



HOBBS OCD
MAY 29 2018
RECEIVED

Lea County, NM (NAD 83 NME)

Osprey 10 #301H

Plan #0.1

PROJECT DETAILS: Lea County, NM (NAD 83 NME)

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level

WELL DETAILS: #301H

KB = 25 @ 3358.5surf 3333.0
Northing 415148.00 Easting 509711.00 Latitude 32° 8' 18.043 N Longitude 103° 27' 58.640 W



Azimuths to Grid North
True North: -0.48°
Magnetic North: 6.34°

Magnetic Field
Strength: 47022.8nT
Dip Angle: 69.99°
Date: 5/24/2016
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 6.34°
To convert a Magnetic Direction to a True Direction, Add 6.30° East
To convert a True Direction to a Grid Direction, Subtract 0.48°

SECTION DETAILS

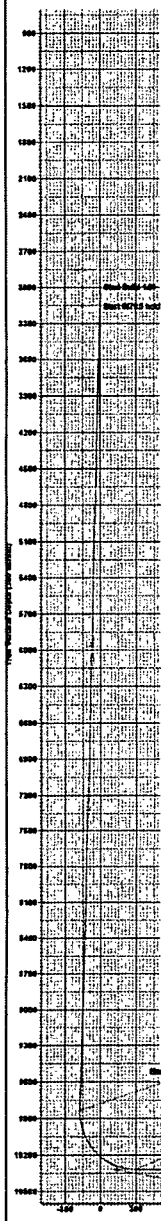
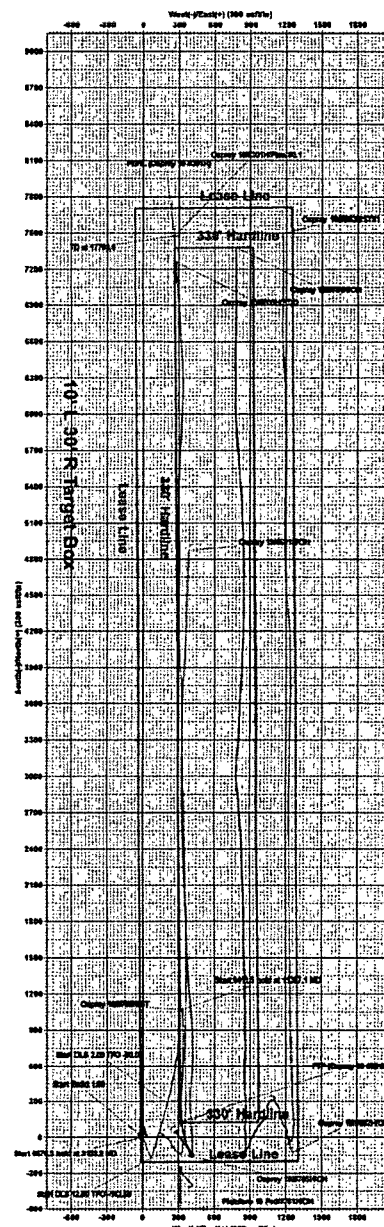
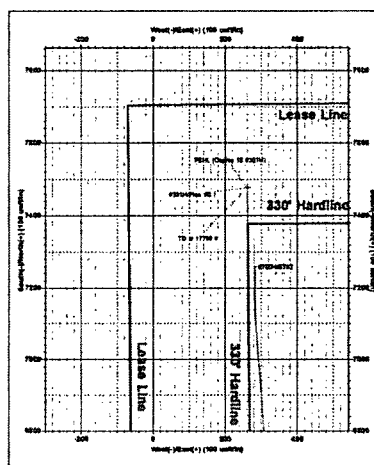
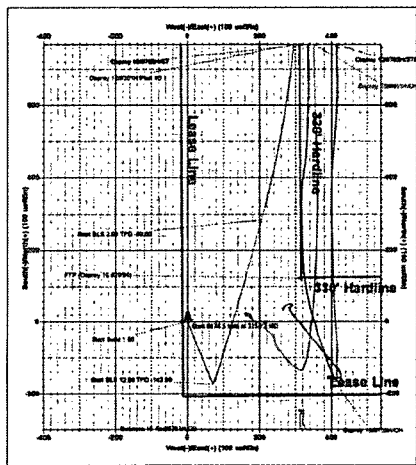
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dog	TFace	VSecl	Target	Annotation
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	6.0		
2	3000.0	0.00	0.00	3000.0	0.0	0.0	0.00	0.00	6.0		
3	3159.2	1.89	180.00	3159.2	-1.1	0.8	1.00	180.00	-3.0		
4	8534.7	1.89	180.00	8533.1	-174.0	70.3	0.00	0.00	-171.6		
6	10886.2	90.00	18.40	10321.0	234.0	298.0	12.00	-142.59	291.0		
6	11187.1	90.00	339.56	10321.0	1085.7	977.8	3.00	-60.00	1078.8		
7	17788.8	90.00	339.56	10321.0	7477.0	281.0	0.00	0.00	7481.6		PSBL (Osprey 10 #301H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
FTP (Osprey 10 #301H)	10321.0	134.0	318.0	416272.00	510628.00
PSBL (Osprey 10 #301H)	10321.0	7477.0	281.0	423826.00	509072.00



Vertical Section at 3.00° (300 surface)



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MAY 29 2018
RECEIVED

EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Osprey 10

#301H

OH

Plan: Plan #0.1

Standard Planning Report

24 May, 2018



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #301H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3358.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3358.0usft
Site:	Osprey 10	North Reference:	Grid
Well:	#301H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

Project	Lea County, NM (NAD 83 NME)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Osprey 10		
Site Position:	Map	Northing:	415,279.00 usft
From:		Easting:	811,315.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 8' 19.231 N
		Longitude:	103° 27' 39.974 W
		Grid Convergence:	0.46 °

Well	#301H		
Well Position	+N/-S	-131.0 usft	Northing:
	+E/-W	-1,604.0 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	Ground Level:
			3,333.0 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination
	IGRF2015	5/24/2018	6.80
			Dip Angle
			59.99
			Field Strength
			47,802.88993770

Design	Plan #0.1		
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
			(°)
			2.00

Plan Survey Tool Program	Date 5/24/2018		
Depth From	Depth To	Survey (Wellbore)	Tool Name
(usft)	(usft)		
1	0.0	17,798.4 Plan #0.1 (OH)	MWD
			OWSG MWD - Standard

Plan Sections											
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Dogleg	Build	Turn	TFO	Target	
Depth	(°)	(°)	Depth	(usft)	(usft)	Rate	Rate	Rate	(°)		
(usft)			(usft)			(°/100usft)	(°/100usft)	(°/100usft)			
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00		
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.00	0.00	0.00	0.00		
3,159.2	1.59	158.00	3,159.2	-2.1	0.8	1.00	1.00	0.00	158.00		
9,835.7	1.59	158.00	9,833.1	-174.0	70.3	0.00	0.00	0.00	0.00		
10,596.2	90.00	15.40	10,321.0	284.0	205.0	12.00	11.62	-18.75	-142.59		
11,387.1	90.00	359.58	10,321.0	1,065.7	307.8	2.00	0.00	-2.00	-90.00		
17,798.6	90.00	359.58	10,321.0	7,477.0	261.0	0.00	0.00	0.00	0.00	PBHL (Osprey 10 #30	



Planning Report

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Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3358.0usft
Site:	Osprey 10	North Reference:	Grid
Well:	#301H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

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)
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
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	1.00	158.00	3,100.0	-0.8	0.3	-0.8	1.00	1.00	0.00
3,159.2	1.59	158.00	3,159.2	-2.1	0.8	-2.0	1.00	1.00	0.00
3,200.0	1.59	158.00	3,200.0	-3.1	1.3	-3.1	0.00	0.00	0.00
3,300.0	1.59	158.00	3,299.9	-5.7	2.3	-5.6	0.00	0.00	0.00
3,400.0	1.59	158.00	3,399.9	-8.3	3.3	-8.1	0.00	0.00	0.00
3,500.0	1.59	158.00	3,499.8	-10.8	4.4	-10.7	0.00	0.00	0.00
3,600.0	1.59	158.00	3,599.8	-13.4	5.4	-13.2	0.00	0.00	0.00
3,700.0	1.59	158.00	3,699.8	-16.0	6.5	-15.7	0.00	0.00	0.00
3,800.0	1.59	158.00	3,799.7	-18.6	7.5	-18.3	0.00	0.00	0.00
3,900.0	1.59	158.00	3,899.7	-21.1	8.5	-20.8	0.00	0.00	0.00
4,000.0	1.59	158.00	3,999.7	-23.7	9.6	-23.4	0.00	0.00	0.00
4,100.0	1.59	158.00	4,099.6	-26.3	10.6	-25.9	0.00	0.00	0.00
4,200.0	1.59	158.00	4,199.6	-28.9	11.7	-28.4	0.00	0.00	0.00
4,300.0	1.59	158.00	4,299.5	-31.4	12.7	-31.0	0.00	0.00	0.00
4,400.0	1.59	158.00	4,399.5	-34.0	13.7	-33.5	0.00	0.00	0.00
4,500.0	1.59	158.00	4,499.5	-36.6	14.8	-36.0	0.00	0.00	0.00
4,600.0	1.59	158.00	4,599.4	-39.2	15.8	-38.6	0.00	0.00	0.00
4,700.0	1.59	158.00	4,699.4	-41.7	16.9	-41.1	0.00	0.00	0.00
4,800.0	1.59	158.00	4,799.3	-44.3	17.9	-43.7	0.00	0.00	0.00
4,900.0	1.59	158.00	4,899.3	-46.9	18.9	-46.2	0.00	0.00	0.00
5,000.0	1.59	158.00	4,999.3	-49.5	20.0	-48.7	0.00	0.00	0.00
5,100.0	1.59	158.00	5,099.2	-52.0	21.0	-51.3	0.00	0.00	0.00
5,200.0	1.59	158.00	5,199.2	-54.6	22.1	-53.8	0.00	0.00	0.00



Planning Report

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Site:	Osprey 10	North Reference:	Grid
Well:	#301H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

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	1.59	158.00	5,299.2	-57.2	23.1	-56.4	0.00	0.00	0.00
5,400.0	1.59	158.00	5,399.1	-59.8	24.1	-58.9	0.00	0.00	0.00
5,500.0	1.59	158.00	5,499.1	-62.3	25.2	-61.4	0.00	0.00	0.00
5,600.0	1.59	158.00	5,599.0	-64.9	26.2	-64.0	0.00	0.00	0.00
5,700.0	1.59	158.00	5,699.0	-67.5	27.3	-66.5	0.00	0.00	0.00
5,800.0	1.59	158.00	5,799.0	-70.1	28.3	-69.0	0.00	0.00	0.00
5,900.0	1.59	158.00	5,898.9	-72.6	29.3	-71.6	0.00	0.00	0.00
6,000.0	1.59	158.00	5,998.9	-75.2	30.4	-74.1	0.00	0.00	0.00
6,100.0	1.59	158.00	6,098.8	-77.8	31.4	-76.7	0.00	0.00	0.00
6,200.0	1.59	158.00	6,198.8	-80.4	32.5	-79.2	0.00	0.00	0.00
6,300.0	1.59	158.00	6,298.8	-83.0	33.5	-81.7	0.00	0.00	0.00
6,400.0	1.59	158.00	6,398.7	-85.5	34.5	-84.3	0.00	0.00	0.00
6,500.0	1.59	158.00	6,498.7	-88.1	35.6	-86.8	0.00	0.00	0.00
6,600.0	1.59	158.00	6,598.7	-90.7	36.6	-89.3	0.00	0.00	0.00
6,700.0	1.59	158.00	6,698.6	-93.3	37.7	-91.9	0.00	0.00	0.00
6,800.0	1.59	158.00	6,798.6	-95.8	38.7	-94.4	0.00	0.00	0.00
6,900.0	1.59	158.00	6,898.5	-98.4	39.8	-97.0	0.00	0.00	0.00
7,000.0	1.59	158.00	6,998.5	-101.0	40.8	-99.5	0.00	0.00	0.00
7,100.0	1.59	158.00	7,098.5	-103.6	41.8	-102.0	0.00	0.00	0.00
7,200.0	1.59	158.00	7,198.4	-106.1	42.9	-104.6	0.00	0.00	0.00
7,300.0	1.59	158.00	7,298.4	-108.7	43.9	-107.1	0.00	0.00	0.00
7,400.0	1.59	158.00	7,398.3	-111.3	45.0	-109.6	0.00	0.00	0.00
7,500.0	1.59	158.00	7,498.3	-113.9	46.0	-112.2	0.00	0.00	0.00
7,600.0	1.59	158.00	7,598.3	-116.4	47.0	-114.7	0.00	0.00	0.00
7,700.0	1.59	158.00	7,698.2	-119.0	48.1	-117.3	0.00	0.00	0.00
7,800.0	1.59	158.00	7,798.2	-121.6	49.1	-119.8	0.00	0.00	0.00
7,900.0	1.59	158.00	7,898.1	-124.2	50.2	-122.3	0.00	0.00	0.00
8,000.0	1.59	158.00	7,998.1	-126.7	51.2	-124.9	0.00	0.00	0.00
8,100.0	1.59	158.00	8,098.1	-129.3	52.2	-127.4	0.00	0.00	0.00
8,200.0	1.59	158.00	8,198.0	-131.9	53.3	-130.0	0.00	0.00	0.00
8,300.0	1.59	158.00	8,298.0	-134.5	54.3	-132.5	0.00	0.00	0.00
8,400.0	1.59	158.00	8,398.0	-137.0	55.4	-135.0	0.00	0.00	0.00
8,500.0	1.59	158.00	8,497.9	-139.6	56.4	-137.6	0.00	0.00	0.00
8,600.0	1.59	158.00	8,597.9	-142.2	57.4	-140.1	0.00	0.00	0.00
8,700.0	1.59	158.00	8,697.8	-144.8	58.5	-142.6	0.00	0.00	0.00
8,800.0	1.59	158.00	8,797.8	-147.3	59.5	-145.2	0.00	0.00	0.00
8,900.0	1.59	158.00	8,897.8	-149.9	60.6	-147.7	0.00	0.00	0.00
9,000.0	1.59	158.00	8,997.7	-152.5	61.6	-150.3	0.00	0.00	0.00
9,100.0	1.59	158.00	9,097.7	-155.1	62.6	-152.8	0.00	0.00	0.00
9,200.0	1.59	158.00	9,197.6	-157.6	63.7	-155.3	0.00	0.00	0.00
9,300.0	1.59	158.00	9,297.6	-160.2	64.7	-157.9	0.00	0.00	0.00
9,400.0	1.59	158.00	9,397.6	-162.8	65.8	-160.4	0.00	0.00	0.00
9,500.0	1.59	158.00	9,497.5	-165.4	66.8	-162.9	0.00	0.00	0.00
9,600.0	1.59	158.00	9,597.5	-168.0	67.8	-165.5	0.00	0.00	0.00
9,700.0	1.59	158.00	9,697.5	-170.5	68.9	-168.0	0.00	0.00	0.00
9,800.0	1.59	158.00	9,797.4	-173.1	69.9	-170.6	0.00	0.00	0.00
9,835.7	1.59	158.00	9,833.1	-174.0	70.3	-171.5	0.00	0.00	0.00
9,850.0	1.07	80.17	9,847.4	-174.2	70.5	-171.6	12.00	-3.65	-542.96
9,875.0	3.59	31.01	9,872.4	-173.5	71.1	-170.9	12.00	10.08	-196.61
9,900.0	6.53	23.88	9,897.3	-171.5	72.1	-168.9	12.00	11.76	-28.52
9,925.0	9.50	21.19	9,922.0	-168.3	73.4	-165.6	12.00	11.91	-10.79
9,950.0	12.49	19.77	9,946.6	-163.8	75.1	-161.1	12.00	11.95	-5.67
9,975.0	15.49	18.89	9,970.8	-158.1	77.1	-155.3	12.00	11.97	-3.51
10,000.0	18.48	18.29	9,994.7	-151.2	79.4	-148.3	12.00	11.98	-2.39



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #301H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3358.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3358.0usft
Site:	Osprey 10	North Reference:	Grid
Well:	#301H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

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)
10,025.0	21.48	17.86	10,018.2	-143.1	82.1	-140.1	12.00	11.99	-1.74
10,050.0	24.47	17.53	10,041.2	-133.8	85.0	-130.7	12.00	11.99	-1.33
10,075.0	27.47	17.26	10,063.7	-123.3	88.3	-120.2	12.00	11.99	-1.06
10,100.0	30.47	17.04	10,085.6	-111.8	91.9	-108.5	12.00	11.99	-0.87
10,125.0	33.47	16.86	10,106.8	-99.1	95.7	-95.7	12.00	11.99	-0.72
10,150.0	36.47	16.71	10,127.3	-85.4	99.9	-81.8	12.00	11.99	-0.62
10,175.0	39.47	16.57	10,147.0	-70.6	104.3	-67.0	12.00	12.00	-0.54
10,200.0	42.46	16.46	10,165.9	-54.9	108.9	-51.1	12.00	12.00	-0.47
10,225.0	45.46	16.35	10,183.8	-38.3	113.8	-34.3	12.00	12.00	-0.42
10,250.0	48.46	16.26	10,200.9	-20.7	119.0	-16.6	12.00	12.00	-0.38
10,275.0	51.46	16.17	10,217.0	-2.4	124.3	2.0	12.00	12.00	-0.35
10,300.0	54.46	16.09	10,232.0	16.8	129.8	21.3	12.00	12.00	-0.32
10,325.0	57.46	16.02	10,246.0	36.7	135.6	41.4	12.00	12.00	-0.30
10,350.0	60.46	15.95	10,258.9	57.3	141.5	62.2	12.00	12.00	-0.28
10,375.0	63.46	15.88	10,270.7	78.5	147.5	83.6	12.00	12.00	-0.26
10,400.0	66.46	15.82	10,281.3	100.3	153.7	105.6	12.00	12.00	-0.25
10,425.0	69.46	15.76	10,290.6	122.6	160.0	128.1	12.00	12.00	-0.24
10,450.0	72.46	15.71	10,298.8	145.3	166.4	151.1	12.00	12.00	-0.23
10,475.0	75.46	15.65	10,305.7	168.5	172.9	174.4	12.00	12.00	-0.22
FTP (Osprey 10 #301H)									
10,500.0	78.46	15.60	10,311.3	191.9	179.5	198.1	12.00	12.00	-0.21
10,525.0	81.46	15.55	10,315.7	215.6	186.1	222.0	12.00	12.00	-0.21
10,550.0	84.46	15.49	10,318.8	239.5	192.7	246.1	12.00	12.00	-0.21
10,575.0	87.46	15.44	10,320.5	263.6	199.4	270.4	12.00	12.00	-0.20
10,596.2	90.00	15.40	10,321.0	284.0	205.0	291.0	12.00	12.00	-0.20
10,600.0	90.00	15.32	10,321.0	287.7	206.0	294.7	2.00	0.00	-2.00
10,700.0	90.00	13.32	10,321.0	384.5	230.7	392.4	2.00	0.00	-2.00
10,800.0	90.00	11.32	10,321.0	482.2	252.1	490.7	2.00	0.00	-2.00
10,900.0	90.00	9.32	10,321.0	580.6	270.0	589.7	2.00	0.00	-2.00
11,000.0	90.00	7.32	10,321.0	679.6	284.5	689.1	2.00	0.00	-2.00
11,100.0	90.00	5.32	10,321.0	778.9	295.5	788.8	2.00	0.00	-2.00
11,200.0	90.00	3.32	10,321.0	878.7	303.0	888.7	2.00	0.00	-2.00
11,300.0	90.00	1.32	10,321.0	978.6	307.1	988.7	2.00	0.00	-2.00
11,387.1	90.00	359.58	10,321.0	1,065.7	307.8	1,075.8	2.00	0.00	-2.00
11,400.0	90.00	359.58	10,321.0	1,078.6	307.7	1,088.6	0.00	0.00	0.00
11,500.0	90.00	359.58	10,321.0	1,178.6	307.0	1,188.5	0.00	0.00	0.00
11,600.0	90.00	359.58	10,321.0	1,278.6	306.2	1,288.5	0.00	0.00	0.00
11,700.0	90.00	359.58	10,321.0	1,378.6	305.5	1,388.4	0.00	0.00	0.00
11,800.0	90.00	359.58	10,321.0	1,478.5	304.8	1,488.3	0.00	0.00	0.00
11,900.0	90.00	359.58	10,321.0	1,578.5	304.0	1,588.2	0.00	0.00	0.00
12,000.0	90.00	359.58	10,321.0	1,678.5	303.3	1,688.1	0.00	0.00	0.00
12,100.0	90.00	359.58	10,321.0	1,778.5	302.6	1,788.0	0.00	0.00	0.00
12,200.0	90.00	359.58	10,321.0	1,878.5	301.9	1,887.9	0.00	0.00	0.00
12,300.0	90.00	359.58	10,321.0	1,978.5	301.1	1,987.8	0.00	0.00	0.00
12,400.0	90.00	359.58	10,321.0	2,078.5	300.4	2,087.7	0.00	0.00	0.00
12,500.0	90.00	359.58	10,321.0	2,178.5	299.7	2,187.7	0.00	0.00	0.00
12,600.0	90.00	359.58	10,321.0	2,278.5	298.9	2,287.6	0.00	0.00	0.00
12,700.0	90.00	359.58	10,321.0	2,378.5	298.2	2,387.5	0.00	0.00	0.00
12,800.0	90.00	359.58	10,321.0	2,478.5	297.5	2,487.4	0.00	0.00	0.00
12,900.0	90.00	359.58	10,321.0	2,578.5	296.7	2,587.3	0.00	0.00	0.00
13,000.0	90.00	359.58	10,321.0	2,678.5	296.0	2,687.2	0.00	0.00	0.00
13,100.0	90.00	359.58	10,321.0	2,778.5	295.3	2,787.1	0.00	0.00	0.00
13,200.0	90.00	359.58	10,321.0	2,878.5	294.6	2,887.0	0.00	0.00	0.00



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #301H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3358.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3358.0usft
Site:	Osprey 10	North Reference:	Grid
Well:	#301H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

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)
13,300.0	90.00	359.58	10,321.0	2,978.5	293.8	2,986.9	0.00	0.00	0.00
13,400.0	90.00	359.58	10,321.0	3,078.5	293.1	3,086.9	0.00	0.00	0.00
13,500.0	90.00	359.58	10,321.0	3,178.5	292.4	3,186.8	0.00	0.00	0.00
13,600.0	90.00	359.58	10,321.0	3,278.5	291.6	3,286.7	0.00	0.00	0.00
13,700.0	90.00	359.58	10,321.0	3,378.5	290.9	3,386.6	0.00	0.00	0.00
13,800.0	90.00	359.58	10,321.0	3,478.5	290.2	3,486.5	0.00	0.00	0.00
13,900.0	90.00	359.58	10,321.0	3,578.5	289.4	3,586.4	0.00	0.00	0.00
14,000.0	90.00	359.58	10,321.0	3,678.5	288.7	3,686.3	0.00	0.00	0.00
14,100.0	90.00	359.58	10,321.0	3,778.5	288.0	3,786.2	0.00	0.00	0.00
14,200.0	90.00	359.58	10,321.0	3,878.5	287.3	3,886.1	0.00	0.00	0.00
14,300.0	90.00	359.58	10,321.0	3,978.5	286.5	3,986.1	0.00	0.00	0.00
14,400.0	90.00	359.58	10,321.0	4,078.5	285.8	4,086.0	0.00	0.00	0.00
14,500.0	90.00	359.58	10,321.0	4,178.5	285.1	4,185.9	0.00	0.00	0.00
14,600.0	90.00	359.58	10,321.0	4,278.5	284.3	4,285.8	0.00	0.00	0.00
14,700.0	90.00	359.58	10,321.0	4,378.5	283.6	4,385.7	0.00	0.00	0.00
14,800.0	90.00	359.58	10,321.0	4,478.5	282.9	4,485.6	0.00	0.00	0.00
14,900.0	90.00	359.58	10,321.0	4,578.5	282.2	4,585.5	0.00	0.00	0.00
15,000.0	90.00	359.58	10,321.0	4,678.5	281.4	4,685.4	0.00	0.00	0.00
15,100.0	90.00	359.58	10,321.0	4,778.5	280.7	4,785.3	0.00	0.00	0.00
15,200.0	90.00	359.58	10,321.0	4,878.5	280.0	4,885.3	0.00	0.00	0.00
15,300.0	90.00	359.58	10,321.0	4,978.5	279.2	4,985.2	0.00	0.00	0.00
15,400.0	90.00	359.58	10,321.0	5,078.5	278.5	5,085.1	0.00	0.00	0.00
15,500.0	90.00	359.58	10,321.0	5,178.4	277.8	5,185.0	0.00	0.00	0.00
15,600.0	90.00	359.58	10,321.0	5,278.4	277.0	5,284.9	0.00	0.00	0.00
15,700.0	90.00	359.58	10,321.0	5,378.4	276.3	5,384.8	0.00	0.00	0.00
15,800.0	90.00	359.58	10,321.0	5,478.4	275.6	5,484.7	0.00	0.00	0.00
15,900.0	90.00	359.58	10,321.0	5,578.4	274.9	5,584.6	0.00	0.00	0.00
16,000.0	90.00	359.58	10,321.0	5,678.4	274.1	5,684.5	0.00	0.00	0.00
16,100.0	90.00	359.58	10,321.0	5,778.4	273.4	5,784.5	0.00	0.00	0.00
16,200.0	90.00	359.58	10,321.0	5,878.4	272.7	5,884.4	0.00	0.00	0.00
16,300.0	90.00	359.58	10,321.0	5,978.4	271.9	5,984.3	0.00	0.00	0.00
16,400.0	90.00	359.58	10,321.0	6,078.4	271.2	6,084.2	0.00	0.00	0.00
16,500.0	90.00	359.58	10,321.0	6,178.4	270.5	6,184.1	0.00	0.00	0.00
16,600.0	90.00	359.58	10,321.0	6,278.4	269.7	6,284.0	0.00	0.00	0.00
16,700.0	90.00	359.58	10,321.0	6,378.4	269.0	6,383.9	0.00	0.00	0.00
16,800.0	90.00	359.58	10,321.0	6,478.4	268.3	6,483.8	0.00	0.00	0.00
16,900.0	90.00	359.58	10,321.0	6,578.4	267.6	6,583.7	0.00	0.00	0.00
17,000.0	90.00	359.58	10,321.0	6,678.4	266.8	6,683.7	0.00	0.00	0.00
17,100.0	90.00	359.58	10,321.0	6,778.4	266.1	6,783.6	0.00	0.00	0.00
17,200.0	90.00	359.58	10,321.0	6,878.4	265.4	6,883.5	0.00	0.00	0.00
17,300.0	90.00	359.58	10,321.0	6,978.4	264.6	6,983.4	0.00	0.00	0.00
17,400.0	90.00	359.58	10,321.0	7,078.4	263.9	7,083.3	0.00	0.00	0.00
17,500.0	90.00	359.58	10,321.0	7,178.4	263.2	7,183.2	0.00	0.00	0.00
17,600.0	90.00	359.58	10,321.0	7,278.4	262.4	7,283.1	0.00	0.00	0.00
17,700.0	90.00	359.58	10,321.0	7,378.4	261.7	7,383.0	0.00	0.00	0.00
17,798.6	90.00	359.58	10,321.0	7,477.0	261.0	7,481.6	0.00	0.00	0.00
PBHL (Osprey 10 #301H)									



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #301H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3358.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3358.0usft
Site:	Osprey 10	North Reference:	Grid
Well:	#301H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

Design Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
- Shape									
FTP (Osprey 10 #301H)	0.00	0.00	10,321.0	124.0	315.0	415,272.00	810,026.00	32° 8' 19.265 N	103° 27' 54.966 W
- plan misses target center by 149.7usft at 10475.0usft MD (10305.7 TVD, 168.5 N, 172.9 E)									
- Point									
PBHL (Osprey 10 #301H)	0.00	0.00	10,321.0	7,477.0	261.0	422,625.00	809,972.00	32° 9' 32.028 N	103° 27' 54.904 W
- plan hits target center									
- Point									

EOG RESOURCES, INC.
OSPREY 10 #301H

Hydrogen Sulfide Plan Summary

- A. All personnel shall receive proper H₂S training in accordance with Onshore Order III.C.3.a.
- B. Briefing Area: two perpendicular areas will be designated by signs and readily accessible.
- C. Required Emergency Equipment:

- Well control equipment
 - a. Flare line 150' from wellhead to be ignited by flare gun.
 - b. Choke manifold with a remotely operated choke.
 - c. Mud/gas separator
- Protective equipment for essential personnel.

Breathing apparatus:

- a. Rescue Packs (SCBA) — 1 unit shall be placed at each breathing area, 2 shall be stored in the safety trailer.
- b. Work/Escapes packs — 4 packs shall be stored on the rig floor with sufficient air hose not to restrict work activity.
- c. Emergency Escape Packs — 4 packs shall be stored in the doghouse for emergency evacuation.

Auxiliary Rescue Equipment:

- a. Stretcher
- b. Two OSHA full body harness
- c. 100 ft 5/8 inch OSHA approved rope
- d. 1-20# class ABC fire extinguisher

- H₂S detection and monitoring equipment:

The stationary detector with three sensors will be placed in the upper dog house if equipped, set to visually alarm @ 10 ppm and audible @ 14 ppm. Calibrate a minimum of every 30 days or as needed. The sensors will be placed in the following places: Rig floor / Bell nipple / End of flow line or where well bore fluid is being discharged.

(Gas sample tubes will be stored in the safety trailer)

- Visual warning systems.
 - a. One color code condition sign will be placed at the entrance to the site reflecting the possible conditions at the site.
 - b. A colored condition flag will be on display, reflecting the current condition at the site at the time.
 - c. Two wind socks will be placed in strategic locations, visible from all angles.

EOG RESOURCES, INC.
OSPREY 10 #301H

- **Mud program:**
The mud program has been designed to minimize the volume of H₂S circulated to surface. The operator will have the necessary mud products to minimize hazards while drilling in H₂S bearing zones.
- **Metallurgy:**
All drill strings, casings, tubing, wellhead, blowout preventer, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H₂S service.
- **Communication:**
Communication will be via cell phones and land lines where available.

EOG RESOURCES, INC.
OSPREY 10 #301H

Emergency Assistance Telephone List

PUBLIC SAFETY: **911 or**

Lea County Sheriff's Department (575) 396-3611

Rod Coffman

Fire Department:

Carlsbad (575) 885-3125

Artesia (575) 746-5050

Hospitals:

Carlsbad (575) 887-4121

Artesia (575) 748-3333

Hobbs (575) 392-1979

Dept. of Public Safety/Carlsbad (575) 748-9718

Highway Department (575) 885-3281

New Mexico Oil Conservation (575) 476-3440

U.S. Dept. of Labor (575) 887-1174

EOG Resources, Inc.

EOG / Midland Office (432) 686-3600

Company Drilling Consultants:

David Dominique Cell (985) 518-5839

Mike Vann Cell (817) 980-5507

Drilling Engineer

Steve Munsell Office (432) 686-3609

Cell (432) 894-1256

Drilling Manager

Floyd Hernandez Office (432) 686-3716

Cell (817) 682-4569

Drilling Superintendent

Jason Fitzgerald Office (432) 848-9029

Cell (318) 347-3916

H&P Drilling

H&P Drilling Office (432) 563-5757

H&P 651 Drilling Rig Rig (903) 509-7131

Tool Pusher:

Johnathan Craig Cell (817) 760-6374

Brad Garrett

Safety

Brian Chandler (HSE Manager) Office (432) 686-3695

Cell (817) 239-0251