

HOBBS OCD
MAR 12 2018
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EOG Resources - Midland

Lea County, NM (NAD 83 NME)
Condor 32 State
#706H
OH

Design: OH

PVA Report

08 January, 2018

PVA Report

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #706H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 3340.0usft
Site:	Condor 32 State	MD Reference:	KB = 25' @ 3340.0usft
Well:	#706H	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		Condor 32 State				
Site Position:		Northing:	398,890.00	usft	Latitude:	32° 5' 37.669 N
From:	Map	Easting:	803,604.00	usft	Longitude:	103° 29' 11.148 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16	"	Grid Convergence:	0.45 °

Well	#706H					
Well Position	+N/-S	0.0 usft	Northing:	398,403.00 usft	Latitude:	32° 5' 32.910 N
	+E/-W	0.0 usft	Easting:	802,825.00 usft	Longitude:	103° 29' 20.247 W
Position Uncertainty	0.0 usft		Wellhead Elevation:	usft	Ground Level:	3,315.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	10/17/2017	6.87	59.95	47,835.05657059

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	178.06	

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Survey Program		Date	1/8/2018		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
314.0	876.0	Invictus MWD (OH)	MWD	MWD - Standard	
960.0	17,614.0	Intrepid MWD (OH)	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	0.0	0.0
314.0	1.10	86.44	314.0	0.2	3.0	0.35	0.35	0.00	-3.0	0.0
346.0	1.10	60.44	346.0	0.4	3.6	1.55	0.00	-81.25	-3.3	-1.5
377.0	0.50	102.44	377.0	0.5	4.0	2.59	-1.94	135.48	-3.8	1.3
408.0	1.30	37.44	408.0	0.7	4.3	3.80	2.58	-209.68	-3.2	-3.0
440.0	0.60	109.44	440.0	1.0	4.7	3.91	-2.19	225.00	-4.1	2.5
471.0	1.30	46.44	471.0	1.1	5.1	3.74	2.26	-203.23	-4.5	-2.7
503.0	1.00	53.44	503.0	1.6	5.6	1.03	-0.94	21.87	-5.4	-2.1
597.0	0.30	155.44	596.9	1.8	6.4	1.17	-0.74	108.51	-1.0	6.5
628.0	0.70	55.44	627.9	1.9	6.5	2.61	1.29	-322.58	-6.4	-2.2
660.0	0.90	116.44	659.9	1.9	6.9	2.59	0.62	190.62	-5.4	4.8
691.0	1.10	71.44	690.9	1.8	7.4	2.54	0.65	-145.16	-7.6	-0.6
722.0	0.70	122.44	721.9	1.8	7.9	2.76	-1.29	164.52	-5.7	5.8
754.0	0.50	115.44	753.9	1.7	8.2	0.66	-0.62	-21.87	-6.7	5.0
784.0	1.20	96.44	783.9	1.6	8.6	2.48	2.33	-63.33	-8.4	2.5
876.0	0.70	43.44	875.9	1.9	9.9	1.04	-0.54	-57.61	-8.2	-5.9
960.0	0.80	75.80	959.9	2.4	10.9	0.51	0.12	38.52	-11.1	-0.3
1,145.0	0.50	37.50	1,144.9	3.4	12.6	0.28	-0.16	-20.70	-10.3	-8.0
1,330.0	0.60	65.80	1,329.9	4.4	14.0	0.15	0.05	15.30	-14.5	-1.7
1,516.0	0.50	101.00	1,515.9	4.6	15.7	0.19	-0.05	18.92	-14.5	7.5
1,702.0	0.20	81.30	1,701.9	4.5	16.8	0.17	-0.16	-10.59	-17.3	1.9

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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)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
1,890.0	0.20	99.00	1,889.9	4.5	17.4	0.03	0.00	9.41	-16.5	7.2	
2,077.0	1.50	349.00	2,076.9	6.9	17.3	0.84	0.70	-58.82	-3.5	-18.3	
2,266.0	3.50	352.30	2,265.7	15.0	16.0	1.06	1.06	1.75	-12.7	-17.9	
2,453.0	4.30	2.90	2,452.2	27.7	15.6	0.57	0.43	5.67	-24.4	-13.7	
2,641.0	4.00	11.70	2,639.7	41.1	17.3	0.37	-0.16	4.68	-24.9	-9.2	
2,827.0	3.40	18.30	2,825.4	52.7	20.4	0.40	-0.32	3.55	-21.7	-7.9	
3,014.0	3.40	31.10	3,012.0	62.7	25.0	0.41	0.00	6.84	-18.7	-7.5	
3,202.0	4.00	41.10	3,199.6	72.5	32.2	0.47	0.32	5.32	-17.7	-11.6	
3,389.0	4.40	48.20	3,386.1	82.2	41.8	0.35	0.21	3.80	-19.8	-18.6	
3,576.0	2.90	34.60	3,572.8	90.8	49.8	0.92	-0.80	-7.27	-11.8	-31.2	
3,764.0	2.50	20.30	3,760.6	98.6	53.9	0.42	-0.21	-7.61	3.7	-37.3	
3,951.0	3.60	22.10	3,947.3	107.9	57.6	0.59	0.59	0.96	8.6	-40.7	
4,138.0	3.90	3.70	4,133.9	119.6	60.2	0.66	0.16	-9.84	25.2	-36.0	
4,325.0	4.30	1.00	4,320.4	133.0	60.7	0.24	0.21	-1.44	29.6	-32.5	
4,513.0	5.00	18.10	4,507.8	147.8	63.4	0.82	0.37	9.10	20.1	-40.0	
4,700.0	3.70	22.90	4,694.3	161.1	68.3	0.72	-0.70	2.57	18.4	-44.5	
4,888.0	2.90	40.80	4,882.0	170.3	73.7	0.69	-0.43	9.52	7.4	-54.5	
5,074.0	2.40	56.60	5,067.8	176.0	80.1	0.47	-0.27	8.49	-4.9	-65.0	
5,129.0	2.10	59.20	5,122.7	177.2	81.9	0.58	-0.55	4.73	-6.5	-68.9	
5,242.0	1.90	55.40	5,235.6	179.3	85.2	0.21	-0.18	-3.36	4.3	-79.7	
5,429.0	4.60	19.50	5,422.3	188.1	90.3	1.74	1.44	-19.20	66.0	-68.0	
5,618.0	10.20	9.40	5,609.7	211.8	95.5	3.03	2.96	-5.34	79.0	-56.5	
5,804.0	12.70	6.30	5,792.0	248.4	100.5	1.38	1.34	-1.67	70.6	-51.5	
5,992.0	14.00	6.90	5,974.9	291.5	105.5	0.70	0.69	0.32	52.4	-50.7	
6,180.0	13.40	6.60	6,157.6	335.7	110.7	0.32	-0.32	-0.16	34.0	-48.9	
6,366.0	11.90	4.00	6,339.0	376.3	114.5	0.86	-0.81	-1.40	21.0	-45.5	
6,553.0	10.50	2.50	6,522.5	412.5	116.6	0.76	-0.75	-0.80	11.6	-42.1	

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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)	
6,740.0	8.60	359.00	6,706.9	443.5	117.1	1.06	-1.02	-1.87	8.6	-37.4	
6,927.0	8.70	0.30	6,891.7	471.7	116.9	0.12	0.05	0.70	5.3	-32.8	
7,115.0	8.50	6.80	7,077.6	499.7	118.7	0.53	-0.11	3.46	-0.3	-30.2	
7,302.0	7.60	6.70	7,262.8	525.7	121.7	0.48	-0.48	-0.05	-0.5	-28.7	
7,489.0	7.00	12.40	7,448.3	549.1	125.6	0.50	-0.32	3.05	-1.0	-28.4	
7,676.0	4.50	13.20	7,634.3	567.4	129.8	1.34	-1.34	0.43	2.7	-29.5	
7,863.0	3.20	358.90	7,820.9	579.7	131.3	0.86	-0.70	-7.65	8.6	-27.5	
8,049.0	1.30	38.60	8,006.8	586.6	132.5	1.26	-1.02	21.34	-16.2	-23.8	
8,236.0	0.40	131.00	8,193.7	587.8	134.4	0.74	-0.48	49.41	-23.7	19.3	
8,424.0	0.80	151.90	8,381.7	586.2	135.5	0.24	0.21	11.12	-17.2	26.7	
8,612.0	0.80	122.20	8,569.7	584.3	137.2	0.22	0.00	-15.80	-30.6	14.0	
8,806.0	0.60	132.60	8,763.7	582.9	139.1	0.12	-0.10	5.36	-29.9	19.6	
8,994.0	1.20	180.20	8,951.7	580.3	139.8	0.48	0.32	25.32	-8.4	36.0	
9,183.0	1.10	213.60	9,140.6	576.8	138.8	0.35	-0.05	17.67	9.4	35.8	
9,369.0	0.80	254.20	9,326.6	575.0	136.6	0.39	-0.16	21.83	27.7	22.2	
9,557.0	0.80	291.50	9,514.6	575.1	134.1	0.27	0.00	19.84	33.2	1.7	
9,744.0	1.40	307.30	9,701.6	577.0	131.0	0.36	0.32	8.45	28.8	-7.1	
9,932.0	1.30	286.50	9,889.5	579.0	127.2	0.26	-0.05	-11.06	25.2	2.8	
10,119.0	1.60	304.80	10,076.5	581.0	123.0	0.29	0.16	9.79	20.2	-4.6	
10,306.0	1.80	303.40	10,263.4	584.2	118.4	0.11	0.11	-0.75	14.7	-4.1	
10,493.0	2.10	316.40	10,450.3	588.3	113.6	0.28	0.16	6.95	7.1	-6.7	
10,681.0	2.90	282.10	10,638.1	591.7	106.6	0.88	0.43	-18.24	2.1	-3.4	
10,867.0	2.00	276.70	10,823.9	593.1	98.7	0.50	-0.48	-2.90	-5.5	-3.7	
11,055.0	1.00	149.70	11,011.9	592.1	96.3	1.45	-0.53	-67.55	6.6	-4.8	
11,243.0	0.40	118.20	11,199.9	590.3	97.7	0.37	-0.32	-16.76	6.1	-1.5	
11,431.0	1.80	108.40	11,387.8	589.1	101.1	0.75	0.74	-5.21	2.7	-0.6	
11,618.0	2.10	113.00	11,574.7	586.8	107.0	0.18	0.16	2.46	-3.7	-0.6	

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11,806.0	0.70	89.40	11,762.7	585.5	111.4	0.79	-0.74	-12.55	-7.5	-3.4
11,939.0	1.10	103.88	11,895.6	585.2	113.4	0.34	0.30	10.89	-10.2	-1.2
12,024.0	0.70	51.50	11,980.6	585.3	114.6	1.03	-0.47	-61.62	-6.3	-9.4
12,117.0	0.70	31.50	12,073.6	586.2	115.3	0.26	0.00	-21.51	-3.8	-11.2
12,210.0	0.90	28.80	12,166.6	587.3	116.0	0.22	0.22	-2.90	-4.5	-11.4
12,304.0	0.80	35.00	12,260.6	588.5	116.7	0.14	-0.11	6.60	-7.1	-10.8
12,351.0	5.10	191.50	12,307.6	586.7	116.5	12.43	9.15	332.98	1.0	12.7
12,398.0	11.30	179.60	12,354.1	580.0	116.1	13.61	13.19	-25.32	-3.8	12.2
12,444.0	13.90	173.90	12,398.9	570.0	116.7	6.26	5.65	-12.39	-6.1	12.2
12,448.3	14.50	174.16	12,403.2	569.0	116.8	13.88	13.81	5.94	-6.1	12.3
KOP (Condor 32 State #706H)										
12,491.0	20.40	175.90	12,443.8	556.2	117.9	13.88	13.83	4.08	-6.0	13.5
12,538.0	23.70	176.30	12,487.4	538.6	119.1	7.03	7.02	0.85	-5.5	14.6
12,585.0	30.70	177.40	12,529.2	517.2	120.3	14.93	14.89	2.34	-4.4	15.7
12,631.0	37.00	180.20	12,567.3	491.6	120.8	14.11	13.70	6.09	-3.8	16.1
12,678.0	42.20	180.80	12,603.6	461.7	120.5	11.09	11.06	1.28	-3.8	15.6
12,725.0	51.00	181.30	12,635.8	427.5	119.8	18.74	18.72	1.06	-5.0	14.7
12,772.0	54.00	181.60	12,664.4	390.3	118.9	6.40	6.38	0.64	-7.7	13.5
12,819.0	56.70	181.80	12,691.1	351.6	117.8	5.76	5.74	0.43	-10.8	12.0
12,865.9	58.60	181.40	12,716.2	312.0	116.7	4.11	4.04	-0.85	-13.9	10.6
FTP Crossing, MD:12865.9', TVD:12716.2', N/S:312.0', E/W:116.7', INC:58.60										
12,866.0	58.60	181.40	12,716.3	311.9	116.6	4.11	4.04	-0.83	-14.0	10.6
12,912.0	59.60	181.80	12,739.9	272.5	115.5	2.30	2.17	0.87	-16.2	9.2
12,949.6	61.44	181.32	12,758.4	239.7	114.7	5.02	4.89	-1.28	-17.7	8.0
FTP (Condor 32 State #706H)										
12,959.0	61.90	181.20	12,762.9	231.5	114.5	5.02	4.90	-1.25	-18.1	7.7
13,005.0	68.90	179.40	12,782.0	189.7	114.3	15.63	15.22	-3.91	-21.7	6.9
13,052.0	73.30	178.30	12,797.2	145.3	115.2	9.62	9.36	-2.34	-28.1	7.2

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13,099.0	75.60	177.70	12,809.8	100.0	116.8	5.05	4.89	-1.28	-35.3	8.2	
13,146.0	75.60	177.60	12,821.5	54.5	118.6	0.21	0.00	-0.21	-41.3	9.5	
13,192.0	76.20	177.30	12,832.7	10.0	120.6	1.45	1.30	-0.65	-43.2	11.1	
13,239.0	76.30	177.20	12,843.9	-35.6	122.8	0.30	0.21	-0.21	-40.3	13.2	
13,285.0	76.20	177.70	12,854.8	-80.3	124.8	1.08	-0.22	1.09	-32.6	15.1	
13,332.0	77.30	178.00	12,865.6	-126.0	126.5	2.42	2.34	0.64	-22.5	16.4	
13,378.0	80.50	178.50	12,874.5	-171.1	127.9	7.04	6.96	1.09	-14.3	17.2	
13,424.0	83.70	179.40	12,880.8	-216.7	128.7	7.22	6.96	1.96	-8.7	17.6	
13,515.0	88.40	178.80	12,887.0	-307.4	130.1	5.21	5.16	-0.66	-3.8	18.2	
13,608.0	88.60	180.60	12,889.5	-400.4	130.6	1.95	0.22	1.94	-2.7	17.9	
13,702.0	87.60	180.70	12,892.6	-494.3	129.6	1.07	-1.06	0.11	-0.9	16.0	
13,795.0	89.40	179.90	12,895.0	-587.3	129.1	2.12	1.94	-0.86	0.2	14.6	
13,887.0	87.10	179.70	12,897.8	-679.2	129.4	2.51	-2.50	-0.22	1.7	14.1	
13,980.0	84.90	178.70	12,904.3	-772.0	130.7	2.60	-2.37	-1.08	6.8	14.6	
14,074.0	87.00	179.20	12,911.0	-865.7	132.4	2.30	2.23	0.53	12.1	15.5	
14,167.0	87.00	180.00	12,915.8	-958.6	133.1	0.86	0.00	0.86	15.6	15.3	
14,260.0	85.30	179.00	12,922.1	-1,051.4	133.9	2.12	-1.83	-1.08	20.5	15.3	
14,353.0	90.60	181.90	12,925.4	-1,144.3	133.1	6.49	5.70	3.12	22.5	13.7	
14,447.0	92.10	183.10	12,923.2	-1,238.2	129.0	2.04	1.60	1.28	18.9	8.7	
14,541.0	92.40	182.80	12,919.5	-1,332.0	124.2	0.45	0.32	-0.32	13.9	3.1	
14,635.0	91.60	182.20	12,916.2	-1,425.8	120.1	1.06	-0.85	-0.64	9.2	-1.9	
14,705.9	90.62	181.60	12,914.8	-1,496.7	117.8	1.62	-1.38	-0.85	6.8	-4.9	
TGT 1 (Condor 32 State #706H)											
14,729.0	90.30	181.40	12,914.7	-1,519.7	117.1	1.62	-1.38	-0.85	6.4	-5.7	
14,823.0	90.40	180.40	12,914.1	-1,613.7	115.7	1.07	0.11	-1.06	4.8	-8.0	
14,917.0	88.80	178.80	12,914.7	-1,707.7	116.3	2.41	-1.70	-1.70	4.3	-8.2	
15,010.0	88.60	178.30	12,916.9	-1,800.7	118.7	0.58	-0.22	-0.54	5.4	-6.7	

PVA Report

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #706H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 3340.0usft
Site:	Condor 32 State	MD Reference:	KB = 25' @ 3340.0usft
Well:	#706H	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)	
15,104.0	90.90	181.00	12,917.3	-1,894.6	119.3	3.77	2.45	2.87	4.8	-7.0	
15,197.0	89.70	179.90	12,916.8	-1,987.6	118.5	1.75	-1.29	-1.18	3.2	-8.5	
15,290.0	87.80	179.30	12,918.8	-2,080.6	119.2	2.14	-2.04	-0.65	4.2	-8.7	
15,384.0	90.20	179.20	12,920.4	-2,174.6	120.4	2.56	2.55	-0.11	4.8	-8.4	
15,477.0	90.20	178.90	12,920.1	-2,267.6	121.9	0.32	0.00	-0.32	3.4	-7.7	
15,571.0	90.90	178.90	12,919.2	-2,361.5	123.7	0.74	0.74	0.00	1.4	-6.7	
15,664.0	91.20	179.00	12,917.5	-2,454.5	125.5	0.34	0.32	0.11	-1.3	-5.9	
15,757.0	91.40	178.70	12,915.4	-2,547.5	127.3	0.39	0.22	-0.32	-4.5	-4.8	
15,850.0	90.90	177.40	12,913.5	-2,640.4	130.5	1.50	-0.54	-1.40	-7.4	-2.5	
15,943.0	88.70	177.40	12,913.9	-2,733.3	134.7	2.37	-2.37	0.00	-8.1	0.9	
16,037.0	89.00	177.80	12,915.8	-2,827.2	138.6	0.53	0.32	0.43	-7.3	3.9	
16,131.0	86.90	178.10	12,919.1	-2,921.1	142.0	2.26	-2.23	0.32	-5.0	6.5	
16,208.0	88.37	179.99	12,922.3	-2,998.0	143.3	3.11	1.91	2.45	-2.7	7.0	
TGT 2 (Condor 32 State #706H)											
16,225.0	88.70	180.40	12,922.7	-3,015.0	143.2	3.11	1.92	2.44	-2.5	6.8	
16,318.0	88.30	179.80	12,925.2	-3,107.9	143.1	0.78	-0.43	-0.65	-1.2	5.8	
16,411.0	87.30	178.90	12,928.7	-3,200.9	144.1	1.45	-1.08	-0.97	1.3	6.0	
16,504.0	86.60	179.00	12,933.7	-3,293.7	145.8	0.76	-0.75	0.11	5.1	6.9	
16,598.0	88.40	180.20	12,937.8	-3,387.6	146.5	2.30	1.91	1.28	8.1	6.7	
16,692.0	88.50	179.40	12,940.3	-3,481.6	146.8	0.86	0.11	-0.85	9.5	6.2	
16,805.0	93.30	178.90	12,938.5	-3,594.5	148.5	4.27	4.25	-0.44	6.3	6.8	
16,899.0	94.70	179.20	12,932.0	-3,688.3	150.0	1.52	1.49	0.32	-1.4	7.5	
16,992.0	90.90	180.00	12,927.4	-3,781.2	150.7	4.18	-4.09	0.86	-7.0	7.3	
17,085.0	90.50	179.80	12,926.3	-3,874.1	150.8	0.48	-0.43	-0.22	-9.3	6.7	
17,179.0	90.40	179.60	12,925.6	-3,968.1	151.3	0.24	-0.11	-0.21	-11.2	6.3	
17,272.0	90.40	180.50	12,924.9	-4,061.1	151.3	0.97	0.00	0.97	-12.9	5.4	
17,366.0	89.30	180.40	12,925.2	-4,155.1	150.5	1.18	-1.17	-0.11	-13.8	3.8	

PVA Report

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #706H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 3340.0usft
Site:	Condor 32 State	MD Reference:	KB = 25' @ 3340.0usft
Well:	#706H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

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)
17,459.0	92.10	183.50	12,924.0	-4,248.1	147.4	4.49	3.01	3.33	-16.1	-0.2
Final MWD Survey (MD=17459.0')										
17,515.1	92.10	183.50	12,922.0	-4,304.0	143.9	0.00	0.00	0.00	-18.8	-4.1
LTP Crossing, MD:17515.1', TVD:12922.0', N/S:-4304.0', E/W:143.9', INC:92.10										
17,613.8	92.10	183.50	12,918.4	-4,402.5	137.9	0.00	0.00	0.00	-23.6	-11.1
PBHL (Condor 32 State #706H)										
17,614.0	92.10	183.50	12,918.4	-4,402.7	137.9	0.00	0.00	0.00	-23.6	-11.1
Final Projection to Bit (MD=17614.0')										

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
12,865.9	12,716.2	312.0	116.7	FTP Crossing, MD:12865.9', TVD:12716.2', N/S:312.0', E/W:116.7', INC:58.60
17,459.0	12,924.0	-4,248.1	147.4	Final MWD Survey (MD=17459.0')
17,515.1	12,922.0	-4,304.0	143.9	LTP Crossing, MD:17515.1', TVD:12922.0', N/S:-4304.0', E/W:143.9', INC:92.10
17,614.0	12,918.4	-4,402.7	137.9	Final Projection to Bit (MD=17614.0')

Checked By: _____ Approved By: _____ Date: _____



Lea County, NM (NAD 83 NME)

Condor 32 State #706H

Plan #2

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: #706H

KB = 25' @ 3340.0usft
Northing 398403.00 Easting 802825.00 Latitude 32° 8' 32.910 N Longitude 103° 29' 20.247 W



Azimuths to Grid North
True North: -0.45°
Magnetic North: 6.42°
Magnetic Field Strength: 47835.1snT
Dip Angle: 59.95°
Date: 10/17/2015
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	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	2300.0	0.00	0.00	2300.0	0.0	0.0	0.00	0.00	0.0	
3	2550.0	5.00	10.00	2549.7	10.7	1.9	2.00	10.00	-10.7	
4	5059.9	5.00	10.00	5050.0	226.2	39.9	0.00	0.00	-224.7	
5	5209.9	8.00	10.00	5199.0	242.9	42.8	2.00	0.00	-241.3	
6	7533.5	8.00	10.00	7500.0	561.4	99.0	0.00	0.00	-557.7	
7	7933.5	0.00	0.00	7898.7	588.8	103.8	2.00	-180.00	-585.0	
8	12319.8	0.00	0.00	12285.0	588.8	103.8	0.00	0.00	-585.0	
9	12719.8	48.00	179.48	12539.8	430.8	105.3	12.00	179.48	-427.0	
10	13129.8	68.50	179.48	12854.4	84.1	108.4	5.00	0.00	-80.3	
11	13302.0	89.17	179.49	12887.6	-84.0	109.9	12.00	0.01	87.7	
12	14714.9	89.17	179.49	12908.0	-1496.7	122.6	0.00	0.00	1500.0	TGT 1 (Condor 32 State #706H)
13	14723.9	89.35	179.48	12908.1	-1505.7	122.7	2.00	-1.68	1509.0	TGT 2 (Condor 32 State #706H)
14	16216.4	89.35	179.48	12925.0	-2998.0	136.2	0.00	0.00	3000.9	PBHL (Condor 32 State #706H)
15	16218.6	89.31	179.48	12925.0	-3000.2	136.2	2.00	179.98	3003.1	
16	17622.5	89.31	179.48	12942.0	-4404.0	149.0	0.00	0.00	4406.5	

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 #706H)	12409.6	588.8	103.8	398991.81	802928.82
FTP (Condor 32 State #706H)	12887.0	312.0	106.0	398716.00	802931.00
TGT 1 (Condor 32 State #706H)	12908.0	-1496.7	122.6	398906.30	802947.61
TGT 2 (Condor 32 State #706H)	12925.0	-2998.0	136.2	398405.00	802961.24
PBHL (Condor 32 State #706H)	12942.0	-4404.0	149.0	393999.00	802974.00

