



Lea County, NM (NAD 83 NME)

Red Raider 25 State Com #702H

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: #702H

KB = 25 @ 3529.0usft 3504.0
Northing 430862.00 Easting 792839.00 Latitude 32° 10' 54.858 N Longitude 103° 31' 13.478 W

SECTION DETAILS

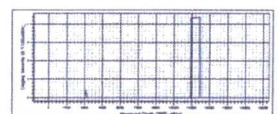
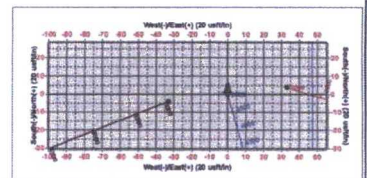
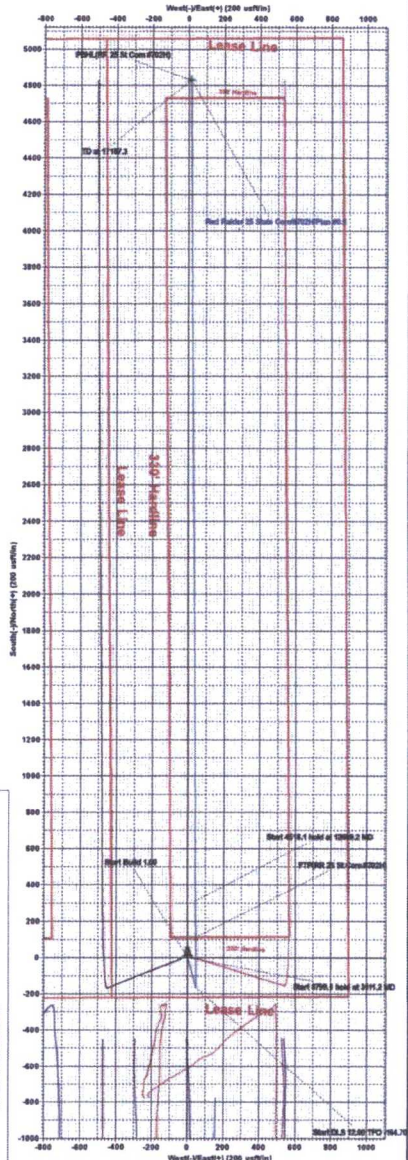
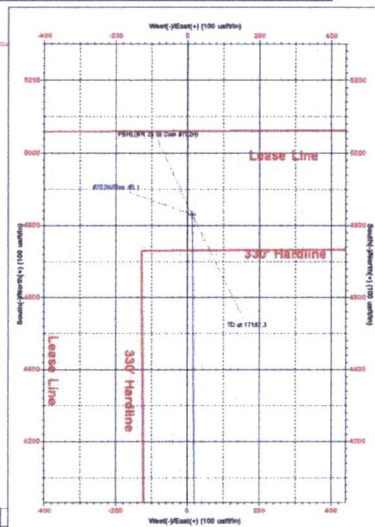
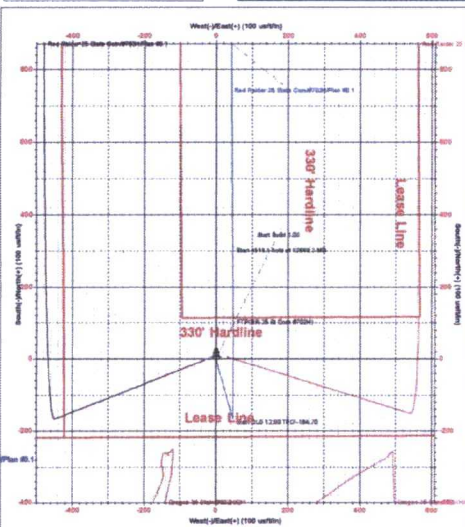
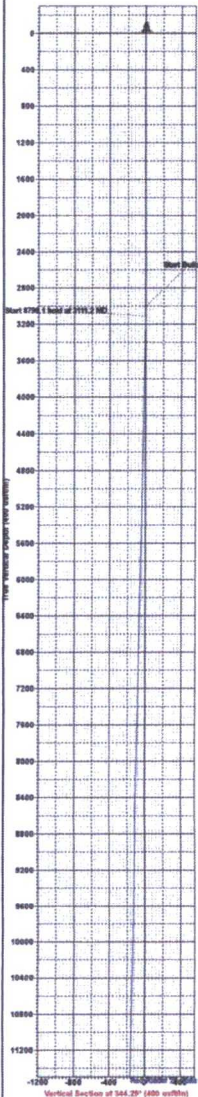
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.0	
2	3000.0	0.00	0.00	3000.0	0.0	0.00	0.00	0.00	0.0	
3	3111.2	1.11	164.29	3111.2	-1.0	0.3	1.00	164.29	-1.0	
4	11910.3	1.11	164.29	11908.6	-165.4	46.5	0.00	0.00	-165.2	
5	12689.2	90.00	359.59	12395.0	312.0	45.6	12.00	-164.70	312.1	
6	17187.3	90.00	359.59	12395.0	4830.0	13.0	0.00	0.00	4830.0	PBHL(RR 25 St Com #702H)

CASING DETAILS

No casing data is available

WELLSBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
PTPROR 25 St Com #702H	12395.0	112.0	47.0	430874.00	792886.00
PBHL(RR 25 St Com #702H)	12395.0	4830.0	13.0	430892.00	792892.00



Vertical Section of 0.10' (200 units)



EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Red Raider 25 State Com

#702H

OH

Plan: Plan #0.1

Standard Survey Report

08 February, 2018



Survey Report

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Red Raider 25 State Com
Well: #702H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #702H
TVD Reference: KB = 25 @ 3529.0usft
MD Reference: KB = 25 @ 3529.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.14

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	Latitude: 32° 10' 54.895 N
From: Map		Easting:	792,872.00 usft	Longitude: 103° 31' 13.091 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence: 0.43 °

Well	#702H			
Well Position	+N/-S	0.0 usft	Northing: 430,862.00 usft	Latitude: 32° 10' 54.858 N
	+E/-W	0.0 usft	Easting: 792,839.00 usft	Longitude: 103° 31' 13.475 W
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft	Ground Level: 3,504.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	2/7/2018	6.86	60.02	47,851.71355182

Design	Plan #0.1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	0.15

Survey Tool Program	Date 2/8/2018			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	17,187.3	Plan #0.1 (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)	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	



Survey Report

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Red Raider 25 State Com
Well: #702H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #702H
TYD Reference: KB = 25 @ 3529.0usft
MD Reference: KB = 25 @ 3529.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.14

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	1.00	164.29	3,100.0	-0.8	0.2	-0.8	1.00	1.00	0.00
3,111.2	1.11	164.29	3,111.2	-1.0	0.3	-1.0	1.00	1.00	0.00
3,200.0	1.11	164.29	3,200.0	-2.7	0.8	-2.7	0.00	0.00	0.00
3,300.0	1.11	164.29	3,300.0	-4.6	1.3	-4.6	0.00	0.00	0.00
3,400.0	1.11	164.29	3,399.9	-6.4	1.8	-6.4	0.00	0.00	0.00
3,500.0	1.11	164.29	3,499.9	-8.3	2.3	-8.3	0.00	0.00	0.00
3,600.0	1.11	164.29	3,599.9	-10.2	2.9	-10.2	0.00	0.00	0.00
3,700.0	1.11	164.29	3,699.9	-12.0	3.4	-12.0	0.00	0.00	0.00
3,800.0	1.11	164.29	3,799.9	-13.9	3.9	-13.9	0.00	0.00	0.00
3,900.0	1.11	164.29	3,899.8	-15.8	4.4	-15.8	0.00	0.00	0.00
4,000.0	1.11	164.29	3,999.8	-17.6	5.0	-17.6	0.00	0.00	0.00
4,100.0	1.11	164.29	4,099.8	-19.5	5.5	-19.5	0.00	0.00	0.00
4,200.0	1.11	164.29	4,199.8	-21.4	6.0	-21.4	0.00	0.00	0.00
4,300.0	1.11	164.29	4,299.8	-23.2	6.5	-23.2	0.00	0.00	0.00
4,400.0	1.11	164.29	4,399.8	-25.1	7.1	-25.1	0.00	0.00	0.00
4,500.0	1.11	164.29	4,499.7	-27.0	7.6	-27.0	0.00	0.00	0.00
4,600.0	1.11	164.29	4,599.7	-28.8	8.1	-28.8	0.00	0.00	0.00
4,700.0	1.11	164.29	4,699.7	-30.7	8.6	-30.7	0.00	0.00	0.00
4,800.0	1.11	164.29	4,799.7	-32.6	9.2	-32.6	0.00	0.00	0.00
4,900.0	1.11	164.29	4,899.7	-34.4	9.7	-34.4	0.00	0.00	0.00
5,000.0	1.11	164.29	4,999.6	-36.3	10.2	-36.3	0.00	0.00	0.00
5,100.0	1.11	164.29	5,099.6	-38.2	10.7	-38.2	0.00	0.00	0.00
5,200.0	1.11	164.29	5,199.6	-40.0	11.3	-40.0	0.00	0.00	0.00



Survey Report

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Red Raider 25 State Com
Well: #702H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #702H
TVD Reference: KB = 25 @ 3529.0usft
MD Reference: KB = 25 @ 3529.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.14

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	1.11	164.29	5,299.6	-41.9	11.8	-41.9	0.00	0.00	0.00
5,400.0	1.11	164.29	5,399.6	-43.8	12.3	-43.8	0.00	0.00	0.00
5,500.0	1.11	164.29	5,499.5	-45.7	12.8	-45.6	0.00	0.00	0.00
5,600.0	1.11	164.29	5,599.5	-47.5	13.4	-47.5	0.00	0.00	0.00
5,700.0	1.11	164.29	5,699.5	-49.4	13.9	-49.4	0.00	0.00	0.00
5,800.0	1.11	164.29	5,799.5	-51.3	14.4	-51.2	0.00	0.00	0.00
5,900.0	1.11	164.29	5,899.5	-53.1	14.9	-53.1	0.00	0.00	0.00
6,000.0	1.11	164.29	5,999.4	-55.0	15.5	-54.9	0.00	0.00	0.00
6,100.0	1.11	164.29	6,099.4	-56.9	16.0	-56.8	0.00	0.00	0.00
6,200.0	1.11	164.29	6,199.4	-58.7	16.5	-58.7	0.00	0.00	0.00
6,300.0	1.11	164.29	6,299.4	-60.6	17.0	-60.5	0.00	0.00	0.00
6,400.0	1.11	164.29	6,399.4	-62.5	17.6	-62.4	0.00	0.00	0.00
6,500.0	1.11	164.29	6,499.4	-64.3	18.1	-64.3	0.00	0.00	0.00
6,600.0	1.11	164.29	6,599.3	-66.2	18.6	-66.1	0.00	0.00	0.00
6,700.0	1.11	164.29	6,699.3	-68.1	19.1	-68.0	0.00	0.00	0.00
6,800.0	1.11	164.29	6,799.3	-69.9	19.7	-69.9	0.00	0.00	0.00
6,900.0	1.11	164.29	6,899.3	-71.8	20.2	-71.7	0.00	0.00	0.00
7,000.0	1.11	164.29	6,999.3	-73.7	20.7	-73.6	0.00	0.00	0.00
7,100.0	1.11	164.29	7,099.2	-75.5	21.2	-75.5	0.00	0.00	0.00
7,200.0	1.11	164.29	7,199.2	-77.4	21.8	-77.3	0.00	0.00	0.00
7,300.0	1.11	164.29	7,299.2	-79.3	22.3	-79.2	0.00	0.00	0.00
7,400.0	1.11	164.29	7,399.2	-81.1	22.8	-81.1	0.00	0.00	0.00
7,500.0	1.11	164.29	7,499.2	-83.0	23.3	-82.9	0.00	0.00	0.00
7,600.0	1.11	164.29	7,599.1	-84.9	23.9	-84.8	0.00	0.00	0.00
7,700.0	1.11	164.29	7,699.1	-86.7	24.4	-86.7	0.00	0.00	0.00
7,800.0	1.11	164.29	7,799.1	-88.6	24.9	-88.5	0.00	0.00	0.00
7,900.0	1.11	164.29	7,899.1	-90.5	25.4	-90.4	0.00	0.00	0.00
8,000.0	1.11	164.29	7,999.1	-92.3	26.0	-92.3	0.00	0.00	0.00
8,100.0	1.11	164.29	8,099.1	-94.2	26.5	-94.1	0.00	0.00	0.00
8,200.0	1.11	164.29	8,199.0	-96.1	27.0	-96.0	0.00	0.00	0.00
8,300.0	1.11	164.29	8,299.0	-97.9	27.5	-97.9	0.00	0.00	0.00
8,400.0	1.11	164.29	8,399.0	-99.8	28.1	-99.7	0.00	0.00	0.00
8,500.0	1.11	164.29	8,499.0	-101.7	28.6	-101.6	0.00	0.00	0.00
8,600.0	1.11	164.29	8,599.0	-103.5	29.1	-103.5	0.00	0.00	0.00
8,700.0	1.11	164.29	8,698.9	-105.4	29.6	-105.3	0.00	0.00	0.00
8,800.0	1.11	164.29	8,798.9	-107.3	30.2	-107.2	0.00	0.00	0.00
8,900.0	1.11	164.29	8,898.9	-109.2	30.7	-109.1	0.00	0.00	0.00
9,000.0	1.11	164.29	8,998.9	-111.0	31.2	-110.9	0.00	0.00	0.00
9,100.0	1.11	164.29	9,098.9	-112.9	31.7	-112.8	0.00	0.00	0.00
9,200.0	1.11	164.29	9,198.8	-114.8	32.3	-114.7	0.00	0.00	0.00
9,300.0	1.11	164.29	9,298.8	-116.6	32.8	-116.5	0.00	0.00	0.00
9,400.0	1.11	164.29	9,398.8	-118.5	33.3	-118.4	0.00	0.00	0.00
9,500.0	1.11	164.29	9,498.8	-120.4	33.8	-120.3	0.00	0.00	0.00



Survey Report

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Red Raider 25 State Com
Well: #702H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #702H
TVD Reference: KB = 25 @ 3529.0usft
MD Reference: KB = 25 @ 3529.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.14

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	1.11	164.29	9,598.8	-122.2	34.4	-122.1	0.00	0.00	0.00
9,700.0	1.11	164.29	9,698.8	-124.1	34.9	-124.0	0.00	0.00	0.00
9,800.0	1.11	164.29	9,798.7	-126.0	35.4	-125.9	0.00	0.00	0.00
9,900.0	1.11	164.29	9,898.7	-127.8	36.0	-127.7	0.00	0.00	0.00
10,000.0	1.11	164.29	9,998.7	-129.7	36.5	-129.6	0.00	0.00	0.00
10,100.0	1.11	164.29	10,098.7	-131.6	37.0	-131.5	0.00	0.00	0.00
10,200.0	1.11	164.29	10,198.7	-133.4	37.5	-133.3	0.00	0.00	0.00
10,300.0	1.11	164.29	10,298.6	-135.3	38.1	-135.2	0.00	0.00	0.00
10,400.0	1.11	164.29	10,398.6	-137.2	38.6	-137.1	0.00	0.00	0.00
10,500.0	1.11	164.29	10,498.6	-139.0	39.1	-138.9	0.00	0.00	0.00
10,600.0	1.11	164.29	10,598.6	-140.9	39.6	-140.8	0.00	0.00	0.00
10,700.0	1.11	164.29	10,698.6	-142.8	40.2	-142.7	0.00	0.00	0.00
10,800.0	1.11	164.29	10,798.5	-144.6	40.7	-144.5	0.00	0.00	0.00
10,900.0	1.11	164.29	10,898.5	-146.5	41.2	-146.4	0.00	0.00	0.00
11,000.0	1.11	164.29	10,998.5	-148.4	41.7	-148.3	0.00	0.00	0.00
11,100.0	1.11	164.29	11,098.5	-150.2	42.3	-150.1	0.00	0.00	0.00
11,200.0	1.11	164.29	11,198.5	-152.1	42.8	-152.0	0.00	0.00	0.00
11,300.0	1.11	164.29	11,298.5	-154.0	43.3	-153.9	0.00	0.00	0.00
11,400.0	1.11	164.29	11,398.4	-155.8	43.8	-155.7	0.00	0.00	0.00
11,500.0	1.11	164.29	11,498.4	-157.7	44.4	-157.6	0.00	0.00	0.00
11,600.0	1.11	164.29	11,598.4	-159.6	44.9	-159.5	0.00	0.00	0.00
11,700.0	1.11	164.29	11,698.4	-161.4	45.4	-161.3	0.00	0.00	0.00
11,800.0	1.11	164.29	11,798.4	-163.3	45.9	-163.2	0.00	0.00	0.00
11,900.0	1.11	164.29	11,898.3	-165.2	46.5	-165.1	0.00	0.00	0.00
11,910.3	1.11	164.29	11,908.6	-165.4	46.5	-165.2	0.00	0.00	0.00
11,925.0	0.75	22.45	11,923.3	-165.4	46.6	-165.3	12.00	-2.42	-962.90
11,950.0	3.71	4.12	11,948.3	-164.5	46.7	-164.3	12.00	11.81	-73.34
11,975.0	6.70	2.08	11,973.2	-162.2	46.8	-162.1	12.00	11.98	-8.14
12,000.0	9.70	1.30	11,997.9	-158.6	46.9	-158.5	12.00	11.99	-3.12
12,025.0	12.70	0.89	12,022.5	-153.8	47.0	-153.7	12.00	12.00	-1.66
12,050.0	15.70	0.63	12,046.7	-147.6	47.1	-147.5	12.00	12.00	-1.03
12,075.0	18.70	0.45	12,070.6	-140.3	47.2	-140.1	12.00	12.00	-0.71
12,100.0	21.70	0.32	12,094.0	-131.6	47.2	-131.5	12.00	12.00	-0.52
12,125.0	24.70	0.22	12,117.0	-121.8	47.3	-121.7	12.00	12.00	-0.40
12,150.0	27.70	0.15	12,139.4	-110.7	47.3	-110.6	12.00	12.00	-0.32
12,175.0	30.70	0.08	12,161.3	-98.6	47.3	-98.4	12.00	12.00	-0.26
12,200.0	33.70	0.03	12,182.4	-85.2	47.3	-85.1	12.00	12.00	-0.22
12,225.0	36.70	359.98	12,202.9	-70.8	47.3	-70.7	12.00	12.00	-0.19
12,250.0	39.70	359.94	12,222.5	-55.4	47.3	-55.2	12.00	12.00	-0.16
12,275.0	42.70	359.90	12,241.3	-38.9	47.3	-38.8	12.00	12.00	-0.14
12,300.0	45.70	359.87	12,259.2	-21.5	47.3	-21.4	12.00	12.00	-0.13
12,325.0	48.70	359.84	12,276.2	-3.1	47.2	-3.0	12.00	12.00	-0.11
12,350.0	51.70	359.82	12,292.2	16.1	47.2	16.2	12.00	12.00	-0.10



Survey Report

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Red Raider 25 State Com
Well: #702H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #702H
TVD Reference: KB = 25 @ 3529.0usft
MD Reference: KB = 25 @ 3529.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.14

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)
12,375.0	54.70	359.79	12,307.2	36.1	47.1	36.2	12.00	12.00	-0.10
12,400.0	57.70	359.77	12,321.1	56.9	47.0	57.0	12.00	12.00	-0.09
12,425.0	60.70	359.75	12,333.9	78.3	46.9	78.4	12.00	12.00	-0.08
12,450.0	63.70	359.73	12,345.6	100.4	46.8	100.6	12.00	12.00	-0.08
12,475.0	66.70	359.71	12,356.0	123.1	46.7	123.2	12.00	12.00	-0.07
12,479.1	67.19	359.71	12,357.7	126.9	46.7	127.1	12.00	12.00	-0.07
FTP(RR 25 St Com #702H)									
12,500.0	69.70	359.70	12,365.3	146.3	46.6	146.5	12.00	12.00	-0.07
12,525.0	72.70	359.68	12,373.4	170.0	46.5	170.1	12.00	12.00	-0.07
12,550.0	75.70	359.66	12,380.2	194.0	46.3	194.2	12.00	12.00	-0.07
12,575.0	78.70	359.65	12,385.7	218.4	46.2	218.5	12.00	12.00	-0.06
12,600.0	81.70	359.63	12,390.0	243.1	46.0	243.2	12.00	12.00	-0.06
12,625.0	84.70	359.61	12,393.0	267.9	45.9	268.0	12.00	12.00	-0.06
12,650.0	87.70	359.60	12,394.6	292.8	45.7	292.9	12.00	12.00	-0.06
12,669.2	90.00	359.59	12,395.0	312.0	45.6	312.1	12.00	12.00	-0.06
12,700.0	90.00	359.59	12,395.0	342.8	45.3	342.9	0.00	0.00	0.00
12,800.0	90.00	359.59	12,395.0	442.8	44.6	442.9	0.00	0.00	0.00
12,900.0	90.00	359.59	12,395.0	542.8	43.9	542.9	0.00	0.00	0.00
13,000.0	90.00	359.59	12,395.0	642.8	43.2	642.9	0.00	0.00	0.00
13,100.0	90.00	359.59	12,395.0	742.8	42.5	742.9	0.00	0.00	0.00
13,200.0	90.00	359.59	12,395.0	842.8	41.7	842.9	0.00	0.00	0.00
13,300.0	90.00	359.59	12,395.0	942.8	41.0	942.9	0.00	0.00	0.00
13,400.0	90.00	359.59	12,395.0	1,042.8	40.3	1,042.9	0.00	0.00	0.00
13,500.0	90.00	359.59	12,395.0	1,142.8	39.6	1,142.9	0.00	0.00	0.00
13,600.0	90.00	359.59	12,395.0	1,242.8	38.9	1,242.9	0.00	0.00	0.00
13,700.0	90.00	359.59	12,395.0	1,342.8	38.1	1,342.9	0.00	0.00	0.00
13,800.0	90.00	359.59	12,395.0	1,442.8	37.4	1,442.9	0.00	0.00	0.00
13,900.0	90.00	359.59	12,395.0	1,542.8	36.7	1,542.9	0.00	0.00	0.00
14,000.0	90.00	359.59	12,395.0	1,642.8	36.0	1,642.9	0.00	0.00	0.00
14,100.0	90.00	359.59	12,395.0	1,742.8	35.2	1,742.9	0.00	0.00	0.00
14,200.0	90.00	359.59	12,395.0	1,842.8	34.5	1,842.9	0.00	0.00	0.00
14,300.0	90.00	359.59	12,395.0	1,942.8	33.8	1,942.9	0.00	0.00	0.00
14,400.0	90.00	359.59	12,395.0	2,042.8	33.1	2,042.8	0.00	0.00	0.00
14,500.0	90.00	359.59	12,395.0	2,142.8	32.4	2,142.8	0.00	0.00	0.00
14,600.0	90.00	359.59	12,395.0	2,242.8	31.6	2,242.8	0.00	0.00	0.00
14,700.0	90.00	359.59	12,395.0	2,342.8	30.9	2,342.8	0.00	0.00	0.00
14,800.0	90.00	359.59	12,395.0	2,442.8	30.2	2,442.8	0.00	0.00	0.00
14,900.0	90.00	359.59	12,395.0	2,542.8	29.5	2,542.8	0.00	0.00	0.00
15,000.0	90.00	359.59	12,395.0	2,642.7	28.8	2,642.8	0.00	0.00	0.00
15,100.0	90.00	359.59	12,395.0	2,742.7	28.0	2,742.8	0.00	0.00	0.00
15,200.0	90.00	359.59	12,395.0	2,842.7	27.3	2,842.8	0.00	0.00	0.00
15,300.0	90.00	359.59	12,395.0	2,942.7	26.6	2,942.8	0.00	0.00	0.00
15,400.0	90.00	359.59	12,395.0	3,042.7	25.9	3,042.8	0.00	0.00	0.00
15,500.0	90.00	359.59	12,395.0	3,142.7	25.2	3,142.8	0.00	0.00	0.00



Survey Report

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Red Raider 25 State Com
Well: #702H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #702H
TVD Reference: KB = 25 @ 3529.0usft
MD Reference: KB = 25 @ 3529.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.14

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)
15,600.0	90.00	359.59	12,395.0	3,242.7	24.4	3,242.8	0.00	0.00	0.00
15,700.0	90.00	359.59	12,395.0	3,342.7	23.7	3,342.8	0.00	0.00	0.00
15,800.0	90.00	359.59	12,395.0	3,442.7	23.0	3,442.8	0.00	0.00	0.00
15,900.0	90.00	359.59	12,395.0	3,542.7	22.3	3,542.8	0.00	0.00	0.00
16,000.0	90.00	359.59	12,395.0	3,642.7	21.6	3,642.8	0.00	0.00	0.00
16,100.0	90.00	359.59	12,395.0	3,742.7	20.8	3,742.8	0.00	0.00	0.00
16,200.0	90.00	359.59	12,395.0	3,842.7	20.1	3,842.8	0.00	0.00	0.00
16,300.0	90.00	359.59	12,395.0	3,942.7	19.4	3,942.8	0.00	0.00	0.00
16,400.0	90.00	359.59	12,395.0	4,042.7	18.7	4,042.7	0.00	0.00	0.00
16,500.0	90.00	359.59	12,395.0	4,142.7	18.0	4,142.7	0.00	0.00	0.00
16,600.0	90.00	359.59	12,395.0	4,242.7	17.2	4,242.7	0.00	0.00	0.00
16,700.0	90.00	359.59	12,395.0	4,342.7	16.5	4,342.7	0.00	0.00	0.00
16,800.0	90.00	359.59	12,395.0	4,442.7	15.8	4,442.7	0.00	0.00	0.00
16,900.0	90.00	359.59	12,395.0	4,542.7	15.1	4,542.7	0.00	0.00	0.00
17,000.0	90.00	359.59	12,395.0	4,642.7	14.3	4,642.7	0.00	0.00	0.00
17,100.0	90.00	359.59	12,395.0	4,742.7	13.6	4,742.7	0.00	0.00	0.00
17,187.3	90.00	359.59	12,395.0	4,830.0	13.0	4,830.0	0.00	0.00	0.00

PBHL(RR 25 St Com #702H)

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
FTP(RR 25 St Com #70: - plan misses target center by 40.2usft at 12479.1usft MD (12357.7 TVD, 126.9 N, 46.7 E) - Point	0.00	0.00	12,395.0	112.0	47.0	430,974.00	792,886.00	32° 10' 55.963 N	103° 31' 12.918 W
PBHL(RR 25 St Com #7 - plan hits target center - Point	0.00	0.00	12,395.0	4,830.0	13.0	435,692.00	792,852.00	32° 11' 42.650 N	103° 31' 12.899 W

Checked By: _____ Approved By: _____ Date: _____