

HOBBS OCD

AUG 09 2018

RECEIVED



Lea County, NM (NAD 83 NME)

Red Raider 25 State Com #704H

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: #704H

KB = 25 @ 3548.0usft
Northing 430917.00 Easting 791505.00
Latitude 32° 10' 55.502 N Longitude 103° 31' 28.992 W

Azimuths to Grid North
True North: -0.43°
Magnetic North: 8.37°
Magnetic Field
Strength: 47800.0anT
Dip Angle: 60.02°
Date: 8/8/2018
Model: IGRF 2015

To convert a Magnetic Direction to a Grid Direction, Add 0.37°
To convert a Magnetic Direction to a True Direction, Add 0.30° East
To convert a True Direction to a Grid Direction, Subtract 0.43°

SECTION DETAILS

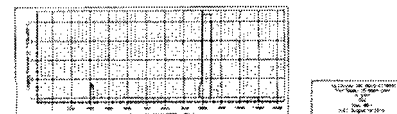
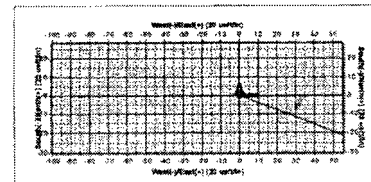
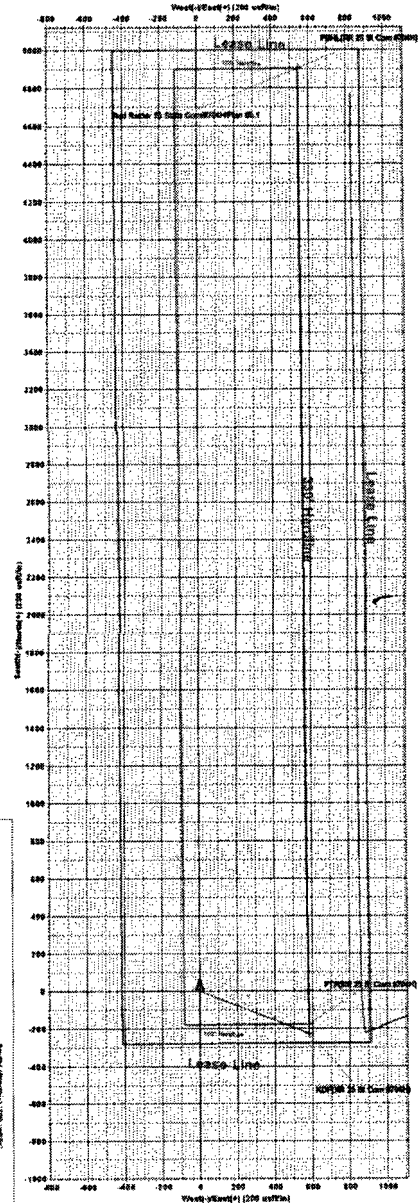
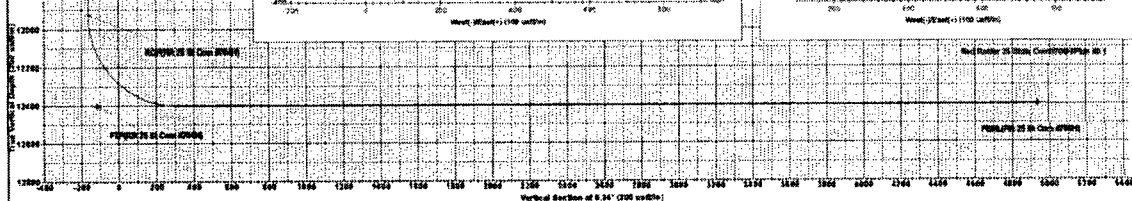
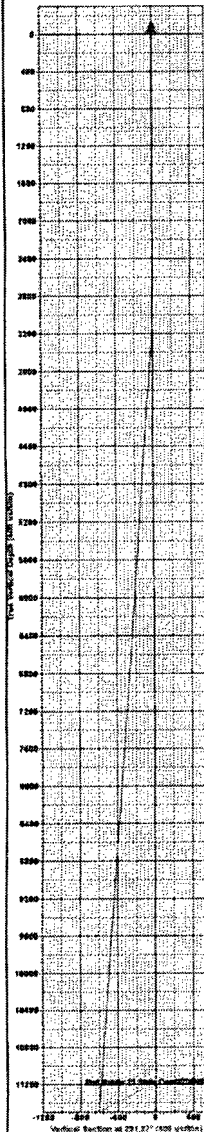
Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	Vsect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	3000.0	0.00	0.00	3000.0	0.0	0.0	0.00	0.00	0.0	
3	3205.2	4.10	111.27	3205.0	-2.7	6.8	2.00	111.27	-1.9	
4	11743.6	4.10	111.27	11721.5	-224.3	576.2	0.00	0.00	-159.3	
5	11948.7	0.00	0.00	11925.5	-227.0	583.0	2.00	180.00	-161.2	KOP(RR 25 St Com #704H)
6	12698.7	90.00	359.58	12404.0	250.4	579.5	12.00	359.58	312.9	
7	17350.4	90.00	359.58	12404.0	4902.0	545.0	0.00	0.00	4932.2	PBHL(RR 25 St Com #704H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	KB-S	161-W	Northing	Easting
KOP(RR 25 St Com #704H)	11838.5	-227.0	683.0	430917.00	792089.00
FTP(RR 25 St Com #704H)	12604.0	-177.0	683.0	430740.00	792089.00
PBHL(RR 25 St Com #704H)	12404.0	4862.0	545.0	435819.00	792089.00





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EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Red Raider 25 State Com

#704H

OH

Plan: Plan #0.1

Standard Planning Report

09 August, 2018

Database: EDM 5000.14
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Red Raider 25 State Com
Well: #704H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #704H
TVD Reference: KB = 25 @ 3548.0usft
MD Reference: KB = 25 @ 3548.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

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	Red Raider 25 State Com		
Site Position:		Northing:	430,866.00 usft
From:	Map	Easting:	792,872.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 10' 54.895 N
		Longitude:	103° 31' 13.091 W
		Grid Convergence:	0.43 °

Well	#704H		
Well Position	+N-S	51.0 usft	Northing: 430,917.00 usft
	+E-W	-1,387.0 usft	Easting: 791,505.00 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	3,523.0 usft
		Latitude:	32° 10' 55.502 N
		Longitude:	103° 31' 28.992 W
		Ground Level:	

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination
	IGRF2015	8/8/2018	6.80
			Dip Angle
			60.02
			Field Strength
			47,799.95772412

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
			(°)
			6.34

Plan Survey Tool Program	Date 8/9/2018		
Depth From	Depth To	Survey (Wellbore)	Tool Name
(usft)	(usft)		
1	0.0	17,350.4 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	
3,205.2	4.10	111.27	3,205.0	-2.7	6.8	2.00	2.00	0.00	111.27	
11,743.6	4.10	111.27	11,721.5	-224.3	576.2	0.00	0.00	0.00	0.00	
11,948.7	0.00	0.00	11,926.5	-227.0	583.0	2.00	-2.00	0.00	180.00	KOP(RR 25 St Com #
12,698.7	90.00	359.58	12,404.0	250.4	579.5	12.00	12.00	-0.06	359.58	
17,350.4	90.00	359.58	12,404.0	4,902.0	545.0	0.00	0.00	0.00	0.00	PBHL(RR 25 St Com

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MD Reference: KB = 25 @ 3548.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

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	2.00	111.27	3,100.0	-0.6	1.6	-0.4	2.00	2.00	0.00
3,205.2	4.10	111.27	3,205.0	-2.7	6.8	-1.9	2.00	2.00	0.00
3,300.0	4.10	111.27	3,299.6	-5.1	13.2	-3.6	0.00	0.00	0.00
3,400.0	4.10	111.27	3,399.3	-7.7	19.8	-5.5	0.00	0.00	0.00
3,500.0	4.10	111.27	3,499.1	-10.3	26.5	-7.3	0.00	0.00	0.00
3,600.0	4.10	111.27	3,598.8	-12.9	33.2	-9.2	0.00	0.00	0.00
3,700.0	4.10	111.27	3,698.6	-15.5	39.8	-11.0	0.00	0.00	0.00
3,800.0	4.10	111.27	3,798.3	-18.1	46.5	-12.9	0.00	0.00	0.00
3,900.0	4.10	111.27	3,898.0	-20.7	53.2	-14.7	0.00	0.00	0.00
4,000.0	4.10	111.27	3,997.8	-23.3	59.8	-16.5	0.00	0.00	0.00
4,100.0	4.10	111.27	4,097.5	-25.9	66.5	-18.4	0.00	0.00	0.00
4,200.0	4.10	111.27	4,197.3	-28.5	73.2	-20.2	0.00	0.00	0.00
4,300.0	4.10	111.27	4,297.0	-31.1	79.8	-22.1	0.00	0.00	0.00
4,400.0	4.10	111.27	4,396.8	-33.7	86.5	-23.9	0.00	0.00	0.00
4,500.0	4.10	111.27	4,496.5	-36.3	93.2	-25.8	0.00	0.00	0.00
4,600.0	4.10	111.27	4,596.2	-38.9	99.8	-27.6	0.00	0.00	0.00
4,700.0	4.10	111.27	4,696.0	-41.5	106.5	-29.4	0.00	0.00	0.00
4,800.0	4.10	111.27	4,795.7	-44.1	113.2	-31.3	0.00	0.00	0.00
4,900.0	4.10	111.27	4,895.5	-46.7	119.8	-33.1	0.00	0.00	0.00
5,000.0	4.10	111.27	4,995.2	-49.3	126.5	-35.0	0.00	0.00	0.00
5,100.0	4.10	111.27	5,095.0	-51.9	133.2	-36.8	0.00	0.00	0.00
5,200.0	4.10	111.27	5,194.7	-54.5	139.9	-38.7	0.00	0.00	0.00
5,300.0	4.10	111.27	5,294.5	-57.0	146.5	-40.5	0.00	0.00	0.00

Database: EDM 5000.14
Company: EOG Resources - Midland
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Site: Red Raider 25 State Com
Well: #704H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:

Well #704H
 KB = 25 @ 3548.0usft
 KB = 25 @ 3548.0usft
 Grid
 Minimum Curvature

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)
5,400.0	4.10	111.27	5,394.2	-59.6	153.2	-42.4	0.00	0.00	0.00
5,500.0	4.10	111.27	5,493.9	-62.2	159.9	-44.2	0.00	0.00	0.00
5,600.0	4.10	111.27	5,593.7	-64.8	166.5	-46.0	0.00	0.00	0.00
5,700.0	4.10	111.27	5,693.4	-67.4	173.2	-47.9	0.00	0.00	0.00
5,800.0	4.10	111.27	5,793.2	-70.0	179.9	-49.7	0.00	0.00	0.00
5,900.0	4.10	111.27	5,892.9	-72.6	186.5	-51.6	0.00	0.00	0.00
6,000.0	4.10	111.27	5,992.7	-75.2	193.2	-53.4	0.00	0.00	0.00
6,100.0	4.10	111.27	6,092.4	-77.8	199.9	-55.3	0.00	0.00	0.00
6,200.0	4.10	111.27	6,192.1	-80.4	206.5	-57.1	0.00	0.00	0.00
6,300.0	4.10	111.27	6,291.9	-83.0	213.2	-58.9	0.00	0.00	0.00
6,400.0	4.10	111.27	6,391.6	-85.6	219.9	-60.8	0.00	0.00	0.00
6,500.0	4.10	111.27	6,491.4	-88.2	226.5	-62.6	0.00	0.00	0.00
6,600.0	4.10	111.27	6,591.1	-90.8	233.2	-64.5	0.00	0.00	0.00
6,700.0	4.10	111.27	6,690.9	-93.4	239.9	-66.3	0.00	0.00	0.00
6,800.0	4.10	111.27	6,790.6	-96.0	246.5	-68.2	0.00	0.00	0.00
6,900.0	4.10	111.27	6,890.4	-98.6	253.2	-70.0	0.00	0.00	0.00
7,000.0	4.10	111.27	6,990.1	-101.2	259.9	-71.8	0.00	0.00	0.00
7,100.0	4.10	111.27	7,089.8	-103.8	266.5	-73.7	0.00	0.00	0.00
7,200.0	4.10	111.27	7,189.6	-106.4	273.2	-75.5	0.00	0.00	0.00
7,300.0	4.10	111.27	7,289.3	-109.0	279.9	-77.4	0.00	0.00	0.00
7,400.0	4.10	111.27	7,389.1	-111.6	286.5	-79.2	0.00	0.00	0.00
7,500.0	4.10	111.27	7,488.8	-114.2	293.2	-81.1	0.00	0.00	0.00
7,600.0	4.10	111.27	7,588.6	-116.8	299.9	-82.9	0.00	0.00	0.00
7,700.0	4.10	111.27	7,688.3	-119.4	306.5	-84.8	0.00	0.00	0.00
7,800.0	4.10	111.27	7,788.0	-122.0	313.2	-86.6	0.00	0.00	0.00
7,900.0	4.10	111.27	7,887.8	-124.6	319.9	-88.4	0.00	0.00	0.00
8,000.0	4.10	111.27	7,987.5	-127.1	326.5	-90.3	0.00	0.00	0.00
8,100.0	4.10	111.27	8,087.3	-129.7	333.2	-92.1	0.00	0.00	0.00
8,200.0	4.10	111.27	8,187.0	-132.3	339.9	-94.0	0.00	0.00	0.00
8,300.0	4.10	111.27	8,286.8	-134.9	346.6	-95.8	0.00	0.00	0.00
8,400.0	4.10	111.27	8,386.5	-137.5	353.2	-97.7	0.00	0.00	0.00
8,500.0	4.10	111.27	8,486.3	-140.1	359.9	-99.5	0.00	0.00	0.00
8,600.0	4.10	111.27	8,586.0	-142.7	366.6	-101.3	0.00	0.00	0.00
8,700.0	4.10	111.27	8,685.7	-145.3	373.2	-103.2	0.00	0.00	0.00
8,800.0	4.10	111.27	8,785.5	-147.9	379.9	-105.0	0.00	0.00	0.00
8,900.0	4.10	111.27	8,885.2	-150.5	386.6	-106.9	0.00	0.00	0.00
9,000.0	4.10	111.27	8,985.0	-153.1	393.2	-108.7	0.00	0.00	0.00
9,100.0	4.10	111.27	9,084.7	-155.7	399.9	-110.6	0.00	0.00	0.00
9,200.0	4.10	111.27	9,184.5	-158.3	406.6	-112.4	0.00	0.00	0.00
9,300.0	4.10	111.27	9,284.2	-160.9	413.2	-114.3	0.00	0.00	0.00
9,400.0	4.10	111.27	9,383.9	-163.5	419.9	-116.1	0.00	0.00	0.00
9,500.0	4.10	111.27	9,483.7	-166.1	426.6	-117.9	0.00	0.00	0.00
9,600.0	4.10	111.27	9,583.4	-168.7	433.2	-119.8	0.00	0.00	0.00
9,700.0	4.10	111.27	9,683.2	-171.3	439.9	-121.6	0.00	0.00	0.00
9,800.0	4.10	111.27	9,782.9	-173.9	446.6	-123.5	0.00	0.00	0.00
9,900.0	4.10	111.27	9,882.7	-176.5	453.2	-125.3	0.00	0.00	0.00
10,000.0	4.10	111.27	9,982.4	-179.1	459.9	-127.2	0.00	0.00	0.00
10,100.0	4.10	111.27	10,082.2	-181.7	466.6	-129.0	0.00	0.00	0.00
10,200.0	4.10	111.27	10,181.9	-184.3	473.2	-130.8	0.00	0.00	0.00
10,300.0	4.10	111.27	10,281.6	-186.9	479.9	-132.7	0.00	0.00	0.00
10,400.0	4.10	111.27	10,381.4	-189.5	486.6	-134.5	0.00	0.00	0.00
10,500.0	4.10	111.27	10,481.1	-192.1	493.2	-136.4	0.00	0.00	0.00
10,600.0	4.10	111.27	10,580.9	-194.6	499.9	-138.2	0.00	0.00	0.00
10,700.0	4.10	111.27	10,680.6	-197.2	506.6	-140.1	0.00	0.00	0.00

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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)
10,800.0	4.10	111.27	10,780.4	-199.8	513.2	-141.9	0.00	0.00	0.00
10,900.0	4.10	111.27	10,880.1	-202.4	519.9	-143.7	0.00	0.00	0.00
11,000.0	4.10	111.27	10,979.8	-205.0	526.6	-145.6	0.00	0.00	0.00
11,100.0	4.10	111.27	11,079.6	-207.6	533.2	-147.4	0.00	0.00	0.00
11,200.0	4.10	111.27	11,179.3	-210.2	539.9	-149.3	0.00	0.00	0.00
11,300.0	4.10	111.27	11,279.1	-212.8	546.6	-151.1	0.00	0.00	0.00
11,400.0	4.10	111.27	11,378.8	-215.4	553.2	-153.0	0.00	0.00	0.00
11,500.0	4.10	111.27	11,478.6	-218.0	559.9	-154.8	0.00	0.00	0.00
11,600.0	4.10	111.27	11,578.3	-220.6	566.6	-156.7	0.00	0.00	0.00
11,700.0	4.10	111.27	11,678.1	-223.2	573.3	-158.5	0.00	0.00	0.00
11,743.6	4.10	111.27	11,721.5	-224.3	576.2	-159.3	0.00	0.00	0.00
11,800.0	2.97	111.27	11,777.8	-225.6	579.4	-160.2	2.00	-2.00	0.00
11,900.0	0.97	111.27	11,877.8	-226.8	582.6	-161.1	2.00	-2.00	0.00
11,948.7	0.00	0.00	11,926.5	-227.0	583.0	-161.2	2.00	-2.00	0.00
KOP(RR 25 St Com #704H)									
11,950.0	0.15	359.58	11,927.8	-227.0	583.0	-161.2	12.00	12.00	0.00
11,975.0	3.15	359.58	11,952.8	-226.3	583.0	-160.5	12.00	12.00	0.00
12,000.0	6.15	359.58	11,977.7	-224.3	583.0	-158.5	12.00	12.00	0.00
12,025.0	9.15	359.58	12,002.4	-220.9	583.0	-155.2	12.00	12.00	0.00
12,050.0	12.15	359.58	12,027.0	-216.3	582.9	-150.6	12.00	12.00	0.00
12,075.0	15.15	359.58	12,051.3	-210.4	582.9	-144.7	12.00	12.00	0.00
12,100.0	18.15	359.58	12,075.2	-203.2	582.8	-137.6	12.00	12.00	0.00
12,125.0	21.15	359.58	12,098.8	-194.8	582.8	-129.2	12.00	12.00	0.00
12,150.0	24.15	359.58	12,121.9	-185.2	582.7	-119.7	12.00	12.00	0.00
12,175.0	27.15	359.58	12,144.4	-174.4	582.6	-108.9	12.00	12.00	0.00
12,200.0	30.15	359.58	12,166.3	-162.4	582.5	-97.0	12.00	12.00	0.00
12,225.0	33.15	359.58	12,187.6	-149.3	582.4	-84.0	12.00	12.00	0.00
12,250.0	36.15	359.58	12,208.2	-135.1	582.3	-69.9	12.00	12.00	0.00
12,275.0	39.15	359.58	12,228.0	-119.8	582.2	-54.7	12.00	12.00	0.00
12,300.0	42.15	359.58	12,246.9	-103.5	582.1	-38.6	12.00	12.00	0.00
12,325.0	45.15	359.58	12,265.0	-86.3	582.0	-21.4	12.00	12.00	0.00
12,350.0	48.15	359.58	12,282.2	-68.1	581.8	-3.4	12.00	12.00	0.00
FTP(RR 25 St Com #704H)									
12,375.0	51.15	359.58	12,298.4	-49.0	581.7	15.5	12.00	12.00	0.00
12,400.0	54.15	359.58	12,313.5	-29.2	581.5	35.3	12.00	12.00	0.00
12,425.0	57.15	359.58	12,327.6	-8.5	581.4	55.8	12.00	12.00	0.00
12,450.0	60.15	359.58	12,340.6	12.8	581.2	77.0	12.00	12.00	0.00
12,475.0	63.15	359.58	12,352.5	34.8	581.1	98.8	12.00	12.00	0.00
12,500.0	66.15	359.58	12,363.2	57.4	580.9	121.2	12.00	12.00	0.00
12,525.0	69.15	359.58	12,372.7	80.5	580.7	144.2	12.00	12.00	0.00
12,550.0	72.15	359.58	12,381.0	104.1	580.5	167.6	12.00	12.00	0.00
12,575.0	75.15	359.58	12,388.0	128.1	580.4	191.4	12.00	12.00	0.00
12,600.0	78.15	359.58	12,393.8	152.4	580.2	215.6	12.00	12.00	0.00
12,625.0	81.15	359.58	12,398.3	177.0	580.0	240.0	12.00	12.00	0.00
12,650.0	84.15	359.58	12,401.5	201.8	579.8	264.6	12.00	12.00	0.00
12,675.0	87.15	359.58	12,403.4	226.7	579.6	289.4	12.00	12.00	0.00
12,698.7	90.00	359.58	12,404.0	250.4	579.5	312.9	12.00	12.00	0.00
12,700.0	90.00	359.58	12,404.0	251.7	579.5	314.2	0.00	0.00	0.00
12,800.0	90.00	359.58	12,404.0	351.7	578.7	413.5	0.00	0.00	0.00
12,900.0	90.00	359.58	12,404.0	451.7	578.0	512.8	0.00	0.00	0.00
13,000.0	90.00	359.58	12,404.0	551.7	577.2	612.1	0.00	0.00	0.00
13,100.0	90.00	359.58	12,404.0	651.7	576.5	711.4	0.00	0.00	0.00
13,200.0	90.00	359.58	12,404.0	751.7	575.7	810.7	0.00	0.00	0.00
13,300.0	90.00	359.58	12,404.0	851.7	575.0	910.0	0.00	0.00	0.00

Database: EDM 5000.14
 Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Red Raider 25 State Com
 Well: #704H
 Wellbore: OH
 Design: Plan #0.1

Local Co-ordinate Reference: Well #704H
 TVD Reference: KB = 25 @ 3548.0usft
 MD Reference: KB = 25 @ 3548.0usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

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)
13,400.0	90.00	359.58	12,404.0	951.7	574.3	1,009.3	0.00	0.00	0.00
13,500.0	90.00	359.58	12,404.0	1,051.7	573.5	1,108.6	0.00	0.00	0.00
13,600.0	90.00	359.58	12,404.0	1,151.7	572.8	1,207.9	0.00	0.00	0.00
13,700.0	90.00	359.58	12,404.0	1,251.7	572.0	1,307.2	0.00	0.00	0.00
13,800.0	90.00	359.58	12,404.0	1,351.7	571.3	1,406.5	0.00	0.00	0.00
13,900.0	90.00	359.58	12,404.0	1,451.7	570.6	1,505.8	0.00	0.00	0.00
14,000.0	90.00	359.58	12,404.0	1,551.7	569.8	1,605.1	0.00	0.00	0.00
14,100.0	90.00	359.58	12,404.0	1,651.7	569.1	1,704.4	0.00	0.00	0.00
14,200.0	90.00	359.58	12,404.0	1,751.7	568.3	1,803.7	0.00	0.00	0.00
14,300.0	90.00	359.58	12,404.0	1,851.7	567.6	1,903.1	0.00	0.00	0.00
14,400.0	90.00	359.58	12,404.0	1,951.7	566.9	2,002.4	0.00	0.00	0.00
14,500.0	90.00	359.58	12,404.0	2,051.7	566.1	2,101.7	0.00	0.00	0.00
14,600.0	90.00	359.58	12,404.0	2,151.7	565.4	2,201.0	0.00	0.00	0.00
14,700.0	90.00	359.58	12,404.0	2,251.7	564.6	2,300.3	0.00	0.00	0.00
14,800.0	90.00	359.58	12,404.0	2,351.7	563.9	2,399.6	0.00	0.00	0.00
14,900.0	90.00	359.58	12,404.0	2,451.7	563.2	2,498.9	0.00	0.00	0.00
15,000.0	90.00	359.58	12,404.0	2,551.7	562.4	2,598.2	0.00	0.00	0.00
15,100.0	90.00	359.58	12,404.0	2,651.6	561.7	2,697.5	0.00	0.00	0.00
15,200.0	90.00	359.58	12,404.0	2,751.6	560.9	2,796.8	0.00	0.00	0.00
15,300.0	90.00	359.58	12,404.0	2,851.6	560.2	2,896.1	0.00	0.00	0.00
15,400.0	90.00	359.58	12,404.0	2,951.6	559.4	2,995.4	0.00	0.00	0.00
15,500.0	90.00	359.58	12,404.0	3,051.6	558.7	3,094.7	0.00	0.00	0.00
15,600.0	90.00	359.58	12,404.0	3,151.6	558.0	3,194.0	0.00	0.00	0.00
15,700.0	90.00	359.58	12,404.0	3,251.6	557.2	3,293.3	0.00	0.00	0.00
15,800.0	90.00	359.58	12,404.0	3,351.6	556.5	3,392.6	0.00	0.00	0.00
15,900.0	90.00	359.58	12,404.0	3,451.6	555.7	3,491.9	0.00	0.00	0.00
16,000.0	90.00	359.58	12,404.0	3,551.6	555.0	3,591.2	0.00	0.00	0.00
16,100.0	90.00	359.58	12,404.0	3,651.6	554.3	3,690.5	0.00	0.00	0.00
16,200.0	90.00	359.58	12,404.0	3,751.6	553.5	3,789.8	0.00	0.00	0.00
16,300.0	90.00	359.58	12,404.0	3,851.6	552.8	3,889.1	0.00	0.00	0.00
16,400.0	90.00	359.58	12,404.0	3,951.6	552.0	3,988.4	0.00	0.00	0.00
16,500.0	90.00	359.58	12,404.0	4,051.6	551.3	4,087.7	0.00	0.00	0.00
16,600.0	90.00	359.58	12,404.0	4,151.6	550.6	4,187.0	0.00	0.00	0.00
16,700.0	90.00	359.58	12,404.0	4,251.6	549.8	4,286.3	0.00	0.00	0.00
16,800.0	90.00	359.58	12,404.0	4,351.6	549.1	4,385.6	0.00	0.00	0.00
16,900.0	90.00	359.58	12,404.0	4,451.6	548.3	4,484.9	0.00	0.00	0.00
17,000.0	90.00	359.58	12,404.0	4,551.6	547.6	4,584.2	0.00	0.00	0.00
17,100.0	90.00	359.58	12,404.0	4,651.6	546.9	4,683.5	0.00	0.00	0.00
17,200.0	90.00	359.58	12,404.0	4,751.6	546.1	4,782.8	0.00	0.00	0.00
17,300.0	90.00	359.58	12,404.0	4,851.6	545.4	4,882.1	0.00	0.00	0.00
17,350.4	90.00	359.58	12,404.0	4,902.0	545.0	4,932.2	0.00	0.00	0.00

PBHL(RR 25 St Com #704H)

Database: EDM 5000.14
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Red Raider 25 State Com
Well: #704H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #704H
TVD Reference: KB = 25 @ 3548.0usft
MD Reference: KB = 25 @ 3548.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

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									
KOP(RR 25 St Com #70	0.00	0.00	11,926.5	-227.0	583.0	430,690.00	792,088.00	32° 10' 53.212 N	103° 31' 22.228 W
- plan hits target center									
- Point									
FTP(RR 25 St Com #70	0.00	0.00	12,404.0	-177.0	583.0	430,740.00	792,088.00	32° 10' 53.707 N	103° 31' 22.224 W
- plan misses target center by 163.4usft at 12350.0usft MD (12282.2 TVD, -68.1 N, 581.8 E)									
- Point									
PBHL(RR 25 St Com #7	0.00	0.00	12,404.0	4,902.0	545.0	435,819.00	792,050.00	32° 11' 43.967 N	103° 31' 22.221 W
- plan hits target center									
- Point									