



EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Python 36 State

#745H

OH

Design: OH

Midland PVA

16 May, 2019

HOBBS OCD
SEP 09 2019
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Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #745H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 3546.0usft
Site:	Python 38 State	MD Reference:	KB = 25' @ 3546.0usft
Well:	#745H	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	Python 38 State		
Site Position:		Northing:	425,475.00 usft
From:	Map	Easting:	760,394.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 10' 3.821 N
		Longitude:	103° 37' 31.398 W
		Grid Convergence:	0.38 °

Well	#745H		
Well Position	+N-S	0.0 usft	Northing:
	+E-W	0.0 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Latitude:	32° 10' 3.859 N
		Longitude:	103° 37' 17.008 W
		Ground Level:	3,521.0 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination
	IGRF2015	2/21/2019	6.79
			Dip Angle
			59.98
			Field Strength
			47,725.93606277

Design	OH		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
Vertical Section:	Depth From (TVD)	+N-S	+E-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction
			357.84

Survey Program	Date 5/16/2019		
From	To	Survey (Wellbore)	Tool Name
(usft)	(usft)		Description
184.0	17,858.0	Intrepid MWD (OH)	MWD
			OWSG MWD - Standard



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 ND Reference: KB = 25' @ 3548.0usft
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 Database: EDM 5000.14

Survey

MD (usft)	Inc (")	Azi (azimuth) (")	TVD (usft)	N/S (usft)	EW (usft)	DLog ("/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
184.0	0.44	126.82	184.0	-0.4	0.6	0.24	0.24	0.00	-0.7	0.0
300.0	0.26	155.03	300.0	-0.9	1.0	0.21	-0.16	24.32	-1.3	0.5
387.0	0.35	149.58	387.0	-1.3	1.3	0.11	0.10	-6.26	-1.8	0.4
476.0	0.48	163.21	476.0	-1.9	1.5	0.18	0.15	15.31	-2.3	0.9
565.0	0.66	169.80	565.0	-2.8	1.7	0.21	0.20	7.40	-3.0	1.2
760.0	1.19	185.71	760.0	-5.9	1.7	0.30	0.27	8.16	-5.7	2.3
855.0	1.19	197.31	854.9	-7.8	1.3	0.25	0.00	12.21	-7.1	3.6
850.0	0.88	231.60	949.9	-9.2	0.4	0.71	-0.33	36.09	-5.4	7.5
1,045.0	1.19	265.16	1,044.9	-9.8	-1.1	0.70	0.33	35.33	-1.9	9.6
1,111.0	1.63	255.58	1,110.9	-10.1	-2.7	0.75	0.67	-14.52	-5.1	9.1
1,237.0	1.67	261.03	1,236.8	-10.8	-6.3	0.13	0.03	4.33	-7.7	9.5
1,332.0	2.33	232.20	1,331.8	-12.2	-9.2	1.25	0.69	-30.35	-11.9	2.8
1,427.0	3.65	222.45	1,426.7	-15.6	-12.7	1.48	1.39	-10.28	-11.3	-1.0
1,522.0	4.70	222.80	1,521.4	-20.7	-17.4	1.11	1.11	0.37	-10.7	-2.7
1,617.0	4.40	223.24	1,616.1	-26.2	-22.5	0.32	-0.32	0.46	-10.8	-4.5
1,711.0	5.54	212.34	1,709.7	-32.7	-27.4	1.57	1.21	-11.60	-10.2	-7.6
1,806.0	6.11	207.50	1,804.3	-41.0	-32.2	0.79	0.60	-5.09	-11.4	-8.6
1,900.0	5.98	211.02	1,897.7	-49.7	-37.1	0.42	-0.14	3.74	-14.2	-7.9
1,995.0	6.24	215.15	1,992.2	-58.1	-42.6	0.54	0.27	4.35	-17.1	-7.3
2,090.0	6.29	204.78	2,088.6	-67.1	-47.7	1.19	0.05	-10.92	-18.1	-10.6
2,185.0	6.59	200.47	2,181.0	-76.9	-51.8	0.60	0.32	-4.54	-20.3	-11.2
2,279.0	6.59	201.70	2,274.4	-87.0	-55.7	0.15	0.00	1.31	-23.7	-9.7
2,373.0	6.77	203.72	2,367.8	-97.0	-59.9	0.31	0.19	2.15	-27.4	-8.0
2,468.0	6.55	204.43	2,462.1	-107.1	-64.4	0.25	-0.23	0.75	-30.8	-7.0
2,563.0	6.86	205.66	2,556.5	-117.2	-69.1	0.36	0.33	1.29	-34.3	-5.7
2,658.0	6.86	196.87	2,650.8	-127.7	-73.2	1.10	0.00	-9.25	-36.8	-10.1



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 Wellbore: OH
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 MD Reference: KB = 25' @ 3546.0usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 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)	
2,752.0	7.12	192.74	2,744.1	-138.7	-78.1	0.60	0.28	-4.39	-40.1	-11.0	
2,847.0	5.80	194.76	2,838.5	-149.1	-78.7	1.41	-1.39	2.13	-43.6	-7.5	
2,942.0	5.05	195.48	2,933.1	-157.8	-81.0	0.79	-0.79	0.74	-45.2	-5.1	
3,036.0	4.79	193.00	3,026.7	-165.6	-83.0	0.36	-0.28	-2.62	-45.6	-5.1	
3,132.0	4.82	189.31	3,122.4	-173.6	-84.6	0.35	0.14	-3.84	-46.0	-5.7	
3,227.0	5.36	188.17	3,217.0	-182.0	-85.8	0.48	0.46	-1.20	-47.1	-3.9	
3,321.0	5.23	199.42	3,310.6	-190.4	-87.9	1.11	-0.14	11.97	-48.0	7.5	
3,415.0	5.01	203.81	3,404.2	-196.2	-91.0	0.48	-0.23	4.87	-48.1	12.1	
3,510.0	4.44	206.19	3,498.9	-205.3	-94.3	0.63	-0.60	2.51	-47.6	14.6	
3,605.0	5.93	194.32	3,593.5	-213.3	-97.1	1.92	1.57	-12.49	-50.7	5.8	
3,700.0	5.85	188.67	3,688.0	-222.9	-99.1	0.62	-0.08	-5.95	-53.5	3.0	
3,794.0	4.53	171.47	3,781.6	-231.3	-99.2	2.16	-1.40	-18.30	-54.2	-9.7	
3,889.0	5.19	188.61	3,876.3	-239.2	-99.3	1.67	0.69	18.04	-55.3	10.4	
3,984.0	5.19	191.24	3,970.9	-247.7	-100.8	0.25	0.00	2.77	-55.9	15.5	
4,079.0	3.16	192.83	4,065.7	-254.5	-102.2	2.14	-2.14	1.87	-55.0	19.3	
4,174.0	2.51	180.17	4,160.5	-259.1	-102.8	0.95	-0.68	-13.33	-55.7	10.0	
4,269.0	2.11	127.96	4,255.5	-262.3	-101.4	2.17	-0.42	-54.96	-43.9	-31.9	
4,364.0	4.13	107.04	4,350.3	-264.3	-96.8	2.41	2.13	-22.02	-36.2	-38.5	
4,459.0	2.81	99.84	4,445.1	-265.7	-91.2	1.46	-1.39	-7.58	-39.3	-35.9	
4,554.0	1.49	145.98	4,540.1	-267.2	-88.2	2.19	-1.39	48.57	-52.5	12.0	
4,649.0	2.51	152.57	4,635.0	-270.0	-86.6	1.10	1.07	6.94	-49.8	24.5	
4,744.0	3.52	144.66	4,729.9	-274.3	-83.9	1.15	1.06	-8.33	-54.3	24.1	
4,839.0	0.92	213.66	4,824.8	-277.3	-82.7	3.48	-2.74	72.63	8.9	61.4	
4,934.0	0.79	246.11	4,919.8	-278.1	-83.7	0.55	-0.14	36.26	46.4	41.4	
5,029.0	0.97	227.19	5,014.8	-278.9	-84.9	0.38	0.19	-22.02	31.4	53.7	
5,123.0	0.79	235.19	5,108.8	-279.9	-86.0	0.23	-0.19	8.51	38.2	48.3	
5,217.0	1.05	222.62	5,202.8	-280.9	-87.1	0.35	0.28	-13.37	25.3	55.4	



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5,312.0	0.82	217.52	5,297.8	-282.1	-88.2	0.16	-0.14	-5.37	18.7	57.3
5,406.0	0.88	227.81	5,391.8	-283.2	-89.2	0.18	-0.04	10.95	27.1	53.2
5,501.0	0.82	211.55	5,486.7	-284.3	-90.1	0.27	0.04	-17.12	9.7	58.5
5,595.0	1.19	277.20	5,580.7	-284.8	-91.5	1.24	0.29	69.84	56.0	16.0
5,690.0	1.41	283.44	5,675.7	-284.4	-93.6	0.28	0.23	6.57	55.2	9.9
5,785.0	1.27	288.45	5,770.7	-283.8	-95.7	0.19	-0.15	5.27	53.7	5.1
5,879.0	1.49	287.92	5,864.7	-283.1	-97.9	0.23	0.23	-0.56	51.3	5.6
5,974.0	1.38	279.31	5,959.6	-282.6	-100.2	0.26	-0.14	-9.06	47.6	13.1
6,068.0	1.49	281.42	6,053.6	-282.2	-102.5	0.15	0.14	2.24	45.7	11.3
6,163.0	1.23	277.55	6,148.6	-281.8	-104.7	0.29	-0.27	-4.07	42.6	14.3
6,258.0	1.32	275.97	6,243.5	-281.5	-106.8	0.10	0.09	-1.66	40.0	15.4
6,353.0	1.27	284.76	6,338.5	-281.1	-108.9	0.22	-0.05	9.25	39.8	9.3
6,448.0	1.23	270.96	6,433.5	-280.9	-110.9	0.32	-0.04	-14.53	34.4	18.3
6,543.0	1.23	270.08	6,528.5	-280.8	-113.0	0.02	0.00	-0.93	32.1	18.8
6,638.0	1.41	281.42	6,623.5	-280.6	-115.1	0.33	0.19	11.94	33.0	12.3
6,733.0	1.67	276.41	6,718.4	-280.2	-117.7	0.31	0.27	-5.27	29.2	15.1
6,828.0	1.41	282.39	6,813.4	-279.8	-120.2	0.32	-0.27	6.29	28.1	12.1
6,923.0	1.67	287.31	6,908.3	-279.2	-122.6	0.31	0.27	5.18	26.5	9.7
7,018.0	1.36	274.56	7,003.3	-278.7	-125.1	0.48	-0.33	-13.42	21.2	15.0
7,112.0	1.32	289.95	7,097.3	-278.2	-127.2	0.38	-0.04	16.37	22.2	9.2
7,208.0	1.58	283.09	7,193.3	-277.5	-129.5	0.33	0.27	-7.15	18.6	11.6
7,302.0	1.54	283.62	7,287.2	-276.9	-132.0	0.05	-0.04	0.56	16.1	11.5
7,397.0	1.58	286.08	7,382.2	-276.3	-134.5	0.08	0.04	2.59	14.0	10.8
7,586.0	1.41	272.54	7,571.1	-275.4	-139.4	0.21	-0.09	-7.16	6.2	13.2
7,681.0	1.45	272.28	7,666.1	-275.3	-141.7	0.04	0.04	-0.27	3.8	13.2
7,775.0	1.14	271.14	7,760.1	-275.3	-143.8	0.33	-0.33	-1.21	1.4	13.2
7,870.0	1.05	264.90	7,855.1	-275.3	-145.7	0.16	-0.09	-6.57	-1.8	13.2



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7,965.0	0.88	268.94	7,850.0	-275.4	-147.3	0.19	-0.18	4.25	-2.5	13.4
8,060.0	1.10	271.22	8,045.0	-275.4	-148.9	0.24	0.23	2.40	-3.6	13.5
8,155.0	1.05	269.38	8,140.0	-275.4	-150.7	0.06	-0.05	-1.94	-5.8	13.3
8,250.0	1.05	258.66	8,235.0	-275.6	-152.4	0.21	0.00	-11.28	-9.9	11.9
8,345.0	1.10	238.09	8,330.0	-278.2	-154.0	0.41	0.05	-21.65	-15.2	7.3
8,440.0	1.05	236.77	8,425.0	-277.2	-155.5	0.06	-0.05	-1.39	-17.1	6.9
8,535.0	1.32	236.68	8,519.9	-278.3	-157.2	0.28	0.28	-0.09	-19.1	6.9
8,630.0	1.23	232.46	8,614.9	-278.5	-158.9	0.14	-0.09	-4.44	-21.7	5.4
8,724.0	1.45	242.84	8,708.9	-280.7	-160.8	0.35	0.23	11.04	-22.5	9.4
8,819.0	1.80	242.84	8,803.9	-281.9	-163.2	0.37	0.37	0.00	-25.2	9.4
8,914.0	1.85	245.30	8,898.8	-283.2	-165.9	0.10	0.05	2.59	-27.8	10.6
9,009.0	1.80	241.08	8,993.8	-284.6	-168.6	0.15	-0.05	-4.44	-31.5	8.4
9,104.0	1.87	248.02	9,088.7	-285.8	-171.2	0.26	-0.14	7.31	-33.2	12.3
9,199.0	1.36	258.30	9,183.7	-286.6	-173.5	0.43	-0.33	10.82	-32.9	18.3
9,293.0	1.41	270.87	9,277.7	-288.8	-175.8	0.33	0.05	13.37	-30.4	25.2
9,388.0	1.23	289.77	9,372.6	-286.4	-177.9	0.49	-0.19	19.89	-22.7	34.1
9,483.0	1.89	280.80	9,467.6	-285.8	-180.4	0.74	0.69	-9.44	-30.3	30.0
9,577.0	1.14	19.88	9,561.6	-284.6	-181.6	2.51	-0.80	105.38	33.7	28.8
9,672.0	1.45	5.62	9,656.5	-282.5	-181.2	0.47	0.33	-14.99	23.9	34.0
9,767.0	1.41	329.50	9,751.5	-280.3	-181.7	0.93	-0.04	-38.02	-2.8	40.9
9,862.0	1.27	331.69	9,846.5	-278.4	-182.8	0.16	-0.15	2.31	-3.5	41.0
9,957.0	0.82	231.78	9,941.5	-277.8	-183.7	1.59	-0.68	-105.19	-40.1	-11.5
10,051.0	1.23	220.51	10,035.5	-278.8	-184.7	0.67	0.65	-11.97	-38.6	-19.3
10,147.0	1.10	228.95	10,131.5	-280.2	-186.1	0.22	-0.14	8.79	-43.0	-13.2
10,242.0	1.05	224.91	10,226.4	-281.4	-187.4	0.10	-0.05	-4.25	-43.7	-16.3
10,338.0	1.10	216.91	10,320.4	-282.8	-188.5	0.17	0.05	-8.51	-42.8	-22.3
10,432.0	1.10	41.92	10,418.4	-282.8	-188.5	2.29	0.00	-182.28	44.5	18.4



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10,527.0	1.23	54.13	10,511.4	-281.6	-187.0	0.29	0.14	12.85	45.5	8.8
10,622.0	1.54	89.91	10,606.4	-281.0	-184.9	0.95	0.33	37.66	40.0	-18.9
10,717.0	0.84	142.46	10,701.3	-281.5	-183.2	1.29	-0.74	55.32	7.8	-42.2
10,812.0	1.49	214.71	10,798.3	-283.1	-183.5	1.55	0.68	78.05	-39.2	-19.7
10,907.0	1.54	200.56	10,891.3	-285.3	-184.7	0.40	0.05	-14.89	-35.7	-29.0
11,002.0	1.41	125.85	10,986.3	-287.2	-184.2	1.89	-0.14	-78.64	17.0	-43.3
11,097.0	2.15	110.38	11,081.2	-288.5	-181.5	0.92	0.78	-16.28	25.0	-37.5
11,191.0	2.42	128.82	11,175.2	-290.3	-178.3	0.75	0.29	17.49	9.7	-42.6
11,285.0	2.64	136.22	11,269.1	-293.0	-175.2	0.50	0.23	10.00	-1.5	-43.3
11,380.0	1.58	95.53	11,364.0	-294.7	-172.4	1.87	-1.12	-42.83	24.1	-35.2
11,474.0	1.49	53.61	11,458.0	-294.1	-170.1	1.17	-0.10	-44.60	39.3	-11.0
11,569.0	1.19	10.63	11,552.9	-292.4	-168.9	1.07	-0.32	-45.24	34.3	17.9
11,664.0	0.97	312.88	11,647.9	-290.9	-169.4	1.12	-0.23	-60.79	1.8	37.8
11,759.0	0.66	296.27	11,742.9	-290.1	-170.4	0.41	-0.33	-17.48	-10.4	38.5
11,899.0	0.75	335.91	11,882.9	-288.9	-171.5	0.35	0.06	28.31	13.8	35.2
11,994.0	0.79	338.72	11,977.9	-287.8	-172.0	0.08	0.04	2.96	14.2	34.5
12,089.0	0.84	347.43	12,072.9	-286.5	-172.4	0.14	0.05	9.17	17.9	32.1
12,183.0	0.53	25.75	12,168.9	-285.4	-172.4	0.57	-0.33	40.77	33.0	14.5
12,278.0	0.88	24.43	12,261.9	-284.3	-171.9	0.37	0.37	-1.39	31.5	15.2
12,373.0	1.14	16.17	12,356.9	-282.8	-171.3	0.31	0.27	-8.69	27.3	19.5
12,420.0	3.25	356.83	12,403.9	-281.0	-171.3	4.70	4.49	-41.15	17.5	27.3
12,467.0	5.63	351.73	12,450.7	-277.4	-171.7	5.13	5.06	-10.85	12.5	28.7
12,515.0	8.00	354.54	12,498.3	-271.7	-172.3	4.98	4.94	5.85	13.7	28.7
12,562.0	11.47	358.50	12,544.7	-263.8	-172.8	7.51	7.38	8.43	17.5	28.1
12,604.0	15.65	4.21	12,585.5	-254.0	-172.4	10.44	9.95	13.60	22.8	25.7
12,657.0	20.31	8.52	12,635.9	-237.7	-170.6	9.14	8.79	8.13	28.6	21.5
12,720.0	28.18	9.93	12,693.3	-212.2	-166.4	12.52	12.49	2.24	33.9	16.0



Midland PVA

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Python 36 State
 Well: #745H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #745H
 TVD Reference: KB = 25' @ 3548.0usft
 MD Reference: KB = 25' @ 3548.0usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 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)
12,752.0	34.68	10.28	12,720.6	-195.8	-163.4	20.32	20.31	1.09	35.4	12.7
12,783.0	41.23	11.42	12,745.0	-177.1	-159.8	21.25	21.13	3.68	35.2	8.7
12,815.0	47.96	10.45	12,767.8	-155.0	-155.6	21.14	21.03	-3.03	33.1	5.3
12,846.0	54.07	7.82	12,787.3	-131.3	-151.8	20.78	19.71	-8.48	29.5	2.9
12,898.0	63.56	3.42	12,814.2	-87.0	-147.5	19.63	18.25	-8.46	21.0	0.4
12,939.0	68.62	0.79	12,830.8	-49.6	-146.2	13.66	12.34	-6.41	13.1	-0.6
12,986.0	73.71	358.24	12,846.0	-5.1	-146.6	11.98	10.83	-5.43	4.0	-0.3
13,033.0	74.42	357.80	12,858.9	40.0	-148.1	1.76	1.51	-0.94	-3.0	0.8
13,080.0	74.59	357.97	12,871.4	85.3	-149.8	0.50	0.36	0.36	-5.7	2.2
13,128.0	76.48	358.24	12,883.4	131.7	-151.3	3.97	3.94	0.56	-4.6	3.4
13,181.0	78.81	357.88	12,896.9	193.2	-153.4	3.74	3.70	-0.57	1.9	5.0
13,223.0	82.11	357.88	12,902.2	224.8	-154.6	10.31	10.31	0.00	6.6	6.0
13,255.0	83.74	358.08	12,906.1	256.5	-155.7	5.12	5.09	0.56	10.5	6.9
13,318.0	87.82	358.32	12,910.8	319.3	-157.7	6.49	6.48	0.41	14.9	8.4
13,413.0	87.96	357.01	12,914.3	414.1	-161.6	1.39	0.15	-1.38	18.0	11.5
13,507.0	88.84	358.50	12,916.9	508.0	-165.2	1.84	0.94	1.59	20.2	14.5
13,602.0	88.31	359.47	12,919.3	603.0	-166.9	1.16	-0.56	1.02	22.2	15.5
13,697.0	87.34	359.12	12,922.9	697.9	-168.1	1.09	-1.02	-0.37	25.4	16.0
13,791.0	91.60	0.26	12,923.7	791.9	-168.6	4.69	4.53	1.21	25.8	15.8
13,886.0	91.43	0.96	12,921.2	886.8	-167.6	0.76	-0.18	0.74	22.9	14.1
13,981.0	90.95	1.66	12,919.2	981.8	-165.4	0.89	-0.51	0.74	20.6	11.2
14,075.0	91.30	2.02	12,917.4	1,075.7	-162.4	0.53	0.37	0.38	18.3	7.5
14,170.0	92.00	2.72	12,914.7	1,170.6	-158.5	1.04	0.74	0.74	15.2	2.8
14,265.0	92.13	2.54	12,911.2	1,265.4	-154.1	0.23	0.14	-0.19	11.4	-2.2
14,359.0	91.87	2.02	12,908.0	1,359.3	-150.4	0.82	-0.28	-0.55	7.7	-6.7
14,454.0	90.24	1.22	12,906.2	1,454.3	-147.7	1.91	-1.72	-0.84	5.6	-10.0
14,549.0	89.41	0.87	12,906.5	1,549.2	-146.0	0.95	-0.87	-0.37	5.5	-12.5



Midland PVA

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Python 36 State
 Well: #745H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #745H
 TVD Reference: KB = 25' @ 3546.0usft
 MD Reference: KB = 25' @ 3546.0usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 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)
14,643.0	89.89	1.31	12,907.1	1,643.2	-144.2	0.69	0.51	0.47	5.6	-15.0
14,738.0	88.57	359.38	12,908.4	1,738.2	-143.6	2.46	-1.39	-2.03	6.5	-16.3
14,833.0	89.05	359.73	12,910.3	1,833.2	-144.3	0.63	0.51	0.37	6.1	-16.2
14,928.0	89.45	0.08	12,911.6	1,928.2	-144.5	0.56	0.42	0.37	8.9	-16.8
15,022.0	89.76	0.70	12,912.2	2,022.2	-143.8	0.74	0.33	0.66	9.2	-18.1
15,117.0	90.68	0.61	12,911.9	2,117.2	-142.8	0.97	0.97	-0.09	8.4	-19.9
15,212.0	89.36	359.91	12,911.8	2,212.1	-142.3	1.57	-1.39	-0.74	8.0	-21.0
15,306.0	90.11	0.17	12,912.3	2,306.1	-142.3	0.84	0.80	0.28	8.0	-21.8
15,401.0	89.58	0.96	12,912.5	2,401.1	-141.3	1.00	-0.56	0.83	7.9	-23.4
15,495.0	90.15	359.82	12,912.7	2,495.1	-140.7	1.36	0.61	-1.21	7.7	-24.8
15,590.0	90.42	359.64	12,912.3	2,590.1	-141.1	0.34	0.28	-0.19	7.1	-25.0
15,688.0	89.27	358.94	12,912.5	2,688.1	-142.4	1.37	-1.17	-0.71	7.1	-24.5
15,783.0	92.31	0.08	12,911.2	2,783.1	-143.2	3.42	3.20	1.20	5.6	-24.4
15,877.0	89.23	0.17	12,910.0	2,877.1	-143.0	3.28	-3.28	0.10	4.1	-25.3
15,972.0	87.74	358.24	12,912.5	2,972.0	-144.3	2.57	-1.57	-2.03	6.5	-24.7
16,067.0	88.86	358.15	12,916.9	3,066.9	-147.3	0.93	-0.93	-0.09	10.7	-22.4
16,162.0	86.59	359.03	12,922.4	3,161.7	-149.6	0.97	-0.28	0.93	15.9	-20.8
16,256.0	90.07	358.41	12,925.1	3,255.6	-151.7	3.76	3.70	-0.66	18.5	-19.4
16,351.0	90.42	358.76	12,924.7	3,350.6	-154.0	0.52	0.37	0.37	17.9	-17.8
16,446.0	89.80	358.08	12,924.5	3,445.5	-156.7	0.98	-0.65	-0.74	17.5	-15.8
16,541.0	89.93	358.15	12,924.7	3,540.5	-159.8	0.17	0.14	0.09	17.5	-13.4
16,636.0	89.98	358.24	12,924.8	3,635.4	-162.8	0.11	0.05	0.09	17.4	-11.1
16,730.0	91.03	359.55	12,924.0	3,729.4	-164.6	1.79	1.12	1.39	16.4	-10.0
16,825.0	92.44	0.52	12,921.1	3,824.4	-164.6	1.80	1.48	1.02	13.3	-10.8
16,920.0	89.98	1.31	12,919.1	3,919.3	-163.1	2.72	-2.59	0.83	11.1	-13.0
17,014.0	84.62	358.68	12,923.5	4,013.2	-163.1	6.35	-5.70	-2.80	15.3	-13.7
17,109.0	88.31	359.03	12,929.4	4,108.0	-165.0	3.90	3.88	0.37	21.0	-12.5



Midland PVA

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 Project: Lea County, NM (NAD 83 NME)
 Site: Python 38 State
 Well: #745H
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 TVD Reference: KB = 25' @ 3548.0usft
 MD Reference: KB = 25' @ 3548.0usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM 5000.14

Survey

MD (usft)	Inc (")	Azi (azimuth) (")	TVD (usft)	N/S (usft)	E/W (usft)	DLog ("/100usft)	Build ("/100usft)	Turn ("/100usft)	High to Plan (usft)	Right to Plan (usft)
17,204.0	87.86	359.38	12,932.5	4,202.9	-166.3	0.52	-0.37	0.37	23.9	-11.9
17,288.0	89.58	359.20	12,934.5	4,286.9	-167.4	1.73	1.72	-0.19	25.7	-11.4
17,393.0	89.49	359.73	12,935.3	4,391.9	-168.3	0.57	-0.09	0.56	26.3	-11.2
17,487.0	90.07	0.61	12,935.6	4,485.9	-168.0	1.12	0.62	0.94	26.4	-12.2
17,581.0	90.11	1.14	12,935.5	4,578.9	-168.6	0.57	0.04	0.56	26.1	-14.3
17,676.0	90.42	2.02	12,935.0	4,674.8	-164.0	0.98	0.33	0.93	25.4	-17.6
17,771.0	91.25	2.72	12,933.7	4,769.7	-160.1	1.14	0.87	0.74	23.9	-22.3
17,800.0	91.25	2.72	12,933.0	4,798.7	-158.7	0.00	0.00	0.00	23.2	-23.9
17,858.0	91.25	2.72	12,931.8	4,856.6	-155.9	0.00	0.00	0.00	21.8	-27.0

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/S (usft)	+E/W (usft)	
12,373.0	12,356.9	-282.8	-171.3	KOP, MD:12373.0', TVD:12356.9', N/S:-282.8', E/W:-171.3', INC:1.14
12,720.5	12,693.7	-212.0	-166.3	FTP Crossing, MD:12720.5', TVD:12693.7', N/S:-212.0', E/W:-166.3', INC:28.28
17,800.0	12,933.0	4,798.7	-158.7	Last MWD Survey (MD=17800.0')
17,858.0	12,931.8	4,856.6	-155.9	Projection to Bit (MD=17858.0')

Checked By: _____ Approved By: _____ Date: _____



Lea County, NM (NAD 83 NME)

Python 36 State #745H

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: #745H

KB = 25' @ 3548.0usft 3521.0
Northing 425487.00 Easting 761831.00 Latitude 32° 10' 3.859 N Longitude 103° 37' 17.006 W

SECTION DETAILS

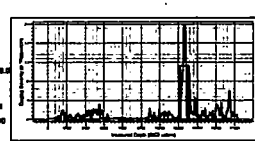
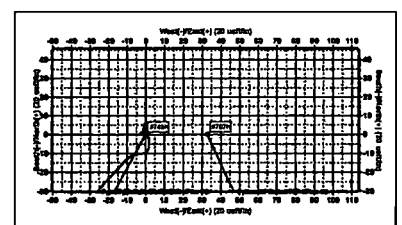
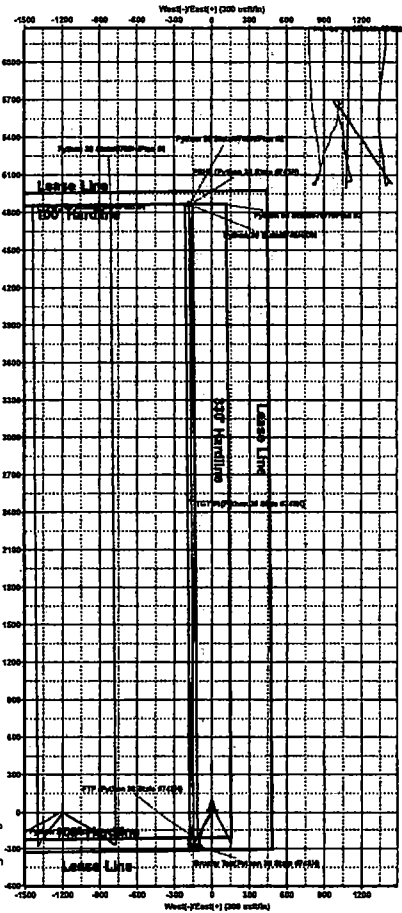
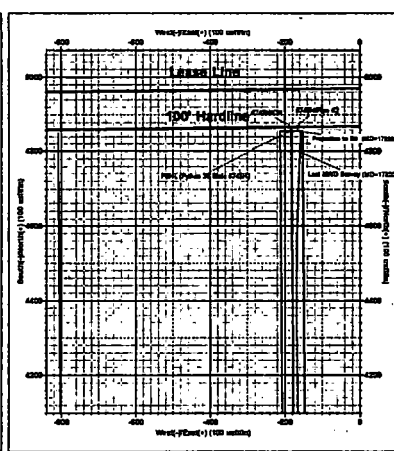
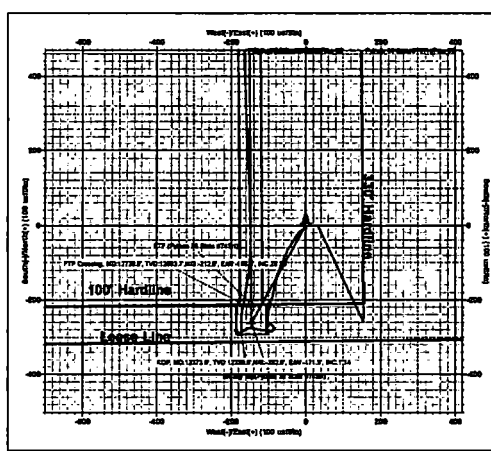
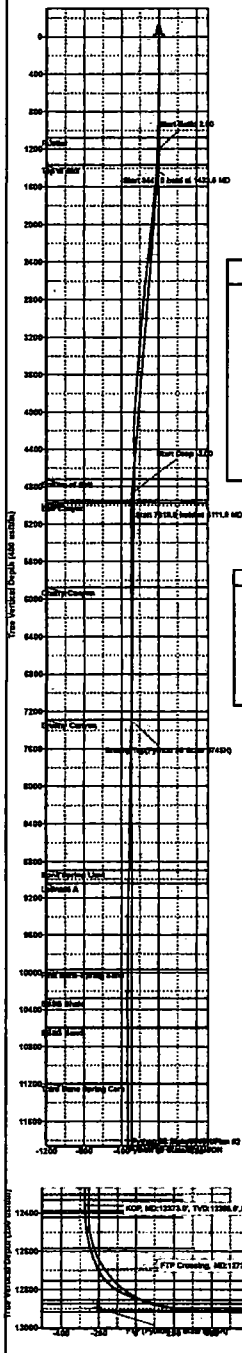
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	V/Sect	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
1200.0	0.00	0.00	1200.0	0.0	0.0	0.00	0.00	0.0	
1433.5	4.87	208.96	1433.2	-8.3	-4.6	2.00	208.96	-8.1	
4878.5	4.87	208.96	4868.8	-253.7	-140.4	0.00	0.00	-248.2	
5111.9	0.00	0.00	5100.0	-262.0	-145.0	2.00	180.00	-256.4	
12429.9	0.00	0.00	12418.0	-262.0	-145.0	0.00	0.00	-256.4	
13178.0	89.76	359.57	12895.5	213.5	-148.5	12.00	359.57	218.9	
15480.1	89.76	359.57	12905.0	2495.5	-165.5	0.00	0.00	2500.0	TGT #1(Python 36 State #745H)
15466.0	89.88	359.57	12905.0	2501.4	-165.5	2.00	0.00	2505.9	
17822.7	89.88	359.57	12910.0	4858.0	-183.0	0.00	0.00	4861.4	PBHL (Python 36 State #745H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP COORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
Brushy Top/Python 36 State #745Q	7289.0	-262.0	-143.0	425228.00	761488.00
FTP (Python 36 State #745Q)	12895.0	-213.5	-143.0	425278.00	761489.00
TGT #1 (Python 36 State #745Q)	12905.0	2495.5	-165.5	427182.00	761445.53
PBHL (Python 36 State #745Q)	12910.0	4858.0	-183.0	430345.00	761448.00



WELLBORE TARGET DETAILS (MAP COORDINATES)