



Lea County, NM (NAD 83 NME)

Diamond 31 Fed Com #702H

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 @ 3493.0usft 3468.0
Northing 425996.00 Easting 794435.00 Latitude 32° 10' 8.588 N Longitude 103° 30' 55.336 W

SECTION DETAILS

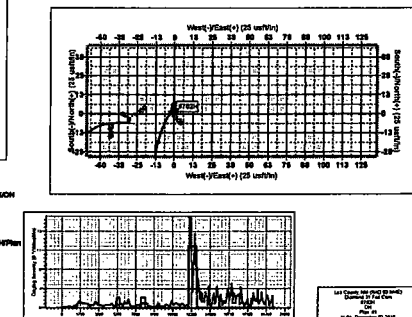
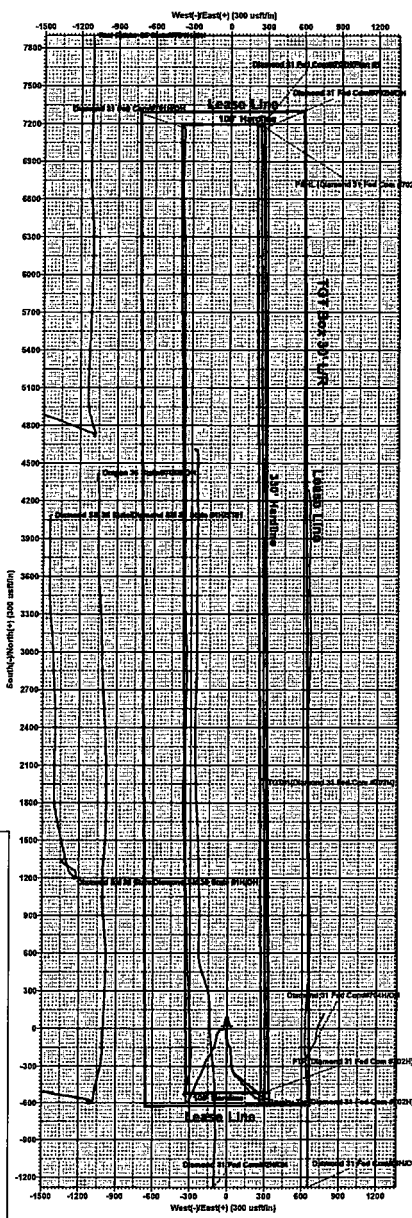
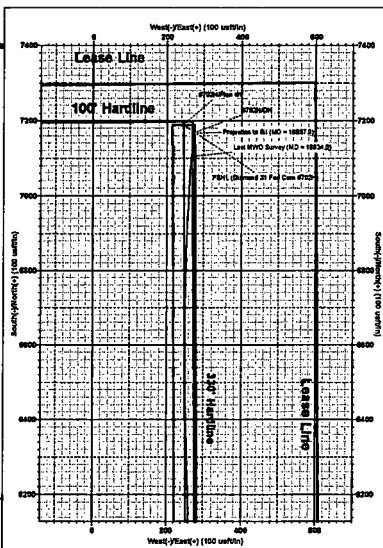
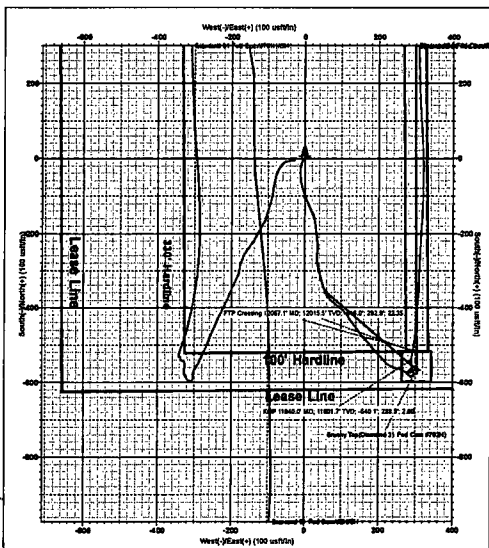
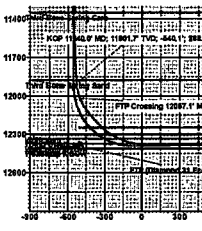
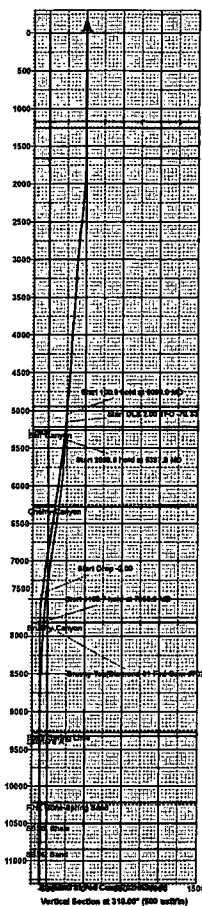
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSeet	Target
1	5060.0	4.98	164.44	5042.1	-335.8	47.2	0.00	0.00	-333.9	
2	5160.0	4.98	164.44	5141.7	-344.1	49.6	0.00	0.00	-342.2	
3	5397.9	7.96	130.10	5378.2	-364.7	64.9	2.00	-70.33	-362.3	
4	7455.9	7.96	130.10	7416.3	-546.2	282.9	0.00	0.00	-536.3	
5	7853.8	0.00	0.00	7813.0	-566.0	304.0	2.00	180.00	-555.3	
6	11954.5	0.00	0.00	11913.7	-566.0	304.0	0.00	0.00	-555.3	Brushy Top(Diamond 31 Fed Com #702H)
7	12711.7	90.86	359.56	12391.1	-81.4	300.3	12.00	359.56	-71.1	
8	14784.9	90.86	359.56	12360.0	1991.5	284.5	0.00	0.00	2000.0	TGT#1(Diamond 31 Fed Com #702H)
9	14803.6	91.24	359.56	12359.7	2010.3	284.4	2.00	0.00	2018.8	
10	19983.7	91.24	359.56	12248.0	7189.0	245.0	0.00	0.00	7193.2	PBHL (Diamond 31 Fed Com #702H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
Brushy Top(Diamond 31 Fed Com #702H)	7815.0	-668.0	304.0	426430.00	794739.00
PBHL (Diamond 31 Fed Com #702H)	12248.0	7189.0	245.0	433119.00	794650.00
TGT#1(Diamond 31 Fed Com #702H)	12360.0	1991.5	284.5	427987.50	794719.54
FTP (Diamond 31 Fed Com #702H)	12390.0	-516.0	304.0	425490.00	794739.00





HOBBS OCD
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EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Diamond 31 Fed Com

#702H

OH

Design: OH

Midland PVA

22 December, 2018



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #702H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3493.0usft
Site:	Diamond 31 Fed Com	MD Reference:	KB = 25 @ 3493.0usft
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	Diamond 31 Fed Com		
Site Position:		Northing:	425,996.00 usft
From:	Map	Easting:	794,470.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 10' 6.586 N
		Longitude:	103° 30' 54.929 W
		Grid Convergence:	0.44 °

Well	#702H		
Well Position	+N-S 0.0 usft	Northing:	425,996.00 usft
	+E-W 0.0 usft	Easting:	794,435.00 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Latitude:	32° 10' 6.588 N
		Longitude:	103° 30' 55.336 W
		Ground Level:	3,468.0 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination
	IGRF2015	8/28/2017	6.90
			Dip Angle
			60.02
			Field Strength
			47,890.45824773

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
			(°)
			1.95



Midland PVA

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Well:	#702H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Survey Program		Date	12/22/2018		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
185.0	1,283.0	MWD Cartel 41 8' +17' (OH)	MWD	OWSG MWD - Standard	
1,379.0	5,060.0	Gordon MWD Cartel 18 (OH)	MWD	OWSG MWD - Standard	
5,173.0	19,897.0	Newsco MWD (OH)	MWD	OWSG MWD - Standard	

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)
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.0	0.0
185.0	0.20	12.13	185.0	0.3	0.1	0.11	0.11	0.00	0.0	0.0
373.0	0.35	15.29	373.0	1.2	0.3	0.08	0.08	1.68	0.0	0.0
530.0	0.48	51.42	530.0	2.1	0.9	0.18	0.08	23.01	0.0	0.0
689.0	0.15	113.82	689.0	2.4	1.6	0.27	-0.21	39.25	0.0	0.0
1,007.0	0.29	54.76	1,007.0	2.7	2.7	0.08	0.04	-18.57	0.0	0.0
1,166.0	0.62	282.04	1,166.0	3.1	2.2	0.53	0.21	-83.47	0.0	0.0
1,283.0	0.57	242.67	1,283.0	3.0	1.0	0.34	-0.04	-33.65	0.0	0.0
1,379.0	0.56	273.27	1,379.0	2.6	0.1	0.31	-0.01	31.87	0.0	0.0
1,553.0	2.53	217.28	1,552.9	-0.2	-3.0	1.30	1.13	-32.18	0.0	0.0
1,728.0	4.44	202.74	1,727.6	-9.6	-8.0	1.19	1.09	-8.31	0.0	0.0
1,902.0	5.61	190.52	1,900.9	-24.1	-12.2	0.91	0.67	-7.02	0.0	0.0
2,077.0	6.35	177.96	2,075.0	-42.2	-13.4	0.86	0.42	-7.18	0.0	0.0
2,251.0	7.43	170.45	2,247.7	-62.9	-11.2	0.81	0.62	-4.32	0.0	0.0
2,426.0	7.72	160.18	2,421.2	-85.1	-5.3	0.79	0.17	-5.87	0.0	0.0
2,600.0	7.41	157.63	2,593.7	-106.5	2.9	0.26	-0.18	-1.47	0.0	0.0
2,775.0	6.63	155.63	2,767.4	-126.1	11.4	0.47	-0.45	-1.14	0.0	0.0
2,949.0	5.90	153.28	2,940.3	-143.3	19.6	0.44	-0.42	-1.35	0.0	0.0
3,124.0	4.17	167.75	3,114.7	-157.5	25.0	1.22	-0.99	8.27	0.0	0.0
3,298.0	5.34	173.26	3,288.1	-171.8	27.3	0.72	0.67	3.17	0.0	0.0



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #702H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3493.0usft
Site:	Diamond 31 Fed Com	MD Reference:	KB = 25 @ 3493.0usft
Well:	#702H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Survey											
MD (usft)	Inc (")	Asl (azimuth) (")	TVD (usft)	N/S (usft)	E/W (usft)	DLeg ("/100usft)	Build ("/100usft)	Turn ("/100usft)	High to Plan (usft)	Right to Plan (usft)	
3,473.0	6.38	173.47	3,462.1	-189.5	29.3	0.59	0.59	0.12	0.0	0.0	
3,647.0	5.67	170.77	3,635.2	-207.6	31.8	0.44	-0.41	-1.55	0.0	0.0	
3,822.0	5.75	177.54	3,809.3	-224.9	33.6	0.39	0.05	3.87	0.0	0.0	
3,996.0	5.88	183.18	3,982.4	-242.5	33.4	0.34	0.07	3.24	0.0	0.0	
4,170.0	4.72	184.65	4,155.7	-258.5	32.4	0.67	-0.67	0.84	0.0	0.0	
4,344.0	4.91	175.53	4,329.1	-273.1	32.4	0.45	0.11	-5.24	0.0	0.0	
4,519.0	4.38	168.83	4,503.5	-287.1	34.2	0.43	-0.30	-3.83	0.0	0.0	
4,693.0	5.73	162.41	4,676.8	-301.9	38.1	0.84	0.78	-3.69	0.0	0.0	
4,868.0	5.53	166.97	4,851.0	-318.5	42.7	0.28	-0.11	2.61	0.0	0.0	
5,042.0	5.21	163.80	5,024.2	-334.2	46.8	0.25	-0.18	-1.82	0.0	0.0	
5,060.0	4.88	164.44	5,042.1	-335.8	47.2	1.32	-1.28	3.56	0.0	0.0	
5,173.0	4.00	162.20	5,154.8	-344.2	49.7	0.88	-0.87	-1.98	1.0	0.2	
5,361.0	3.20	156.20	5,342.4	-355.3	53.9	0.47	-0.43	-3.19	8.6	-4.3	
5,548.0	4.60	143.70	5,529.0	-366.1	60.4	0.87	0.75	-6.68	21.8	-9.3	
5,736.0	4.90	137.80	5,716.3	-378.1	70.3	0.30	0.16	-3.14	33.0	-11.3	
5,923.0	6.90	123.90	5,902.3	-390.3	85.0	1.31	1.07	-7.43	41.5	-2.3	
6,111.0	6.30	133.80	6,089.1	-403.7	101.8	0.68	-0.32	5.27	45.1	-9.0	
6,299.0	8.90	145.90	6,275.4	-422.9	117.4	1.62	1.38	6.44	42.7	-23.1	
6,487.0	8.50	142.30	6,461.3	-448.0	134.0	0.36	-0.21	-1.91	41.1	-26.8	
6,675.0	7.90	141.20	6,647.4	-467.0	150.6	0.33	-0.32	-0.59	40.3	-31.3	
6,862.0	8.40	140.30	6,832.5	-487.5	167.4	0.28	0.27	-0.48	39.8	-35.5	
7,050.0	7.70	137.70	7,018.6	-507.4	184.6	0.42	-0.37	-1.38	40.8	-37.7	
7,237.0	6.40	140.20	7,204.2	-524.7	199.7	0.71	-0.70	1.34	41.7	-43.5	
7,426.0	6.70	135.70	7,392.0	-540.7	214.2	0.31	0.16	-2.38	49.5	-43.5	
7,613.0	5.40	122.20	7,577.9	-553.2	229.3	1.03	-0.70	-7.22	60.3	-30.4	
7,801.0	4.90	104.70	7,765.2	-559.9	244.5	0.87	-0.27	-9.31	58.7	-9.4	
7,988.0	3.00	102.10	7,951.7	-563.0	257.0	1.02	-1.02	-1.39	46.6	-6.9	



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Well:	#702H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

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)
8,175.0	2.60	116.60	8,138.5	-565.9	265.6	0.43	-0.21	7.75	34.4	-17.1
8,362.0	2.20	128.70	8,325.3	-570.1	272.2	0.34	-0.21	6.47	22.3	-23.1
8,550.0	1.90	131.90	8,513.2	-574.4	277.3	0.17	-0.16	1.70	14.2	-24.1
8,738.0	1.90	134.60	8,701.1	-578.7	281.9	0.05	0.00	1.44	6.9	-24.6
8,925.0	1.70	142.50	8,888.0	-583.0	285.8	0.17	-0.11	4.22	-2.4	-24.8
9,113.0	1.10	66.10	9,076.0	-584.5	289.1	0.95	-0.32	-40.64	21.1	-10.9
9,302.0	1.10	43.80	9,264.9	-582.5	292.0	0.23	0.00	-11.80	20.2	-2.8
9,488.0	1.00	21.40	9,450.9	-579.7	293.9	0.23	-0.05	-12.04	16.4	4.5
9,675.0	0.80	48.40	9,637.9	-577.3	295.4	0.25	-0.11	14.44	13.9	-2.8
9,863.0	1.50	347.70	9,825.9	-574.0	295.9	0.70	0.37	-32.29	6.1	9.6
10,051.0	2.00	319.60	10,013.8	-569.1	293.2	0.52	0.27	-14.95	-4.6	10.2
10,239.0	1.80	318.00	10,201.7	-564.4	289.1	0.11	-0.11	-0.85	-11.1	10.0
10,427.0	1.50	202.80	10,389.6	-564.5	286.2	1.48	-0.16	-61.28	-5.5	-17.0
10,614.0	2.10	229.50	10,576.5	-569.0	282.6	0.54	0.32	14.28	-18.2	-11.6
10,802.0	0.90	153.90	10,764.5	-572.5	280.7	1.10	-0.64	-40.21	4.4	-23.8
10,989.0	1.30	82.40	10,951.5	-573.6	283.4	0.71	0.21	-38.24	21.4	-4.8
11,176.0	1.90	57.90	11,138.4	-571.7	288.2	0.48	0.32	-13.10	16.4	3.6
11,363.0	2.20	6.40	11,325.3	-566.4	291.2	0.96	0.16	-27.54	1.9	12.7
11,551.0	2.50	346.50	11,513.1	-558.9	290.6	0.46	0.16	-10.59	-10.1	11.3
11,739.0	3.10	0.30	11,700.9	-549.8	289.7	0.48	0.32	7.34	-16.1	14.4
11,850.0	2.70	350.20	11,811.8	-544.2	289.3	0.58	-0.38	-9.10	-24.0	10.8
11,940.0	2.60	349.63	11,901.7	-540.1	288.5	0.11	-0.11	-0.64	-28.2	10.6
KOP 11940.0' MD; 11901.7' TVD; -540.1'; 288.5'; 2.60										
11,944.0	2.60	349.60	11,905.7	-539.9	288.5	0.11	-0.11	-0.66	-28.4	10.5
12,038.0	19.20	12.70	11,997.7	-522.6	291.5	17.91	17.66	24.57	-31.8	19.8
12,057.1	22.35	11.15	12,015.5	-516.0	292.9	16.72	16.48	-8.12	-35.2	18.0
FTP Crossing 12057.1' MD; 12015.5' TVD; -516.0'; 292.9'; 22.35										



Midland PVA

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Well:	#702H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

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)	
12,131.0	34.60	7.70	12,080.4	-481.3	298.5	16.72	16.58	-4.67	-49.7	11.7	
12,226.0	43.00	4.80	12,154.3	-422.2	304.8	9.04	8.84	-3.05	-66.1	3.0	
12,320.0	44.90	1.60	12,222.0	-357.1	308.4	3.11	2.02	-3.40	-68.7	-4.4	
12,414.0	53.20	2.20	12,283.6	-286.2	310.8	8.84	8.83	0.64	-58.3	-7.7	
12,508.0	66.80	4.00	12,330.5	-205.1	315.3	14.56	14.47	1.91	-45.0	-13.1	
12,602.0	74.70	2.40	12,361.4	-116.5	320.2	8.56	8.40	-1.70	-28.8	-19.7	
12,695.0	84.30	359.50	12,378.4	-25.2	321.7	10.77	10.32	-3.12	-11.8	-21.8	
12,712.0	85.40	358.70	12,379.9	-8.3	321.4	7.99	6.47	-4.71	-10.1	-21.7	
12,806.0	89.40	355.20	12,384.2	85.4	316.4	5.65	4.26	-3.72	-4.5	-17.4	
12,899.0	92.40	358.20	12,382.7	178.2	311.1	4.56	3.23	3.23	-4.5	-12.7	
12,993.0	94.00	358.70	12,377.4	272.1	308.5	1.78	1.70	0.53	-8.4	-10.9	
13,086.0	91.20	357.90	12,373.2	364.9	305.8	3.13	-3.01	-0.86	-11.2	-8.8	
13,180.0	90.60	358.80	12,371.7	458.9	303.1	1.15	-0.64	0.96	-11.3	-6.9	
13,275.0	88.00	359.30	12,372.9	553.8	301.5	2.79	-2.74	0.53	-8.7	-6.0	
13,369.0	87.60	0.30	12,376.5	647.8	301.2	1.15	-0.43	1.06	-3.6	-6.4	
13,462.0	88.10	1.30	12,380.0	740.7	302.5	1.20	0.54	1.08	1.2	-8.4	
13,555.0	89.70	3.80	12,381.8	833.6	308.6	3.19	1.72	2.69	4.4	-13.2	
13,649.0	91.00	2.40	12,381.2	927.4	311.7	2.03	1.38	-1.49	5.3	-19.0	
13,743.0	91.30	2.00	12,379.3	1,021.3	315.3	0.53	0.32	-0.43	4.8	-23.4	
13,837.0	91.30	358.00	12,377.2	1,115.3	315.3	4.25	0.00	-4.28	4.0	-24.1	
13,930.0	91.00	357.30	12,375.3	1,208.2	311.5	0.82	-0.32	-0.75	3.6	-21.0	
14,024.0	91.20	357.80	12,373.5	1,302.1	307.5	0.57	0.21	0.53	3.2	-17.7	
14,117.0	91.20	358.20	12,371.6	1,395.0	304.2	0.43	0.00	0.43	2.6	-15.1	
14,212.0	90.30	359.80	12,370.3	1,490.0	302.6	1.93	-0.95	1.68	2.8	-14.2	
14,305.0	92.80	0.80	12,367.8	1,582.9	303.0	2.90	2.69	1.08	1.7	-15.4	
14,398.0	92.00	0.90	12,363.9	1,675.9	304.4	0.87	-0.86	0.11	-0.8	-17.5	
14,492.0	93.20	1.00	12,359.7	1,769.7	306.0	1.28	1.28	0.11	-3.6	-19.7	



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #702H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3493.0usft
Site:	Diamond 31 Fed Com	MD Reference:	KB = 25 @ 3493.0usft
Well:	#702H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	EW (usft)	DLog (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
14,585.0	89.40	1.70	12,357.6	1,862.7	308.2	4.15	-4.09	0.75	-4.4	-22.6	
14,678.0	88.20	359.80	12,359.5	1,955.6	309.4	2.42	-1.29	-2.04	-1.0	-24.6	
14,772.0	88.40	358.20	12,362.3	2,049.6	307.7	1.71	0.21	-1.70	3.5	-23.6	
14,866.0	88.80	359.40	12,364.6	2,143.5	305.8	1.35	0.43	1.28	7.8	-22.4	
14,960.0	88.70	357.00	12,366.6	2,237.5	302.8	2.55	-0.11	-2.55	11.9	-20.1	
15,054.0	90.20	356.60	12,367.5	2,331.3	297.6	1.65	1.60	-0.43	14.8	-15.6	
15,147.0	90.30	357.10	12,367.1	2,424.2	292.5	0.55	0.11	0.54	16.4	-11.2	
15,240.0	90.60	358.40	12,366.4	2,517.1	288.8	1.43	0.32	1.40	17.7	-8.3	
15,334.0	89.50	358.50	12,366.3	2,611.0	286.3	1.18	-1.17	0.11	19.6	-8.4	
15,427.0	88.70	358.10	12,367.8	2,704.0	283.5	0.96	-0.86	-0.43	23.1	-4.4	
15,522.0	88.80	359.60	12,369.9	2,799.0	281.6	1.58	0.11	1.58	27.2	-3.2	
15,616.0	91.80	1.00	12,369.4	2,892.9	282.1	3.52	3.19	1.49	28.7	-4.4	
15,709.0	89.60	2.40	12,368.2	2,985.9	284.9	2.80	-2.37	1.51	29.6	-7.8	
15,803.0	88.40	3.20	12,369.9	3,079.8	289.4	1.53	-1.28	0.85	33.3	-13.1	
15,897.0	89.00	0.40	12,372.0	3,173.7	292.4	3.05	0.64	-2.98	37.4	-16.9	
15,991.0	93.00	358.30	12,370.4	3,267.6	291.3	4.81	4.26	-2.23	37.8	-16.5	
16,085.0	93.80	358.00	12,364.8	3,361.4	288.3	0.91	0.85	-0.32	34.2	-14.2	
16,179.0	91.00	357.80	12,360.8	3,455.3	284.9	2.99	-2.98	-0.21	32.3	-11.5	
16,273.0	90.20	0.20	12,359.9	3,549.2	283.2	2.69	-0.85	2.55	33.4	-10.5	
16,367.0	91.10	0.10	12,358.8	3,643.2	283.5	0.96	0.96	-0.11	34.3	-11.5	
16,460.0	90.80	2.20	12,357.3	3,736.2	285.3	2.28	-0.32	2.26	34.8	-14.0	
16,553.0	91.70	0.10	12,355.2	3,829.1	287.2	2.46	0.97	-2.26	34.8	-16.6	
16,647.0	93.70	1.80	12,350.8	3,923.0	288.8	2.79	2.13	1.81	32.4	-18.9	
16,740.0	93.70	2.40	12,344.8	4,015.8	292.2	0.64	0.00	0.65	28.4	-23.0	
16,833.0	93.70	358.60	12,338.8	4,108.5	293.0	4.08	0.00	-4.09	24.3	-24.6	
16,927.0	91.80	357.00	12,334.3	4,202.4	289.4	2.64	-2.02	-1.70	21.9	-21.7	
17,021.0	92.40	357.40	12,330.8	4,296.2	284.8	0.77	0.64	0.43	20.4	-17.8	



Midland PVA

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Site:	Diamond 31 Fed Com	MD Reference:	KB = 25 @ 3493.0usft
Well:	#702H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

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)	
17,116.0	92.50	356.40	12,326.8	4,391.0	279.6	1.06	0.11	-1.05	18.4	-13.4	
17,209.0	92.40	356.70	12,322.8	4,483.7	274.1	0.34	-0.11	0.32	16.5	-8.5	
17,302.0	93.00	356.90	12,318.4	4,576.5	268.9	0.68	0.65	0.22	14.1	-4.0	
17,395.0	93.30	358.00	12,313.3	4,669.2	264.7	1.22	0.32	1.18	11.0	-0.6	
17,489.0	92.30	359.20	12,308.7	4,763.1	262.4	1.66	-1.06	1.28	8.4	1.0	
17,583.0	92.00	359.60	12,305.2	4,857.0	261.5	0.53	-0.32	0.43	6.9	1.3	
17,677.0	91.60	359.70	12,302.2	4,951.0	260.9	0.44	-0.43	0.11	6.0	1.1	
17,770.0	91.40	359.70	12,299.8	5,043.9	260.4	0.22	-0.22	0.00	5.6	0.9	
17,864.0	90.50	358.20	12,298.2	5,137.9	258.7	1.86	-0.96	-1.60	6.0	1.9	
17,958.0	90.70	358.90	12,297.3	5,231.9	256.3	0.77	0.21	0.74	7.1	3.6	
18,051.0	92.30	1.10	12,294.8	5,324.8	256.3	2.92	1.72	2.37	6.6	2.9	
18,146.0	91.60	0.10	12,291.6	5,419.7	257.3	1.28	-0.74	-1.05	5.4	1.2	
18,239.0	90.30	0.80	12,290.1	5,512.7	258.0	1.59	-1.40	0.75	5.9	-0.3	
18,332.0	91.50	0.90	12,288.6	5,605.7	259.4	1.29	1.29	0.11	6.5	-2.3	
18,426.0	94.70	359.60	12,283.5	5,699.6	259.8	3.67	3.40	-1.38	3.4	-3.5	
18,520.0	94.20	0.20	12,276.2	5,793.3	259.6	0.83	-0.53	0.64	-1.9	-4.0	
18,614.0	93.40	0.70	12,270.0	5,887.1	260.4	1.00	-0.85	0.53	-6.1	-5.5	
18,707.0	94.80	1.00	12,263.3	5,979.8	261.8	1.54	1.51	0.32	-10.7	-7.6	
18,801.0	93.00	358.70	12,256.9	6,073.6	261.5	3.10	-1.91	-2.45	-15.1	-8.0	
18,895.0	91.70	358.40	12,253.1	6,167.5	259.1	1.42	-1.38	-0.32	-16.9	-6.4	
18,989.0	92.80	358.20	12,249.4	6,261.4	256.3	1.19	1.17	-0.21	-18.6	-4.3	
19,083.0	93.40	358.10	12,244.3	6,355.2	253.3	0.65	0.64	-0.11	-21.7	-2.0	
19,176.0	94.10	358.70	12,238.2	6,447.9	250.7	0.99	0.75	0.65	-25.7	-0.1	
19,271.0	92.00	359.50	12,233.2	6,542.8	249.2	2.37	-2.21	0.84	-28.7	0.7	
19,364.0	94.10	0.40	12,228.2	6,635.6	249.2	2.46	2.26	0.97	-31.7	0.0	
19,458.0	92.60	1.00	12,222.7	6,729.5	250.3	1.72	-1.60	0.64	-35.2	-1.8	
19,552.0	92.50	1.40	12,218.6	6,823.4	252.3	0.44	-0.11	0.43	-37.3	-4.5	



Midland PVA

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Site:	Diamond 31 Fed Com	MD Reference:	KB = 25 @ 3493.0usft
Well:	#702H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

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)	
19,646.0	91.90	2.40	12,214.9	6,917.2	255.4	1.24	-0.64	1.06	-38.9	-8.3	
19,740.0	92.70	3.30	12,211.2	7,011.0	260.1	1.28	0.85	0.96	-40.6	-13.7	
19,834.0	94.40	4.80	12,205.4	7,104.6	266.7	2.41	1.81	1.60	-44.4	-21.1	
Last MWD Survey (MD = 19834.0)											
19,897.0	94.40	4.80	12,200.5	7,167.2	271.9	0.00	0.00	0.00	-47.9	-26.9	
Projection to Bit (MD = 19897.0)											

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N-S (usft)	+E-W (usft)	
11,940.0	11,901.7	-540.1	288.5	KOP 11940.0' MD; 11901.7' TVD; -540.1'; 288.5'; 2.60
12,057.1	12,015.5	-516.0	292.9	FTP Crossing 12057.1' MD; 12015.5' TVD; -516.0'; 292.9'; 22.35
19,834.0	12,205.4	7,104.6	266.7	Last MWD Survey (MD = 19834.0)
19,897.0	12,200.5	7,167.2	271.9	Projection to Bit (MD = 19897.0)

Checked By: _____ Approved By: _____ Date: _____