



HOBBS OCD

OCT 31 2018

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EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Dragon 36 State

#301H

OH

Design: OH

Midland PVA

06 September, 2018



Midland PVA

Company: EOG Resources - Midland	Local Co-ordinate Reference: Well #301H
Project: Lea County, NM (NAD 83 NME)	TVD Reference: KB = 25 @ 3511.0usft (HP 465)
Site: Dragon 36 State	MD Reference: KB = 25 @ 3511.0usft (HP 465)
Well: #301H	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 Dragon 36 State			
Site Position:	Northing: 426,079.00 usft	Latitude:	32° 10' 7.510 N
From: Map	Easting: 793,102.00 usft	Longitude:	103° 31' 10.836 W
Position Uncertainty: 0.0 usft	Slot Radius: 13-3/16 "	Grid Convergence:	0.43 °

Well #301H			
Well Position	Northing: 426,079.00 usft	Latitude:	32° 10' 7.510 N
+N-S 0.0 usft	Easting: 793,102.00 usft	Longitude:	103° 31' 10.836 W
+E-W 0.0 usft	Wellhead Elevation: usft	Ground Level:	3,496.0 usft
Position Uncertainty 0.0 usft			

Wellbore OH					
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	8/23/2018	6.80	60.00	47,788.62312987

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	3.94	

Company: EOG Resources - Midland	Project: Lea County, NM (NAD 83 NME)	Site: Dragon 36 State	Wellbore: #301H	Design: OH
Date: 6/6/2018				
From (feet)	To (feet)	Survey (Wellbore)	Tool Name	Description
113.0	1249.0	Wellfire MWD 25' + GN (OH)	MWD	OWSG MWD - Standard
1,357.0	15,174.0	Dalltech MWD (OH)	MWD	OWSG MWD - Standard

MD (feet)	Inc (")	Adj (azimuth)	TVD (feet)	N/S (feet)	ENW (feet)	Drag (%100feet)	Build (%100feet)	Turn (%100feet)	High to Plan (feet)	Right to Plan (feet)
780.0	0.40	30.40	780.0	-1.6	-1.1	0.49	0.32	61.29	0.0	0.0
749.0	0.30	11.40	749.0	-1.8	-1.1	2.12	-0.65	-348.39	0.0	0.0
718.0	0.50	119.40	718.0	-1.8	-1.3	1.85	0.63	287.50	0.0	0.0
686.0	0.30	27.40	686.0	-1.8	-1.4	2.13	-0.65	-351.61	0.0	0.0
655.0	0.50	136.40	655.0	-1.8	-1.6	2.00	1.33	-590.00	0.0	0.0
625.0	0.10	313.40	625.0	-1.7	-1.6	2.49	-1.88	503.13	0.0	0.0
593.0	0.70	152.40	593.0	-1.5	-1.7	2.33	0.65	-232.26	0.0	0.0
562.0	0.50	224.40	562.0	-1.3	-1.7	2.24	0.97	-525.81	0.0	0.0
531.0	0.20	27.40	531.0	-1.2	-1.6	1.87	-0.67	-453.33	0.0	0.0
501.0	0.40	163.40	501.0	-1.2	-1.7	1.56	0.94	553.13	0.0	0.0
469.0	0.10	346.40	469.0	-1.1	-1.7	1.15	-0.95	160.22	0.0	0.0
406.0	0.70	245.40	406.0	-1.0	-1.3	2.18	-0.16	-214.06	0.0	0.0
342.0	0.80	22.40	342.0	-1.2	-1.2	4.43	0.65	509.68	0.0	0.0
311.0	0.60	224.40	311.0	-1.3	-1.1	0.64	0.00	61.29	0.0	0.0
280.0	0.60	205.40	280.0	-1.1	-0.9	1.86	0.31	-215.63	0.0	0.0
248.0	0.50	274.40	248.0	-0.9	-0.7	0.36	-0.36	-7.14	0.0	0.0
220.0	0.60	276.40	220.0	-0.9	-0.5	2.38	-0.36	217.86	0.0	0.0
192.0	0.70	215.40	192.0	-0.8	-0.2	1.71	0.00	154.39	0.0	0.0
135.0	0.70	127.40	135.0	-0.3	-0.3	4.21	1.36	-509.09	0.0	0.0
113.0	0.40	239.40	113.0	-0.2	-0.3	0.35	0.35	0.00	0.0	0.0
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.0	0.0



Midland PVA

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Site:	Dragon 36 State	MD Reference:	KB = 25 @ 3511.0usft (HP 465)
Well:	#301H	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)
811.0	0.30	348.40	811.0	-1.4	-1.0	0.86	-0.32	-135.48	0.0	0.0
842.0	0.50	98.40	842.0	-1.4	-0.9	2.15	0.65	354.84	0.0	0.0
874.0	0.40	191.40	874.0	-1.5	-0.8	2.05	-0.31	290.63	0.0	0.0
905.0	0.10	234.40	905.0	-1.6	-0.8	1.08	-0.97	138.71	0.0	0.0
937.0	0.40	162.40	937.0	-1.7	-0.8	1.19	0.94	-225.00	0.0	0.0
968.0	0.30	164.40	968.0	-1.9	-0.8	0.32	-0.32	6.45	0.0	0.0
999.0	0.40	40.40	999.0	-1.9	-0.7	2.00	0.32	-400.00	0.0	0.0
1,030.0	0.20	12.40	1,030.0	-1.8	-0.6	0.78	-0.65	-90.32	0.0	0.0
1,062.0	0.30	7.40	1,062.0	-1.6	-0.6	0.32	0.31	-15.63	0.0	0.0
1,125.0	0.60	76.40	1,125.0	-1.4	-0.2	0.90	0.48	109.52	0.0	0.0
1,155.0	0.30	60.40	1,155.0	-1.3	0.0	1.07	-1.00	-53.33	0.0	0.0
1,187.0	0.50	211.40	1,187.0	-1.4	0.0	2.43	0.63	471.88	0.0	0.0
1,218.0	0.30	3.40	1,218.0	-1.4	-0.1	2.51	-0.65	490.32	0.0	0.0
1,249.0	0.50	119.40	1,249.0	-1.4	0.0	2.22	0.65	374.19	0.0	0.0
1,357.0	0.20	234.40	1,357.0	-1.8	0.3	0.57	-0.28	106.48	-0.1	-2.4
1,546.0	3.60	149.50	1,545.8	-7.1	3.0	1.90	1.80	-44.92	11.2	-0.9
1,641.0	5.50	144.40	1,640.5	-13.3	7.2	2.04	2.00	-5.37	13.6	0.7
1,829.0	6.10	144.20	1,827.8	-28.8	18.3	0.32	0.32	-0.11	14.1	2.5
2,018.0	5.90	145.10	2,015.5	-44.9	29.7	0.12	-0.11	0.48	14.1	3.9
2,113.0	5.90	144.30	2,110.0	-52.9	35.4	0.09	0.00	-0.84	14.2	4.9
2,302.0	6.00	147.40	2,298.0	-69.1	46.4	0.18	0.05	1.64	14.6	5.4
2,491.0	6.10	148.20	2,486.0	-85.9	57.0	0.07	0.05	0.42	14.5	5.7
2,680.0	6.00	145.90	2,673.9	-102.6	67.8	0.14	-0.05	-1.22	14.1	7.1
2,775.0	5.70	144.80	2,768.4	-110.6	73.3	0.34	-0.32	-1.16	14.2	8.1
2,963.0	6.10	142.20	2,955.4	-126.1	84.8	0.26	0.21	-1.38	14.0	10.7
3,152.0	6.10	137.20	3,143.4	-141.4	97.8	0.28	0.00	-2.65	12.2	15.2
3,340.0	6.60	139.60	3,330.2	-157.0	111.6	0.30	0.27	1.28	11.4	18.4



Midland PVA

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Site:	Dragon 36 State	MD Reference:	KB = 25 @ 3511.0usft (HP 465)
Well:	#301H	North Reference:	Grid
Wallbore:	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)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
3,529.0	7.50	141.70	3,517.8	-174.9	126.3	0.50	0.48	1.11	8.5	21.1
3,717.0	7.20	154.50	3,704.2	-195.2	138.9	0.88	-0.16	6.81	8.7	19.7
3,906.0	6.50	153.40	3,891.9	-215.5	148.8	0.38	-0.37	-0.58	5.5	18.2
4,094.0	6.30	159.90	4,078.7	-234.7	157.1	0.40	-0.11	3.46	5.9	15.1
4,283.0	5.30	159.90	4,266.7	-252.6	163.7	0.53	-0.53	0.00	6.3	11.5
4,471.0	5.00	156.20	4,454.0	-268.2	170.0	0.24	-0.16	-1.97	8.2	9.0
4,660.0	5.70	145.10	4,642.2	-283.5	178.7	0.66	0.37	-5.87	8.5	10.3
4,849.0	6.30	141.80	4,830.1	-299.3	190.5	0.37	0.32	-1.75	7.8	12.9
4,943.0	6.90	141.30	4,923.5	-307.8	197.2	0.84	0.64	-0.53	6.6	14.3
5,114.0	6.40	141.90	5,093.4	-323.3	209.5	0.30	-0.29	0.35	4.6	16.6
5,211.0	6.30	139.30	5,189.8	-331.6	216.3	0.31	-0.10	-2.68	4.5	18.8
5,400.0	9.50	154.40	5,377.0	-353.5	229.8	2.00	1.69	7.99	11.2	17.1
5,588.0	10.60	153.50	5,562.1	-383.0	244.2	0.59	0.59	-0.48	5.9	15.0
5,777.0	10.80	149.60	5,747.8	-413.8	260.9	0.40	0.11	-2.06	-2.3	14.1
5,965.0	9.10	152.30	5,933.0	-442.2	276.8	0.94	-0.90	1.44	-6.3	13.6
6,154.0	8.50	147.10	6,119.7	-467.1	291.3	0.53	-0.32	-2.75	-8.4	12.8
6,343.0	8.80	150.60	6,306.6	-491.5	306.0	0.32	0.16	1.85	-8.0	13.5
6,532.0	8.60	151.00	6,493.4	-516.4	319.9	0.11	-0.11	0.21	-8.5	12.9
6,720.0	8.20	148.40	6,679.4	-540.1	333.8	0.29	-0.21	-1.38	-8.6	12.3
6,909.0	8.10	146.00	6,866.5	-562.7	348.3	0.19	-0.05	-1.27	-7.9	13.1
7,098.0	7.50	142.90	7,053.7	-583.5	363.2	0.39	-0.32	-1.64	-6.4	15.1
7,287.0	6.60	142.20	7,241.3	-602.0	377.3	0.48	-0.48	-0.37	-1.9	18.3
7,476.0	5.90	146.40	7,429.2	-618.6	389.3	0.44	-0.37	2.22	6.6	20.7
7,664.0	2.40	158.80	7,616.7	-630.3	396.1	1.91	-1.86	6.60	16.5	17.7
7,853.0	1.20	180.60	7,805.6	-636.0	397.5	0.72	-0.63	11.53	22.1	8.3
8,042.0	1.10	169.00	7,994.5	-639.8	397.8	0.13	-0.05	-6.14	16.2	12.1
8,231.0	1.20	168.00	8,183.5	-643.5	398.6	0.05	0.05	-0.53	12.2	12.4



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Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
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MD (usft)	Inc (°)	Asl (azimuth) (°)	TVD (usft)	NS (usft)	EW (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
8,420.0	1.40	179.00	8,372.5	-647.7	399.0	0.17	0.11	5.82	10.1	10.2
8,610.0	1.30	167.80	8,562.4	-652.2	399.5	0.15	-0.05	-5.89	3.5	11.5
8,798.0	1.20	159.70	8,750.4	-656.1	400.6	0.11	-0.05	-4.31	-2.3	11.6
8,987.0	1.50	178.70	8,939.3	-680.4	401.4	0.28	0.16	10.05	-2.7	12.3
9,176.0	1.60	183.70	9,128.2	-685.5	401.3	0.09	0.05	2.65	-6.7	12.7
9,364.0	1.80	186.70	9,316.2	-671.1	400.8	0.12	0.11	1.60	-11.6	13.2
9,553.0	0.80	200.30	9,505.1	-675.3	400.0	0.55	-0.53	7.20	-12.4	16.3
9,624.0	0.70	210.90	9,578.1	-676.1	399.6	0.24	-0.14	14.93	-10.1	18.4
9,668.0	0.70	207.80	9,620.1	-676.6	399.3	0.09	0.00	-7.05	-11.6	17.8
9,694.0	1.76	358.93	9,646.1	-676.3	399.2	9.21	4.07	581.28	18.5	-9.9
KOP 9694.0' MD; 9646.1' TVD; -676.3'; 399.2'; 1.76										
9,763.0	8.10	5.30	9,714.8	-670.4	399.6	9.21	9.19	9.23	11.4	-11.8
9,810.0	14.50	2.20	9,760.9	-661.2	400.2	13.67	13.62	-6.60	5.2	-11.6
9,857.0	21.80	2.40	9,805.5	-646.6	400.8	15.53	15.53	0.43	-3.4	-12.3
9,904.0	28.10	359.20	9,848.1	-626.8	401.0	13.70	13.40	-6.81	-13.0	-13.7
9,941.9	31.49	356.77	9,881.0	-608.0	400.3	9.49	6.94	-6.41	-21.3	-14.9
FTP Crossing 9941.9' MD; 9881.0' TVD; -608.0'; 400.3'; 31.49										
9,952.0	32.40	356.20	9,889.5	-602.6	400.0	9.49	9.01	-5.64	-23.5	-15.1
9,999.0	36.10	353.20	9,928.4	-576.3	397.5	8.65	7.87	-6.38	-33.0	-16.1
10,046.0	38.40	352.10	9,965.8	-548.1	393.9	5.09	4.89	-2.34	-41.5	-15.4
10,093.0	39.20	351.60	10,002.4	-519.0	389.7	1.83	1.70	-1.06	-47.5	-13.8
10,141.0	39.30	352.40	10,039.6	-488.9	385.4	1.07	0.21	1.67	-49.8	-11.2
10,188.0	43.40	352.80	10,074.9	-458.1	381.5	8.74	8.72	0.85	-49.4	-9.0
10,236.0	48.50	352.60	10,108.2	-423.9	377.1	10.63	10.62	-0.42	-48.5	-7.0
10,283.0	53.40	352.60	10,137.8	-387.7	372.4	10.43	10.43	0.00	-47.4	-4.8
10,330.0	55.70	353.80	10,165.1	-349.7	367.9	5.39	4.89	2.77	-45.1	-2.3
10,377.0	59.60	354.10	10,190.2	-310.2	363.7	8.31	8.30	0.43	-41.1	-0.8



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10,424.0	63.40	354.30	10,212.7	-269.1	359.6	8.09	8.09	0.43	-36.2	0.5	
10,471.0	66.70	355.10	10,232.5	-226.7	355.6	7.19	7.02	1.70	-30.0	1.5	
10,519.0	71.50	355.70	10,249.6	-182.0	352.0	10.07	10.00	1.25	-23.0	1.9	
10,566.0	75.20	356.70	10,263.1	-137.1	349.1	8.13	7.87	2.13	-15.6	1.6	
10,613.0	79.20	357.40	10,273.5	-91.3	346.7	8.63	8.51	1.49	-7.5	0.6	
10,650.0	83.10	357.80	10,279.2	-54.8	345.2	10.59	10.54	1.08	-1.7	-0.3	
10,708.0	88.70	359.20	10,283.3	3.0	343.7	9.95	9.66	2.41	2.6	-1.3	
10,802.0	91.30	359.30	10,283.3	97.0	342.4	2.77	2.77	0.11	2.9	-1.1	
10,896.0	93.80	358.80	10,279.1	190.9	340.9	2.71	2.66	-0.53	-1.0	-0.3	
10,991.0	90.30	358.60	10,275.7	285.8	338.7	3.69	-3.68	-0.21	-4.2	1.1	
11,085.0	92.30	358.80	10,273.6	379.7	334.9	2.86	2.13	-1.91	-6.1	4.2	
11,179.0	90.70	359.50	10,271.1	473.6	331.9	3.34	-1.70	2.87	-8.3	6.5	
11,274.0	88.00	1.20	10,272.2	568.5	332.5	3.36	-2.84	1.79	-6.9	5.2	
11,368.0	89.40	1.20	10,274.4	662.5	334.5	1.49	1.49	0.00	-4.5	2.5	
11,463.0	91.40	0.20	10,273.7	757.5	335.6	2.35	2.11	-1.05	-4.9	0.6	
11,557.0	89.30	2.40	10,273.1	851.4	337.8	3.24	-2.23	2.34	-5.2	-2.2	
11,651.0	90.50	0.70	10,273.3	945.4	340.3	2.21	1.28	-1.81	-4.8	-5.5	
11,746.0	91.90	358.90	10,271.3	1,040.4	340.0	2.40	1.47	-1.89	-6.2	-5.9	
11,840.0	88.90	358.90	10,270.6	1,134.3	338.2	3.19	-3.19	0.00	-6.0	-4.8	
11,935.0	90.70	358.40	10,271.0	1,229.3	335.9	1.97	1.89	-0.53	-4.8	-3.3	
12,029.0	91.10	0.50	10,269.5	1,323.3	335.0	2.27	0.43	2.23	-5.5	-3.1	
12,124.0	87.80	0.00	10,270.4	1,418.3	335.4	3.51	-3.47	-0.53	-3.7	-4.2	
12,218.0	89.30	359.40	10,272.8	1,512.2	334.9	1.72	1.60	-0.64	-0.5	-4.5	
12,313.0	92.70	359.10	10,271.1	1,607.2	333.7	3.59	3.58	-0.32	-1.3	-3.9	
12,407.0	91.30	0.60	10,267.8	1,701.1	333.5	2.18	-1.49	1.60	-3.7	-4.4	
12,501.0	91.90	359.50	10,265.2	1,795.1	333.5	1.33	0.64	-1.17	-5.5	-5.2	
12,595.0	87.10	358.60	10,266.0	1,889.1	332.0	5.20	-5.11	-0.96	-3.8	-4.4	



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #301H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3511.0usft (HP 465)
Site:	Dragon 36 State	MD Reference:	KB = 25 @ 3511.0usft (HP 465)
Well:	#301H	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)	DLag (*100usft)	Build (*100usft)	Turn (*100usft)	High to Plan (usft)	Right to Plan (usft)
12,783.0	89.30	359.90	10,271.9	2,076.9	329.5	1.36	1.17	0.69	4.3	-3.3
12,877.0	88.70	359.60	10,273.6	2,170.9	329.1	0.71	-0.64	-0.32	7.4	-3.6
12,971.0	90.40	0.50	10,274.3	2,264.9	329.2	2.05	1.81	0.96	9.5	-4.4
13,066.0	91.50	0.50	10,272.8	2,359.9	330.0	1.16	1.16	0.00	9.4	-6.0
13,160.0	92.20	0.10	10,269.7	2,453.8	330.5	0.86	0.74	-0.43	7.7	-7.2
13,255.0	92.60	0.10	10,265.7	2,548.8	330.7	0.42	0.42	0.00	5.2	-8.1
13,349.0	92.10	359.40	10,261.9	2,642.7	330.3	0.91	-0.53	-0.74	2.7	-8.4
13,443.0	92.20	359.90	10,258.4	2,736.6	329.7	0.54	0.11	0.53	0.6	-8.5
13,538.0	92.00	359.70	10,254.9	2,831.5	329.4	0.30	-0.21	-0.21	-1.4	-8.9
13,632.0	91.50	359.40	10,252.0	2,925.5	328.6	0.62	-0.53	-0.32	-2.9	-8.9
13,727.0	91.80	0.00	10,249.3	3,020.5	328.1	0.71	0.32	0.63	-4.1	-9.1
13,821.0	92.20	0.00	10,246.0	3,114.4	328.1	0.43	0.43	0.00	-5.7	-9.8
13,915.0	91.90	359.80	10,242.6	3,208.3	328.0	0.38	-0.32	-0.21	-7.4	-10.4
14,010.0	92.20	359.80	10,239.2	3,303.3	327.6	0.32	0.32	0.00	-9.1	-10.8
14,104.0	91.60	359.30	10,236.1	3,397.2	326.9	0.83	-0.64	-0.53	-10.5	-10.7
14,199.0	91.70	359.40	10,233.4	3,492.2	325.8	0.15	0.11	0.11	-11.5	-10.4
14,293.0	92.20	359.40	10,230.2	3,586.1	324.8	0.53	0.53	0.00	-13.0	-10.1
14,387.0	90.70	358.80	10,227.8	3,680.1	323.4	1.72	-1.60	-0.64	-13.7	-9.4
14,481.0	90.60	359.00	10,226.7	3,774.1	321.6	0.24	-0.11	0.21	-13.1	-8.3
14,576.0	90.50	358.70	10,225.8	3,869.0	319.6	0.33	-0.11	-0.32	-12.3	-7.1
14,669.0	90.20	358.70	10,225.3	3,962.0	317.5	0.32	-0.32	0.00	-11.2	-5.7
14,764.0	89.10	357.80	10,225.8	4,057.0	314.6	1.50	-1.16	-0.95	-8.1	-3.5
14,858.0	89.40	357.80	10,227.1	4,150.9	311.0	0.32	0.32	0.00	-2.2	-0.6
14,952.0	90.70	357.30	10,227.0	4,244.8	307.0	1.48	1.38	-0.53	2.6	2.7
15,046.0	91.40	357.10	10,225.3	4,338.7	302.4	0.77	0.74	-0.21	5.6	6.6
15,117.0	91.70	357.10	10,223.3	4,409.5	298.8	0.42	0.42	0.00	7.4	9.6

Last MWD Survey (MD = 15117.0)



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #301H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3511.0usft (HP 465)
Site:	Dragon 36 State	MD Reference:	KB = 25 @ 3511.0usft (HP 465)
Well:	#301H	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)	Bulld (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
15,174.0	91.70	357.10	10,221.6	4,466.4	295.9	0.00	0.00	0.00	8.6	12.0
Projection to Bit (MD = 15174.0)										

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N-S (usft)	+E-W (usft)	
9,694.0	9,646.1	-676.3	399.2	KOP 9694.0' MD; 9646.1' TVD; -676.3'; 399.2'; 1.76
9,941.9	9,881.0	-608.0	400.3	FTP Crossing 9941.9' MD; 9881.0' TVD; -608.0'; 400.3'; 31.49
15,117.0	10,223.3	4,409.5	298.8	Last MWD Survey (MD = 15117.0)
15,174.0	10,221.6	4,466.4	295.9	Projection to Bit (MD = 15174.0)

Checked By: _____	Approved By: _____	Date: _____
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Lea County, NM (NAD 83 NME)

Dragon 36 State

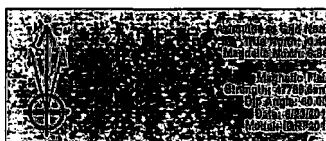
#301H

HP 465

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



To convert a Magnetic Direction to a Grid Direction, Add 6.36°
To convert a Magnetic Direction to a True Direction, Add 6.80° East
To convert a True Direction to a Grid Direction, Subtract 0.43°

WELL DETAILS: #301H

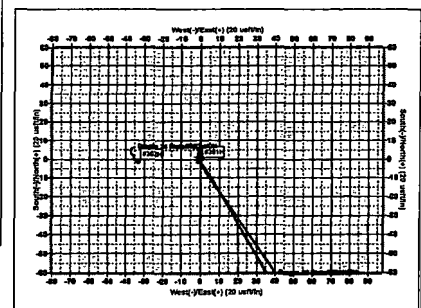
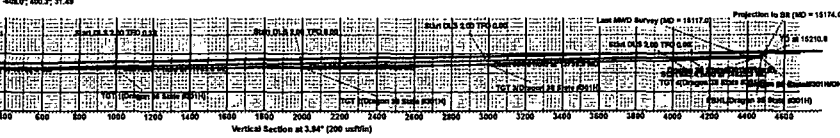
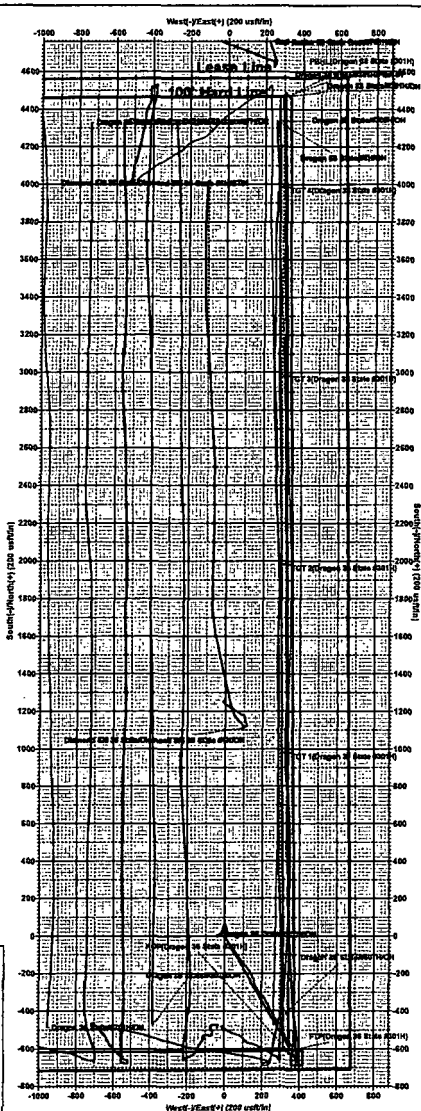
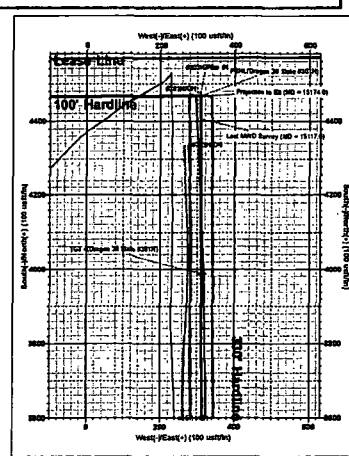
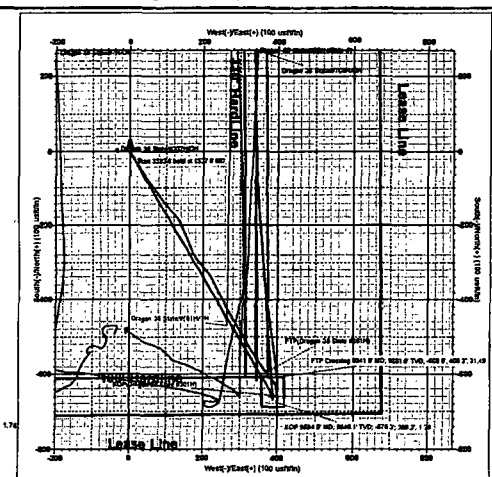
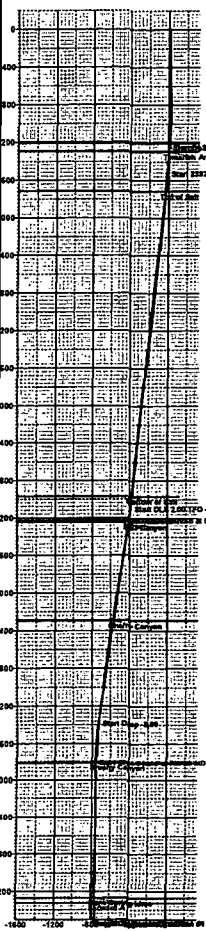
3488.0
KB = 25 @ 3511.0 East (HP 465)
Northing 426079.00 Easting 793102.00 32° 10' 7.510 N Longitude 103° 31' 10.836 W Slot

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	VSect	Target
1	1249.0	0.50	119.40	1249.0	-1.4	0.0	0.00	0.00	-1.4	
2	1527.6	6.00	149.41	1527.1	-14.6	8.5	2.00	32.58	-14.0	
3	5120.3	6.00	149.41	5100.0	-337.8	199.6	0.00	0.00	-323.3	
4	5246.5	8.52	149.39	5225.2	-351.6	207.7	2.00	-0.05	-336.5	
5	7434.8	8.52	149.39	7389.4	-630.8	372.9	0.00	0.00	-603.6	
6	7861.0	0.00	0.00	7814.0	-658.0	389.0	2.00	180.00	-629.7	
7	9755.0	0.00	0.00	9708.0	-658.0	389.0	0.00	0.00	-629.7	KOP(Dragon 36 State #301H)
8	10656.8	90.16	359.79	10261.0	-85.0	346.8	10.00	355.79	-60.9	
9	10782.4	90.16	359.58	10280.6	40.6	341.7	3.00	90.01	64.0	TGT 1(Dragon 36 State #301H)
10	11721.1	90.16	359.58	10278.0	979.3	334.5	0.00	0.00	1000.0	TGT 2(Dragon 36 State #301H)
11	11739.0	90.52	359.58	10277.9	997.2	334.4	2.00	0.38	1017.9	TGT 3(Dragon 36 State #301H)
12	12724.0	90.52	359.58	10269.0	1982.2	326.9	0.00	0.00	2000.0	TGT 4(Dragon 36 State #301H)
13	12741.2	90.86	359.58	10268.8	1999.3	326.8	2.00	0.00	2017.1	
14	13727.1	90.86	359.58	10254.0	2985.1	319.3	0.00	0.00	3000.0	
15	13735.5	91.03	359.58	10253.9	2993.6	319.2	2.00	0.00	3008.4	
16	14730.2	91.03	359.58	10236.0	3968.0	311.7	0.00	0.00	4000.0	
17	14625.3	92.93	359.58	10232.7	4083.1	310.9	2.00	0.00	4094.8	
18	15210.8	92.93	359.58	10213.0	4468.0	308.0	0.00	0.00	4478.6	PBHL(Dragon 36 State #301H)

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N-S	+E-W	Northing	Easting	Shape
KOP(Dragon 36 State #301H)	9708.0	-658.0	389.0	426421.00	783491.00	Polygon
PBHL(Dragon 36 State #301H)	10213.0	4468.0	308.0	430547.00	783410.00	Rectangle (Sides: L0.0 W60.0)
TGT 1(Dragon 36 State #301H)	10280.6	398.0	311.7	430567.00	783413.66	Point
TGT 2(Dragon 36 State #301H)	10278.0	-608.0	347.0	425471.00	783449.00	Point
TGT 3(Dragon 36 State #301H)	10277.9	2985.1	319.3	429064.10	783421.28	Point
TGT 4(Dragon 36 State #301H)	10269.0	1982.2	326.9	429061.20	783420.91	Point
TGT 1(Dragon 36 State #301H)	10278.0	979.3	334.5	427058.30	783438.54	Point



Lea County, NM (NAD 83 NME)
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level