



HOBBS OCD
FEB 09 2018
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EOG Resources - Midland

Lea County, NM (NAD 83 NME)
Red Raider 25 State Com
#703H

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: #703H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #703H
TVD Reference: KB = 25 @ 3530.0usft
MD Reference: KB = 25 @ 3530.0usft
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	#703H					
Well Position	+N/-S	0.0 usft	Northing:	430,858.00 usft	Latitude:	32° 10' 54.821 N
	+E/-W	0.0 usft	Easting:	792,806.00 usft	Longitude:	103° 31' 13.859 W
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,505.0 usft	

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
	IGRF2015	2/7/2018	(°)	(°)	(nT)
			6.86	60.02	47,851.68893183

Design	Plan #0.1				
Audit Notes:					
Version:		Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction	
	(usft)	(usft)	(usft)	(°)	
	0.0	0.0	0.0	354.40	

Survey Tool Program	Date 2/8/2018			
From	To	Survey (Wellbore)	Tool Name	Description
(usft)	(usft)			
0.0	17,204.6	Plan #0.1 (OH)	MWD	MWD - Standard

Planned 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)
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



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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	248.56	3,100.0	-0.3	-0.8	-0.2	1.00	1.00	0.00
3,200.0	2.00	248.56	3,200.0	-1.3	-3.2	-1.0	1.00	1.00	0.00
3,291.7	2.92	248.56	3,291.6	-2.7	-6.9	-2.0	1.00	1.00	0.00
3,300.0	2.92	248.56	3,299.9	-2.9	-7.3	-2.1	0.00	0.00	0.00
3,400.0	2.92	248.56	3,399.7	-4.7	-12.0	-3.5	0.00	0.00	0.00
3,500.0	2.92	248.56	3,499.6	-6.6	-16.8	-4.9	0.00	0.00	0.00
3,600.0	2.92	248.56	3,599.5	-8.4	-21.5	-6.3	0.00	0.00	0.00
3,700.0	2.92	248.56	3,699.3	-10.3	-26.2	-7.7	0.00	0.00	0.00
3,800.0	2.92	248.56	3,799.2	-12.2	-31.0	-9.1	0.00	0.00	0.00
3,900.0	2.92	248.56	3,899.1	-14.0	-35.7	-10.5	0.00	0.00	0.00
4,000.0	2.92	248.56	3,999.0	-15.9	-40.5	-11.9	0.00	0.00	0.00
4,100.0	2.92	248.56	4,098.8	-17.7	-45.2	-13.2	0.00	0.00	0.00
4,200.0	2.92	248.56	4,198.7	-19.6	-49.9	-14.6	0.00	0.00	0.00
4,300.0	2.92	248.56	4,298.6	-21.5	-54.7	-16.0	0.00	0.00	0.00
4,400.0	2.92	248.56	4,398.4	-23.3	-59.4	-17.4	0.00	0.00	0.00
4,500.0	2.92	248.56	4,498.3	-25.2	-64.1	-18.8	0.00	0.00	0.00
4,600.0	2.92	248.56	4,598.2	-27.0	-68.9	-20.2	0.00	0.00	0.00
4,700.0	2.92	248.56	4,698.0	-28.9	-73.6	-21.6	0.00	0.00	0.00
4,800.0	2.92	248.56	4,797.9	-30.8	-78.4	-23.0	0.00	0.00	0.00
4,900.0	2.92	248.56	4,897.8	-32.6	-83.1	-24.4	0.00	0.00	0.00
5,000.0	2.92	248.56	4,997.7	-34.5	-87.8	-25.7	0.00	0.00	0.00
5,100.0	2.92	248.56	5,097.5	-36.3	-92.6	-27.1	0.00	0.00	0.00
5,200.0	2.92	248.56	5,197.4	-38.2	-97.3	-28.5	0.00	0.00	0.00



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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	2.92	248.56	5,297.3	-40.1	-102.0	-29.9	0.00	0.00	0.00
5,400.0	2.92	248.56	5,397.1	-41.9	-106.8	-31.3	0.00	0.00	0.00
5,500.0	2.92	248.56	5,497.0	-43.8	-111.5	-32.7	0.00	0.00	0.00
5,600.0	2.92	248.56	5,596.9	-45.6	-116.2	-34.1	0.00	0.00	0.00
5,700.0	2.92	248.56	5,696.8	-47.5	-121.0	-35.5	0.00	0.00	0.00
5,800.0	2.92	248.56	5,796.6	-49.4	-125.7	-36.8	0.00	0.00	0.00
5,900.0	2.92	248.56	5,896.5	-51.2	-130.5	-38.2	0.00	0.00	0.00
6,000.0	2.92	248.56	5,996.4	-53.1	-135.2	-39.6	0.00	0.00	0.00
6,100.0	2.92	248.56	6,096.2	-54.9	-139.9	-41.0	0.00	0.00	0.00
6,200.0	2.92	248.56	6,196.1	-56.8	-144.7	-42.4	0.00	0.00	0.00
6,300.0	2.92	248.56	6,296.0	-58.7	-149.4	-43.8	0.00	0.00	0.00
6,400.0	2.92	248.56	6,395.8	-60.5	-154.1	-45.2	0.00	0.00	0.00
6,500.0	2.92	248.56	6,495.7	-62.4	-158.9	-46.6	0.00	0.00	0.00
6,600.0	2.92	248.56	6,595.6	-64.2	-163.6	-48.0	0.00	0.00	0.00
6,700.0	2.92	248.56	6,695.5	-66.1	-168.3	-49.3	0.00	0.00	0.00
6,800.0	2.92	248.56	6,795.3	-68.0	-173.1	-50.7	0.00	0.00	0.00
6,900.0	2.92	248.56	6,895.2	-69.8	-177.8	-52.1	0.00	0.00	0.00
7,000.0	2.92	248.56	6,995.1	-71.7	-182.6	-53.5	0.00	0.00	0.00
7,100.0	2.92	248.56	7,094.9	-73.5	-187.3	-54.9	0.00	0.00	0.00
7,200.0	2.92	248.56	7,194.8	-75.4	-192.0	-56.3	0.00	0.00	0.00
7,300.0	2.92	248.56	7,294.7	-77.3	-196.8	-57.7	0.00	0.00	0.00
7,400.0	2.92	248.56	7,394.6	-79.1	-201.5	-59.1	0.00	0.00	0.00
7,500.0	2.92	248.56	7,494.4	-81.0	-206.2	-60.5	0.00	0.00	0.00
7,600.0	2.92	248.56	7,594.3	-82.8	-211.0	-61.8	0.00	0.00	0.00
7,700.0	2.92	248.56	7,694.2	-84.7	-215.7	-63.2	0.00	0.00	0.00
7,800.0	2.92	248.56	7,794.0	-86.6	-220.5	-64.6	0.00	0.00	0.00
7,900.0	2.92	248.56	7,893.9	-88.4	-225.2	-66.0	0.00	0.00	0.00
8,000.0	2.92	248.56	7,993.8	-90.3	-229.9	-67.4	0.00	0.00	0.00
8,100.0	2.92	248.56	8,093.6	-92.1	-234.7	-68.8	0.00	0.00	0.00
8,200.0	2.92	248.56	8,193.5	-94.0	-239.4	-70.2	0.00	0.00	0.00
8,300.0	2.92	248.56	8,293.4	-95.9	-244.1	-71.6	0.00	0.00	0.00
8,400.0	2.92	248.56	8,393.3	-97.7	-248.9	-72.9	0.00	0.00	0.00
8,500.0	2.92	248.56	8,493.1	-99.6	-253.6	-74.3	0.00	0.00	0.00
8,600.0	2.92	248.56	8,593.0	-101.4	-258.3	-75.7	0.00	0.00	0.00
8,700.0	2.92	248.56	8,692.9	-103.3	-263.1	-77.1	0.00	0.00	0.00
8,800.0	2.92	248.56	8,792.7	-105.1	-267.8	-78.5	0.00	0.00	0.00
8,900.0	2.92	248.56	8,892.6	-107.0	-272.6	-79.9	0.00	0.00	0.00
9,000.0	2.92	248.56	8,992.5	-108.9	-277.3	-81.3	0.00	0.00	0.00
9,100.0	2.92	248.56	9,092.3	-110.7	-282.0	-82.7	0.00	0.00	0.00
9,200.0	2.92	248.56	9,192.2	-112.6	-286.8	-84.1	0.00	0.00	0.00
9,300.0	2.92	248.56	9,292.1	-114.4	-291.5	-85.4	0.00	0.00	0.00
9,400.0	2.92	248.56	9,392.0	-116.3	-296.2	-86.8	0.00	0.00	0.00
9,500.0	2.92	248.56	9,491.8	-118.2	-301.0	-88.2	0.00	0.00	0.00



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9,600.0	2.92	248.56	9,591.7	-120.0	-305.7	-89.6	0.00	0.00	0.00
9,700.0	2.92	248.56	9,691.6	-121.9	-310.4	-91.0	0.00	0.00	0.00
9,800.0	2.92	248.56	9,791.4	-123.7	-315.2	-92.4	0.00	0.00	0.00
9,900.0	2.92	248.56	9,891.3	-125.6	-319.9	-93.8	0.00	0.00	0.00
10,000.0	2.92	248.56	9,991.2	-127.5	-324.7	-95.2	0.00	0.00	0.00
10,100.0	2.92	248.56	10,091.1	-129.3	-329.4	-96.5	0.00	0.00	0.00
10,200.0	2.92	248.56	10,190.9	-131.2	-334.1	-97.9	0.00	0.00	0.00
10,300.0	2.92	248.56	10,290.8	-133.0	-338.9	-99.3	0.00	0.00	0.00
10,400.0	2.92	248.56	10,390.7	-134.9	-343.6	-100.7	0.00	0.00	0.00
10,500.0	2.92	248.56	10,490.5	-136.8	-348.3	-102.1	0.00	0.00	0.00
10,600.0	2.92	248.56	10,590.4	-138.6	-353.1	-103.5	0.00	0.00	0.00
10,700.0	2.92	248.56	10,690.3	-140.5	-357.8	-104.9	0.00	0.00	0.00
10,800.0	2.92	248.56	10,790.1	-142.3	-362.6	-106.3	0.00	0.00	0.00
10,900.0	2.92	248.56	10,890.0	-144.2	-367.3	-107.7	0.00	0.00	0.00
11,000.0	2.92	248.56	10,989.9	-146.1	-372.0	-109.0	0.00	0.00	0.00
11,100.0	2.92	248.56	11,089.8	-147.9	-376.8	-110.4	0.00	0.00	0.00
11,200.0	2.92	248.56	11,189.6	-149.8	-381.5	-111.8	0.00	0.00	0.00
11,300.0	2.92	248.56	11,289.5	-151.6	-386.2	-113.2	0.00	0.00	0.00
11,400.0	2.92	248.56	11,389.4	-153.5	-391.0	-114.6	0.00	0.00	0.00
11,500.0	2.92	248.56	11,489.2	-155.4	-395.7	-116.0	0.00	0.00	0.00
11,600.0	2.92	248.56	11,589.1	-157.2	-400.4	-117.4	0.00	0.00	0.00
11,700.0	2.92	248.56	11,689.0	-159.1	-405.2	-118.8	0.00	0.00	0.00
11,800.0	2.92	248.56	11,788.9	-160.9	-409.9	-120.2	0.00	0.00	0.00
11,900.0	2.92	248.56	11,888.7	-162.8	-414.7	-121.5	0.00	0.00	0.00
11,927.7	2.92	248.56	11,916.4	-163.3	-416.0	-121.9	0.00	0.00	0.00
11,950.0	3.17	300.56	11,938.7	-163.2	-417.0	-121.7	12.00	1.15	232.91
11,975.0	5.37	329.22	11,963.6	-161.9	-418.2	-120.2	12.00	8.79	114.64
12,000.0	8.10	340.08	11,988.4	-159.2	-419.4	-117.5	12.00	10.92	43.45
12,025.0	10.97	345.40	12,013.1	-155.2	-420.6	-113.4	12.00	11.48	21.28
12,050.0	13.90	348.52	12,037.5	-150.0	-421.8	-108.1	12.00	11.70	12.47
12,075.0	16.85	350.56	12,061.6	-143.5	-423.0	-101.5	12.00	11.80	8.19
12,100.0	19.81	352.01	12,085.3	-135.7	-424.2	-93.6	12.00	11.86	5.80
12,125.0	22.79	353.10	12,108.6	-126.7	-425.4	-84.6	12.00	11.90	4.34
12,150.0	25.77	353.95	12,131.4	-116.5	-426.5	-74.3	12.00	11.92	3.38
12,175.0	28.75	354.63	12,153.6	-105.1	-427.7	-62.8	12.00	11.94	2.73
12,200.0	31.74	355.19	12,175.2	-92.5	-428.8	-50.2	12.00	11.95	2.25
12,225.0	34.73	355.66	12,196.1	-78.9	-429.9	-36.5	12.00	11.95	1.90
12,250.0	37.72	356.07	12,216.3	-64.2	-430.9	-21.8	12.00	11.96	1.64
12,275.0	40.71	356.43	12,235.6	-48.4	-432.0	-6.0	12.00	11.97	1.43
12,300.0	43.70	356.75	12,254.2	-31.6	-433.0	10.8	12.00	11.97	1.26
12,325.0	46.69	357.03	12,271.8	-13.9	-433.9	28.5	12.00	11.97	1.13
12,350.0	49.69	357.29	12,288.4	4.7	-434.8	47.1	12.00	11.98	1.03
12,375.0	52.68	357.52	12,304.1	24.1	-435.7	66.6	12.00	11.98	0.94



Survey Report

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 Well: #703H
 Wellbore: OH
 Design: Plan #0.1

Local Co-ordinate Reference: Well #703H
 TVD Reference: KB = 25 @ 3530.0usft
 MD Reference: KB = 25 @ 3530.0usft
 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)
12,400.0	55.68	357.74	12,318.7	44.4	-436.6	86.8	12.00	11.98	0.87
12,425.0	58.67	357.94	12,332.3	65.4	-437.3	107.8	12.00	11.98	0.81
12,450.0	61.67	358.13	12,344.7	87.1	-438.1	129.4	12.00	11.98	0.76
12,475.0	64.66	358.31	12,356.0	109.4	-438.8	151.7	12.00	11.98	0.72
12,497.9	67.41	358.47	12,365.3	130.3	-439.4	172.5	12.00	11.98	0.68
FTP(RR 25 St Com #703H)									
12,500.0	67.66	358.48	12,366.1	132.2	-439.4	174.5	12.00	11.98	0.67
12,525.0	70.65	358.64	12,375.0	155.6	-440.0	197.8	12.00	11.98	0.65
12,550.0	73.65	358.80	12,382.7	179.4	-440.5	221.5	12.00	11.99	0.63
12,575.0	76.65	358.95	12,389.1	203.5	-441.0	245.6	12.00	11.99	0.61
12,600.0	79.64	359.10	12,394.2	228.0	-441.4	270.0	12.00	11.99	0.60
12,625.0	82.64	359.25	12,398.1	252.7	-441.8	294.6	12.00	11.99	0.58
12,650.0	85.64	359.39	12,400.6	277.5	-442.1	319.4	12.00	11.99	0.58
12,675.0	88.63	359.53	12,401.9	302.5	-442.3	344.2	12.00	11.99	0.57
12,686.4	90.00	359.60	12,402.0	313.9	-442.4	355.6	12.00	11.99	0.57
12,700.0	90.00	359.60	12,402.0	327.5	-442.5	369.1	0.00	0.00	0.00
12,800.0	90.00	359.60	12,402.0	427.5	-443.2	468.7	0.00	0.00	0.00
12,900.0	90.00	359.60	12,402.0	527.5	-443.9	568.3	0.00	0.00	0.00
13,000.0	90.00	359.60	12,402.0	627.5	-444.6	667.9	0.00	0.00	0.00
13,100.0	90.00	359.60	12,402.0	727.5	-445.3	767.5	0.00	0.00	0.00
13,200.0	90.00	359.60	12,402.0	827.5	-446.0	867.1	0.00	0.00	0.00
13,300.0	90.00	359.60	12,402.0	927.5	-446.7	966.7	0.00	0.00	0.00
13,400.0	90.00	359.60	12,402.0	1,027.5	-447.4	1,066.3	0.00	0.00	0.00
13,500.0	90.00	359.60	12,402.0	1,127.5	-448.1	1,165.8	0.00	0.00	0.00
13,600.0	90.00	359.60	12,402.0	1,227.5	-448.8	1,265.4	0.00	0.00	0.00
13,700.0	90.00	359.60	12,402.0	1,327.5	-449.5	1,365.0	0.00	0.00	0.00
13,800.0	90.00	359.60	12,402.0	1,427.5	-450.2	1,464.6	0.00	0.00	0.00
13,900.0	90.00	359.60	12,402.0	1,527.5	-450.9	1,564.2	0.00	0.00	0.00
14,000.0	90.00	359.60	12,402.0	1,627.5	-451.6	1,663.8	0.00	0.00	0.00
14,100.0	90.00	359.60	12,402.0	1,727.5	-452.3	1,763.4	0.00	0.00	0.00
14,200.0	90.00	359.60	12,402.0	1,827.5	-453.0	1,863.0	0.00	0.00	0.00
14,300.0	90.00	359.60	12,402.0	1,927.5	-453.7	1,962.5	0.00	0.00	0.00
14,400.0	90.00	359.60	12,402.0	2,027.5	-454.4	2,062.1	0.00	0.00	0.00
14,500.0	90.00	359.60	12,402.0	2,127.5	-455.1	2,161.7	0.00	0.00	0.00
14,600.0	90.00	359.60	12,402.0	2,227.5	-455.8	2,261.3	0.00	0.00	0.00
14,700.0	90.00	359.60	12,402.0	2,327.4	-456.5	2,360.9	0.00	0.00	0.00
14,800.0	90.00	359.60	12,402.0	2,427.4	-457.2	2,460.5	0.00	0.00	0.00
14,900.0	90.00	359.60	12,402.0	2,527.4	-457.9	2,560.1	0.00	0.00	0.00
15,000.0	90.00	359.60	12,402.0	2,627.4	-458.6	2,659.7	0.00	0.00	0.00
15,100.0	90.00	359.60	12,402.0	2,727.4	-459.3	2,759.2	0.00	0.00	0.00
15,200.0	90.00	359.60	12,402.0	2,827.4	-460.0	2,858.8	0.00	0.00	0.00
15,300.0	90.00	359.60	12,402.0	2,927.4	-460.7	2,958.4	0.00	0.00	0.00
15,400.0	90.00	359.60	12,402.0	3,027.4	-461.4	3,058.0	0.00	0.00	0.00
15,500.0	90.00	359.60	12,402.0	3,127.4	-462.1	3,157.6	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: #703H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #703H
TVD Reference: KB = 25 @ 3530.0usft
MD Reference: KB = 25 @ 3530.0usft
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	359.60	12,402.0	3,227.4	-462.8	3,257.2	0.00	0.00	0.00
15,700.0	90.00	359.60	12,402.0	3,327.4	-463.5	3,356.8	0.00	0.00	0.00
15,800.0	90.00	359.60	12,402.0	3,427.4	-464.2	3,456.4	0.00	0.00	0.00
15,900.0	90.00	359.60	12,402.0	3,527.4	-464.9	3,556.0	0.00	0.00	0.00
16,000.0	90.00	359.60	12,402.0	3,627.4	-465.6	3,655.5	0.00	0.00	0.00
16,100.0	90.00	359.60	12,402.0	3,727.4	-466.3	3,755.1	0.00	0.00	0.00
16,200.0	90.00	359.60	12,402.0	3,827.4	-467.0	3,854.7	0.00	0.00	0.00
16,300.0	90.00	359.60	12,402.0	3,927.4	-467.7	3,954.3	0.00	0.00	0.00
16,400.0	90.00	359.60	12,402.0	4,027.4	-468.4	4,053.9	0.00	0.00	0.00
16,500.0	90.00	359.60	12,402.0	4,127.4	-469.1	4,153.5	0.00	0.00	0.00
16,600.0	90.00	359.60	12,402.0	4,227.4	-469.8	4,253.1	0.00	0.00	0.00
16,700.0	90.00	359.60	12,402.0	4,327.4	-470.5	4,352.7	0.00	0.00	0.00
16,800.0	90.00	359.60	12,402.0	4,427.4	-471.2	4,452.2	0.00	0.00	0.00
16,900.0	90.00	359.60	12,402.0	4,527.4	-471.9	4,551.8	0.00	0.00	0.00
17,000.0	90.00	359.60	12,402.0	4,627.4	-472.6	4,651.4	0.00	0.00	0.00
17,100.0	90.00	359.60	12,402.0	4,727.4	-473.3	4,751.0	0.00	0.00	0.00
17,204.6	90.00	359.60	12,402.0	4,832.0	-474.0	4,855.2	0.00	0.00	0.00

PBHL(RR 25 St Com #703H)

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 12497.9usft MD (12365.3 TVD, 130.3 N, -439.4 E) - Point	0.00	0.00	12,402.0	114.0	-441.0	430,972.00	792,365.00	32° 10' 55.982 N	103° 31' 18.981 W
PBHL(RR 25 St Com #7 - plan hits target center - Point	0.00	0.00	12,402.0	4,832.0	-474.0	435,690.00	792,332.00	32° 11' 42.669 N	103° 31' 18.950 W

Checked By: _____ Approved By: _____ Date: _____



Lea County, NM (NAD 83 NME)
Red Raider 25 State Com #703H
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: #703H

KB = 25 @ 3630.0'alt
Northing 430858.00 Easting 792806.00 Latitude 32° 10' 54.821 N Longitude 103° 31' 13.689 W

SECTION DETAILS

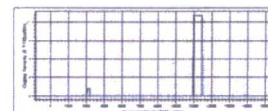
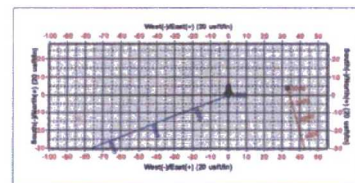
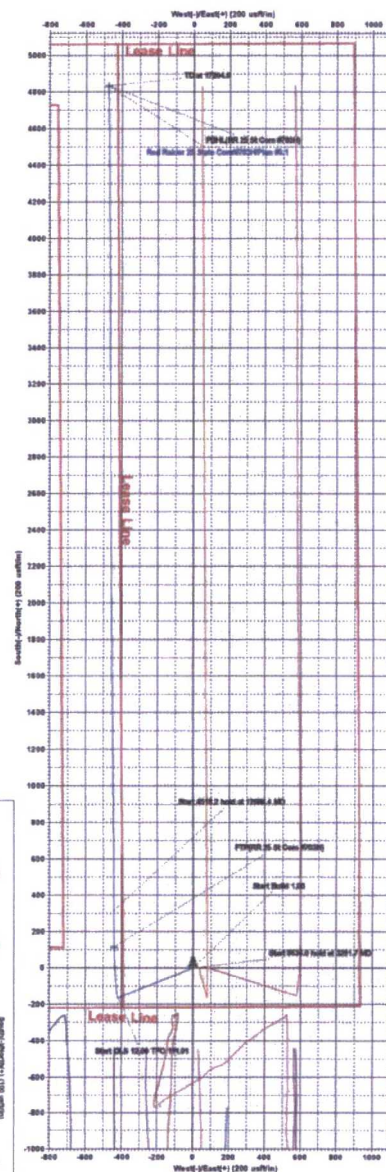
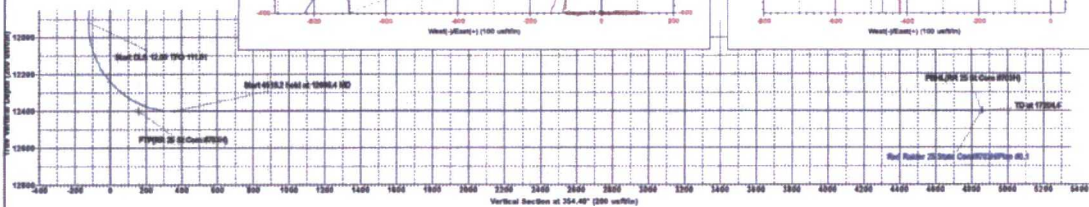
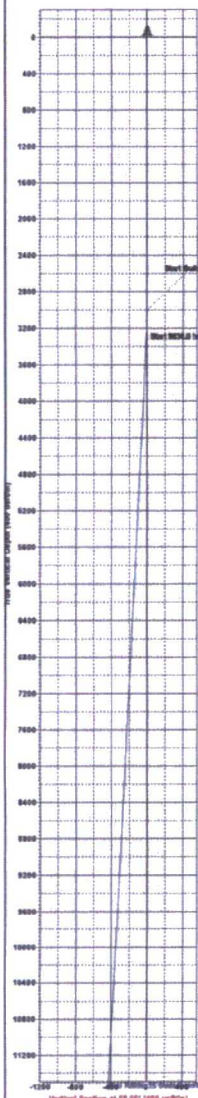
Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	VFace	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	3000.0	0.00	0.00	3000.0	0.0	0.0	0.00	0.00	0.0	
3	3291.7	2.92	248.56	3291.6	-2.7	-6.9	1.00	248.56	-2.0	
4	11927.7	2.92	248.56	11919.4	-163.3	-416.0	0.00	0.00	-121.9	
5	12686.4	90.00	359.80	12402.0	313.9	-442.4	12.00	111.01	355.6	
6	17204.6	90.00	359.80	12402.0	4832.0	-474.0	0.00	0.00	4855.2	PBHL(RR 25 St Com #703H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N-S	+E-W	Northing	Easting
FTP(RR 25 St Com #703H)	12402.0	114.0	-441.0	430872.00	792365.00
PBHL(RR 25 St Com #703H)	12402.0	4832.0	-474.0	430890.00	792332.00



Scale: 1 inch = 1000 feet
Date: 10/1/2010
By: [Signature]