

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 60640	Pool Name TURKEY TRACK; Bone Spring
Property Code 33352	Property Name PARKWAY 23 STATE COM	Well Number 2H
OGRI No. 7377	Operator Name EOG RESOURCES, INC.	Elevation 3310.5'

Surface Location

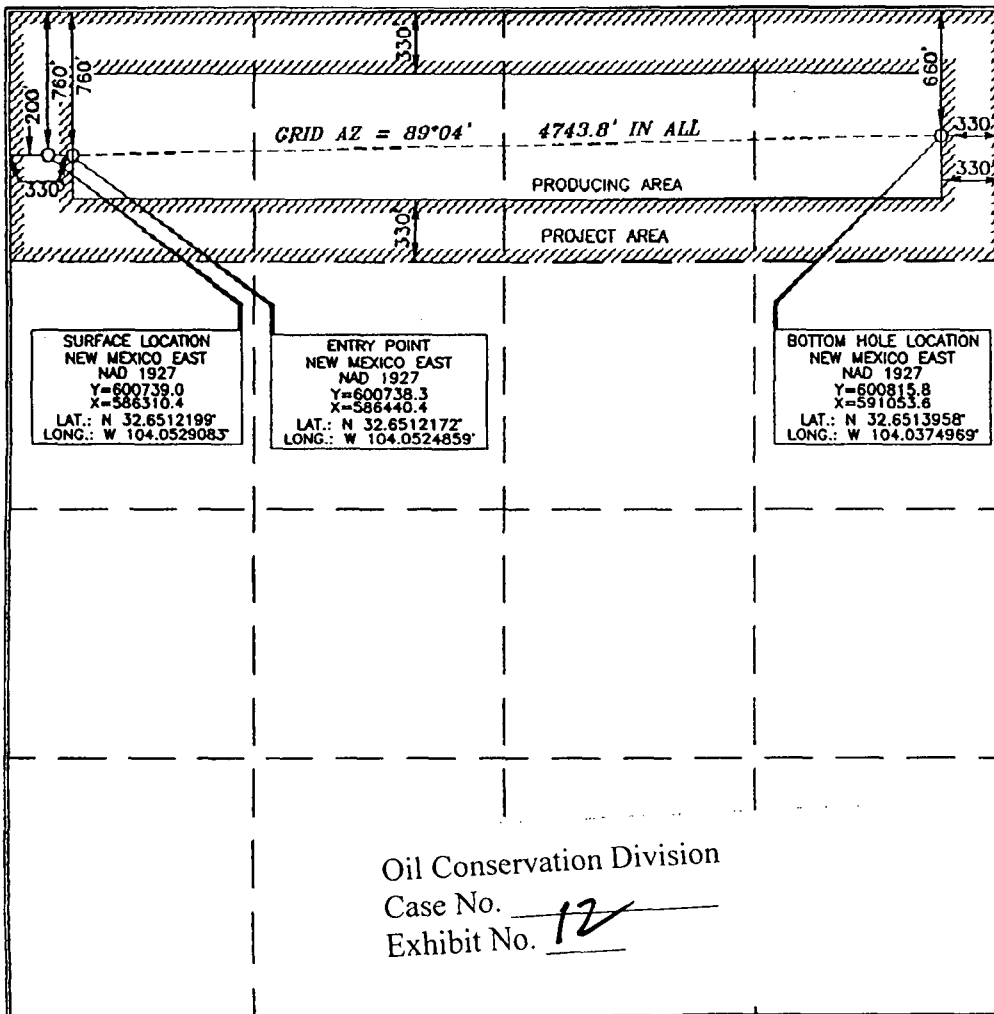
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	23	19 SOUTH	29 EAST, N.M.P.M.		760	NORTH	200	WEST	EDDY

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	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.



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 or 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 Land Surveyor

Terry J. Abel 7/2/2009
Certificate Number 15079

WO# 090625WL-a (KA)

Oil Conservation Division
Case No. 12
Exhibit No. 12

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:

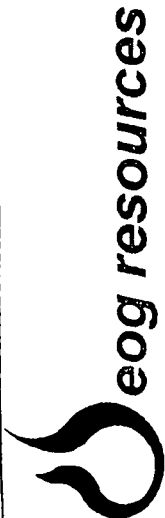
Casing	Setting Depth	Hole Size	Casing Size	Casing Weight	Casing Grade	Desired TOC
Surface	360'	14-3/4"	11-3/4"	42#	H-40	Surface
Intermediate	3,300'	11"	8-5/8"	32#	J-55	Surface
Production	12,499'	7-7/8"	5 1/2"	17#	N-80	2800'

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



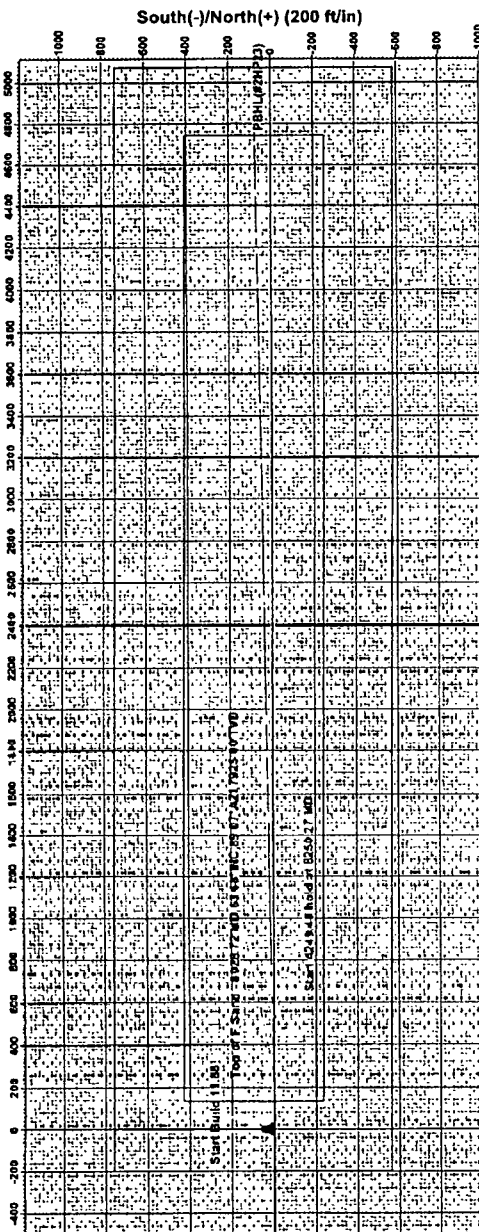
Project: Eddy County
 Site: Parkway 23 State Com
 Well: #2H
 Wellbore: OH
 Plan: Plan #1 (#2H/OH)



Azimuths to Grid North
 True North: -0.15°
 Magnetic North: 7.90°
 Magnetic Field
 Strength: 45037.0 nT
 Dip Angle: 80.58°
 Date: 07/28/2009
 Model: IGRF2005.10

PATHFINDER

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



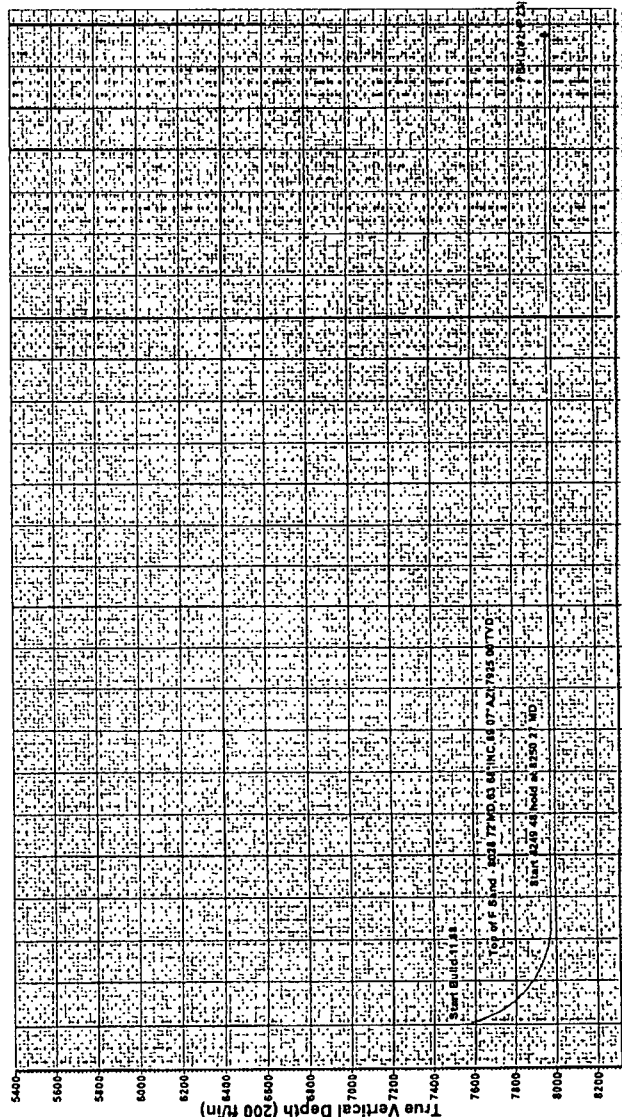
SECTION DETAILS									
Sec	MD	Inc	Azi	TVD	+N/S	+E/W	DLog	TFace	USec Target
1	7.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	7.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	8.55	2.75	89.07	7575.00	7.83	482.19	11.88	89.07	482.25
4	12.49	7.5	89.07	7575.00	76.86	4731.11	0.00	0.00	4731.73

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)					
Name	TV	+N/S	+E/W	Northing	Eastng
PBHL(#2H/P23)	76.80	4743.20	600815.00	591053.00	Point

WELL DETAILS 42H					
Ground Elevation	3310.50				
RKB Elevation	WELL @ 3329.50m (19' HB Correction)				
Rig Name	19' HB Correction				
+N/S	0.00	+E/W	6.00	Northng	600758.00
				Eastng	586316.40
				Latitude	32° 37' 4.382 N
				Longitude	104° 5' 19.470 W
				Site	

PROJECT DETAILS: Eddy County
 Geodetic System: US 83 (NAD 83)
 Datum: US 83 (NAD 83)
 Ellipsoid: Clarke 1866
 Zone: New Mexico East 3001
 System Datum: Mean Sea Level
 Local North: Grid

Created By: Mike Bingham Date: 18 Jul 2009
 Checked: _____
 Date: _____



Vertical Section at 89.07° (200 ft/in)



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 Coordinate 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

Project: Eddy County

Map System: US State Plane 1927 (Exact solution)
Geo Datum: NAD 1927 (NADCON CONUS)
Map Zone: New Mexico East 3001

System Datum: Mean Sea Level

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
Wellhead Elevation: ft
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: Declination: Dip Angle: Field Strength: (nT)
IGRF200510 07/28/2009 8.05 60.56 49.037

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 (ft) 0.00 0.00 0.00 89.07

Survey Tool/Program: Date: 07/28/2009

From (ft) To (ft) Survey (Wellbore) Tool Name: Description: MWD MWD - Standard
0.00 12,499.64 Plan #1 (OH)

Company: Project: Site: Well: Wellbore: Design:				EOG Resources, Inc. Eddy County Parkway 23 State Com #2H OH 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) Gnd Minimum Curvature Midland Database			
MD (ft)	Inc (ft)	Azi (ft)	TVD (ft)	TVSS (ft)	N/S (ft)	E/W (ft)	V.Sec (ft)	DLeg (ft/100ft)	Nothing (ft)	Nothing (ft)	Nothing (ft)	Nothing (ft)	Nothing (ft)	Nothing (ft)	Nothing (ft)
0.00	0.00	0.00	0.00	-3,329.50	0.00	0.00	0.00	0.00	0.00	600,739.00	600,739.00	586,310.40	586,310.40	586,310.40	586,310.40
100.00	0.00	0.00	100.00	-3,229.50	0.00	0.00	0.00	0.00	0.00	600,739.00	600,739.00	586,310.40	586,310.40	586,310.40	586,310.40
200.00	0.00	0.00	200.00	-3,129.50	0.00	0.00	0.00	0.00	0.00	600,739.00	600,739.00	586,310.40	586,310.40	586,310.40	586,310.40
300.00	0.00	0.00	300.00	-3,029.50	0.00	0.00	0.00	0.00	0.00	600,739.00	600,739.00	586,310.40	586,310.40	586,310.40	586,310.40
400.00	0.00	0.00	400.00	-2,929.50	0.00	0.00	0.00	0.00	0.00	600,739.00	600,739.00	586,310.40	586,310.40	586,310.40	586,310.40
500.00	0.00	0.00	500.00	-2,829.50	0.00	0.00	0.00	0.00	0.00	600,739.00	600,739.00	586,310.40	586,310.40	586,310.40	586,310.40
600.00	0.00	0.00	600.00	-2,729.50	0.00	0.00	0.00	0.00	0.00	600,739.00	600,739.00	586,310.40	586,310.40	586,310.40	586,310.40
700.00	0.00	0.00	700.00	-2,629.50	0.00	0.00	0.00	0.00	0.00	600,739.00	600,739.00	586,310.40	586,310.40	586,310.40	586,310.40
800.00	0.00	0.00	800.00	-2,529.50	0.00	0.00	0.00	0.00	0.00	600,739.00	600,739.00	586,310.40	586,310.40	586,310.40	586,310.40
900.00	0.00	0.00	900.00	-2,429.50	0.00	0.00	0.00	0.00	0.00	600,739.00	600,739.00	586,310.40	586,310.40	586,310.40	586,310.40
1,000.00	0.00	0.00	1,000.00	-2,329.50	0.00	0.00	0.00	0.00	0.00	600,739.00	600,739.00	586,310.40	586,310.40	586,310.40	586,310.40
1,100.00	0.00	0.00	1,100.00	-2,229.50	0.00	0.00	0.00	0.00	0.00	600,739.00	600,739.00	586,310.40	586,310.40	586,310.40	586,310.40
1,200.00	0.00	0.00	1,200.00	-2,129.50	0.00	0.00	0.00	0.00	0.00	600,739.00	600,739.00	586,310.40	586,310.40	586,310.40	586,310.40
1,300.00	0.00	0.00	1,300.00	-2,029.50	0.00	0.00	0.00	0.00	0.00	600,739.00	600,739.00	586,310.40	586,310.40	586,310.40	586,310.40
1,400.00	0.00	0.00	1,400.00	-1,929.50	0.00	0.00	0.00	0.00	0.00	600,739.00	600,739.00	586,310.40	586,310.40	586,310.40	586,310.40
1,500.00	0.00	0.00	1,500.00	-1,829.50	0.00	0.00	0.00	0.00	0.00	600,739.00	600,739.00	586,310.40	586,310.40	586,310.40	586,310.40
1,600.00	0.00	0.00	1,600.00	-1,729.50	0.00	0.00	0.00	0.00	0.00	600,739.00	600,739.00	586,310.40	586,310.40	586,310.40	586,310.40
1,700.00	0.00	0.00	1,700.00	-1,629.50	0.00	0.00	0.00	0.00	0.00	600,739.00	600,739.00	586,310.40	586,310.40	586,310.40	586,310.40
1,800.00	0.00	0.00	1,800.00	-1,529.50	0.00	0.00	0.00	0.00	0.00	600,739.00	600,739.00	586,310.40	586,310.40	586,310.40	586,310.40
1,900.00	0.00	0.00	1,900.00	-1,429.50	0.00	0.00	0.00	0.00	0.00	600,739.00	600,739.00	586,310.40	586,310.40	586,310.40	586,310.40
2,000.00	0.00	0.00	2,000.00	-1,329.50	0.00	0.00	0.00	0.00	0.00	600,739.00	600,739.00	586,310.40	586,310.40	586,310.40	586,310.40
2,100.00	0.00	0.00	2,100.00	-1,229.50	0.00	0.00	0.00	0.00	0.00	600,739.00	600,739.00	586,310.40	586,310.40	586,310.40	586,310.40
2,200.00	0.00	0.00	2,200.00	-1,129.50	0.00	0.00	0.00	0.00	0.00	600,739.00	600,739.00	586,310.40	586,310.40	586,310.40	586,310.40
2,300.00	0.00	0.00	2,300.00	-1,029.50	0.00	0.00	0.00	0.00	0.00	600,739.00	600,739.00	586,310.40	586,310.40	586,310.40	586,310.40
2,400.00	0.00	0.00	2,400.00	-929.50	0.00	0.00	0.00	0.00	0.00	600,739.00	600,739.00	586,310.40	586,310.40	586,310.40	586,310.40
2,500.00	0.00	0.00	2,500.00	-829.50	0.00	0.00	0.00	0.00	0.00	600,739.00	600,739.00	586,310.40	586,310.40	586,310.40	586,310.40
2,600.00	0.00	0.00	2,600.00	-729.50	0.00	0.00	0.00	0.00	0.00	600,739.00	600,739.00	586,310.40	586,310.40	586,310.40	586,310.40



Pathfinder Energy Services
Pathfinder X & Y Planning Report



Company		EOG Resources, Inc		Well #2H		Well @ 3329 50ft (19' KB Correction)		Well @ 3329 50ft (19' KB Correction)		Grid		Minimum Curvature		Midland Database	
Project		Eddy County		Parkway 23 State Com		#2H		OH		Plan #1					
Site															
Well															
Wellbore															
Design															
Planned Survey															
MD	Inc	AI	TVD	TVDSS	INS	FEW	V-SEC	DEG	North	East					
(ft)	(%)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)					
2,700.00	0.00	0.00	2,700.00	-629.50	0.00	0.00	0.00	0.00	0.00	500,739.00	586,310.40				
2,800.00	0.00	0.00	2,800.00	-529.50	0.00	0.00	0.00	0.00	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	0.00	600,739.00	586,310.40				



Pathfinder Energy Services
Pathfinder X & Y Planning Report



Company: EOG Resources, Inc		Local Co-ordinate Reference		Well #2H						
Project: Eddy County		TVD Reference		WELL @ 3329.50R (19' KB Correction)						
Site: Parkway 23 State Corn		MD Reference		WELL @ 3329.50R (19' 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 (ft)	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	11.88	600,739.00	586,310.45
7,525.00	3.83	89.07	7,524.98	4,195.48	0.02	1.08	1.08	11.88	600,739.02	586,311.48
7,550.00	6.80	89.07	7,549.87	4,220.37	0.06	3.39	3.39	11.88	600,739.06	586,313.79
7,575.00	9.77	89.07	7,574.60	4,245.10	0.11	7.00	7.00	11.88	600,739.11	586,317.40



Pathfinder Energy Services
Pathfinder X & Y Planning Report



Company		EOG Resources, Inc.		Local Co-ordinate Reference		Well #2H	
Project		Eddy County		TVD Reference		WELL @ 3329.50ft (19' KB Correction)	
Site		Parkway 23 State Com		MD Reference		WELL @ 3329.50ft (19' KB Correction)	
Well		#2H		North Reference		Grid	
Wellbore		OH		Survey Calculation Method		Minimum Curvature	
Design		Plan #1		Database		Midland Database	
Planned Survey		Inc		TVD		Elev	
		(ft)		(ft)		(ft)	
		AZI		N/S		V Sec	
		(ft)		(ft)		(ft)	
		Elev		N/S		V Sec	
		(ft)		(ft)		(ft)	
		Elev		N/S		V Sec	
		(ft)		(ft)		(ft)	
		Elev		N/S		V Sec	
		(ft)		(ft)		(ft)	
		Elev		N/S		V Sec	
		(ft)		(ft)		(ft)	
		Elev		N/S		V Sec	
		(ft)		(ft)		(ft)	
		Elev		N/S		V Sec	
		(ft)		(ft)		(ft)	
		Elev		N/S		V Sec	
		(ft)		(ft)		(ft)	
		Elev		N/S		V Sec	
		(ft)		(ft)		(ft)	
		Elev		N/S		V Sec	
		(ft)		(ft)		(ft)	
		Elev		N/S		V Sec	
		(ft)		(ft)		(ft)	
		Elev		N/S		V Sec	
		(ft)		(ft)		(ft)	
		Elev		N/S		V Sec	
		(ft)		(ft)		(ft)	
		Elev		N/S		V Sec	
		(ft)		(ft)		(ft)	
		Elev		N/S		V Sec	
		(ft)		(ft)		(ft)	
		Elev		N/S		V Sec	
		(ft)		(ft)		(ft)	
		Elev		N/S		V Sec	
		(ft)		(ft)		(ft)	
		Elev		N/S		V Sec	
		(ft)		(ft)		(ft)	
		Elev		N/S		V Sec	
		(ft)		(ft)		(ft)	
		Elev		N/S		V Sec	
		(ft)		(ft)		(ft)	
		Elev		N/S		V Sec	
		(ft)		(ft)		(ft)	
		Elev		N/S		V Sec	
		(ft)		(ft)		(ft)	
		Elev		N/S		V Sec	
		(ft)		(ft)		(ft)	
		Elev		N/S		V Sec	
		(ft)		(ft)		(ft)	
		Elev		N/S		V Sec	
		(ft)		(ft)		(ft)	
		Elev		N/S		V Sec	
		(ft)		(ft)		(ft)	
		Elev		N/S		V Sec	
		(ft)		(ft)		(ft)	
		Elev		N/S		V Sec	
		(ft)		(ft)		(ft)	
		Elev		N/S		V Sec	
		(ft)		(ft)		(ft)	
		Elev		N/S		V Sec	
		(ft)		(ft)		(ft)	
		Elev		N/S		V Sec	
		(ft)		(ft)		(ft)	
		Elev		N/S		V Sec	
		(ft)		(ft)		(ft)	
		Elev		N/S		V Sec	
		(ft)		(ft)		(ft)	
		Elev		N/S		V Sec	
		(ft)		(ft)		(ft)	
		Elev		N/S		V Sec	
		(ft)		(ft)		(ft)	
		Elev		N/S		V Sec	
		(ft)		(ft)		(ft)	
		Elev		N/S		V Sec	
		(ft)		(ft)		(ft)	
		Elev		N/S		V Sec	
		(ft)		(ft)		(ft)	
		Elev		N/S		V Sec	
		(ft)		(ft)		(ft)	
		Elev		N/S		V Sec	
		(ft)		(ft)		(ft)	
		Elev		N/S		V Sec	
		(ft)		(ft)		(ft)	
		Elev		N/S		V Sec	
		(ft)		(ft)		(ft)	
		Elev		N/S		V Sec	
		(ft)		(ft)		(ft)	
		Elev		N/S		V Sec	
		(ft)		(ft)		(ft)	
		Elev		N/S		V Sec	
		(ft)		(ft)		(ft)	
		Elev		N/S		V Sec	
		(ft)		(ft)		(ft)	
		Elev		N/S		V Sec	
		(ft)		(ft)		(ft)	
		Elev		N/S		V Sec	
		(ft)		(ft)		(ft)	
		Elev		N/S		V Sec	
		(ft)		(ft)		(ft)	
		Elev		N/S		V Sec	
		(ft)		(ft)		(ft)	
		Elev		N/S		V Sec	
		(ft)		(ft)		(ft)	
		Elev		N/S		V Sec	
		(ft)		(ft)		(ft)	
		Elev		N/S		V Sec	
		(ft)		(ft)		(ft)	
		Elev		N/S			



Pathfinder Energy Services
Pathfinder X & Y Planning Report

PATHFINDER

Company: EOG Resources, Inc			Well #2H							
Project: Eddy County			WELL @ 3329.50R (19' KB Correction)							
Site: Parkway 23 State Com			WELL @ 3329.50R (19' KB Correction)							
Well: #2H			Grid							
Wellbore: OH			Minimum Curvature							
Design: Plan #1			Midland Database							
Planned Survey										
MD (ft)	Inc (°)	Azi (°)	TVD (ft)	INDSS (ft)	NIS (ft)	IEW (ft)	VSec (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	500,746.42	586,767.33
8,250.27	90.00	89.07	7,975.00	4,645.50	7.83	482.19	482.25	11.88	500,746.83	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	500,747.63	586,842.31
8,400.00	90.00	89.07	7,975.00	4,645.50	10.26	631.90	631.98	0.00	500,749.26	586,942.30
8,500.00	90.00	89.07	7,975.00	4,645.50	11.88	731.89	731.98	0.00	500,750.88	587,042.29
8,600.00	90.00	89.07	7,975.00	4,645.50	13.50	831.87	831.98	0.00	500,752.50	587,142.27
8,700.00	90.00	89.07	7,975.00	4,645.50	15.13	931.86	931.98	0.00	500,754.13	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	500,755.75	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	500,757.37	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	500,759.00	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	500,760.62	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	500,762.24	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	500,763.87	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	500,765.49	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	500,767.11	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	500,768.73	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	500,770.36	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	500,771.98	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	500,773.60	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	500,775.23	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	500,776.85	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	500,778.47	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	500,780.10	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	500,781.72	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	500,783.34	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	500,784.97	589,142.01



Pathfinder Energy Services
Pathfinder X & Y Planning Report



Company: EOG Resources, Inc		Well #2H	
Project: Eddy County		WELL @ 3329.50ft (19' KB Correction)	
Site: Parkway 23 State Com		WELL @ 3329.50ft (19' KB Correction)	
Well: #2H		Grid	
Wellbore: OH		Minimum Curvature	
Design: Plan #1		Midland Database	
Planned Survey			
MD (ft)	Inc (ft)	AZI (ft)	
10,700.00	90.00	89.07	
10,800.00	90.00	89.07	
10,900.00	90.00	89.07	
11,000.00	90.00	89.07	
11,100.00	90.00	89.07	
11,200.00	90.00	89.07	
11,300.00	90.00	89.07	
11,400.00	90.00	89.07	
11,500.00	90.00	89.07	
11,600.00	90.00	89.07	
11,700.00	90.00	89.07	
11,800.00	90.00	89.07	
11,900.00	90.00	89.07	
12,000.00	90.00	89.07	
12,100.00	90.00	89.07	
12,200.00	90.00	89.07	
12,300.00	90.00	89.07	
12,400.00	90.00	89.07	
12,499.75	90.00	89.07	
TD at 12499.75			
TVD (ft)		N/S (ft)	
7,975.00		47.59	
7,975.00		49.21	
7,975.00		50.83	
7,975.00		52.46	
7,975.00		54.08	
7,975.00		55.70	
7,975.00		57.33	
7,975.00		58.95	
7,975.00		60.57	
7,975.00		62.20	
7,975.00		63.82	
7,975.00		65.44	
7,975.00		67.07	
7,975.00		68.69	
7,975.00		70.31	
7,975.00		71.93	
7,975.00		73.56	
7,975.00		75.18	
7,975.00		76.80	
7,975.00			
E/W (ft)		V/Sec (ft)	
2,931.60		2,931.98	
3,031.58		3,031.98	
3,131.57		3,131.98	
3,231.56		3,231.98	
3,331.54		3,331.98	
3,431.53		3,431.98	
3,531.52		3,531.98	
3,631.51		3,631.98	
3,731.49		3,731.98	
3,831.48		3,831.98	
3,931.47		3,931.98	
4,031.45		4,031.98	
4,131.44		4,131.98	
4,231.43		4,231.98	
4,331.41		4,331.98	
4,431.40		4,431.98	
4,531.39		4,531.98	
4,631.37		4,631.98	
4,731.11		4,731.73	
ID Leg (ft/100ft)		North (ft)	East (ft)
0.00		600,786.59	589,242.00
0.00		600,788.21	589,341.98
0.00		600,789.83	589,441.97
0.00		600,791.46	589,541.96
0.00		600,793.08	589,641.94
0.00		600,794.70	589,741.93
0.00		600,796.33	589,841.92
0.00		600,797.95	589,941.91
0.00		600,799.57	590,041.89
0.00		600,801.20	590,141.88
0.00		600,802.82	590,241.87
0.00		600,804.44	590,341.85
0.00		600,806.07	590,441.84
0.00		600,807.69	590,541.83
0.00		600,809.31	590,641.81
0.00		600,810.93	590,741.80
0.00		600,812.56	590,841.79
0.00		600,814.18	590,941.77
0.00		600,815.80	591,041.51



Pathfinder Energy Services
Pathfinder X & Y Planning Report



Company: EOG Resources, Inc.		Local Coordinates TVD Reference		Well #2H WELL @ 3329.50ft (19' KB Correction)	
Project: Eddy County		MD Reference		WELL @ 3329.50ft (19' KB Correction)	
Site: Parkway 23 State Com		North Reference		Grid	
Well: #2H		Survey Calculation Method:		Minimum Curvature	
Wellbore: OH		Database		Midland Database	
Design: Plan #1					

Target	Target Name	Dip/Angle	DipDir	TVD	N/S	E/W	North	Easting	Latitude	Longitude
		(°)	(°)	(ft)	(N)	(E)	(ft)	(ft)		
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 Depth	Vertical Depth	Local Coordinates	Comment
	(ft)	(ft)	N/S	
			(N)	
	7,492.75	7,492.75	0.00	Start Build 11.88
	8,028.72	7,925.00	4.36	Top of F Sand - 8028.72 MD, 63.68° INC, 89.07° AZI, 7925.00 TVD
	8,250.27	7,975.00	7.83	Start 4249.48 hold at 8250.27 MD
	12,499.75	7,975.00	76.80	TD at 12499.75

Checked By: _____ Approved By: _____ Date: _____