

HOBBS OCD

SEP 09 2019

RECEIVED



EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Python 36 State Com

#743H

OH

Design: OH

Midland PVA

09 June, 2019



Midland PVA

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Python 38 State Com
 Well: #743H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #743H
 TVD Reference: KB = 25' @ 3583.0usft
 MD Reference: KB = 25' @ 3583.0usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM 5000.14

Project: Lea County, NM (NAD 83 NME)
 Map System: US State Plane 1983
 Geo Datum: North American Datum 1983
 Map Zone: New Mexico Eastern Zone

System Datum: Mean Sea Level

Site: Python 38 State Com

Site Position:	From:	Map	Northings:	425,448.00 usft	Latitude:	32° 10' 3.739 N
			Easting:	757,528.00 usft	Longitude:	103° 38' 4.742 W
Position Uncertainty:		0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.37 °

Well: #743H

Well Position	+N-S	0.0 usft	Northings:	425,715.00 usft	Latitude:	32° 10' 8.315 N
	+E-W	0.0 usft	Easting:	758,564.00 usft	Longitude:	103° 37' 52.669 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,558.0 usft

Wellbore: OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	2/21/2019	8.79	59.98	47,725.03530975

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	1.48		

Survey Program: Date 6/9/2019

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
148.0	17,943.0	Drilltech MWD (OH)	MWD	OWSG MWD - Standard



Midland PVA

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Python 38 State Corn
Well: #743H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #743H
TVD Reference: KB = 25' @ 3583.0usft
MD Reference: KB = 25' @ 3583.0usft
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)
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.0	0.0
146.0	1.10	94.30	146.0	-0.1	1.4	0.75	0.75	0.00	-1.4	0.0
235.0	1.50	104.90	235.0	-0.5	3.4	0.52	0.45	11.91	-3.4	0.4
323.0	1.50	112.60	322.9	-1.2	5.6	0.23	0.00	8.75	-5.6	1.0
413.0	1.50	115.80	412.9	-2.2	7.7	0.09	0.00	3.56	-7.9	1.4
504.0	1.20	119.80	503.9	-3.2	9.6	0.35	-0.33	4.51	-9.9	2.0
593.0	0.80	132.10	592.9	-4.0	10.9	0.51	-0.45	13.71	-10.8	4.3
692.0	1.00	145.60	691.9	-5.2	11.9	0.29	0.20	13.64	-11.0	6.8
786.0	0.60	153.00	785.8	-6.3	12.6	0.44	-0.43	7.87	-11.3	8.3
879.0	0.50	167.30	878.8	-7.2	12.9	0.18	-0.11	15.38	-9.8	11.0
973.0	0.40	160.70	972.8	-7.9	13.1	0.12	-0.11	-7.02	-11.8	9.7
1,067.0	0.10	244.30	1,066.8	-8.2	13.1	0.43	-0.32	88.94	8.2	13.1
1,148.0	0.30	208.40	1,147.8	-8.4	12.9	0.28	0.25	-44.32	-1.3	15.4
1,242.0	2.30	195.70	1,241.8	-10.5	12.3	2.14	2.13	-13.51	-8.5	14.5
1,336.0	5.40	179.40	1,335.6	-16.7	11.8	3.46	3.30	-17.34	-13.7	10.8
1,429.0	7.70	168.20	1,428.0	-27.1	13.4	2.94	2.47	-14.19	-20.4	6.3
1,523.0	7.70	165.20	1,521.1	-39.3	16.5	0.14	0.00	-1.06	-24.1	5.7
1,616.0	7.70	167.70	1,613.3	-51.5	19.4	0.36	0.00	2.69	-26.6	6.5
1,710.0	7.60	169.10	1,706.5	-63.7	21.9	0.22	-0.11	1.49	-29.2	6.5
1,803.0	7.50	169.20	1,798.7	-75.7	24.2	0.11	-0.11	0.11	-31.7	5.8
1,896.0	7.50	169.90	1,890.9	-87.7	26.4	0.10	0.00	0.75	-34.1	5.4
1,989.0	7.50	170.60	1,983.1	-99.6	28.5	0.10	0.00	0.75	-36.5	4.8
2,083.0	7.50	171.20	2,076.3	-111.7	30.4	0.08	0.00	0.64	-39.0	4.2
2,177.0	7.50	172.10	2,169.5	-123.9	32.2	0.12	0.00	0.96	-41.5	3.8
2,271.0	7.40	172.90	2,262.7	-136.0	33.8	0.15	-0.11	0.85	-43.9	2.8
2,364.0	7.40	172.70	2,354.9	-147.8	35.3	0.03	0.00	-0.22	-46.3	1.3
2,457.0	7.30	172.60	2,447.1	-159.6	36.8	0.11	-0.11	-0.11	-48.6	-0.2



Midland PVA

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Python 36 State Com
 Well: #743H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #743H
 TVD Reference: KB = 25' @ 3583.0usft
 MD Reference: KB = 25' @ 3583.0usft
 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)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
2,551.0	7.20	171.00	2,540.4	-171.4	38.5	0.24	-0.11	-1.70	-50.6	-2.8
2,645.0	7.40	170.80	2,633.6	-183.2	40.4	0.21	0.21	-0.21	-52.8	-4.0
2,737.0	7.30	170.40	2,724.9	-194.8	42.3	0.12	-0.11	-0.43	-55.0	-5.4
2,831.0	7.10	170.00	2,818.1	-206.4	44.3	0.22	-0.21	-0.43	-57.0	-6.7
2,925.0	7.00	169.30	2,911.4	-217.7	46.4	0.14	-0.11	-0.74	-58.6	-8.3
3,019.0	7.20	169.10	3,004.7	-229.2	48.6	0.21	0.21	-0.21	-60.4	-9.3
3,113.0	7.30	167.90	3,097.9	-240.8	50.9	0.19	0.11	-1.28	-62.3	-11.2
3,206.0	7.50	166.60	3,190.2	-252.5	53.6	0.28	0.22	-1.40	-64.3	-13.1
3,299.0	7.70	166.10	3,282.3	-264.4	56.5	0.23	0.22	-0.54	-66.8	-14.0
3,393.0	7.30	165.30	3,375.5	-276.3	59.5	0.44	-0.43	-0.85	-69.0	-15.1
3,487.0	5.80	159.10	3,468.9	-288.5	62.7	1.76	-1.60	-6.60	-67.9	-22.1
3,580.0	5.20	159.70	3,561.5	-294.9	65.9	0.65	-0.65	0.65	-67.4	-20.5
3,673.0	5.20	163.50	3,654.1	-302.9	68.5	0.37	0.00	4.09	-67.3	-15.6
3,767.0	5.20	140.00	3,747.7	-310.2	72.5	2.25	0.00	-25.00	-54.8	-38.6
3,860.0	4.80	130.30	3,840.4	-315.9	78.1	1.00	-0.43	-10.43	-47.5	-42.5
3,954.0	4.50	130.80	3,934.1	-320.9	83.9	0.32	-0.32	0.53	-47.3	-36.5
4,047.0	4.20	133.10	4,026.8	-325.6	89.2	0.37	-0.32	2.47	-47.5	-29.4
4,234.0	5.00	137.50	4,213.2	-336.3	99.7	0.47	0.43	2.35	-47.1	-16.2
4,327.0	6.80	132.50	4,305.7	-343.0	108.5	2.01	1.94	-5.38	-46.8	-15.5
4,420.0	7.00	145.20	4,398.0	-351.4	113.8	1.65	0.22	13.66	-51.0	-0.4
4,514.0	7.70	142.40	4,491.3	-361.1	120.9	0.84	0.74	-2.98	-53.8	0.6
4,607.0	9.30	143.40	4,583.2	-372.0	129.2	1.73	1.72	1.08	-58.5	5.1
4,701.0	9.20	152.60	4,676.0	-384.8	137.2	1.58	-0.11	9.79	-62.4	17.6
4,793.0	8.00	149.30	4,767.0	-396.8	143.8	1.41	-1.30	-3.59	-67.8	16.1
4,887.0	5.60	154.60	4,860.3	-406.6	149.1	2.64	-2.55	5.64	-67.4	24.6
4,980.0	4.70	156.10	4,952.9	-414.2	152.6	0.98	-0.97	1.61	-65.5	27.9
5,073.0	4.70	180.90	5,045.8	-421.5	154.1	2.17	0.00	26.67	-45.8	51.6



Midland PVA

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Python 35 State Com
 Well: #743H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #743H
 TVD Reference: KB = 25' @ 3583.0usft
 MD Reference: KB = 25' @ 3583.0usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM 5000.14

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	NS (usft)	EW (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
5,166.0	4.70	177.30	5,138.3	-428.1	154.2	0.32	0.00	-3.87	-47.0	48.2
5,259.0	4.70	177.90	5,231.0	-438.7	154.5	0.05	0.00	0.65	-44.7	44.5
5,352.0	4.70	177.00	5,323.7	-444.3	154.9	0.08	0.00	-0.97	-43.5	41.7
5,445.0	4.80	176.50	5,416.4	-451.9	155.3	0.12	-0.11	-0.54	-41.9	39.3
5,538.0	4.80	175.70	5,509.1	-459.3	155.8	0.07	0.00	-0.86	-40.3	36.8
5,631.0	4.80	171.80	5,601.8	-466.9	156.6	0.41	0.22	-4.19	-40.7	32.5
5,725.0	4.80	169.20	5,695.4	-474.7	158.0	0.26	0.11	-2.77	-40.2	29.6
5,818.0	4.50	168.00	5,788.1	-482.2	159.5	0.44	-0.43	-1.29	-38.7	28.1
5,912.0	4.50	166.90	5,881.8	-489.4	161.1	0.09	0.00	-1.17	-36.8	26.9
6,005.0	4.40	165.50	5,974.6	-496.4	162.8	0.16	-0.11	-1.51	-34.9	25.8
6,098.0	3.20	167.80	6,067.4	-502.4	164.2	1.30	-1.29	2.47	-30.3	26.8
6,192.0	2.60	167.90	6,161.2	-507.0	165.2	0.64	-0.64	0.11	-25.2	26.3
6,286.0	1.80	152.40	6,255.2	-510.4	166.4	1.05	-0.85	-16.49	-25.2	20.1
6,381.0	1.80	150.30	6,350.1	-513.1	167.8	0.13	0.11	-2.21	-20.0	21.4
6,474.0	1.80	146.20	6,443.1	-515.7	169.4	0.18	-0.11	-4.41	-18.5	21.8
6,567.0	1.80	152.00	6,536.0	-518.2	170.9	0.20	0.00	6.24	-16.0	24.4
6,661.0	1.00	153.90	6,630.0	-520.2	172.0	0.85	-0.85	2.02	-17.0	25.1
6,755.0	0.50	115.00	6,724.0	-521.1	172.7	0.73	-0.53	-41.38	-30.0	8.3
6,848.0	0.80	206.60	6,817.0	-521.9	172.8	1.03	0.32	98.49	8.5	30.1
6,942.0	0.90	221.40	6,911.0	-523.0	172.0	0.26	0.11	15.74	14.6	27.1
7,035.0	1.10	227.50	7,004.0	-524.2	170.8	0.24	0.22	6.56	15.8	25.5
7,128.0	1.00	220.20	7,096.9	-525.4	169.7	0.18	-0.11	-7.85	10.7	27.2
7,221.0	1.10	208.90	7,189.9	-526.8	168.7	0.25	0.11	-12.15	3.5	28.6
7,315.0	1.20	216.80	7,283.9	-528.4	167.7	0.20	0.11	8.40	5.5	28.0
7,408.0	1.00	229.60	7,376.9	-529.7	166.5	0.34	-0.22	13.76	9.8	26.3
7,502.0	1.10	215.60	7,470.9	-530.9	165.3	0.29	0.11	-14.89	1.4	27.7
7,596.0	1.10	210.50	7,564.9	-532.4	164.3	0.10	0.00	-5.43	-2.8	27.6



Midland PVA

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Python 38 State Corn
 Well: #743H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #743H
 TVD Reference: KB = 25' @ 3583.0usft
 MD Reference: KB = 25' @ 3583.0usft
 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)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
7,691.0	1.10	210.50	7,659.8	-534.0	163.4	0.00	0.00	0.00	-4.6	27.6
7,784.0	1.10	208.80	7,752.8	-535.8	162.5	0.04	0.00	-1.83	-7.2	27.4
7,878.0	1.30	213.60	7,846.8	-537.2	161.5	0.24	0.21	5.11	-6.9	28.0
7,972.0	1.30	222.10	7,940.8	-538.9	160.2	0.20	0.00	9.04	-4.8	28.9
8,066.0	1.40	227.20	8,034.7	-540.5	158.7	0.17	0.11	5.43	-4.4	29.3
8,161.0	1.30	226.30	8,129.7	-542.0	157.0	0.11	-0.11	-0.95	-7.1	29.2
8,254.0	1.40	230.50	8,222.7	-543.5	155.4	0.15	0.11	4.52	-7.1	29.7
8,348.0	1.50	228.90	8,318.7	-545.0	153.6	0.11	0.11	-1.70	-10.4	29.5
8,441.0	1.80	237.70	8,409.6	-546.6	151.4	0.42	0.32	9.46	-8.4	30.9
8,534.0	1.80	234.90	8,502.6	-548.2	149.0	0.09	0.00	-3.01	-12.8	30.4
8,628.0	1.80	237.50	8,596.5	-549.9	146.5	0.09	0.00	2.77	-14.4	31.0
8,721.0	2.00	242.70	8,689.5	-551.4	143.9	0.28	0.22	5.59	-14.6	32.3
8,814.0	2.20	261.20	8,782.4	-552.4	140.7	0.76	0.22	19.89	-6.9	35.8
8,908.0	2.00	261.50	8,876.4	-552.9	137.2	0.21	-0.21	0.32	-10.2	35.8
9,002.0	2.20	288.80	8,970.3	-552.6	133.9	1.07	0.21	29.04	4.1	37.2
9,096.0	2.20	287.50	9,064.2	-551.5	130.5	0.05	0.00	-1.38	-0.3	37.3
9,190.0	2.00	273.00	9,158.2	-550.8	127.1	0.60	-0.21	-15.43	-13.0	35.6
9,283.0	2.50	247.50	9,251.1	-551.5	123.6	1.19	0.54	-27.42	-30.5	25.8
9,376.0	2.20	278.20	9,344.0	-552.0	120.0	1.37	-0.32	33.01	-16.6	38.8
9,470.0	2.30	279.80	9,437.9	-551.5	116.4	0.13	0.11	1.70	-19.2	39.3
9,563.0	1.80	252.30	9,530.9	-551.6	113.1	1.17	-0.54	-29.57	-38.3	25.1
9,656.0	1.80	246.10	9,623.8	-552.6	110.4	0.21	0.00	-6.67	-43.7	20.7
9,749.0	2.60	286.50	9,716.8	-552.6	107.0	1.82	0.66	43.44	-23.1	45.1
9,842.0	2.80	288.20	9,809.7	-551.3	102.9	0.23	0.22	1.83	-26.1	45.8
9,936.0	1.40	295.60	9,903.6	-550.1	98.6	1.51	-1.49	7.87	-23.5	49.1
10,029.0	1.40	218.50	9,996.6	-550.5	97.9	1.88	0.00	-82.90	-54.4	-13.0
10,123.0	2.20	210.70	10,090.5	-552.9	96.3	0.89	0.85	-8.30	-55.1	-20.5



Midland PVA

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Python 38 State Corn
 Well: #743H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #743H
 TVD Reference: KB = 25' @ 3583.0usft
 MD Reference: KB = 25' @ 3583.0usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM 5000.14

Survey

MD (usft)	Inc (")	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	EAW (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
10,216.0	0.50	120.30	10,183.5	-554.7	85.7	2.43	-1.83	-97.20	20.4	-56.8
10,310.0	1.80	57.60	10,277.5	-554.1	97.3	1.74	1.38	-86.70	58.1	-8.2
10,404.0	1.50	38.20	10,371.5	-552.3	99.3	0.67	-0.32	-20.84	55.0	11.1
10,497.0	1.20	21.60	10,464.4	-550.5	100.4	0.53	-0.32	-17.85	47.4	26.0
10,591.0	0.40	331.90	10,558.4	-549.3	100.6	1.05	-0.85	-52.87	9.9	52.2
10,684.0	1.40	14.10	10,651.4	-547.9	100.8	1.22	1.08	45.38	41.0	32.2
10,777.0	2.20	27.50	10,744.4	-545.2	101.9	0.97	0.86	14.41	44.4	22.1
10,871.0	1.80	38.30	10,838.3	-542.4	103.6	0.58	-0.43	11.49	44.5	13.7
10,963.0	1.10	71.80	10,930.3	-541.0	105.3	1.16	-0.76	36.41	42.6	-12.3
11,057.0	1.10	98.50	11,024.3	-540.9	107.1	0.54	0.00	28.40	30.8	-29.8
11,150.0	1.80	50.80	11,117.2	-540.2	109.0	1.27	0.54	-51.29	40.9	2.1
11,244.0	2.10	55.10	11,211.2	-538.4	111.4	0.55	0.53	4.57	37.9	-0.9
11,337.0	1.70	61.00	11,304.1	-536.7	114.0	0.48	-0.43	6.34	34.5	-4.8
11,431.0	1.60	77.30	11,398.1	-535.8	116.5	0.51	-0.11	17.34	29.2	-13.7
11,524.0	1.80	99.50	11,491.1	-535.7	119.2	0.73	0.22	23.87	19.2	-23.2
11,618.0	1.70	103.90	11,585.0	-538.3	122.0	0.18	-0.11	4.68	14.5	-24.5
11,711.0	1.70	102.00	11,678.0	-538.9	124.7	0.06	0.00	-2.04	12.5	-24.1
11,827.0	1.50	110.80	11,793.9	-537.8	127.8	0.27	-0.17	7.59	5.5	-25.4
11,920.0	1.30	117.50	11,886.9	-536.7	129.9	0.28	-0.22	7.20	0.2	-25.8
12,013.0	1.80	120.10	11,979.9	-539.9	132.0	0.33	0.32	2.80	-3.3	-25.7
12,107.0	1.80	106.70	12,073.8	-541.0	134.5	0.47	0.21	-14.28	0.0	-26.1
12,201.0	1.80	113.00	12,167.8	-542.0	137.3	0.21	0.00	6.70	-5.8	-25.7
12,295.0	1.80	129.40	12,261.7	-543.5	139.8	0.55	0.00	17.45	-15.7	-22.6
12,388.0	1.80	136.60	12,354.7	-545.5	141.9	0.24	0.00	7.74	-21.3	-20.3
12,437.0	1.10	170.60	12,403.7	-546.5	142.5	2.20	-1.43	69.39	-30.2	-4.5
12,481.0	2.30	326.70	12,447.7	-546.2	142.1	7.58	2.73	354.77	26.0	16.9
12,524.0	5.80	345.50	12,490.6	-543.3	141.1	8.83	8.37	43.72	31.3	9.0



Midland PVA

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Python 36 State Com
 Well: #743H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #743H
 TVD Reference: KB = 25' @ 3583.0usft
 MD Reference: KB = 25' @ 3583.0usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM 5000.14

Survey

MD (usft)	Inc (°)	Asd (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
12,540.0	6.80	354.70	12,508.5	-541.8	140.8	8.47	5.62	57.50	33.1	4.2
12,561.0	7.50	13.00	12,527.3	-539.0	141.0	11.29	3.33	87.14	34.3	-6.7
12,574.0	7.60	21.10	12,540.2	-537.4	141.5	8.22	0.77	62.31	34.1	-12.3
12,668.0	11.50	26.60	12,632.9	-523.2	147.9	4.26	4.15	5.85	45.3	-27.9
12,713.0	17.30	19.30	12,876.4	-512.8	152.1	13.48	12.89	-18.22	56.9	-28.8
12,762.0	24.80	16.10	12,722.1	-496.1	157.4	15.48	15.31	-6.53	66.4	-32.4
12,809.0	33.20	14.70	12,763.2	-474.1	163.4	17.93	17.87	-2.98	72.7	-37.2
12,824.0	34.80	13.40	12,775.6	-466.0	165.4	11.72	10.67	-8.67	74.6	-37.9
12,856.0	39.00	13.10	12,801.2	-447.3	169.8	13.14	13.12	-0.94	77.3	-41.8
12,886.0	43.00	11.10	12,823.9	-428.0	174.0	14.03	13.33	-6.67	80.4	-43.7
12,916.0	47.70	8.80	12,844.9	-407.0	177.6	16.59	15.67	-7.67	82.9	-44.8
12,949.0	53.10	6.60	12,866.0	-381.8	181.0	17.15	16.36	-6.67	84.4	-45.8
12,996.0	60.90	2.10	12,891.6	-342.6	183.9	18.43	16.60	-9.57	84.8	-44.7
13,042.0	68.30	1.30	12,911.3	-301.1	185.2	16.16	16.09	-1.74	81.2	-45.4
13,089.0	75.10	0.00	12,928.0	-256.5	185.6	14.70	14.47	-2.77	75.6	-45.4
13,123.0	81.60	357.90	12,932.9	-223.2	185.0	20.05	19.12	-6.18	70.1	-44.4
13,142.0	86.30	358.40	12,934.9	-204.3	184.4	24.87	24.74	2.63	65.5	-44.5
13,180.0	91.60	357.90	12,935.6	-166.4	183.2	14.01	13.95	-1.32	55.6	-43.6
13,235.0	92.00	357.90	12,933.9	-111.4	181.2	0.73	0.73	0.00	43.8	-41.4
13,328.0	92.80	358.80	12,929.9	-18.6	178.6	1.45	0.97	1.08	34.8	-39.1
13,421.0	92.00	357.90	12,925.9	74.3	176.0	1.45	-0.97	-1.08	30.6	-36.9
13,515.0	89.50	356.80	12,924.7	168.2	171.5	3.00	-2.66	-1.38	29.1	-32.8
13,608.0	90.00	357.40	12,925.1	261.1	166.6	1.01	0.54	0.86	28.2	-28.4
13,701.0	90.50	357.20	12,924.7	354.0	162.2	0.58	0.54	-0.22	28.4	-24.5
13,795.0	90.70	357.00	12,923.7	447.8	157.5	0.30	0.21	-0.21	27.1	-20.2
13,888.0	91.10	357.20	12,922.2	540.7	152.8	0.48	0.43	0.22	25.4	-15.9
13,982.0	89.60	358.00	12,921.7	634.6	148.8	1.81	-1.60	0.85	24.5	-12.4



Midland PVA

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Python 36 State Com
 Well: #743H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #743H
 TVD Reference: KB = 25' @ 3583.0usft
 MD Reference: KB = 25' @ 3583.0usft
 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)
14,075.0	90.10	358.40	12,921.9	727.6	145.9	0.69	0.54	0.43	24.4	-10.0
14,169.0	90.60	357.60	12,921.3	821.5	142.6	1.00	0.53	-0.85	23.5	-7.2
14,263.0	91.50	357.70	12,919.8	915.4	138.8	0.96	0.96	0.11	21.5	-3.8
14,356.0	91.00	358.00	12,917.6	1,008.3	135.3	0.83	-0.54	0.32	19.2	-0.7
14,450.0	88.70	357.10	12,917.8	1,102.2	131.3	2.63	-2.45	-0.96	19.1	2.8
14,544.0	88.60	357.30	12,920.0	1,196.1	126.7	0.24	-0.11	0.21	21.0	7.0
14,638.0	89.30	0.00	12,921.8	1,290.0	124.5	2.97	0.74	2.87	22.4	8.7
14,732.0	90.00	0.50	12,922.3	1,384.0	124.9	0.92	0.74	0.53	22.7	7.8
14,826.0	90.00	0.70	12,922.3	1,478.0	125.9	0.21	0.00	0.21	22.4	6.4
14,919.0	89.80	0.30	12,922.5	1,571.0	126.7	0.48	-0.22	-0.43	22.4	5.1
15,013.0	91.40	359.80	12,921.5	1,665.0	126.8	1.78	1.70	-0.53	21.2	4.6
15,107.0	89.70	359.70	12,920.6	1,758.0	126.3	1.81	-1.81	-0.11	20.1	4.5
15,201.0	90.60	359.50	12,920.4	1,853.0	125.7	0.98	0.96	-0.21	19.7	4.7
15,294.0	89.20	0.50	12,920.5	1,948.0	125.7	1.85	-1.51	1.08	19.6	4.3
15,388.0	89.50	0.40	12,921.6	2,040.0	126.4	0.34	0.32	-0.11	20.5	3.1
15,481.0	89.30	359.40	12,922.6	2,133.0	126.3	1.10	-0.22	-1.08	21.3	2.8
15,574.0	90.40	359.90	12,922.8	2,226.0	125.7	1.30	1.18	0.54	21.4	2.8
15,668.0	89.30	359.30	12,923.1	2,320.0	125.0	1.33	-1.17	-0.64	21.4	3.1
15,761.0	90.00	359.10	12,923.6	2,413.0	123.7	0.78	0.75	-0.22	21.8	3.9
15,854.0	89.90	358.50	12,923.7	2,506.0	121.8	0.85	-0.11	-0.85	21.7	5.4
15,948.0	91.70	359.20	12,922.4	2,599.9	119.9	2.05	1.91	0.74	20.3	6.9
16,042.0	89.70	0.20	12,921.2	2,693.9	119.4	2.38	-2.13	1.06	19.1	6.9
16,135.0	90.80	1.40	12,920.8	2,788.9	120.7	1.75	1.18	1.29	18.6	5.1
16,229.0	89.20	359.20	12,920.8	2,880.9	121.2	2.89	-1.70	-2.34	18.5	4.2
16,322.0	89.30	359.60	12,922.1	2,973.9	120.2	0.44	0.11	0.43	19.6	4.7
16,415.0	89.70	359.20	12,922.9	3,066.9	119.3	0.61	0.43	-0.43	20.3	5.2
16,509.0	90.90	0.50	12,922.4	3,160.9	119.0	1.88	1.28	1.38	19.7	5.0



Midland PVA

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Python 36 State Corn
 Well: #743H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #743H
 TVD Reference: KB = 25' @ 3583.0usft
 MD Reference: KB = 25' @ 3583.0usft
 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)	DLag (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
16,603.0	89.60	359.40	12,922.0	3,254.9	118.9	1.81	-1.38	-1.17	19.3	4.6
16,696.0	90.70	0.00	12,921.7	3,347.9	118.4	1.35	1.18	0.65	18.9	4.7
16,790.0	89.10	359.70	12,921.9	3,441.8	118.2	1.73	-1.70	-0.32	19.0	4.5
16,884.0	89.60	0.70	12,923.0	3,535.8	118.5	1.19	0.53	1.06	20.0	3.7
16,977.0	90.70	0.20	12,922.7	3,628.8	119.3	1.30	1.18	-0.54	19.6	2.5
17,071.0	90.50	359.80	12,921.7	3,722.8	119.3	0.48	-0.21	-0.43	18.6	2.0
17,164.0	89.20	358.60	12,922.0	3,815.8	118.0	1.80	-1.40	-1.29	18.7	2.9
17,258.0	90.30	359.60	12,922.4	3,909.8	116.5	1.58	1.17	1.06	19.0	3.9
17,351.0	90.70	0.00	12,921.6	4,002.8	116.2	0.81	0.43	0.43	18.1	3.8
17,445.0	90.70	359.70	12,920.4	4,096.8	115.9	0.32	0.00	-0.32	16.9	3.8
17,538.0	90.80	0.50	12,919.2	4,189.8	116.1	0.87	0.11	0.86	15.6	2.9
17,631.0	91.70	0.10	12,917.2	4,282.8	116.6	1.06	0.97	-0.43	13.5	2.0
17,754.0	91.50	1.00	12,913.7	4,405.7	117.7	0.75	-0.16	0.73	9.9	0.2
17,943.0	91.50	1.00	12,908.8	4,594.6	121.0	0.00	0.00	0.00	4.8	-4.0

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N-S (usft)	+E-W (usft)	
12,414.0	12,380.7	-546.0	142.3	KOP, MD:12414.0', TVD:12380.7', N/S:-546.0', E/W:142.3', INC:1.37
12,824.0	12,775.6	-466.0	165.4	FTP Crossing, MD:12824.0', TVD:12775.6', N/S:-466.0', E/W:165.4', INC:34.80
17,754.0	12,913.7	4,405.7	117.7	Last MWD Survey (MD=17754.0')
17,943.0	12,908.8	4,594.6	121.0	Projection to Bit (MD=17943.0')

Checked By: _____ Approved By: _____ Date: _____



Lea County, NM (NAD 83 NME)

Python 36 State Com #743H

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: #743H

KB = 25' @ 3583.0 surf
Northing 425715.00 Easting 758584.00 Latitude 32° 10' 5.315 N Longitude 103° 37' 52.669 W

SECTION DETAILS

Sec	MD	Inc	Adj	TVD	+NW-S	+E-W	Dleg	TFace	VSeal	Target	Annotation
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0		
2	1200.0	0.00	0.00	1200.0	0.0	0.0	0.00	0.00	0.0		
3	1800.1	6.00	164.81	1499.8	-15.1	4.2	2.00	164.81	-15.0		
4	6317.4	6.00	164.81	6290.4	-600.9	137.8	0.00	0.00	-487.2		
6	8817.6	0.00	0.00	8380.0	-518.0	142.0	2.00	180.00	-512.2		
6	12445.0	0.00	0.00	12417.5	-518.0	142.0	0.00	0.00	-512.2		
7	14185.4	89.81	359.72	12950.0	-40.1	128.7	12.00	359.72	-38.6		
8	14735.7	89.81	359.72	12950.0	1437.1	132.2	0.00	0.00	1500.0		TOTW (Python 36 State Com #743H)
9	14734.3	89.88	359.72	12950.0	1600.8	132.2	2.00	0.00	1600.8		TOTW (Python 36 State Com #743H)
10	16731.2	89.88	359.72	12950.0	2407.8	127.3	0.00	0.00	2500.0		PBHL (Python 36 State Com #743H)
11	16734.2	89.88	359.72	12950.0	2500.8	127.3	2.00	0.00	2500.0		
12	17838.8	89.88	359.72	12950.0	4603.0	117.0	0.00	0.00	4604.8		

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+NW-S	+E-W	Northing	Easting
TOTW (Python 36 State Com #743H)	12950.0	1437.1	132.2	427215.10	758584.17
TOTW (Python 36 State Com #743H)	12950.0	2407.8	127.3	425211.00	758581.28
PBHL (Python 36 State Com #743H)	12904.0	4603.0	117.0	425318.00	758581.00
Brantly Top (Python 36 State Com #743H)	7318.0	-518.0	142.0	425185.00	758708.00
FTP (Python 36 State Com #743H)	12985.0	-488.0	142.0	425343.00	758708.00

