

AUG - 5 2009

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 & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-37206	Pool Code 60660	Pool Name TURKEY TRACK; Bone Spring
Property Code 33352	Property Name PARKWAY 23 STATE COM	Well Number 2H
OGRID No. 7377	Operator Name EOG RESOURCES, INC.	Elevation 3310.5'

Surface Location

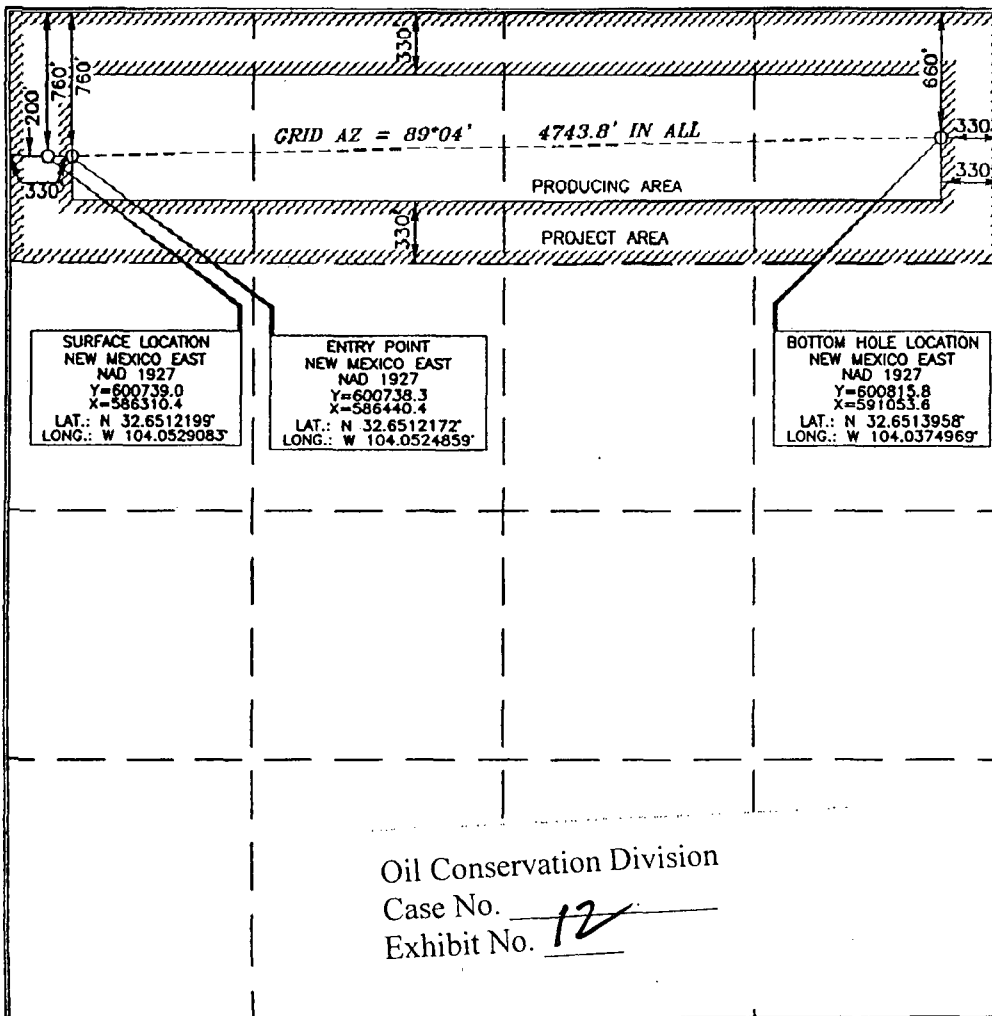
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	23	19 SOUTH	29 EAST, N.M.P.M.		760	NORTH	200	WEST	EDDY

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
A	23	19 SOUTH	29 EAST, N.M.P.M.		660	NORTH	330	EAST	EDDY

Dedicated Acres 160	Joint or Infill	Consolidation Code	Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location 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.

Donny G. Glanton 7/28/09
Signature Date

Donny G. Glanton
Printed Name

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes and actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

15079
JUNE 26, 2009
Date of Survey
Signature of Professional Surveyor
Professional Seal of Surveyor
Terry A. Arul 7/2/2009
Certificate Number 15079

WO# 090625WL-a (KA)

Permit Information:

Well Name: Parkway 23 State Com #2H

Location:

SL 760' FNL & 200' FWL, Section 23, T-19-S, R-29-E, Eddy Co., N.M.

BHL 660' FNL & 330' FEL, Section 23, T-18-S, R-30-E, Eddy Co., N.M.

Casing Program:

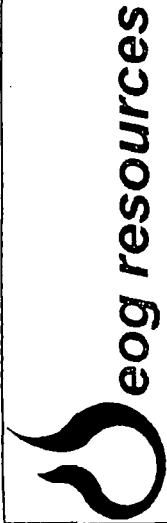
Casing	Setting Depth	Hole Size	Casing Size	Casing Weight	Casing Grade	Desired TOC
Surface	360'	14-3/4"	11-3/4"	42#	H-40	Surface
Intermediate	3,300'	11"	8-5/8"	32#	J-55	Surface
Production	12,499'	7-7/8"	5 1/2"	17#	N-80	2800'

Cement Program:

Depth	No. Sacks	Slurries:
360'	500	Premium Plus C + 0.005 pps Static Free + 2% CaCl ₂ + 0.25 pps CelloFlake + 0.005 gps FP-6L
3,300'	650	Lead: Class C + 2% SMS + 1.0% R-3 + 0.25 pps CelloFlake + 0.005 pps Static Free
	200	Tail: Premium Plus C + 0.25 pps CelloFlake + 0.005 pps Static Free
12,499'	750	Lead: 50:50:10 Poz:C:Gel+ 0.005 pps Static Free + 0.25 pps CelloFlake + 0.005 gps FP-6L + 0.80% FL-52A + 0.30% ASA-301 + 0.15% SMS
	1000	Tail: 50:50:2 Poz: H: Gel + 0.005 pps Static Free + 5% NaCl + 0.2% CD-32 + 0.65% FL-52A

Mud Program:

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 - 360'	Fresh - Gel	8.6-8.8	28-34	N/c
360' - 3,300'	Brine	10.0-10.2	28-34	N/c
3,300' - 7,000'	Fresh Water	8.4 - 8.6	28-34	N/c
7,000' - 7,500'	Cut Brine	8.8-9.6	28-34	N/c
7,500' - 8,400'	Cut Brine	8.8-9.6	28-34	10-15
KOP - 12,499'	Cut Brine/ Polymer (Lateral)	8.8-9.6	40-45	10-25



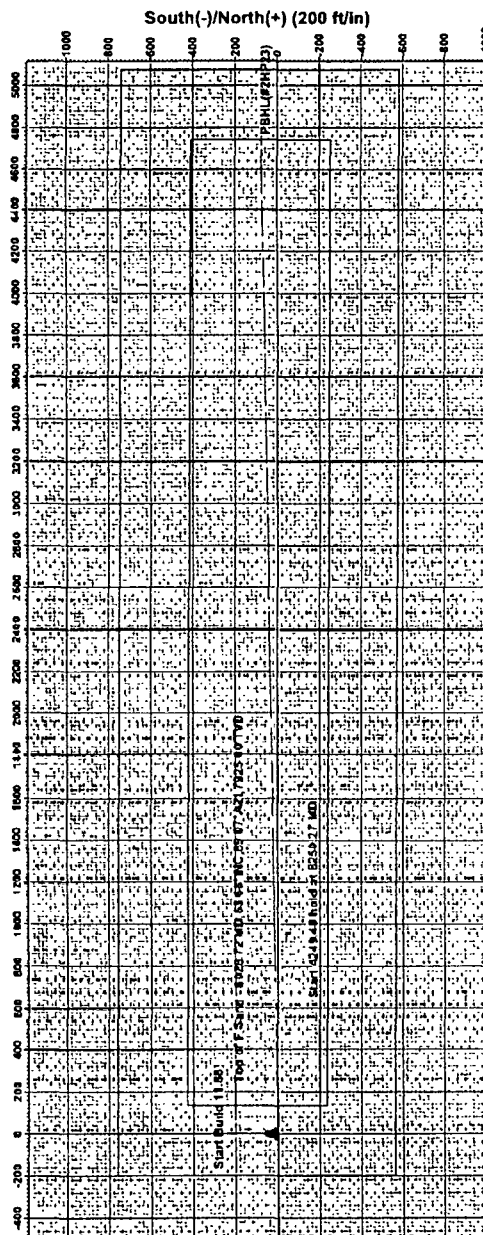
PATHFINDER

Azimuths to Grid North
True North: -0.15°
Magnetic North: 7.90°
Magnetic Field
Strength: 49037.0 nT
Dip Angle: 90.56°
Date: 07/28/2009
Model: IGRF2005.10



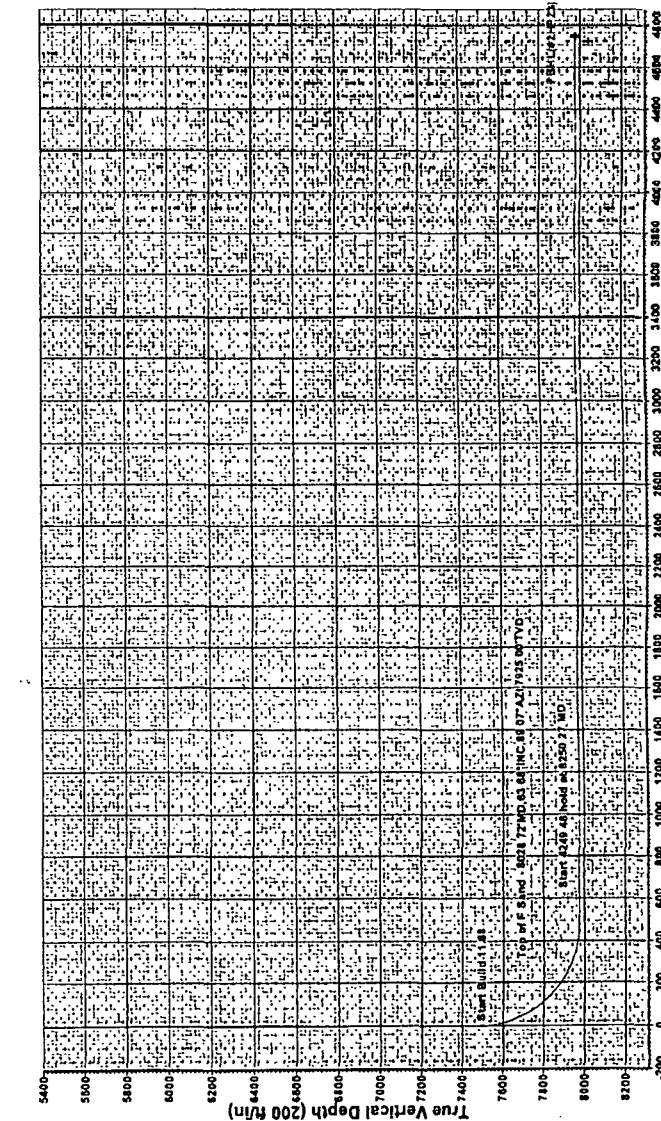
Project: Eddy County
Site: Parkway 23 State Com
Well: #2H
Wellbore: OH
Plan: Plan #1 (#2H/OH)

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



SECTION DETAILS									
Sec	MD	Inc	Asn	TYD	+N/-S	+E/-W	DLog	TFace	VSec Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	7495.75	90.00	89.07	7495.75	7.83	482.19	11.88	89.07	482.25
3	8255.25	90.00	89.07	7575.00	7.83	482.19	11.88	89.07	482.25
4	12438.75	90.00	89.07	7575.00	76.86	4731.11	0.00	0.00	4731.73

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)				
Name	TYD	+N/-S	+E/-W	Northings Eastings Shape
PBHL(22HP23)	76.80	4743.20	60815.800	591053.600 Point



WELL DETAILS 42H				
Ground Elevation	3310.50			
RIGS Elevation	WELL @ 3329.50ft (15' KB Correction)			
RIG Name	15' KB Correction			
Northings	600759.006	Eastings	594516.405	Latitude
+N/-S	0.00	+E/-W	8.00	Longitude
			32° 39' 4.382 N	104° 3' 19.470 W
				Site

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 (22HP23)
Created By: Nae Sengchan
Checked: _____
Date: 18 Jul 2009



EOG Resources, Inc.

Eddy County
Parkway 23 State Com
#2H
OH

Plan: Plan #1

Pathfinder X & Y Planning Report

28 July, 2009

PATHFINDER



Pathfinder Energy Services
Pathfinder X & Y Planning Report



Company: EOG Resources, Inc. Project: Eddy County Site: Parkway 23 State Com Well: #2H Wellbore: OH Design: Plan #1		Local Co-ordinate Reference: TVD Reference: WELL @ 3329 50R (19' KB Correction) MD Reference: WELL @ 3329 50R (19' KB Correction) North Reference: Grid Survey Calculation Method: Minimum Curvature Database: Midland Database	
Project: Eddy County		System Datum: Mean Sea Level	
Map System: US State Plane 1927 (Exact solution) Geo Datum: NAD 1927 (NADCON CONUS) Map Zone: New Mexico East 3001			
Site: Parkway 23 State Com			
Site Position: From: Map Position Uncertainty: 0.00 ft	Northing: 600,739,000 ft Easting: 586,310,400 ft Slot Radius:	Latitude: 32° 39' 4.392 N Longitude: 104° 3' 10.470 W Grid Convergence: 0.15°	
Well: #2H			
Well Position +N/-S 0.00 ft +E/-W 0.00 ft Position Uncertainty 0.00 ft	Northing: 600,739,000 ft Easting: 586,310,400 ft Wellhead Elevation:	Latitude: 32° 39' 4.392 N Longitude: 104° 3' 10.470 W Ground Level: 3,310.50 ft	
Wellbore: OH			
Magnetics	Model Name: Sample Date: 07/28/2009	Dip Angle: 60.56 Field Strength: 49,037	
Design: Plan #1			
Audit Notes:			
Version:			
Vertical Section:	Depth From (TVD) 0.00 Direction 0.00	Tie On Depth: 0.00 Direction 89.07	
Survey Tool/Program: Date 07/28/2009			
From (ft)	To (ft)	Survey (Wellbore)	Description
0.00	12,499.64	Plan #1 (OH)	MWD - Standard



Pathfinder Energy Services
Pathfinder X & Y Planning Report



Company: EOG Resources, Inc. Project: Eddy County Site: Parkway 23 State Com Well: #2H Wellbore: OH Design: Plan #1				Well #2H WELL @ 3329.50ft (19' KB Correction) WELL @ 3329.50ft (19' KB Correction) Gnd Minimum Curvature Midland Database									
Planned Survey				Local Coordinate Reference									
MD (ft)	Inc (ft)	Azi (°)	TVD (ft)	TVDSS (ft)	NIS (ft)	EW (ft)	V-Vec (ft)	DLeg (ft/100ft)	Northings (ft)	Easting (ft)			
0.00	0.00	0.00	0.00	-3,329.50	0.00	0.00	0.00	0.00	600,739.00	586,310.40			
100.00	0.00	0.00	100.00	-3,229.50	0.00	0.00	0.00	0.00	600,739.00	586,310.40			
200.00	0.00	0.00	200.00	-3,129.50	0.00	0.00	0.00	0.00	600,739.00	586,310.40			
300.00	0.00	0.00	300.00	-3,029.50	0.00	0.00	0.00	0.00	600,739.00	586,310.40			
400.00	0.00	0.00	400.00	-2,929.50	0.00	0.00	0.00	0.00	600,739.00	586,310.40			
500.00	0.00	0.00	500.00	-2,829.50	0.00	0.00	0.00	0.00	600,739.00	586,310.40			
600.00	0.00	0.00	600.00	-2,729.50	0.00	0.00	0.00	0.00	600,739.00	586,310.40			
700.00	0.00	0.00	700.00	-2,629.50	0.00	0.00	0.00	0.00	600,739.00	586,310.40			
800.00	0.00	0.00	800.00	-2,529.50	0.00	0.00	0.00	0.00	600,739.00	586,310.40			
900.00	0.00	0.00	900.00	-2,429.50	0.00	0.00	0.00	0.00	600,739.00	586,310.40			
1,000.00	0.00	0.00	1,000.00	-2,329.50	0.00	0.00	0.00	0.00	600,739.00	586,310.40			
1,100.00	0.00	0.00	1,100.00	-2,229.50	0.00	0.00	0.00	0.00	600,739.00	586,310.40			
1,200.00	0.00	0.00	1,200.00	-2,129.50	0.00	0.00	0.00	0.00	600,739.00	586,310.40			
1,300.00	0.00	0.00	1,300.00	-2,029.50	0.00	0.00	0.00	0.00	600,739.00	586,310.40			
1,400.00	0.00	0.00	1,400.00	-1,929.50	0.00	0.00	0.00	0.00	600,739.00	586,310.40			
1,500.00	0.00	0.00	1,500.00	-1,829.50	0.00	0.00	0.00	0.00	600,739.00	586,310.40			
1,600.00	0.00	0.00	1,600.00	-1,729.50	0.00	0.00	0.00	0.00	600,739.00	586,310.40			
1,700.00	0.00	0.00	1,700.00	-1,629.50	0.00	0.00	0.00	0.00	600,739.00	586,310.40			
1,800.00	0.00	0.00	1,800.00	-1,529.50	0.00	0.00	0.00	0.00	600,739.00	586,310.40			
1,900.00	0.00	0.00	1,900.00	-1,429.50	0.00	0.00	0.00	0.00	600,739.00	586,310.40			
2,000.00	0.00	0.00	2,000.00	-1,329.50	0.00	0.00	0.00	0.00	600,739.00	586,310.40			
2,100.00	0.00	0.00	2,100.00	-1,229.50	0.00	0.00	0.00	0.00	600,739.00	586,310.40			
2,200.00	0.00	0.00	2,200.00	-1,129.50	0.00	0.00	0.00	0.00	600,739.00	586,310.40			
2,300.00	0.00	0.00	2,300.00	-1,029.50	0.00	0.00	0.00	0.00	600,739.00	586,310.40			
2,400.00	0.00	0.00	2,400.00	-929.50	0.00	0.00	0.00	0.00	600,739.00	586,310.40			
2,500.00	0.00	0.00	2,500.00	-829.50	0.00	0.00	0.00	0.00	600,739.00	586,310.40			
2,600.00	0.00	0.00	2,600.00	-729.50	0.00	0.00	0.00	0.00	600,739.00	586,310.40			



Pathfinder Energy Services
Pathfinder X & Y Planning Report



Company: EOG Resources, Inc Project: Eddy County Site: Parkway 23 State Com Well: #2H Wellbore: OH Design: Plan #1				Local Coordinate Reference TVD Reference MD Reference North Reference Survey Calculation Method: Database				Well #2H WELL @ 3329 50R (19' KB Correction) WELL @ 3329 50R (19' KB Correction) Grid Minimum Curvature Midland Database		
MDI (ft)	Inc (ft)	AEI (ft)	TVD (ft)	TVDSS (ft)	INS (ft)	E/W (ft)	V-Sc (ft)	D Leg (ft/100ft)	Northing (ft)	Easting (ft)
2,700.00	0.00	0.00	2,700.00	-629.50	0.00	0.00	0.00	0.00	600,739.00	586,310.40
2,800.00	0.00	0.00	2,800.00	-529.50	0.00	0.00	0.00	0.00	600,739.00	586,310.40
2,900.00	0.00	0.00	2,900.00	-429.50	0.00	0.00	0.00	0.00	600,739.00	586,310.40
3,000.00	0.00	0.00	3,000.00	-329.50	0.00	0.00	0.00	0.00	600,739.00	586,310.40
3,100.00	0.00	0.00	3,100.00	-229.50	0.00	0.00	0.00	0.00	600,739.00	586,310.40
3,200.00	0.00	0.00	3,200.00	-129.50	0.00	0.00	0.00	0.00	600,739.00	586,310.40
3,300.00	0.00	0.00	3,300.00	-29.50	0.00	0.00	0.00	0.00	600,739.00	586,310.40
3,400.00	0.00	0.00	3,400.00	70.50	0.00	0.00	0.00	0.00	600,739.00	586,310.40
3,500.00	0.00	0.00	3,500.00	170.50	0.00	0.00	0.00	0.00	600,739.00	586,310.40
3,600.00	0.00	0.00	3,600.00	270.50	0.00	0.00	0.00	0.00	600,739.00	586,310.40
3,700.00	0.00	0.00	3,700.00	370.50	0.00	0.00	0.00	0.00	600,739.00	586,310.40
3,800.00	0.00	0.00	3,800.00	470.50	0.00	0.00	0.00	0.00	600,739.00	586,310.40
3,900.00	0.00	0.00	3,900.00	570.50	0.00	0.00	0.00	0.00	600,739.00	586,310.40
4,000.00	0.00	0.00	4,000.00	670.50	0.00	0.00	0.00	0.00	600,739.00	586,310.40
4,100.00	0.00	0.00	4,100.00	770.50	0.00	0.00	0.00	0.00	600,739.00	586,310.40
4,200.00	0.00	0.00	4,200.00	870.50	0.00	0.00	0.00	0.00	600,739.00	586,310.40
4,300.00	0.00	0.00	4,300.00	970.50	0.00	0.00	0.00	0.00	600,739.00	586,310.40
4,400.00	0.00	0.00	4,400.00	1,070.50	0.00	0.00	0.00	0.00	600,739.00	586,310.40
4,500.00	0.00	0.00	4,500.00	1,170.50	0.00	0.00	0.00	0.00	600,739.00	586,310.40
4,600.00	0.00	0.00	4,600.00	1,270.50	0.00	0.00	0.00	0.00	600,739.00	586,310.40
4,700.00	0.00	0.00	4,700.00	1,370.50	0.00	0.00	0.00	0.00	600,739.00	586,310.40
4,800.00	0.00	0.00	4,800.00	1,470.50	0.00	0.00	0.00	0.00	600,739.00	586,310.40
4,900.00	0.00	0.00	4,900.00	1,570.50	0.00	0.00	0.00	0.00	600,739.00	586,310.40
5,000.00	0.00	0.00	5,000.00	1,670.50	0.00	0.00	0.00	0.00	600,739.00	586,310.40
5,100.00	0.00	0.00	5,100.00	1,770.50	0.00	0.00	0.00	0.00	600,739.00	586,310.40
5,200.00	0.00	0.00	5,200.00	1,870.50	0.00	0.00	0.00	0.00	600,739.00	586,310.40
5,300.00	0.00	0.00	5,300.00	1,970.50	0.00	0.00	0.00	0.00	600,739.00	586,310.40

Company: EOG Resources, Inc Project: Eddy County Site: Parkway 23 State Com Well: #2H Wellbore: OH Design: Plan #1				Local Co-ordinate Reference TVD Reference MD Reference North Reference Survey Calculation Method Database							Well #2H WELL @ 3329.50R (19' KB Correction) WELL @ 3329.50R (19' KB Correction) Grd Minimum Curvature Midland Database	
MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	NS (ft)	EW (ft)	V-sec (ft)	DLeg (ft/100ft)	Northing (ft)	Easting (ft)		
5,400.00	0.00	0.00	5,400.00	2,070.50	0.00	0.00	0.00	0.00	600,739.00	586,310.40		
5,500.00	0.00	0.00	5,500.00	2,170.50	0.00	0.00	0.00	0.00	600,739.00	586,310.40		
5,600.00	0.00	0.00	5,600.00	2,270.50	0.00	0.00	0.00	0.00	600,739.00	586,310.40		
5,700.00	0.00	0.00	5,700.00	2,370.50	0.00	0.00	0.00	0.00	600,739.00	586,310.40		
5,800.00	0.00	0.00	5,800.00	2,470.50	0.00	0.00	0.00	0.00	600,739.00	586,310.40		
5,900.00	0.00	0.00	5,900.00	2,570.50	0.00	0.00	0.00	0.00	600,739.00	586,310.40		
6,000.00	0.00	0.00	6,000.00	2,670.50	0.00	0.00	0.00	0.00	600,739.00	586,310.40		
6,100.00	0.00	0.00	6,100.00	2,770.50	0.00	0.00	0.00	0.00	600,739.00	586,310.40		
6,200.00	0.00	0.00	6,200.00	2,870.50	0.00	0.00	0.00	0.00	600,739.00	586,310.40		
6,300.00	0.00	0.00	6,300.00	2,970.50	0.00	0.00	0.00	0.00	600,739.00	586,310.40		
6,400.00	0.00	0.00	6,400.00	3,070.50	0.00	0.00	0.00	0.00	600,739.00	586,310.40		
6,500.00	0.00	0.00	6,500.00	3,170.50	0.00	0.00	0.00	0.00	600,739.00	586,310.40		
6,600.00	0.00	0.00	6,600.00	3,270.50	0.00	0.00	0.00	0.00	600,739.00	586,310.40		
6,700.00	0.00	0.00	6,700.00	3,370.50	0.00	0.00	0.00	0.00	600,739.00	586,310.40		
6,800.00	0.00	0.00	6,800.00	3,470.50	0.00	0.00	0.00	0.00	600,739.00	586,310.40		
6,900.00	0.00	0.00	6,900.00	3,570.50	0.00	0.00	0.00	0.00	600,739.00	586,310.40		
7,000.00	0.00	0.00	7,000.00	3,670.50	0.00	0.00	0.00	0.00	600,739.00	586,310.40		
7,100.00	0.00	0.00	7,100.00	3,770.50	0.00	0.00	0.00	0.00	600,739.00	586,310.40		
7,200.00	0.00	0.00	7,200.00	3,870.50	0.00	0.00	0.00	0.00	600,739.00	586,310.40		
7,300.00	0.00	0.00	7,300.00	3,970.50	0.00	0.00	0.00	0.00	600,739.00	586,310.40		
7,400.00	0.00	0.00	7,400.00	4,070.50	0.00	0.00	0.00	0.00	600,739.00	586,310.40		
7,492.75	0.00	0.00	7,492.75	4,163.25	0.00	0.00	0.00	0.00	600,739.00	586,310.40		
Start Build 11.88												
7,500.00	0.86	89.07	7,500.00	4,170.50	0.00	0.05	0.05	0.05	11.88	600,739.00		
7,525.00	3.83	89.07	7,524.98	4,195.48	0.02	1.08	1.08	1.08	11.88	600,739.02		
7,550.00	6.80	89.07	7,549.87	4,220.37	0.06	3.39	3.39	3.39	11.88	600,739.06		
7,575.00	9.77	89.07	7,574.60	4,245.10	0.11	7.00	7.00	7.00	11.88	600,739.11		

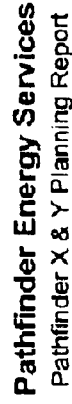
Company: EOG Resources, Inc. Project: Eddy County Site: Parkway 23 State Com Well: #2H Wellbore: OH Design: Plan #1				Local Co-ordinate Reference TVD Reference: MD Reference: North Reference: Survey Calculation Method: Database:				Well #2H WELL @ 3329.50ft (19' KB Correction) WELL @ 3329.50ft (19' KB Correction) Grid Minimum Curvature Midland Database					
Planned Survey				Inc (°)	AZI (°)	TVD (ft)	TVDSS (ft)	NIS (ft)	EW (ft)	V-sec (ft)	Depth (ft)	Northings (ft)	Eastings (ft)
7,600.00	12.74	89.07	7,599.12	4,269.62	0.19	11.88	11.88	11.88	600,739.19	586,322.28	11.88	600,739.19	586,322.28
7,625.00	15.71	89.07	7,623.35	4,293.85	0.29	18.02	18.02	18.02	600,739.29	586,328.42	11.88	600,739.29	586,328.42
7,650.00	18.68	89.07	7,647.23	4,317.73	0.41	25.41	25.41	25.41	600,739.41	586,335.81	11.88	600,739.41	586,335.81
7,675.00	21.65	89.07	7,670.69	4,341.19	0.55	34.03	34.03	34.03	600,739.55	586,344.43	11.88	600,739.55	586,344.43
7,700.00	24.62	89.07	7,693.68	4,364.18	0.71	43.85	43.85	43.85	600,739.71	586,354.25	11.88	600,739.71	586,354.25
7,725.00	27.59	89.07	7,716.13	4,386.63	0.89	54.85	54.85	54.85	600,739.89	586,365.25	11.88	600,739.89	586,365.25
7,750.00	30.56	89.07	7,737.97	4,408.47	1.09	66.99	66.99	67.00	600,740.09	586,377.39	11.88	600,740.09	586,377.39
7,775.00	33.53	89.07	7,759.16	4,429.66	1.30	80.26	80.26	80.27	600,740.30	586,390.66	11.88	600,740.30	586,390.66
7,800.00	36.50	89.07	7,779.63	4,450.13	1.54	94.60	94.60	94.61	600,740.54	586,405.00	11.88	600,740.54	586,405.00
7,825.00	39.47	89.07	7,799.33	4,469.83	1.79	109.98	109.98	110.00	600,740.79	586,420.38	11.88	600,740.79	586,420.38
7,850.00	42.44	89.07	7,818.21	4,488.71	2.05	126.37	126.37	126.38	600,741.05	586,436.77	11.88	600,741.05	586,436.77
7,875.00	45.41	89.07	7,836.21	4,506.71	2.33	143.71	143.71	143.73	600,741.33	586,454.11	11.88	600,741.33	586,454.11
7,900.00	48.39	89.07	7,853.29	4,523.79	2.63	161.96	161.96	161.98	600,741.63	586,472.36	11.88	600,741.63	586,472.36
7,925.00	51.36	89.07	7,869.40	4,539.90	2.94	181.07	181.07	181.09	600,741.94	586,491.47	11.88	600,741.94	586,491.47
7,950.00	54.33	89.07	7,884.50	4,555.00	3.26	200.99	200.99	201.01	600,742.26	586,511.39	11.88	600,742.26	586,511.39
7,975.00	57.30	89.07	7,898.55	4,569.05	3.60	221.66	221.66	221.69	600,742.60	586,532.06	11.88	600,742.60	586,532.06
8,000.00	60.27	89.07	7,911.51	4,582.01	3.95	243.03	243.03	243.07	600,742.95	586,553.43	11.88	600,742.95	586,553.43
8,025.00	63.24	89.07	7,923.34	4,593.84	4.30	265.05	265.05	265.09	600,743.30	586,575.45	11.88	600,743.30	586,575.45
8,028.72	63.68	89.07	7,925.00	4,595.50	4.36	268.38	268.38	268.42	600,743.36	586,578.78	11.88	600,743.36	586,578.78
Top of F Sand - 8028.72' MD, 63.68' INC, 89.07' AZI, 7925.00' TVD													
8,050.00	66.21	89.07	7,934.01	4,604.51	4.67	287.65	287.65	287.69	600,743.67	586,598.05	11.88	600,743.67	586,598.05
8,075.00	69.18	89.07	7,943.50	4,614.00	5.04	310.78	310.78	310.82	600,744.04	586,621.18	11.88	600,744.04	586,621.18
8,100.00	72.15	89.07	7,951.78	4,622.28	5.43	334.36	334.36	334.40	600,744.43	586,644.76	11.88	600,744.43	586,644.76
8,125.00	75.12	89.07	7,958.82	4,629.32	5.82	358.34	358.34	358.39	600,744.82	586,668.74	11.88	600,744.82	586,668.74
8,150.00	78.09	89.07	7,964.61	4,635.11	6.21	382.65	382.65	382.70	600,745.21	586,693.05	11.88	600,745.21	586,693.05
8,175.00	81.06	89.07	7,969.14	4,639.64	6.61	407.24	407.24	407.29	600,745.61	586,717.64	11.88	600,745.61	586,717.64
8,200.00	84.03	89.07	7,972.38	4,642.88	7.01	432.02	432.02	432.07	600,746.01	586,742.42	11.88	600,746.01	586,742.42



Pathfinder Energy Services
Pathfinder X & Y Planning Report

PATHFINDER

Company: EOG Resources, Inc		Well #2H WELL @ 3329.50R (19' KB Correction)								
Project: Eddy County		WELL @ 3329.50R (19' KB Correction)								
Site: Parkway 23 State Corn		Grid								
Well: #2H		Minimum Curvature								
Wellbore: OH		Midland Database								
Design: Plan #1										
Planned Survey										
MD (ft)	Inc (°)	AZI (°)	TVD (ft)	IVDSS (ft)	NIS (ft)	EW (ft)	V-Sac (ft)	Dleg (ft/100ft)	Northing (ft)	Easting (ft)
8,225.00	87.00	89.07	7,974.34	4,644.84	7.42	456.93	457.00	11.88	600,746.42	586,767.33
8,250.27	90.00	89.07	7,975.00	4,645.50	7.83	482.19	482.25	11.88	600,746.83	586,792.59
Start 4249.48 hold at 8250.27 MD										
8,300.00	90.00	89.07	7,975.00	4,645.50	8.63	531.91	531.98	0.00	600,747.63	586,842.31
8,400.00	90.00	89.07	7,975.00	4,645.50	10.26	631.90	631.98	0.00	600,749.26	586,942.30
8,500.00	90.00	89.07	7,975.00	4,645.50	11.88	731.89	731.98	0.00	600,750.88	587,042.29
8,600.00	90.00	89.07	7,975.00	4,645.50	13.50	831.87	831.98	0.00	600,752.50	587,142.27
8,700.00	90.00	89.07	7,975.00	4,645.50	15.13	931.86	931.98	0.00	600,754.13	587,242.26
8,800.00	90.00	89.07	7,975.00	4,645.50	16.75	1,031.85	1,031.98	0.00	600,755.75	587,342.25
8,900.00	90.00	89.07	7,975.00	4,645.50	18.37	1,131.83	1,131.98	0.00	600,757.37	587,442.23
9,000.00	90.00	89.07	7,975.00	4,645.50	20.00	1,231.82	1,231.98	0.00	600,759.00	587,542.22
9,100.00	90.00	89.07	7,975.00	4,645.50	21.62	1,331.81	1,331.98	0.00	600,760.62	587,642.21
9,200.00	90.00	89.07	7,975.00	4,645.50	23.24	1,431.79	1,431.98	0.00	600,762.24	587,742.19
9,300.00	90.00	89.07	7,975.00	4,645.50	24.87	1,531.78	1,531.98	0.00	600,763.87	587,842.18
9,400.00	90.00	89.07	7,975.00	4,645.50	26.49	1,631.77	1,631.98	0.00	600,765.49	587,942.17
9,500.00	90.00	89.07	7,975.00	4,645.50	28.11	1,731.76	1,731.98	0.00	600,767.11	588,042.16
9,600.00	90.00	89.07	7,975.00	4,645.50	29.73	1,831.74	1,831.98	0.00	600,768.73	588,142.14
9,700.00	90.00	89.07	7,975.00	4,645.50	31.36	1,931.73	1,931.98	0.00	600,770.36	588,242.13
9,800.00	90.00	89.07	7,975.00	4,645.50	32.98	2,031.72	2,031.98	0.00	600,771.98	588,342.12
9,900.00	90.00	89.07	7,975.00	4,645.50	34.60	2,131.70	2,131.98	0.00	600,773.60	588,442.10
10,000.00	90.00	89.07	7,975.00	4,645.50	36.23	2,231.69	2,231.98	0.00	600,775.23	588,542.09
10,100.00	90.00	89.07	7,975.00	4,645.50	37.85	2,331.68	2,331.98	0.00	600,776.85	588,642.08
10,200.00	90.00	89.07	7,975.00	4,645.50	39.47	2,431.66	2,431.98	0.00	600,778.47	588,742.06
10,300.00	90.00	89.07	7,975.00	4,645.50	41.10	2,531.65	2,531.98	0.00	600,780.10	588,842.05
10,400.00	90.00	89.07	7,975.00	4,645.50	42.72	2,631.64	2,631.98	0.00	600,781.72	588,942.04
10,500.00	90.00	89.07	7,975.00	4,645.50	44.34	2,731.62	2,731.98	0.00	600,783.34	589,042.02
10,600.00	90.00	89.07	7,975.00	4,645.50	45.97	2,831.61	2,831.98	0.00	600,784.97	589,142.01



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Pathfinder Energy Services
Pathfinder X & Y Planning Report



Company: EOG Resources, Inc. Project: Eddy County Site: Parkway 23 State Com Well: #2H Wellbore: OH Design: Plan #1		Local Coordinate Reference: TVD Reference MD Reference North Reference Survey Calculation Method Database		Well #2H WELL @ 3329.50R (19' KB Correction) WELL @ 3329.50R (19' KB Correction) Grid Minimum Curvature Midland Database						
Targets	Target Name	Dip Angle	Dip Dir	TVD	NE/S	EW	Northing	Easting	Latitude	Longitude
	PBHL(#2HP23)	0.00	0.00	7,975.00	76.80	4,743.20	600,815.800	591,053.600	32° 39' 5.024 N	104° 2' 14.989 W
- plan misses by 12.09ft at 12499.75ft MD (7975.00 TVD, 76.80 N, 4731.11 E)										
- Point										
Plan Annotations										
Measured	Vertical	Local Coordinates								
Depth	Depth	N/S	EW	Comment						
(ft)	(ft)	(ft)	(ft)	(ft)						
7,492.75	7,492.75	0.00	0.00	Start Build 11.88						
8,028.72	7,925.00	4.36	268.38	Top of F Sand - 8028.72 MD, 63.68° INC, 89.07° AZI, 7925.00 TVD						
8,250.27	7,975.00	7.83	482.19	Start 4249.48 hold at 8250.27 MD						
12,499.75	7,975.00	76.80	4,731.11	TD at 12499.75						

Checked By: _____ Approved By: _____ Date: _____