



EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Python 36 State Com

#703H

OH

Design: OH

Final PVA Report

18 June, 2019

HOBBS OCD
SEP 09 2019
RECEIVED



Final PVA Report

Company: EOG Resources - Midland Project: Lea County, NM (NAD 83 NME) Site: Python 36 State Com Well: #703H Wellbore: OH Design: OH		Local Co-ordinate Reference: Well #703H 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 36 State Com															
Site Position: From: Map Position Uncertainty: 0.0 usft		Northing: 425,448.00 usft Easting: 757,528.00 usft Slot Radius: 13-3/16 " Latitude: 32° 10' 3.739 N Longitude: 103° 38' 4.742 W Grid Convergence: 0.37 °													
Well #703H															
Well Position +N-S 0.0 usft +E-W 0.0 usft Position Uncertainty 0.0 usft		Northing: 425,693.00 usft Easting: 758,540.00 usft Wellhead Elevation: usft Latitude: 32° 10' 6.099 N Longitude: 103° 37' 52.950 W Ground Level: 3,559.0 usft													
Wellbore OH															
<table border="1"> <thead> <tr> <th>Magnetics</th> <th>Model Name</th> <th>Sample Date</th> <th>Declination (°)</th> <th>Dip Angle (°)</th> <th>Field Strength (nT)</th> </tr> </thead> <tbody> <tr> <td></td> <td>IGRF2015</td> <td>2/21/2019</td> <td>6.79</td> <td>59.98</td> <td>47,724.98431050</td> </tr> </tbody> </table>				Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)		IGRF2015	2/21/2019	6.79	59.98	47,724.98431050
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)										
	IGRF2015	2/21/2019	6.79	59.98	47,724.98431050										
Design OH															
Audit Notes: Version: 1.0 Phase: ACTUAL Tie On Depth: 0.0															
<table border="1"> <thead> <tr> <th>Vertical Section:</th> <th>Depth From (TVD) (usft)</th> <th>+N-S (usft)</th> <th>+E-W (usft)</th> <th>Direction (°)</th> </tr> </thead> <tbody> <tr> <td></td> <td>0.0</td> <td>0.0</td> <td>0.0</td> <td>353.65</td> </tr> </tbody> </table>				Vertical Section:	Depth From (TVD) (usft)	+N-S (usft)	+E-W (usft)	Direction (°)		0.0	0.0	0.0	353.65		
Vertical Section:	Depth From (TVD) (usft)	+N-S (usft)	+E-W (usft)	Direction (°)											
	0.0	0.0	0.0	353.65											
Survey Program Date 6/18/2019															
<table border="1"> <thead> <tr> <th>From (usft)</th> <th>To (usft)</th> <th>Survey (Wellbore)</th> <th>Tool Name</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>151.0</td> <td>17,383.0</td> <td>Dritech MWD (OH)</td> <td>MWD</td> <td>OWSG MWD - Standard</td> </tr> </tbody> </table>				From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	151.0	17,383.0	Dritech MWD (OH)	MWD	OWSG MWD - Standard		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description											
151.0	17,383.0	Dritech MWD (OH)	MWD	OWSG MWD - Standard											



Final PVA Report

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Python 36 State Com
 Well: #703H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #703H
 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 (grid_north_azim)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Buflg (°/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
151.0	0.70	271.80	151.0	0.0	-0.9	0.46	0.46	0.00	-0.9	0.0
235.0	0.80	285.10	235.0	0.0	-2.0	0.16	0.12	-7.98	-2.0	-0.2
413.0	0.70	233.80	413.0	-0.8	-4.1	0.23	-0.08	-17.58	-3.8	-1.8
504.0	0.40	238.70	504.0	-1.2	-4.9	0.33	-0.33	5.38	-4.8	-1.5
593.0	0.40	228.70	593.0	-1.6	-5.4	0.08	0.00	-11.24	-5.1	-2.3
786.0	0.70	222.60	786.0	-2.9	-6.7	0.18	0.16	-3.16	-6.7	-2.9
879.0	0.70	229.60	879.0	-3.7	-7.5	0.09	0.00	7.53	-8.1	-2.0
973.0	0.90	255.00	972.9	-4.3	-8.6	0.43	0.21	27.02	-9.4	1.9
1,067.0	1.00	268.60	1,066.9	-4.5	-10.2	0.26	0.11	14.47	-10.3	4.2
1,212.0	1.10	268.70	1,211.9	-4.5	-12.8	0.07	0.07	0.07	-12.9	4.2
1,337.0	3.70	230.40	1,336.8	-7.1	-17.1	2.33	2.08	-30.64	-14.5	-5.8
1,430.0	5.50	218.50	1,429.5	-12.5	-22.2	2.18	1.94	-12.80	-14.4	-8.6
1,524.0	6.00	219.20	1,523.0	-19.9	-28.1	0.54	0.53	0.74	-14.9	-7.6
1,617.0	7.60	218.90	1,615.4	-28.4	-35.1	1.72	1.72	-0.32	-14.8	-6.6
1,711.0	8.80	219.10	1,708.4	-38.9	-43.5	1.28	1.28	0.21	-17.0	-5.5
1,804.0	8.50	219.50	1,800.3	-49.7	-52.4	0.33	-0.32	0.43	-19.9	-4.4
1,897.0	8.40	219.50	1,892.3	-60.2	-61.0	0.11	-0.11	0.00	-22.4	-3.4
1,990.0	8.40	218.60	1,984.3	-70.8	-69.6	0.14	0.00	-0.97	-24.8	-2.8
2,084.0	8.10	218.00	2,077.4	-81.4	-78.0	0.33	-0.32	-0.84	-27.0	-1.8
2,178.0	8.00	219.20	2,170.4	-91.8	-86.2	0.21	-0.11	1.28	-29.0	-0.1
2,272.0	7.70	217.80	2,263.6	-101.7	-94.2	0.39	-0.32	-1.70	-30.6	0.2
2,365.0	7.50	215.60	2,355.7	-111.6	-101.5	0.38	-0.22	-2.15	-31.8	0.7
2,458.0	7.50	215.10	2,447.9	-121.5	-108.5	0.07	0.00	-0.54	-32.9	2.1
2,552.0	7.40	213.30	2,541.1	-131.8	-115.4	0.27	-0.11	-1.91	-34.0	3.1
2,738.0	7.70	230.60	2,725.6	-149.5	-131.6	1.23	0.16	9.30	-33.3	14.1
2,832.0	7.50	229.40	2,818.7	-157.5	-141.1	0.27	-0.21	-1.28	-34.7	12.3



Final PVA Report

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Python 36 State Com
Well: #703H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #703H
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 (grid_north_azim)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg ("/100usft)	Build ("/100usft)	Turn ("/100usft)	High to Plan (usft)	Right to Plan (usft)
2,926.0	7.50	228.30	2,911.9	-165.5	-150.3	0.15	0.00	-1.17	-35.9	10.7
3,113.0	7.10	227.00	3,097.4	-161.5	-167.9	0.23	-0.21	-0.70	-37.5	8.6
3,207.0	7.00	226.50	3,190.7	-189.4	-176.3	0.12	-0.11	-0.53	-37.8	7.8
3,300.0	6.90	224.60	3,283.0	-197.3	-184.3	0.27	-0.11	-2.04	-38.1	6.3
3,394.0	7.90	236.70	3,376.2	-204.9	-193.7	1.96	1.06	12.87	-38.8	12.9
3,487.0	8.10	244.30	3,468.3	-211.2	-204.9	1.16	0.22	8.17	-37.2	14.6
3,581.0	7.50	242.40	3,561.5	-217.0	-216.3	0.69	-0.64	-2.02	-39.7	9.7
3,674.0	6.40	242.60	3,653.8	-222.2	-226.3	1.18	-1.18	0.22	-40.3	6.3
3,768.0	4.60	239.60	3,747.3	-226.5	-234.2	1.94	-1.91	-3.19	-38.6	1.0
3,861.0	5.40	239.30	3,840.0	-230.6	-241.2	0.86	0.86	-0.32	-35.9	-2.1
3,955.0	7.10	241.30	3,933.4	-235.6	-250.1	1.82	1.81	2.13	-35.3	-4.0
4,048.0	6.60	242.90	4,025.8	-240.8	-259.9	0.58	-0.54	1.72	-35.9	-6.4
4,141.0	6.60	244.70	4,118.1	-245.8	-269.5	0.22	0.00	1.94	-36.3	-9.0
4,235.0	6.10	226.50	4,211.8	-251.3	-278.0	2.20	-0.53	-19.36	-30.5	-21.9
4,328.0	6.40	206.20	4,304.0	-259.4	-283.9	2.39	0.32	-21.83	-20.2	-29.3
4,421.0	5.80	204.00	4,396.5	-268.3	-288.1	0.69	-0.65	-2.37	-18.5	-26.4
4,515.0	5.70	194.50	4,490.0	-277.2	-291.2	1.02	-0.11	-10.11	-13.4	-24.2
4,608.0	6.20	181.20	4,582.5	-286.6	-292.4	1.57	0.54	-14.30	-8.9	-20.0
4,701.0	7.50	186.80	4,674.9	-297.7	-293.3	1.57	1.40	6.02	-12.9	-11.7
4,794.0	7.10	199.40	4,767.1	-309.1	-295.9	1.77	-0.43	13.55	-16.7	-2.6
4,888.0	6.20	212.50	4,860.5	-318.9	-300.5	1.87	-0.96	13.94	-16.5	4.8
4,981.0	5.50	221.80	4,953.0	-326.5	-306.2	1.26	-0.75	10.00	-13.7	8.7
5,074.0	4.80	223.80	5,045.6	-332.7	-311.9	0.67	-0.65	2.15	-10.6	9.5
5,167.0	6.10	223.60	5,138.2	-339.1	-318.1	1.29	1.29	-0.22	-8.4	9.6
5,260.0	5.90	222.40	5,230.7	-346.2	-324.7	0.25	-0.22	-1.29	-7.1	9.7
5,353.0	6.70	227.30	5,323.1	-353.4	-331.9	1.04	0.86	5.27	-5.3	10.1
5,446.0	6.40	230.80	5,415.5	-360.4	-339.9	0.54	-0.32	3.76	-4.1	9.5



Final PVA Report

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Python 36 State Com
Well: #703H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #703H
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 (grid_north_azim)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
5,539.0	6.40	230.90	5,508.0	-366.9	-348.0	0.01	0.00	0.11	-3.3	8.2
5,632.0	6.40	229.90	5,600.4	-373.5	-356.0	0.12	0.00	-1.08	-2.7	7.0
5,726.0	6.40	227.20	5,693.8	-380.5	-363.8	0.32	0.00	-2.87	-2.2	6.0
5,819.0	6.00	227.90	5,786.2	-387.2	-371.2	0.44	-0.43	0.75	-1.0	5.4
5,913.0	5.80	227.20	5,879.7	-393.8	-378.4	0.23	-0.21	-0.74	0.6	4.8
6,006.0	6.80	233.90	5,972.2	-400.2	-386.3	1.33	1.08	7.20	2.0	3.4
6,099.0	7.50	213.50	6,064.5	-408.5	-394.1	2.82	0.75	-21.94	0.5	4.1
6,193.0	6.90	238.00	6,157.8	-416.8	-402.2	3.30	-0.64	26.06	1.9	3.4
6,381.0	6.40	237.00	6,344.5	-428.3	-420.6	0.27	-0.27	-0.53	2.2	-1.7
6,568.0	6.20	237.00	6,530.4	-439.5	-437.8	0.11	-0.11	0.00	3.6	-6.7
6,756.0	4.40	243.90	6,717.5	-448.2	-452.8	1.01	-0.96	3.67	6.9	-13.4
6,848.0	3.80	237.30	6,809.3	-451.4	-458.5	0.83	-0.65	-7.17	12.6	-15.4
6,943.0	2.60	235.70	6,904.2	-454.3	-463.0	1.27	-1.26	-1.68	18.9	-17.4
7,036.0	3.00	212.90	6,997.1	-457.5	-466.0	1.26	0.43	-24.52	30.7	-7.4
7,129.0	1.30	194.10	7,090.0	-460.6	-467.6	1.98	-1.83	-20.22	35.8	6.6
7,222.0	1.00	173.60	7,183.0	-462.4	-467.8	0.54	-0.32	-22.04	33.1	22.8
7,316.0	0.90	188.70	7,277.0	-464.0	-467.8	0.29	-0.11	16.06	38.6	15.4
7,353.6	0.82	188.22	7,314.5	-464.5	-467.9	0.22	-0.22	-1.29	38.1	15.8
Brushy Top(Python 36 State Com #703H)										
7,409.0	0.70	187.30	7,369.9	-465.3	-468.0	0.22	-0.21	-1.65	37.1	16.4
7,503.0	1.00	191.60	7,463.9	-466.6	-468.2	0.33	0.32	4.57	36.9	13.7
7,597.0	0.90	175.00	7,557.9	-468.2	-468.3	0.31	-0.11	-17.66	29.9	23.4
7,692.0	1.00	176.20	7,652.9	-469.7	-468.2	0.11	0.11	1.26	28.8	22.8
7,785.0	0.90	180.00	7,745.9	-471.3	-468.1	0.13	-0.11	4.09	28.7	20.9
7,879.0	1.10	165.20	7,839.9	-472.9	-467.9	0.35	0.21	-15.74	20.8	27.3
7,973.0	0.90	179.50	7,933.9	-474.5	-467.7	0.34	-0.21	15.21	25.3	21.6
8,067.0	0.80	188.80	8,027.9	-475.9	-467.8	0.18	-0.11	9.89	27.1	17.3



Final PVA Report

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Python 36 State Com
Well: #703H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #703H
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 (grid_north_azim)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
8,161.0	0.80	188.60	8,121.8	-477.2	-468.0	0.00	0.00	-0.21	25.7	17.4
8,255.0	0.90	196.30	8,215.8	-478.5	-468.3	0.16	0.11	8.19	26.4	13.9
8,348.0	1.00	207.60	8,308.8	-480.0	-468.8	0.23	0.11	12.15	27.1	8.6
8,442.0	1.20	217.40	8,402.8	-481.5	-469.8	0.29	0.21	10.43	26.4	4.0
8,535.0	1.40	210.70	8,495.8	-483.2	-471.0	0.27	0.22	-7.20	23.6	6.9
8,722.0	1.70	213.30	8,682.7	-487.5	-473.7	0.16	0.16	1.39	18.8	5.9
8,815.0	1.90	217.40	8,775.7	-489.9	-475.4	0.26	0.22	4.41	16.3	4.7
8,909.0	1.90	218.80	8,869.6	-492.3	-477.3	0.05	0.00	1.49	13.3	4.3
9,003.0	2.20	219.40	8,963.6	-494.9	-479.4	0.32	0.32	0.64	10.0	4.2
9,097.0	2.60	214.80	9,057.5	-498.1	-481.8	0.47	0.43	-4.79	5.7	4.8
9,191.0	1.40	201.90	9,151.4	-500.9	-483.4	1.36	-1.28	-13.83	1.2	5.5
9,284.0	2.20	200.90	9,244.4	-503.6	-484.5	0.86	0.86	-1.08	-1.8	5.5
9,377.0	1.20	225.10	9,337.3	-506.0	-485.8	1.30	-1.08	26.02	-2.0	6.5
9,471.0	1.10	268.60	9,431.3	-506.7	-487.4	0.91	-0.11	48.28	1.4	6.7
9,564.0	1.60	287.70	9,524.3	-506.8	-489.6	0.54	0.54	-0.97	-0.9	6.7
9,657.0	0.50	304.70	9,617.3	-506.6	-491.2	1.33	-1.18	39.78	1.9	6.7
9,750.0	1.10	280.90	9,710.3	-506.2	-492.5	0.72	0.65	-25.59	-2.2	6.7
9,937.0	1.50	302.70	9,897.2	-504.5	-496.3	0.34	0.21	11.66	-3.7	7.7
10,030.0	1.20	322.70	9,990.2	-503.1	-497.9	0.60	-0.32	21.51	-2.9	9.0
10,124.0	1.40	324.80	10,084.2	-501.4	-499.2	0.22	0.21	2.34	-4.7	9.1
10,217.0	1.30	323.60	10,177.1	-499.6	-500.4	0.11	-0.11	-1.40	-7.1	9.0
10,311.0	0.60	101.80	10,271.1	-498.8	-500.6	1.91	-0.74	147.02	11.6	-1.2
10,405.0	0.60	112.90	10,365.1	-499.1	-499.6	0.12	0.00	11.81	10.1	-3.3
10,498.0	0.80	120.50	10,458.1	-499.6	-498.6	0.24	0.22	8.17	8.5	-4.6
10,592.0	0.80	215.00	10,552.1	-500.5	-498.4	1.25	0.00	100.53	-5.8	-7.4
10,685.0	1.30	222.10	10,645.1	-501.8	-499.5	0.55	0.54	7.63	-8.4	-6.6
10,872.0	1.50	250.60	10,832.0	-504.2	-503.3	0.38	0.11	15.24	-14.9	-0.8



Final PVA Report

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #703H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 3584.0usft
Site:	Python 36 State Com	MD Reference:	KB = 25' @ 3584.0usft
Well:	#703H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Survey											
MD (usft)	Inc (")	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg ("/100usft)	Build ("/100usft)	Turn ("/100usft)	High to Plan (usft)	Right to Plan (usft)	
11,058.0	0.80	205.80	11,018.0	-506.3	-506.2	0.58	-0.32	-24.09	-13.2	-12.7	
11,245.0	1.10	209.70	11,205.0	-509.2	-507.7	0.11	0.11	2.09	-17.3	-11.7	
11,338.0	1.80	213.60	11,297.9	-511.2	-509.0	0.76	0.75	4.19	-20.4	-10.4	
11,432.0	2.40	239.60	11,391.9	-513.4	-511.5	1.18	0.64	27.66	-26.2	0.2	
11,525.0	2.00	250.70	11,484.8	-515.0	-514.7	0.83	-0.43	11.94	-29.2	5.6	
11,706.0	3.30	244.10	11,665.6	-518.3	-522.4	0.74	0.72	-3.65	-38.0	1.9	
11,828.0	3.10	248.80	11,787.4	-521.0	-528.6	0.27	-0.16	3.85	-44.5	5.3	
11,921.0	3.20	245.40	11,880.3	-523.0	-533.3	0.23	0.11	-3.66	-49.9	2.5	
12,014.0	12.30	23.30	11,972.7	-514.9	-531.7	15.94	9.78	148.28	31.6	33.1	
12,061.0	21.40	24.10	12,017.6	-502.5	-526.2	19.37	19.38	1.70	22.9	30.8	
12,108.0	27.20	18.90	12,060.4	-484.5	-519.3	13.14	12.34	-11.06	9.5	28.6	
12,175.2	32.61	14.50	12,118.7	-452.4	-509.7	8.68	8.05	-6.54	-5.9	22.4	
HL Crossing, MD:12175.2, TVD:12118.7, N/S:-452.4, E/W:-509.7, INC:32.61											
12,202.0	34.80	13.10	12,141.0	-438.0	-506.2	8.68	8.18	-5.24	-10.9	19.5	
12,295.0	43.00	10.80	12,213.3	-380.9	-484.2	8.95	8.82	-2.47	-23.8	8.3	
12,385.4	48.48	10.81	12,276.3	-317.3	-482.2	6.07	6.06	-0.21	-28.4	-4.1	
FTP (Python 36 State Com #703H)											
12,389.0	48.70	10.60	12,278.7	-314.6	-481.7	6.07	6.06	-0.19	-28.4	-4.7	
12,481.0	57.30	8.80	12,334.0	-242.2	-469.4	9.48	9.35	-1.96	-25.0	-18.8	
12,575.0	66.70	8.00	12,378.1	-160.2	-457.3	10.03	10.00	-0.85	-16.8	-32.5	
12,627.0	78.00	3.30	12,393.9	-111.0	-452.5	23.37	21.73	-9.04	-12.2	-38.2	
12,674.0	87.10	357.10	12,400.0	-84.5	-452.4	23.36	19.38	-13.19	-12.1	-38.8	
12,768.0	89.30	356.90	12,402.9	29.3	-457.3	2.35	2.34	-0.21	-11.4	-34.3	
12,862.0	88.70	357.30	12,404.6	123.2	-462.0	0.77	-0.64	0.43	-10.2	-30.0	
12,955.0	90.20	357.90	12,405.5	216.1	-465.9	1.74	1.61	0.65	-9.8	-26.6	
13,048.0	87.10	356.20	12,407.6	309.0	-470.7	3.80	-3.33	-1.83	-8.1	-22.2	
13,143.0	87.70	356.50	12,412.0	403.7	-476.8	0.71	0.63	0.32	-4.2	-16.7	



Final PVA Report

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #703H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 3584.0usft
Site:	Python 36 State Com	MD Reference:	KB = 25' @ 3584.0usft
Well:	#703H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Survey											
MD (usft)	Inc (°)	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	EW (usft)	DLog (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
13,236.0	88.80	355.90	12,416.4	488.4	-482.9	1.16	-0.97	-0.65	-0.2	-10.9	
13,329.0	88.00	358.00	12,420.6	589.1	-487.9	2.60	1.29	2.26	3.5	-6.5	
13,423.0	88.10	357.40	12,423.8	683.0	-491.6	0.65	0.11	-0.64	6.2	-3.1	
13,516.0	88.30	357.70	12,426.8	775.9	-495.6	0.39	0.22	0.32	8.6	0.4	
13,609.0	89.30	358.80	12,428.7	868.8	-498.4	1.60	1.08	1.18	10.1	2.8	
13,691.2	90.80	359.24	12,428.6	951.0	-499.9	1.91	1.83	0.54	9.6	3.8	
TGT#1(Python 36 State Com #703H)											
13,702.0	91.00	359.30	12,428.5	961.8	-500.0	1.91	1.83	0.54	9.4	3.9	
13,796.0	91.70	359.80	12,426.2	1,055.7	-500.7	0.82	0.74	0.53	7.0	4.1	
13,890.0	90.10	359.00	12,424.8	1,149.7	-501.7	1.90	-1.70	-0.85	5.4	4.7	
13,983.0	87.80	358.30	12,426.5	1,242.7	-503.9	2.58	-2.47	-0.75	6.9	6.4	
14,077.0	88.10	358.60	12,429.8	1,336.8	-506.4	0.45	0.32	0.32	10.1	8.5	
14,171.0	88.10	357.80	12,432.9	1,430.5	-509.4	0.85	0.00	-0.85	13.0	11.0	
14,264.0	88.70	358.40	12,435.5	1,523.4	-512.5	0.91	0.65	0.65	15.4	13.6	
14,358.0	89.80	358.60	12,438.7	1,617.4	-514.9	1.29	1.28	0.21	16.4	15.6	
14,452.0	90.90	359.80	12,436.0	1,711.3	-516.2	1.66	1.06	1.28	15.5	16.5	
14,545.0	93.50	1.30	12,432.5	1,804.3	-515.4	3.23	2.80	1.61	11.7	15.1	
14,639.0	91.60	1.10	12,428.3	1,888.1	-513.4	2.03	-2.02	-0.21	7.4	12.7	
14,697.2	89.12	358.50	12,427.9	1,956.3	-513.6	6.17	-4.26	-4.47	6.9	12.6	
TGT#2(Python 36 State Com #703H)											
14,733.0	87.60	356.90	12,428.9	1,992.1	-515.0	6.17	-4.25	-4.47	8.0	13.9	
14,827.0	88.70	358.10	12,432.0	2,085.9	-519.1	1.73	1.17	1.28	11.1	17.5	
14,921.0	89.20	357.10	12,433.7	2,179.8	-523.1	1.19	0.53	-1.06	13.0	21.0	
15,015.0	90.00	358.60	12,434.4	2,273.8	-526.6	1.81	0.85	1.60	13.8	24.0	
15,108.0	90.70	358.90	12,433.8	2,368.7	-528.6	0.82	0.75	0.32	13.4	25.6	
15,202.0	91.90	359.10	12,431.7	2,460.7	-530.3	1.28	1.28	0.21	11.4	26.8	
15,296.0	92.90	1.30	12,427.7	2,554.6	-529.9	2.57	1.06	2.34	7.6	26.0	



Final PVA Report

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Python 36 State Com
Well: #703H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #703H
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 (grid_north_azim)	TVD (usft)	N/S (usft)	EW (usft)	DLeg (°/100usft)	Buflg (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
15,389.0	93.60	2.80	12,422.4	2,847.4	-526.6	1.78	0.75	1.61	2.4	22.2	
15,482.0	94.40	3.00	12,416.0	2,740.1	-521.9	0.89	0.88	0.22	-3.9	17.1	
15,576.0	89.70	0.80	12,412.6	2,833.9	-518.8	5.52	-5.00	-2.34	-7.1	13.5	
15,669.0	88.10	359.60	12,414.4	2,926.8	-518.5	2.15	-1.72	-1.29	-5.2	12.7	
15,762.0	88.50	0.60	12,417.1	3,019.8	-518.3	1.18	0.43	1.08	-2.3	12.1	
15,856.0	88.70	359.40	12,421.1	3,113.8	-518.3	2.30	-1.91	-1.28	1.8	11.7	
15,950.0	87.80	359.60	12,425.6	3,207.6	-519.1	1.19	1.17	0.21	6.5	12.0	
16,043.0	91.30	359.50	12,428.3	3,300.6	-519.9	3.76	3.76	-0.11	7.3	12.3	
16,137.0	91.60	1.60	12,423.9	3,394.6	-519.0	2.26	0.32	2.23	5.1	11.0	
16,230.0	89.30	359.60	12,423.2	3,487.6	-518.0	3.28	-2.47	-2.15	4.5	9.5	
16,323.0	90.40	359.20	12,423.5	3,580.6	-519.0	1.26	1.18	-0.43	4.9	10.0	
16,416.0	88.30	359.60	12,424.5	3,673.5	-519.9	2.30	-2.26	0.43	6.1	10.6	
16,510.0	88.60	357.70	12,427.0	3,767.5	-522.2	2.05	0.32	-2.02	8.8	12.3	
16,604.0	87.60	357.90	12,430.2	3,861.4	-525.8	1.08	-1.06	0.21	12.0	15.5	
16,697.0	87.80	2.20	12,433.9	3,954.3	-525.7	4.62	0.22	4.62	15.9	14.9	
16,790.0	89.10	0.40	12,436.4	4,047.2	-523.6	2.39	1.40	-1.94	18.6	12.4	
16,884.0	90.60	2.20	12,436.7	4,141.2	-521.4	2.49	1.60	1.91	18.9	9.8	
16,978.0	91.80	1.50	12,434.7	4,235.1	-518.4	1.48	1.28	-0.74	17.1	6.3	
17,071.0	90.90	0.00	12,432.5	4,328.1	-517.2	1.88	-0.97	-1.61	15.1	4.6	
17,165.0	92.20	358.50	12,430.0	4,422.0	-518.4	2.11	1.38	-1.60	12.7	5.4	
17,258.0	94.30	359.90	12,424.7	4,514.8	-519.7	2.71	2.26	1.51	7.5	6.2	
17,305.0	94.30	359.80	12,421.2	4,581.7	-519.8	0.21	0.00	-0.21	4.1	6.1	
Final MWD Survey (MD=17305.0')											
17,363.0	94.30	359.80	12,416.8	4,619.5	-520.0	0.00	0.00	0.00	-0.2	6.0	
Final Projection to Bit (MD=17363.0') - PBHL (Python 36 State Com #703H)											



Final PVA Report

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Python 36 State Com
Well: #703H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #703H
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)	
12,175.2	12,118.7	-452.4	-509.7	HL Crossing, MD:12175.2', TVD:12118.7', N/S:-452.4', E/W:-509.7', INC:32.61
17,305.0	12,421.2	4,561.7	-519.8	Final MWD Survey (MD=17305.0')
17,363.0	12,416.8	4,618.5	-520.0	Final Projection to Bit (MD=17363.0')

Checked By: _____ Approved By: _____ Date: _____



Lea County, NM (NAD 83 NME)

Python 36 State Com #703H

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: #703H

KB = 25' @ 3584.0usft
Northing 425693.00
Easting 758540.00
Latitude 32° 10' 6.599 N
Longitude 103° 37' 52.850 W

To convert a Magnetic Direction to a Grid Direction, Add 6.42°
To convert a Magnetic Direction to a True Direction, Add 6.76° East
To convert a True Direction to a Grid Direction, Subtract 0.37°

SECTION DETAILS

Sec	MD	Inc	Ad	TVD	+N-S	+E-W	Dir	TFace	VFace	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	1848.7	8.81	224.38	1844.8	-14.8	-14.8	2.00	224.38	-12.2		
4	7008.7	6.91	224.38	6989.2	-485.1	-474.6	0.00	0.00	-429.7		Brushy Top(Python 36 State Com #703H)
5	7338.4	0.00	0.00	7314.0	-450.0	-458.0	2.00	180.00	-442.8		
6	11978.0	0.00	0.00	11936.9	-600.0	-489.0	0.00	0.00	-442.8		
7	12728.8	88.71	339.72	12414.1	-25.0	-491.3	12.00	359.72	28.6		TGT#1(Python 36 State Com #703H)
8	13701.8	89.71	339.72	12418.0	851.0	-498.1	0.00	0.00	1000.0		TGT#2(Python 36 State Com #703H)
9	13710.4	89.89	339.72	12418.0	858.8	-498.1	2.00	0.00	1008.8		
10	14707.2	89.89	339.72	12421.0	1958.8	-601.0	0.00	0.00	2000.0		
11	14717.2	89.09	339.72	12421.0	1968.8	-601.0	2.00	0.00	2008.8		
12	17370.8	90.09	339.72	12417.0	4820.0	-614.0	0.00	0.00	4848.8		PEH (Python 36 State Com #703H)

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 #703H)	7314.0	-500.0	-489.0	425192.00	758061.00
TGT#1(Python 36 State Com #703H)	12418.0	851.0	-498.1	425844.00	758943.92
TGT#2(Python 36 State Com #703H)	12421.0	1958.8	-601.0	427648.80	758039.00
PEH (Python 36 State Com #703H)	12417.0	4820.0	-614.0	430313.00	758028.00
FTP (Python 36 State Com #703H)	12412.0	-450.0	-489.0	428243.00	758061.00

