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Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources
Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

FORM C-102

Revised August 1, 2011

Submit one copy to appropriate

District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-46608	² Pool Code 97964	³ Pool Name WC025 G07 S243225C; LOWER BONE SPRING
⁴ Property Code 325160	⁵ Property Name PYTHON 36 STATE	⁶ Well Number 505H
⁷ GRID No. 7377	⁸ Operator Name EOG RESOURCES, INC.	⁹ Elevation 3539'

¹⁰Surface Location

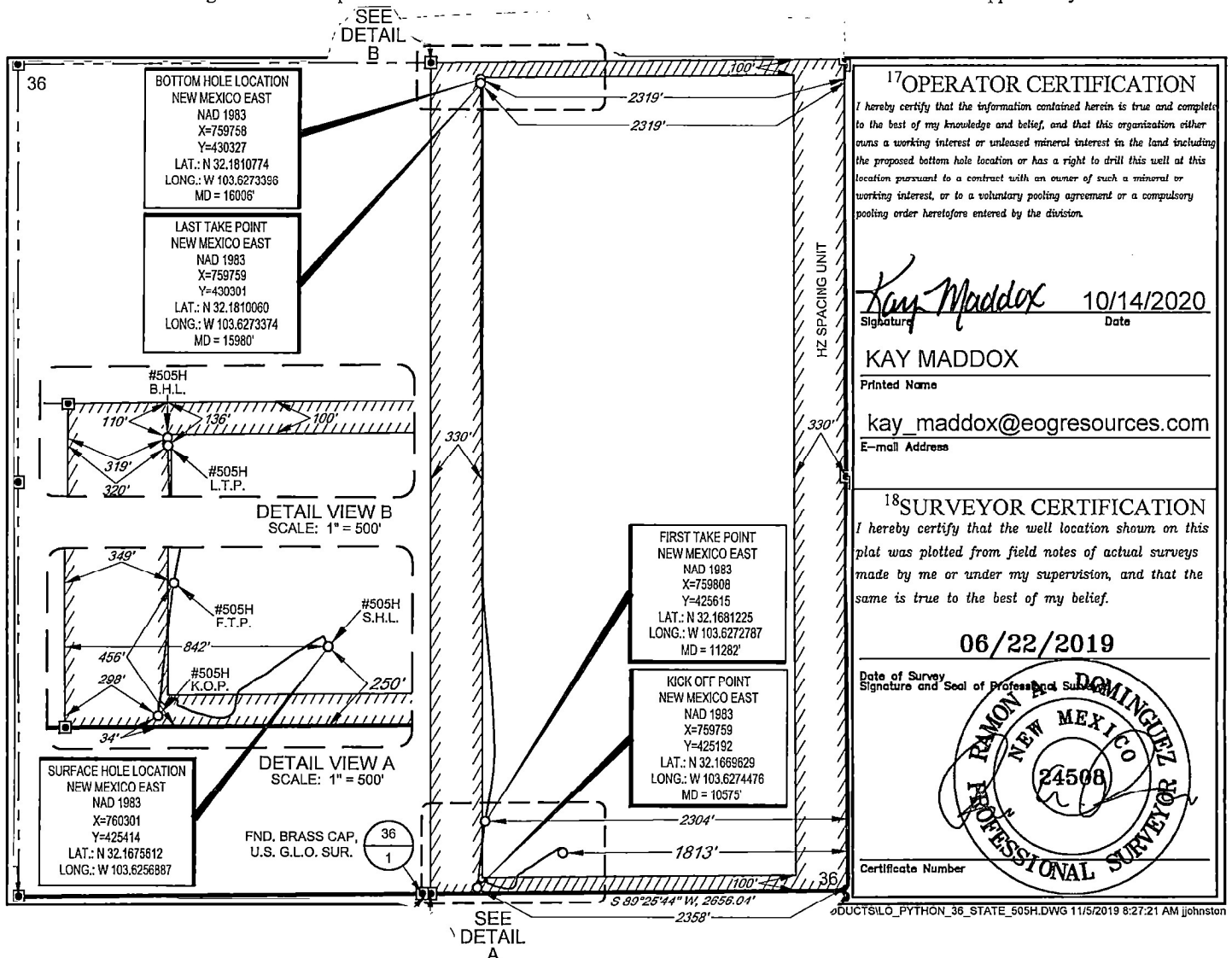
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	36	24-S	32-E	-	250'	SOUTH	1813'	EAST	LEA

¹¹Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	36	24-S	32-E	-	110'	NORTH	2319'	EAST	LEA

¹² Dedicated Acres 320.00	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



Intent ☐ As Drilled ☐ XXX

API #
30-025-46608

Operator Name: EOG RESOURCES, INC	Property Name: PYTHON 36 STATE	Well Number 505H
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Kick Off Point (KOP)

UL O	Section 36	Township 24S	Range 32E	Lot	Feet 34	From N/S SOUTH	Feet 2358	From E/W EAST	County LEA
Latitude 32.1669629					Longitude 103.6274476			NAD 1983	

First Take Point (FTP)

UL O	Section 36	Township 24S	Range 32E	Lot	Feet 456	From N/S SOUTH	Feet 2304	From E/W EAST	County LEA
Latitude 32.1681225					Longitude 103.6272787			NAD 1983	

Last Take Point (LTP)

UL B	Section 36	Township 24S	Range 32E	Lot	Feet 136	From N/S NORTH	Feet 2319	From E/W EAST	County LEA
Latitude 32.1810060					Longitude 103.6273374			NAD 1983	

Is this well the defining well for the Horizontal Spacing Unit? ☐ NO

Is this well an infill well? ☐ YES

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #
30-025-46609

Operator Name: EOG RESOURCES, INC	Property Name: PYTHON 36 STATE	Well Number 506H
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KZ 06/29/2018



EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Python 36 State

#505H

OH

Design: OH

Midland PVA

25 January, 2020



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #505H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3564.0usft (H&P 642)
Site:	Python 36 State	MD Reference:	KB = 25 @ 3564.0usft (H&P 642)
Well:	#505H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM

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 36 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	#505H					
Well Position	+N/-S	0.0 usft	Northing:	425,414.00 usft	Latitude:	32° 10' 3.224 N
	+E/-W	0.0 usft	Easting:	760,301.00 usft	Longitude:	103° 37' 32.485 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,539.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	11/25/2019	6.71	59.97	47,647.34614578

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	353.82	

Survey Program	Date	1/25/2020		
From	To	Survey (Wellbore)	Tool Name	Description
(usft)	(usft)			
178.0	16,006.0	Driltech (OH)	EOG MWD+IFR1	MWD + IFR1



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #505H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3564.0usft (H&P 642)
Site:	Python 36 State	MD Reference:	KB = 25 @ 3564.0usft (H&P 642)
Well:	#505H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM

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)	
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.0	0.0	0.0
178.0	1.23	325.76	178.0	1.6	-1.1	0.69	0.69	0.00	-1.9	0.0	
206.0	1.49	335.25	206.0	2.2	-1.4	1.23	0.93	33.89	-2.5	0.4	
292.0	1.23	340.97	292.0	4.0	-2.2	0.34	-0.30	6.65	-4.5	0.7	
381.0	1.32	344.39	380.9	5.9	-2.8	0.13	0.10	3.84	-6.5	1.1	
468.0	1.49	337.45	467.9	7.9	-3.5	0.28	0.20	-7.98	-8.7	0.1	
558.0	1.41	340.35	557.9	10.1	-4.3	0.12	-0.09	3.22	-10.9	0.6	
651.0	1.06	345.54	650.9	12.0	-4.9	0.39	-0.38	5.58	-12.8	1.7	
746.0	1.14	337.80	745.8	13.7	-5.5	0.18	0.08	-8.15	-14.8	-0.1	
839.0	0.88	321.28	838.8	15.1	-6.2	0.42	-0.28	-17.76	-15.7	-4.6	
932.0	0.97	313.28	931.8	16.2	-7.3	0.17	0.10	-8.60	-16.4	-6.8	
1,026.0	1.32	324.88	1,025.8	17.6	-8.5	0.44	0.37	12.34	-19.3	-3.2	
1,120.0	1.67	337.98	1,119.8	19.8	-9.6	0.52	0.37	13.94	-22.0	1.5	
1,216.0	1.76	342.02	1,215.7	22.5	-10.6	0.16	0.09	4.21	-24.7	3.1	
1,309.0	1.67	339.30	1,308.7	25.1	-11.5	0.13	-0.10	-2.92	-27.6	1.9	
1,403.0	1.49	330.59	1,402.6	27.5	-12.6	0.32	-0.19	-9.27	-30.1	-2.5	
1,497.0	1.32	343.16	1,496.6	29.6	-13.5	0.37	-0.18	13.37	-32.2	4.4	
1,591.0	1.14	297.46	1,590.6	31.0	-14.6	1.03	-0.19	-48.62	-27.3	-20.8	
1,684.0	2.11	247.36	1,683.6	30.8	-17.1	1.76	1.04	-53.87	-2.7	-35.0	
1,778.0	3.78	246.67	1,777.4	28.9	-21.5	1.78	1.78	-0.84	-2.7	-34.0	
1,871.0	5.28	242.44	1,870.1	25.7	-28.1	1.65	1.61	-4.44	-0.3	-34.5	
1,964.0	7.12	237.78	1,962.6	20.7	-36.8	2.05	1.98	-5.01	2.6	-32.9	
2,057.0	8.53	236.99	2,054.7	13.8	-47.4	1.52	1.52	-0.85	3.4	-30.4	
2,151.0	8.62	239.98	2,147.7	6.5	-59.4	0.48	0.10	3.18	3.3	-28.0	
2,245.0	8.71	239.89	2,240.6	-0.6	-71.6	0.10	0.10	-0.10	4.9	-25.7	
2,339.0	8.18	242.44	2,333.6	-7.3	-83.7	0.69	-0.56	2.71	5.7	-24.0	
2,432.0	0.27	239.00	2,425.0	-13.7	-95.4	0.42	0.10	-2.64	9.0	-21.7	



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #505H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3564.0usft (H&P 642)
Site:	Python 36 State	MD Reference:	KB = 25 @ 3564.0usft (H&P 642)
Well:	#505H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM

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)
2,526.0	8.35	237.34	2,518.6	-20.8	-107.0	0.39	0.09	-2.62	11.9	-18.7
2,619.0	8.35	235.23	2,610.7	-28.3	-118.2	0.33	0.00	-2.27	14.4	-15.0
2,714.0	8.27	235.85	2,704.7	-36.0	-129.5	0.13	-0.08	0.65	16.1	-11.7
2,807.0	8.09	235.32	2,796.7	-43.5	-140.4	0.21	-0.19	-0.57	18.3	-8.1
2,901.0	8.00	235.50	2,889.8	-51.0	-151.2	0.10	-0.10	0.19	20.5	-4.7
2,994.0	8.09	233.65	2,981.9	-58.5	-161.9	0.29	0.10	-1.99	22.9	-0.3
3,088.0	8.00	234.79	3,074.9	-66.2	-172.5	0.19	-0.10	1.21	25.1	3.0
3,182.0	7.91	232.86	3,168.0	-73.9	-183.0	0.30	-0.10	-2.05	27.3	7.8
3,276.0	7.83	232.60	3,261.2	-81.7	-193.3	0.09	-0.09	-0.28	29.7	12.1
3,369.0	7.47	236.82	3,353.3	-88.8	-203.4	0.72	-0.39	4.54	33.5	13.5
3,463.0	7.12	248.24	3,446.6	-94.3	-213.9	1.58	-0.37	12.15	39.5	7.9
3,556.0	7.83	244.37	3,538.8	-99.2	-225.0	0.84	0.76	-4.16	42.4	11.1
3,651.0	7.47	232.24	3,632.9	-105.8	-235.7	1.74	-0.38	-12.77	42.1	22.7
3,744.0	5.80	225.48	3,725.3	-112.8	-243.8	1.98	-1.80	-7.27	43.0	-32.8
3,837.0	4.84	231.45	3,817.9	-118.5	-250.2	1.19	-1.03	6.42	52.5	33.2
3,931.0	5.54	238.92	3,911.5	-123.3	-257.2	1.03	0.74	7.95	63.6	29.2
4,025.0	6.42	239.01	4,005.0	-128.4	-265.6	0.94	0.94	0.10	69.5	31.6
4,119.0	5.72	237.78	4,098.5	-133.6	-274.1	0.76	-0.74	-1.31	74.5	35.8
4,212.0	4.40	234.62	4,191.1	-138.1	-280.9	1.45	-1.42	-3.40	79.4	43.3
4,306.0	3.78	205.61	4,284.9	-143.0	-285.2	2.27	-0.66	-30.86	54.2	85.2
4,399.0	4.57	198.06	4,377.6	-149.3	-287.6	1.03	0.85	-8.12	46.2	103.0
4,491.0	4.75	198.49	4,469.3	-156.4	-290.0	0.20	0.20	0.47	49.6	114.5
4,584.0	6.33	187.16	4,561.9	-165.1	-291.9	2.06	1.70	-12.18	25.6	134.8
4,678.0	7.56	190.23	4,655.2	-176.4	-293.6	1.37	1.31	3.27	30.2	146.9
4,771.0	7.74	189.00	4,747.4	-188.6	-295.7	0.26	0.19	-1.32	22.9	160.8
4,865.0	6.77	203.15	4,840.6	-199.9	-298.8	2.16	-1.03	15.05	60.4	163.3
4,957.0	5.89	203.33	4,932.1	-209.2	-302.8	0.96	-0.96	0.20	60.7	173.5



Midland PVA

Company:	EOG Resources - Midland
Project:	Lea County, NM (NAD 83 NME)
Site:	Python 36 State
Well:	#505H
Wellbore:	OH
Design:	OH

Local Co-ordinate Reference:	Well #505H
TVD Reference:	KB = 25 @ 3564.0usft (H&P 642)
North Reference:	KB = 25 @ 3564.0usft (H&P 642)
Survey Calculation Method:	EDM
Database:	Minimum Curvature

MD	Inc	Azi (azimuth)	TVD	N/S	EW	Dip	Build	Turn	High to Plan	Right to Plan
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)	(usft)	(usft)
5,050.0	6.16	237.34	5,024.6	-26.3	-308.9	3.79	0.29	38.57	149.1	115.5
5,143.0	6.51	241.56	5,117.0	-221.5	-317.8	0.63	0.38	4.54	155.0	105.7
5,236.0	7.21	260.63	5,209.4	-225.0	-328.2	2.55	0.75	20.51	175.2	50.1
5,330.0	6.86	264.85	5,302.7	-226.5	-339.6	0.66	-0.37	4.49	168.7	37.0
5,423.0	6.95	276.63	5,395.0	-226.3	-350.7	1.52	0.10	12.67	161.7	2.7
5,516.0	7.03	276.45	5,487.3	-225.0	-361.9	0.09	0.09	-0.19	150.4	3.2
5,609.0	6.77	279.62	5,579.6	-223.5	-373.0	0.50	-0.28	3.41	139.1	-4.9
5,703.0	6.86	287.35	5,673.0	-220.9	-383.8	0.98	0.10	8.22	126.1	-23.0
5,796.0	6.95	286.42	5,765.3	-217.7	-394.5	0.27	0.10	-2.08	115.6	-18.9
5,883.0	5.98	280.50	5,851.1	-212.9	-415.0	0.60	-0.52	-2.63	95.8	-9.8
5,974.0	5.89	280.08	5,944.6	-210.4	-424.4	1.06	-0.10	10.19	83.2	-24.8
6,070.0	5.80	285.09	6,037.1	-205.7	-433.1	0.56	-0.10	5.39	71.2	-31.6
6,164.0	5.45	294.21	6,230.7	-202.9	-441.5	0.38	-0.37	-0.94	62.5	-30.5
6,264.0	5.36	293.59	6,324.3	-199.3	-449.6	0.11	-0.10	-0.66	54.0	-29.9
6,358.0	5.54	290.25	6,416.8	-196.0	-457.8	0.39	0.19	-3.59	46.8	-26.9
6,455.0	5.36	291.83	6,510.4	-192.8	-466.1	0.25	-0.19	1.68	37.1	-28.1
6,548.0	4.84	291.48	6,603.0	-189.8	-473.8	0.56	-0.56	-0.38	29.0	-27.9
6,638.0	2.64	302.29	6,696.8	-187.2	-479.3	2.45	-2.34	11.50	17.2	-32.0
6,732.0	2.90	8.12	6,790.7	-183.6	-480.8	3.21	0.28	70.03	-25.4	-26.9
6,819.0	2.73	7.95	6,883.6	-179.1	-480.2	0.18	0.18	-0.18	-29.9	-27.0
6,913.0	1.67	353.89	6,977.6	-175.5	-480.0	1.26	-1.13	-14.96	-26.0	-34.0
7,013.0	1.32	345.89	7,071.5	-173.1	-480.4	0.43	-0.37	-8.51	-23.4	-37.4
7,107.0	1.14	339.82	7,164.5	-171.2	-481.0	0.24	-0.19	-6.53	-21.3	-39.8
7,200.0	1.06	324.88	7,257.5	-168.0	-482.4	0.29	0.09	-15.89	-13.8	-44.7
7,293.0	1.14	305.81	7,351.5	-165.8	-483.7	0.40	0.09	-20.29	-0.2	-47.0
7,384.0	1.14	295.53	7,445.5	-163.2	-485.2	0.22	0.00	-11.05	6.4	-46.5



Midland PVA

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Project:	Loa County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3564.0usft (H&P 642)
Site:	Python 36 State	MD Reference:	KB = 25 @ 3564.0usft (H&P 642)
Well:	#505H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM

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)
7,668.0	1.32	284.80	7,632.4	-165.1	-487.1	0.31	0.19	-11.41	12.9	-44.6
7,761.0	0.70	274.96	7,725.4	-164.8	-488.7	0.69	-0.67	-10.58	18.7	-42.0
7,855.0	0.79	261.16	7,819.4	-164.9	-490.0	0.21	0.10	-14.68	27.0	-36.4
7,948.0	0.97	237.08	7,912.4	-165.4	-491.2	0.44	0.19	-25.89	38.1	-22.5
8,042.0	1.14	228.20	8,006.4	-166.4	-492.6	0.25	0.18	-9.45	39.4	-16.5
8,134.0	1.14	227.85	8,098.4	-167.7	-494.0	0.01	0.00	-0.38	37.7	-16.2
8,228.0	1.14	219.85	8,192.3	-169.0	-495.3	0.17	0.00	-8.51	37.7	-11.0
8,321.0	1.41	208.41	8,285.3	-170.7	-496.4	0.40	0.29	-12.30	37.1	-3.5
8,415.0	1.58	209.83	8,379.3	-172.9	-497.6	0.19	0.18	1.51	34.5	-4.4
8,602.0	1.58	214.75	8,566.2	-177.2	-500.3	0.07	0.00	2.63	28.9	-7.1
8,695.0	1.49	221.52	8,659.2	-179.2	-501.9	0.22	-0.10	7.28	25.4	-10.3
8,788.0	1.58	229.08	8,752.1	-180.9	-503.6	0.24	0.10	8.13	21.3	-13.4
8,882.0	1.49	235.85	8,846.1	-182.5	-505.6	0.22	-0.10	7.20	17.1	-15.6
8,976.0	1.58	242.70	8,940.1	-183.7	-507.8	0.22	0.10	7.29	12.6	-17.4
9,069.0	0.88	240.95	9,032.1	-184.7	-509.5	0.76	-0.76	-1.90	11.1	-17.1
9,161.0	1.49	231.37	9,125.0	-185.8	-511.1	0.69	0.66	-10.30	11.9	-15.1
9,255.0	1.32	238.13	9,219.0	-187.1	-513.0	0.25	-0.18	7.19	7.8	-16.2
9,349.0	1.06	272.85	9,313.0	-187.6	-514.8	0.80	-0.28	36.94	-4.6	-17.2
9,442.0	1.49	292.98	9,406.0	-187.1	-516.8	0.66	0.46	21.65	-12.3	-14.2
9,629.0	3.87	298.78	9,592.7	-183.1	-524.5	1.28	1.27	3.10	-22.4	-12.7
9,722.0	4.57	310.73	9,685.5	-179.2	-530.1	1.20	0.75	12.85	-31.3	-7.1
9,816.0	3.08	284.01	9,779.3	-176.2	-535.4	2.43	-1.59	-28.43	-30.6	-22.1
9,910.0	4.22	204.65	9,873.1	-178.7	-539.3	5.04	1.21	-84.43	12.1	-36.7
10,002.0	4.13	183.38	9,964.9	-185.1	-540.9	1.68	-0.10	-23.12	18.1	-31.0
10,095.0	4.66	178.46	10,057.6	-192.2	-541.0	0.70	0.57	-5.29	13.6	-29.6
10,189.0	4.48	180.65	10,151.3	-199.7	-540.9	0.27	-0.19	2.33	5.0	-30.0
10,282.0	3.06	179.33	10,244.1	-206.5	-540.9	0.57	-0.56	-1.42	-1.2	-29.9



Midland PVA

Company:		EOG Resources - Midland				Local Co-ordinate Reference:		Well #505H			
Project:		Lea County, NM (NAD 83 NME)				TVD Reference:		KB = 25 @ 3564.0usft (H&P 642)			
Site:		Python 36 State				MD Reference:		KB = 25 @ 3564.0usft (H&P 642)			
Well:		#505H				North Reference:		Grid			
Wellbore:		OH				Survey Calculation Method:		Minimum Curvature			
Design:		OH				Database:		EDM			

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)
10,376.0	2.99	185.14	10,337.9	-212.2	-541.1	1.10	-1.03	6.18	-9.9	-29.3
10,508.0	2.99	191.02	10,469.7	-219.0	-542.1	0.23	0.00	4.45	-19.7	-27.8
10,575.0	1.10	221.30	10,536.7	-221.2	-542.8	3.15	-2.81	45.20	-33.2	-13.2
KOP, MD:10575.0, TVD:10536.7, N/S:-221.2, E/W:-542.8, INC:1.10										
10,601.0	0.79	269.07	10,562.7	-221.4	-543.2	3.15	-1.21	183.73	-32.4	15.9
10,623.4	3.60	359.83	10,585.0	-220.7	-543.3	16.54	12.58	406.03	15.6	32.4
KOP (Python 36 State #505H)										
10,695.0	15.39	9.35	10,655.6	-209.0	-541.8	16.54	16.45	13.29	14.2	28.9
10,789.0	25.85	7.66	10,743.4	-176.3	-537.0	11.14	11.13	-1.80	2.4	25.8
10,834.0	31.21	6.37	10,782.9	-155.0	-534.4	11.98	11.90	-2.86	-3.1	23.6
FTP Crossing, MD:10834.0, TVD:10782.9, N/S:-155.0, E/W:-534.4, INC:31.21										
10,882.0	36.93	5.38	10,822.7	-128.3	-531.7	11.98	11.92	-2.07	-8.7	21.1
10,976.0	45.11	5.73	10,893.5	-66.9	-525.7	8.71	8.70	0.37	-16.0	15.4
11,011.6	50.36	6.26	10,917.5	-40.7	-522.9	14.79	14.75	1.48	-18.0	12.6
FTP (Python 36 State #505H)										
11,069.0	58.83	6.96	10,950.7	5.7	-517.5	14.79	14.76	1.22	-22.3	7.3
11,163.0	66.48	5.82	10,993.9	88.6	-508.3	8.21	8.14	-1.21	-27.0	-2.7
11,256.0	73.69	8.10	11,026.5	175.3	-497.6	8.11	7.75	2.55	-24.5	-14.1
11,350.0	78.96	10.56	11,047.7	265.4	-482.7	6.12	5.61	2.52	-13.1	-29.8
11,413.0	86.09	10.21	11,055.9	326.8	-471.4	11.33	11.32	-0.56	-4.8	-41.7
11,507.0	89.52	8.72	11,059.5	419.5	-456.0	3.98	3.65	-1.59	-0.9	-57.6
11,600.0	90.13	5.38	11,059.8	511.7	-444.6	3.65	0.66	-3.59	-0.8	-69.4
11,693.0	92.24	2.39	11,057.9	604.5	-438.3	3.93	2.27	-3.22	-2.9	-76.0
11,787.0	90.92	357.91	11,055.3	698.4	-438.0	4.97	-1.40	-4.77	-5.9	-76.7
11,880.0	91.80	357.21	11,053.1	791.3	-442.0	1.21	0.95	-0.75	-8.4	-73.1
11,973.0	92.59	357.47	11,049.5	884.1	-446.3	0.89	0.85	0.28	-12.2	-69.1
12,067.0	90.75	356.50	11,046.8	978.0	-451.2	2.21	-1.96	-1.03	-15.2	-64.6



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #505H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3564.0usft (H&P 642)
Site:	Python 36 State	MD Reference:	KB = 25 @ 3564.0usft (H&P 642)
Well:	#505H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM

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)
12,160.0	90.31	355.71	11,045.9	1,070.7	-457.6	0.97	-0.47	-0.85	-16.3	-58.6
12,254.0	90.84	355.18	11,045.0	1,164.4	-465.0	0.80	0.56	-0.56	-17.5	-51.5
12,347.0	91.28	354.39	11,043.3	1,257.0	-473.5	0.97	0.47	-0.85	-19.6	-43.4
12,440.0	91.45	353.43	11,041.0	1,349.5	-483.3	1.05	0.18	-1.03	-22.0	-33.9
12,534.0	89.16	355.62	11,040.5	1,443.0	-492.3	3.37	-2.44	2.33	-22.7	-25.4
12,627.0	88.81	353.78	11,042.2	1,535.6	-500.9	2.01	-0.38	-1.98	-21.3	-17.2
12,721.0	90.31	356.41	11,042.9	1,629.3	-508.9	3.22	1.60	2.80	-20.8	-9.6
12,814.0	90.75	356.50	11,042.1	1,722.1	-514.7	0.48	0.47	0.10	-21.9	-4.2
12,908.0	89.16	358.79	11,042.1	1,816.0	-518.6	2.97	-1.69	2.44	-22.1	-0.7
13,001.0	89.96	1.07	11,042.8	1,909.0	-518.7	2.60	0.86	2.45	-21.6	-1.0
13,094.0	90.31	0.63	11,042.6	2,002.0	-517.3	0.60	0.38	-0.47	-22.1	-2.8
13,187.0	90.04	359.23	11,042.3	2,095.0	-517.4	1.53	-0.29	-1.51	-22.7	-3.0
13,281.0	89.87	358.52	11,042.4	2,189.0	-519.2	0.78	-0.18	-0.76	-22.8	-1.6
13,374.0	89.69	358.17	11,042.8	2,281.9	-521.9	0.42	-0.19	-0.38	-22.7	0.7
13,468.0	89.60	1.51	11,043.4	2,375.9	-522.2	3.55	-0.10	3.55	-22.4	0.6
13,550.5	89.37	0.50	11,044.1	2,458.4	-520.7	1.26	-0.28	-1.23	-21.9	-1.2
TGT#1 (Python 36 State #505H)										
13,561.0	89.34	0.37	11,044.2	2,468.9	-520.7	1.26	-0.28	-1.23	-21.8	-1.3
13,654.0	88.64	359.31	11,045.9	2,561.9	-520.9	1.37	-0.75	-1.14	-20.5	-1.4
13,747.0	88.81	357.56	11,047.9	2,654.8	-523.5	1.89	0.18	-1.88	-18.9	0.7
13,842.0	91.98	0.55	11,047.3	2,749.8	-525.0	4.59	3.34	3.15	-20.1	1.9
13,936.0	92.07	358.79	11,043.9	2,843.7	-525.6	1.87	0.10	-1.87	-24.1	2.1
14,029.0	92.07	358.61	11,040.6	2,936.6	-527.7	0.19	0.00	-0.19	-28.2	3.8
14,052.1	92.05	358.72	11,039.8	2,959.7	-528.2	0.48	-0.10	0.47	-29.2	4.3
TGT#2 (Python 36 State #505H)										
14,123.0	91.98	359.05	11,037.3	3,030.5	-529.6	0.48	-0.10	0.47	-32.3	5.4
14,216.0	91.54	357.20	11,034.4	3,123.4	-532.6	2.04	-0.47	-1.99	-35.9	8.0



Midland PVA

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Python 36 State
Well: #505H
Wellbore: OH
Design: OH
Local Coordinate Reference: Well #505H
TVD Reference: KB = 25 @ 3564.0usft (H&P 642)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM

Survey										
MD	Inc	Azi (azimuth)	TVD	N/S	EW	D/Leg	Build	Turn	High to Plan	Right to Plan
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)	(usft)	(usft)
14,309.0	91.98	0.10	11,031.6	3,216.4	-534.8	3.15	0.47	3.12	-39.4	9.8
14,402.0	92.68	359.14	11,027.8	3,309.3	-535.4	1.28	0.75	-1.03	-43.7	10.1
14,496.0	90.92	0.63	11,024.8	3,403.2	-535.6	2.45	-1.87	1.59	-47.0	9.9
14,589.0	91.63	0.02	11,022.7	3,496.2	-535.1	1.01	0.76	-0.66	-49.4	9.0
14,682.0	88.99	1.86	11,022.2	3,589.2	-533.6	3.46	-2.84	1.98	-50.1	7.0
14,776.0	89.16	0.19	11,023.8	3,683.2	-531.9	1.79	0.18	-1.78	-48.7	5.0
14,869.0	88.29	0.54	11,025.8	3,776.1	-531.3	1.01	-0.94	0.38	-46.6	4.0
14,962.0	87.76	359.14	11,029.0	3,869.1	-531.6	1.61	-0.57	-1.51	-43.2	3.9
15,056.0	90.13	358.00	11,030.8	3,963.0	-533.9	2.80	2.52	-1.21	-41.2	5.8
15,058.8	90.14	357.98	11,030.8	3,965.8	-534.0	0.82	0.29	-0.76	-41.2	5.9
TGT#3 (Python 36 State #505H)										
15,149.0	90.40	357.29	11,030.3	4,055.9	-537.7	0.82	0.29	-0.76	-41.4	9.3
15,242.0	89.69	1.51	11,030.3	4,148.9	-538.7	4.60	-0.76	4.54	-41.4	9.9
15,336.0	89.43	0.28	11,031.0	4,241.9	-537.3	1.35	-0.28	-1.32	-40.6	8.0
15,429.0	88.72	1.16	11,032.5	4,335.9	-536.1	1.20	-0.76	0.94	-39.2	6.5
15,522.0	88.20	0.28	11,035.0	4,428.8	-534.9	1.10	-0.56	-0.95	-37.0	4.9
15,615.0	86.46	0.19	11,037.7	4,521.8	-534.5	0.30	0.28	-0.10	-34.6	4.2
15,708.0	90.22	359.67	11,038.8	4,614.8	-534.6	1.97	1.89	-0.56	-34.0	3.9
15,801.0	90.84	358.95	11,037.9	4,707.8	-536.2	1.57	0.67	-1.42	-35.4	5.1
15,895.0	90.22	358.00	11,037.0	4,801.7	-539.2	0.76	-0.66	-0.37	-37.0	7.7
Last MWD Survey (MD=15895.0)										
16,005.8	90.22	358.00	11,038.6	4,912.5	-543.1	0.00	0.00	0.00	-38.4	11.1
PBHL (Python 36 State #505H)										
16,006.0	90.22	358.00	11,038.6	4,912.6	-543.1	0.00	0.00	0.00	-38.4	11.1
Projection to Bilt (MD=16006.0)										



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #505H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3564.0usft (H&P 642)
Site:	Python 36 State	MD Reference:	KB = 25 @ 3564.0usft (H&P 642)
Well:	#505H	North Reference:	Grid
Wellbore:	.OH	Survey Calculation Method:	Minimum Curvature
Design:	.OH	Database:	EDM

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S. (usft)	+E/-W (usft)	
10,575.0	10,536.7	-221.2	-542.8	KOP, MD:10575.0', TVD:10536.7', N/S:-221.2', E/W:-542.8', INC:1.10
10,834.0	10,782.9	-155.0	-534.4	FTP Crossing, MD:10834.0', TVD:10782.9', N/S:-155.0', E/W:-534.4', INC:31.21
15,895.0	11,037.0	4,801.7	-539.2	Last MWD Survey (MD=15895.0')
16,006.0	11,036.6	4,912.6	-543.1	Projection to Bit (MD=16006.0')

Checked By: _____ Approved By: _____ Date: _____

I certify this survey to be true and correct to the best of my belief and knowledge.

Kay Maddox 10/14/2020
Signed Date



Lea County, NM (NAD 83 NME)

Python 36 State #505H

H&P 642

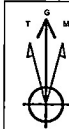
Plan #1

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: #505H

Ground Level: 3539.0
KB = 25 @ 3564.0usft (H&P 642)
Northing: 423414.00 Easting: 79301.00 Latitude: 32° 10' 3.224 N Longitude: 103° 37' 52.485 W



Azimuths to Grid North:
True North: 0.38°
Magnetic North: 6.33°

Magnetic Field
Strength: 47647.3nT
Dip Angle: 59.97°
Date: 11/25/2019
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 6.33°
To convert a Magnetic Direction to a True Direction, Add 6.71° East
To convert a True Direction to a Grid Direction, Subtract 6.38°

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
1600.0	0.00	0.00	1600.0	0.0	0.0	0.00	0.00	0.0	
2084.2	9.68	248.14	2081.9	-15.2	-37.9	2.00	248.14	-11.0	
4872.2	9.68	248.14	4830.1	-189.8	-473.1	0.00	0.00	-137.8	
5356.3	0.00	0.00	5312.0	-205.0	-511.0	2.00	180.00	-148.8	
10626.8	0.00	0.00	10582.5	-205.0	-511.0	0.00	0.00	-148.8	KOP (Python 36 State #505H)
11375.5	89.84	359.77	11060.0	271.1	-512.9	12.00	359.77	324.8	
13562.6	89.84	359.77	11066.0	245.2	-521.9	0.00	0.00	2500.1	TGT#1 (Python 36 State #505H)
14065.2	89.47	359.77	11069.0	2960.8	-524.0	0.07	180.00	3000.0	TGT#2 (Python 36 State #505H)
15070.6	90.18	359.77	11072.0	3966.2	-528.1	0.07	0.00	4000.0	TGT#3 (Python 36 State #505H)
16017.4	89.45	359.76	11075.0	4913.0	-532.0	0.08	-179.61	4941.7	PBHL (Python 36 State #505H)

CASING DETAILS

TVD	MD	Name	Size
1174.0	1333.8	Surface Casing	13-3/8

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
KOP (Python 36 State #505H)	10582.5	-205.0	-511.0	425209.00	793790.00
PTP (Python 36 State #505H)	11061.0	-165.0	-511.0	425209.00	793790.00
TGT#1 (Python 36 State #505H)	11066.0	245.2	-521.9	427872.20	793779.00
TGT#2 (Python 36 State #505H)	11069.0	2960.8	-524.0	428374.90	793777.04
TGT#3 (Python 36 State #505H)	11072.0	3966.2	-528.1	428380.20	793772.92
PBHL (Python 36 State #505H)	11075.0	4913.0	-532.0	430327.00	793769.00

