

HOBBS OCD
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EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Condor 32 State

#708H

ST

Design: ST

PVA Report

08 December, 2017



PVA Report

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #708H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 3346.0usft (HP 620)
Site:	Condor 32 State	MD Reference:	KB = 25' @ 3346.0usft (HP 620)
Well:	#708H	North Reference:	Grid
Wellbore:	ST	Survey Calculation Method:	Minimum Curvature
Design:	ST	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	Condor 32 State		
Site Position:		Northing:	398,890.00 usft
From:	Map	Easting:	803,604.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 5' 37.669 N
		Longitude:	103° 29' 11.148 W
		Grid Convergence:	0.45 °

Well	#708H		
Well Position	+N/-S	0.0 usft	Northing:
	+E/-W	0.0 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Latitude:	32° 5' 37.083 N
		Longitude:	103° 29' 12.246 W
		Ground Level:	3,321.0 usft

Wellbore	ST		
Magnetics	Model Name	Sample Date	Declination (°)
	IGRF2015	12/1/2017	6.86
			Dip Angle (°)
			59.95
			Field Strength (nT)
			47,823.26904595

Design	ST		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	12,335.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)
	0.0	0.0	0.0
			Direction (°)
			180.27



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Local Co-ordinate Reference: Well #708H
TVD Reference: KB = 25' @ 3346.0usft (HP 620)
MD Reference: KB = 25' @ 3346.0usft (HP 620)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.14

Survey Program Date 12/8/2017

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
142.0	875.0	Olebrook MWD (OH)	MWD	MWD - Standard
1,066.0	12,335.0	Intrepid MWD (OH)	MWD	MWD - Standard
12,436.0	17,673.0	Intrepid MWD #2 (ST)	MWD	MWD - Standard

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		
142.0	0.44	345.22	142.0	0.5	-0.1	0.31	0.31	0.00		
266.0	0.26	13.35	266.0	1.3	-0.2	0.20	-0.15	22.69		
391.0	0.62	295.57	391.0	1.8	-0.7	0.50	0.29	-62.22		
516.0	0.26	331.86	516.0	2.4	-1.5	0.35	-0.29	29.03		
675.0	0.79	213.65	675.0	1.8	-2.3	0.59	0.33	-74.35		
832.0	0.70	128.49	832.0	0.3	-2.1	0.64	-0.06	-54.24		
875.0	0.44	86.30	875.0	0.1	-1.7	1.11	-0.60	-98.12		
1,066.0	0.66	80.33	1,066.0	0.4	0.1	0.12	0.12	-3.13		
1,251.0	0.79	110.82	1,251.0	0.1	2.3	0.22	0.07	16.48		
1,435.0	0.97	117.94	1,434.9	-1.1	4.9	0.11	0.10	3.87		
1,620.0	0.97	129.28	1,619.9	-2.8	7.5	0.10	0.00	6.13		
1,808.0	0.48	203.20	1,807.9	-4.6	8.4	0.51	-0.26	39.32		
1,997.0	0.92	267.53	1,996.9	-5.3	6.6	0.44	0.23	34.04		
2,184.0	1.10	276.50	2,183.8	-5.2	3.3	0.13	0.10	4.80		
2,372.0	1.19	272.02	2,371.8	-4.9	-0.5	0.07	0.05	-2.38		
2,561.0	1.10	268.15	2,560.8	-4.9	-4.2	0.06	-0.05	-2.05		
2,749.0	0.97	278.17	2,748.7	-4.8	-7.6	0.12	-0.07	5.33		
2,937.0	0.62	304.01	2,936.7	-4.0	-10.0	0.26	-0.19	13.74		
3,123.0	0.92	10.89	3,122.7	-1.9	-10.6	0.48	0.16	35.96		



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Wellbore:	ST	Survey Calculation Method:	Minimum Curvature
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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)
3,311.0	2.33	41.74	3,310.6	2.4	-7.8	0.86	0.75	16.41		
3,498.0	0.62	112.76	3,497.6	4.8	-4.3	1.18	-0.91	37.98		
3,685.0	0.57	241.36	3,684.6	4.0	-4.2	0.57	-0.03	68.77		
3,873.0	0.84	251.98	3,872.6	3.1	-6.3	0.16	0.14	5.65		
4,060.0	0.84	25.22	4,059.5	4.0	-7.0	0.82	0.00	71.25		
4,248.0	1.32	330.20	4,247.5	7.1	-7.5	0.58	0.26	-29.27		
4,435.0	1.93	327.74	4,434.4	11.6	-10.3	0.33	0.33	-1.32		
4,623.0	1.23	41.13	4,622.4	15.8	-10.6	1.05	-0.37	39.04		
4,810.0	1.10	58.53	4,809.3	18.3	-7.8	0.20	-0.07	9.30		
4,998.0	3.16	103.62	4,997.2	18.0	-1.2	1.33	1.10	23.98		
5,039.0	3.34	104.23	5,038.2	17.4	1.1	0.45	0.44	1.49		
5,181.0	2.02	101.42	5,180.0	15.9	7.5	0.93	-0.93	-1.98		
5,369.0	1.93	353.05	5,367.9	18.4	10.4	1.70	-0.05	-57.64		
5,556.0	4.09	343.47	5,554.7	27.9	8.1	1.18	1.16	-5.12		
5,743.0	4.88	341.45	5,741.1	41.8	3.7	0.43	0.42	-1.08		
5,931.0	4.84	335.30	5,928.4	56.6	-2.2	0.28	-0.02	-3.27		
6,119.0	4.70	329.67	6,115.8	70.5	-9.4	0.26	-0.07	-2.99		
6,306.0	4.18	324.84	6,302.2	82.7	-17.2	0.34	-0.28	-2.58		
6,494.0	4.40	334.07	6,489.7	94.8	-24.3	0.38	0.12	4.91		
6,682.0	4.40	334.24	6,677.1	107.7	-30.6	0.01	0.00	0.09		
6,870.0	4.75	336.53	6,864.5	121.4	-36.8	0.21	0.19	1.22		
7,057.0	4.44	335.38	7,050.9	135.1	-42.9	0.17	-0.17	-0.61		
7,245.0	3.96	340.04	7,238.4	147.8	-48.1	0.31	-0.26	2.48		
7,433.0	3.16	335.12	7,426.1	158.6	-52.5	0.46	-0.43	-2.62		
7,621.0	2.46	331.87	7,613.8	166.8	-56.6	0.38	-0.37	-1.73		
7,808.0	0.88	29.70	7,800.8	171.6	-57.8	1.14	-0.84	30.93		
7,996.0	0.53	269.29	7,988.7	172.9	-58.0	0.66	-0.19	-64.05		



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Wellbore:	ST	Survey Calculation Method:	Minimum Curvature
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Survey										
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8,184.0	0.97	242.22	8,176.7	172.1	-60.2	0.29	0.23	-14.40		
8,368.0	0.79	243.98	8,360.7	170.8	-62.8	0.10	-0.10	0.96		
8,555.0	0.84	222.71	8,547.7	169.3	-64.8	0.16	0.03	-11.37		
8,743.0	0.97	213.48	8,735.7	166.9	-66.7	0.10	0.07	-4.91		
8,930.0	0.88	209.44	8,922.6	164.3	-68.2	0.06	-0.05	-2.16		
9,118.0	1.05	280.63	9,110.6	163.4	-70.6	0.60	0.09	37.87		
9,306.0	0.53	279.40	9,298.6	163.9	-73.2	0.28	-0.28	-0.65		
9,493.0	0.66	279.31	9,485.6	164.2	-75.1	0.07	0.07	-0.05		
9,681.0	0.97	307.17	9,673.6	165.3	-77.4	0.26	0.16	14.82		
9,869.0	0.79	278.43	9,861.5	166.5	-80.0	0.25	-0.10	-15.29		
10,055.0	0.84	236.33	10,047.5	165.9	-82.4	0.32	0.03	-22.63		
10,242.0	1.14	231.15	10,234.5	164.0	-85.0	0.17	0.16	-2.77		
10,430.0	1.27	185.27	10,422.5	160.7	-86.6	0.50	0.07	-24.40		
10,618.0	1.36	164.00	10,610.4	156.5	-86.2	0.26	0.05	-11.31		
10,806.0	1.85	166.81	10,798.3	151.4	-84.9	0.26	0.26	1.49		
10,994.0	1.27	164.17	10,986.3	146.5	-83.6	0.31	-0.31	-1.40		
11,181.0	0.66	177.80	11,173.2	143.4	-83.0	0.35	-0.33	7.29		
11,369.0	0.62	252.77	11,361.2	142.0	-84.0	0.41	-0.02	39.88		
11,557.0	0.57	216.20	11,549.2	140.9	-85.5	0.20	-0.03	-19.45		
11,745.0	1.10	258.83	11,737.2	139.8	-87.8	0.42	0.28	22.68		
11,882.0	1.49	251.01	11,874.2	139.0	-90.8	0.31	0.28	-5.71		
11,960.0	1.41	233.61	11,952.1	138.1	-92.5	0.57	-0.10	-22.31		
12,148.0	0.53	227.81	12,140.1	136.1	-95.0	0.47	-0.47	-3.09		
12,335.0	1.01	213.04	12,327.1	134.2	-96.6	0.28	0.26	-7.90		
12,436.0	5.14	184.74	12,427.9	128.9	-97.4	4.24	4.09	-28.02		
12,516.0	8.66	182.37	12,507.3	119.3	-98.0	4.41	4.40	-2.96		
12,562.0	13.98	183.95	12,552.4	110.3	-98.5	11.58	11.57	3.43		



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Wellbore:	ST	Survey Calculation Method:	Minimum Curvature
Design:	ST	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)
12,610.0	16.75	188.61	12,598.7	97.7	-99.9	6.31	5.77	9.71		
12,649.0	21.85	185.88	12,635.5	84.9	-101.5	13.28	13.08	-7.00		
12,703.0	23.87	187.03	12,685.3	64.1	-103.9	3.83	3.74	2.13		
12,750.0	27.52	186.76	12,727.6	43.8	-106.3	7.77	7.77	-0.57		
12,797.0	35.16	179.12	12,767.7	19.5	-107.4	18.29	16.26	-16.26		
12,829.0	42.42	174.90	12,792.7	-0.5	-106.3	24.13	22.69	-13.19		
12,860.0	50.52	173.67	12,814.0	-22.8	-104.0	26.29	26.13	-3.97		
12,891.0	57.63	173.58	12,832.2	-47.8	-101.3	22.94	22.94	-0.29		
12,911.0	61.49	174.72	12,842.3	-64.9	-99.5	19.92	19.30	5.70		
12,935.0	63.16	175.51	12,853.5	-86.1	-97.7	7.54	6.96	3.29		
12,963.0	66.36	177.82	12,865.4	-111.4	-96.2	13.65	11.45	8.23		
FTP Crossing, MD:12963.0', TVD:12865.4', N/S:-111.4', E/W:-96.2', INC:66.36										
12,984.0	68.79	179.47	12,873.4	-130.8	-95.8	13.65	11.55	7.88		
13,016.0	74.86	177.62	12,883.4	-161.2	-95.0	19.75	18.97	-5.78		
13,074.0	86.73	174.02	12,892.7	-218.2	-90.8	21.36	20.47	-6.21		
13,168.0	86.99	173.23	12,897.8	-311.4	-80.4	0.88	0.28	-0.84		
13,262.0	88.26	174.72	12,901.7	-404.8	-70.5	2.08	1.35	1.59		
13,356.0	86.86	171.20	12,905.7	-498.0	-59.0	4.03	-1.49	-3.74		
13,465.0	89.32	174.54	12,909.3	-606.1	-45.5	3.80	2.26	3.06		
13,543.0	90.20	177.62	12,909.7	-683.9	-40.2	4.11	1.13	3.95		
13,637.0	91.30	181.75	12,908.4	-777.9	-39.6	4.55	1.17	4.39		
13,731.0	91.74	182.10	12,905.9	-871.8	-42.8	0.60	0.47	0.37		
13,825.0	90.68	180.96	12,904.0	-965.7	-45.3	1.66	-1.13	-1.21		
13,918.0	89.14	180.35	12,904.1	-1,058.7	-46.4	1.78	-1.66	-0.66		
14,012.0	88.13	179.29	12,906.3	-1,152.7	-46.1	1.56	-1.07	-1.13		
14,106.0	88.40	178.94	12,909.2	-1,246.6	-44.6	0.47	0.29	-0.37		
14,200.0	89.36	180.52	12,911.0	-1,340.6	-44.2	1.97	1.02	1.68		



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14,294.0	90.20	181.05	12,911.4	-1,434.6	-45.5	1.06	0.89	0.56		
14,387.0	90.29	180.61	12,911.0	-1,527.6	-46.8	0.48	0.10	-0.47		
14,481.0	90.24	180.52	12,910.5	-1,621.6	-47.7	0.11	-0.05	-0.10		
14,575.0	91.47	180.43	12,909.1	-1,715.6	-48.5	1.31	1.31	-0.10		
14,669.0	90.64	179.99	12,907.4	-1,809.5	-48.9	1.00	-0.88	-0.47		
14,763.0	89.01	179.12	12,907.7	-1,903.5	-48.1	1.97	-1.73	-0.93		
14,857.0	89.05	178.50	12,909.3	-1,997.5	-46.2	0.66	0.04	-0.66		
14,950.0	87.47	175.78	12,912.1	-2,090.3	-41.5	3.38	-1.70	-2.92		
15,044.0	88.18	177.36	12,915.7	-2,184.1	-35.9	1.84	0.76	1.68		
15,138.0	89.85	178.68	12,917.3	-2,278.0	-32.7	2.26	1.78	1.40		
15,232.0	89.93	178.50	12,917.5	-2,372.0	-30.4	0.21	0.09	-0.19		
15,326.0	90.59	179.12	12,917.1	-2,466.0	-28.4	0.96	0.70	0.66		
15,420.0	91.16	181.00	12,915.6	-2,560.0	-28.5	2.09	0.61	2.00		
15,514.0	88.75	181.84	12,915.7	-2,653.9	-30.8	2.72	-2.56	0.89		
15,608.0	88.57	181.75	12,917.9	-2,747.8	-33.8	0.21	-0.19	-0.10		
15,702.0	89.98	182.02	12,919.1	-2,841.8	-36.9	1.53	1.50	0.29		
15,795.0	90.33	182.28	12,918.8	-2,934.7	-40.4	0.47	0.38	0.28		
15,888.0	88.44	181.93	12,919.8	-3,027.6	-43.8	2.07	-2.03	-0.38		
15,983.0	89.63	182.72	12,921.4	-3,122.6	-47.6	1.50	1.25	0.83		
16,076.0	88.84	182.63	12,922.7	-3,215.4	-52.0	0.85	-0.85	-0.10		
16,170.0	89.10	182.45	12,924.4	-3,309.3	-56.1	0.34	0.28	-0.19		
16,271.0	88.09	180.35	12,926.8	-3,410.3	-58.6	2.31	-1.00	-2.08		
16,365.0	87.47	177.45	12,930.5	-3,504.2	-56.8	3.15	-0.66	-3.09		
16,459.0	86.46	175.69	12,935.5	-3,597.9	-51.2	2.16	-1.07	-1.87		
16,553.0	89.67	177.45	12,938.6	-3,691.6	-45.6	3.89	3.41	1.87		
16,646.0	87.65	176.48	12,940.8	-3,784.5	-40.6	2.41	-2.17	-1.04		
16,740.0	85.80	174.63	12,946.2	-3,878.0	-33.4	2.78	-1.97	-1.97		



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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)
16,834.0	88.84	177.27	12,950.6	-3,971.7	-26.7	4.28	3.23	2.81		
16,928.0	90.20	178.06	12,951.4	-4,065.6	-22.9	1.67	1.45	0.84		
17,022.0	89.71	177.27	12,951.4	-4,159.5	-19.1	0.99	-0.52	-0.84		
17,116.0	90.55	176.92	12,951.2	-4,253.4	-14.3	0.97	0.89	-0.37		
17,209.0	87.50	175.25	12,952.8	-4,346.1	-8.0	3.74	-3.28	-1.80		
17,303.0	90.55	176.74	12,954.4	-4,439.9	-1.4	3.61	3.24	1.59		
17,397.0	91.52	177.27	12,952.7	-4,533.7	3.5	1.18	1.03	0.56		
17,491.0	92.44	178.85	12,949.5	-4,627.6	6.7	1.94	0.98	1.68		
17,585.0	90.20	176.48	12,947.3	-4,721.5	10.5	3.47	-2.38	-2.52		
Final MWD Survey (MD= 17585.0')										
17,590.5	90.20	176.48	12,947.3	-4,727.0	10.8	0.00	0.00	0.00		
LTP Crossing, MD:17590.5', TVD:12947.3', N/S:-4727.0', E/W:10.8', INC:90.20										
17,673.0	90.20	176.48	12,947.0	-4,809.3	15.9	0.00	0.00	0.00		
Final Bit Projection (MD= 17673.0')										

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
12,963.0	12,865.4	-111.4	-96.2	FTP Crossing, MD:12963.0', TVD:12865.4', N/S:-111.4', E/W:-96.2', INC:66.36
17,585.0	12,947.3	-4,721.5	10.5	Final MWD Survey (MD= 17585.0')
17,590.5	12,947.3	-4,727.0	10.8	LTP Crossing, MD:17590.5', TVD:12947.3', N/S:-4727.0', E/W:10.8', INC:90.20
17,673.0	12,947.0	-4,809.3	15.9	Final Bit Projection (MD= 17673.0')

Checked By: _____ Approved By: _____ Date: _____



Lea County, NM (NAD 83 NME)

Condor 32 State #708H

HP 620

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: #708H

KB = 25' @ 3346.0usft (HP 620) 3321.0
Northing 398330.00 Easting 803510.00 Latitude 32° 5' 37.083 N Longitude 103° 29' 12.246 W

Azimuths to Grid North
True North: -0.45°
Magnetic North: 6.42°
Magnetic Field
Strength: 47835.9nT
Dip Angle: 59.93°
Date: 10/17/2017
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 6.42°
To convert a Magnetic Direction to a True Direction, Add 6.87° East
To convert a True Direction to a Grid Direction, Subtract 0.45°

SECTION DETAILS

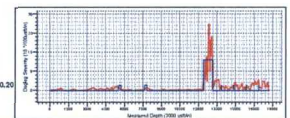
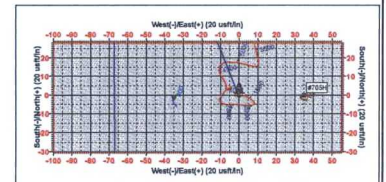
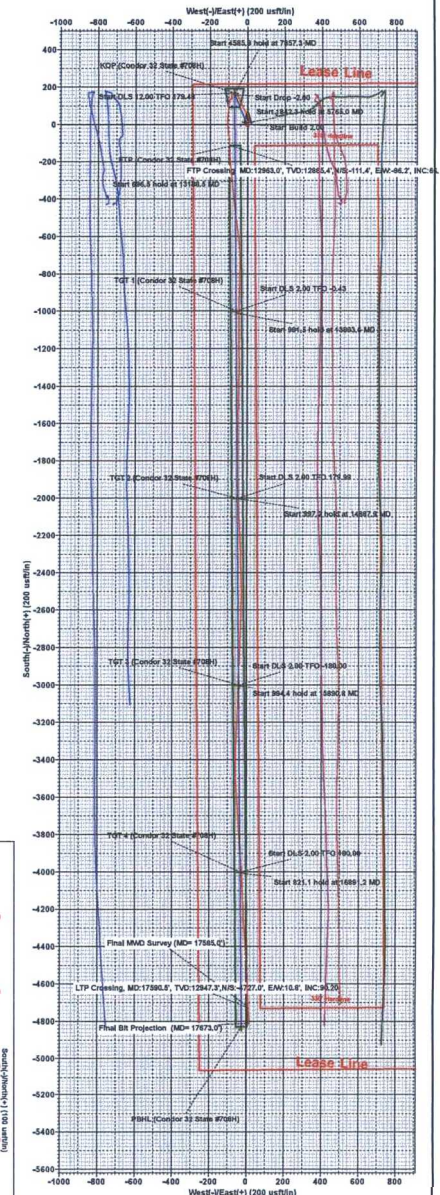
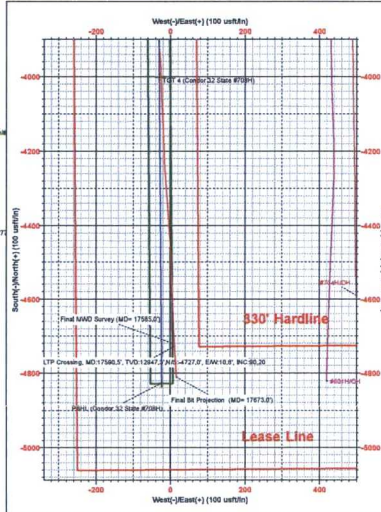
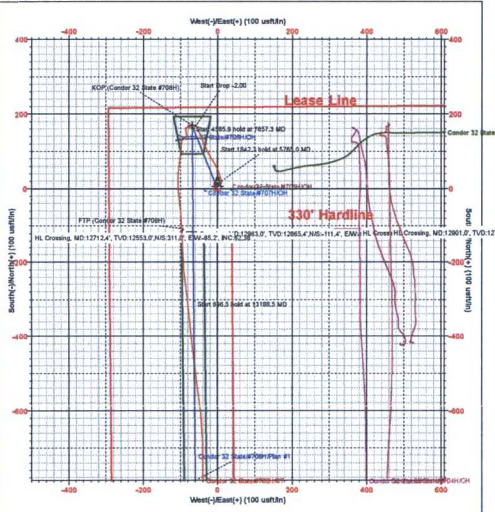
Sec	MD	Inc	Azi	TVD	+N/S	+E/W	Dleg	TFace	Vsect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	5515.0	0.00	0.00	5515.0	0.0	0.0	0.00	0.00	0.0	
3	5765.0	5.00	338.00	5764.7	10.1	-4.1	2.00	338.00	-10.1	
4	7607.3	5.00	338.00	7600.0	159.0	-64.2	0.00	0.00	-158.7	
5	7857.3	0.00	0.00	7849.7	169.1	-68.3	2.00	180.00	-168.8	
6	12443.2	0.00	0.00	12435.6	169.1	-68.3	0.00	0.00	-168.8	
7	13188.5	89.43	179.48	12913.0	-303.6	-64.0	12.00	179.48	303.9	
8	13885.0	89.43	179.48	12920.0	-1000.0	-57.7	0.00	0.00	1000.3	
9	13893.6	89.60	179.48	12920.1	-1008.6	-57.7	2.00	-0.43	1008.9	
10	14885.0	89.60	179.48	12927.0	-2000.0	-48.7	0.00	0.00	2000.2	
11	14887.9	89.54	179.48	12927.0	-2002.9	-48.6	2.00	179.99	2003.1	
12	15885.1	89.54	179.48	12935.0	-3000.0	-39.6	0.00	0.00	3000.2	
13	15890.8	89.43	179.48	12935.1	-3005.7	-39.5	2.00	-180.00	3005.9	
14	16885.2	89.43	179.48	12945.0	-4000.0	-30.5	0.00	0.00	4000.1	
15	16891.2	89.31	179.48	12945.1	-4006.0	-30.5	2.00	180.00	4006.1	
16	17712.3	89.31	179.48	12955.0	-4827.0	-23.0	0.00	0.00	4827.1	

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/S	+E/W	Northing	Easting
KOP (Condor 32 State #708H)	12435.6	169.1	-68.3	398999.09	803441.68
FTP (Condor 32 State #708H)	12913.0	-111.0	-66.0	398719.00	803444.00
TGT 1 (Condor 32 State #708H)	12920.0	-1000.0	-57.7	397830.00	803452.27
TGT 2 (Condor 32 State #708H)	12927.0	-2000.0	-48.7	396830.00	803461.34
TGT 3 (Condor 32 State #708H)	12935.0	-3000.0	-39.6	395830.00	803470.42
TGT 4 (Condor 32 State #708H)	12945.0	-4000.0	-30.5	394830.00	803479.49
PBHL (Condor 32 State #708H)	12955.0	-4827.0	-23.0	394003.00	803487.00



Lea County, NM (NAD 83 NME)
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HP 620
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10/17/2017
eog resources