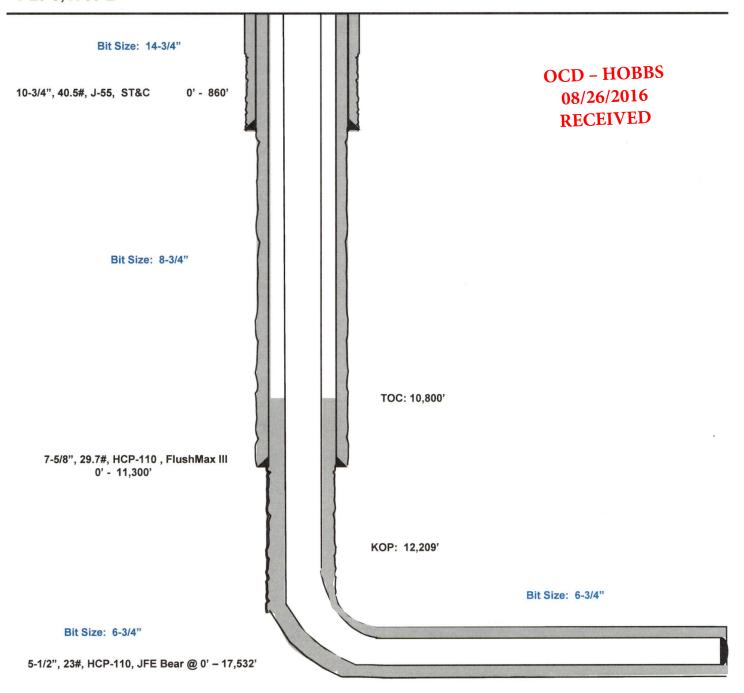
### Ophelia 27 #709H

1786' FNL 450' FEL Section 27 T-26-S, R-33-E

### Lea County, New Mexico Proposed Wellbore

API: 30-025-\*\*\*\*

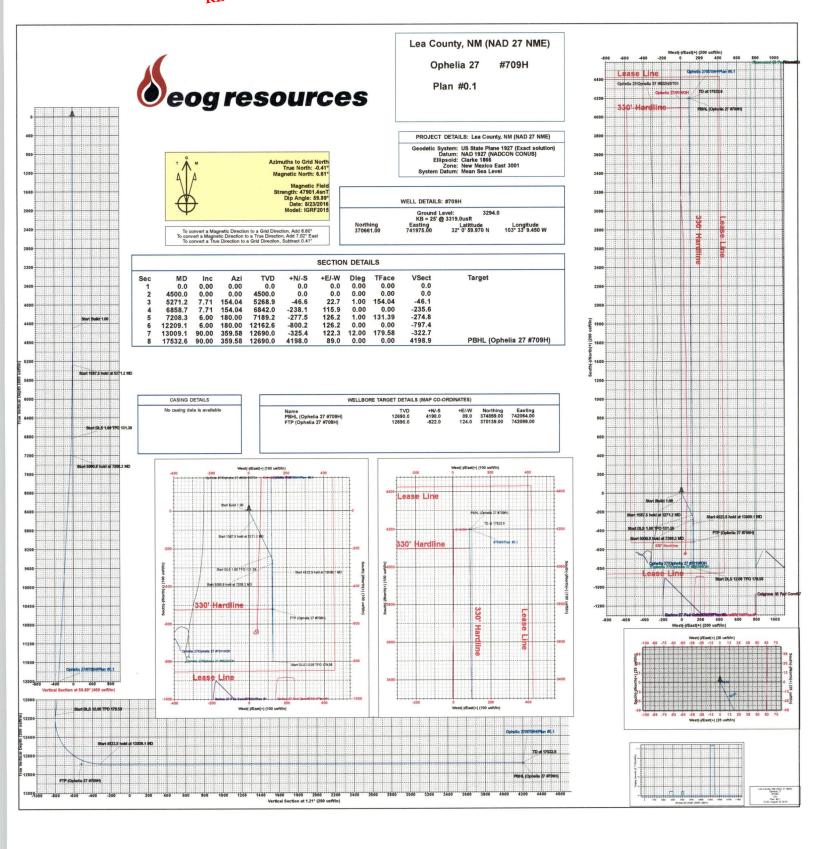
KB: 3,319' GL: 3,294'



Lateral: 17,532' MD, 12,690' TVD

BH Location: 2410' FSL & 330' FEL

Section 22 T-26-S, R-33-E





### **EOG Resources - Midland**

Lea County, NM (NAD 27 NME) Ophelia 27 #709H

OH

Plan: Plan #0.1

### **Standard Planning Report**

23 August, 2016



#### EOG Resources, Inc.

#### Planning Report

Database: Company: EDM 5000.1 Single User Db EOG Resources - Midland

Project: Site:

Lea County, NM (NAD 27 NME) Ophelia 27

Well: #709H Wellbore: OH Design: Plan #0.1 Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference:

**Survey Calculation Method:** 

Well #709H

KB = 25' @ 3319.0usft KB = 25' @ 3319.0usft

Minimum Curvature

**Project** 

Lea County, NM (NAD 27 NME)

Map System:

US State Plane 1927 (Exact solution)

NAD 1927 (NADCON CONUS)

Geo Datum: Map Zone:

New Mexico East 3001

System Datum:

Mean Sea Level

Site Ophelia 27

Site Position:

**Well Position** 

Map

Northing: Easting:

370,025.00 usft 741,483.00 usft

Latitude:

Longitude:

32° 0' 53.711 N 103° 33' 15.217 W

**Position Uncertainty:** 

0.0 usft

Slot Radius:

13-3/16 "

**Grid Convergence:** 

0.41

Well #709H

+N/-S +E/-W

636.0 usft 492 0 usft Northing: Easting:

370,661.00 usft 741,975.00 usft Latitude: Longitude:

32° 0' 59.970 N 103° 33' 9.450 W

**Position Uncertainty** 

0.0 usft

Wellhead Elevation:

8/23/2016

0.0 usft

**Ground Level:** 

3,294.0 usft

Wellbore

OH

**Magnetics Model Name** 

Sample Date

Declination (°)

**Dip Angle** (°)

Field Strength (nT)

47,901

Design

Plan #0.1

**Audit Notes:** 

Version:

Phase: Depth From (TVD)

**IGRF2015** 

PLAN

Tie On Depth:

7.02

0.0

59.89

Vertical Section:

(usft) 0.0

+N/-S (usft) 0.0

+E/-W (usft) 0.0

Direction (°)

1.21

**Plan Sections** Vertical Dogleg Build Turn Measured Inclination Depth +N/-S +E/-W Rate Rate Rate TFO Depth Azimuth (°/100usft) (°/100usft) (°/100usft) (usft) **Target** (usft) (°) (°) (usft) (usft) (°) 0.0 0.00 0.00 0.00 0.00 0.00 0.00 0.0 0.0 0.0 0.00 0.00 0.00 0.00 4,500.0 0.0 0.0 0.00 4,500.0 0.00 1.00 0.00 154.04 227 1.00 5,271.2 7.71 154.04 5,268.9 -46.6 0.00 0.00 0.00 115.9 0.00 6,858.7 7.71 154.04 6,842.0 -238.1 131.39 126.2 -0.49 7.42 7,208.3 6.00 180.00 7,189.2 -277.5 1.00 0.00 0.00 0.00 12,209.1 6.00 180.00 12,162.6 -800.2 126.2 0.00 10.50 22 45 179.58 13,009.1 90.00 359.58 12,690.0 -325.4 122.3 12.00 0.00 0.00 PBHL (Ophelia 27 #70 17,532.6 90.00 359.58 12,690.0 4,198.0 89.0 0.00 0.00

# eog resources

#### **EOG Resources, Inc.**

Planning Report

Database: Company: EDM 5000.1 Single User Db EOG Resources - Midland Lea County, NM (NAD 27 NME)

Project: Site:

Ophelia 27 #709H Well: ОН Wellbore:

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference: Survey Calculation Method: Well #709H

KB = 25' @ 3319.0usft KB = 25' @ 3319.0usft

Grid

ellbore: esign:		OH Plan #0.1									
lanned Surve	y										
Measu Dep (ust	th	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	
					0.0	0.0	0.0	0.00	0.00	0.00	
	0.000,	0.00	0.00	1,000.0			0.0	0.00	0.00	0.00	
	,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
	,200.0	0.00	0.00	1,200.0	0.0	0.0				0.00	
	300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00 0.00	0.00 0.00	0.00	
1,	,400.0	0.00	0.00	1,400.0	0.0						
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,	0.008,	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	
	,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
	200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
	300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
	,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	
	,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00	
		0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00	
	,700.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00	
	,800.0 ,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00	
									0.00	0.00	
	,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00		0.00	
	,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
	,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00		
	,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
	,400.0	0.00	0.00	3,400.0							
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	
	,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	
	,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
	,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
	,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
	,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	
	,600.0	1.00	154.04	4,600.0	-0.8	0.4	-0.8	1.00	1.00	0.00	
	,700.0	2.00	154.04	4,700.0	-3.1	1.5	-3.1	1.00	1.00	0.00	
	,800.0	3.00	154.04	4,799.9	-7.1	3.4	-7.0	1.00	1.00	0.00	
	,900.0	4.00	154.04	4,899.7	-12.5	6.1	-12.4	1.00	1.00	0.00	
	,000.0	5.00	154.04	4,999.4	-19.6	9.5	-19.4	1.00	1.00	0.00	
	,100.0	6.00	154.04	5,098.9	-28.2	13.7	-27.9	1.00	1.00	0.00	
	,200.0	7.00	154.04	5,198.3	-38.4	18.7	-38.0	1.00	1.00	0.00	
	,271.2	7.00	154.04	5,268.9	-46.6	22.7	-46.1	1.00	1.00	0.00	

# eog resources

#### **EOG Resources, Inc.**

Planning Report

Database: Company: Project:

Wellbore:

EDM 5000.1 Single User Db EOG Resources - Midland Lea County, NM (NAD 27 NME)

Site: Well:

Ophelia 27 #709H OH Plan #0.1 Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well #709H

KB = 25' @ 3319.0usft KB = 25' @ 3319.0usft

Grid

elibore: esign:	Plan #0.1				i de la comp			entry section of the section of	
anned Survey	F								
Measured Depth	Inclination	Azimuth	Vertical Depth +N/-S +E/-W			Vertical Section	Dogleg Rate	Build Rate	Turn Rate
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)
5,300.0	7.71	154.04	5,297.4	-50.1	24.4	-49.5	0.00	0.00	0.00
5,400.0	7.71	154.04	5,396.5	-62.1	30.2	-61.5	0.00	0.00	0.00
5,500.0	7.71	154.04	5,495.6	-74.2	36.1	-73.4	0.00	0.00	0.00
5,600.0	7.71	154.04	5,594.7	-86.3	42.0	-85.4	0.00	0.00	0.00
5,700.0	7.71	154.04	5,693.8	-98.3	47.9	-97.3	0.00	0.00	0.00
5,800.0	7.71	154.04	5,792.9	-110.4	53.7	-109.2	0.00	0.00	0.00
5,900.0	7.71	154.04	5,892.0	-122.5	59.6	-121.2	0.00	0.00	0.00
6,000.0	7.71	154.04	5,991.1	-134.5	65.5	-133.1	0.00	0.00	0.00
	7.71	154.04	6,090.2	-146.6	71.4	-145.0	0.00	0.00	0.00
6,100.0		154.04	6,189.3	-158.7	77.2	-157.0	0.00	0.00	0.00
6,200.0	7.71 7.71	154.04	6,288.4	-170.7	83.1	-168.9	0.00	0.00	0.00
6,300.0									
6,400.0	7.71	154.04	6,387.5	-182.8	89.0	-180.9	0.00	0.00	0.00
6,500.0		154.04	6,486.6	-194.9	94.9	-192.8	0.00	0.00	0.00
6,600.0		154.04	6,585.7	-206.9	100.7	-204.7	0.00	0.00	0.00
6,700.0		154.04	6,684.8	-219.0	106.6	-216.7	0.00	0.00	0.00
6,800.0	7.71	154.04	6,783.8	-231.0	112.5	-228.6	0.00	0.00	0.00
6,858.7	7.71	154.04	6,842.0	-238.1	115.9	-235.6	0.00	0.00	0.00
6,900.0		156.44	6,883.0	-243.1	118.2	-240.5	1.00	-0.65	5.79
7,000.0		162.95	6,982.2	-254.7	122.6	-252.1	1.00	-0.59	6.52
7,100.0		170.57	7,081.5	-265.9	125.2	-263.2	1.00	-0.48	7.61
7,100.0		180.00	7,189.2	-277.5	126.2	-274.8	1.00	-0.35	8.71
		180.00	7 200 4	-287.1	126.2	-284.3	0.00	0.00	0.00
7,300.0		180.00	7,280.4	-297.5	126.2	-294.8	0.00	0.00	0.00
7,400.0		180.00	7,379.8			-305.2	0.00	0.00	0.00
7,500.0		180.00	7,479.3	-308.0	126.2	-315.7	0.00	0.00	0.00
7,600.0		180.00	7,578.7	-318.4	126.2		0.00	0.00	0.00
7,700.0	6.00	180.00	7,678.2	-328.9	126.2	-326.2			
7,800.0	6.00	180.00	7,777.6	-339.4	126.2	-336.6	0.00	0.00	0.00
7,900.0	6.00	180.00	7,877.1	-349.8	126.2	-347.1	0.00	0.00	0.00
8,000.0	6.00	180.00	7,976.5	-360.3	126.2	-357.5	0.00	0.00	0.00
8,100.0	6.00	180.00	8,076.0	-370.7	126.2	-368.0	0.00	0.00	0.00
8,200.0	6.00	180.00	8,175.5	-381.2	126.2	-378.4	0.00	0.00	0.00
8,300.0	6.00	180.00	8,274.9	-391.6	126.2	-388.9	0.00	0.00	0.00
8,400.0		180.00	8,374.4	-402.1	126.2	-399.3	0.00	0.00	0.00
8,500.0		180.00	8,473.8	-412.5	126.2	-409.8	0.00	0.00	0.00
8,600.0		180.00	8,573.3	-423.0	126.2	-420.2	0.00	0.00	0.00
8,700.0		180.00	8,672.7	-433.4	126.2	-430.7	0.00	0.00	0.00
0.0		180.00	8,772.2	-443.9	126.2	-441.1	0.00	0.00	0.00
8,800.0		180.00	8,871.6	-443.9 -454.3	126.2	-451.6	0.00	0.00	0.00
8,900.0		180.00		-454.3 -464.8	126.2	-462.0	0.00	0.00	0.00
9,000.0			8,971.1	-404.0 -475.2	126.2	-472.5	0.00	0.00	0.00
9,100.0 9,200.0		180.00 180.00	9,070.5 9,170.0	-475.2 -485.7	126.2	-482.9	0.00	0.00	0.00
9,300.0		180.00	9,269.4	-496.1	126.2	-493.4	0.00	0.00	0.00
9,400.0		180.00	9,368.9	-506.6	126.2	-503.8	0.00	0.00	0.00
9,500.0		180.00	9,468.3	-517.1	126.2	-514.3	0.00	0.00	0.00
9,600.0		180.00	9,567.8	-527.5	126.2	-524.7	0.00	0.00	0.00
9,700.0	6.00	180.00	9,667.2	-538.0	126.2	-535.2	0.00	0.00	0.00
9,800.0	6.00	180.00	9,766.7	-548.4	126.2	-545.6	0.00	0.00	0.00
9,900.0	6.00	180.00	9,866.1	-558.9	126.2	-556.1	0.00	0.00	0.00
10,000.0	6.00	180.00	9,965.6	-569.3	126.2	-566.5	0.00	0.00	0.00
10,100.0	6.00	180.00	10,065.0	-579.8	126.2	-577.0	0.00	0.00	0.00
10,200.0		180.00	10,164.5	-590.2	126.2	-587.4	0.00	0.00	0.00
10,300.0	6.00	180.00	10,263.9	-600.7	126.2	-597.9	0.00	0.00	0.00
10,400.0		180.00	10,363.4	-611.1	126.2	-608.3	0.00	0.00	0.00
10,500.0		180.00	10,462.9	-621.6	126.2	-618.8	0.00	0.00	0.00

# **S**eog resources

#### **EOG Resources, Inc.**

Planning Report

Database: Company: EDM 5000.1 Single User Db EOG Resources - Midland Lea County, NM (NAD 27 NME)

Project: Lea County
Site: Ophelia 27

 Well:
 #709H

 Wellbore:
 OH

 Design:
 Plan #0.1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well #709H

KB = 25' @ 3319.0usft KB = 25' @ 3319.0usft

Grid

n:	Plan #0.1			SATE					
ned Survey									
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Vertical Section	Dogleg Rate	Build Rate	Turn Rate
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)
10,600.0	6.00	180.00	10,562.3	-632.0	126.2	-629.2	0.00	0.00	0.00
10,700.0	6.00	180.00	10,661.8	-642.5	126.2	-639.7	0.00	0.00	0.00
10,800.0	6.00	180.00	10,761.2	-652.9	126.2	-650.1	0.00	0.00	0.00
10,900.0	6.00	180.00	10,860.7	-663.4	126.2	-660.6	0.00	0.00	0.00
11,000.0	6.00	180.00	10,960.1	-673.8	126.2	-671.0	0.00	0.00	0.00
11,100.0	6.00	180.00	11,059.6	-684.3	126.2	-681.5	0.00	0.00	0.00
11,200.0	6.00	180.00	11,159.0	-694.7	126.2	-691.9	0.00	0.00	0.00
11,300.0	6.00	180.00	11,258.5	-705.2	126.2	-702.4	0.00	0.00	0.00
11,400.0	6.00	180.00	11,357.9	-715.7	126.2	-712.8	0.00	0.00	0.00
11,500.0	6.00	180.00	11,457.4	-726.1	126.2	-723.3	0.00	0.00	0.00
11,600.0	6.00	180.00	11,556.8	-736.6	126.2	-733.7	0.00	0.00	0.00
11,700.0	6.00	180.00	11,656.3	-747.0	126.2	-744.2	0.00	0.00	0.00
11,800.0	6.00	180.00	11,755.7	-757.5	126.2	-754.6	0.00	0.00	0.00
11,900.0	6.00	180.00	11,855.2	-767.9	126.2	-765.1	0.00	0.00	0.00
12,000.0	6.00	180.00	11,954.6	-778.4	126.2	-775.5	0.00	0.00	0.00
12,100.0	6.00	180.00	12,054.1	-788.8	126.2	-786.0	0.00	0.00	0.00
12,209.1	6.00	180.00	12,162.6	-800.2	126.2	-797.4	0.00	0.00	0.00
12,225.0	4.09	180.20	12,178.4	-801.6	126.2	-798.8	12.00	-12.00	1.24
12,250.0	1.09	181.90	12,203.4	-802.8	126.2	-799.9	12.00	-12.00	6.81
12,275.0	1.91	358.25	12,228.4	-802.6	126.2	-799.7	12.00	3.25	705.39
12,300.0	4.91	359.06	12,253.3	-801.1	126.1	-798.2	12.00	12.00	3.26
12,325.0	7.91	359.26	12,278.2	-798.3	126.1	-795.5	12.00	12.00	0.79
12,350.0	10.91	359.35	12,302.9	-794.2	126.0	-791.4	12.00	12.00	0.36
12,375.0	13.91	359.40	12,327.3	-788.9	126.0	-786.0	12.00	12.00	0.20
12,400.0	16.91	359.43	12,351.4	-782.2	125.9	-779.4	12.00	12.00	0.13
12,425.0	19.91	359.46	12,375.1	-774.3	125.8	-771.5	12.00	12.00	0.09
12,450.0	22.91	359.47	12,398.4	-765.2	125.8	-762.4	12.00	12.00	0.07
12,475.0	25.91	359.49	12,421.1	-754.9	125.7	-752.0	12.00	12.00	0.05
12,500.0	28.91	359.50	12,443.3	-743.4	125.6	-740.5	12.00	12.00	0.04
12,525.0	31.91	359.51	12,464.9	-730.7	125.5	-727.9	12.00	12.00	0.04
12,550.0	34.91	359.51	12,485.7 12,505.9	-716.9 -702.1	125.3 125.2	-714.1 -699.3	12.00 12.00	12.00 12.00	0.03 0.03
12,575.0	37.91	359.52							
12,600.0	40.91	359.53	12,525.2	-686.2	125.1	-683.4 -666.6	12.00 12.00	12.00 12.00	0.02 0.02
12,625.0	43.91	359.53	12,543.6	-669.4	124.9 124.8	-648.8	12.00	12.00	0.02
12,650.0	46.91	359.54 359.54	12,561.2 12,577.8	-651.6 -632.9	124.6	-630.1	12.00	12.00	0.02
12,675.0 12,700.0	49.91 52.91	359.54 359.54	12,577.8	-632.9	124.5	-610.6	12.00	12.00	0.02
								12.00	0.01
12,725.0	55.91	359.55	12,607.9	-593.0 -573.0	124.3 124.2	-590.3 -569.2	12.00 12.00	12.00	0.01
12,750.0	58.91	359.55	12,621.4	-572.0 -550.2	124.2	-547.5	12.00	12.00	0.01
12,775.0 12,800.0	61.91 64.91	359.55 359.56	12,633.7 12,644.9	-550.2 -527.9	123.8	-525.1	12.00	12.00	0.01
12,800.0	67.72	359.56	12,654.3	-506.4	123.7	-503.7	12.00	12.00	0.01
FTP (Ophelia		555.55	.2,004.0	300.4	120.7				
		250.50	12.054.0	E0E 0	100 6	E02.2	12.00	12.00	0.01
12,825.0	67.91	359.56	12,654.9	-505.0 481.6	123.6 123.5	-502.2 -478.8	12.00	12.00	0.01
12,850.0	70.91	359.56	12,663.7	-481.6 -457.7	123.3	-476.6 -455.0	12.00	12.00	0.01
12,875.0	73.91	359.57 359.57	12,671.3 12,677.6	-457.7 -433.6	123.3	-430.8	12.00	12.00	0.01
12,900.0 12,925.0	76.91 79.91	359.57 359.57	12,677.6 12,682.6	-433.6 -409.1	123.1	-430.6	12.00	12.00	0.01
12,950.0	82.91	359.57	12,686.3	-384.4	122.7	-381.7	12.00	12.00	0.01 0.01
12,975.0	85.91	359.58	12,688.8	-359.5	122.5	-356.8	12.00	12.00	0.01
13,000.0	88.91	359.58	12,689.9	-334.5	122.4	-331.8 -322.7	12.00 12.00	12.00 12.00	0.01
13,009.1 13,100.0	90.00	359.58 359.58	12,690.0 12,690.0	-325.4 -234.5	122.3 121.6	-322.7	0.00	0.00	0.00

# **S**eog resources

#### **EOG Resources, Inc.**

#### Planning Report

Database: EDM 6
Company: EOG
Project: Lea C

EDM 5000.1 Single User Db EOG Resources - Midland Lea County, NM (NAD 27 NME)

Site: Ophelia 27
Well: #709H
Wellbore: OH

Local Co-ordinate Reference:

**Survey Calculation Method:** 

TVD Reference:
MD Reference:
North Reference:

Well #709H

KB = 25' @ 3319.0usft KB = 25' @ 3319.0usft

Grid

mad Cumian						OVER WHAT A SERVE	MATERIAL CONTRACTOR		
nned Survey									
Measured			Vertical			Vertical	Dogleg	Build	Turn
Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Section	Rate	Rate	Rate
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)
13,200.0	90.00	359.58	12,690.0	-134.5	120.9	-131.9	0.00	0.00	0.00
13,300.0	90.00	359.58	12,690.0	-34.5	120.2	-32.0	0.00	0.00	0.00
13,400.0	90.00	359.58	12,690.0	65.5	119.4	68.0	0.00	0.00	0.00
13,500.0	90.00	359.58	12,690.0	165.5	118.7	168.0	0.00	0.00	0.00
13,600.0	90.00	359.58	12,690.0	265.5	117.9	267.9	0.00	0.00	0.00
13,700.0	90.00	359.58	12,690.0	365.5	117.2	367.9	0.00	0.00	0.00
13,800.0	90.00	359.58	12,690.0	465.5	116.5	467.8	0.00	0.00	0.00
13,900.0	90.00	359.58	12,690.0	565.5	115.7	567.8	0.00	0.00	0.00
14,000.0	90.00	359.58	12,690.0	665.5	115.0	667.8	0.00	0.00	0.00
14,100.0	90.00	359.58	12,690.0	765.5	114.3	767.7	0.00	0.00	0.00
14,200.0	90.00	359.58	12,690.0	865.5	113.5	867.7	0.00	0.00	0.00
14,300.0	90.00	359.58	12,690.0	965.5	112.8	967.6	0.00	0.00	0.00
14,400.0	90.00	359.58	12,690.0	1,065.5	112.1	1,067.6	0.00	0.00	0.00
14,500.0	90.00	359.58	12,690.0	1,165.5	111.3	1,167.6	0.00	0.00	0.00
14,600.0	90.00	359.58	12,690.0	1,265.5	110.6	1,267.5	0.00	0.00	0.00
14,700.0	90.00	359.58	12,690.0	1,365.4	109.9	1,367.5	0.00	0.00	0.00
14,800.0	90.00	359.58	12,690.0	1,465.4	109.1	1,467.4	0.00	0.00	0.00
14,900.0	90.00	359.58	12,690.0	1,565.4	108.4	1,567.4	0.00	0.00	0.00
15,000.0	90.00	359.58	12,690.0	1,665.4	107.6	1,667.3	0.00	0.00	0.00
15,100.0	90.00	359.58	12,690.0	1,765.4	106.9	1,767.3	0.00	0.00	0.00
15,200.0	90.00	359.58	12,690.0	1,865.4	106.2	1,867.3	0.00	0.00	0.00
15,300.0	90.00	359.58	12,690.0	1,965.4	105.4	1,967.2	0.00	0.00	0.00
15,400.0	90.00	359.58	12,690.0	2,065.4	104.7	2,067.2	0.00	0.00	0.00
15,500.0	90.00	359.58	12,690.0	2,165.4	104.0	2,167.1	0.00	0.00	0.00
15,600.0	90.00	359.58	12,690.0	2,265.4	103.2	2,267.1	0.00	0.00	0.00
15,700.0	90.00	359.58	12,690.0	2,365.4	102.5	2,367.1	0.00	0.00	0.00
15,800.0	90.00	359.58	12,690.0	2,465.4	101.8	2,467.0	0.00	0.00	0.00
15,900.0	90.00	359.58	12,690.0	2,565.4	101.0	2,567.0	0.00	0.00	0.00
16,000.0	90.00	359.58	12,690.0	2,665.4	100.3	2,666.9	0.00	0.00	0.00
16,100.0	90.00	359.58	12,690.0	2,765.4	99.5	2,766.9	0.00	0.00	0.00
16,200.0	90.00	359.58	12,690.0	2,865.4	98.8	2,866.9	0.00	0.00	0.00
16,300.0	90.00	359.58	12,690.0	2,965.4	98.1	2,966.8	0.00	0.00	0.00
16,400.0	90.00	359.58	12,690.0	3,065.4	97.3	3,066.8	0.00	0.00	0.00
16,500.0	90.00	359.58	12,690.0	3,165.4	96.6	3,166.7	0.00	0.00	0.00
16,600.0	90.00	359.58	12,690.0	3,265.4	95.9	3,266.7	0.00	0.00	0.00
16,700.0	90.00	359.58	12,690.0	3,365.4	95.1	3,366.7	0.00	0.00	0.00
16,800.0	90.00	359.58	12,690.0	3,465.4	94.4	3,466.6	0.00	0.00	0.00
16,900.0	90.00	359.58	12,690.0	3,565.4	93.7	3,566.6	0.00	0.00	0.00
17,000.0	90.00	359.58	12,690.0	3,665.4	92.9	3,666.5	0.00	0.00	0.00
17,100.0	90.00	359.58	12,690.0	3,765.4	92.2	3,766.5	0.00	0.00	0.00
17,200.0	90.00	359.58	12,690.0	3,865.4	91.4	3,866.5	0.00	0.00	0.00
17,300.0	90.00	359.58	12,690.0	3,965.4	90.7	3,966.4	0.00	0.00	0.00
17,400.0	90.00	359.58	12,690.0	4,065.4	90.0	4,066.4	0.00	0.00	0.00
17,500.0	90.00	359.58	12,690.0	4,165.4	89.2	4,166.3	0.00	0.00	0.00
17,532.6	90.00	359.58	12,690.0	4,198.0	89.0	4,198.9	0.00	0.00	0.00

# **eog resources**

#### **EOG Resources, Inc.**

Planning Report

Database: Company: EDM 5000.1 Single User Db EOG Resources - Midland Lea County, NM (NAD 27 NME)

Project: Site: Well:

Lea County, NN Ophelia 27

 Well:
 #709H

 Wellbore:
 OH

 Design:
 Plan #0.1

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference: Survey Calculation Method: Well #709H

KB = 25' @ 3319.0usft KB = 25' @ 3319.0usft

Grid

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle	Dip Dir.	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL (Ophelia 27 #709ł - plan hits target cen - Point		0.00	12,690.0	4,198.0	89.0	374,859.00	742,064.00	32° 1' 41.506 N	103° 33' 8.064 V
FTP (Ophelia 27 #709H) - plan misses target - Point		0.00 Jusft at 1282	12,690.0 3.4usft MD (	-522.0 12654.3 TVD,	124.0 -506.4 N, 123	370,139.00 5.7 E)	742,099.00	32° 0′ 54.796 N	103° 33' 8.053 V