

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.
Santa Fe, NM 87505

AUG 12 2008
Submit to appropriate District Office

OCD-ARTESIA
OCD-ARTESIA REPORT

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

Operator Name and Address OGX RESOURCES, LLC. P.O. BOX 2064 MIDLAND, TEXAS 79702		OGRID Number 217955 API Number 30 - 015-365 35
Property Code 37322	Property Name CHALLENGER "1" STATE	Well No. 1H
Proposed Pool 1 PIERCE CROSSING EAST-BONE SPRING (96473)		Proposed Pool 2

Surface Location									
UL or lot no. D D	Section 1	Township 25S	Range 29E	Lot 1dn	Feet from the 660'	North/South line North	Feet from the 660'	East/West line West	County Eddy

Proposed Bottom Hole Location If Different From Surface									
UL or lot no. M	Section 1	Township 25S	Range 29E	Lot 1dn	Feet from the 350'	North/South line South	Feet from the 660'	East/West line West	County Eddy

Additional Well Information				
Work Type Code N	Well Type Code O	Cable/Rotary ROTARY	Lease Type Code S	Ground Level Elevation 3100'
Multiple NO	Proposed Depth TVD-7550, MD-11627	Formation BONE SPRING	Contractor Patriot Rig 5	Spud Date WHEN APPROVED

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
12 1/4"	9 5/8"	36#	2700'	600 Sx.	Surface
8 3/4"	5 1/2"	17 & 20#	MD-11,627'	2085 Sx.	2500' from surface
			TVD-7550'		

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.

NOTE: NEW PIT RULE
19-15-17 NMAC PART 17
A form C-144 must be approved
before starting drilling operations.

SEE ATTACHED SHEET FOR DETAIL

I hereby certify that the information given above is true and complete to the best of my knowledge and belief.		OIL CONSERVATION DIVISION	
Signature: Joe T. Janica		Approved by: Jim W. Groom	
Printed name: Joe T. Janica		Title: District II Supervisor	
Title: Permit Eng.		Approval Date: 8/20/08	Expiration Date: 8/20/10
E-mail Address: joejanica@valornet.com			
Date: 08/11/08	Phone: 575-391-8503	Conditions of Approval Attached ☐	

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

S

State of New Mexico
Energy, Minerals and Natural Resources Department

AUG 14 2008

OCD-ARTESIA

Form C-102

Revised October 12, 2005

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number	Pool Code 96473	Pool Name PIERCE CROSSING EAST-BONE SPRING
Property Code	Property Name CHALLENGER 1 STATE	Well Number 1H
OGRID No. 217955	Operator Name OGX RESOURCES	Elevation 3100'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
4	1	25-S	29-E		660	NORTH	660	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
M	1	25-S	29-E		350	SOUTH	660	WEST	EDDY

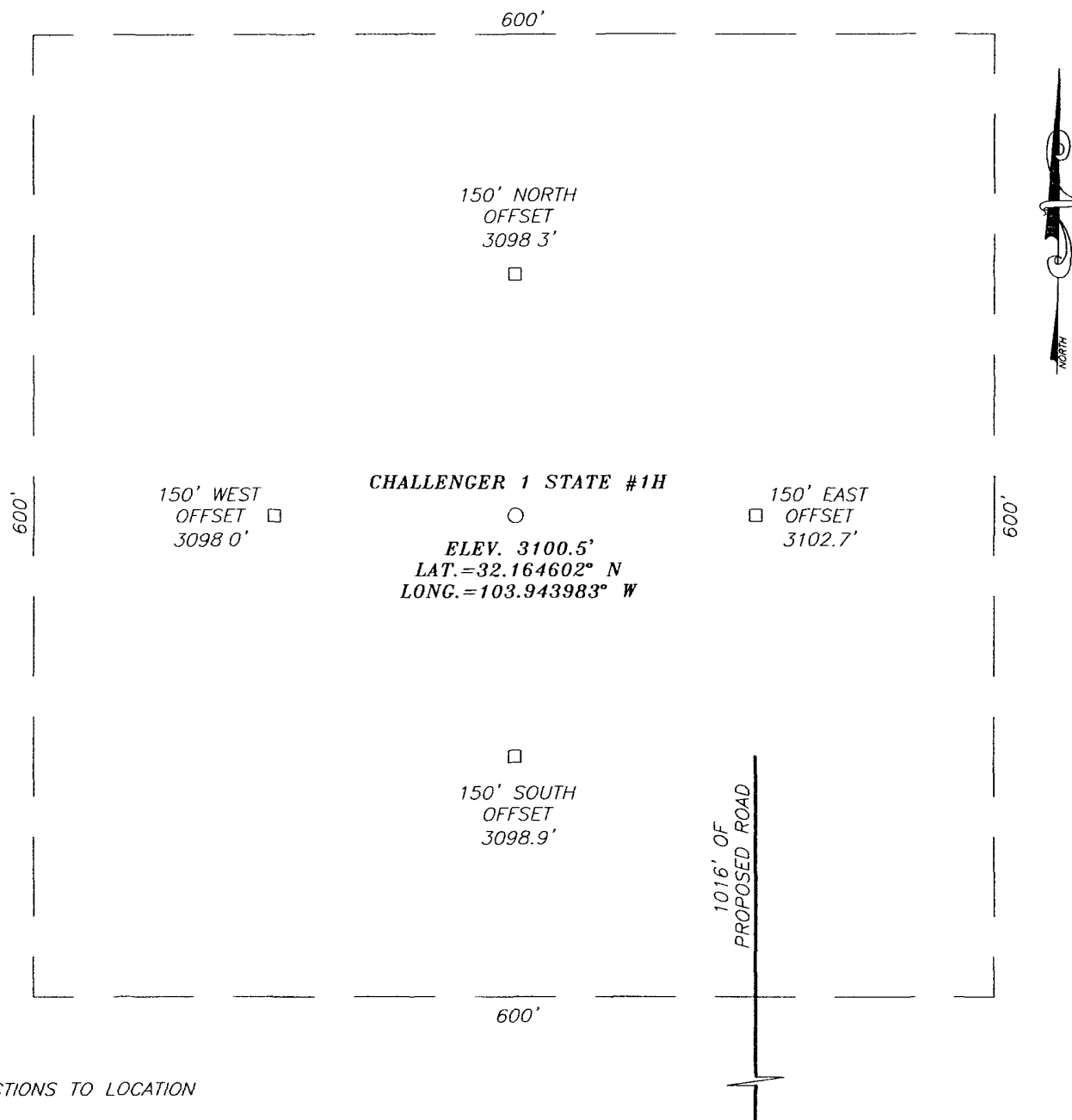
Dedicated Acres 160	Joint or Infill	Consolidation Code	Order No.
------------------------	-----------------	--------------------	-----------

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. Signature: Joe T. Janica Date: 08/13/08 Printed Name: Joe T. Janica 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. Date Surveyed: AUGUST 5, 2008 Signature & Seal of Professional Surveyor: RONALD J. EIDSON Certificate No. GARY EIDSON 12641, RONALD EIDSON 3239
--	---

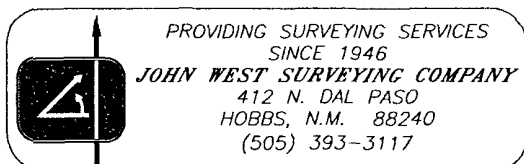
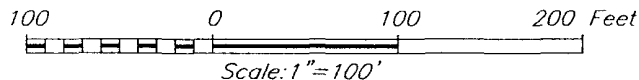
1. Drill 26" hole to 40'. Set 40' of 20" conductor pipe and cement to surface with Redi-mix.
2. Drill 17½" hole to 525±'. Run and set 525±' of 13 3/8" 54.5# J-55 ST&C casing. Cement with 180 Sx. of 35/65/6 Premium Plus Class "C" POZ cement + 5% Salt, + 5% MPA-5, + .7% Sodium Metasilicate, + 5# LCM/Sx. Yield 2.0, tail in with 200 Sx. of Premium Plus Class "C" cement + 2% CaCl, Yield 1.34, circulate cement to surface.
3. Drill 12¼" hole to 2700±'. Run and set 2700±' of 9 5/8" 36# J-55 ST&C casing. Cement with 400 Sx. of 35/65 Premium Plus Class "C" POX, + 4% Bentonite, + 5% Salt, + 5% MPA-5, + .7% Sodium Metasilicate, + 5# LCM/Sx. Yield 2.02, tail in with 200 Sx. of Class "C" Premium Plus cement + 2% CaCl, Yield 1.34, circulate cement.
4. Drill 8 3/4" hole to 100' below kickoff point, set cement plug and kickoff with a 7 7/8" hole drill to a MD- 11,627 TVD-7550'. Run and set 5½" casing as follows: 4627' of 5½" 20# P-110 BT&C, 7000' of 5½" 17# N-80 LT&C. Cement in two stages with DV Tool at 5800'±. Cement 1st stage with 1450 Sx. of premium Plus Class "H" cement + .7% FL-62, + .4% BA-10A, + .1% FL-52, + 45.8% fresh water, Yield 1.18. Cement 2nd stage with 535 Sx. of 50/50 Class "C" POZ + 10% Bentonite + 5% Salt, + 139% fresh water. Yield 2.44. Tail in with 100 Sx. of Class "C" Premium Plus cement + additives Yield 1.33. Top of cement 2500' from surface.

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. TURN RIGHT AND GO WEST APPROX. 1.5 MILES. TURN RIGHT AND GO NORTH APPROX. 1.0 MILE. TURN LEFT AND GO WEST, THEN NORTHWEST APPROX. 1.6 MILES TO A PROPOSED ROAD SURVEY. FOLLOW ROAD SURVEY NORTH APPROX. 1175 FEET TO THIS LOCATION

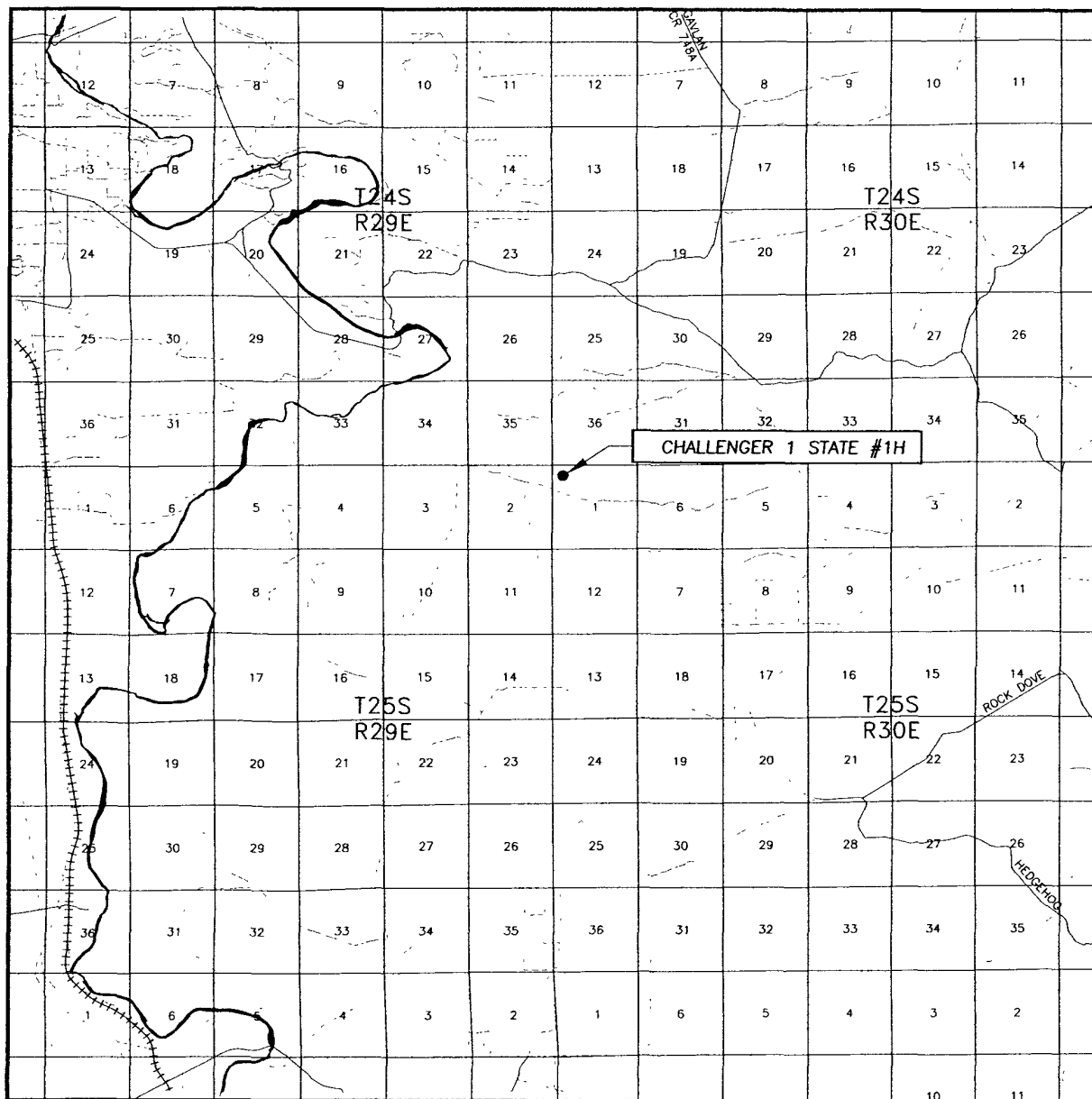


OGX RESOURCES

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

Survey Date: 8/5/08	Sheet 1 of 1 Sheets
W.O. Number: 08.11.1262	Dr By: LA
Date: 8/7/08	08111262
	Scale: 1"=100'

VICINITY MAP



SCALE: 1" = 2 MILES

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

SURVEY N.M.P.M.

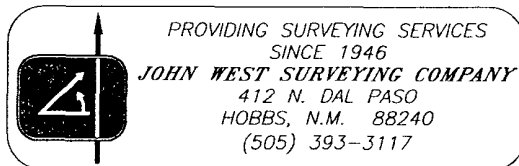
COUNTY EDDY STATE NEW MEXICO

DESCRIPTION 660' FNL & 660' FWL

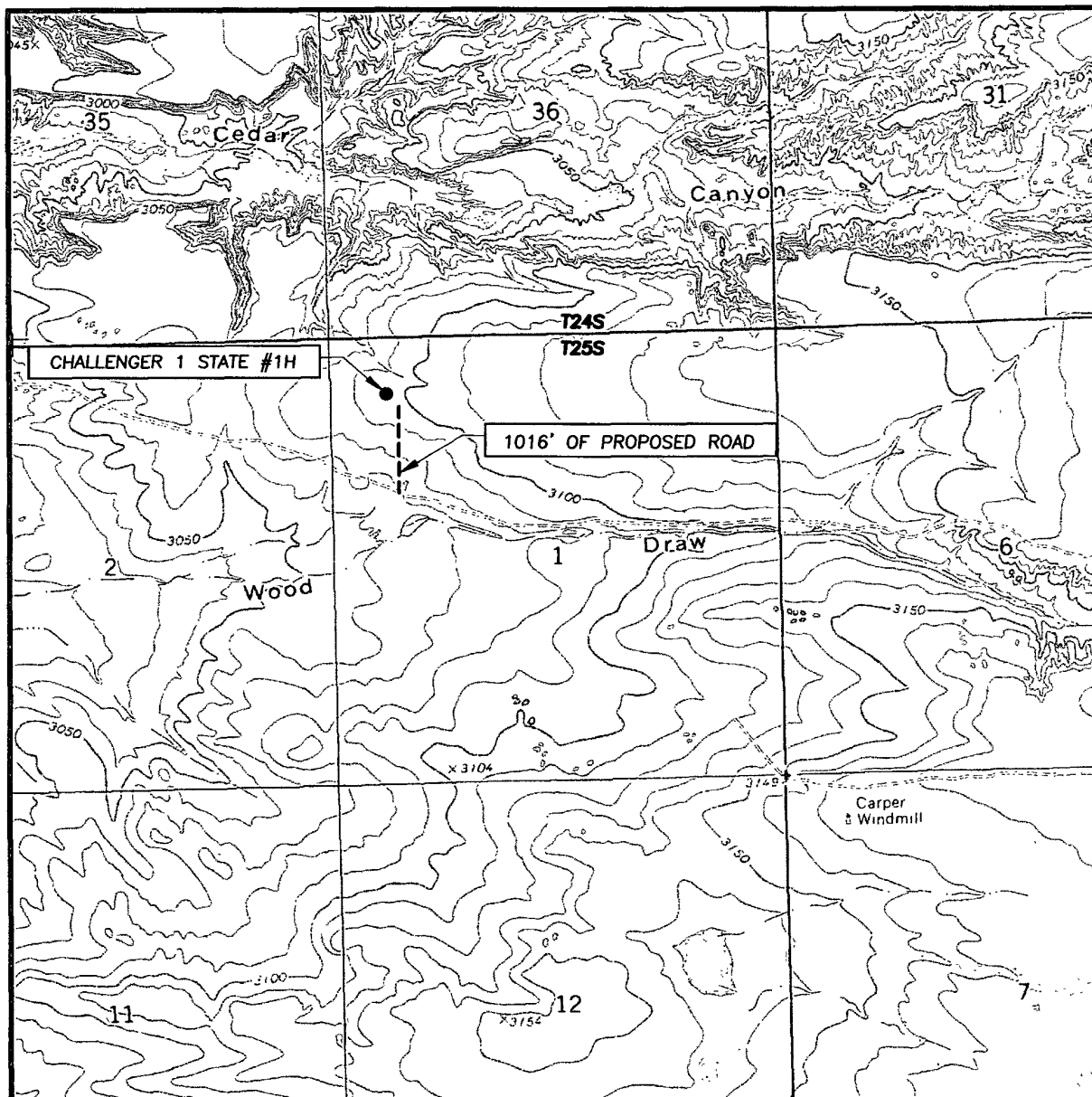
ELEVATION 3100'

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 & 660' FWL

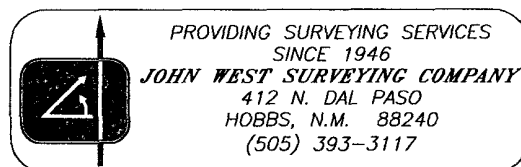
ELEVATION 3100'

OPERATOR OGX RESOURCES

LEASE CHALLENGER 1 STATE

U.S.G.S. TOPOGRAPHIC MAP

PIERCE CANYON, N.M.



OGX Resources

Eddy County

S1 T25S R29E

Challenger 1 State #1

OH

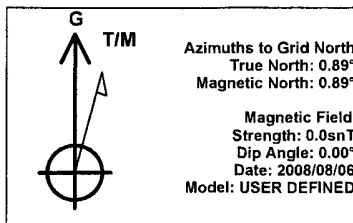
Plan: Plan #1

Pathfinder X & Y Survey Report

06 August, 2008

PATHFINDER
ENERGY SERVICES

OGX Resources

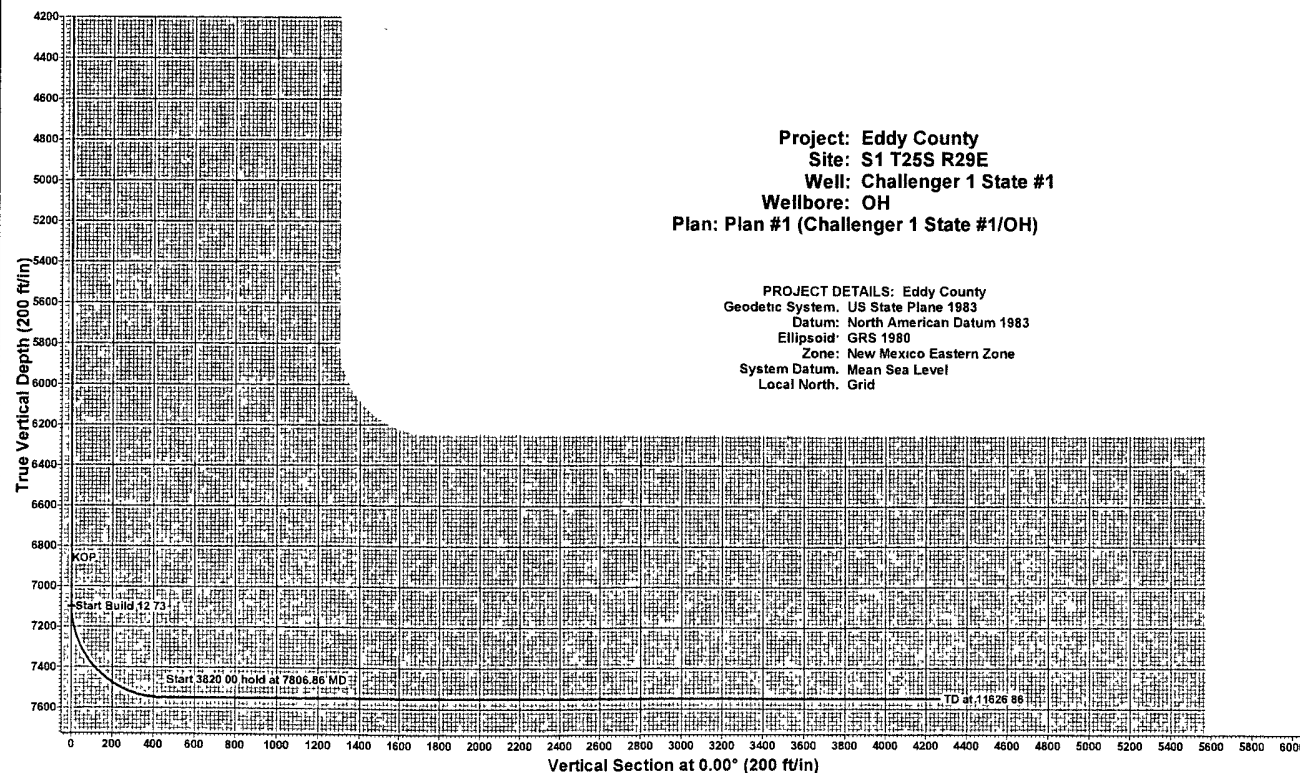


PATHFINDER ENERGY SERVICES

WELL DETAILS Challenger 1 State #1						
Ground Elevation: 0.00						
RKB Elevation: WELL @ 0.00ft (Original Well Elev)						
Rig Name: Original Well Elev						
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	0.000	0.000	30° 59' 18.404 N	106° 3' 35.967 W	

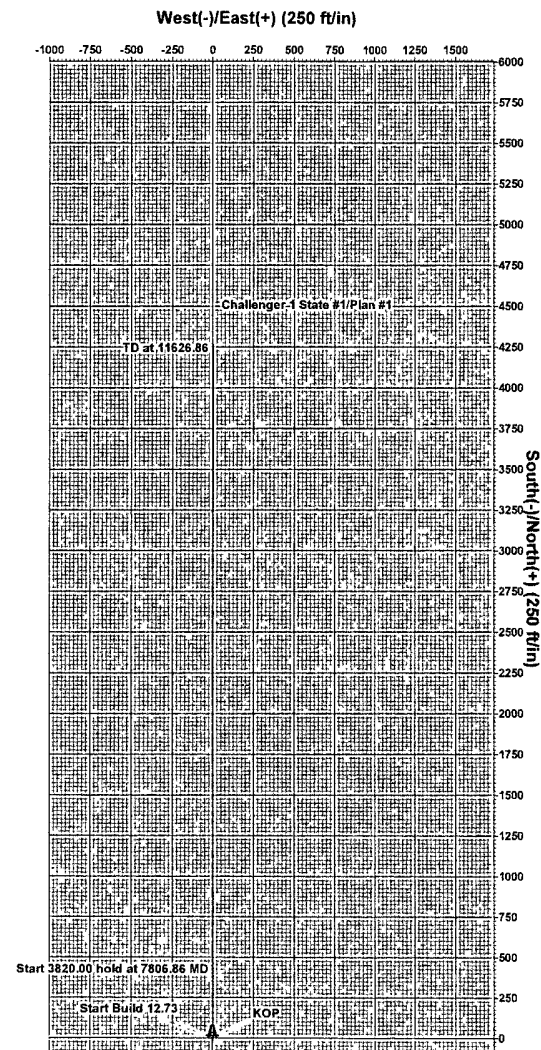
SECTION DETAILS									
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	7100.00	0.00	0.00	7100.00	0.00	0.00	0.00	0.00	KOP
3	7806.86	90.00	360.00	7550.00	450.00	0.00	12.73	360.00	450.00
4	11626.86	90.00	360.00	7550.00	4270.00	0.00	0.00	0.00	4270.00

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)						
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
KOP	7100.00	0.00	0.00	0.000	0.000	Point
PEHL OHF550.00		-4270.00	0.00	-4270.000	0.000	Point



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

PROJECT DETAILS: Eddy County
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 (Challenger 1 State #1/OH)
Created By: Nate Bingham Date: 13 28, August 08 2008
Checked: _____ Date: _____

Pathfinder Energy Services
Pathfinder X & Y Survey Report



Company:	OGX Resources	Local Co-ordinate Reference:	Well Challenger 1 State #1
Project:	Eddy County	TVD Reference:	WELL @ 0.00ft (Original Well Elev)
Site:	S1 T25S R29E	MD Reference:	WELL @ 0.00ft (Original Well Elev)
Well:	Challenger 1 State #1	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	EDM 2003.16 Single User Db

Project	Eddy County, New Mexico		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	S1 T25S R29E
-------------	--------------

Site Position:		Northing:	ft	Latitude:	
From:	None	Easting:	ft	Longitude:	
Position Uncertainty:	0.00 ft	Slot Radius:	"	Grid Convergence:	0.00 °

Well	Challenger 1 State #1				
Well Position	+N/-S	0.00 ft	Northing:	0.000 ft	Latitude: 30° 59' 18.404 N
	+E/-W	0.00 ft	Easting:	0.000 ft	Longitude: 106° 3' 38.987 W
Position Uncertainty	0.00 ft		Wellhead Elevation:	ft	Ground Level: 0.00 ft

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

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	User Defined	2008/08/06	0.00	0.00	0

Design	Plan #1
---------------	---------

Audit Notes:	
Version:	Phase: PLAN Tie On Depth: 0.00

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

Survey Tool Program	Date 2008/08/06			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.00	11,626.86	Plan #1 (OH)	MWD	MWD - Standard

Pathfinder Energy Services
Pathfinder X & Y Survey Report



Company:	OGX Resources	Local Co-ordinate Reference:	Well Challenger 1 State #1
Project:	Eddy County	TVD Reference:	WELL @ 0.00ft (Original Well Elev)
Site:	S1 T25S R29E	MD Reference:	WELL @ 0.00ft (Original Well Elev)
Well:	Challenger 1 State #1	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	EDM 2003.16 Single User 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Pathfinder Energy Services
Pathfinder X & Y Survey Report



Company:	OGX Resources	Local Co-ordinate Reference:	Well Challenger 1 State #1
Project:	Eddy County	TVD Reference:	WELL @ 0.00ft (Original Well Elev)
Site:	S1 T25S R29E	MD Reference:	WELL @ 0.00ft (Original Well Elev)
Well:	Challenger 1 State #1	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	EDM 2003.16 Single User 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	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,400.00	0.00	0.00	4,400.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,500.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,600.00	0.00	0.00	4,600.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,700.00	0.00	0.00	4,700.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,800.00	0.00	0.00	4,800.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,900.00	0.00	0.00	4,900.00	4,900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5,000.00	0.00	0.00	5,000.00	5,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5,100.00	0.00	0.00	5,100.00	5,100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5,200.00	0.00	0.00	5,200.00	5,200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5,300.00	0.00	0.00	5,300.00	5,300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Pathfinder Energy Services
Pathfinder X & Y Survey Report



Company:	OGX Resources	Local Co-ordinate Reference:	Well Challenger 1 State #1
Project:	Eddy County	TVD Reference:	WELL @ 0.00ft (Original Well Elev)
Site:	S1 T25S R29E	MD Reference:	WELL @ 0.00ft (Original Well Elev)
Well:	Challenger 1 State #1	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	EDM 2003.16 Single User 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)	
5,400.00	0.00	0.00	5,400.00	5,400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5,500.00	0.00	0.00	5,500.00	5,500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5,600.00	0.00	0.00	5,600.00	5,600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5,700.00	0.00	0.00	5,700.00	5,700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5,800.00	0.00	0.00	5,800.00	5,800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5,900.00	0.00	0.00	5,900.00	5,900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6,000.00	0.00	0.00	6,000.00	6,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6,100.00	0.00	0.00	6,100.00	6,100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6,200.00	0.00	0.00	6,200.00	6,200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6,300.00	0.00	0.00	6,300.00	6,300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6,400.00	0.00	0.00	6,400.00	6,400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6,500.00	0.00	0.00	6,500.00	6,500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6,600.00	0.00	0.00	6,600.00	6,600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6,700.00	0.00	0.00	6,700.00	6,700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6,800.00	0.00	0.00	6,800.00	6,800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6,900.00	0.00	0.00	6,900.00	6,900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7,000.00	0.00	0.00	7,000.00	7,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7,100.00	0.00	0.00	7,100.00	7,100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP											
7,125.00	3.18	360.00	7,124.99	7,124.99	0.69	0.00	0.69	12.73	0.69	0.00	0.00
7,150.00	6.37	360.00	7,149.90	7,149.90	2.77	0.00	2.77	12.73	2.77	0.00	0.00
PBHL OH											
7,175.00	9.55	360.00	7,174.65	7,174.65	6.24	0.00	6.24	12.73	6.24	0.00	0.00
7,200.00	12.73	360.00	7,199.18	7,199.18	11.07	0.00	11.07	12.73	11.07	0.00	0.00
7,225.00	15.92	360.00	7,223.40	7,223.40	17.25	0.00	17.25	12.73	17.25	0.00	0.00
7,250.00	19.10	360.00	7,247.24	7,247.24	24.77	0.00	24.77	12.73	24.77	0.00	0.00
7,275.00	22.28	360.00	7,270.62	7,270.62	33.60	0.00	33.60	12.73	33.60	0.00	0.00

Pathfinder Energy Services
Pathfinder X & Y Survey Report



Company:	OGX Resources	Local Co-ordinate Reference:	Well Challenger 1 State #1
Project:	Eddy County	TVD Reference:	WELL @ 0 00ft (Original Well Elev)
Site:	S1 T25S R29E	MD Reference:	WELL @ 0 00ft (Original Well Elev)
Well:	Challenger 1 State #1	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	EDM 2003.16 Single User 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)
7,300.00	25.46	360.00	7,293.48	7,293.48	43.72	0.00	43.72	12.73	43.72	0.00
7,325.00	28.65	360.00	7,315.74	7,315.74	55.09	0.00	55.09	12.73	55.09	0.00
7,350.00	31.83	360.00	7,337.34	7,337.34	67.68	0.00	67.68	12.73	67.68	0.00
7,375.00	35.01	360.00	7,358.20	7,358.20	81.45	0.00	81.45	12.73	81.45	0.00
7,400.00	38.20	360.00	7,378.27	7,378.27	96.35	0.00	96.35	12.73	96.35	0.00
7,425.00	41.38	360.00	7,397.47	7,397.47	112.35	0.00	112.35	12.73	112.35	0.00
7,450.00	44.56	360.00	7,415.76	7,415.76	129.39	0.00	129.39	12.73	129.39	0.00
7,475.00	47.75	360.00	7,433.08	7,433.08	147.41	0.00	147.41	12.73	147.41	0.00
7,500.00	50.93	360.00	7,449.37	7,449.37	166.38	0.00	166.38	12.73	166.38	0.00
7,525.00	54.11	360.00	7,464.58	7,464.58	186.21	0.00	186.21	12.73	186.21	0.00
7,550.00	57.30	360.00	7,478.66	7,478.66	206.86	0.00	206.86	12.73	206.86	0.00
7,575.00	60.48	360.00	7,491.58	7,491.58	228.27	0.00	228.27	12.73	228.27	0.00
7,600.00	63.66	360.00	7,503.29	7,503.29	250.35	0.00	250.35	12.73	250.35	0.00
7,625.00	66.85	360.00	7,513.75	7,513.75	273.05	0.00	273.05	12.73	273.05	0.00
7,650.00	70.03	360.00	7,522.94	7,522.94	296.30	0.00	296.30	12.73	296.30	0.00
7,675.00	73.21	360.00	7,530.82	7,530.82	320.02	0.00	320.02	12.73	320.02	0.00
7,700.00	76.39	360.00	7,537.37	7,537.37	344.14	0.00	344.14	12.73	344.14	0.00
7,725.00	79.58	360.00	7,542.58	7,542.58	368.59	0.00	368.59	12.73	368.59	0.00
7,750.00	82.76	360.00	7,546.41	7,546.41	393.29	0.00	393.29	12.73	393.29	0.00
7,775.00	85.94	360.00	7,548.87	7,548.87	418.17	0.00	418.17	12.73	418.17	0.00
7,800.00	89.13	360.00	7,549.95	7,549.95	443.14	0.00	443.14	12.73	443.14	0.00
7,806.86	90.00	360.00	7,550.00	7,550.00	450.00	0.00	450.00	12.73	450.00	0.00
7,900.00	90.00	360.00	7,550.00	7,550.00	543.14	0.00	543.14	0.00	543.14	0.00
8,000.00	90.00	360.00	7,550.00	7,550.00	643.14	0.00	643.14	0.00	643.14	0.00
8,100.00	90.00	360.00	7,550.00	7,550.00	743.14	0.00	743.14	0.00	743.14	0.00
8,200.00	90.00	360.00	7,550.00	7,550.00	843.14	0.00	843.14	0.00	843.14	0.00
8,300.00	90.00	360.00	7,550.00	7,550.00	943.14	0.00	943.14	0.00	943.14	0.00

Pathfinder Energy Services
Pathfinder X & Y Survey Report



Company:	OGX Resources	Local Co-ordinate Reference:	Well Challenger 1 State #1
Project:	Eddy County	TVD Reference:	WELL @ 0.00ft (Original Well Elev)
Site:	S1 T25S R29E	MD Reference:	WELL @ 0.00ft (Original Well Elev)
Well:	Challenger 1 State #1	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	EDM 2003.16 Single User 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)	
8,400.00	90.00	360.00	7,550.00	7,550.00	1,043.14	0.00	1,043.14	0.00	1,043.14	0.00	
8,500.00	90.00	360.00	7,550.00	7,550.00	1,143.14	0.00	1,143.14	0.00	1,143.14	0.00	
8,600.00	90.00	360.00	7,550.00	7,550.00	1,243.14	0.00	1,243.14	0.00	1,243.14	0.00	
8,700.00	90.00	360.00	7,550.00	7,550.00	1,343.14	0.00	1,343.14	0.00	1,343.14	0.00	
8,800.00	90.00	360.00	7,550.00	7,550.00	1,443.14	0.00	1,443.14	0.00	1,443.14	0.00	
8,900.00	90.00	360.00	7,550.00	7,550.00	1,543.14	0.00	1,543.14	0.00	1,543.14	0.00	
9,000.00	90.00	360.00	7,550.00	7,550.00	1,643.14	0.00	1,643.14	0.00	1,643.14	0.00	
9,100.00	90.00	360.00	7,550.00	7,550.00	1,743.14	0.00	1,743.14	0.00	1,743.14	0.00	
9,200.00	90.00	360.00	7,550.00	7,550.00	1,843.14	0.00	1,843.14	0.00	1,843.14	0.00	
9,300.00	90.00	360.00	7,550.00	7,550.00	1,943.14	0.00	1,943.14	0.00	1,943.14	0.00	
9,400.00	90.00	360.00	7,550.00	7,550.00	2,043.14	0.00	2,043.14	0.00	2,043.14	0.00	
9,500.00	90.00	360.00	7,550.00	7,550.00	2,143.14	0.00	2,143.14	0.00	2,143.14	0.00	
9,600.00	90.00	360.00	7,550.00	7,550.00	2,243.14	0.00	2,243.14	0.00	2,243.14	0.00	
9,700.00	90.00	360.00	7,550.00	7,550.00	2,343.14	0.00	2,343.14	0.00	2,343.14	0.00	
9,800.00	90.00	360.00	7,550.00	7,550.00	2,443.14	0.00	2,443.14	0.00	2,443.14	0.00	
9,900.00	90.00	360.00	7,550.00	7,550.00	2,543.14	0.00	2,543.14	0.00	2,543.14	0.00	
10,000.00	90.00	360.00	7,550.00	7,550.00	2,643.14	0.00	2,643.14	0.00	2,643.14	0.00	
10,100.00	90.00	360.00	7,550.00	7,550.00	2,743.14	0.00	2,743.14	0.00	2,743.14	0.00	
10,200.00	90.00	360.00	7,550.00	7,550.00	2,843.14	0.00	2,843.14	0.00	2,843.14	0.00	
10,300.00	90.00	360.00	7,550.00	7,550.00	2,943.14	0.00	2,943.14	0.00	2,943.14	0.00	
10,400.00	90.00	360.00	7,550.00	7,550.00	3,043.14	0.00	3,043.14	0.00	3,043.14	0.00	
10,500.00	90.00	360.00	7,550.00	7,550.00	3,143.14	0.00	3,143.14	0.00	3,143.14	0.00	
10,600.00	90.00	360.00	7,550.00	7,550.00	3,243.14	0.00	3,243.14	0.00	3,243.14	0.00	
10,700.00	90.00	360.00	7,550.00	7,550.00	3,343.14	0.00	3,343.14	0.00	3,343.14	0.00	
10,800.00	90.00	360.00	7,550.00	7,550.00	3,443.14	0.00	3,443.14	0.00	3,443.14	0.00	
10,900.00	90.00	360.00	7,550.00	7,550.00	3,543.14	0.00	3,543.14	0.00	3,543.14	0.00	
11,000.00	90.00	360.00	7,550.00	7,550.00	3,643.14	0.00	3,643.14	0.00	3,643.14	0.00	

Pathfinder Energy Services
Pathfinder X & Y Survey Report



Company:	OGX Resources	Local Co-ordinate Reference:	Well Challenger 1 State #1
Project:	Eddy County	TVD Reference:	WELL @ 0.00ft (Original Well Elev)
Site:	S1 T25S R29E	MD Reference:	WELL @ 0.00ft (Original Well Elev)
Well:	Challenger 1 State #1	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	EDM 2003.16 Single User 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)
11,100.00	90.00	360.00	7,550.00	7,550.00	3,743.14	0.00	3,743.14	0.00	3,743.14	0.00
11,200.00	90.00	360.00	7,550.00	7,550.00	3,843.14	0.00	3,843.14	0.00	3,843.14	0.00
11,300.00	90.00	360.00	7,550.00	7,550.00	3,943.14	0.00	3,943.14	0.00	3,943.14	0.00
11,400.00	90.00	360.00	7,550.00	7,550.00	4,043.14	0.00	4,043.14	0.00	4,043.14	0.00
11,500.00	90.00	360.00	7,550.00	7,550.00	4,143.14	0.00	4,143.14	0.00	4,143.14	0.00
11,600.00	90.00	360.00	7,550.00	7,550.00	4,243.14	0.00	4,243.14	0.00	4,243.14	0.00
11,626.86	90.00	360.00	7,550.00	7,550.00	4,270.00	0.00	4,270.00	0.00	4,270.00	0.00

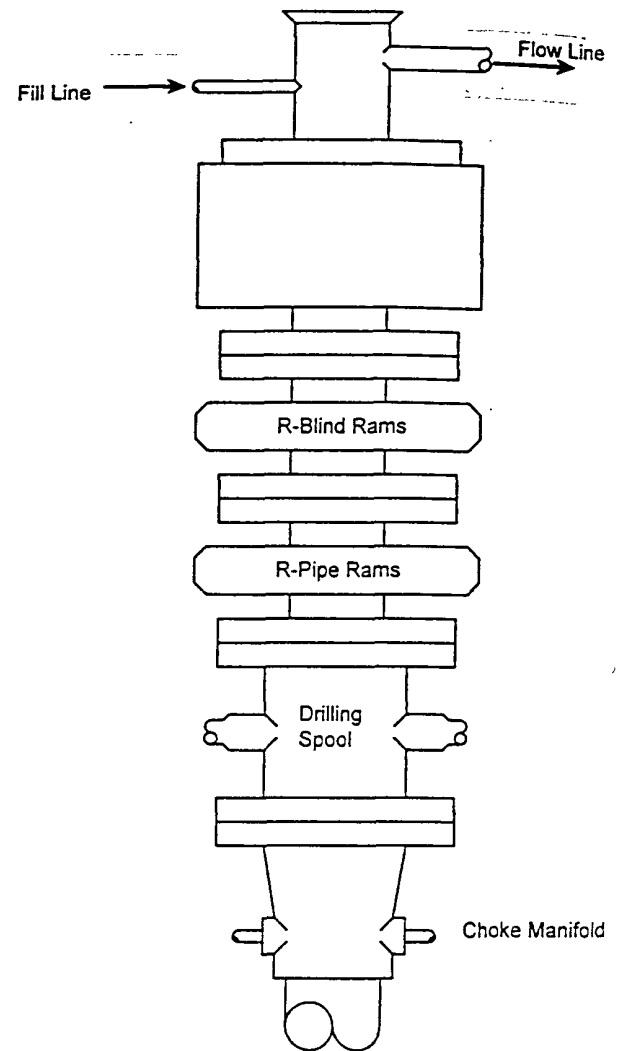
Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
KOP - plan hits target - Point	0.00	360.00	7,100.00	0.00	0.00	0.000	0.000	30° 59' 18.404 N	106° 3' 38.987 W
PBHL OH - plan misses by 4291.47ft at 7150.00ft MD (7149.90 TVD, 2.77 N, 0.00 E) - Point	0.00	360.00	7,550.00	-4,270.00	0.00	-4,270.000	0.000	30° 58' 36.159 N	106° 3' 38.226 W

Checked By: _____ Approved By: _____ Date: _____

BLOWOUT PREVENTER SYSTEM

5000 PSI



Type 1500 SERIES
5000 psi WP

Choke Manifold Assembly for 5M WP System

