



NM OIL CONSERVATION
ARTESIA DISTRICT

MAR 06 2017

RECEIVED

EOG Resources - Midland

Lea County, NM (NAD 27 NME)

Orrtanna 20 Fed

#704H

OH

Plan: Plan #0.1

Standard Planning Report

25 August, 2016



EOG Resources, Inc.

Planning Report

Database: EDM 5000.1 Single User Db
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Orrtanna 20 Fed
Well: #704H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #704H
TVD Reference: KB = 25' @ 3257.0usft
MD Reference: KB = 25' @ 3257.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Project Lea County, NM (NAD 27 NME)
Map System: US State Plane 1927 (Exact solution) **System Datum:** Mean Sea Level
Geo Datum: NAD 1927 (NADCON CONUS)
Map Zone: New Mexico East 3001

Site Orrtanna 20 Fed
Site Position: **Northing:** 372,591.00 usft **Latitude:** 32° 1' 20.073 N
From: Map **Easting:** 727,501.00 usft **Longitude:** 103° 35' 57.401 W
Position Uncertainty: 0.0 usft **Slot Radius:** 13-3/16 " **Grid Convergence:** 0.39 °

Well #704H
Well Position **+N/-S** 9.0 usft **Northing:** 372,600.00 usft **Latitude:** 32° 1' 20.091 N
+E/-W 1,049.0 usft **Easting:** 728,550.00 usft **Longitude:** 103° 35' 45.217 W
Position Uncertainty 0.0 usft **Wellhead Elevation:** 0.0 usft **Ground Level:** 3,232.0 usft

Wellbore OH
Magnetics **Model Name** **Sample Date** **Declination** **Dip Angle** **Field Strength**
 (°) (°) (nT)
 IGRF2015 8/25/2016 7.04 59.88 47,900

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 3.31

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.00	0.00	0.00	0.00	
4,770.7	2.71	119.83	4,770.6	-3.2	5.5	1.00	1.00	0.00	119.83	
11,828.5	2.71	119.83	11,820.5	-169.0	294.7	0.00	0.00	0.00	0.00	
12,591.5	90.20	359.59	12,309.0	310.1	311.3	12.00	11.47	-15.76	-120.20	
17,105.5	90.20	359.59	12,293.2	4,824.0	279.0	0.00	0.00	0.00	0.00	PBHL (Orrtanna 20 Fed)



EOG Resources, Inc.
Planning Report

Database: EDM 5000.1 Single User Db
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Orrtanna 20 Fed
Well: #704H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #704H
TVD Reference: KB = 25' @ 3257.0usft
MD Reference: KB = 25' @ 3257.0usft
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	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
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
3,800.0	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
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00
4,400.0	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
4,600.0	1.00	119.83	4,600.0	-0.4	0.8	-0.4	1.00	1.00	0.00
4,700.0	2.00	119.83	4,700.0	-1.7	3.0	-1.6	1.00	1.00	0.00
4,770.7	2.71	119.83	4,770.6	-3.2	5.5	-2.9	1.00	1.00	0.00
4,800.0	2.71	119.83	4,799.9	-3.9	6.7	-3.5	0.00	0.00	0.00
4,900.0	2.71	119.83	4,899.8	-6.2	10.8	-5.6	0.00	0.00	0.00
5,000.0	2.71	119.83	4,999.6	-8.6	14.9	-7.7	0.00	0.00	0.00
5,100.0	2.71	119.83	5,099.5	-10.9	19.0	-9.8	0.00	0.00	0.00
5,200.0	2.71	119.83	5,199.4	-13.3	23.1	-11.9	0.00	0.00	0.00



EOG Resources, Inc.

Planning Report

Database: EDM 5000.1 Single User Db
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Orrtanna 20 Fed
Well: #704H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #704H
TVD Reference: KB = 25' @ 3257.0usft
MD Reference: KB = 25' @ 3257.0usft
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)
5,300.0	2.71	119.83	5,299.3	-15.6	27.2	-14.0	0.00	0.00	0.00
5,400.0	2.71	119.83	5,399.2	-18.0	31.3	-16.1	0.00	0.00	0.00
5,500.0	2.71	119.83	5,499.1	-20.3	35.4	-18.2	0.00	0.00	0.00
5,600.0	2.71	119.83	5,599.0	-22.7	39.5	-20.3	0.00	0.00	0.00
5,700.0	2.71	119.83	5,698.9	-25.0	43.6	-22.5	0.00	0.00	0.00
5,800.0	2.71	119.83	5,798.8	-27.4	47.7	-24.6	0.00	0.00	0.00
5,900.0	2.71	119.83	5,898.6	-29.7	51.8	-26.7	0.00	0.00	0.00
6,000.0	2.71	119.83	5,998.5	-32.1	55.9	-28.8	0.00	0.00	0.00
6,100.0	2.71	119.83	6,098.4	-34.4	60.0	-30.9	0.00	0.00	0.00
6,200.0	2.71	119.83	6,198.3	-36.8	64.1	-33.0	0.00	0.00	0.00
6,300.0	2.71	119.83	6,298.2	-39.1	68.2	-35.1	0.00	0.00	0.00
6,400.0	2.71	119.83	6,398.1	-41.5	72.3	-37.2	0.00	0.00	0.00
6,500.0	2.71	119.83	6,498.0	-43.8	76.4	-39.3	0.00	0.00	0.00
6,600.0	2.71	119.83	6,597.9	-46.2	80.5	-41.4	0.00	0.00	0.00
6,700.0	2.71	119.83	6,697.7	-48.5	84.6	-43.5	0.00	0.00	0.00
6,800.0	2.71	119.83	6,797.6	-50.9	88.7	-45.6	0.00	0.00	0.00
6,900.0	2.71	119.83	6,897.5	-53.2	92.8	-47.8	0.00	0.00	0.00
7,000.0	2.71	119.83	6,997.4	-55.6	96.9	-49.9	0.00	0.00	0.00
7,100.0	2.71	119.83	7,097.3	-57.9	101.0	-52.0	0.00	0.00	0.00
7,200.0	2.71	119.83	7,197.2	-60.2	105.1	-54.1	0.00	0.00	0.00
7,300.0	2.71	119.83	7,297.1	-62.6	109.2	-56.2	0.00	0.00	0.00
7,400.0	2.71	119.83	7,397.0	-64.9	113.3	-58.3	0.00	0.00	0.00
7,500.0	2.71	119.83	7,496.9	-67.3	117.4	-60.4	0.00	0.00	0.00
7,600.0	2.71	119.83	7,596.7	-69.6	121.5	-62.5	0.00	0.00	0.00
7,700.0	2.71	119.83	7,696.6	-72.0	125.6	-64.6	0.00	0.00	0.00
7,800.0	2.71	119.83	7,796.5	-74.3	129.7	-66.7	0.00	0.00	0.00
7,900.0	2.71	119.83	7,896.4	-76.7	133.8	-68.8	0.00	0.00	0.00
8,000.0	2.71	119.83	7,996.3	-79.0	137.9	-71.0	0.00	0.00	0.00
8,100.0	2.71	119.83	8,096.2	-81.4	141.9	-73.1	0.00	0.00	0.00
8,200.0	2.71	119.83	8,196.1	-83.7	146.0	-75.2	0.00	0.00	0.00
8,300.0	2.71	119.83	8,296.0	-86.1	150.1	-77.3	0.00	0.00	0.00
8,400.0	2.71	119.83	8,395.8	-88.4	154.2	-79.4	0.00	0.00	0.00
8,500.0	2.71	119.83	8,495.7	-90.8	158.3	-81.5	0.00	0.00	0.00
8,600.0	2.71	119.83	8,595.6	-93.1	162.4	-83.6	0.00	0.00	0.00
8,700.0	2.71	119.83	8,695.5	-95.5	166.5	-85.7	0.00	0.00	0.00
8,800.0	2.71	119.83	8,795.4	-97.8	170.6	-87.8	0.00	0.00	0.00
8,900.0	2.71	119.83	8,895.3	-100.2	174.7	-89.9	0.00	0.00	0.00
9,000.0	2.71	119.83	8,995.2	-102.5	178.8	-92.0	0.00	0.00	0.00
9,100.0	2.71	119.83	9,095.1	-104.9	182.9	-94.1	0.00	0.00	0.00
9,200.0	2.71	119.83	9,195.0	-107.2	187.0	-96.3	0.00	0.00	0.00
9,300.0	2.71	119.83	9,294.8	-109.6	191.1	-98.4	0.00	0.00	0.00
9,400.0	2.71	119.83	9,394.7	-111.9	195.2	-100.5	0.00	0.00	0.00
9,500.0	2.71	119.83	9,494.6	-114.3	199.3	-102.6	0.00	0.00	0.00
9,600.0	2.71	119.83	9,594.5	-116.6	203.4	-104.7	0.00	0.00	0.00
9,700.0	2.71	119.83	9,694.4	-119.0	207.5	-106.8	0.00	0.00	0.00
9,800.0	2.71	119.83	9,794.3	-121.3	211.6	-108.9	0.00	0.00	0.00
9,900.0	2.71	119.83	9,894.2	-123.7	215.7	-111.0	0.00	0.00	0.00
10,000.0	2.71	119.83	9,994.1	-126.0	219.8	-113.1	0.00	0.00	0.00
10,100.0	2.71	119.83	10,094.0	-128.4	223.9	-115.2	0.00	0.00	0.00
10,200.0	2.71	119.83	10,193.8	-130.7	228.0	-117.3	0.00	0.00	0.00
10,300.0	2.71	119.83	10,293.7	-133.1	232.1	-119.5	0.00	0.00	0.00
10,400.0	2.71	119.83	10,393.6	-135.4	236.2	-121.6	0.00	0.00	0.00
10,500.0	2.71	119.83	10,493.5	-137.8	240.3	-123.7	0.00	0.00	0.00
10,600.0	2.71	119.83	10,593.4	-140.1	244.4	-125.8	0.00	0.00	0.00



EOG Resources, Inc.
Planning Report

Database: EDM 5000.1 Single User Db
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Orrtanna 20 Fed
Well: #704H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #704H
TVD Reference: KB = 25' @ 3257.0usft
MD Reference: KB = 25' @ 3257.0usft
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)
10,700.0	2.71	119.83	10,693.3	-142.5	248.5	-127.9	0.00	0.00	0.00
10,800.0	2.71	119.83	10,793.2	-144.8	252.6	-130.0	0.00	0.00	0.00
10,900.0	2.71	119.83	10,893.1	-147.2	256.7	-132.1	0.00	0.00	0.00
11,000.0	2.71	119.83	10,992.9	-149.5	260.8	-134.2	0.00	0.00	0.00
11,100.0	2.71	119.83	11,092.8	-151.9	264.9	-136.3	0.00	0.00	0.00
11,200.0	2.71	119.83	11,192.7	-154.2	269.0	-138.4	0.00	0.00	0.00
11,300.0	2.71	119.83	11,292.6	-156.6	273.1	-140.5	0.00	0.00	0.00
11,400.0	2.71	119.83	11,392.5	-158.9	277.2	-142.7	0.00	0.00	0.00
11,500.0	2.71	119.83	11,492.4	-161.3	281.2	-144.8	0.00	0.00	0.00
11,600.0	2.71	119.83	11,592.3	-163.6	285.3	-146.9	0.00	0.00	0.00
11,700.0	2.71	119.83	11,692.2	-166.0	289.4	-149.0	0.00	0.00	0.00
11,800.0	2.71	119.83	11,792.1	-168.3	293.5	-151.1	0.00	0.00	0.00
11,828.5	2.71	119.83	11,820.5	-169.0	294.7	-151.7	0.00	0.00	0.00
11,850.0	2.64	62.15	11,842.0	-169.0	295.6	-151.7	12.00	-0.33	-268.58
11,875.0	4.82	28.58	11,867.0	-167.8	296.6	-150.4	12.00	8.73	-134.28
11,900.0	7.58	17.47	11,891.8	-165.3	297.6	-147.9	12.00	11.05	-44.44
11,925.0	10.48	12.36	11,916.5	-161.5	298.6	-144.0	12.00	11.58	-20.43
11,950.0	13.42	9.46	11,940.9	-156.4	299.5	-138.9	12.00	11.76	-11.61
11,975.0	16.38	7.59	11,965.1	-150.1	300.5	-132.5	12.00	11.85	-7.48
12,000.0	19.35	6.28	11,988.9	-142.5	301.4	-124.8	12.00	11.89	-5.24
12,025.0	22.33	5.31	12,012.3	-133.6	302.3	-116.0	12.00	11.92	-3.89
12,050.0	25.32	4.55	12,035.1	-123.6	303.2	-105.9	12.00	11.94	-3.01
12,075.0	28.30	3.95	12,057.4	-112.3	304.0	-94.6	12.00	11.95	-2.41
12,100.0	31.29	3.45	12,079.1	-99.9	304.8	-82.2	12.00	11.96	-1.99
12,125.0	34.28	3.03	12,100.1	-86.4	305.6	-68.6	12.00	11.97	-1.67
12,150.0	37.28	2.67	12,120.4	-71.8	306.3	-54.0	12.00	11.97	-1.43
12,175.0	40.27	2.36	12,139.9	-56.2	307.0	-38.4	12.00	11.97	-1.25
12,200.0	43.27	2.09	12,158.6	-39.5	307.6	-21.7	12.00	11.98	-1.11
12,225.0	46.26	1.84	12,176.3	-21.9	308.2	-4.1	12.00	11.98	-0.99
12,250.0	49.26	1.61	12,193.1	-3.4	308.8	14.4	12.00	11.98	-0.89
12,275.0	52.25	1.41	12,208.9	15.9	309.3	33.7	12.00	11.98	-0.82
12,300.0	55.25	1.22	12,223.7	36.1	309.7	53.9	12.00	11.98	-0.75
12,325.0	58.24	1.05	12,237.4	57.0	310.2	74.8	12.00	11.99	-0.70
12,350.0	61.24	0.88	12,250.0	78.5	310.5	96.3	12.00	11.99	-0.66
12,375.0	64.24	0.73	12,261.5	100.8	310.8	118.5	12.00	11.99	-0.62
12,400.0	67.23	0.58	12,271.7	123.6	311.1	141.3	12.00	11.99	-0.59
12,425.0	70.23	0.44	12,280.8	146.8	311.3	164.6	12.00	11.99	-0.56
12,425.2	70.23	0.44	12,280.9	147.0	311.3	164.8	0.00	0.00	0.00
FTP (Orrtanna 20 Fed #704H)									
12,450.0	73.23	0.30	12,288.6	170.6	311.4	188.3	12.10	12.09	-0.55
12,475.0	76.23	0.17	12,295.2	194.7	311.5	212.4	12.00	11.99	-0.53
12,500.0	79.22	0.04	12,300.5	219.1	311.6	236.7	12.00	11.99	-0.51
12,525.0	82.22	359.92	12,304.6	243.8	311.6	261.4	12.00	11.99	-0.50
12,550.0	85.22	359.79	12,307.3	268.6	311.5	286.2	12.00	11.99	-0.50
12,575.0	88.22	359.67	12,308.7	293.6	311.4	311.1	12.00	11.99	-0.49
12,591.5	90.20	359.59	12,309.0	310.1	311.3	327.6	12.00	11.99	-0.49
12,600.0	90.20	359.59	12,308.9	318.6	311.2	336.0	0.00	0.00	0.00
12,700.0	90.20	359.59	12,308.6	418.6	310.5	435.8	0.00	0.00	0.00
12,800.0	90.20	359.59	12,308.2	518.6	309.8	535.6	0.00	0.00	0.00
12,900.0	90.20	359.59	12,307.9	618.6	309.1	635.4	0.00	0.00	0.00
13,000.0	90.20	359.59	12,307.5	718.6	308.4	735.2	0.00	0.00	0.00
13,100.0	90.20	359.59	12,307.2	818.6	307.7	835.0	0.00	0.00	0.00
13,200.0	90.20	359.59	12,306.8	918.6	306.9	934.8	0.00	0.00	0.00



EOG Resources, Inc.

Planning Report

Database: EDM 5000.1 Single User Db
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Orrtanna 20 Fed
Well: #704H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #704H
TVD Reference: KB = 25' @ 3257.0usft
MD Reference: KB = 25' @ 3257.0usft
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)
13,300.0	90.20	359.59	12,306.5	1,018.6	306.2	1,034.6	0.00	0.00	0.00
13,400.0	90.20	359.59	12,306.1	1,118.6	305.5	1,134.3	0.00	0.00	0.00
13,500.0	90.20	359.59	12,305.8	1,218.6	304.8	1,234.1	0.00	0.00	0.00
13,600.0	90.20	359.59	12,305.4	1,318.6	304.1	1,333.9	0.00	0.00	0.00
13,700.0	90.20	359.59	12,305.1	1,418.6	303.4	1,433.7	0.00	0.00	0.00
13,800.0	90.20	359.59	12,304.7	1,518.6	302.7	1,533.5	0.00	0.00	0.00
13,900.0	90.20	359.59	12,304.4	1,618.6	301.9	1,633.3	0.00	0.00	0.00
14,000.0	90.20	359.59	12,304.0	1,718.6	301.2	1,733.1	0.00	0.00	0.00
14,100.0	90.20	359.59	12,303.7	1,818.5	300.5	1,832.9	0.00	0.00	0.00
14,200.0	90.20	359.59	12,303.3	1,918.5	299.8	1,932.7	0.00	0.00	0.00
14,300.0	90.20	359.59	12,303.0	2,018.5	299.1	2,032.4	0.00	0.00	0.00
14,400.0	90.20	359.59	12,302.6	2,118.5	298.4	2,132.2	0.00	0.00	0.00
14,500.0	90.20	359.59	12,302.3	2,218.5	297.6	2,232.0	0.00	0.00	0.00
14,600.0	90.20	359.59	12,301.9	2,318.5	296.9	2,331.8	0.00	0.00	0.00
14,700.0	90.20	359.59	12,301.6	2,418.5	296.2	2,431.6	0.00	0.00	0.00
14,800.0	90.20	359.59	12,301.2	2,518.5	295.5	2,531.4	0.00	0.00	0.00
14,900.0	90.20	359.59	12,300.9	2,618.5	294.8	2,631.2	0.00	0.00	0.00
15,000.0	90.20	359.59	12,300.5	2,718.5	294.1	2,731.0	0.00	0.00	0.00
15,100.0	90.20	359.59	12,300.2	2,818.5	293.4	2,830.8	0.00	0.00	0.00
15,200.0	90.20	359.59	12,299.9	2,918.5	292.6	2,930.5	0.00	0.00	0.00
15,300.0	90.20	359.59	12,299.5	3,018.5	291.9	3,030.3	0.00	0.00	0.00
15,400.0	90.20	359.59	12,299.2	3,118.5	291.2	3,130.1	0.00	0.00	0.00
15,500.0	90.20	359.59	12,298.8	3,218.5	290.5	3,229.9	0.00	0.00	0.00
15,600.0	90.20	359.59	12,298.5	3,318.5	289.8	3,329.7	0.00	0.00	0.00
15,700.0	90.20	359.59	12,298.1	3,418.5	289.1	3,429.5	0.00	0.00	0.00
15,800.0	90.20	359.59	12,297.8	3,518.5	288.3	3,529.3	0.00	0.00	0.00
15,900.0	90.20	359.59	12,297.4	3,618.5	287.6	3,629.1	0.00	0.00	0.00
16,000.0	90.20	359.59	12,297.1	3,718.5	286.9	3,728.8	0.00	0.00	0.00
16,100.0	90.20	359.59	12,296.7	3,818.5	286.2	3,828.6	0.00	0.00	0.00
16,200.0	90.20	359.59	12,296.4	3,918.5	285.5	3,928.4	0.00	0.00	0.00
16,300.0	90.20	359.59	12,296.0	4,018.5	284.8	4,028.2	0.00	0.00	0.00
16,400.0	90.20	359.59	12,295.7	4,118.5	284.0	4,128.0	0.00	0.00	0.00
16,500.0	90.20	359.59	12,295.3	4,218.5	283.3	4,227.8	0.00	0.00	0.00
16,600.0	90.20	359.59	12,295.0	4,318.5	282.6	4,327.6	0.00	0.00	0.00
16,700.0	90.20	359.59	12,294.6	4,418.5	281.9	4,427.4	0.00	0.00	0.00
16,800.0	90.20	359.59	12,294.3	4,518.5	281.2	4,527.2	0.00	0.00	0.00
16,900.0	90.20	359.59	12,293.9	4,618.5	280.5	4,626.9	0.00	0.00	0.00
17,000.0	90.20	359.59	12,293.6	4,718.5	279.8	4,726.7	0.00	0.00	0.00
17,105.5	90.20	359.59	12,293.2	4,824.0	279.0	4,832.1	0.00	0.00	0.00

PBHL (Orrtanna 20 Fed #704H)

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
PBHL (Orrtanna 20 Fed - plan hits target center - Point	0.00	0.00	12,293.2	4,824.0	279.0	377,424.00	728,829.00	32° 2' 7.810 N	103° 35' 41.593 W
FTP (Orrtanna 20 Fed # - plan misses target center by 114.9usft at 12425.2usft MD (12280.9 TVD, 147.0 N, 311.3 E) - Point	0.00	0.00	12,390.0	111.0	313.0	372,711.00	728,863.00	32° 1' 21.169 N	103° 35' 41.572 W



EOG Resources, Inc.
Planning Report

Database: EDM 5000.1 Single User Db
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Orrtanna 20 Fed
Well: #704H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #704H
TVD Reference: KB = 25' @ 3257.0usft
MD Reference: KB = 25' @ 3257.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

