

HOBBS OCD
OCT 04 2018
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EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Condor 32 State

#603H (#710H)

OH

Design: OH

Midland PVA

21 May, 2018



Midland PVA



Company:	EOG Resources - Midland			Local Co-ordinate Reference:	Well #803H (#710H)
Project:	Lea County, NM (NAD 83 NME)			TVD Reference:	KB = 25 @ 3345.0usft (H&P 424)
Site:	Condor 32 State			MD Reference:	KB = 25 @ 3345.0usft (H&P 424)
Well:	#803H (#710H)			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	#803H (#710H)				
Well Position	+N/-S	0.0 usft	Northing:	398,194.00 usft	Latitude:
	+E/-W	0.0 usft	Easting:	801,814.00 usft	Longitude:
Position Uncertainty	0.0 usft		Wellhead Elevation:	usft	Ground Level:
					3,320.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	IGRF2015	5/8/2018	6.81	59.94	47,777.22051655

Design	OH				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction	
	(usft)	(usft)	(usft)	(°)	
	0.0	0.0	0.0	178.62	

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Survey Program	Date	5/21/2018			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
107.0	1,017.0	Invicta MWD (OH)	MWD	OWSG MWD - Standard	
1,109.0	17,155.0	Newsco MWD #1 (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
107.0	1.00	90.50	107.0	0.0	0.9	0.93	0.93	0.00	0.0	0.0
221.0	1.50	54.30	221.0	0.9	3.1	0.80	0.44	-31.75	0.0	0.0
349.0	1.50	63.20	349.0	2.6	6.0	0.18	0.00	6.95	0.0	0.0
474.0	2.00	78.30	473.9	3.8	9.6	0.54	0.40	12.08	0.0	0.0
600.0	2.40	57.40	599.8	5.6	14.0	0.71	0.32	-16.59	0.0	0.0
727.0	2.50	54.20	726.7	8.7	18.5	0.13	0.08	-2.52	0.0	0.0
853.0	2.90	50.20	852.5	12.3	23.1	0.35	0.32	-3.17	0.0	0.0
885.0	3.00	44.90	884.5	13.4	24.3	0.91	0.31	-16.56	0.0	0.0
917.0	2.90	42.30	916.4	14.6	25.5	0.52	-0.31	-8.13	0.0	0.0
959.0	2.80	41.10	958.4	16.2	26.9	0.28	-0.24	-2.86	0.0	0.0
1,017.0	2.60	40.90	1,016.3	18.3	28.7	0.35	-0.34	-0.34	0.0	0.0
1,109.0	0.90	45.60	1,108.3	20.3	30.5	1.85	-1.85	5.11	0.0	0.0
1,296.0	0.30	125.40	1,295.3	21.1	32.0	0.48	-0.32	42.67	0.0	0.0
1,544.0	0.40	274.70	1,543.3	20.8	31.7	0.27	0.04	60.20	0.0	0.0
1,732.0	3.30	3.70	1,731.2	26.2	31.4	1.76	1.54	47.34	0.0	0.0
1,920.0	6.20	7.50	1,918.5	41.7	33.0	1.55	1.54	2.02	0.0	0.0
2,107.0	6.10	9.60	2,104.4	61.5	36.0	0.13	-0.05	1.12	0.0	0.0
2,295.0	7.70	30.30	2,291.1	82.2	44.0	1.56	0.85	11.01	0.0	0.0
2,482.0	6.60	28.70	2,476.6	102.5	55.5	0.60	-0.59	-0.86	0.0	0.0
2,670.0	10.20	27.00	2,662.6	126.8	68.3	1.92	1.91	-0.90	0.0	0.0

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Well:	#603H (#710H)	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)
2,857.0	9.30	30.40	2,846.9	154.6	83.4	0.57	-0.48	1.82	0.0	0.0
3,044.0	9.00	37.00	3,031.5	179.3	99.9	0.58	-0.16	3.53	0.0	0.0
3,229.0	8.80	22.60	3,214.3	203.9	114.0	1.21	-0.11	-7.78	0.0	0.0
3,416.0	7.60	30.60	3,399.4	227.8	125.8	0.88	-0.64	4.28	0.0	0.0
3,603.0	7.20	22.50	3,584.8	249.2	136.6	0.60	-0.21	-4.33	0.0	0.0
3,792.0	9.00	19.10	3,771.9	274.2	146.0	0.99	0.95	-1.80	0.0	0.0
3,979.0	8.50	30.70	3,956.8	299.9	157.8	0.98	-0.27	6.20	0.0	0.0
4,167.0	8.30	40.00	4,142.8	322.2	173.6	0.73	-0.11	4.95	0.0	0.0
4,355.0	8.00	32.40	4,328.9	343.7	189.4	0.59	-0.16	-4.04	0.0	0.0
4,541.0	7.50	37.60	4,513.2	364.2	203.7	0.46	-0.27	2.80	0.0	0.0
4,730.0	7.80	33.00	4,700.5	384.7	218.2	0.36	0.16	-2.43	0.0	0.0
4,918.0	8.60	32.90	4,886.6	407.2	232.8	0.43	0.43	-0.05	0.0	0.0
5,106.0	8.60	24.90	5,072.5	431.8	246.3	0.64	0.00	-4.26	0.0	0.0
5,165.0	8.80	18.20	5,130.8	440.1	249.6	1.75	0.34	-11.36	0.0	0.0
5,286.0	7.60	14.80	5,252.5	456.9	254.6	1.05	-0.98	-2.76	0.0	0.0
5,475.0	9.20	0.30	5,437.5	483.8	257.9	1.41	0.86	-7.75	0.0	0.0
5,661.0	9.90	343.40	5,621.0	514.0	253.4	1.55	0.38	-9.09	0.0	0.0
5,849.0	10.00	317.40	5,806.2	541.5	237.7	2.37	0.05	-13.83	0.0	0.0
6,038.0	10.50	317.00	5,992.2	566.2	214.8	0.27	0.26	-0.21	0.0	0.0
6,223.0	9.50	315.70	6,174.4	589.4	192.7	0.55	-0.54	-0.70	0.0	0.0
6,411.0	11.20	312.30	6,359.4	612.8	168.3	0.96	0.90	-1.81	0.0	0.0
6,599.0	11.00	313.30	6,543.8	637.4	141.8	0.15	-0.11	0.53	0.0	0.0
6,788.0	11.10	313.00	6,729.3	662.2	115.4	0.06	0.05	-0.16	0.0	0.0
6,976.0	10.80	312.90	6,913.9	686.5	89.2	0.16	-0.16	-0.05	0.0	0.0
7,164.0	10.30	313.60	7,098.7	710.1	64.1	0.27	-0.27	0.37	0.0	0.0
7,353.0	8.90	309.50	7,285.1	731.0	40.6	0.82	-0.74	-2.17	0.0	0.0
7,539.0	9.40	318.70	7,468.7	751.6	19.5	0.83	0.27	4.95	0.0	0.0

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Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
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Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	EW (usft)	DLeg (°/100usft)	Buile (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
7,727.0	8.40	318.00	7,654.5	773.4	0.2	0.54	-0.53	-0.37	0.0	0.0	
7,911.0	3.00	351.10	7,837.5	788.1	-9.6	3.32	-2.93	17.99	0.0	0.0	
8,006.0	0.40	273.00	7,932.5	790.6	-10.3	3.10	-2.74	-82.21	0.0	0.0	
8,194.0	0.60	217.30	8,120.5	789.8	-11.5	0.27	0.11	-29.63	0.0	0.0	
8,382.0	0.80	182.10	8,308.5	787.7	-12.2	0.25	0.11	-18.72	0.0	0.0	
8,570.0	1.50	3.80	8,496.4	788.9	-12.1	1.22	0.37	-94.84	0.0	0.0	
8,757.0	1.40	4.30	8,683.4	793.6	-11.7	0.05	-0.05	0.27	0.0	0.0	
8,946.0	0.80	0.40	8,872.3	797.2	-11.5	0.32	-0.32	-2.06	0.0	0.0	
9,133.0	0.40	33.70	9,059.3	799.1	-11.2	0.28	-0.21	17.81	0.0	0.0	
9,321.0	0.20	90.80	9,247.3	799.6	-10.5	0.18	-0.11	30.37	0.0	0.0	
9,507.0	0.80	30.00	9,433.3	800.7	-9.5	0.39	0.32	-32.69	0.0	0.0	
9,695.0	1.60	2.90	9,621.3	804.5	-8.7	0.51	0.43	-14.41	0.0	0.0	
9,884.0	0.40	194.90	9,810.3	806.5	-8.8	1.05	-0.63	-88.89	0.0	0.0	
10,073.0	0.40	352.00	9,999.3	806.5	-9.0	0.41	0.00	83.12	0.0	0.0	
10,262.0	0.90	113.70	10,188.2	806.6	-7.8	0.61	0.26	64.39	0.0	0.0	
10,447.0	0.60	201.20	10,373.2	805.1	-6.8	0.57	-0.16	47.30	0.0	0.0	
10,634.0	1.10	273.80	10,560.2	804.3	-8.9	0.58	0.27	38.82	0.0	0.0	
10,822.0	0.90	287.20	10,748.2	804.8	-12.1	0.16	-0.11	7.13	0.0	0.0	
11,011.0	1.60	276.90	10,937.1	805.6	-16.2	0.39	0.37	-5.45	0.0	0.0	
11,199.0	1.00	203.40	11,125.1	804.4	-19.4	0.87	-0.32	-39.10	0.0	0.0	
11,386.0	1.20	250.10	11,312.1	802.2	-21.9	0.48	0.11	24.97	0.0	0.0	
11,574.0	1.10	206.80	11,500.0	800.0	-24.6	0.45	-0.05	-23.03	0.0	0.0	
11,761.0	2.00	225.50	11,687.0	796.1	-27.7	0.55	0.48	10.00	0.0	0.0	
11,871.0	2.00	233.90	11,796.9	793.6	-30.6	0.27	0.00	7.64	-0.8	-0.2	
11,950.0	2.10	235.90	11,875.8	792.0	-32.9	0.16	0.13	2.53	-2.3	-0.3	
12,045.0	9.00	183.60	11,970.4	783.6	-34.9	8.31	7.26	-55.05	-9.3	-3.1	
12,139.0	20.50	170.00	12,061.2	759.9	-32.5	12.70	12.23	-14.47	-22.4	-6.8	

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12,232.0	32.70	171.40	12,144.2	718.9	-25.8	13.13	13.12	1.51	-37.1	-5.9	
12,325.0	39.10	171.60	12,219.4	665.0	-17.8	6.88	6.88	0.22	-47.4	-6.1	
12,420.0	48.40	167.30	12,288.0	600.6	-5.6	10.27	9.79	-4.53	-49.9	-6.4	
12,513.0	59.40	165.40	12,342.7	527.7	12.2	11.94	11.83	-2.04	-48.9	-0.2	
12,530.4	60.66	166.49	12,351.4	513.0	15.9	9.05	7.24	6.27	-48.3	1.8	
FTP Crossing 12530.4' MD; 12351.4' TVD; 513.0'; 15.9'; 60.66											
12,607.0	66.30	171.00	12,385.6	445.9	29.2	9.05	7.36	5.89	-41.9	6.4	
12,701.0	74.20	173.60	12,417.4	358.3	41.0	8.80	8.40	2.77	-27.0	4.8	
12,795.0	89.10	178.60	12,431.0	265.8	47.2	16.70	15.85	5.32	-15.3	-2.6	
12,889.0	90.00	181.30	12,431.7	171.8	47.3	3.03	0.96	2.87	-15.2	-11.8	
12,982.0	86.90	183.00	12,434.2	78.9	43.8	3.80	-3.33	1.83	-13.3	-19.9	
13,076.0	86.30	180.50	12,439.8	-14.9	40.9	2.73	-0.64	-2.66	-8.2	-23.9	
13,169.0	88.40	178.20	12,444.1	-107.8	42.0	3.35	2.26	-2.47	-4.5	-23.7	
13,263.0	90.00	177.90	12,445.4	-201.7	45.2	1.73	1.70	-0.32	-3.7	-21.3	
13,357.0	88.30	180.30	12,446.8	-295.7	46.7	3.13	-1.81	2.55	-2.9	-20.6	
13,451.0	86.80	177.80	12,450.8	-389.6	48.2	3.10	-1.60	-2.66	0.6	-19.9	
13,545.0	91.30	179.70	12,452.4	-483.5	50.3	5.20	4.79	2.02	1.5	-18.7	
13,669.0	87.50	178.30	12,453.7	-607.5	52.4	3.27	-3.06	-1.13	2.1	-17.6	
13,762.0	89.40	180.10	12,456.2	-700.4	53.7	2.81	2.04	1.94	4.0	-17.1	
13,854.0	86.10	177.10	12,459.8	-792.3	56.0	4.85	-3.59	-3.26	7.1	-15.6	
13,948.0	86.70	177.40	12,465.7	-886.0	60.5	0.71	0.64	0.32	12.4	-12.0	
14,042.0	88.00	178.60	12,470.1	-979.8	63.7	1.88	1.38	1.28	16.2	-9.5	
14,134.0	91.50	179.80	12,470.5	-1,071.8	65.0	4.02	3.80	1.30	16.1	-9.0	
14,227.0	92.20	180.20	12,467.5	-1,164.7	65.0	0.87	0.75	0.43	12.5	-9.8	
14,321.0	87.60	180.30	12,467.6	-1,258.7	64.6	4.89	-4.89	0.11	12.1	-11.1	
14,416.0	87.20	178.60	12,471.9	-1,353.6	65.5	1.84	-0.42	-1.79	15.8	-11.0	
14,510.0	91.30	179.30	12,473.2	-1,447.6	67.2	4.42	4.36	0.74	16.1	-10.1	

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14,603.0	90.40	178.50	12,471.8	-1,540.5	69.0	1.29	-0.97	-0.86	13.9	-9.1	
14,696.0	89.10	177.40	12,472.2	-1,633.5	72.4	1.83	-1.40	-1.18	13.5	-6.6	
14,790.0	91.60	177.60	12,471.6	-1,727.4	76.5	2.67	2.66	0.21	12.0	-3.3	
14,884.0	92.10	178.40	12,468.6	-1,821.3	79.7	1.00	0.53	0.85	8.1	-0.9	
14,978.0	89.60	182.30	12,467.2	-1,915.2	79.2	4.93	-2.66	4.15	5.9	-2.3	
15,073.0	84.50	182.90	12,472.1	-2,010.0	74.9	5.41	-5.37	0.63	9.8	-7.4	
15,166.0	86.20	182.40	12,479.6	-2,102.6	70.6	1.90	1.83	-0.54	16.5	-12.5	
15,260.0	89.30	181.90	12,483.3	-2,196.4	67.1	3.34	3.30	-0.53	19.4	-16.8	
15,355.0	90.20	179.50	12,483.7	-2,291.4	65.9	2.70	0.95	-2.53	18.9	-18.8	
15,450.0	90.10	176.60	12,483.5	-2,386.3	69.1	3.05	-0.11	-3.05	17.8	-16.4	
15,543.0	92.40	178.50	12,481.5	-2,479.2	73.1	3.21	2.47	2.04	14.9	-13.3	
15,636.0	92.50	178.30	12,477.5	-2,572.1	75.7	0.24	0.11	-0.22	10.0	-11.5	
15,728.0	88.60	176.30	12,476.6	-2,664.0	80.0	4.76	-4.24	-2.17	8.2	-7.9	
15,822.0	89.80	178.00	12,477.9	-2,757.8	84.7	2.21	1.28	1.81	8.6	-4.1	
15,916.0	88.00	178.20	12,479.7	-2,851.8	87.8	1.93	-1.91	0.21	9.5	-1.8	
16,010.0	91.00	181.30	12,480.5	-2,945.7	88.2	4.59	3.19	3.30	9.4	-2.2	
16,105.0	90.80	181.50	12,479.0	-3,040.7	85.9	0.30	-0.21	0.21	7.0	-5.4	
16,199.0	88.40	179.20	12,479.7	-3,134.7	85.3	3.54	-2.55	-2.45	6.7	-6.8	
16,293.0	87.80	175.40	12,482.8	-3,228.5	89.8	4.09	-0.64	-4.04	8.9	-3.2	
16,387.0	88.20	176.90	12,486.1	-3,322.2	96.1	1.65	0.43	1.60	11.3	2.3	
16,480.0	89.60	180.50	12,487.9	-3,415.2	98.2	4.15	1.51	3.87	12.2	3.8	
16,574.0	90.70	183.60	12,487.6	-3,509.1	94.8	3.50	1.17	3.30	10.8	-0.6	
16,669.0	88.30	183.30	12,488.5	-3,603.9	89.1	2.55	-2.53	-0.32	10.4	-7.1	
16,762.0	93.50	183.20	12,487.0	-3,696.7	83.8	5.59	5.59	-0.11	7.7	-13.2	
16,854.0	92.90	183.00	12,481.9	-3,788.4	78.9	0.69	-0.65	-0.22	1.4	-19.0	
16,948.0	89.40	178.50	12,480.0	-3,882.4	77.6	6.06	-3.72	-4.79	-1.8	-21.0	
17,042.0	89.80	177.10	12,480.6	-3,976.3	81.2	1.55	0.43	-1.49	-2.4	-18.3	

Midland PVA



Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #603H (#710H)
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3345.0usft (H&P 424)
Site:	Condor 32 State	MD Reference:	KB = 25 @ 3345.0usft (H&P 424)
Well:	#603H (#710H)	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

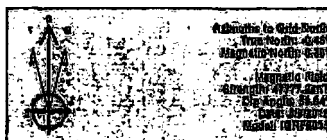
Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	BuId (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
17,100.0	90.00	177.00	12,480.7	-4,034.3	84.2	0.39	0.34	-0.17	-3.0	-15.8
Last MWD Survey (MD = 17100.0)										
17,155.0	90.00	177.00	12,480.7	-4,089.2	87.1	0.00	0.00	0.00	-3.8	-13.4
Projection to Bit (MD = 17155.0)										

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N-S (usft)	+E-W (usft)	
12,530.4	12,351.4	513.0	15.9	FTP Crossing 12530.4' MD; 12351.4' TVD; 513.0'; 15.9'; 60.66
17,100.0	12,480.7	-4,034.3	84.2	Last MWD Survey (MD = 17100.0)
17,155.0	12,480.7	-4,089.2	87.1	Projection to Bit (MD = 17155.0)

Checked By: _____ Approved By: _____ Date: _____



Lea County, NM (NAD 83 NME)
Condor 32 State #603H (#710H)
H&P 424
Plan #3



To convert a Magnetic Direction to a Grid Direction, Add 6.30°
To convert a Magnetic Direction to a True Direction, Add 6.81° East
To convert a True Direction to a Grid Direction, Subtract 0.45°

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: #603H (#710H)

KB = 25 @ 3345.0ush (H&P 424)
Northing 398194.00 Easting 801814.00
Latitude 32° 5' 30.521 N Longitude 103° 29' 32.018 W

SECTION DETAILS 1343.3

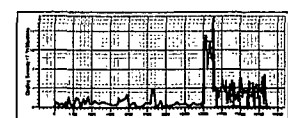
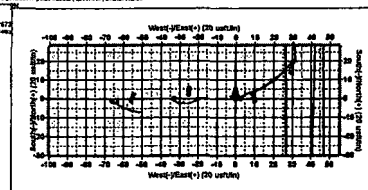
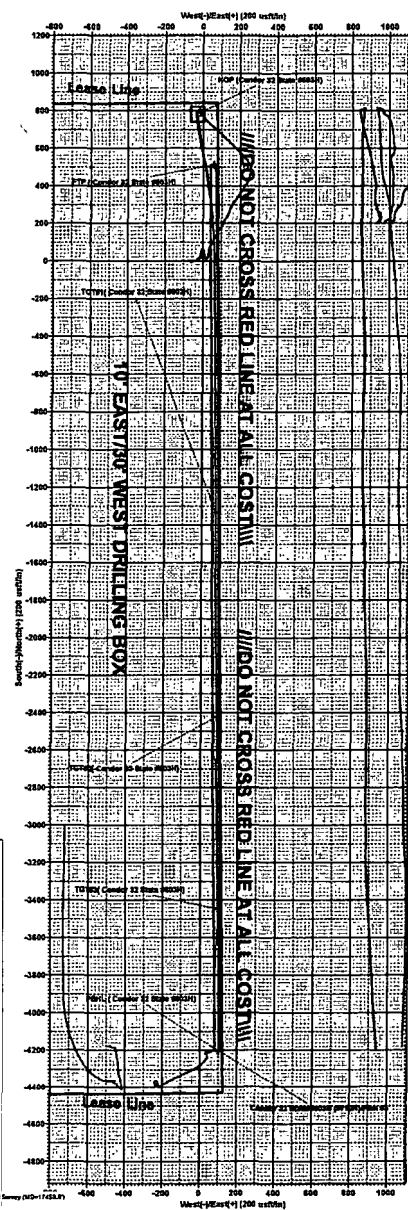
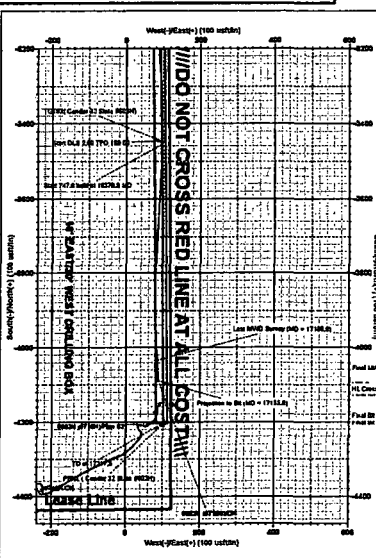
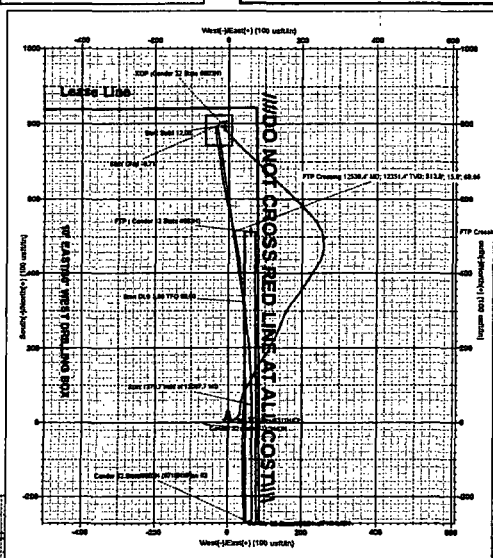
Sec	MD	Inc	Azi	TVD	+N/S	+E/W	Dleg	TFace	Vsect	Target
1	11761.0	2.00	225.50	11687.0	796.1	-27.7	0.00	0.00	-796.5	
2	12042.6	0.00	0.00	11968.5	782.6	-31.2	0.71	180.00	-793.1	
3	12789.7	89.65	171.16	12446.0	323.7	41.7	12.00	171.16	-322.6	
4	13067.7	89.65	179.50	12447.6	46.8	64.3	3.00	90.00	-45.3	
5	14447.4	89.65	179.50	12456.0	-1332.8	76.3	0.00	0.00	1334.3	TGT#1 (Condor 32 State #603H)
6	14456.5	89.47	179.50	12456.1	-1341.9	76.4	2.00	-178.59		
7	15535.2	89.47	179.50	12468.0	-2420.5	85.8	0.00	0.00	2421.8	TGT#2 (Condor 32 State #603H)
8	15538.7	89.44	179.50	12468.0	-2422.0	85.9	2.00	179.97	2423.4	
9	16560.5	89.44	179.50	12476.0	-3445.7	94.6	0.00	0.00	3447.0	TGT#3 (Condor 32 State #603H)
10	16570.5	89.24	179.50	12476.1	-3455.7	94.9	2.00	180.00	3456.9	
11	17317.5	89.24	179.50	12486.0	-4202.6	101.5	0.00	0.00	4203.8	PBHL (Condor 32 State #603H)

CASINGS DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/S	+E/W	Northing	Easting
KOP (Condor 32 State #603H)	7854.0	793.0	-12.4	398984.99	801801.87
FTP (Condor 32 State #603H)	12446.0	515.3	60.1	398707.23	801874.12
TOTW (Condor 32 State #603H)	12456.0	-1332.8	76.3	398951.18	801890.31
TOTW2 (Condor 32 State #603H)	12468.0	-2420.5	85.8	398773.52	801899.88
TOTW3 (Condor 32 State #603H)	12476.0	-3445.7	94.6	398746.30	801908.94
PBHL (Condor 32 State #603H)	12486.0	-4202.6	101.5	398991.43	801915.47



Lea County, NM (NAD 83 NME)
Condor 32 State #603H (#710H)
H&P 424
Plan #3