





HOBBS OCD
JUL 27 2017
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EOG Resources - Midland

Lea County, NM (NAD 27 NME)

Orrtanna 20 Fed

#704H

OH

Design: OH

PVA

12 May, 2017



EOG Resources, Inc.

PVA

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 27 NME)
 Site: Orrtanna 20 Fed
 Well: #704H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #704H
 TVD Reference: KB = 25' @ 3257.0usft (H&P 473)
 MD Reference: KB = 25' @ 3257.0usft (H&P 473)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM 5000.1 Single User Db

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 0.0 usft Northing: 372,600.00 usft Latitude: 32° 1' 20.091 N
 +E/-W 0.0 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	4/10/2017	6.97	59.88	47,836

Design: OH

Audit Notes:

Version: 1.0 Phase: ACTUAL Tie On Depth: 0.0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	3.31



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Survey Program Date 5/12/2017

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
134.5	1,054.5	Wildfire Surveys (OH)	MWD	MWD - Standard
1,156.0	17,160.0	Intrepid MWD #1 (OH)	MWD	MWD - Standard

MD (usft)	Inc (°)	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.0	0.0
134.5	0.30	96.00	134.5	0.0	0.4	0.22	0.22	0.00	-0.4	0.0
220.5	0.50	8.00	220.5	0.3	0.6	0.67	0.23	-102.33	-0.4	-0.6
250.5	0.40	42.00	250.5	0.5	0.7	0.93	-0.33	113.33	-0.9	-0.2
273.5	0.70	46.00	273.5	0.7	0.9	1.31	1.30	17.39	-1.1	-0.1
307.5	0.40	8.00	307.5	0.9	1.0	1.34	-0.88	-111.76	-1.1	-0.9
336.5	0.60	2.00	336.5	1.2	1.1	0.71	0.69	-20.69	-1.2	-1.0
367.5	0.40	16.00	367.5	1.5	1.1	0.75	-0.65	45.16	-1.7	-0.6
398.5	0.70	23.00	398.5	1.7	1.2	0.99	0.97	22.58	-2.1	-0.4
430.5	0.50	1.00	430.5	2.1	1.3	0.94	-0.62	-68.75	-2.1	-1.2
460.5	0.60	28.00	460.5	2.3	1.3	0.92	0.33	90.00	-2.7	-0.1
490.5	0.40	26.00	490.5	2.6	1.5	0.67	-0.67	-6.67	-2.9	-0.2
522.5	0.60	28.00	522.5	2.8	1.6	0.63	0.62	6.25	-3.2	-0.1
553.5	0.50	25.00	553.5	3.1	1.7	0.34	-0.32	-9.68	-3.5	-0.3
585.5	0.50	9.00	585.5	3.3	1.8	0.43	0.00	-50.00	-3.6	-1.3
617.5	0.50	35.00	617.5	3.6	1.9	0.70	0.00	81.25	-4.0	0.5
647.5	0.40	38.00	647.5	3.8	2.1	0.34	-0.33	10.00	-4.2	0.7
679.5	0.30	39.00	679.5	3.9	2.2	0.31	-0.31	3.12	-4.4	0.8
710.5	0.40	36.00	710.5	4.1	2.3	0.33	0.32	-9.68	-4.6	0.5
741.5	0.50	46.00	741.5	4.3	2.4	0.41	0.32	32.26	-4.7	1.4
772.5	0.50	53.00	772.5	4.4	2.7	0.20	0.00	22.58	-4.8	1.9



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Survey											
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803.5	0.50	41.00	803.5	4.6	2.9	0.34	0.00	-38.71	-5.4	0.9	
835.5	0.40	36.00	835.5	4.8	3.0	0.34	-0.31	-15.62	-5.7	0.4	
866.5	0.30	47.00	866.5	5.0	3.1	0.39	-0.32	35.48	-5.7	1.5	
898.5	0.30	124.00	898.5	5.0	3.3	1.17	0.00	240.62	0.1	5.9	
929.5	0.30	143.00	929.5	4.9	3.4	0.32	0.00	61.29	1.8	5.6	
960.5	0.20	115.00	960.5	4.8	3.5	0.50	-0.32	-90.32	-1.1	5.8	
992.5	0.50	146.00	992.5	4.6	3.6	1.08	0.94	96.87	1.8	5.6	
1,023.5	0.30	112.00	1,023.5	4.5	3.8	0.97	-0.65	-109.68	-1.8	5.6	
1,054.5	0.50	127.00	1,054.5	4.4	3.9	0.72	0.65	48.39	-0.5	5.9	
1,156.0	0.30	87.50	1,156.0	4.1	4.6	0.32	-0.20	-38.92	-4.7	3.9	
1,342.0	0.30	170.60	1,342.0	3.7	5.1	0.21	0.00	44.68	2.8	5.7	
1,529.0	0.10	77.20	1,529.0	3.2	5.4	0.17	-0.11	-49.95	-5.9	1.9	
1,716.0	0.30	256.30	1,716.0	3.1	5.0	0.21	0.11	95.78	5.6	-1.9	
1,904.0	3.10	128.60	1,903.9	-0.2	8.5	1.75	1.49	-67.93	-6.8	5.2	
2,091.0	3.40	132.00	2,090.6	-7.0	16.6	0.19	0.16	1.82	-15.4	5.5	
2,278.0	3.30	97.60	2,277.3	-11.4	26.1	1.06	-0.05	-18.40	-18.6	-4.6	
2,465.0	4.00	118.30	2,463.9	-15.2	37.1	0.79	0.37	11.07	-17.9	4.2	
2,654.0	3.70	122.30	2,652.5	-21.6	48.1	0.21	-0.16	2.12	-17.1	4.9	
2,842.0	3.40	123.60	2,840.1	-28.0	57.9	0.17	-0.16	0.69	-15.6	4.2	
3,028.0	3.60	131.70	3,025.8	-34.9	66.8	0.29	0.11	4.35	-13.5	4.1	
3,215.0	2.90	124.40	3,212.5	-41.5	75.1	0.43	-0.37	-3.90	-11.5	0.2	
3,402.0	2.70	123.40	3,399.2	-46.6	82.7	0.11	-0.11	-0.53	-7.6	-1.2	
3,589.0	4.60	105.40	3,585.9	-51.0	93.6	1.17	1.02	-9.63	-5.8	-2.0	
3,778.0	5.50	105.90	3,774.1	-55.5	109.6	0.48	0.48	0.26	-9.6	1.0	
3,965.0	5.70	125.80	3,960.3	-63.4	125.8	1.04	0.11	10.64	-13.4	5.5	
4,153.0	4.50	118.80	4,147.5	-72.4	139.8	0.72	-0.64	-3.72	-17.5	2.5	
4,339.0	5.20	113.50	4,332.8	-79.3	153.9	0.45	0.38	-2.85	-20.5	1.3	



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4,525.0	6.50	119.70	4,517.9	-87.8	170.8	0.78	0.70	3.33	-26.1	4.1	
4,712.0	4.10	113.10	4,704.1	-95.7	186.2	1.32	-1.28	-3.53	-30.6	1.0	
4,899.0	2.30	101.40	4,890.8	-99.1	196.0	1.02	-0.96	-6.26	-28.0	-2.8	
5,084.0	3.90	117.30	5,075.5	-102.7	205.2	0.97	0.86	8.59	-24.6	6.2	
5,271.0	4.00	122.80	5,262.0	-109.1	216.4	0.21	0.05	2.94	-23.8	8.1	
5,458.0	3.30	126.00	5,448.7	-115.8	226.2	0.39	-0.37	1.71	-22.2	8.0	
5,646.0	3.10	119.00	5,636.4	-121.5	235.0	0.23	-0.11	-3.72	-20.4	4.4	
5,834.0	2.70	117.60	5,824.1	-126.0	243.4	0.22	-0.21	-0.74	-16.8	4.0	
6,021.0	2.10	115.30	6,011.0	-129.5	250.4	0.32	-0.32	-1.23	-11.8	3.8	
6,207.0	3.00	106.90	6,196.8	-132.4	258.1	0.52	0.48	-4.52	-7.7	4.1	
6,395.0	3.10	125.40	6,384.5	-136.7	267.0	0.52	0.05	9.84	-2.7	6.2	
6,583.0	3.00	132.20	6,572.3	-143.0	274.8	0.20	-0.05	3.62	0.8	3.9	
6,769.0	4.50	117.60	6,757.9	-149.6	284.8	0.95	0.81	-7.85	0.8	2.9	
6,957.0	4.20	113.10	6,945.3	-155.8	297.7	0.24	-0.16	-2.39	-0.6	3.6	
7,144.0	1.50	108.50	7,132.1	-159.2	306.3	1.45	-1.44	-2.46	2.2	5.1	
7,331.0	1.60	115.90	7,319.0	-161.1	311.0	0.12	0.05	3.96	5.2	5.4	
7,518.0	1.30	135.80	7,505.9	-163.8	314.8	0.31	-0.16	10.64	3.6	3.7	
7,704.0	1.60	176.50	7,691.9	-167.9	316.4	0.56	0.16	21.88	1.0	1.8	
7,892.0	0.30	297.90	7,879.9	-170.3	316.2	0.94	-0.69	64.57	1.9	0.5	
8,079.0	0.30	253.20	8,066.9	-170.2	315.3	0.12	0.00	-23.90	0.2	1.3	
8,265.0	0.70	231.60	8,252.8	-171.1	313.9	0.23	0.22	-11.61	-1.9	1.1	
8,451.0	1.20	199.80	8,438.8	-173.6	312.4	0.38	0.27	-17.10	-5.1	-0.6	
8,638.0	1.40	194.30	8,625.8	-177.7	311.1	0.13	0.11	-2.94	-9.3	-1.3	
8,824.0	1.20	186.00	8,811.7	-181.8	310.4	0.15	-0.11	-4.46	-13.2	-3.0	
9,014.0	0.70	75.00	9,001.7	-183.5	311.3	0.84	-0.26	-58.42	7.0	-13.1	
9,202.0	0.50	45.00	9,189.7	-182.6	313.0	0.19	-0.11	-15.96	10.8	-8.4	
9,390.0	0.60	359.40	9,377.7	-181.0	313.5	0.23	0.05	-24.26	12.0	1.3	



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9,576.0	0.50	275.00	9,563.7	-180.0	312.7	0.40	-0.05	-45.38	-1.0	11.1
9,762.0	0.40	187.50	9,749.7	-180.6	311.8	0.34	-0.05	-47.04	-11.8	-1.3
9,949.0	0.70	119.40	9,936.7	-181.8	312.7	0.36	0.16	-36.42	-4.6	-12.1
10,136.0	1.70	60.50	10,123.6	-181.0	316.2	0.78	0.53	-31.50	4.6	-11.1
10,322.0	1.90	24.60	10,309.6	-176.8	319.8	0.61	0.11	-19.30	5.0	-7.9
10,509.0	2.10	0.00	10,496.4	-170.6	321.1	0.47	0.11	-13.16	1.6	-6.4
10,696.0	2.20	7.80	10,683.3	-163.6	321.6	0.17	0.05	4.17	-6.3	-6.1
10,882.0	1.20	277.70	10,869.3	-159.8	320.2	1.35	-0.54	-48.44	4.2	-9.9
11,069.0	1.90	278.60	11,056.2	-159.0	315.2	0.37	0.37	0.48	-1.0	-9.9
11,256.0	2.90	276.80	11,243.0	-158.0	307.4	0.54	0.53	-0.96	-8.5	-10.0
11,442.0	1.70	270.40	11,428.9	-157.4	300.0	0.66	-0.65	-3.44	-14.8	-11.4
11,549.0	1.30	273.90	11,535.8	-157.4	297.2	0.38	-0.37	3.27	-18.3	-10.4
11,732.0	0.90	265.80	11,718.8	-157.3	293.7	0.23	-0.22	-4.43	-20.1	-13.2
11,779.0	0.90	261.20	11,765.8	-157.4	292.9	0.15	0.00	-9.79	-19.7	-14.8
11,826.0	2.00	27.10	11,812.8	-156.7	292.9	5.60	2.34	267.87	-0.6	24.8
11,873.0	9.10	1.80	11,859.5	-152.3	293.4	15.62	15.11	-53.83	-11.6	21.6
11,919.0	16.80	348.20	11,904.3	-142.1	292.2	17.89	16.74	-29.57	-18.4	19.2
11,960.0	23.40	339.50	11,942.8	-128.7	288.1	17.63	16.10	-21.22	-25.0	19.2
12,012.0	30.00	334.10	11,989.3	-107.3	278.8	13.51	12.69	-10.38	-33.6	24.1
12,059.0	39.60	338.70	12,027.8	-82.7	268.2	21.16	20.43	9.79	-39.2	35.8
12,106.0	43.60	342.10	12,063.0	-53.3	257.8	9.77	8.51	7.23	-46.1	46.5
12,153.0	45.50	349.60	12,096.5	-21.4	249.8	11.90	4.04	15.96	-47.4	58.3
12,199.0	47.50	1.60	12,128.2	11.8	247.3	19.40	4.35	26.09	-41.4	67.2
12,246.0	56.10	9.70	12,157.3	48.4	251.1	22.74	18.30	17.23	-39.9	66.4
12,293.0	49.30	11.40	12,185.7	85.2	257.9	14.75	-14.47	3.62	-38.4	60.3
12,340.0	49.80	11.80	12,216.2	120.2	265.1	1.25	1.06	0.85	-31.3	52.1
12,387.0	58.20	10.10	12,243.8	157.5	272.3	18.11	17.87	-3.62	-25.5	42.5



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12,434.0	66.30	7.70	12,265.7	198.6	278.7	17.81	17.23	-5.11	-21.4	34.6
12,481.0	72.20	3.90	12,282.4	242.3	283.1	14.65	12.55	-8.09	-17.9	29.1
12,528.0	75.10	3.00	12,295.6	287.3	285.8	6.44	6.17	-1.91	-12.9	25.9
12,575.0	78.30	2.90	12,306.4	333.0	288.1	6.81	6.81	-0.21	-5.9	23.1
12,622.0	82.50	2.30	12,314.2	379.2	290.2	9.02	8.94	-1.28	1.4	20.6
12,668.0	88.70	359.40	12,317.8	425.1	290.9	14.87	13.48	-6.30	5.0	19.6
12,731.0	97.00	356.50	12,314.6	487.9	288.7	13.95	13.17	-4.60	2.1	21.3
12,824.0	95.70	357.30	12,304.3	580.2	283.7	1.64	-1.40	0.86	-7.9	25.7
12,917.0	93.10	357.10	12,297.2	672.8	279.1	2.80	-2.80	-0.22	-14.9	29.6
13,011.0	91.50	358.50	12,293.4	766.6	275.5	2.26	-1.70	1.49	-18.4	32.5
13,105.0	86.60	358.40	12,295.0	860.6	273.0	5.21	-5.21	-0.11	-16.7	34.4
13,136.0	85.10	358.90	12,297.2	891.5	272.3	5.10	-4.84	1.61	-14.3	34.9
13,229.0	84.90	358.50	12,305.3	984.1	270.2	0.48	-0.22	-0.43	-6.0	36.3
13,322.0	84.60	358.40	12,313.8	1,076.7	267.7	0.34	-0.32	-0.11	2.7	38.2
13,416.0	89.80	0.10	12,318.4	1,170.5	266.4	5.82	5.53	1.81	7.6	38.7
13,510.0	90.50	0.80	12,318.2	1,264.5	267.2	1.05	0.74	0.74	7.6	37.3
13,603.0	89.00	359.40	12,318.6	1,357.5	267.3	2.21	-1.61	-1.51	8.3	36.5
13,697.0	90.60	358.90	12,318.9	1,451.5	265.9	1.78	1.70	-0.53	8.8	37.2
13,790.0	90.80	356.80	12,317.8	1,544.4	262.4	2.27	0.22	-2.26	7.9	40.0
13,884.0	89.50	353.70	12,317.5	1,638.1	254.7	3.58	-1.38	-3.30	7.8	47.1
13,976.0	89.70	357.50	12,318.2	1,729.8	247.6	4.14	0.22	4.13	8.5	53.5
14,070.0	91.00	0.50	12,317.6	1,823.8	246.0	3.48	1.38	3.19	8.1	54.5
14,163.0	88.50	0.80	12,318.0	1,916.7	247.0	2.71	-2.69	0.32	8.6	52.8
14,257.0	90.60	0.50	12,318.8	2,010.7	248.1	2.26	2.23	-0.32	9.5	51.0
14,350.0	91.90	2.40	12,316.7	2,103.7	250.4	2.48	1.40	2.04	7.5	48.0
14,443.0	87.20	2.30	12,317.5	2,196.6	254.2	5.05	-5.05	-0.11	8.5	43.5
14,536.0	85.50	1.40	12,323.4	2,289.3	257.2	2.07	-1.83	-0.97	14.5	39.9



EOG Resources, Inc.

PVA

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Orrtanna 20 Fed
Well: #704H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #704H
TVD Reference: KB = 25' @ 3257.0usft (H&P 473)
MD Reference: KB = 25' @ 3257.0usft (H&P 473)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Survey

MD (usft)	Inc (°)	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
14,629.0	88.10	2.00	12,328.6	2,382.1	260.0	2.87	2.80	0.65	19.8	36.4
14,722.0	91.90	3.20	12,328.6	2,475.0	264.2	4.28	4.09	1.29	19.9	31.6
14,815.0	90.00	6.90	12,327.0	2,567.6	272.4	4.47	-2.04	3.98	18.6	22.7
14,908.0	88.70	9.00	12,328.1	2,659.7	285.3	2.66	-1.40	2.26	19.7	9.1
15,002.0	92.80	5.40	12,326.9	2,752.9	297.0	5.80	4.36	-3.83	18.5	-3.2
15,096.0	92.70	3.30	12,322.3	2,846.5	304.2	2.23	-0.11	-2.23	14.2	-11.0
15,189.0	90.50	2.20	12,319.7	2,939.4	308.6	2.64	-2.37	-1.18	11.7	-16.1
15,283.0	88.80	0.80	12,320.3	3,033.4	311.1	2.34	-1.81	-1.49	12.5	-19.3
15,376.0	90.10	358.70	12,321.2	3,126.3	310.7	2.66	1.40	-2.26	13.8	-19.5
15,469.0	93.00	358.70	12,318.7	3,219.3	308.6	3.12	3.12	0.00	11.7	-18.1
15,563.0	88.50	357.70	12,317.5	3,313.2	305.6	4.90	-4.79	-1.06	10.9	-15.8
15,626.0	91.00	358.10	12,317.7	3,376.2	303.3	4.02	3.97	0.63	11.4	-13.9
15,657.0	92.40	359.00	12,316.8	3,407.1	302.5	5.37	4.52	2.90	10.6	-13.4
15,750.0	89.20	358.30	12,315.5	3,500.1	300.3	3.52	-3.44	-0.75	9.7	-11.9
15,844.0	93.10	359.70	12,313.6	3,594.0	298.7	4.41	4.15	1.49	8.3	-10.9
15,937.0	94.20	0.10	12,307.7	3,686.8	298.5	1.26	1.18	0.43	2.8	-11.4
16,039.0	90.30	358.10	12,303.7	3,788.7	296.9	4.30	-3.82	-1.96	-0.8	-10.5
16,132.0	91.20	359.20	12,302.5	3,881.7	294.7	1.53	0.97	1.18	-1.6	-9.0
16,225.0	89.30	0.20	12,302.1	3,974.7	294.2	2.31	-2.04	1.08	-1.6	-9.2
16,319.0	90.70	4.40	12,302.1	4,068.6	298.0	4.71	1.49	4.47	-1.2	-13.6
16,413.0	89.70	4.60	12,301.8	4,162.3	305.4	1.08	-1.06	0.21	-1.1	-21.7
16,507.0	89.70	5.30	12,302.3	4,255.9	313.5	0.74	0.00	0.74	-0.2	-30.4
16,600.0	88.80	4.70	12,303.5	4,348.6	321.6	1.16	-0.97	-0.65	1.3	-39.2
16,694.0	89.90	4.10	12,304.5	4,442.3	328.8	1.33	1.17	-0.64	2.9	-47.1
16,787.0	88.80	359.30	12,305.6	4,535.2	331.6	5.29	-1.18	-5.16	4.3	-50.5
16,880.0	91.80	1.00	12,305.1	4,628.2	331.8	3.71	3.23	1.83	4.3	-51.4
16,974.0	89.50	359.60	12,304.0	4,722.2	332.3	2.86	-2.45	-1.49	3.6	-52.6



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PVA

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Local Co-ordinate Reference: Well #704H
 TVD Reference: KB = 25' @ 3257.0usft (H&P 473)
 MD Reference: KB = 25' @ 3257.0usft (H&P 473)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM 5000.1 Single User Db

Survey

MD (usft)	Inc (°)	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
17,067.0	91.80	359.60	12,303.0	4,815.2	331.7	2.47	2.47	0.00	2.9	-52.6
Last MWD Survey										
17,160.0	91.80	359.60	12,300.1	4,908.1	331.0	0.00	0.00	0.00	5.1	-98.8
Projection To Bit										

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
17,067.0	12,303.0	4,815.2	331.7	Last MWD Survey
17,160.0	12,300.1	4,908.1	331.0	Projection To Bit

Checked By: _____ Approved By: _____ Date: _____