1,775.97	5.27	1,775.97	0.00	422,054.63	621,805.97
7,100.00	90.00	179.83	5,400.00	2,264.00	-1,875.97	5.57	1,875.97	0.00	421,954.63	621,806.27
7,200.00	90.00	179.83	5,400.00	2,264.00	-1,975.96	5.86	1,975.97	0.00	421,854.64	621,806.56
7,300.00	90.00	179.83	5,400.00	2,264.00	-2,075.96	6.16	2,075.97	0.00	421,754.64	621,806.86
7,400.00	90.00	179.83	5,400.00	2,264.00	-2,175.96	6.46	2,175.97	0.00	421,654.64	621,807.16
7,500.00	90.00	179.83	5,400.00	2,264.00	-2,275.96	6.75	2,275.97	0.00	421,554.64	621,807.45
7,600.00	90.00	179.83	5,400.00	2,264.00	-2,375.96	7.05	2,375.97	0.00	421,454.64	621,807.75
7,700.00	90.00	179.83	5,400.00	2,264.00	-2,475.96	7.35	2,475.97	0.00	421,354.64	621,808.05
7,800.00	90.00	179.83	5,400.00	2,264.00	-2,575.96	7.64	2,575.97	0.00	421,254.64	621,808.34
7,900.00	90.00	179.83	5,400.00	2,264.00	-2,675.96	7.94	2,675.97	0.00	421,154.64	621,808.64
8,000.00	90.00	179.83	5,400.00	2,264.00	-2,775.96	8.24	2,775.97	0.00	421,054.64	621,808.94
8,100.00	90.00	179.83	5,400.00	2,264.00	-2,875.96	8.53	2,875.97	0.00	420,954.64	621,809.23
8,200.00	90.00	179.83	5,400.00	2,264.00	-2,975.96	8.83	2,975.97	0.00	420,854.64	621,809.53
8,300.00	90.00	179.83	5,400.00	2,264.00	-3,075.96	9.13	3,075.97	0.00	420,754.64	621,809.83
8,400.00	90.00	179.83	5,400.00	2,264.00	-3,175.96	9.42	3,175.97	0.00	420,654.64	621,810.12
8,500.00	90.00	179.83	5,400.00	2,264.00	-3,275.96	9.72	3,275.97	0.00	420,554.64	621,810.42
8,600.00	90.00	179.83	5,400.00	2,264.00	-3,375.96	10.02	3,375.97	0.00	420,454.64	621,810.72



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Pathfinder X & Y Planning Report



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Project:	Eddy County	TVD Reference:	WELL @ 3136.00ft (18' KB Correction)
Site:	Challenger 1 State	MD Reference:	WELL @ 3136.00ft (18' KB Correction)
Well:	#2H	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)
8,700.00	90.00	179.83	5,400.00	2,264.00	-3,475.96	10.31	3,475.97	0.00	420,354.64	621,811.01
8,800.00	90.00	179.83	5,400.00	2,264.00	-3,575.96	10.61	3,575.97	0.00	420,254.64	621,811.31
8,900.00	90.00	179.83	5,400.00	2,264.00	-3,675.96	10.91	3,675.97	0.00	420,154.64	621,811.61
9,000.00	90.00	179.83	5,400.00	2,264.00	-3,775.96	11.20	3,775.97	0.00	420,054.64	621,811.90
9,100.00	90.00	179.83	5,400.00	2,264.00	-3,875.96	11.50	3,875.97	0.00	419,954.64	621,812.20
9,200.00	90.00	179.83	5,400.00	2,264.00	-3,975.96	11.80	3,975.97	0.00	419,854.64	621,812.50
9,300.00	90.00	179.83	5,400.00	2,264.00	-4,075.96	12.09	4,075.97	0.00	419,754.64	621,812.79
9,400.00	90.00	179.83	5,400.00	2,264.00	-4,175.96	12.39	4,175.97	0.00	419,654.64	621,813.09
9,500.00	90.00	179.83	5,400.00	2,264.00	-4,275.95	12.69	4,275.97	0.00	419,554.65	621,813.39
9,535.04	90.00	179.83	5,400.00	2,264.00	-4,311.00	12.79	4,311.02	0.00	419,519.60	621,813.49

PBHL(#2H)

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
PBHL(#2H) - plan hits target - Point	0.00	0.00	5,400.00	-4,311.00	12.40	419,519.600	621,813.100	32° 9' 9.951 N	103° 56' 23.023 W

Checked By: _____ Approved By: _____ Date: _____