



25-44005

EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Topaz 11 Fed

#601H

73817

OH

Design: OH

HOBBS OCD

APR 23 2018

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Standard Survey Report

16 March, 2018

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #601H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3345.0usft (HP 481)
Site:	Topaz 11 Fed	MD Reference:	KB = 25 @ 3345.0usft (HP 481)
Well:	#601H	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		Topaz 11 Fed			
Site Position:		Northing:	388,100.00 usft	Latitude:	32° 3' 49.953 N
From:	Map	Easting:	815,533.00 usft	Longitude:	103° 26' 53.516 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.47 °

Well	#601H					
Well Position	+N/-S	0.0 usft	Northing:	388,100.00 usft	Latitude:	32° 3' 49.953 N
	+E/-W	0.0 usft	Easting:	815,533.00 usft	Longitude:	103° 26' 53.516 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	0.0 usft	Ground Level:	3,320.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	3/21/2017	6.91	59.94	47,881.37111284

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	178.87	

Survey Program	Date 3/16/2018			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
147.0	17,347.0	Pro MWD (OH)	MWD	OWSG MWD - Standard

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
147.0	0.40	116.70	147.0	-0.2	0.5	0.2	0.27	0.27	0.00	
334.0	0.60	106.60	334.0	-0.8	2.0	0.8	0.12	0.11	-5.40	
513.0	1.10	99.90	513.0	-1.4	4.6	1.5	0.28	0.28	-3.74	
700.0	2.00	84.30	699.9	-1.4	9.6	1.5	0.53	0.48	-8.34	
874.0	3.70	70.00	873.7	0.9	17.9	-0.5	1.05	0.98	-8.22	
983.0	3.80	62.90	982.4	3.7	24.4	-3.2	0.44	0.09	-6.51	
1,162.0	2.10	61.70	1,161.2	8.0	32.6	-7.3	0.95	-0.95	-0.67	
1,349.0	0.60	174.90	1,348.2	8.6	35.7	-7.9	1.28	-0.80	60.53	
1,541.0	0.10	263.80	1,540.2	7.6	35.6	-6.9	0.32	-0.26	46.30	

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Well:	#601H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
1,731.0	0.50	195.70	1,730.2	6.8	35.2	-6.1	0.25	0.21	-35.84
1,921.0	0.80	139.90	1,920.1	5.0	35.8	-4.3	0.35	0.16	-29.37
2,112.0	0.90	111.30	2,111.1	3.4	38.1	-2.7	0.23	0.05	-14.97
2,302.0	1.00	76.00	2,301.1	3.3	41.1	-2.5	0.31	0.05	-18.58
2,492.0	1.10	86.20	2,491.1	3.8	44.5	-2.9	0.11	0.05	5.37
2,682.0	1.60	80.90	2,681.0	4.3	49.0	-3.4	0.27	0.26	-2.79
2,872.0	1.30	64.40	2,871.0	5.7	53.5	-4.6	0.27	-0.16	-8.68
3,062.0	0.80	28.80	3,060.9	7.8	56.1	-6.7	0.42	-0.26	-18.74
3,253.0	1.30	35.90	3,251.9	10.7	58.0	-9.6	0.27	0.26	3.72
3,443.0	1.10	49.80	3,441.9	13.6	60.7	-12.4	0.19	-0.11	7.32
3,633.0	1.00	28.80	3,631.8	16.3	62.9	-15.0	0.21	-0.05	-11.05
3,823.0	0.70	26.00	3,821.8	18.8	64.2	-17.5	0.16	-0.16	-1.47
4,014.0	0.50	4.80	4,012.8	20.6	64.8	-19.4	0.15	-0.10	-11.10
4,204.0	1.50	25.80	4,202.8	23.7	65.9	-22.4	0.55	0.53	11.05
4,394.0	1.30	31.60	4,392.7	27.8	68.1	-26.4	0.13	-0.11	3.05
4,584.0	1.20	20.90	4,582.7	31.5	70.0	-30.1	0.13	-0.05	-5.63
4,774.0	1.50	44.30	4,772.6	35.1	72.4	-33.7	0.33	0.16	12.32
4,964.0	1.80	65.70	4,962.5	38.1	76.9	-36.6	0.36	0.16	11.26
5,211.0	2.70	75.70	5,209.3	41.1	86.0	-39.4	0.40	0.36	4.05
5,335.0	2.40	77.60	5,333.2	42.4	91.4	-40.6	0.25	-0.24	1.53
5,525.0	3.60	354.80	5,523.0	49.2	94.7	-47.3	2.14	0.63	-43.58
5,715.0	3.60	350.60	5,712.6	61.0	93.2	-59.2	0.14	0.00	-2.21
5,905.0	3.50	352.00	5,902.3	72.7	91.5	-70.9	0.07	-0.05	0.74
6,096.0	3.50	351.00	6,092.9	84.2	89.7	-82.4	0.03	0.00	-0.52
6,286.0	3.50	351.90	6,282.6	95.7	88.0	-93.9	0.03	0.00	0.47
6,476.0	3.30	350.50	6,472.2	106.8	86.3	-105.1	0.11	-0.11	-0.74
6,666.0	3.20	348.80	6,661.9	117.4	84.4	-115.7	0.07	-0.05	-0.89
6,856.0	3.40	348.90	6,851.6	128.1	82.2	-126.5	0.11	0.11	0.05
7,046.0	3.40	350.40	7,041.3	139.2	80.2	-137.6	0.05	0.00	0.79
7,236.0	3.50	349.10	7,230.9	150.5	78.2	-148.9	0.07	0.05	-0.68
7,426.0	3.40	351.00	7,420.6	161.7	76.2	-160.2	0.08	-0.05	1.00
7,616.0	2.90	342.50	7,610.3	171.9	73.9	-170.4	0.36	-0.26	-4.47
7,805.0	2.50	347.20	7,799.1	180.5	71.5	-179.0	0.24	-0.21	2.49
7,995.0	2.10	344.60	7,988.9	187.9	69.7	-186.4	0.22	-0.21	-1.37
8,186.0	1.70	333.60	8,179.8	193.8	67.5	-192.4	0.28	-0.21	-5.76
8,376.0	1.60	272.40	8,369.8	196.4	63.6	-195.1	0.89	-0.05	-32.21
8,566.0	1.20	261.20	8,559.7	196.2	59.0	-195.0	0.25	-0.21	-5.89
8,756.0	0.80	276.40	8,749.7	196.1	55.7	-194.9	0.25	-0.21	8.00
8,946.0	0.20	18.00	8,939.7	196.5	54.5	-195.4	0.45	-0.32	53.47
9,137.0	0.40	141.60	9,130.7	196.3	55.0	-195.2	0.28	0.10	64.71
9,326.0	1.00	133.40	9,319.7	194.7	56.6	-193.5	0.32	0.32	-4.34
9,517.0	0.90	122.80	9,510.6	192.7	59.1	-191.5	0.11	-0.05	-5.55
9,706.0	1.40	129.60	9,699.6	190.4	62.1	-189.2	0.27	0.26	3.60
9,897.0	0.20	169.30	9,890.6	188.6	64.0	-187.3	0.66	-0.63	20.79

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Survey										
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10,088.0	1.90	295.60	10,081.5	189.7	61.2	-188.4	1.06	0.89	66.13	
10,278.0	3.40	296.80	10,271.3	193.6	53.3	-192.5	0.79	0.79	0.63	
10,468.0	2.60	269.20	10,461.1	196.0	44.0	-195.1	0.86	-0.42	-14.53	
10,658.0	3.90	291.90	10,650.8	198.4	33.6	-197.7	0.95	0.68	11.95	
10,848.0	5.10	298.50	10,840.2	204.8	20.2	-204.4	0.69	0.63	3.47	
11,038.0	8.60	309.30	11,028.8	217.9	1.8	-217.8	1.95	1.84	5.68	
11,229.0	12.80	324.10	11,216.5	244.1	-21.7	-244.4	2.61	2.20	7.75	
11,419.0	10.70	320.30	11,402.5	274.7	-45.3	-275.5	1.18	-1.11	-2.00	
11,609.0	15.90	349.90	11,587.5	313.9	-61.1	-315.1	4.43	2.74	15.58	
11,799.0	12.00	1.10	11,771.9	359.3	-65.3	-360.6	2.49	-2.05	5.89	
11,818.0	11.60	0.50	11,790.5	363.2	-65.3	-364.4	2.20	-2.11	-3.16	
11,907.0	9.80	354.90	11,878.0	379.7	-65.9	-380.9	2.33	-2.02	-6.29	
11,952.0	9.10	357.00	11,922.4	387.1	-66.4	-388.3	1.73	-1.56	4.67	
12,002.0	7.50	49.80	11,971.9	393.2	-64.1	-394.3	15.00	-3.20	105.60	
12,018.3	7.40	71.53	11,988.1	394.2	-62.3	-395.3	17.22	-0.61	133.48	
KOP (Topaz 11 Fed #701H)										
12,047.0	9.50	102.60	12,016.5	394.2	-58.2	-395.3	17.22	7.31	108.18	
12,097.0	8.30	144.40	12,065.9	390.4	-52.1	-391.4	12.85	-2.40	83.60	
12,142.0	12.80	145.90	12,110.2	383.6	-47.4	-384.5	10.02	10.00	3.33	
12,192.0	21.00	147.80	12,158.0	371.4	-39.5	-372.1	16.44	16.40	3.80	
12,237.0	28.10	151.20	12,198.9	355.3	-30.1	-355.8	16.08	15.78	7.56	
12,287.0	31.40	165.40	12,242.3	332.4	-21.1	-332.7	15.52	6.60	28.40	
12,332.0	33.80	172.10	12,280.3	308.6	-16.4	-308.9	9.63	5.33	14.89	
12,382.0	38.10	170.60	12,320.7	279.6	-12.0	-279.8	8.78	8.60	-3.00	
12,427.0	39.00	170.20	12,355.9	251.9	-7.3	-252.0	2.08	2.00	-0.89	
12,477.0	40.00	172.20	12,394.5	220.5	-2.5	-220.5	3.24	2.00	4.00	
12,522.0	43.80	169.70	12,428.0	190.8	2.3	-190.8	9.22	8.44	-5.56	
12,572.0	48.20	162.90	12,462.7	156.0	10.9	-155.7	13.15	8.80	-13.60	
12,574.8	48.55	162.66	12,464.6	154.0	11.5	-153.7	13.91	12.32	-8.63	
HL Crossing, MD:12574.8', TVD:12464.6', N/S:154.0', E/W:11.5', INC:48.55										
12,617.0	53.80	159.30	12,491.0	122.9	22.2	-122.5	13.91	12.45	-7.96	
12,633.7	53.69	158.40	12,500.9	110.3	27.1	-109.8	4.39	-0.64	-5.39	
FTP (Topaz 11 Fed #701H)										
12,667.0	53.50	156.60	12,520.7	85.6	37.3	-84.9	4.39	-0.58	-5.41	
12,717.0	59.00	154.70	12,548.5	47.8	54.5	-46.7	11.44	11.00	-3.80	
12,762.0	71.70	155.10	12,567.2	10.8	71.8	-9.4	28.23	28.22	0.89	
12,813.0	86.10	160.50	12,577.0	-35.4	90.6	37.2	30.08	28.24	10.59	
12,893.0	89.10	181.50	12,580.4	-113.9	103.0	115.9	26.49	3.75	26.25	
12,988.0	92.20	182.20	12,579.3	-208.9	99.9	210.8	3.35	3.26	0.74	
13,083.0	92.50	182.40	12,575.4	-303.7	96.1	305.5	0.38	0.32	0.21	
13,178.0	91.00	182.60	12,572.5	-398.6	92.0	400.3	1.59	-1.58	0.21	
13,273.0	90.50	182.10	12,571.3	-493.5	88.1	495.1	0.74	-0.53	-0.53	
13,368.0	89.00	181.80	12,571.7	-588.4	84.9	590.0	1.61	-1.58	-0.32	
13,463.0	87.70	182.50	12,574.4	-683.3	81.3	684.8	1.55	-1.37	0.74	

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

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
13,558.0	89.40	182.00	12,576.8	-778.2	77.6	779.6	1.87	1.79	-0.53
13,653.0	88.30	182.10	12,578.7	-873.1	74.2	874.4	1.16	-1.16	0.11
13,748.0	89.50	181.90	12,580.5	-968.0	70.9	969.2	1.28	1.26	-0.21
13,843.0	91.50	183.00	12,579.7	-1,062.9	66.8	1,064.1	2.40	2.11	1.16
13,938.0	90.10	180.40	12,578.4	-1,157.9	64.0	1,158.9	3.11	-1.47	-2.74
14,033.0	89.70	181.10	12,578.5	-1,252.9	62.7	1,253.9	0.85	-0.42	0.74
14,128.0	89.60	179.30	12,579.1	-1,347.9	62.4	1,348.8	1.90	-0.11	-1.89
14,223.0	90.60	178.40	12,579.0	-1,442.8	64.3	1,443.8	1.42	1.05	-0.95
14,318.0	89.30	178.40	12,579.0	-1,537.8	67.0	1,538.8	1.37	-1.37	0.00
14,380.0	90.08	178.07	12,579.4	-1,599.8	68.9	1,600.8	1.37	1.26	-0.53
TGT 1 (Topaz 11 Fed #701H)									
14,413.0	90.50	177.90	12,579.2	-1,632.8	70.0	1,633.8	1.37	1.26	-0.53
14,508.0	89.50	176.40	12,579.2	-1,727.6	74.8	1,728.8	1.90	-1.05	-1.58
14,603.0	89.60	177.00	12,580.0	-1,822.5	80.2	1,823.7	0.64	0.11	0.63
14,698.0	89.50	177.20	12,580.7	-1,917.3	85.0	1,918.7	0.24	-0.11	0.21
14,793.0	89.20	178.40	12,581.8	-2,012.3	88.7	2,013.6	1.30	-0.32	1.26
14,889.0	91.30	183.50	12,581.4	-2,108.2	87.1	2,109.5	5.74	2.19	5.31
14,984.0	89.90	183.30	12,580.4	-2,203.0	81.5	2,204.2	1.49	-1.47	-0.21
15,072.0	89.60	181.40	12,580.7	-2,291.0	77.8	2,292.1	2.19	-0.34	-2.16
15,167.0	89.00	181.50	12,581.9	-2,385.9	75.4	2,387.0	0.64	-0.63	0.11
15,262.0	86.80	177.70	12,585.4	-2,480.8	76.1	2,481.9	4.62	-2.32	-4.00
15,357.0	88.80	176.00	12,589.0	-2,575.6	81.3	2,576.7	2.76	2.11	-1.79
15,452.0	90.30	174.70	12,589.8	-2,670.3	89.0	2,671.5	2.09	1.58	-1.37
15,547.0	89.20	175.20	12,590.2	-2,764.9	97.4	2,766.3	1.27	-1.16	0.53
15,642.0	86.20	173.50	12,594.0	-2,859.4	106.7	2,860.9	3.63	-3.16	-1.79
15,737.0	88.40	170.60	12,598.5	-2,953.3	119.8	2,955.1	3.83	2.32	-3.05
15,859.0	91.70	176.20	12,598.4	-3,074.5	133.9	3,076.5	5.33	2.70	4.59
15,954.0	93.00	178.50	12,594.5	-3,169.3	138.3	3,171.4	2.78	1.37	2.42
16,049.0	92.00	183.10	12,590.3	-3,264.1	136.9	3,266.2	4.95	-1.05	4.84
16,089.5	91.37	183.65	12,589.2	-3,304.5	134.5	3,306.6	2.07	-1.56	1.35
TGT 2 (Topaz 11 Fed #701H)									
16,145.0	90.50	184.40	12,588.2	-3,359.9	130.6	3,361.8	2.07	-1.56	1.35
16,239.0	90.20	183.50	12,587.7	-3,453.7	124.2	3,455.5	1.01	-0.32	-0.96
16,334.0	89.50	183.30	12,587.9	-3,548.5	118.5	3,550.2	0.77	-0.74	-0.21
16,430.0	89.10	182.40	12,589.1	-3,644.4	113.8	3,645.9	1.03	-0.42	-0.94
16,525.0	89.90	182.70	12,589.9	-3,739.3	109.5	3,740.7	0.90	0.84	0.32
16,620.0	87.90	181.80	12,591.7	-3,834.2	105.8	3,835.5	2.31	-2.11	-0.95
16,714.0	89.10	183.50	12,594.2	-3,928.1	101.5	3,929.3	2.21	1.28	1.81
16,809.0	90.20	184.30	12,594.8	-4,022.8	95.0	4,023.9	1.43	1.16	0.84
16,905.0	89.60	184.20	12,595.0	-4,118.6	87.9	4,119.5	0.63	-0.63	-0.10
17,000.0	88.80	181.90	12,596.3	-4,213.4	82.8	4,214.2	2.56	-0.84	-2.42
17,095.0	88.00	181.10	12,598.9	-4,308.4	80.4	4,309.1	1.19	-0.84	-0.84
17,190.0	88.30	180.50	12,602.0	-4,403.3	79.0	4,404.0	0.71	0.32	-0.63

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #601H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3345.0usft (HP 481)
Site:	Topaz 11 Fed	MD Reference:	KB = 25 @ 3345.0usft (HP 481)
Well:	#601H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
17,253.8	89.02	180.57	12,603.5	-4,467.1	78.4	4,467.7	1.14	1.13	0.10
HL Crossing, MD:17253.8', TVD:12603.5', N/S:-4467.1', E/W:78.4', INC:89.02									
17,287.0	89.40	180.60	12,603.9	-4,500.3	78.1	4,500.9	1.14	1.13	0.10
Last MWD Survey									
17,347.0	89.40	180.60	12,604.6	-4,560.3	77.5	4,560.9	0.00	0.00	0.00
Projection To Bit - PBHL (Topaz 11 Fed #701H)									

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
12,574.8	12,464.6	154.0	11.5	HL Crossing, MD:12574.8', TVD:12464.6', N/S:154.0', E/W:11.5', INC:48.55
17,253.8	12,603.5	-4,467.1	78.4	HL Crossing, MD:17253.8', TVD:12603.5', N/S:-4467.1', E/W:78.4', INC:89.02
17,287.0	12,603.9	-4,500.3	78.1	Last MWD Survey
17,347.0	12,604.6	-4,560.3	77.5	Projection To Bit

Checked By: _____ Approved By: _____ Date: _____



Lea County, NM (NAD 83 NME)

Topaz 11 Fed #601H

HP 481

Plan #4

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: #601H

Ground Level: 3320.0
KB = 25 @ 3345.0usft (HP 481)
Northing 388100.00 Easting 815533.00 Longitude 103° 28' 53.516 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	9500.0	0.00	0.00	9500.0	0.0	0.0	0.00	0.00	0.0	
3	10059.9	11.20	4.62	10056.4	54.4	4.4	2.00	4.62	-54.3	
4	12015.1	11.20	4.62	11974.3	432.9	35.0	0.00	0.00	-432.1	
5	12858.0	90.00	179.49	12544.0	-35.5	49.3	12.00	174.76	36.5	
6	17389.7	90.00	179.49	12544.0	-4567.0	90.0	0.00	0.00	4567.9	PBHL (Topaz 11 Fed #701H)

To convert a Magnetic Direction to a Grid Direction, Add 6.44°
To convert a Magnetic Direction to a True Direction, Add 6.91° East
To convert a True Direction to a Grid Direction, Subtract 0.47°



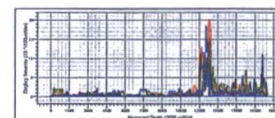
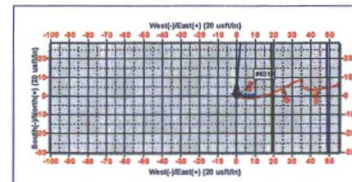
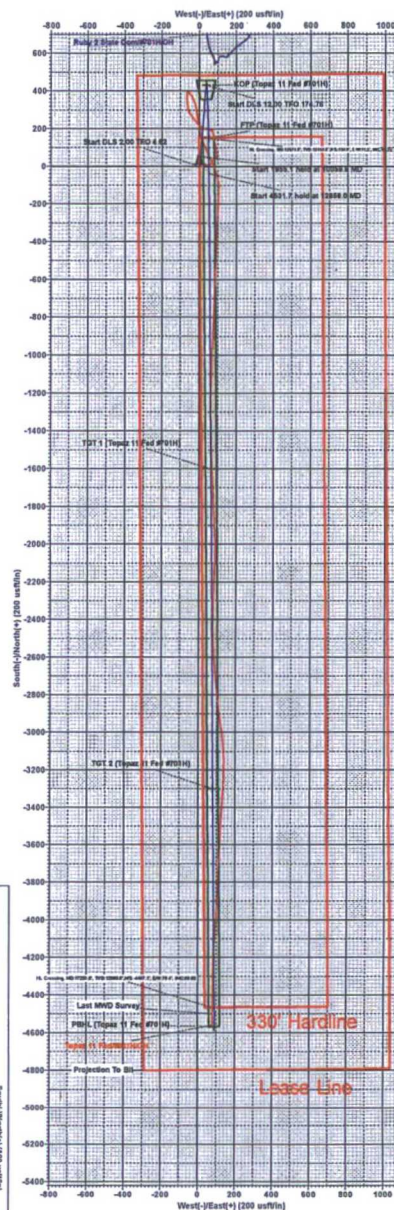
Azimuths to Grid North
True North: -0.47°
Magnetic North: 6.44°
Magnetic Field
Strength: 47561.4usT
Dip Angle: 59.94°
Date: 3/21/2017
Model: IGRF2015

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
KOP (Topaz 11 Fed #701H)	11974.3	432.9	35.0	388232.85	815568.00
FTP (Topaz 11 Fed #701H)	12544.0	153.0	48.0	388253.00	815581.00
PBHL (Topaz 11 Fed #701H)	12544.0	-4567.0	90.0	388533.00	815623.00
TOT 1 (Topaz 11 Fed #701H)	12544.0	-1600.0	63.9	388600.00	815596.80
TOT 2 (Topaz 11 Fed #701H)	12544.0	-3299.9	78.8	384800.10	815611.80



Lea County, NM (NAD 83 NME)
Topaz 11 Fed #601H
HP 481
Plan #4