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District III
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Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources
Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

HOBBSOCD

JAN 26 2015

RECEIVED

FORM C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025- 42383	² Pool Code 98116	³ Pool Name Wildcat Wolfcamp Oil
⁴ Property Code 313188	⁵ Property Name OSPREY 10	⁶ Well Number #701H
⁷ GRID No. 7377	⁸ Operator Name EOG RESOURCES, INC.	⁹ Elevation 3346'

¹⁰Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	10	25-S	34-E	-	220'	NORTH	1685'	WEST	LEA

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	10	25-S	34-E	-	231'	SOUTH	1140'	WEST	LEA

¹² Dedicated Acres 160.00	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ 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.

		¹⁷OPERATOR 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. <i>Stan Wagner</i> 1/27/15 Signature Date Stan Wagner Printed Name _____ E-mail Address	
¹⁸SURVEYOR 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 to the best of my belief. _____ Date of Survey Signature and Title or Professional Seal 01/27/2015 MICHAEL BROWN NEW MEXICO 18329 PROFESSIONAL SURVEYOR		Certificate Number	

JAN 29 2015

Permit Information:

Well Name: Osprey 10 No. 701H

Location:

SL: 220' FNL & 1685' FWL, Section 10, T-25-S, R-34-E, Lea Co., N.M.

BHL: 231' FSL & 1140' FWL, Section 10, T-25-S, R-34-E, Lea Co., N.M.

Casing Program:

Hole Size	Interval	Csg OD	Weight	Grade	Conn	DF _{min} Collapse	DF _{min} Burst	DF _{min} Tension
12.25"	0 - 1,250'	9.625"	40#	J55	STC	1.125	1.25	1.60
8.75"	0-11,400'	7"	26#	HCP-110	LTC	1.125	1.25	1.60
6.125"	0'-17,272'	4.5"	13.5#	HCP-110	BTC	1.125	1.25	1.60

Cement Program:

Depth	No. Sacks	Wt. ppg	Yld Ft ³ /ft	Slurry Description
1,250'	400	13.5	1.73	Class C + 4.0% Bentonite + 0.6% CD-32 + 0.5% CaCl ₂ + 0.25 lb/sk Cello-Flake (TOC @ Surface)
	200	14.8	1.34	Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate
11,400' DV Tool @ 5,200'	300	10.8	3.68	Stage 1 Lead: Class C + 15.00 lbs/sk BA-90 + 4.00% MPA-5 + 3.00% SMS + 5.00% A-10 + 1.00% BA-10A + 0.80% ASA-301 + 2.90% R-21 + 8.00 lb/sk LCM-1 + 0.005 lb/sx Static Free
	200	14.2	1.32	Stage 1 Tail: Class H + 0.65% FL-52 + 0.6% CD-32 + 1.0% EC-1 + 0.65% SMS + 2.0% Salt + 0.2% R-21 + 0.005 gps FP-6L + 0.005 pps Static Free
	400	12.7	2.22	Stage 2 Lead: Class 'C' + 2.0% SMS + 10.0% Slat + 0.55% R-21 + 0.25 pps Celloflake + 0.005 pps Static Free (TOC @ Surface)
	200	14.8	1.35	Stage 2 Tail: Class 'C' + 0.60% FL-62 + 0.7% CD-32 + 0.3% SMS + 2.0% Salt + 0.10% R-3 + 0.005 pps Static Free + 0.005 gps FP-6L
17,272'	575	11.9	2.36	50:50:6 Class H + 0.20% FL-52 + 0.75% CD-32 + 1.0% EC-1 + 0.15% ASA-301 + 1.60% SMS + 5.0% Salt + 0.50% R-21 + 5.0 pps LCM-1 (TOC @ 10,850')
	450	14.2	1.35	50:50:2 Class H + 0.65% FL-52 + 0.70% CD-32 + 1.0% EC-1 + 0.40% SMS + 2.0% Salt + 0.05% R-3 + 0.005 pps Static Free + 0.005 gps FP-6L

Mud Program:

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 - 1,250'	Fresh - Gel	8.6-8.8	28-34	N/c
1,250' - 11,400'	Oil Base	8.7-9.4	58-68	N/c - 6
11,400' - 11,934'	Oil Base	8.7-9.4	58-68	N/c - 6
11,934' - 17,272' Lateral	Oil Base	9.0-9.5	58-68	N/c - 6

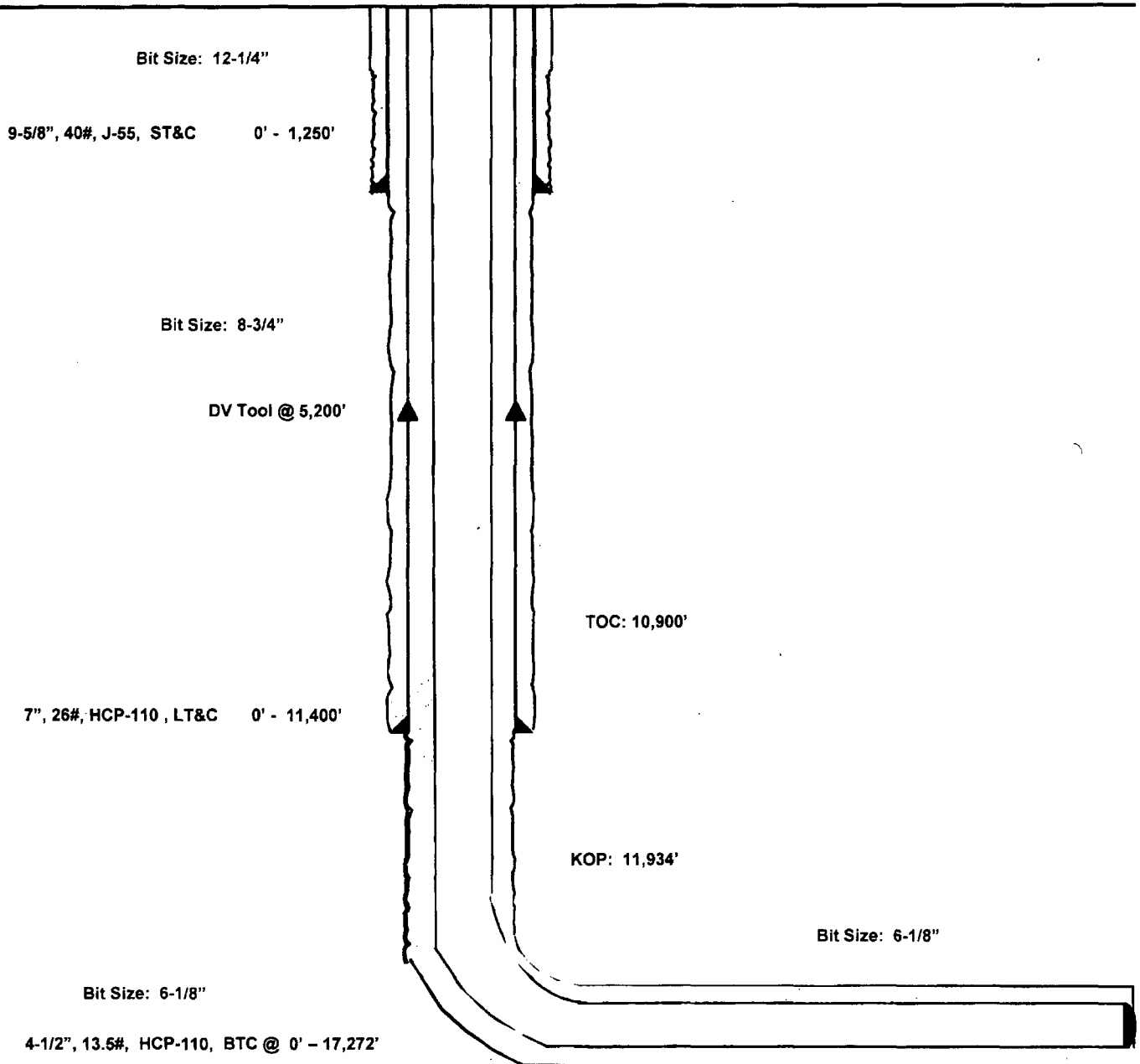
Osprey 10 #701H

Lea County, New Mexico
Proposed Wellbore

220' FNL
1685' FWL
Section 10
T-25-S, R-34-E

API: 30-025-*****

KB: 3,371'
GL: 3,346'



Lateral: 17,272' MD, 12,500' TVD

BH Location: 231' FSL & 1140' FWL
Section 10
T-25-S, R-34-E



Lea County, NM (NAD 27 NME)

Osprey 10 #701H

Plan #1

PROJECT DETAILS: Lea County, NM (NAD 27 NME)

Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1886
Zone: New Mexico East 3001
System Datum: Mean Sea Level



Azimuths to Grid North
True North: -0.47°
Magnetic North: 6.59°

Magnetic Field
Strength: 48153.3nT
Dip Angle: 60.03°
Date: 1/28/2016
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 6.65°
To convert a Magnetic Direction to a True Direction, Add 7.16° East
To convert a True Direction to a Grid Direction, Subtract 0.46°

WELL DETAILS: #701H

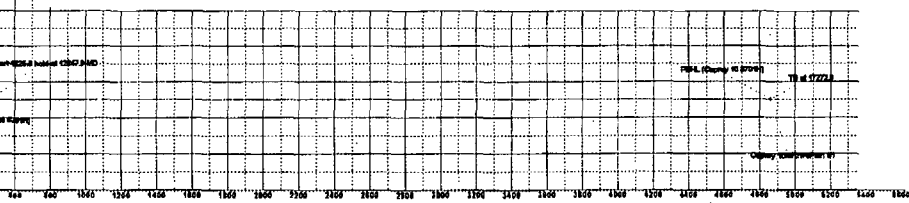
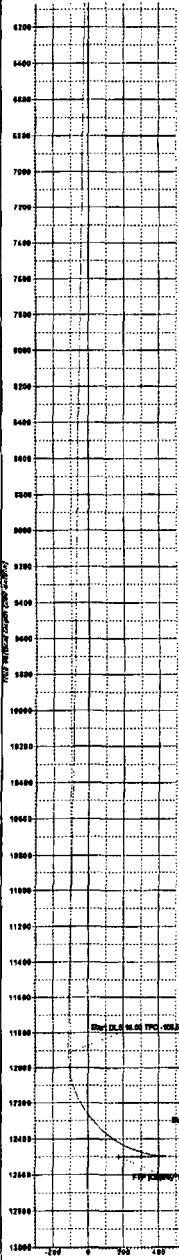
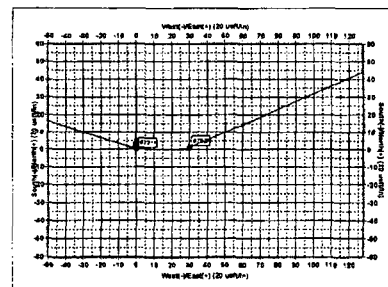
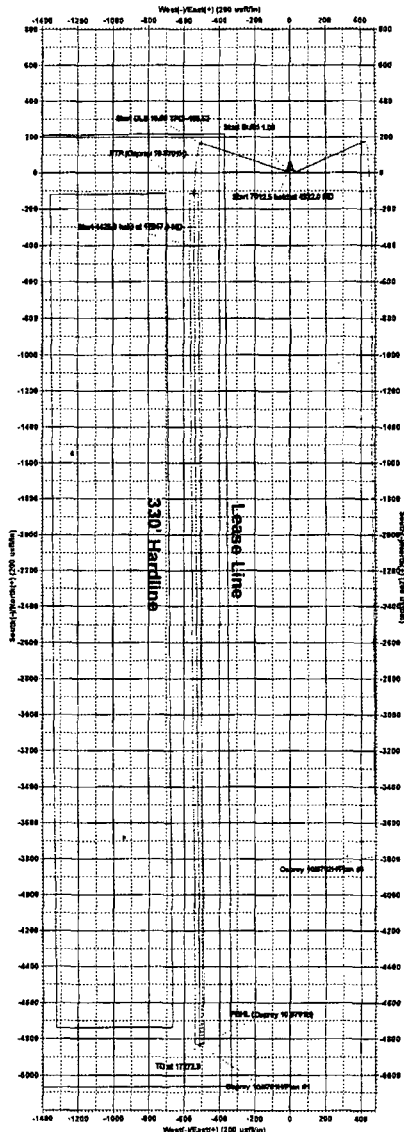
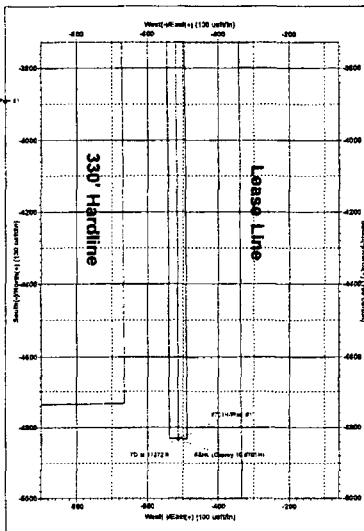
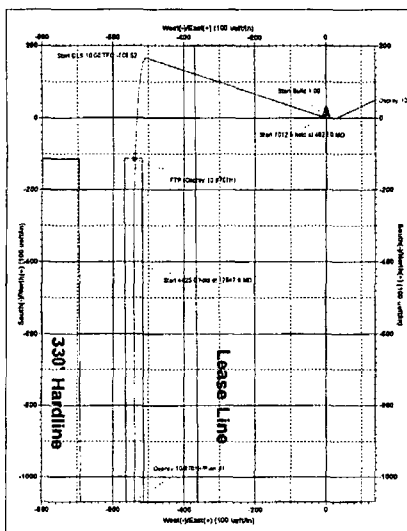
	N-S	E-W	North	Ground Level	KB = 25' @ 3371 Depth	Longitude	Slot
	0.0	0.0	419953.00	3346.0		103° 27' 37.431 W	

SECTION DETAILS

Sec	MD	Inc	At	TVD	+N-S	+E-W	Deg	TFace	Vsect	Target	Annotation
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0		
2	4500.0	0.00	0.00	4500.0	0.0	-0.0	0.00	0.00	0.0		
3	4923.0	4.32	289.19	4921.8	4.8	-14.9	1.00	398.19	-3.3		
4	11834.6	4.32	289.19	11816.0	168.9	-804.9	0.00	0.00	-111.7		
6	12547.9	80.00	179.62	12500.0	-437.1	-442.1	10.00	-108.62	482.0		
6	17272.9	90.00	179.62	12500.0	-432.0	-513.0	0.00	0.00	4899.2	PBHL (Osprey 10 #701H)	

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N-S	+E-W	North	East	Shape
PTP (Osprey 10 #701H)	12500.0	-114.0	-544.0	419939.00	769620.00	Point
PBHL (Osprey 10 #701H)	12500.0	-432.0	-513.0	419121.00	769661.00	Rectangle (Sides: L0.0 W80.0)





EOG Resources - Midland

Lea County, NM (NAD 27 NME)

Osprey 10

#701H

OH

Plan: Plan #1

Standard Survey Report

26 January, 2015



EOG Resources, Inc.

Survey Report

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Osprey 10
Well: #701H
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference: Well #701H
TVD Reference: KB = 25' @ 3371.0usft
MD Reference: KB = 25' @ 3371.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Project	Lea County, NM (NAD 27 NME)		
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	Osprey 10		
Site Position:		Northing:	415,103.00 usft
From:	Map	Easting:	768,701.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 8' 17.729 N
		Longitude:	103° 27' 54.902 W
		Grid Convergence:	0.46 °

Well	#701H		
Well Position	+N/-S	0.0 usft	Northing: 419,953.00 usft
	+E/-W	0.0 usft	Easting: 770,164.00 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	0.0 usft
		Latitude:	32° 9' 5.604 N
		Longitude:	103° 27' 37.431 W
		Ground Level:	3,346.0 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination
	IGRF2015	1/26/2015	(°)
			7.16
			Dip Angle
			(°)
			60.05
			Field Strength
			(nT)
			48,153

Design	Plan #1		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth: 0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction
			(°)
			186.06

Survey Tool Program	Date 1/26/2015		
From	To	Survey (Wellbore)	Tool Name
(usft)	(usft)		
0.0	17,272.9	Plan #1 (OH)	MWD
			Description
			MWD - Standard

Planned Survey									
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Vertical	Dogleg	Build	Turn
Depth	(°)	(°)	Depth	(usft)	(usft)	Section	Rate	Rate	Rate
(usft)			(usft)			(usft)	(°/100usft)	(°/100usft)	(°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00



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Company: EOG Resources - Midland
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Wellbore: OH
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MD Reference: KB = 25' @ 3371.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00
4,600.0	1.00	288.19	4,600.0	0.3	-0.8	-0.2	1.00	1.00	0.00
4,700.0	2.00	288.19	4,700.0	1.1	-3.3	-0.7	1.00	1.00	0.00
4,800.0	3.00	288.19	4,799.9	2.5	-7.5	-1.7	1.00	1.00	0.00
4,900.0	4.00	288.19	4,899.7	4.4	-13.3	-2.9	1.00	1.00	0.00
4,922.0	4.22	288.19	4,921.6	4.8	-14.8	-3.3	1.00	1.00	0.00
5,000.0	4.22	288.19	4,999.4	6.6	-20.2	-4.5	0.00	0.00	0.00
5,100.0	4.22	288.19	5,099.1	8.9	-27.2	-6.0	0.00	0.00	0.00
5,200.0	4.22	288.19	5,198.9	11.2	-34.2	-7.6	0.00	0.00	0.00



EOG Resources, Inc.

Survey Report

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Osprey 10
Well: #701H
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference: Well #701H
TVD Reference: KB = 25' @ 3371.0usft
MD Reference: KB = 25' @ 3371.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,300.0	4.22	288.19	5,298.6	13.5	-41.2	-9.1	0.00	0.00	0.00
5,400.0	4.22	288.19	5,398.3	15.8	-48.2	-10.7	0.00	0.00	0.00
5,500.0	4.22	288.19	5,498.1	18.1	-55.2	-12.2	0.00	0.00	0.00
5,600.0	4.22	288.19	5,597.8	20.4	-62.1	-13.8	0.00	0.00	0.00
5,700.0	4.22	288.19	5,697.5	22.7	-69.1	-15.3	0.00	0.00	0.00
5,800.0	4.22	288.19	5,797.2	25.0	-76.1	-16.8	0.00	0.00	0.00
5,900.0	4.22	288.19	5,897.0	27.3	-83.1	-18.4	0.00	0.00	0.00
6,000.0	4.22	288.19	5,996.7	29.6	-90.1	-19.9	0.00	0.00	0.00
6,100.0	4.22	288.19	6,096.4	31.9	-97.1	-21.5	0.00	0.00	0.00
6,200.0	4.22	288.19	6,196.2	34.2	-104.1	-23.0	0.00	0.00	0.00
6,300.0	4.22	288.19	6,295.9	36.5	-111.1	-24.6	0.00	0.00	0.00
6,400.0	4.22	288.19	6,395.6	38.8	-118.1	-26.1	0.00	0.00	0.00
6,500.0	4.22	288.19	6,495.3	41.1	-125.1	-27.7	0.00	0.00	0.00
6,600.0	4.22	288.19	6,595.1	43.4	-132.0	-29.2	0.00	0.00	0.00
6,700.0	4.22	288.19	6,694.8	45.7	-139.0	-30.8	0.00	0.00	0.00
6,800.0	4.22	288.19	6,794.5	48.0	-146.0	-32.3	0.00	0.00	0.00
6,900.0	4.22	288.19	6,894.3	50.3	-153.0	-33.9	0.00	0.00	0.00
7,000.0	4.22	288.19	6,994.0	52.6	-160.0	-35.4	0.00	0.00	0.00
7,100.0	4.22	288.19	7,093.7	54.9	-167.0	-37.0	0.00	0.00	0.00
7,200.0	4.22	288.19	7,193.4	57.2	-174.0	-38.5	0.00	0.00	0.00
7,300.0	4.22	288.19	7,293.2	59.5	-181.0	-40.0	0.00	0.00	0.00
7,400.0	4.22	288.19	7,392.9	61.8	-188.0	-41.6	0.00	0.00	0.00
7,500.0	4.22	288.19	7,492.6	64.1	-195.0	-43.1	0.00	0.00	0.00
7,600.0	4.22	288.19	7,592.4	66.4	-202.0	-44.7	0.00	0.00	0.00
7,700.0	4.22	288.19	7,692.1	68.7	-208.9	-46.2	0.00	0.00	0.00
7,800.0	4.22	288.19	7,791.8	71.0	-215.9	-47.8	0.00	0.00	0.00
7,900.0	4.22	288.19	7,891.5	73.3	-222.9	-49.3	0.00	0.00	0.00
8,000.0	4.22	288.19	7,991.3	75.6	-229.9	-50.9	0.00	0.00	0.00
8,100.0	4.22	288.19	8,091.0	77.9	-236.9	-52.4	0.00	0.00	0.00
8,200.0	4.22	288.19	8,190.7	80.2	-243.9	-54.0	0.00	0.00	0.00
8,300.0	4.22	288.19	8,290.5	82.5	-250.9	-55.5	0.00	0.00	0.00
8,400.0	4.22	288.19	8,390.2	84.8	-257.9	-57.1	0.00	0.00	0.00
8,500.0	4.22	288.19	8,489.9	87.1	-264.9	-58.6	0.00	0.00	0.00
8,600.0	4.22	288.19	8,589.6	89.4	-271.9	-60.2	0.00	0.00	0.00
8,700.0	4.22	288.19	8,689.4	91.7	-278.8	-61.7	0.00	0.00	0.00
8,800.0	4.22	288.19	8,789.1	93.9	-285.8	-63.2	0.00	0.00	0.00
8,900.0	4.22	288.19	8,888.8	96.2	-292.8	-64.8	0.00	0.00	0.00
9,000.0	4.22	288.19	8,988.6	98.5	-299.8	-66.3	0.00	0.00	0.00
9,100.0	4.22	288.19	9,088.3	100.8	-306.8	-67.9	0.00	0.00	0.00
9,200.0	4.22	288.19	9,188.0	103.1	-313.8	-69.4	0.00	0.00	0.00
9,300.0	4.22	288.19	9,287.8	105.4	-320.8	-71.0	0.00	0.00	0.00
9,400.0	4.22	288.19	9,387.5	107.7	-327.8	-72.5	0.00	0.00	0.00
9,500.0	4.22	288.19	9,487.2	110.0	-334.8	-74.1	0.00	0.00	0.00



EOG Resources, Inc.

Survey Report

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 27 NME)
 Site: Osprey 10
 Well: #701H
 Wellbore: OH
 Design: Plan #1

Local Co-ordinate Reference: Well #701H
 TVD Reference: KB = 25' @ 3371.0usft
 MD Reference: KB = 25' @ 3371.0usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM 5000.1 Single User Db

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N-S (usft)	+E-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,600.0	4.22	288.19	9,586.9	112.3	-341.8	-75.6	0.00	0.00	0.00
9,700.0	4.22	288.19	9,686.7	114.6	-348.7	-77.2	0.00	0.00	0.00
9,800.0	4.22	288.19	9,786.4	116.9	-355.7	-78.7	0.00	0.00	0.00
9,900.0	4.22	288.19	9,886.1	119.2	-362.7	-80.3	0.00	0.00	0.00
10,000.0	4.22	288.19	9,985.9	121.5	-369.7	-81.8	0.00	0.00	0.00
10,100.0	4.22	288.19	10,085.6	123.8	-376.7	-83.4	0.00	0.00	0.00
10,200.0	4.22	288.19	10,185.3	126.1	-383.7	-84.9	0.00	0.00	0.00
10,300.0	4.22	288.19	10,285.0	128.4	-390.7	-86.4	0.00	0.00	0.00
10,400.0	4.22	288.19	10,384.8	130.7	-397.7	-88.0	0.00	0.00	0.00
10,500.0	4.22	288.19	10,484.5	133.0	-404.7	-89.5	0.00	0.00	0.00
10,600.0	4.22	288.19	10,584.2	135.3	-411.7	-91.1	0.00	0.00	0.00
10,700.0	4.22	288.19	10,684.0	137.6	-418.6	-92.6	0.00	0.00	0.00
10,800.0	4.22	288.19	10,783.7	139.9	-425.6	-94.2	0.00	0.00	0.00
10,900.0	4.22	288.19	10,883.4	142.2	-432.6	-95.7	0.00	0.00	0.00
11,000.0	4.22	288.19	10,983.1	144.5	-439.6	-97.3	0.00	0.00	0.00
11,100.0	4.22	288.19	11,082.9	146.8	-446.6	-98.8	0.00	0.00	0.00
11,200.0	4.22	288.19	11,182.6	149.1	-453.6	-100.4	0.00	0.00	0.00
11,300.0	4.22	288.19	11,282.3	151.4	-460.6	-101.9	0.00	0.00	0.00
11,400.0	4.22	288.19	11,382.1	153.7	-467.6	-103.5	0.00	0.00	0.00
11,500.0	4.22	288.19	11,481.8	156.0	-474.6	-105.0	0.00	0.00	0.00
11,600.0	4.22	288.19	11,581.5	158.3	-481.6	-106.6	0.00	0.00	0.00
11,700.0	4.22	288.19	11,681.2	160.6	-488.5	-108.1	0.00	0.00	0.00
11,800.0	4.22	288.19	11,781.0	162.9	-495.5	-109.6	0.00	0.00	0.00
11,900.0	4.22	288.19	11,880.7	165.2	-502.5	-111.2	0.00	0.00	0.00
11,934.4	4.22	288.19	11,915.0	166.0	-504.9	-111.7	0.00	0.00	0.00
11,950.0	4.01	266.56	11,930.6	166.1	-506.0	-111.8	10.00	-1.37	-138.98
12,000.0	6.57	217.02	11,980.4	163.7	-509.5	-109.0	10.00	5.12	-99.08
12,050.0	10.96	200.79	12,029.8	157.0	-512.9	-102.0	10.00	8.79	-32.47
12,100.0	15.72	194.01	12,078.4	146.0	-516.2	-90.6	10.00	9.51	-13.56
12,150.0	20.59	190.35	12,125.9	130.7	-519.4	-75.2	10.00	9.74	-7.32
12,200.0	25.51	188.05	12,171.9	111.4	-522.5	-55.6	10.00	9.84	-4.60
12,250.0	30.45	186.46	12,216.1	88.1	-525.5	-32.2	10.00	9.89	-3.19
12,300.0	35.41	185.27	12,258.0	61.1	-528.2	-5.0	10.00	9.92	-2.37
12,350.0	40.38	184.34	12,297.5	30.5	-530.8	25.7	10.00	9.94	-1.86
12,400.0	45.35	183.58	12,334.1	-3.4	-533.1	59.7	10.00	9.95	-1.51
12,450.0	50.33	182.95	12,367.6	-40.4	-535.2	96.7	10.00	9.96	-1.27
12,500.0	55.31	182.40	12,397.9	-80.2	-537.1	136.4	10.00	9.96	-1.10
12,550.0	60.29	181.91	12,424.5	-122.4	-538.7	178.6	10.00	9.97	-0.98
12,600.0	65.28	181.47	12,447.3	-166.9	-540.0	222.9	10.00	9.97	-0.88
12,650.0	70.26	181.06	12,466.3	-213.1	-541.0	269.1	10.00	9.97	-0.81
12,700.0	75.25	180.68	12,481.1	-260.9	-541.7	316.6	10.00	9.97	-0.77
12,750.0	80.24	180.31	12,491.7	-309.7	-542.1	365.2	10.00	9.97	-0.73
12,800.0	85.23	179.96	12,498.0	-359.3	-542.2	414.5	10.00	9.98	-0.71



EOG Resources, Inc.

Survey Report

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Osprey 10
Well: #701H
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference: Well #701H
TVD Reference: KB = 25' @ 3371.0usft
MD Reference: KB = 25' @ 3371.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
12,847.9	90.00	179.62	12,500.0	-407.1	-542.1	462.0	10.00	9.98	-0.70
12,900.0	90.00	179.62	12,500.0	-459.2	-541.7	513.9	0.00	0.00	0.00
13,000.0	90.00	179.62	12,500.0	-559.2	-541.1	613.2	0.00	0.00	0.00
13,100.0	90.00	179.62	12,500.0	-659.2	-540.4	712.6	0.00	0.00	0.00
13,200.0	90.00	179.62	12,500.0	-759.2	-539.8	812.0	0.00	0.00	0.00
13,300.0	90.00	179.62	12,500.0	-859.2	-539.1	911.3	0.00	0.00	0.00
13,400.0	90.00	179.62	12,500.0	-959.2	-538.4	1,010.7	0.00	0.00	0.00
13,500.0	90.00	179.62	12,500.0	-1,059.2	-537.8	1,110.1	0.00	0.00	0.00
13,600.0	90.00	179.62	12,500.0	-1,159.2	-537.1	1,209.4	0.00	0.00	0.00
13,700.0	90.00	179.62	12,500.0	-1,259.2	-536.5	1,308.8	0.00	0.00	0.00
13,800.0	90.00	179.62	12,500.0	-1,359.2	-535.8	1,408.2	0.00	0.00	0.00
13,900.0	90.00	179.62	12,500.0	-1,459.2	-535.2	1,507.6	0.00	0.00	0.00
14,000.0	90.00	179.62	12,500.0	-1,559.2	-534.5	1,606.9	0.00	0.00	0.00
14,100.0	90.00	179.62	12,500.0	-1,659.2	-533.8	1,706.3	0.00	0.00	0.00
14,200.0	90.00	179.62	12,500.0	-1,759.2	-533.2	1,805.7	0.00	0.00	0.00
14,300.0	90.00	179.62	12,500.0	-1,859.2	-532.5	1,905.0	0.00	0.00	0.00
14,400.0	90.00	179.62	12,500.0	-1,959.2	-531.9	2,004.4	0.00	0.00	0.00
14,500.0	90.00	179.62	12,500.0	-2,059.2	-531.2	2,103.8	0.00	0.00	0.00
14,600.0	90.00	179.62	12,500.0	-2,159.2	-530.6	2,203.1	0.00	0.00	0.00
14,700.0	90.00	179.62	12,500.0	-2,259.2	-529.9	2,302.5	0.00	0.00	0.00
14,800.0	90.00	179.62	12,500.0	-2,359.2	-529.2	2,401.9	0.00	0.00	0.00
14,900.0	90.00	179.62	12,500.0	-2,459.2	-528.6	2,501.3	0.00	0.00	0.00
15,000.0	90.00	179.62	12,500.0	-2,559.2	-527.9	2,600.6	0.00	0.00	0.00
15,100.0	90.00	179.62	12,500.0	-2,659.2	-527.3	2,700.0	0.00	0.00	0.00
15,200.0	90.00	179.62	12,500.0	-2,759.2	-526.6	2,799.4	0.00	0.00	0.00
15,300.0	90.00	179.62	12,500.0	-2,859.2	-526.0	2,898.7	0.00	0.00	0.00
15,400.0	90.00	179.62	12,500.0	-2,959.2	-525.3	2,998.1	0.00	0.00	0.00
15,500.0	90.00	179.62	12,500.0	-3,059.2	-524.6	3,097.5	0.00	0.00	0.00
15,600.0	90.00	179.62	12,500.0	-3,159.2	-524.0	3,196.8	0.00	0.00	0.00
15,700.0	90.00	179.62	12,500.0	-3,259.2	-523.3	3,296.2	0.00	0.00	0.00
15,800.0	90.00	179.62	12,500.0	-3,359.2	-522.7	3,395.6	0.00	0.00	0.00
15,900.0	90.00	179.62	12,500.0	-3,459.2	-522.0	3,494.9	0.00	0.00	0.00
16,000.0	90.00	179.62	12,500.0	-3,559.2	-521.4	3,594.3	0.00	0.00	0.00
16,100.0	90.00	179.62	12,500.0	-3,659.2	-520.7	3,693.7	0.00	0.00	0.00
16,200.0	90.00	179.62	12,500.0	-3,759.2	-520.0	3,793.1	0.00	0.00	0.00
16,300.0	90.00	179.62	12,500.0	-3,859.2	-519.4	3,892.4	0.00	0.00	0.00
16,400.0	90.00	179.62	12,500.0	-3,959.2	-518.7	3,991.8	0.00	0.00	0.00
16,500.0	90.00	179.62	12,500.0	-4,059.2	-518.1	4,091.2	0.00	0.00	0.00
16,600.0	90.00	179.62	12,500.0	-4,159.2	-517.4	4,190.5	0.00	0.00	0.00
16,700.0	90.00	179.62	12,500.0	-4,259.2	-516.8	4,289.9	0.00	0.00	0.00
16,800.0	90.00	179.62	12,500.0	-4,359.1	-516.1	4,389.3	0.00	0.00	0.00
16,900.0	90.00	179.62	12,500.0	-4,459.1	-515.4	4,488.6	0.00	0.00	0.00
17,000.0	90.00	179.62	12,500.0	-4,559.1	-514.8	4,588.0	0.00	0.00	0.00
17,100.0	90.00	179.62	12,500.0	-4,659.1	-514.1	4,687.4	0.00	0.00	0.00



EOG Resources, Inc.

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Wellbore: OH
Design: Plan #1

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Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

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Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
17,200.0	90.00	179.62	12,500.0	-4,759.1	-513.5	4,788.8	0.00	0.00	0.00
17,272.9	90.00	179.62	12,500.0	-4,832.0	-513.0	4,859.2	0.00	0.00	0.00

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL (Osprey 10 #701H) - hit/miss target - Shape - plan hits target center - Rectangle (sides W50.0 H0.0 D4,718.0)	90.00	179.63	12,500.0	-4,832.0	-513.0	415,121.00	769,651.00	32° 8' 17.831 N	103° 27' 43.852 W
FTP (Osprey 10 #701H) - plan misses target center by 70.6usft at 12577.2usft MD (12437.4 TVD, -146.3 N, -539.4 E) - Point	0.00	0.00	12,500.0	-114.0	-544.0	419,839.00	769,620.00	32° 9' 4.520 N	103° 27' 43.769 W

Checked By: _____ Approved By: _____ Date: _____