

HOBBS OCD
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EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Green Drake 16 Fed Com

#702H

OH

Design: OH

Final PVA Report

12 March, 2019



Final PVA Report

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #702H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3443.0usft (HP 444)
Site:	Green Drake 16 Fed Com	MD Reference:	KB = 25 @ 3443.0usft (HP 444)
Well:	#702H	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	Green Drake 16 Fed Com		
Site Position:		Northing:	411,802.00 usft
From:	Map	Easting:	773,380.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 7' 47.652 N
		Longitude:	103° 35' 1.431 W
		Grid Convergence:	0.40 "

Well	#702H		
Well Position	+N-S	0.0 usft	Northing:
	+E-W	0.0 usft	Easting:
Position Uncertainty	0.0 usft		Wellhead Elevation:
			usft
			Latitude:
			Longitude:
			Ground Level:
			3,418.0 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination
			(°)
			Dip Angle
			(°)
			Field Strength
			(nT)
	IGRF2015	7/3/2018	6.84
			59.96
			47,773.75203846

Design	OH		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N-S	+E-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction
			(°)
			178.63

Survey Program	Date	3/12/2018		
From	To	Survey (Wellbore)	Tool Name	Description
(usft)	(usft)			
142.0	19,552.0	Intrepid MWD #1 (OH)	MWD	OWSG MWD - Standard



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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)	
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.0	0.0	0.0
142.0	1.10	171.30	142.0	-1.3	0.2	0.77	0.77	0.00	-1.4	0.0	
326.0	0.50	185.10	326.0	-3.9	0.4	0.34	-0.33	7.50	-3.8	0.7	
502.0	0.70	177.50	502.0	-5.7	0.4	0.12	0.11	-4.32	-5.7	0.1	
690.0	0.50	193.40	690.0	-7.7	0.2	0.14	-0.11	8.46	-7.4	2.0	
878.0	0.80	231.40	877.9	-9.3	-1.0	0.27	0.16	20.21	-8.6	6.7	
1,065.0	0.40	182.20	1,064.9	-10.8	-2.0	0.33	-0.21	-26.31	-10.8	-1.6	
1,133.0	0.70	182.00	1,132.9	-11.4	-2.0	0.44	0.44	-0.29	-11.5	-1.6	
1,245.0	0.70	119.50	1,244.9	-12.4	-1.5	0.65	0.00	-55.80	-4.8	-11.5	
1,433.0	0.80	113.30	1,432.9	-13.5	0.7	0.07	0.05	-3.30	-6.0	-12.1	
1,621.0	0.80	112.30	1,620.9	-14.5	3.2	0.01	0.00	-0.53	-8.4	-12.3	
1,809.0	0.80	105.30	1,808.9	-15.3	5.3	0.12	-0.11	-3.72	-9.2	-13.3	
1,997.0	0.50	102.10	1,996.9	-15.7	7.1	0.08	-0.05	-1.70	-10.2	-13.9	
2,185.0	0.40	105.40	2,184.9	-16.1	8.5	0.05	-0.05	1.76	-12.5	-13.2	
2,373.0	4.50	35.10	2,372.7	-10.2	13.4	2.33	2.18	-37.39	0.7	-16.8	
2,562.0	4.80	40.90	2,561.0	1.8	22.8	0.29	0.16	3.07	-15.7	-16.2	
2,749.0	8.00	35.90	2,746.8	18.3	35.6	1.74	1.71	-2.67	-24.9	-18.6	
2,936.0	8.40	34.40	2,931.9	40.1	50.9	0.24	0.21	-0.80	-32.1	-20.1	
3,125.0	8.50	34.20	3,118.6	64.4	67.5	0.58	0.58	-0.11	-41.7	-20.6	
3,313.0	8.50	29.50	3,304.3	89.3	83.1	0.66	-0.53	-2.50	-49.7	-24.0	
3,500.0	6.50	22.60	3,489.7	111.1	93.9	1.17	-1.07	-3.69	-51.6	-27.8	
3,688.0	4.90	5.10	3,676.8	128.9	98.7	1.25	-0.85	-9.31	-41.7	-36.0	
3,876.0	4.70	16.50	3,864.1	144.3	101.6	0.52	-0.11	6.06	-44.7	-19.9	
4,064.0	3.80	16.40	4,051.6	157.8	105.8	0.43	-0.43	-0.05	-39.9	-14.3	
4,251.0	3.40	14.90	4,238.2	169.3	108.8	0.27	-0.27	-0.80	-32.8	-9.4	
4,439.0	5.10	51.50	4,425.7	179.9	116.8	1.66	0.90	19.47	-26.1	9.0	
4,627.0	2.50	54.50	4,613.3	187.5	126.7	1.39	-1.38	1.60	-19.7	3.6	



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Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Survey											
MD (usft)	Inc (")	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg ("/100usft)	BuId ("/100usft)	Turn ("/100usft)	High to Plan (usft)	Right to Plan (usft)	
4,814.0	4.20	100.00	4,800.0	188.7	138.8	1.62	0.91	24.33	-13.3	1.8	
5,001.0	1.10	195.60	4,986.8	185.7	143.0	2.38	-1.68	51.12	-9.9	18.2	
5,189.0	1.40	184.80	5,174.8	181.7	142.4	0.20	0.18	-5.74	-18.3	12.9	
5,376.0	1.30	170.80	5,361.7	177.3	142.5	0.18	-0.05	-7.49	-25.2	7.6	
5,564.0	1.50	169.50	5,549.7	172.8	143.3	0.11	0.11	-0.69	-29.9	7.0	
5,751.0	1.20	288.30	5,736.7	171.0	141.9	1.25	-0.16	63.53	19.7	25.0	
5,939.0	1.10	291.50	5,924.6	172.3	138.3	0.06	-0.05	1.70	17.3	24.0	
6,126.0	1.00	288.80	6,111.6	173.4	135.1	0.07	-0.05	-2.51	11.9	25.2	
6,314.0	1.00	280.80	6,299.6	174.2	131.9	0.06	0.00	-3.19	5.9	28.1	
6,501.0	0.80	232.80	6,486.5	173.7	129.3	0.40	-0.11	-25.67	-17.9	20.7	
6,688.0	1.00	239.60	6,673.5	172.1	126.8	0.12	0.11	3.64	-18.2	22.8	
6,877.0	1.70	177.90	6,862.5	168.5	125.5	0.80	0.37	-32.65	-32.3	-6.7	
7,065.0	1.00	61.50	7,050.4	166.5	127.0	1.24	-0.37	-61.91	19.9	-28.5	
7,252.0	1.40	43.50	7,237.4	168.9	130.1	0.29	0.21	-9.63	23.9	-21.4	
7,439.0	1.80	24.70	7,424.3	173.2	132.9	0.35	0.21	-10.05	24.4	-13.3	
7,627.0	1.70	30.60	7,612.2	178.3	135.5	0.11	-0.05	3.14	17.2	-15.4	
7,815.0	1.40	32.60	7,800.2	182.7	138.2	0.16	-0.16	1.08	11.8	-15.9	
8,002.0	1.00	39.70	7,987.1	185.8	140.4	0.23	-0.21	3.80	5.6	-16.9	
8,189.0	0.70	37.70	8,174.1	188.0	142.2	0.16	-0.16	-1.07	3.4	-16.8	
8,376.0	0.60	63.00	8,361.1	189.3	143.7	0.16	-0.05	13.53	-6.1	-16.2	
8,564.0	0.40	103.90	8,549.1	189.6	145.3	0.21	-0.11	21.78	-16.8	-7.8	
8,752.0	0.60	134.10	8,737.1	188.8	146.6	0.17	0.11	18.08	-19.7	2.1	
8,940.0	1.00	162.60	8,925.1	186.5	147.8	0.29	0.21	15.16	-18.8	11.7	
9,128.0	1.10	166.20	9,113.0	183.2	148.7	0.06	0.05	1.91	-21.5	13.0	
9,316.0	0.80	188.50	9,301.0	180.2	148.7	0.32	-0.16	17.18	-14.1	23.4	
9,505.0	1.30	174.70	9,490.0	176.8	148.5	0.35	0.26	-12.59	-25.7	15.2	
9,692.0	1.40	194.90	9,676.9	172.5	148.1	0.26	0.05	10.80	-23.1	23.9	



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MD (usft)	Inc (")	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	EW (usft)	DLeg (°/100usft)	Bellid (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
9,880.0	1.90	216.50	9,864.8	167.8	145.7	0.42	0.27	11.49	-17.9	31.6
10,067.0	1.70	193.10	10,051.8	162.6	143.2	0.40	-0.11	-12.51	-34.6	20.6
10,255.0	0.70	247.40	10,239.7	159.4	141.5	0.75	-0.53	28.88	-6.3	42.4
10,442.0	0.70	251.10	10,426.7	158.6	139.4	0.02	0.00	1.98	-5.8	42.8
10,630.0	1.10	324.50	10,614.7	159.7	137.2	0.60	0.21	39.04	37.2	18.9
10,816.0	1.40	237.20	10,800.7	160.0	134.3	0.94	0.16	-46.94	-19.5	36.3
11,004.0	3.00	285.60	10,988.5	160.0	127.6	1.23	0.85	25.74	7.8	40.4
11,192.0	2.00	285.30	11,176.3	162.2	119.7	0.53	-0.53	-0.16	-0.6	40.4
11,380.0	2.20	262.00	11,364.2	162.6	113.0	0.46	0.11	-12.39	-23.2	35.5
11,496.0	2.20	272.90	11,480.1	162.4	108.6	0.36	0.00	9.40	-20.4	39.7
11,683.0	1.90	263.40	11,667.0	162.2	101.9	0.24	-0.16	-5.08	-33.4	35.2
11,870.0	2.70	169.00	11,853.9	157.7	97.4	1.36	0.43	-34.44	-51.9	-17.7
11,964.0	3.10	193.00	11,947.8	153.1	96.1	0.53	0.43	-6.36	-54.5	-23.3
11,994.0	3.80	186.20	11,977.7	151.3	95.8	2.70	2.33	-22.67	-53.1	-29.7
12,000.1	3.93	185.01	11,983.8	150.9	95.8	2.47	2.09	-19.56	-52.9	-30.8
HL Crossing, MD:12000.1', TVD:11983.8', N/S:150.9', EW:95.8', INC:3.93										
12,034.7	4.68	179.50	12,018.3	148.3	95.7	2.47	2.17	-15.92	-52.3	-35.9
KOP (GD 16 FC #702H)										
12,058.0	5.20	176.70	12,041.5	146.3	95.7	2.47	2.24	-12.02	-52.1	-38.3
12,105.0	8.80	168.50	12,088.2	140.7	96.6	7.93	7.66	-17.45	-47.3	-44.6
12,152.0	12.20	164.10	12,134.4	132.4	98.7	7.43	7.23	-9.36	-43.0	-45.5
12,245.0	22.90	170.10	12,222.9	105.0	104.5	11.65	11.51	6.45	-41.8	-33.8
12,339.0	29.50	165.70	12,307.2	64.5	113.4	7.31	7.02	-4.68	-28.8	-24.7
12,432.0	38.30	171.90	12,384.4	13.7	123.1	10.16	9.46	6.67	-12.6	-10.5
FTP (GD 16 FC #702H)										
12,527.0	47.60	172.10	12,453.8	-50.3	132.1	9.79	9.79	0.21	9.6	0.0
12,621.0	67.60	174.10	12,503.9	-126.7	141.4	21.35	21.28	2.13	25.9	9.1



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12,652.0	76.20	175.60	12,513.6	-158.0	144.0	28.12	27.74	4.84	27.5	11.2	
12,607.0	89.10	175.50	12,533.3	-311.0	155.9	8.32	8.32	-0.06	33.4	21.6	
12,901.0	90.30	177.10	12,533.8	-404.8	162.0	2.13	1.28	1.70	33.9	27.1	
12,995.0	89.20	177.50	12,534.2	-488.7	166.4	1.25	-1.17	0.43	34.3	30.9	
13,089.0	89.40	177.60	12,535.4	-582.8	170.5	0.24	0.21	0.11	35.4	34.3	
13,183.0	90.70	177.90	12,535.3	-686.5	174.1	1.42	1.38	0.32	35.4	37.4	
13,276.0	92.60	180.20	12,532.6	-779.4	175.7	3.21	2.04	2.47	32.6	38.4	
13,369.0	91.30	177.30	12,529.5	-872.4	177.7	3.42	-1.40	-3.12	29.5	39.8	
13,462.0	89.30	176.40	12,529.0	-965.2	182.8	2.36	-2.15	-0.97	28.0	44.3	
13,555.0	91.20	177.20	12,528.6	-1,058.1	188.0	2.22	2.04	0.86	28.6	48.9	
13,648.0	89.30	178.70	12,528.2	-1,152.0	191.4	2.58	-2.02	1.60	28.2	51.7	
13,742.0	90.70	182.30	12,528.2	-1,245.0	190.6	4.15	1.51	3.87	28.2	50.3	
13,836.0	89.80	184.30	12,527.7	-1,338.8	185.2	2.29	-0.85	2.13	27.8	44.2	
13,930.0	90.20	186.90	12,527.6	-1,432.4	178.0	2.78	0.32	2.77	27.7	34.4	
14,023.0	89.00	186.40	12,528.2	-1,524.7	165.2	1.40	-1.29	-0.54	28.3	23.0	
14,117.0	88.30	182.70	12,530.5	-1,618.4	157.8	4.00	-0.74	-3.94	30.5	15.0	
14,211.0	90.60	181.70	12,531.4	-1,712.3	154.2	2.87	2.45	-1.06	31.4	10.8	
14,305.0	90.70	180.30	12,530.3	-1,806.3	152.5	1.49	0.11	-1.49	30.3	8.6	
14,398.0	88.20	179.90	12,531.2	-1,899.3	152.4	2.72	-2.69	-0.43	31.2	7.8	
14,492.0	92.90	180.00	12,530.3	-1,993.2	152.4	5.00	5.00	0.11	30.3	7.3	
14,496.0	92.68	179.94	12,530.1	-1,987.2	152.4	5.69	-5.48	-1.51	30.1	7.3	
TOT 1 (GD 16 FC #702H)											
14,585.0	87.80	178.60	12,529.7	-2,086.2	153.6	5.69	-5.48	-1.51	30.3	7.9	
14,680.0	89.00	181.10	12,532.4	-2,181.2	153.8	2.92	1.26	2.63	33.7	7.5	
14,773.0	90.40	183.00	12,532.9	-2,274.1	150.5	2.54	1.51	2.04	34.9	3.6	
14,867.0	92.60	183.30	12,530.4	-2,367.9	145.3	2.36	2.34	0.32	33.1	-2.2	
14,961.0	95.50	183.70	12,523.8	-2,461.5	139.6	3.11	3.09	0.43	27.2	-8.5	



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15,054.0	91.30	178.30	12,518.2	-2,554.2	139.6	9.14	-4.52	-7.96	22.4	-9.1	
15,148.0	91.10	171.00	12,516.3	-2,647.6	150.0	5.84	-0.21	-5.64	21.1	0.7	
15,242.0	91.30	170.30	12,514.3	-2,740.3	165.3	0.77	0.21	-0.74	19.9	15.2	
15,336.0	92.10	172.50	12,511.5	-2,833.2	179.3	2.49	0.85	2.34	17.9	28.7	
15,430.0	89.90	172.80	12,509.9	-2,926.4	181.4	2.36	-2.34	0.32	16.9	40.2	
15,523.0	89.20	177.20	12,510.6	-3,019.1	198.5	4.79	-0.75	4.73	18.2	47.7	
15,616.0	89.50	180.70	12,511.7	-3,112.0	201.2	3.78	0.32	3.78	20.0	48.8	
15,710.0	88.40	180.90	12,513.4	-3,208.0	199.8	1.19	-1.17	0.21	22.4	46.9	
15,803.0	93.30	182.40	12,512.0	-3,298.9	197.2	5.51	5.27	1.61	21.6	43.7	
15,897.0	89.80	180.40	12,509.5	-3,392.8	194.9	4.29	-3.72	-2.13	19.9	40.8	
15,891.0	95.30	183.80	12,505.3	-3,486.6	191.4	6.88	5.85	3.62	16.2	36.8	
16,086.0	94.90	186.00	12,496.8	-3,580.9	183.4	2.34	-0.42	2.32	8.5	28.1	
16,180.0	91.60	183.80	12,491.5	-3,674.4	175.4	4.22	-3.51	-2.34	4.0	19.4	
16,273.0	92.00	178.60	12,488.6	-3,767.3	173.4	5.61	0.43	-5.59	1.9	16.9	
16,366.0	90.30	177.20	12,488.7	-3,860.2	176.8	2.37	-1.83	-1.51	0.7	18.7	
16,460.0	91.40	177.20	12,485.3	-3,954.1	181.4	1.17	1.17	0.00	0.0	23.7	
16,502.7	91.22	178.35	12,484.3	-3,998.7	183.1	2.72	-0.43	2.69	-0.7	25.1	
TOT 2 (GD 16 FC #702H)											
16,553.0	91.00	179.70	12,483.4	-4,047.0	183.9	2.72	-0.43	2.69	-1.1	25.6	
16,647.0	90.50	175.50	12,482.1	-4,140.9	187.9	4.50	-0.53	-4.47	-1.4	28.9	
16,740.0	91.50	175.10	12,480.5	-4,233.6	195.5	1.16	1.08	-0.43	-2.1	35.9	
16,834.0	91.10	174.80	12,478.4	-4,327.2	203.7	0.53	-0.43	-0.32	-3.3	43.6	
16,927.0	90.00	177.20	12,477.5	-4,419.9	210.2	2.84	-1.18	2.58	-3.3	49.5	
17,021.0	90.80	173.50	12,476.8	-4,513.6	217.8	4.03	0.85	-3.94	-2.9	56.5	
17,114.0	90.20	172.60	12,476.0	-4,605.9	229.1	1.18	-0.65	-0.97	-2.9	67.2	
17,208.0	90.70	181.70	12,475.3	-4,699.7	233.8	9.70	0.53	9.68	-2.7	71.2	
17,302.0	88.20	186.60	12,478.2	-4,793.4	227.0	5.85	-2.66	5.21	-0.6	63.8	



Final PVA Report

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #702H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3443.0usft (HP 444)
Site:	Green Drake 16 Fed Com	MD Reference:	KB = 25 @ 3443.0usft (HP 444)
Well:	#702H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Survey											
MD (usft)	Inc (°)	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	EWI (usft)	DLeg (°/100usft)	Buile (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
17,396.0	89.30	184.60	12,478.2	-4,886.9	217.8	2.43	1.17	-2.13	2.2	54.1	
17,489.0	89.20	181.50	12,479.4	-4,979.8	212.9	3.33	-0.11	-3.33	4.3	48.5	
17,583.0	91.10	181.50	12,479.2	-5,073.8	210.4	2.02	2.02	0.00	4.9	45.5	
17,677.0	91.50	180.60	12,477.1	-5,167.7	208.7	1.05	0.43	-0.96	3.8	43.1	
17,771.0	90.20	177.20	12,475.7	-5,261.7	210.5	3.87	-1.38	-3.82	3.3	44.3	
17,864.0	91.10	179.30	12,474.6	-5,354.6	213.3	2.46	0.97	2.26	3.2	46.6	
17,958.0	91.30	181.90	12,472.7	-5,448.6	212.3	2.77	0.21	2.77	2.1	45.0	
18,052.0	92.20	182.50	12,469.8	-5,542.5	208.7	1.15	0.96	0.84	0.2	40.8	
18,145.0	91.60	181.50	12,468.7	-5,635.4	205.5	1.25	-0.65	-1.08	-2.0	38.9	
18,239.0	91.70	183.10	12,464.0	-5,729.2	201.7	1.70	0.11	1.70	-3.8	32.5	
18,333.0	86.30	187.50	12,465.6	-5,822.8	193.0	7.41	-5.74	4.68	-0.9	23.3	
18,427.0	85.90	188.10	12,472.0	-5,915.7	180.3	0.77	-0.43	0.64	6.3	9.9	
18,509.1	89.31	186.96	12,475.5	-5,997.0	169.6	4.37	4.15	-1.38	10.5	-1.3	
TGT 3 (GD 16 FC #702H)											
18,521.0	89.80	186.80	12,475.6	-6,008.8	168.1	4.37	4.15	-1.38	10.7	-2.8	
18,615.0	89.80	186.30	12,475.9	-6,102.2	157.4	0.53	0.00	-0.53	12.3	-14.1	
18,709.0	95.20	187.90	12,471.8	-6,195.3	145.8	5.99	5.74	1.70	9.7	-28.2	
18,803.0	90.90	184.60	12,468.8	-6,288.8	135.6	5.76	-4.57	-3.51	5.6	-37.1	
18,897.0	93.80	178.20	12,462.9	-6,382.5	133.3	7.47	3.09	-6.81	2.8	-40.1	
18,991.0	91.80	187.50	12,458.3	-6,476.1	128.6	10.11	-2.13	9.89	-0.4	-45.3	
19,085.0	88.20	186.50	12,458.3	-6,569.4	117.2	3.97	-3.83	-1.06	0.4	-57.4	
19,179.0	89.10	181.90	12,460.5	-6,663.1	110.3	4.99	0.96	-4.89	4.0	-64.9	
19,273.0	89.10	177.90	12,462.0	-6,757.1	110.5	4.25	0.00	-4.26	6.8	-65.3	
19,366.0	92.20	181.70	12,461.0	-6,850.0	110.8	5.27	3.33	4.09	6.9	-65.6	
19,460.0	90.30	190.60	12,458.9	-6,943.4	100.7	9.68	-2.02	9.47	6.2	-76.2	
19,494.0	91.50	190.30	12,458.4	-6,976.8	94.6	3.64	3.53	-0.88	6.4	-82.6	
Final MWD Survey (MD=19494.0')											



Final PVA Report

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #702H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3443.0usft (HP 444)
Site:	Green Drake 16 Fed Com	MD Reference:	KB = 25 @ 3443.0usft (HP 444)
Well:	#702H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

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)	
19,552.0	91.50	190.31	12,456.8	-7,033.8	84.2	0.02	0.00	0.02	5.7	-93.3	
Final Projection to Bit (MD=19552.0) - PBHL (GD 16 FC #702H)											

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/S (usft)	+E/W (usft)	
12,000.1	11,983.8	150.9	95.8	HL Crossing, MD:12000.1', TVD:11983.8', N/S:150.9', E/W:95.8', INC:3.93
19,494.0	12,458.4	-8,976.8	94.6	Final MWD Survey (MD=19494.0')
19,552.0	12,456.8	-7,033.8	84.2	Final Projection to Bit (MD=19552.0')

Checked By: _____ Approved By: _____ Date: _____



Lea County, NM (NAD 83 NME)
Green Drake 16 Fed Com #702H
HP 444
Plan #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: #702H

KB = 25 @ 3443.0ust (HP 444)
Northing 411802.00 Easting 773413.00 Latitude 32° 7' 47.550 N Longitude 102° 35' 1.042 W

To convert a Magnetic Direction to a Grid Direction, Add 9.64°
To convert a Magnetic Direction to a True Direction, Add 9.64° East
To convert a True Direction to a Grid Direction, Subtract 9.64°

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	Vsect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	2500.0	0.00	0.00	2500.0	0.0	0.0	0.00	0.00	0.0	
3	2800.1	6.00	33.09	2799.6	13.2	8.6	2.00	33.09	-13.0	
4	4793.9	6.00	33.09	4782.4	187.8	122.4	0.00	0.00	-184.9	
5	5094.0	0.00	0.00	5082.0	201.0	131.0	2.00	180.00	-197.8	
6	12034.5	0.00	0.00	12022.5	201.0	131.0	0.00	0.00	-197.8	KOP (GD 16 FC #702H)
7	12784.5	90.00	179.63	12500.0	-276.4	134.1	12.00	179.63	279.6	
8	14505.2	90.00	179.63	12500.0	-1997.1	145.1	0.00	0.00	2000.0	TGT 1 (GD 16 FC #702H)
9	14526.9	90.43	179.63	12499.9	-2018.8	145.3	2.00	0.00	2021.7	
10	16505.6	90.43	179.63	12485.0	-3997.4	158.0	0.00	0.00	4000.0	TGT 2 (GD 16 FC #702H)
11	16512.7	90.57	179.63	12484.9	-4004.5	158.1	2.00	0.00	4007.1	
12	18506.0	90.57	179.63	12465.0	-5997.6	170.9	0.00	0.00	6000.0	TGT 3 (GD 16 FC #702H)
13	18514.0	90.73	179.63	12464.9	-6005.6	170.9	2.00	-0.06	6008.0	
14	20068.5	90.73	179.63	12445.0	-7560.0	180.9	0.00	0.00	7562.2	PBHL (GD 16 FC #702H)

CASING DETAILS

No casing data is available

WELLBORE TAPPOINT DETAILS (MAP COORDINATES)

Name	TVD	+N-S	+E-W	Northing	Easting
KOP (GD 16 FC #702H)	12022.5	201.0	131.0	412003.00	773544.00
PBHL (GD 16 FC #702H)	12445.0	-7560.0	180.9	404242.01	773593.94
TGT 1 (GD 16 FC #702H)	12485.0	-3997.4	170.9	402804.40	773533.89
TGT 2 (GD 16 FC #702H)	12485.0	-3997.4	158.0	407804.60	773571.01
TGT 3 (GD 16 FC #702H)	12500.0	151.0	131.0	411853.00	773544.00
TGT 1 (GD 16 FC #702H)	12500.0	-1997.1	145.1	402804.90	773538.14

