



HOBBS OCD
SEP 09 2019
RECEIVED

EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Python 36 State Com

#704H

OH

Design: OH

Midland PVA

02 June, 2019



Midland PVA

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Python 38 State Com
 Well: #704H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #704H
 TVD Reference: KB = 25' @ 3584.0usft
 MD Reference: KB = 25' @ 3584.0usft
 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:		Northing:	425,448.00 usft	Latitude:	32° 10' 3.739 N
From: Map		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 #704H

Well Position	+N-S	0.0 usft	Northing:	425,738.00 usft	Latitude:	32° 10' 6.541 N
	+E-W	0.0 usft	Easting:	758,589.00 usft	Longitude:	103° 37' 52.377 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,559.0 usft

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	2/21/2019	6.79	59.98	47,725.07368229

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	4.89

Survey Program Date 8/2/2019

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
148.0	17,310.0	Dritech MWD (OH)	MWD	OWSG MWD - Standard



Midland PVA

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Python 36 State Cor
 Well: #704H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #704H
 TVD Reference: KB = 25' @ 3584.0usft
 MD Reference: KB = 25' @ 3584.0usft
 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	0.0
148.0	0.50	11.00	148.0	0.6	0.1	0.34	0.34	0.00	-0.6	0.0	
235.0	0.50	340.80	235.0	1.4	0.1	0.29	0.00	-33.93	-1.3	-0.5	
323.0	0.30	333.50	323.0	1.9	-0.2	0.23	-0.23	-8.30	-1.8	-0.7	
413.0	0.30	331.80	413.0	2.4	-0.4	0.01	0.00	-1.89	-2.3	-0.8	
504.0	0.30	1.50	504.0	2.8	-0.5	0.17	0.00	32.64	-2.8	0.8	
593.0	0.10	226.10	593.0	3.0	-0.5	0.42	-0.22	-152.13	1.7	-2.5	
692.0	0.40	234.50	692.0	2.7	-0.9	0.30	0.30	8.48	0.9	-2.7	
786.0	0.40	257.00	786.0	2.5	-1.5	0.17	0.00	23.94	-0.9	-2.7	
879.0	0.40	248.30	879.0	2.3	-2.1	0.07	0.00	-9.35	-1.1	-2.9	
973.0	0.90	252.50	973.0	1.9	-3.1	0.53	0.53	4.47	-2.4	-2.8	
1,067.0	0.60	255.00	1,067.0	1.6	-4.3	0.32	-0.32	2.66	-3.7	-2.6	
1,147.0	0.70	244.60	1,147.0	1.3	-5.1	0.19	0.12	-13.00	-4.1	-3.3	
1,242.0	3.30	172.30	1,241.9	-1.7	-5.3	3.32	2.74	-76.11	-0.7	-5.6	
1,429.0	11.90	150.00	1,427.1	-23.8	5.1	4.78	4.60	-11.93	-14.1	-8.1	
1,523.0	10.00	142.90	1,519.4	-38.7	14.9	2.48	-2.02	-7.55	-21.9	-10.4	
1,616.0	9.50	139.80	1,611.1	-51.0	24.7	0.78	-0.54	-3.33	-26.8	-10.8	
1,709.0	7.00	142.70	1,703.1	-61.4	33.1	2.72	-2.69	3.12	-30.5	-8.4	
1,802.0	6.70	143.70	1,795.4	-70.2	39.7	0.35	-0.32	1.08	-31.4	-7.3	
1,896.0	6.50	144.80	1,888.8	-79.0	46.1	0.25	-0.21	1.17	-32.0	-6.3	
1,989.0	6.00	145.90	1,981.3	-87.3	51.8	0.55	-0.54	1.18	-31.9	-5.5	
2,082.0	5.80	146.60	2,073.8	-85.3	57.1	0.23	-0.22	0.75	-31.3	-5.1	
2,176.0	5.60	147.40	2,167.3	-103.1	62.2	0.23	-0.21	0.85	-30.3	-4.7	
2,270.0	5.40	148.20	2,260.9	-110.8	67.1	0.25	-0.21	-1.28	-28.8	-5.4	
2,364.0	7.70	142.40	2,354.2	-119.3	73.4	2.49	2.45	-4.04	-28.7	-6.9	
2,457.0	8.40	143.60	2,446.3	-129.7	81.3	0.77	0.75	1.29	-31.6	-5.7	
2,550.0	8.50	143.90	2,538.3	-140.7	89.4	0.12	0.11	0.32	-35.1	-5.0	



Midland PVA

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Python 38 State Corn
 Well: #704H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #704H
 TVD Reference: KB = 25' @ 3584.0usft
 MD Reference: KB = 25' @ 3584.0usft
 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)	DLag (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
2,644.0	8.70	144.50	2,631.3	-152.1	97.6	0.23	0.21	0.64	-38.8	-4.2
2,737.0	8.60	143.90	2,723.2	-163.5	105.8	0.14	-0.11	-0.65	-42.5	-4.3
2,831.0	8.40	143.70	2,816.2	-174.7	114.0	0.22	-0.21	-0.21	-46.1	-4.0
2,924.0	8.40	144.20	2,908.2	-185.7	122.0	0.08	0.00	0.54	-49.5	-3.1
3,018.0	8.30	143.50	3,001.2	-196.7	130.0	0.15	-0.11	-0.74	-52.7	-3.3
3,112.0	8.40	144.40	3,094.2	-207.7	138.0	0.16	0.11	0.96	-56.0	-2.0
3,205.0	8.40	144.80	3,186.2	-218.8	145.9	0.06	0.00	0.43	-59.4	-1.3
3,298.0	8.60	144.20	3,278.2	-230.0	153.9	0.24	0.22	-0.65	-62.9	-1.6
3,392.0	8.40	144.80	3,371.1	-241.3	162.0	0.23	-0.21	0.64	-66.4	-0.5
3,486.0	7.90	144.70	3,464.2	-252.2	169.7	0.53	-0.53	-0.11	-69.4	-0.4
3,579.0	6.70	147.30	3,556.4	-262.0	176.3	1.34	-1.29	2.80	-70.9	2.9
3,673.0	6.30	147.10	3,649.8	-270.9	182.0	0.43	-0.43	-0.21	-71.1	2.5
3,767.0	6.50	134.00	3,743.2	-278.9	186.7	1.56	0.21	-13.94	-70.1	-12.5
3,860.0	6.20	122.80	3,835.7	-285.3	186.7	1.36	-0.32	-11.94	-67.1	-22.6
3,953.0	6.80	154.60	3,928.1	-293.0	203.3	3.86	0.65	34.09	-68.7	17.0
4,046.0	6.30	159.50	4,020.5	-302.8	207.4	0.81	-0.54	5.27	-67.6	20.9
4,139.0	5.50	160.10	4,113.0	-311.8	210.7	0.86	-0.86	0.65	-66.9	19.2
4,233.0	5.70	149.30	4,206.6	-320.0	214.6	1.14	0.21	-11.49	-68.0	5.0
4,327.0	6.80	140.00	4,300.0	-328.3	220.6	1.59	1.17	-9.89	-67.8	-5.6
4,420.0	6.80	140.00	4,392.3	-336.7	227.7	0.00	0.00	0.00	-68.6	-4.4
4,514.0	6.70	137.70	4,485.7	-345.0	234.9	0.31	-0.11	-2.45	-69.1	-5.8
4,607.0	8.40	136.50	4,577.9	-354.0	243.3	1.84	1.83	-1.29	-71.1	-5.6
4,700.0	9.80	135.60	4,669.7	-364.6	253.5	1.62	1.61	-0.97	-75.7	-4.9
4,793.0	9.30	129.90	4,761.4	-375.2	264.9	1.21	-0.65	-6.13	-80.5	-10.3
4,887.0	7.40	142.10	4,854.4	-384.8	274.4	2.75	-2.02	12.98	-84.1	9.3
4,980.0	6.00	141.50	4,946.8	-393.3	281.1	1.51	-1.51	-0.65	-84.8	9.2
5,073.0	5.50	140.70	5,039.3	-400.6	287.0	0.54	-0.54	-0.86	-84.0	9.0



Midland PVA

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Python 36 State Corn
 Well: #704H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #704H
 TVD Reference: KB = 25' @ 3584.0usft
 MD Reference: KB = 25' @ 3584.0usft
 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)	DLog (*100usft)	Build (*100usft)	Turn (*100usft)	High to Plan (usft)	Right to Plan (usft)
5,165.0	5.60	139.70	5,130.9	-407.4	282.7	0.15	0.11	-1.09	-82.9	8.6
5,258.0	5.60	139.00	5,223.4	-414.3	288.6	0.07	0.00	-0.75	-81.9	8.9
5,352.0	5.50	137.40	5,317.0	-421.1	304.7	0.20	-0.11	-1.70	-80.9	8.1
5,445.0	5.50	141.60	5,409.6	-427.9	310.4	0.43	0.00	4.52	-78.7	15.2
5,538.0	5.70	148.20	5,502.1	-435.3	315.6	0.72	0.22	7.10	-75.3	24.3
5,631.0	6.20	144.10	5,594.6	-443.3	321.0	0.71	0.54	-4.41	-76.1	18.9
5,724.0	6.20	142.20	5,687.1	-451.3	327.0	0.22	0.00	-2.04	-76.5	17.0
5,818.0	5.80	139.40	5,780.5	-458.9	333.4	0.53	-0.32	-4.04	-77.1	13.0
5,912.0	5.50	150.90	5,874.1	-466.5	338.8	1.38	-0.43	13.30	-71.3	29.5
6,004.0	5.30	155.00	5,965.7	-474.2	342.7	0.47	-0.22	4.46	-67.6	33.3
6,098.0	5.10	152.00	6,059.3	-481.8	346.5	0.36	-0.21	-3.19	-67.4	28.5
6,192.0	4.90	148.10	6,152.9	-488.9	350.6	0.42	-0.21	-4.15	-67.0	23.3
6,286.0	4.70	146.70	6,246.6	-495.5	354.8	0.25	-0.21	-1.49	-65.0	21.5
6,380.0	4.60	141.50	6,340.3	-501.7	359.3	0.46	-0.11	-5.53	-63.9	16.1
6,474.0	4.80	137.30	6,434.0	-507.5	364.3	0.42	0.21	-4.47	-62.3	12.8
6,567.0	3.70	130.80	6,526.7	-512.4	369.2	1.29	-1.18	-8.99	-60.3	8.0
6,661.0	1.70	114.70	6,620.6	-514.9	372.8	2.25	-2.13	-17.13	-55.6	-4.4
6,754.0	2.10	125.90	6,713.6	-516.5	375.4	0.58	0.43	12.04	-48.8	10.3
6,848.0	1.90	125.70	6,807.5	-518.4	378.1	0.21	-0.21	-0.21	-42.4	13.8
6,941.0	1.70	134.30	6,900.5	-520.3	380.3	0.36	-0.22	9.25	-32.7	22.4
7,034.0	1.60	141.40	6,993.4	-522.3	382.1	0.24	-0.11	7.63	-22.1	27.3
7,127.0	1.30	126.60	7,086.4	-523.9	383.8	0.51	-0.32	-15.91	-22.3	23.4
7,221.0	1.00	121.60	7,180.4	-525.0	385.3	0.34	-0.32	-5.32	-20.7	23.7
7,315.0	1.10	126.40	7,274.4	-525.9	386.7	0.14	0.11	5.11	-17.6	28.4
7,408.0	1.20	119.00	7,367.3	-526.9	388.3	0.19	0.11	-7.96	-22.5	24.0
7,502.0	1.60	128.10	7,461.3	-528.2	390.2	0.49	0.43	9.68	-20.7	27.4
7,596.0	1.80	131.10	7,555.3	-529.9	392.2	0.09	0.00	3.19	-21.9	28.5



Midland PVA

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Python 36 State Com
 Well: #704H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #704H
 TVD Reference: KB = 25' @ 3584.0usft
 MD Reference: KB = 25' @ 3584.0usft
 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)	Bulld (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
7,690.0	1.60	126.20	7,649.2	-531.5	394.3	0.15	0.00	-5.21	-26.8	26.4
7,784.0	1.50	126.80	7,743.2	-533.0	396.3	0.11	-0.11	0.84	-29.1	26.7
7,878.0	1.50	131.20	7,837.2	-534.6	398.2	0.12	0.00	4.68	-29.4	29.0
7,972.0	1.70	129.20	7,931.1	-536.3	400.2	0.22	0.21	-2.13	-33.0	27.9
8,066.0	1.60	134.70	8,025.1	-538.1	402.2	0.20	-0.11	5.85	-32.9	31.1
8,160.0	1.50	140.60	8,119.1	-540.0	404.0	0.20	-0.11	6.28	-32.1	34.4
8,253.0	1.50	142.30	8,212.0	-541.9	405.5	0.05	0.00	1.83	-33.5	35.4
8,347.0	1.50	151.20	8,306.0	-543.9	406.8	0.25	0.00	9.47	-30.1	40.3
8,441.0	1.30	156.00	8,400.0	-546.0	407.8	0.25	-0.21	5.11	-28.9	42.8
8,534.0	1.40	161.50	8,492.9	-548.0	408.6	0.18	0.11	5.91	-26.8	45.5
8,628.0	1.40	169.30	8,586.9	-550.2	409.2	0.20	0.00	8.30	-22.7	48.8
8,721.0	1.50	175.00	8,679.9	-552.6	409.5	0.19	0.11	6.13	-20.1	51.0
8,814.0	1.30	184.20	8,772.8	-554.8	409.6	0.32	-0.22	9.89	-13.9	53.7
8,908.0	1.40	205.80	8,866.8	-556.9	409.0	0.55	0.11	22.98	4.7	55.5
9,002.0	1.30	227.30	8,960.8	-558.7	407.7	0.55	-0.11	22.87	22.6	50.3
9,096.0	1.80	243.90	9,054.8	-560.0	405.6	0.71	0.53	17.66	33.5	42.1
9,190.0	2.00	236.00	9,148.7	-561.6	402.9	0.35	0.21	-8.40	24.3	46.1
9,283.0	1.50	285.50	9,241.7	-562.0	400.5	1.92	-0.54	63.98	50.0	3.9
9,376.0	1.30	278.00	9,334.7	-561.3	398.3	0.50	-0.22	-18.82	44.3	18.3
9,470.0	1.50	249.10	9,428.6	-561.6	396.1	0.77	0.21	-30.74	27.7	37.0
9,563.0	1.50	234.00	9,521.6	-562.8	394.0	0.42	0.00	-16.24	14.8	42.6
9,656.0	1.00	240.00	9,614.6	-563.9	392.3	0.56	-0.54	6.45	17.1	40.9
9,749.0	2.30	274.90	9,707.5	-564.1	389.7	1.71	1.40	37.53	34.9	24.3
9,842.0	1.80	277.10	9,800.5	-563.8	388.4	0.54	-0.54	2.37	32.5	23.0
9,936.0	1.60	264.30	9,894.4	-563.7	383.7	0.46	-0.21	-13.62	23.9	29.3
10,029.0	1.80	247.30	9,987.4	-564.4	381.0	0.58	0.22	-18.28	11.6	34.6
10,123.0	1.90	245.40	10,081.3	-565.7	378.2	0.12	0.11	-2.02	7.4	34.9



Midland PVA

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Python 36 State Com
 Well: #704H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #704H
 TVD Reference: KB = 25' @ 3584.0usft
 MD Reference: KB = 25' @ 3584.0usft
 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)	DLog (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
10,216.0	1.50	306.30	10,174.3	-565.6	375.9	1.89	-0.43	65.48	32.1	11.9
10,310.0	1.60	316.70	10,268.3	-563.9	374.0	0.32	0.11	11.08	31.2	6.1
10,404.0	1.40	317.20	10,362.2	-562.1	372.3	0.21	-0.21	0.53	28.8	5.8
10,497.0	1.80	322.60	10,455.2	-560.1	370.8	0.48	0.43	5.81	26.6	3.2
10,591.0	2.00	342.60	10,549.2	-557.4	369.2	0.73	0.21	21.28	23.1	-5.6
10,684.0	1.80	350.90	10,642.1	-554.3	368.5	0.32	-0.11	8.92	18.9	-8.6
10,777.0	1.30	8.40	10,735.1	-551.7	368.4	0.82	-0.65	18.82	12.9	-13.4
10,871.0	0.70	359.50	10,829.1	-550.1	368.6	0.66	-0.64	-9.47	13.2	-11.5
10,963.0	0.80	352.40	10,921.0	-548.9	368.5	0.15	0.11	-7.72	13.3	-9.8
11,150.0	0.40	335.10	11,108.0	-547.0	368.0	0.23	-0.21	-9.25	13.7	-5.8
11,244.0	0.60	263.10	11,202.0	-546.8	367.4	0.85	0.21	-76.60	9.2	11.0
11,337.0	1.60	250.50	11,295.0	-547.3	365.7	1.10	1.08	-13.55	4.8	12.6
11,431.0	3.00	277.00	11,388.9	-547.4	362.0	1.83	1.49	28.19	6.2	9.7
11,524.0	4.00	279.90	11,481.8	-546.6	356.4	1.09	1.08	3.12	1.1	9.5
11,618.0	4.70	266.70	11,575.5	-546.2	349.3	1.29	0.74	-14.04	-8.2	8.8
11,711.0	4.40	272.30	11,668.2	-546.3	342.0	0.58	-0.32	6.02	-14.6	9.9
11,828.0	3.70	270.40	11,764.9	-546.1	333.7	0.61	-0.60	-1.62	-23.2	9.3
11,921.0	3.40	287.20	11,877.7	-546.2	327.9	0.39	-0.32	-3.44	-29.5	7.8
12,014.0	13.00	2.60	11,969.9	-535.8	325.7	14.77	10.32	102.58	1.2	31.4
12,108.0	37.50	2.60	12,054.3	-496.1	327.5	26.08	26.08	0.00	-23.3	33.3
12,201.0	50.60	8.70	12,121.0	-432.0	334.2	14.79	14.09	6.56	-57.3	38.4
12,295.0	49.30	8.90	12,181.5	-360.9	345.2	1.39	-1.38	0.21	-87.6	33.7
12,388.0	45.90	9.40	12,244.2	-293.1	356.1	3.68	-3.66	0.54	-91.3	29.3
12,481.0	52.30	9.00	12,305.0	-223.7	367.4	6.89	6.88	-0.43	-75.4	23.8
12,528.0	64.50	10.20	12,329.6	-184.3	374.0	26.05	25.98	2.55	-66.9	20.5
12,575.0	70.00	9.50	12,347.8	-141.6	381.5	11.78	11.70	-1.49	-60.3	16.6
12,621.0	70.50	9.50	12,363.3	-98.9	388.6	1.09	1.09	0.00	-51.2	13.6



Midland PVA

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Python 38 State Corn
 Well: #704H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #704H
 TVD Reference: KB = 25' @ 3584.0usft
 MD Reference: KB = 25' @ 3584.0usft
 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)
12,868.0	75.40	4.80	12,377.1	-54.4	394.2	14.01	10.43	-9.79	-39.3	12.2
12,715.0	80.40	2.60	12,387.0	-8.5	397.2	11.66	10.84	-4.89	-29.8	12.8
12,762.0	81.00	1.70	12,394.6	37.8	398.9	2.28	1.28	-1.91	-22.5	13.8
12,829.0	81.10	1.80	12,405.0	104.0	401.0	0.21	0.15	0.15	-12.4	13.8
12,856.0	81.20	1.60	12,409.1	130.6	401.7	0.82	0.37	-0.74	-8.4	13.2
12,949.0	86.90	1.70	12,418.8	223.1	404.4	6.13	6.13	0.11	0.5	10.0
13,043.0	87.00	2.60	12,423.8	316.9	407.9	0.96	0.11	0.96	4.9	6.0
13,137.0	87.60	3.70	12,428.2	410.6	413.1	1.33	0.64	1.17	8.7	0.3
13,231.0	89.30	3.00	12,430.7	504.4	418.6	1.96	1.81	-0.74	10.7	-5.6
13,324.0	88.80	359.60	12,432.3	597.4	420.7	3.69	-0.54	-3.66	11.6	-8.2
13,417.0	90.10	1.50	12,433.2	690.3	421.6	2.48	1.40	2.04	11.9	-9.6
13,510.0	90.20	359.10	12,432.9	783.3	422.1	2.58	0.11	-2.58	11.1	-10.6
13,603.0	90.70	359.30	12,432.2	876.3	420.8	0.58	0.54	0.22	9.8	-9.7
13,697.0	90.50	0.00	12,431.2	970.3	420.2	0.77	-0.21	0.74	8.2	-9.6
13,790.0	89.30	359.90	12,431.4	1,063.3	420.1	1.29	-1.29	-0.11	7.9	-10.0
13,884.0	90.00	359.50	12,432.0	1,157.3	419.6	0.86	0.74	-0.43	8.0	-10.0
13,977.0	89.90	1.00	12,432.0	1,250.3	420.0	1.62	-0.11	1.61	7.8	-10.9
14,071.0	89.20	1.00	12,432.8	1,344.3	421.7	0.74	-0.74	0.00	7.9	-13.0
14,165.0	86.50	359.80	12,436.3	1,438.2	422.3	3.14	-2.87	-1.28	11.0	-14.2
14,259.0	90.20	359.60	12,439.0	1,532.1	421.8	3.94	3.94	-0.21	13.2	-14.2
14,352.0	93.40	0.90	12,436.1	1,625.1	422.2	3.71	3.44	1.40	9.8	-15.0
14,446.0	91.90	359.30	12,431.7	1,719.0	422.4	2.33	-1.60	-1.70	5.0	-15.7
14,540.0	90.80	0.80	12,429.5	1,813.0	422.5	1.98	-1.17	1.60	2.3	-16.3
14,633.0	89.70	0.10	12,429.1	1,905.9	423.2	1.40	-1.18	-0.75	1.5	-17.5
14,727.0	87.90	356.40	12,431.1	1,999.9	420.3	4.38	-1.91	-3.94	3.1	-15.1
14,821.0	87.90	356.80	12,434.5	2,093.8	414.6	0.21	0.00	0.21	6.5	-9.8
14,915.0	88.20	355.70	12,437.7	2,187.4	408.3	1.01	0.32	-0.96	9.6	-4.0



Midland PVA

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Python 38 State Corn
 Well: #704H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #704H
 TVD Reference: KB = 25' @ 3584.0usft
 MD Reference: KB = 25' @ 3584.0usft
 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)
15,009.0	88.50	358.70	12,440.4	2,281.1	402.1	1.11	0.32	1.08	12.3	1.7
15,103.0	91.20	358.30	12,440.7	2,375.0	398.0	3.34	2.87	1.70	12.5	5.4
15,197.0	92.90	359.40	12,437.3	2,468.9	396.1	2.15	1.81	1.17	9.1	6.8
15,290.0	91.50	0.60	12,433.8	2,561.8	398.1	1.98	-1.51	1.29	5.5	6.3
15,383.0	90.60	1.00	12,432.1	2,654.8	397.4	1.06	-0.97	0.43	3.8	4.5
15,477.0	89.20	359.10	12,432.2	2,748.8	397.5	2.51	-1.49	-2.02	3.9	3.9
15,570.0	89.60	359.30	12,433.2	2,841.8	396.2	0.48	0.43	0.22	4.8	4.8
15,663.0	89.00	2.50	12,434.3	2,934.8	397.6	3.50	-0.65	3.44	5.9	2.8
15,756.0	86.40	359.10	12,438.1	3,027.7	398.9	4.60	-2.80	-3.66	9.6	1.1
15,850.0	91.00	359.20	12,440.2	3,121.6	397.5	4.89	4.89	0.11	11.7	2.0
15,944.0	91.60	358.80	12,438.1	3,215.6	395.9	0.77	0.64	-0.43	9.6	3.1
16,038.0	91.90	358.00	12,435.2	3,309.5	393.3	0.91	0.32	-0.85	6.7	5.3
16,131.0	91.50	0.00	12,432.4	3,402.4	391.7	2.19	-0.43	2.15	3.9	6.4
16,225.0	89.90	359.90	12,431.3	3,496.4	391.6	1.71	-1.70	-0.11	2.7	6.0
16,317.0	90.70	0.60	12,430.8	3,588.4	392.0	1.16	0.87	0.76	2.2	5.1
16,410.0	88.90	0.40	12,431.1	3,681.4	392.8	1.95	-1.94	-0.22	2.5	3.8
16,504.0	87.70	358.30	12,433.9	3,775.3	391.7	2.57	-1.28	-2.23	5.2	4.4
16,598.0	88.60	359.30	12,436.9	3,869.3	389.8	1.43	0.96	1.06	8.2	5.9
16,721.0	91.20	359.00	12,437.2	3,992.3	387.9	2.13	2.11	-0.24	8.4	7.1
16,785.0	91.20	359.30	12,435.8	4,056.2	387.0	0.47	0.00	0.47	7.0	7.7
16,879.0	91.50	358.70	12,433.6	4,150.2	385.3	0.71	0.32	-0.64	4.8	8.9
16,973.0	91.80	359.30	12,430.9	4,244.1	383.7	0.71	0.32	0.64	2.0	10.0
17,066.0	91.80	0.20	12,428.0	4,337.1	383.3	0.97	0.00	0.97	-0.9	10.0
17,111.0	91.80	0.50	12,426.6	4,382.1	383.6	0.67	0.00	0.67	-2.4	9.5
17,310.0	91.80	0.50	12,420.3	4,581.0	385.3	0.00	0.00	0.00	-8.7	6.7



Midland PVA

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Python 38 State Com
Well: #704H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #704H
TVD Reference: KB = 25' @ 3584.0usft
MD Reference: KB = 25' @ 3584.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.14

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/S (usft)	+E/W (usft)	
11,944.0	11,900.7	-545.6	326.8	KOP, MD:11944.0', TVD:11900.7', N/S:-545.6', E/W:326.8', INC:3.93
12,122.6	12,065.7	-487.0	328.0	FTP Crossing, MD:12122.6', TVD:12065.7', N/S:-487.0', E/W:328.0', INC:39.53
17,111.0	12,426.6	4,382.1	383.6	Last MWD Survey (MD=17111.0')
17,310.0	12,420.3	4,581.0	385.3	Projection to Bit (MD=17310.0')

Checked By: _____ Approved By: _____ Date: _____



Lea County, NM (NAD 83 NME)

Python 36 State Com #704H

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: #704H

KB = 25' @ 2584.0usft 3559.0
Northing 425738.00 Easting 766589.00 Latitude 32° 10' 8.541 N Longitude 103° 37' 52.377 W

To convert a Magnetic Direction to a Grid Direction, Add 0.42°
To convert a Magnetic Direction to a True Direction, Add 8.79° East
To convert a True Direction to a Grid Direction, Subtract 0.37°

SECTION DETAILS

Sec	MD	Inc	Adj	TVD	+N-S	+E-W	Diag	TFace	VSecl	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	1517.3	6.35	146.38	1518.8	-14.8	9.7	2.00	148.39	-13.7		
4	7033.8	6.35	148.38	8399.6	-222.4	347.3	0.00	0.00	-430.8		Brushy Top(Python 36 State Com #704H)
5	7351.1	0.00	0.00	7351.0	-537.0	357.0	2.00	180.00	-504.8		
6	11974.1	0.00	0.00	11938.0	-537.0	357.0	0.00	0.00	-504.8		
7	12721.1	89.64	8.91	12618.5	-45.0	405.0	12.00	6.91	-30.2		
8	12924.8	89.64	359.71	12617.7	138.1	414.8	3.00	-80.05	173.0		
9	13764.8	89.64	359.71	12423.0	969.5	410.8	0.00	0.00	1000.0		TOTR1(Python 36 State Com #704H)
10	13768.8	89.71	359.71	12423.0	972.4	410.8	2.00	-1.23	1003.8		TOTR2(Python 36 State Com #704H)
11	14709.1	89.71	359.71	12428.0	1972.6	405.4	0.00	0.00	2000.0		
12	14772.3	89.58	359.71	12428.0	1825.8	405.3	2.00	0.00	2013.1		
13	17369.5	89.58	359.71	12428.0	4582.0	382.0	0.00	0.00	4598.7		PSH4(Python 36 State Com #704H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N-S	+E-W	Northing	Easting
Brushy Top(Python 36 State Com #704H)	7318.0	-537.0	357.0	425201.00	766948.00
TOTR1(Python 36 State Com #704H)	12423.0	969.5	410.8	426708.00	766298.57
TOTR2(Python 36 State Com #704H)	12428.0	1972.6	405.4	427710.80	765994.41
PSH4(Python 36 State Com #704H)	12428.0	4582.0	382.0	430320.00	765991.00
FTP(Python 36 State Com #704H)	13414.0	-487.0	417.0	425261.00	765006.00

