



HOBBS OCD

OCT 21 2016

RECEIVED

EOG Resources

Lea County, NM (NAD 27 NME)
Rattlesnake 28 Fed Com
#704H

OH

Survey: DrilTech MWD

Standard Survey Report

12 July, 2016



Survey Report

Company:	EOG Resources	Local Co-ordinate Reference:	Well #704H
Project:	Lea County, NM (NAD 27 NME)	TVD Reference:	KB = 25 @ 3270.01ft
Site:	Rattlesnake 28 Fed Com	MD Reference:	KB = 25 @ 3270.01ft
Well:	#704H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	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	Rattlesnake 28 Fed Com		
Site Position:		Northing:	371,678.99 usft
From:	Map	Easting:	735,024.00 usft
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in
		Latitude:	32° 1' 10.534 N
		Longitude:	103° 34' 30.097 W
		Grid Convergence:	0.40 °

Well	#704H		
Well Position	+N/-S	0.00 ft	Northing: 371,679.00 usft
	+E/-W	0.00 ft	Easting: 735,024.00 usft
Position Uncertainty	0.00 ft	Wellhead Elevation:	0.00 ft
		Latitude:	32° 1' 10.534 N
		Longitude:	103° 34' 30.097 W
		Ground Level:	3,245.01 ft

Wellbore	OH		
-----------------	----	--	--

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	6/16/2016	7.05	59.89	47,920

Design	OH		
---------------	----	--	--

Audit Notes:				
Version:	1.0	Phase:	ACTUAL	Tie On Depth: 0.00

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	182.16

Survey Program		Date 7/12/2016		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
200.00	19,769.00	DrilTech MWD (OH)	MWD	MWD - Standard

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.60	170.95	200.00	-1.03	0.16	1.03	0.30	0.30	0.00
200'MD: Begin DrilTech MWD									
387.00	0.80	197.14	386.98	-3.25	-0.07	3.25	0.20	0.11	14.01
500.00	1.14	172.97	499.97	-5.12	-0.16	5.12	0.46	0.30	-21.39
593.00	1.93	182.29	592.93	-7.60	-0.11	7.60	0.89	0.85	10.02
686.00	2.55	180.35	685.86	-11.23	-0.19	11.23	0.67	0.67	-2.09
779.00	2.99	182.99	778.75	-15.73	-0.32	15.73	0.49	0.47	2.84
900.00	3.34	182.64	899.57	-22.40	-0.65	22.41	0.29	0.29	-0.29
1,063.00	3.34	202.68	1,062.30	-31.52	-2.70	31.60	0.71	0.00	12.29
1,250.00	3.52	287.05	1,249.06	-34.87	-10.29	35.23	2.46	0.10	45.12



Survey Report

Company: EOG Resources
Project: Lea County, NM (NAD 27 NME)
Site: Rattlesnake 28 Fed Com
Well: #704H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #704H
TVD Reference: KB = 25 @ 3270.01ft
MD Reference: KB = 25 @ 3270.01ft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
1,438.00	4.22	353.85	1,436.72	-26.29	-16.56	26.90	2.29	0.37	35.53
1,626.00	6.16	340.49	1,623.94	-9.91	-20.67	10.68	1.21	1.03	-7.11
1,813.00	6.33	339.43	1,809.84	9.20	-27.64	-8.15	0.11	0.09	-0.57
2,000.00	7.39	331.70	1,995.50	29.44	-36.96	-28.03	0.75	0.57	-4.13
2,188.00	8.09	337.15	2,181.79	52.28	-47.83	-50.44	0.54	0.37	2.90
2,377.00	7.92	336.27	2,368.94	76.45	-58.24	-74.21	0.11	-0.09	-0.47
2,564.00	7.74	335.39	2,554.20	99.70	-68.66	-97.04	0.12	-0.10	-0.47
2,752.00	7.39	335.92	2,740.56	122.25	-78.87	-119.19	0.19	-0.19	0.28
2,940.00	7.04	336.97	2,927.08	143.89	-88.31	-140.46	0.20	-0.19	0.56
3,128.00	7.04	338.03	3,113.66	165.17	-97.13	-161.40	0.07	0.00	0.56
3,316.00	7.57	340.31	3,300.13	187.52	-105.61	-183.40	0.32	0.28	1.21
3,504.00	7.21	341.19	3,486.57	210.34	-113.59	-205.91	0.20	-0.19	0.47
3,692.00	7.39	348.40	3,673.05	233.36	-119.82	-228.67	0.50	0.10	3.84
3,880.00	9.68	352.44	3,858.96	260.87	-124.33	-256.00	1.26	1.22	2.15
4,069.00	9.33	350.48	4,045.36	291.73	-128.96	-286.66	0.25	-0.19	-1.04
4,256.00	8.27	350.48	4,230.16	319.95	-133.69	-314.68	0.57	-0.57	0.00
4,444.00	8.09	351.18	4,416.25	346.35	-137.95	-340.91	0.11	-0.10	0.37
4,630.00	7.39	341.34	4,600.56	370.62	-143.79	-364.94	0.80	-0.38	-5.29
4,816.00	8.09	326.92	4,784.88	392.92	-154.76	-386.81	1.11	0.38	-7.75
5,003.00	7.57	322.00	4,970.14	413.65	-169.52	-406.97	0.45	-0.28	-2.63
5,190.00	8.80	329.38	5,155.24	435.67	-184.39	-428.41	0.86	0.66	3.95
5,379.00	8.80	328.15	5,342.01	460.39	-199.39	-452.55	0.10	0.00	-0.65
5,566.00	8.27	326.40	5,526.94	483.75	-214.38	-475.32	0.32	-0.28	-0.94
5,754.00	8.09	324.99	5,712.98	506.08	-229.62	-497.07	0.11	0.00	-0.75
5,941.00	8.80	332.37	5,897.92	529.77	-243.97	-520.20	0.65	0.28	3.95
6,129.00	7.57	330.79	6,084.00	553.32	-256.68	-543.25	0.67	-0.65	-0.84
6,316.00	7.21	339.23	6,269.45	575.05	-266.85	-564.58	0.61	-0.19	4.51
6,502.00	7.21	342.04	6,453.98	597.06	-274.59	-586.29	0.19	0.00	1.51
6,689.00	6.69	339.76	6,639.61	618.45	-281.98	-607.38	0.31	-0.28	-1.22
6,877.00	6.16	335.89	6,826.43	637.93	-289.89	-626.55	0.36	-0.28	-2.06
7,064.00	5.45	338.00	7,012.47	655.32	-297.31	-643.65	0.40	-0.38	1.13
7,252.00	4.57	336.06	7,199.75	670.44	-303.70	-658.52	0.48	-0.47	-1.03
7,439.00	3.87	332.90	7,386.24	682.87	-309.59	-670.72	0.39	-0.37	-1.69
7,630.00	1.58	331.14	7,577.01	690.91	-313.80	-678.60	1.20	-1.20	-0.92
7,816.00	1.06	336.77	7,762.96	694.74	-315.72	-682.35	0.29	-0.28	3.03
8,002.00	0.88	337.82	7,948.93	697.64	-316.94	-685.20	0.10	-0.10	0.56
8,189.00	0.70	357.86	8,135.92	700.12	-317.52	-687.65	0.17	-0.10	10.72
8,376.00	0.18	255.03	8,322.91	701.18	-317.85	-688.70	0.41	-0.28	-54.99
8,563.00	0.70	246.06	8,509.91	700.64	-319.18	-688.11	0.28	0.28	-4.80
8,750.00	1.06	241.32	8,696.88	699.35	-321.74	-686.73	0.20	0.19	-2.53
8,936.00	2.29	218.64	8,882.80	695.62	-325.57	-682.86	0.74	0.66	-12.19
9,124.00	1.76	86.63	9,070.75	692.86	-325.03	-680.11	1.97	-0.28	-70.22
9,311.00	0.53	84.17	9,257.71	693.11	-321.30	-680.51	0.66	-0.66	-1.32



Survey Report

Company:	EOG Resources	Local Co-ordinate Reference:	Well #704H
Project:	Lea County, NM (NAD 27 NME)	TVD Reference:	KB = 25 @ 3270.01ft
Site:	Rattlesnake 28 Fed Com	MD Reference:	KB = 25 @ 3270.01ft
Well:	#704H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
9,499.00	1.06	261.53	9,445.70	692.94	-322.16	-680.31	0.85	0.28	94.34
9,686.00	1.58	251.16	9,632.65	691.86	-326.31	-679.07	0.30	0.28	-5.55
9,874.00	1.76	266.45	9,820.57	690.84	-331.64	-677.85	0.25	0.10	8.13
10,062.00	2.11	257.67	10,008.46	689.92	-337.91	-676.70	0.24	0.19	-4.67
10,250.00	2.64	266.28	10,196.30	688.90	-345.61	-675.39	0.34	0.28	4.58
10,437.00	2.82	265.05	10,383.09	688.23	-354.49	-674.38	0.10	0.10	-0.66
10,624.00	1.41	241.67	10,569.96	686.74	-361.10	-672.64	0.87	-0.75	-12.50
10,811.00	1.41	165.91	10,756.92	683.41	-362.56	-669.26	0.93	0.00	-40.51
11,002.00	1.58	197.72	10,947.86	678.63	-362.79	-664.47	0.44	0.09	16.65
11,190.00	2.99	211.08	11,135.70	671.96	-366.11	-657.68	0.80	0.75	7.11
11,378.00	1.58	225.85	11,323.55	665.95	-370.50	-651.52	0.81	-0.75	7.86
11,565.00	0.70	322.35	11,510.52	665.06	-373.05	-650.53	0.96	-0.47	51.60
11,753.00	0.70	271.90	11,698.51	666.01	-374.90	-651.41	0.32	0.00	-26.84
11,941.00	1.06	216.88	11,886.49	664.66	-377.09	-649.97	0.46	0.19	-29.27
12,018.00	2.82	179.27	11,963.45	662.19	-377.49	-647.49	2.71	2.29	-48.84
12,066.00	9.33	174.17	12,011.15	657.14	-377.08	-642.46	13.60	13.56	-10.63
12,113.00	16.36	173.11	12,056.95	646.76	-375.90	-632.13	14.97	14.96	-2.26
12,160.00	21.11	179.97	12,101.45	631.72	-375.10	-617.13	11.12	10.11	14.60
12,207.00	27.27	180.50	12,144.30	612.47	-375.19	-597.89	13.11	13.11	1.13
12,254.00	33.96	176.45	12,184.73	588.57	-374.47	-574.03	14.89	14.23	-8.62
12,301.00	39.94	174.87	12,222.28	560.41	-372.31	-545.98	12.88	12.72	-3.36
12,348.00	47.51	172.76	12,256.22	528.15	-368.77	-513.87	16.40	16.11	-4.49
12,395.00	56.66	172.76	12,285.07	491.40	-364.10	-477.33	19.47	19.47	0.00
12,442.00	63.34	177.16	12,308.56	450.89	-360.58	-436.98	16.36	14.21	9.36
12,489.00	65.28	178.74	12,328.94	408.57	-359.07	-394.74	5.12	4.13	3.36
12,536.00	70.73	174.52	12,346.54	365.09	-356.48	-351.40	14.27	11.60	-8.98
12,583.00	76.72	173.47	12,359.71	320.25	-351.76	-306.76	12.92	12.74	-2.23
12,629.00	85.16	172.24	12,366.95	275.21	-346.11	-261.97	18.54	18.35	-2.67
12,723.00	89.91	169.07	12,370.99	182.59	-330.86	-169.99	6.07	5.05	-3.37
12,817.00	90.79	168.02	12,370.41	90.46	-312.19	-78.63	1.46	0.94	-1.12
12,911.00	90.62	171.88	12,369.26	-2.07	-295.79	13.22	4.11	-0.18	4.11
13,004.00	91.50	177.33	12,367.54	-94.61	-287.05	105.36	5.94	0.95	5.86
13,098.00	92.02	178.04	12,364.65	-188.48	-283.26	199.03	0.94	0.55	0.76
13,191.00	91.85	178.74	12,361.51	-281.39	-280.64	291.77	0.77	-0.18	0.75
13,285.00	91.32	179.27	12,358.91	-375.34	-279.01	385.59	0.80	-0.56	0.56
13,379.00	87.98	180.15	12,359.48	-469.33	-278.54	479.49	3.67	-3.55	0.94
13,473.00	90.26	181.38	12,360.93	-563.30	-279.79	573.44	2.76	2.43	1.31
13,567.00	90.26	182.43	12,360.50	-657.24	-282.92	667.44	1.12	0.00	1.12
13,661.00	89.38	182.26	12,360.79	-751.16	-286.76	761.44	0.95	-0.94	-0.18
13,754.00	89.38	183.84	12,361.80	-844.02	-291.71	854.42	1.70	0.00	1.70
13,847.00	90.97	183.66	12,361.52	-936.82	-297.79	947.38	1.72	1.71	-0.19
13,941.00	89.74	184.36	12,360.93	-1,030.59	-304.37	1,041.33	1.51	-1.31	0.74
14,035.00	88.15	184.01	12,362.66	-1,124.32	-311.23	1,135.25	1.73	-1.69	-0.37



Survey Report

Company: EOG Resources
 Project: Lea County, NM (NAD 27 NME)
 Site: Rattlesnake 28 Fed Com
 Well: #704H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #704H
 TVD Reference: KB = 25 @ 3270.01ft
 MD Reference: KB = 25 @ 3270.01ft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM 5000.1 Single User Db

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
14,129.00	89.91	177.51	12,364.26	-1,218.24	-312.47	1,229.15	7.16	1.87	-6.91
14,224.00	90.09	177.86	12,364.26	-1,313.16	-308.63	1,323.86	0.41	0.19	0.37
14,317.00	90.44	176.28	12,363.83	-1,406.04	-303.88	1,416.49	1.74	0.38	-1.70
14,410.00	90.09	179.09	12,363.40	-1,498.95	-300.12	1,509.20	3.04	-0.38	3.02
14,504.00	90.79	179.62	12,362.68	-1,592.94	-299.06	1,603.08	0.93	0.74	0.56
14,599.00	89.74	178.74	12,362.24	-1,687.93	-297.70	1,697.95	1.44	-1.11	-0.93
14,693.00	88.86	180.85	12,363.38	-1,781.91	-297.37	1,791.86	2.43	-0.94	2.24
14,783.00	88.68	180.85	12,365.32	-1,871.88	-298.70	1,881.81	0.20	-0.20	0.00
14,881.00	88.50	180.85	12,367.73	-1,969.84	-300.16	1,979.76	0.18	-0.18	0.00
14,974.00	89.38	181.02	12,369.45	-2,062.81	-301.67	2,072.72	0.96	0.95	0.18
15,067.00	89.91	181.90	12,370.02	-2,155.78	-304.04	2,165.71	1.10	0.57	0.95
15,160.00	90.44	182.43	12,369.74	-2,248.71	-307.56	2,258.71	0.81	0.57	0.57
15,254.00	90.62	181.20	12,368.87	-2,342.66	-310.53	2,352.70	1.32	0.19	-1.31
15,348.00	88.86	180.15	12,369.30	-2,436.65	-311.64	2,446.66	2.18	-1.87	-1.12
15,441.00	90.09	180.50	12,370.15	-2,529.64	-312.17	2,539.61	1.38	1.32	0.38
15,535.00	88.86	179.79	12,371.01	-2,623.63	-312.41	2,633.54	1.51	-1.31	-0.76
15,628.00	90.26	180.32	12,371.73	-2,716.63	-312.50	2,726.48	1.61	1.51	0.57
15,722.00	88.68	177.86	12,372.59	-2,810.60	-311.00	2,820.33	3.11	-1.68	-2.62
15,815.00	89.91	178.04	12,373.74	-2,903.53	-307.68	2,913.07	1.34	1.32	0.19
15,908.00	90.97	177.86	12,373.02	-2,996.47	-304.35	3,005.81	1.16	1.14	-0.19
16,002.00	89.91	177.51	12,372.30	-3,090.39	-300.55	3,099.52	1.19	-1.13	-0.37
16,096.00	90.26	177.16	12,372.16	-3,184.29	-296.18	3,193.19	0.53	0.37	-0.37
16,190.00	89.21	177.86	12,372.60	-3,278.20	-292.10	3,286.88	1.34	-1.12	0.74
16,283.00	90.09	178.21	12,373.17	-3,371.14	-288.91	3,379.63	1.02	0.95	0.38
16,378.00	89.91	177.86	12,373.17	-3,466.08	-285.65	3,474.39	0.41	-0.19	-0.37
16,472.00	89.91	177.51	12,373.31	-3,560.01	-281.86	3,568.10	0.37	0.00	-0.37
16,565.00	90.62	177.69	12,372.88	-3,652.92	-277.96	3,660.80	0.79	0.76	0.19
16,659.00	92.02	177.51	12,370.72	-3,746.81	-274.03	3,754.48	1.50	1.49	-0.19
16,754.00	92.20	177.51	12,367.22	-3,841.66	-269.90	3,849.10	0.19	0.19	0.00
16,848.00	90.79	178.04	12,364.77	-3,935.55	-266.25	3,942.79	1.60	-1.50	0.56
16,942.00	89.91	177.33	12,364.19	-4,029.47	-262.46	4,036.50	1.20	-0.94	-0.76
17,036.00	90.97	176.98	12,363.47	-4,123.35	-257.79	4,130.14	1.19	1.13	-0.37
17,129.00	89.74	178.74	12,362.90	-4,216.28	-254.32	4,222.87	2.31	-1.32	1.89
17,223.00	89.56	178.04	12,363.47	-4,310.24	-251.68	4,316.66	0.77	-0.19	-0.74
17,317.00	89.91	177.33	12,363.91	-4,404.16	-247.88	4,410.38	0.84	0.37	-0.76
17,410.00	89.38	178.92	12,364.48	-4,497.11	-244.84	4,503.14	1.80	-0.57	1.71
17,504.00	91.85	180.32	12,363.47	-4,591.09	-244.22	4,597.03	3.02	2.63	1.49
17,598.00	90.79	179.97	12,361.31	-4,685.06	-244.45	4,690.95	1.19	-1.13	-0.37
17,691.00	90.62	180.50	12,360.16	-4,778.06	-244.83	4,783.89	0.60	-0.18	0.57
17,785.00	89.03	180.67	12,360.45	-4,872.05	-245.79	4,877.85	1.70	-1.69	0.18
17,879.00	89.38	181.20	12,361.75	-4,966.03	-247.33	4,971.82	0.68	0.37	0.56
17,973.00	89.74	180.67	12,362.48	-5,060.01	-248.86	5,065.79	0.68	0.38	-0.56
18,066.00	91.32	181.73	12,361.62	-5,152.98	-250.81	5,158.77	2.05	1.70	1.14
18,160.00	90.44	181.55	12,360.17	-5,246.93	-253.50	5,252.76	0.96	-0.94	-0.19



Survey Report

Company:	EOG Resources	Local Co-ordinate Reference:	Well #704H
Project:	Lea County, NM (NAD 27 NME)	TVD Reference:	KB = 25 @ 3270.01ft
Site:	Rattlesnake 28 Fed Com	MD Reference:	KB = 25 @ 3270.01ft
Well:	#704H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
18,254.00	90.44	179.79	12,359.45	-5,340.92	-254.60	5,346.72	1.87	0.00	-1.87
18,348.00	91.14	179.44	12,358.15	-5,434.91	-253.97	5,440.62	0.83	0.74	-0.37
18,443.00	90.44	180.50	12,356.84	-5,529.89	-253.92	5,535.54	1.34	-0.74	1.12
18,537.00	90.44	181.38	12,356.12	-5,623.88	-255.46	5,629.51	0.94	0.00	0.94
18,631.00	90.62	179.97	12,355.25	-5,717.87	-256.57	5,723.47	1.51	0.19	-1.50
18,724.00	88.33	178.92	12,356.11	-5,810.85	-255.67	5,816.36	2.71	-2.46	-1.13
18,818.00	89.03	179.44	12,358.27	-5,904.81	-254.32	5,910.20	0.93	0.74	0.55
18,912.00	90.09	179.79	12,358.99	-5,998.81	-253.69	6,004.11	1.19	1.13	0.37
19,005.00	91.50	179.44	12,357.70	-6,091.79	-253.06	6,097.00	1.56	1.52	-0.38
19,100.00	88.86	177.51	12,357.40	-6,186.75	-250.54	6,191.79	3.44	-2.78	-2.03
19,194.00	90.62	178.04	12,357.83	-6,280.67	-246.89	6,285.51	1.96	1.87	0.56
19,288.00	92.55	178.92	12,355.23	-6,374.60	-244.39	6,379.28	2.26	2.05	0.94
19,382.00	90.62	179.62	12,352.63	-6,468.55	-243.20	6,473.12	2.18	-2.05	0.74
19,474.00	89.56	179.27	12,352.49	-6,560.54	-242.31	6,565.01	1.21	-1.15	-0.38
19,568.00	90.44	179.79	12,352.49	-6,654.54	-241.54	6,658.91	1.09	0.94	0.55
19,662.00	91.14	179.62	12,351.19	-6,748.53	-241.05	6,752.82	0.77	0.74	-0.18
19,711.00	90.26	178.56	12,350.59	-6,797.52	-240.27	6,801.74	2.81	-1.80	-2.16
19711' MD: Survey Depth									
19,769.00	90.26	178.56	12,350.33	-6,855.50	-238.82	6,859.63	0.00	0.00	0.00
19769' MD: Projection to Total Depth									

Survey Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
200.00	200.00	-1.03	0.16	200' MD: Begin DrilTech MWD
19,711.00	12,350.59	-6,797.52	-240.27	19711' MD: Survey Depth
19,769.00	12,350.33	-6,855.50	-238.82	19769' MD: Projection to Total Depth

Checked By: _____ Approved By: _____ Date: _____

EOG Resources

DrilTech, LLC

Project: Lea County, NM (NAD 27 NME)

Site: Rattlesnake 28 Fed Com

Well: #704H
Wellbore: OH
Plan: Plan #2

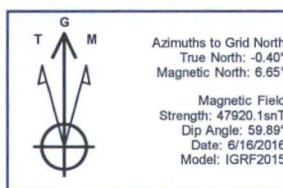
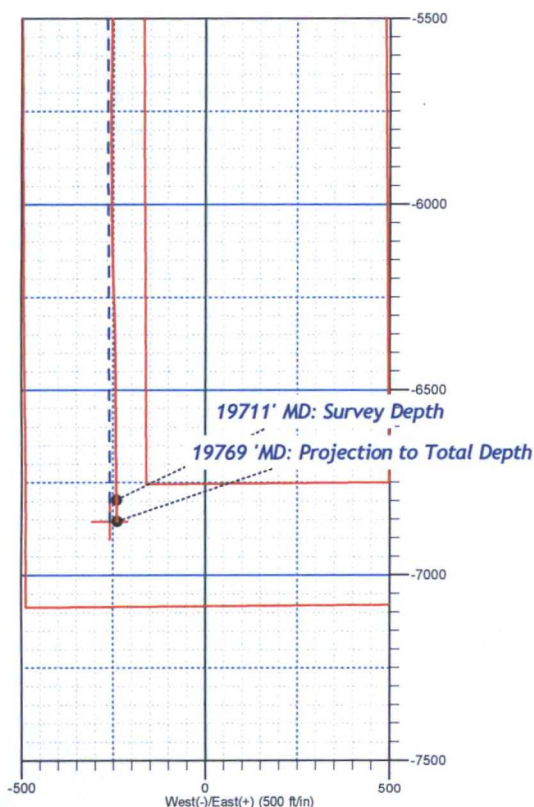
SURFACE LOCATION

US State Plane 1927 (Exact solution)

New Mexico East 3001

Elevation: KB = 25 @ 3270.01ft

Northing 371679.00 Easting 735024.00 32° 1' 10.534 N 103° 34' 30.097 W



SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1060.00	0.00	0.00	1060.00	0.00	0.00	0.00	0.00	0.00
2372.88	7.88	335.81	2368.75	82.19	-36.93	0.60	335.81	-80.75
6760.30	7.88	335.81	6714.77	630.68	-283.34	0.00	0.00	-619.58
7548.03	0.00	0.00	7500.02	680.00	-305.50	1.00	180.00	-668.03
11940.54	0.00	0.00	11892.52	680.00	-305.50	0.00	0.00	-668.03
12689.44	89.87	179.64	12369.99	203.64	-302.53	12.00	179.64	-192.12
14883.63	89.87	179.64	12375.02	-1990.50	-288.85	0.00	0.00	1999.96
14890.22	90.00	179.64	12375.03	-1997.10	-288.81	2.00	-2.63	2006.54
17386.09	90.00	179.64	12375.02	-4492.91	-272.98	0.00	0.00	4500.00
17416.61	89.39	179.64	12375.19	-4523.43	-272.79	2.00	180.00	4530.49
19748.37	89.39	179.64	12400.02	-6855.01	-258.00	0.00	0.00	6859.87

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
TGT #1 (RS 28 Fed Com #704H)	12375.02	-1990.50	-288.85	369688.50	734735.15
TGT #2 (RS 28 Fed Com #704H)	12375.02	-4492.91	-272.98	367186.10	734751.02
FTP(RS 28 Fed Com #704H) (copy)	12400.02	399.00	-304.00	372078.00	734720.00
PBHL(RS 28 Fed Com #704H) (copy)	12400.02	-6855.01	-258.00	364824.00	734766.00

