eog resources

EOG Resources - Midland

Lea County, NM (NAD 83 NME)
Red Raider 25 State Com
#701H
OH

Survey: MS Directional

Midland PVA

01 May, 2018

eog resources

Company:	EOG Resources - Midland	**Local Co-ordinate Reference:**	Well #701H
Project:	Lea County, NM (NAD 83 NME)	**TVD Reference:**	KB = 25 @ 3529.0usft (H&P 620)
Site:	Red Raider 25 State Com	**MD Reference:**	KB = 25 @ 3529.0usft (H&P 620)
Well:	#701H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**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 #701H

Well Position	**+N/-S**	0.0 usft	**Northing:**	430,866.00 usft	**Latitude:**	32° 10' 54.895 N
	+E/-W	0.0 usft	**Easting:**	792,872.00 usft	**Longitude:**	103° 31' 13.091 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	47,851.73084595

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	5.31

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Survey Program **Date** 5/1/2018

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
174.0	1,321.0	Olebook Dir Corrected for Grid (OH)	MWD	OWSG MWD - Standard
1,444.0	17,191.0	MS Directional (OH)	MWD	OWSG MWD - Standard

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
1,321.0	0.26	98.18	1,321.0	-5.0	1.9	0.00	0.00	0.00	0.0	0.0
1,444.0	0.60	263.90	1,444.0	-5.1	1.5	0.69	0.28	134.74	-0.9	-0.1
1,631.0	0.60	284.00	1,630.9	-5.0	-0.4	0.11	0.00	10.75	-3.6	0.7
1,819.0	0.70	245.90	1,818.9	-5.2	-2.4	0.23	0.05	-20.27	-5.9	-2.8
2,006.0	0.40	250.90	2,005.9	-5.9	-4.1	0.16	-0.16	2.67	-8.7	-2.5
2,194.0	0.70	275.80	2,193.9	-6.0	-5.8	0.20	0.16	13.24	-11.5	1.6
2,382.0	0.80	273.90	2,381.9	-5.8	-8.3	0.05	0.05	-1.01	-14.9	1.1
2,570.0	0.70	289.10	2,569.9	-5.3	-10.7	0.12	-0.05	8.09	-17.3	5.5
2,758.0	0.80	319.40	2,757.9	-4.0	-12.6	0.21	0.05	16.12	-15.1	14.6
2,946.0	1.10	62.20	2,945.9	-2.1	-11.9	0.80	0.16	54.68	16.8	13.3
3,133.0	1.40	64.10	3,132.8	-0.3	-8.2	0.16	0.16	1.02	13.8	13.3
3,322.0	1.50	55.60	3,321.7	2.1	-4.1	0.13	0.05	-4.50	7.6	15.4
3,509.0	2.00	67.00	3,508.7	4.8	0.9	0.32	0.27	6.10	5.6	14.5
3,697.0	2.10	60.30	3,696.5	7.8	6.9	0.14	0.05	-3.56	-2.2	15.2
3,886.0	2.10	57.90	3,885.4	11.3	12.8	0.05	0.00	-1.27	-9.1	15.5
4,074.0	2.00	59.10	4,073.3	14.8	18.6	0.06	-0.05	0.64	-14.8	16.3
4,262.0	1.80	61.20	4,261.2	18.0	24.0	0.11	-0.11	1.12	-19.8	17.5
4,450.0	2.70	65.80	4,449.0	21.2	30.6	0.49	0.48	2.45	-24.8	19.9
4,637.0	6.10	91.80	4,635.5	22.7	44.6	2.06	1.82	13.90	-18.7	33.1
4,825.0	9.30	106.00	4,821.8	18.2	69.2	1.97	1.70	7.55	-13.5	39.8
5,013.0	9.70	110.00	5,007.2	8.6	98.6	0.41	0.21	2.13	-10.2	40.5

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Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
5,098.0	8.90	107.00	5,091.1	4.2	111.7	1.10	-0.94	-3.53	-11.2	39.8
5,189.0	8.50	108.10	5,181.0	0.1	124.8	0.48	-0.44	1.21	-8.4	40.1
5,377.0	9.60	110.50	5,366.7	-9.7	152.7	0.62	0.59	1.28	-3.6	39.5
5,565.0	10.50	112.50	5,551.8	-21.8	183.2	0.51	0.48	1.06	-2.6	37.5
5,753.0	10.20	113.30	5,736.7	-34.9	214.3	0.18	-0.16	0.43	-3.3	34.7
5,941.0	9.70	109.80	5,921.9	-46.9	244.5	0.42	-0.27	-1.86	-5.2	32.3
6,129.0	9.70	108.70	6,107.2	-57.3	274.4	0.10	0.00	-0.59	-4.9	31.5
6,316.0	8.70	108.40	6,291.8	-66.8	302.7	0.54	-0.53	-0.16	-2.4	31.1
6,505.0	9.60	113.20	6,478.4	-77.6	330.8	0.62	0.48	2.54	2.8	29.3
6,693.0	9.50	113.50	6,663.8	-89.9	359.4	0.06	-0.05	0.16	4.3	26.2
6,882.0	9.20	111.10	6,850.3	-101.6	387.8	0.26	-0.16	-1.27	5.3	23.9
7,068.0	8.80	109.10	7,034.0	-111.6	415.1	0.27	-0.22	-1.08	7.7	22.8
7,255.0	8.00	110.50	7,219.0	-120.8	440.8	0.44	-0.43	0.75	13.4	21.5
7,443.0	6.50	102.50	7,405.5	-127.7	463.5	0.96	-0.80	-4.26	13.2	23.9
7,630.0	3.80	141.30	7,591.8	-134.8	477.7	2.28	-1.44	20.75	22.5	9.2
7,818.0	2.20	136.50	7,779.5	-142.3	484.1	0.86	-0.85	-2.55	14.2	9.3
8,005.0	1.10	241.30	7,966.5	-145.8	485.0	1.44	-0.59	56.04	4.5	-12.6
8,193.0	0.80	227.00	8,154.4	-147.6	482.4	0.20	-0.16	-7.61	4.4	-11.6
8,380.0	0.80	223.20	8,341.4	-149.4	480.6	0.03	0.00	-2.03	2.5	-11.3
8,568.0	0.90	210.30	8,529.4	-151.6	478.9	0.11	0.05	-6.86	2.3	-10.8
8,755.0	0.80	210.20	8,716.4	-154.0	477.5	0.05	-0.05	-0.05	-0.5	-10.8
8,943.0	1.00	225.80	8,904.4	-156.3	475.7	0.17	0.11	8.30	-6.3	-9.9
9,130.0	0.90	200.10	9,091.3	-158.8	474.0	0.23	-0.05	-13.74	-4.3	-12.3
9,317.0	0.30	253.10	9,278.3	-160.3	473.1	0.41	-0.32	28.34	-13.8	-2.8
9,504.0	0.10	90.40	9,465.3	-160.5	472.8	0.21	-0.11	-87.01	14.3	-1.6
9,691.0	1.00	61.10	9,652.3	-159.7	474.3	0.49	0.48	-15.67	11.5	5.6
9,879.0	1.50	43.80	9,840.3	-157.1	477.5	0.33	0.27	-9.20	5.3	8.2

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Survey

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10,067.0	1.10	3.30	10,028.2	-153.5	479.3	0.52	-0.21	-21.54	-5.0	8.1
10,254.0	0.70	0.70	10,215.2	-150.6	479.4	0.21	-0.21	-1.39	-8.3	7.8
10,441.0	0.70	334.00	10,402.2	-148.4	478.9	0.17	0.00	-14.28	-13.1	2.7
10,629.0	1.20	309.10	10,590.2	-146.2	476.9	0.34	0.27	-13.24	-16.0	-3.5
10,817.0	1.70	327.70	10,778.1	-142.6	473.9	0.36	0.27	9.89	-21.0	2.4
11,005.0	1.10	340.00	10,966.0	-138.5	471.8	0.36	-0.32	6.54	-24.5	7.4
11,193.0	0.30	134.40	11,154.0	-137.2	471.5	0.73	-0.43	82.13	26.4	4.7
11,381.0	1.30	84.40	11,342.0	-137.3	474.0	0.60	0.53	-26.60	10.9	22.9
11,568.0	2.20	57.60	11,528.9	-135.2	479.1	0.64	0.48	-14.33	-6.0	24.4
11,744.0	1.80	65.60	11,704.8	-132.2	484.5	0.28	-0.23	4.55	-8.7	25.5
11,869.0	1.30	96.80	11,829.8	-131.6	487.7	0.77	-0.40	24.96	2.7	27.3
11,963.0	0.80	125.80	11,923.7	-132.1	489.3	0.76	-0.53	30.85	14.0	23.1
12,057.0	8.20	333.50	12,017.5	-126.5	486.8	9.49	7.87	-162.02	-29.2	-14.4
12,150.0	24.30	339.20	12,106.4	-102.5	477.0	17.38	17.31	6.13	-44.6	-5.6
12,197.0	24.40	340.30	12,149.3	-84.3	470.3	0.99	0.21	2.34	-48.7	1.6
12,244.0	28.60	343.00	12,191.3	-64.4	463.7	9.29	8.94	5.74	-47.1	11.5
12,291.0	34.70	344.00	12,231.3	-40.8	456.7	13.03	12.98	2.13	-42.7	20.9
12,338.0	37.50	345.00	12,269.3	-14.1	449.3	6.09	5.96	2.13	-34.9	30.8
12,385.0	45.10	348.60	12,304.6	16.1	442.3	16.94	16.17	7.66	-23.6	40.8
12,432.0	54.00	349.30	12,335.0	51.2	435.5	18.97	18.94	1.49	-13.5	48.8
12,479.0	62.70	354.30	12,359.7	90.7	429.9	20.60	18.51	10.64	-2.1	55.2
12,500.7	65.78	356.53	12,369.1	110.2	428.3	16.93	14.17	10.28	2.7	56.8
HL Crossing 12500.7' MD; 12369.1' TVD; 110.2'; 428.3'; 65.78										
12,526.0	69.40	359.00	12,378.8	133.6	427.4	16.93	14.33	9.76	8.2	57.5
12,575.0	78.60	359.70	12,392.3	180.6	426.9	18.83	18.78	1.43	16.4	57.6
12,622.0	83.10	1.40	12,399.7	227.0	427.4	10.22	9.57	3.62	23.9	56.8
12,716.0	92.00	2.70	12,403.7	320.8	430.7	9.57	9.47	1.38	28.5	52.7

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12,810.0	92.50	2.20	12,400.1	414.6	434.7	0.75	0.53	-0.53	25.5	48.0
12,904.0	93.70	1.90	12,395.0	508.4	438.1	1.32	1.28	-0.32	21.0	43.9
12,997.0	94.20	1.60	12,388.6	601.2	440.9	0.63	0.54	-0.32	15.3	40.4
13,091.0	91.30	2.20	12,384.1	695.0	444.0	3.15	-3.09	0.64	11.6	36.5
13,185.0	92.30	2.50	12,381.1	788.9	447.9	1.11	1.06	0.32	9.3	32.0
13,279.0	89.90	1.90	12,379.3	882.8	451.5	2.63	-2.55	-0.64	8.2	27.6
13,373.0	89.10	1.70	12,380.1	976.7	454.4	0.88	-0.85	-0.21	9.8	23.9
13,466.0	89.60	2.20	12,381.2	1,069.6	457.6	0.76	0.54	0.54	11.5	20.0
13,560.0	88.40	1.80	12,382.8	1,163.6	460.9	1.35	-1.28	-0.43	13.8	16.0
13,654.0	92.10	0.20	12,382.4	1,257.5	462.5	4.29	3.94	-1.70	14.8	13.7
13,748.0	93.20	1.60	12,378.1	1,351.4	464.0	1.89	1.17	1.49	11.9	11.5
13,842.0	91.00	1.10	12,374.6	1,445.3	466.2	2.40	-2.34	-0.53	9.9	8.6
13,935.0	88.90	356.50	12,374.7	1,538.3	464.3	5.44	-2.26	-4.95	11.4	9.8
13,955.0	87.80	355.50	12,375.3	1,558.2	462.9	7.43	-5.50	-5.00	12.3	11.1
14,029.0	88.80	356.00	12,377.5	1,632.0	457.4	1.51	1.35	0.68	15.6	16.0
14,066.0	88.90	355.90	12,378.2	1,668.9	454.8	0.38	0.27	-0.27	16.9	18.3
14,123.0	93.60	356.50	12,377.0	1,725.7	451.0	8.31	8.25	1.05	16.6	21.6
14,217.0	97.80	358.30	12,367.6	1,819.1	446.8	4.86	4.47	1.91	8.7	25.2
14,310.0	95.00	359.10	12,357.3	1,911.5	444.7	3.13	-3.01	0.86	-0.3	26.6
14,404.0	91.00	0.70	12,352.3	2,005.4	444.5	4.58	-4.26	1.70	-3.8	26.0
14,497.0	90.20	0.30	12,351.4	2,098.4	445.3	0.96	-0.86	-0.43	-3.3	24.5
14,591.0	92.30	2.70	12,349.3	2,192.3	447.8	3.39	2.23	2.55	-4.0	21.3
14,685.0	92.00	1.40	12,345.8	2,286.2	451.1	1.42	-0.32	-1.38	-6.0	17.2
14,779.0	90.40	0.70	12,343.8	2,380.1	452.9	1.86	-1.70	-0.74	-6.5	14.8
14,873.0	88.30	0.60	12,344.9	2,474.1	453.9	2.24	-2.23	-0.11	-4.0	13.0
14,967.0	93.40	2.00	12,343.5	2,568.0	456.1	5.63	5.43	1.49	-3.9	10.2
15,060.0	93.60	0.00	12,337.8	2,660.9	457.7	2.16	0.22	-2.15	-8.0	7.9

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15,154.0	88.70	359.70	12,335.9	2,754.8	457.4	5.22	-5.21	-0.32	-8.3	7.4
15,248.0	86.60	359.90	12,339.8	2,848.7	457.1	2.24	-2.23	0.21	-2.9	7.0
15,342.0	87.40	0.10	12,344.7	2,942.6	457.1	0.88	0.85	0.21	3.6	6.3
15,436.0	89.50	1.20	12,347.2	3,036.5	458.2	2.52	2.23	1.17	7.7	4.5
15,530.0	92.10	1.00	12,345.9	3,130.5	460.0	2.77	2.77	-0.21	7.9	2.0
15,624.0	92.50	359.20	12,342.2	3,224.4	460.1	1.96	0.43	-1.91	5.7	1.1
15,718.0	88.80	357.30	12,341.1	3,318.4	457.3	4.42	-3.94	-2.02	6.2	3.3
15,812.0	91.40	359.20	12,340.9	3,412.3	454.4	3.43	2.77	2.02	7.6	5.4
15,906.0	92.90	357.70	12,337.4	3,506.2	451.9	2.26	1.60	-1.60	5.6	7.2
15,999.0	92.90	357.50	12,332.7	3,599.0	448.0	0.21	0.00	-0.22	2.5	10.4
16,093.0	90.80	357.70	12,329.7	3,692.9	444.0	2.24	-2.23	0.21	1.0	13.6
16,186.0	91.80	358.40	12,327.6	3,785.8	440.9	1.31	1.08	0.75	0.5	16.1
16,280.0	91.20	0.60	12,325.1	3,879.7	440.0	2.43	-0.64	2.34	-0.3	16.2
16,374.0	92.90	1.10	12,321.7	3,973.7	441.4	1.89	1.81	0.53	-2.1	14.1
16,468.0	92.20	0.00	12,317.5	4,067.6	442.3	1.39	-0.74	-1.17	-4.6	12.5
16,562.0	87.10	0.50	12,318.1	4,161.5	442.7	5.45	-5.43	0.53	-2.4	11.3
16,656.0	87.80	0.00	12,322.3	4,255.4	443.2	0.91	0.74	-0.53	3.4	10.2
16,750.0	86.40	359.40	12,327.1	4,349.3	442.7	1.62	-1.49	-0.64	9.7	10.0
16,844.0	89.00	0.60	12,330.8	4,443.2	442.7	3.05	2.77	1.28	15.2	9.3
16,938.0	92.00	1.40	12,330.0	4,537.2	444.3	3.30	3.19	0.85	16.0	6.9
17,031.0	93.60	2.40	12,325.5	4,630.0	447.4	2.03	1.72	1.08	13.0	3.1
17,125.0	93.20	2.70	12,319.9	4,723.8	451.6	0.53	-0.43	0.32	9.1	-1.7
Last MWD Survey (MD = 17125.0)										
17,129.3	93.20	2.70	12,319.7	4,728.1	451.8	0.00	0.00	0.00	8.9	-2.0
HL Crossing 17129.3' MD; 12319.7' TVD; 4728.1'; 451.8'; 93.20										
17,191.0	93.20	2.70	12,316.2	4,789.6	454.7	0.00	0.00	0.00	6.5	-5.4
Projection to Bit (MD = 17191.0)										

Company:	EOG Resources - Midland	**Local Co-ordinate Reference:**	Well #701H
Project:	Lea County, NM (NAD 83 NME)	**TVD Reference:**	KB = 25 @ 3529.0usft (H&P 620)
Site:	Red Raider 25 State Com	**MD Reference:**	KB = 25 @ 3529.0usft (H&P 620)
Well:	#701H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	EDM 5000.14

Survey Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
12,500.7	12,369.1	110.2	428.3	HL Crossing 12500.7' MD; 12369.1' TVD; 110.2'; 428.3'; 65.78
17,125.0	12,319.9	4,723.8	451.6	Last MWD Survey (MD = 17125.0)
17,129.3	12,319.7	4,728.1	451.8	HL Crossing 17129.3' MD; 12319.7' TVD; 4728.1'; 451.8'; 93.20
17,191.0	12,316.2	4,789.6	454.7	Projection to Bit (MD = 17191.0)

Checked By: _____ Approved By: _____ Date: _____

eog resources

Lea County, NM (NAD 83 NME)

Red Raider 25 State Com #701H

H&P 620

Plan #2

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

Azimuths to Grid North
True North: 6.85°
Magnetic North: 6.45°

Magnetic Field
Strength: 47891.7nT
Dip Angle: 60.02°
Date: 2/7/2018
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 6.42°
To convert a Magnetic Direction to a True Direction, Add 6.85° East
To convert a True Direction to a Grid Direction, Subtract 0.43°

WELL DETAILS: #701H

3504.0
KB = 25 @ 3529.0usft (H&P 620)

Northing	Easting	Latitude	Longitude
430866.00	792872.00	32° 10' 54.695 N	103° 31' 13.091 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	1321.0	0.26	98.18	1321.0	-5.0	1.9	0.00	0.00	-4.8	
2	4416.1	0.26	98.18	4416.0	-7.0	15.8	0.00	0.00	-5.5	
3	4903.1	10.00	107.90	4900.5	-20.2	57.2	2.00	9.97	-14.8	
4	7255.0	10.00	107.90	7216.7	-145.6	445.7	0.00	0.00	-103.7	
5	7754.8	0.00	0.00	7714.0	-159.0	487.1	2.00	180.00	-113.2	
6	12058.8	0.00	0.00	12018.0	-159.0	487.1	0.00	0.00	-113.2	
7	12624.0	90.42	359.56	12376.1	201.7	484.3	16.00	359.56	245.7	
8	13583.1	90.42	359.56	12369.0	1160.8	477.0	0.00	0.00	1200.0	TGT #1(RR 25 St Com #701H)
9	13606.0	90.88	359.56	12368.7	1183.7	476.8	2.00	0.42	1222.7	
10	14889.9	90.88	359.56	12349.0	2467.4	467.0	0.00	0.00	2500.0	TGT #2(RR 25 St Com #701H)
11	14893.4	90.95	359.56	12348.9	2470.9	467.0	2.00	-0.02	2503.5	
12	16096.1	90.95	359.56	12329.0	3673.4	457.8	0.00	0.00	3700.0	TGT #3(RR 25 St Com #701H)
13	16098.2	90.99	359.56	12329.0	3675.5	457.8	2.00	0.00	3702.1	
14	17251.9	90.99	359.56	12309.0	4829.0	449.0	0.00	0.00	4849.8	PBHL(RR 25 St Com #701H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
PBHL(RR 25 St Com #701H)	12309.0	4829.0	449.0	435695.00	793321.00
TGT #3(RR 25 St Com #701H)	12329.0	3673.4	457.8	434539.40	793329.81
TGT #2(RR 25 St Com #701H)	12349.0	2467.4	467.0	433333.40	793339.00
TGT #1(RR 25 St Com #701H)	12369.0	1160.8	477.0	432026.80	793348.96
FTP(RR 25 St Com #701H)	12387.0	111.0	483.0	430977.00	793357.00