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1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
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

HOBBS OCD

FORM C-102

Revised August 1, 2011

MAY 01 2014

Submit one copy to appropriate

District Office

RECEIVED



AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025- 41816	² Pool Code 97900	³ Pool Name Red Hills; Upper Bone Spring Shale
⁴ Property Code 313188	⁵ Property Name OSPREY 10	⁶ Well Number #1H
⁷ OGRID No. 7377	⁸ Operator Name EOG RESOURCES, INC.	⁹ Elevation 3333'

¹⁰Surface Location

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	-	220'	SOUTH	190'	WEST	LEA

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	10	25-S	34-E	-	230'	NORTH	380'	WEST	LEA

¹¹ Dedicated Acres 160	¹² Joint or Infill	¹³ Consolidation Code	¹⁴ 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.

¹⁴		¹⁷ 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. Signature: <u>Stan Wagner</u> Date: <u>5/1/14</u> Printed Name: <u>Stan Wagner</u> E-mail Address: _____	
¹⁸ 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 to the best of my belief. Date of Survey: <u>4/01/2014</u> Signature: <u>[Signature]</u> Professional Surveyor Seal: <u>18329</u> Certificate Number: _____			

MAY 05 2014

Permit Information:

Well Name: Osprey 10 No. 1H

Location:

SL: 220' FSL & 190' FWL, Section 10, T-25-S, R-34-E, Lea Co., N.M.

BHL: 230' FNL & 380' 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
17.5"	0 - 900'	13.375"	54.5#	J55	STC	1.125	1.25	1.60
12.25"	0-4000'	9.625"	40#	J55	LTC	1.125	1.25	1.60
12.25"	4000' - 5100'	9.625"	40#	HCK-55	LTC	1.125	1.25	1.60
8.75"	0'-14,206'	5.5"	17#	HCP-110	LTC	1.125	1.25	1.60

Cement Program:

Depth	No. Sacks	Wt. ppg	Yld Ft ³ /ft	Slurry Description
900'	500	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
5,100'	800	12.7	2.22	Class 'C' + 1.50% R-3 + 0.25 lb/sk Cello-Flake + 2.0% Sodium Metasilicate + 10% Salt + 0.005 lb/sk Static Free
	200	14.8	1.32	Tail: Class 'C' + 0.25 lb/sk Cello Flake + 0.005 lb/sk Static Free
14,206'	375	10.8	3.67	60:40:0 Class C + 15.0 pps BA-90 + 4% MPA-5 + 3.0% SMS + 5.0% A-10 + 1.0% BA-10A + 0.80% ASA-301 + 2.55% R-21 + 8.0 pps LCM-1
	400	11.8	2.38	50:50:10 Class H + 0.80% FL-52 + 0.30% ASA-301 + 0.40% SMS + 2.0% Salt + 0.30% R-21 + 3.0 pps LCM-1 + 0.25 pps Celloflake
	1325	14.2	1.28	50:50:2 Class H + 0.65% FL-52 + 0.45% CD-32 + 0.10% SMS + 2.0% Salt

Mud Program:

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 - 900'	Fresh - Gel	8.6-8.8	28-34	N/c
900' - 5,100'	Brine	10.0-10.2	28-34	N/c
5,100' - 9,082'	Cut Brine	8.4-9.0	28-34	N/c
KOP - 14,206' Lateral	Cut Brine	9.0-9.5	40-42	8-10

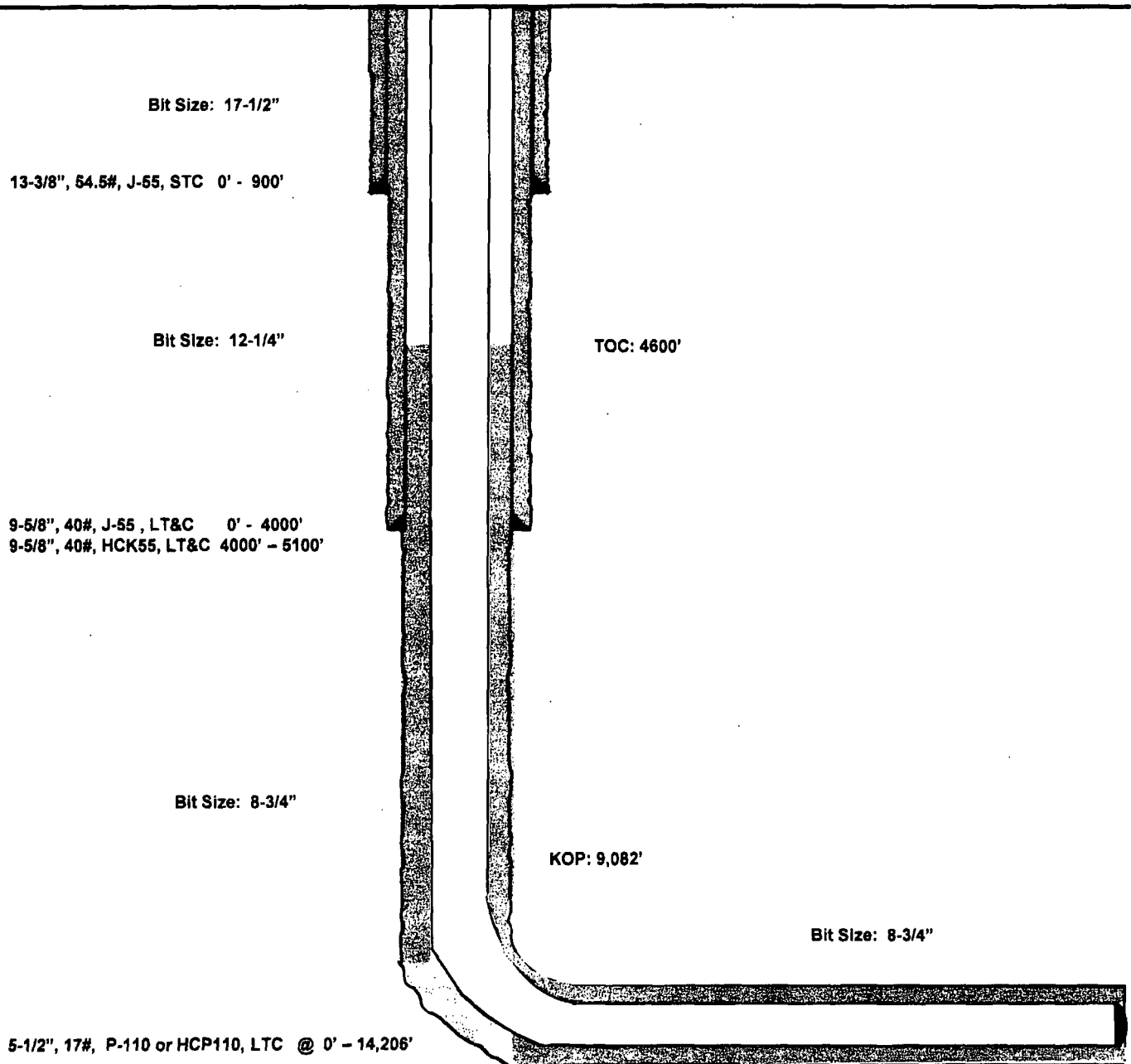
Osprey 10 #1H
Red Hills
Lea County, New Mexico

220' FSL
190' FWL
Section 10
T-25-S, R-34-E

Proposed Wellbore

KB: 3,363'
GL: 3,333'

API: 30-025-



Lateral: 14,206' MD, 9,522' TVD

BH Location: 230' FNL & 380' FWL
Section 10
T-25-S, R-34-E



Lea County, NM

Osprey 10 #1H

3333' GL + 30' KB

Plan #1

PROJECT DETAILS: Lea County, NM

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

WELL DETAILS: Osprey 10 #1H

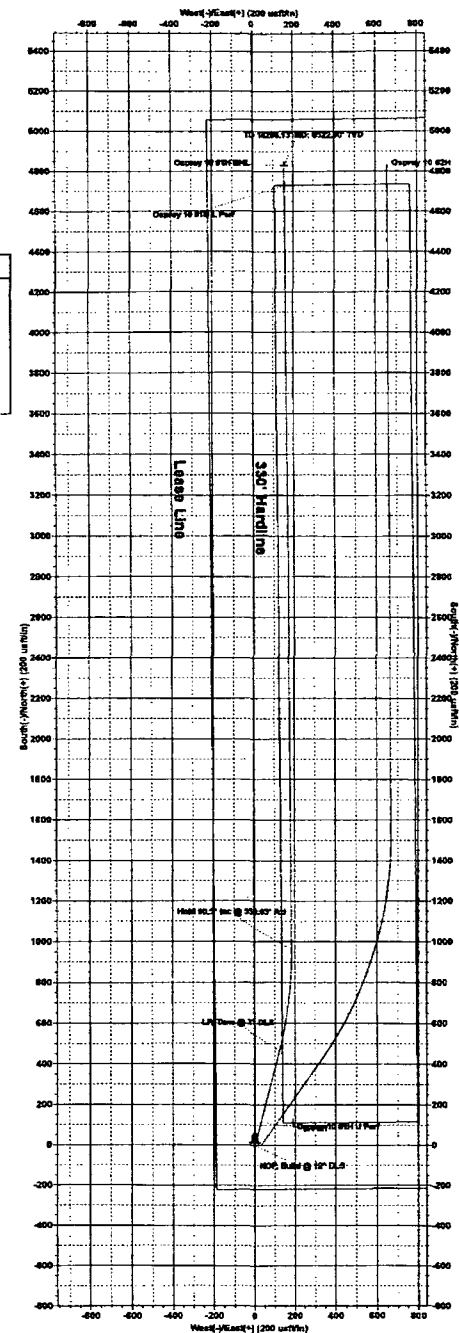
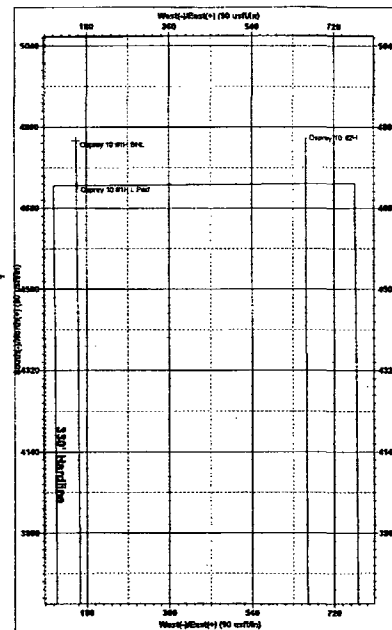
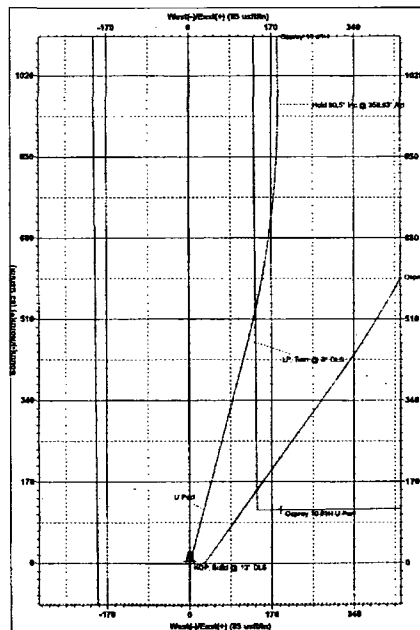
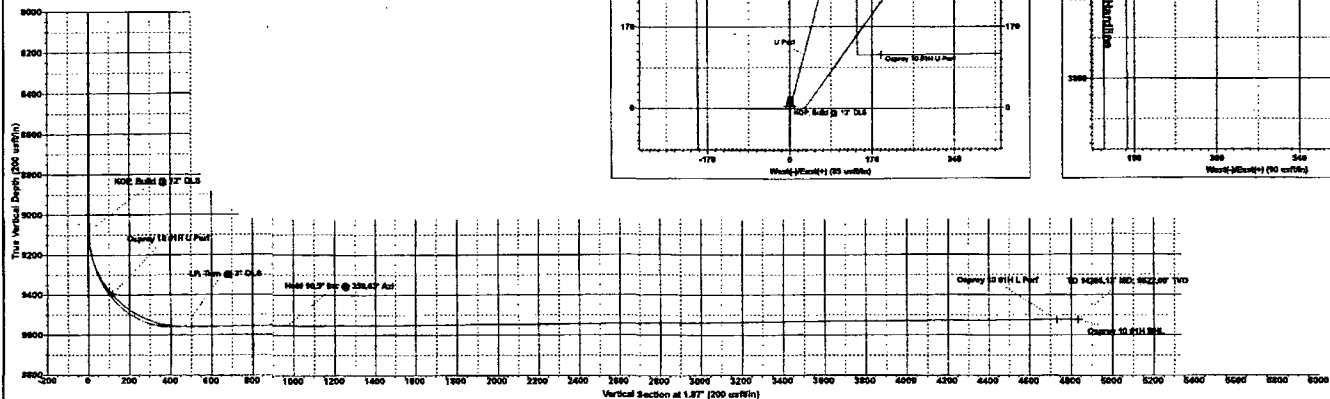
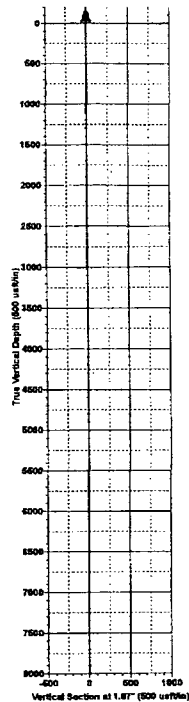
Ground Level: 3333.00
Northing: 415103.00 Easting: 768701.00 Latitude: 32° 8' 17.729 N Longitude: 103° 27' 54.902 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	VFace	Target	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2	9082.65	0.00	0.00	9082.65	0.00	0.00	0.00	0.00	0.00		KOP, Build @ 12" DLS
3	9836.72	90.50	14.60	9560.00	466.08	121.40	12.00	14.60	466.80		L.P. Turn @ 3" DLS
4	10336.72	90.50	359.63	9555.53	959.81	183.03	3.00	-88.94	968.28		Hold 90.5° Inc @ 359.63° Azi
5	14206.13	90.50	359.63	9522.00	4838.00	158.00	0.00	0.00	4832.58		TD 14206.13' MD; 9522.00' TVD

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N-S	+E-W	Northing	Easting	Shape
Osprey 10 #1H U Perf	9394.28	112.00	415215.00	768880.00	Point	
Osprey 10 #1H BHL	9522.00	4838.00	419923.00	768559.00	Point	
Osprey 10 #1H L Perf	9522.87	4730.00	419833.00	768880.00	Point	





EOG Resources - Midland

Lea County, NM

Osprey 10

Osprey 10 #1H

OH

Plan: Plan #1

Standard Survey Report

30 April, 2014



EOG Resources, Inc.

Survey Report

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well Osprey 10 #1H
Project:	Lea County, NM	TVD Reference:	WELL @ 3363.00usft (3333' GL + 30' KB)
Site:	Osprey 10	MD Reference:	WELL @ 3363.00usft (3333' GL + 30' KB)
Well:	Osprey 10 #1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	EDM 5000.1 Single User Db

Project	Lea County, NM		
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	Latitude:	32° 8' 17.729 N	
From:	Map	Easting:	768,701.00 usft	Longitude:	103° 27' 54.902 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.46 °

Well	Osprey 10 #1H					
Well Position	+N/-S	0.00 usft	Northing:	415,103.00 usft	Latitude:	32° 8' 17.729 N
	+E/-W	0.00 usft	Easting:	768,701.00 usft	Longitude:	103° 27' 54.902 W
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,333.00 usft	

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF201014	4/30/2014	7.18	60.05	48,289

Design	Plan #1				
Audit Notes:					
Version:	Phase:	PLAN	Tie On Depth:	0.00	
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	1.87	

Survey Tool Program	Date	4/30/2014			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.00	14,206.08	Plan #1 (OH)	MWD	MWD - Standard	

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Bulid Rate (°/100usft)	Turn Rate (°/100usft)
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	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00



EOG Resources, Inc.

Survey Report

Company: EOG Resources - Midland
Project: Lea County, NM
Site: Osprey 10
Well: Osprey 10 #1H
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference: Well Osprey 10 #1H
TVD Reference: WELL @ 3383.00usft (3333' GL + 30' KB)
MD Reference: WELL @ 3383.00usft (3333' GL + 30' KB)
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)
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.00	0.00	0.00
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.00	0.00	0.00
5,100.00	0.00	0.00	5,100.00	0.00	0.00	0.00	0.00	0.00	0.00
5,200.00	0.00	0.00	5,200.00	0.00	0.00	0.00	0.00	0.00	0.00
5,300.00	0.00	0.00	5,300.00	0.00	0.00	0.00	0.00	0.00	0.00



EOG Resources, Inc.

Survey Report

Company: EOG Resources - Midland
Project: Lea County, NM
Site: Osprey 10
Well: Osprey 10 #1H
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference: Well Osprey 10 #1H
TVD Reference: WELL @ 3363.00usft (3333' GL + 30' KB)
MD Reference: WELL @ 3363.00usft (3333' GL + 30' KB)
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)
5,400.00	0.00	0.00	5,400.00	0.00	0.00	0.00	0.00	0.00	0.00
5,500.00	0.00	0.00	5,500.00	0.00	0.00	0.00	0.00	0.00	0.00
5,600.00	0.00	0.00	5,600.00	0.00	0.00	0.00	0.00	0.00	0.00
5,700.00	0.00	0.00	5,700.00	0.00	0.00	0.00	0.00	0.00	0.00
5,800.00	0.00	0.00	5,800.00	0.00	0.00	0.00	0.00	0.00	0.00
5,900.00	0.00	0.00	5,900.00	0.00	0.00	0.00	0.00	0.00	0.00
6,000.00	0.00	0.00	6,000.00	0.00	0.00	0.00	0.00	0.00	0.00
6,100.00	0.00	0.00	6,100.00	0.00	0.00	0.00	0.00	0.00	0.00
6,200.00	0.00	0.00	6,200.00	0.00	0.00	0.00	0.00	0.00	0.00
6,300.00	0.00	0.00	6,300.00	0.00	0.00	0.00	0.00	0.00	0.00
6,400.00	0.00	0.00	6,400.00	0.00	0.00	0.00	0.00	0.00	0.00
6,500.00	0.00	0.00	6,500.00	0.00	0.00	0.00	0.00	0.00	0.00
6,600.00	0.00	0.00	6,600.00	0.00	0.00	0.00	0.00	0.00	0.00
6,700.00	0.00	0.00	6,700.00	0.00	0.00	0.00	0.00	0.00	0.00
6,800.00	0.00	0.00	6,800.00	0.00	0.00	0.00	0.00	0.00	0.00
6,900.00	0.00	0.00	6,900.00	0.00	0.00	0.00	0.00	0.00	0.00
7,000.00	0.00	0.00	7,000.00	0.00	0.00	0.00	0.00	0.00	0.00
7,100.00	0.00	0.00	7,100.00	0.00	0.00	0.00	0.00	0.00	0.00
7,200.00	0.00	0.00	7,200.00	0.00	0.00	0.00	0.00	0.00	0.00
7,300.00	0.00	0.00	7,300.00	0.00	0.00	0.00	0.00	0.00	0.00
7,400.00	0.00	0.00	7,400.00	0.00	0.00	0.00	0.00	0.00	0.00
7,500.00	0.00	0.00	7,500.00	0.00	0.00	0.00	0.00	0.00	0.00
7,600.00	0.00	0.00	7,600.00	0.00	0.00	0.00	0.00	0.00	0.00
7,700.00	0.00	0.00	7,700.00	0.00	0.00	0.00	0.00	0.00	0.00
7,800.00	0.00	0.00	7,800.00	0.00	0.00	0.00	0.00	0.00	0.00
7,900.00	0.00	0.00	7,900.00	0.00	0.00	0.00	0.00	0.00	0.00
8,000.00	0.00	0.00	8,000.00	0.00	0.00	0.00	0.00	0.00	0.00
8,100.00	0.00	0.00	8,100.00	0.00	0.00	0.00	0.00	0.00	0.00
8,200.00	0.00	0.00	8,200.00	0.00	0.00	0.00	0.00	0.00	0.00
8,300.00	0.00	0.00	8,300.00	0.00	0.00	0.00	0.00	0.00	0.00
8,400.00	0.00	0.00	8,400.00	0.00	0.00	0.00	0.00	0.00	0.00
8,500.00	0.00	0.00	8,500.00	0.00	0.00	0.00	0.00	0.00	0.00
8,600.00	0.00	0.00	8,600.00	0.00	0.00	0.00	0.00	0.00	0.00
8,700.00	0.00	0.00	8,700.00	0.00	0.00	0.00	0.00	0.00	0.00
8,800.00	0.00	0.00	8,800.00	0.00	0.00	0.00	0.00	0.00	0.00
8,900.00	0.00	0.00	8,900.00	0.00	0.00	0.00	0.00	0.00	0.00
9,000.00	0.00	0.00	9,000.00	0.00	0.00	0.00	0.00	0.00	0.00
9,082.55	0.00	0.00	9,082.55	0.00	0.00	0.00	0.00	0.00	0.00
KOP, Build @ 12° DLS									
9,100.00	2.09	14.60	9,100.00	0.31	0.08	0.31	12.00	12.00	0.00
9,125.00	5.09	14.60	9,124.94	1.82	0.48	1.84	12.00	12.00	0.00
9,150.00	8.09	14.60	9,149.78	4.60	1.20	4.64	12.00	12.00	0.00
9,175.00	11.09	14.60	9,174.42	8.63	2.25	8.70	12.00	12.00	0.00



EOG Resources, Inc.

Survey Report

Company: EOG Resources - Midland
Project: Lea County, NM
Site: Osprey 10
Well: Osprey 10 #1H
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference: Well Osprey 10 #1H
TVD Reference: WELL @ 3363.00usft (3333' GL + 30' KB)
MD Reference: WELL @ 3363.00usft (3333' GL + 30' KB)
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)
9,200.00	14.09	14.60	9,198.82	13.91	3.62	14.02	12.00	12.00	0.00
9,225.00	17.09	14.60	9,222.90	20.41	5.32	20.57	12.00	12.00	0.00
9,250.00	20.09	14.60	9,248.59	28.12	7.33	28.35	12.00	12.00	0.00
9,275.00	23.09	14.60	9,269.83	37.03	9.64	37.32	12.00	12.00	0.00
9,300.00	26.09	14.60	9,292.56	47.09	12.27	47.47	12.00	12.00	0.00
9,325.00	29.09	14.60	9,314.71	58.30	15.19	58.76	12.00	12.00	0.00
9,350.00	32.09	14.60	9,338.23	70.61	18.39	71.17	12.00	12.00	0.00
9,375.00	35.09	14.60	9,357.05	84.00	21.88	84.67	12.00	12.00	0.00
9,400.00	38.09	14.60	9,377.12	98.42	25.64	99.20	12.00	12.00	0.00
9,422.11	40.75	14.60	9,394.20	112.00	29.17	112.89	12.00	12.00	0.00
U Perf									
9,425.00	41.09	14.60	9,396.39	113.83	29.65	114.74	12.00	12.00	0.00
9,450.00	44.09	14.60	9,414.79	130.21	33.92	131.24	12.00	12.00	0.00
9,475.00	47.09	14.60	9,432.28	147.49	38.42	148.66	12.00	12.00	0.00
9,500.00	50.09	14.60	9,448.81	165.63	43.14	166.95	12.00	12.00	0.00
9,525.00	53.09	14.60	9,464.34	184.59	48.08	186.06	12.00	12.00	0.00
9,550.00	56.09	14.60	9,478.82	204.30	53.22	205.93	12.00	12.00	0.00
9,575.00	59.09	14.60	9,492.22	224.73	58.54	226.52	12.00	12.00	0.00
9,600.00	62.09	14.60	9,504.49	245.80	64.03	247.76	12.00	12.00	0.00
9,625.00	65.09	14.60	9,515.61	267.46	69.67	269.60	12.00	12.00	0.00
9,650.00	68.09	14.60	9,525.54	289.66	75.45	291.98	12.00	12.00	0.00
9,675.00	71.09	14.60	9,534.26	312.34	81.36	314.83	12.00	12.00	0.00
9,700.00	74.09	14.60	9,541.73	335.42	87.37	338.10	12.00	12.00	0.00
9,725.00	77.09	14.60	9,547.95	358.85	93.47	361.71	12.00	12.00	0.00
9,750.00	80.09	14.60	9,552.90	382.56	99.65	385.61	12.00	12.00	0.00
9,775.00	83.09	14.60	9,556.55	406.49	105.88	409.73	12.00	12.00	0.00
9,800.00	86.09	14.60	9,558.91	430.57	112.16	434.01	12.00	12.00	0.00
9,825.00	89.09	14.60	9,559.96	454.74	118.45	458.37	12.00	12.00	0.00
9,836.72	90.50	14.60	9,560.00	466.08	121.41	469.80	12.00	12.00	0.00
LP, Turn @ 3° DLS									
9,900.00	90.50	12.70	9,559.44	527.57	136.34	531.75	3.00	0.00	-3.00
10,000.00	90.50	9.70	9,558.57	625.65	155.76	630.41	3.00	0.00	-3.00
10,100.00	90.50	6.70	9,557.69	724.61	170.02	729.78	3.00	0.00	-3.00
10,200.00	90.50	3.70	9,556.81	824.19	179.09	829.60	3.00	0.00	-3.00
10,300.00	90.50	0.70	9,555.94	924.10	182.93	929.58	3.00	0.00	-3.00
10,335.72	90.50	359.63	9,555.63	959.81	183.03	965.29	3.00	0.00	-3.00
Hold 90.5° Inc @ 359.63° Azi									
10,400.00	90.50	359.63	9,555.07	1,024.09	182.62	1,029.51	0.00	0.00	0.00
10,500.00	90.50	359.63	9,554.20	1,124.08	181.97	1,129.43	0.00	0.00	0.00
10,600.00	90.50	359.63	9,553.33	1,224.08	181.32	1,229.35	0.00	0.00	0.00
10,700.00	90.50	359.63	9,552.46	1,324.07	180.67	1,329.27	0.00	0.00	0.00
10,800.00	90.50	359.63	9,551.59	1,424.07	180.03	1,429.19	0.00	0.00	0.00
10,900.00	90.50	359.63	9,550.72	1,524.06	179.38	1,529.11	0.00	0.00	0.00
11,000.00	90.50	359.63	9,549.86	1,624.06	178.73	1,629.03	0.00	0.00	0.00



EOG Resources, Inc.

Survey Report

Company: EOG Resources - Midland
Project: Lea County, NM
Site: Osprey 10
Well: Osprey 10 #1H
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference: Well Osprey 10 #1H
TVD Reference: WELL @ 3363.00usft (3333' GL + 30' KB)
MD Reference: WELL @ 3363.00usft (3333' GL + 30' KB)
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)
11,100.00	90.50	359.63	9,548.99	1,724.05	178.09	1,728.95	0.00	0.00	0.00
11,200.00	90.50	359.63	9,548.12	1,824.04	177.44	1,828.87	0.00	0.00	0.00
11,300.00	90.50	359.63	9,547.25	1,924.04	176.79	1,928.79	0.00	0.00	0.00
11,400.00	90.50	359.63	9,546.38	2,024.03	176.15	2,028.71	0.00	0.00	0.00
11,500.00	90.50	359.63	9,545.51	2,124.03	175.50	2,128.63	0.00	0.00	0.00
11,600.00	90.50	359.63	9,544.64	2,224.02	174.85	2,228.55	0.00	0.00	0.00
11,700.00	90.50	359.63	9,543.77	2,324.01	174.21	2,328.47	0.00	0.00	0.00
11,800.00	90.50	359.63	9,542.91	2,424.01	173.56	2,428.39	0.00	0.00	0.00
11,900.00	90.50	359.63	9,542.04	2,524.00	172.91	2,528.31	0.00	0.00	0.00
12,000.00	90.50	359.63	9,541.17	2,624.00	172.27	2,628.23	0.00	0.00	0.00
12,100.00	90.50	359.63	9,540.30	2,723.99	171.62	2,728.15	0.00	0.00	0.00
12,200.00	90.50	359.63	9,539.43	2,823.98	170.97	2,828.06	0.00	0.00	0.00
12,300.00	90.50	359.63	9,538.56	2,923.98	170.33	2,927.98	0.00	0.00	0.00
12,400.00	90.50	359.63	9,537.69	3,023.97	169.68	3,027.90	0.00	0.00	0.00
12,500.00	90.50	359.63	9,536.82	3,123.97	169.03	3,127.82	0.00	0.00	0.00
12,600.00	90.50	359.63	9,535.95	3,223.96	168.39	3,227.74	0.00	0.00	0.00
12,700.00	90.50	359.63	9,535.09	3,323.96	167.74	3,327.66	0.00	0.00	0.00
12,800.00	90.50	359.63	9,534.22	3,423.95	167.09	3,427.58	0.00	0.00	0.00
12,900.00	90.50	359.63	9,533.35	3,523.94	166.45	3,527.50	0.00	0.00	0.00
13,000.00	90.50	359.63	9,532.48	3,623.94	165.80	3,627.42	0.00	0.00	0.00
13,100.00	90.50	359.63	9,531.61	3,723.93	165.15	3,727.34	0.00	0.00	0.00
13,200.00	90.50	359.63	9,530.74	3,823.93	164.51	3,827.26	0.00	0.00	0.00
13,300.00	90.50	359.63	9,529.87	3,923.92	163.86	3,927.18	0.00	0.00	0.00
13,400.00	90.50	359.63	9,529.00	4,023.91	163.21	4,027.10	0.00	0.00	0.00
13,500.00	90.50	359.63	9,528.14	4,123.91	162.57	4,127.02	0.00	0.00	0.00
13,600.00	90.50	359.63	9,527.27	4,223.90	161.92	4,226.94	0.00	0.00	0.00
13,700.00	90.50	359.63	9,526.40	4,323.90	161.27	4,326.86	0.00	0.00	0.00
13,800.00	90.50	359.63	9,525.53	4,423.89	160.63	4,426.78	0.00	0.00	0.00
13,900.00	90.50	359.63	9,524.66	4,523.89	159.98	4,526.70	0.00	0.00	0.00
14,000.00	90.50	359.63	9,523.79	4,623.88	159.33	4,626.62	0.00	0.00	0.00
14,100.00	90.50	359.63	9,522.92	4,723.87	158.69	4,726.54	0.00	0.00	0.00
14,206.13	90.50	359.63	9,522.00	4,830.00	158.00	4,832.58	0.00	0.00	0.00

TD 14206.13' MD; 9522.00' TVD



EOG Resources, Inc.

Survey Report

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Site: Osprey 10
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Design: Plan #1

Local Co-ordinate Reference: Well Osprey 10 #1H
TVD Reference: WELL @ 3363.00usft (3333' GL + 30' KB)
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North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target - Shape Osprey 10 #1H U Perf - plan misses target center by 157.50usft at 9450.94usft MD (9415.46 TVD, 130.84 N, 34.08 E) - Point	0.00	0.00	9,394.20	112.00	189.00	415,215.00	768,890.00	32° 8' 18.822 N	103° 27' 52.893 W
Osprey 10 #1H BHL - plan hits target center - Point	0.00	0.00	9,522.00	4,830.00	158.00	419,933.00	768,859.00	32° 9' 5.511 N	103° 27' 52.811 W
Osprey 10 #1H L Perf - plan misses target center by 6.14usft at 14100.00usft MD (9522.92 TVD, 4723.87 N, 158.68 E) - Point	0.00	0.00	9,522.87	4,730.00	159.00	419,833.00	768,860.00	32° 9' 4.521 N	103° 27' 52.609 W

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
	9523			L Perf
9083	9083	0	0	KOP, Build @ 12° DLS
9422	9394	112	29	U Perf
9837	9560	466	121	LP, Turn @ 3° DLS
10,336	9556	960	183	Hold 90.5° Inc @ 359.63° Azi
14,206	9522	4830	158	TD 14206.13' MD; 9522.00' TVD

Checked By: _____ Approved By: _____ Date: _____