REC'D 10/14/2020 - NMOCD

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
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	[2]Pool Code	[3]Pool Name
30-025-46607	97964	WC025 G07 S243225C; LOWER BONE SPRING

[4]Property Code	[5]Property Name	[6]Well Number
320555	PYTHON 36 STATE COM	504H

[7]OGRID No.	[8]Operator Name	[9]Elevation
7377	EOG RESOURCES, INC.	3559'

[10]Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	36	24-S	32-E	-	461'	SOUTH	1713'	WEST	LEA

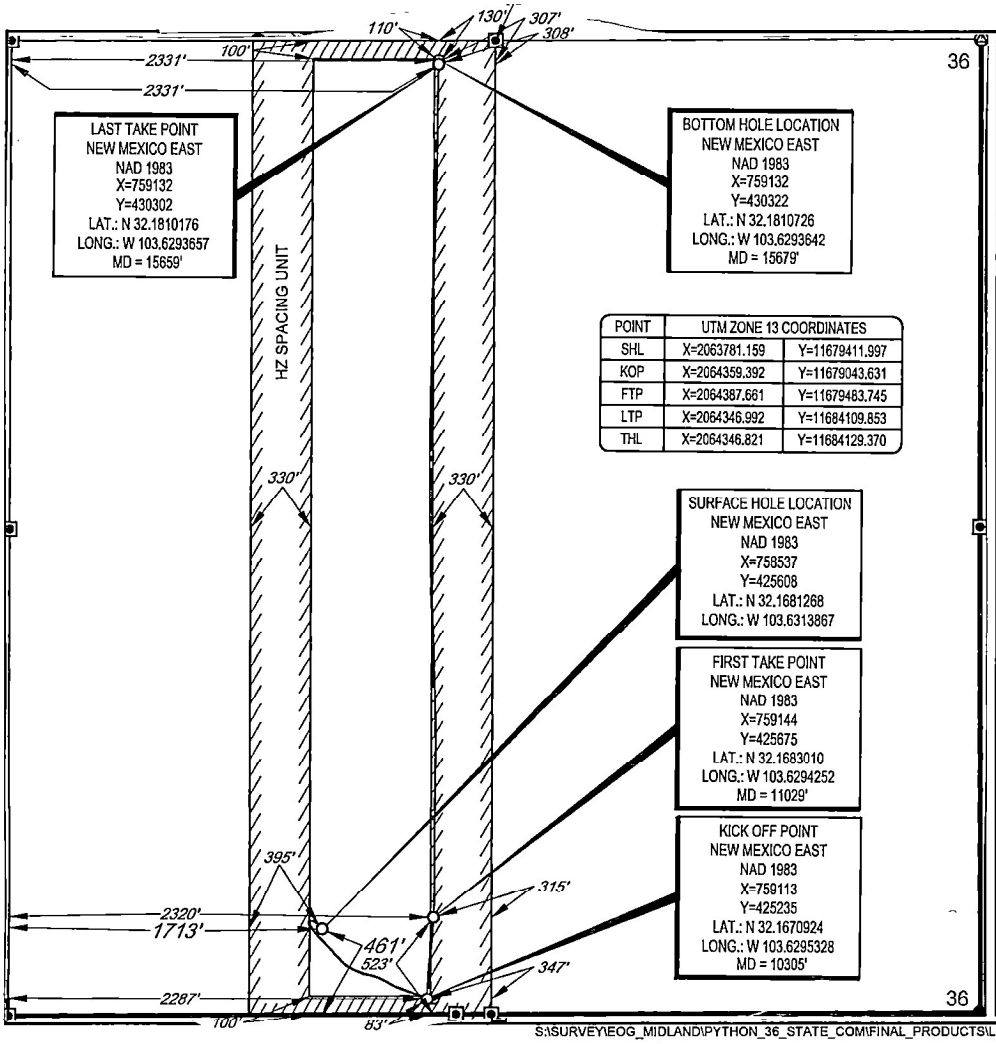
[11]Bottom Hole Location If Different From Surface

SL

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	36	24-S	32-E	-	110'	NORTH	2331'	WEST	LEA

[12]Dedicated Acres	[13]Joint or Infill	[14]Consolidation Code	[15]Order No.
160.00			

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.



[17]OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Kay Maddox — 10/14/2020
Signature — Date

KAY MADDOX
Printed Name

kay_maddox@eogresources.com
E-mail Address

[18]SURVEYOR CERTIFICATION

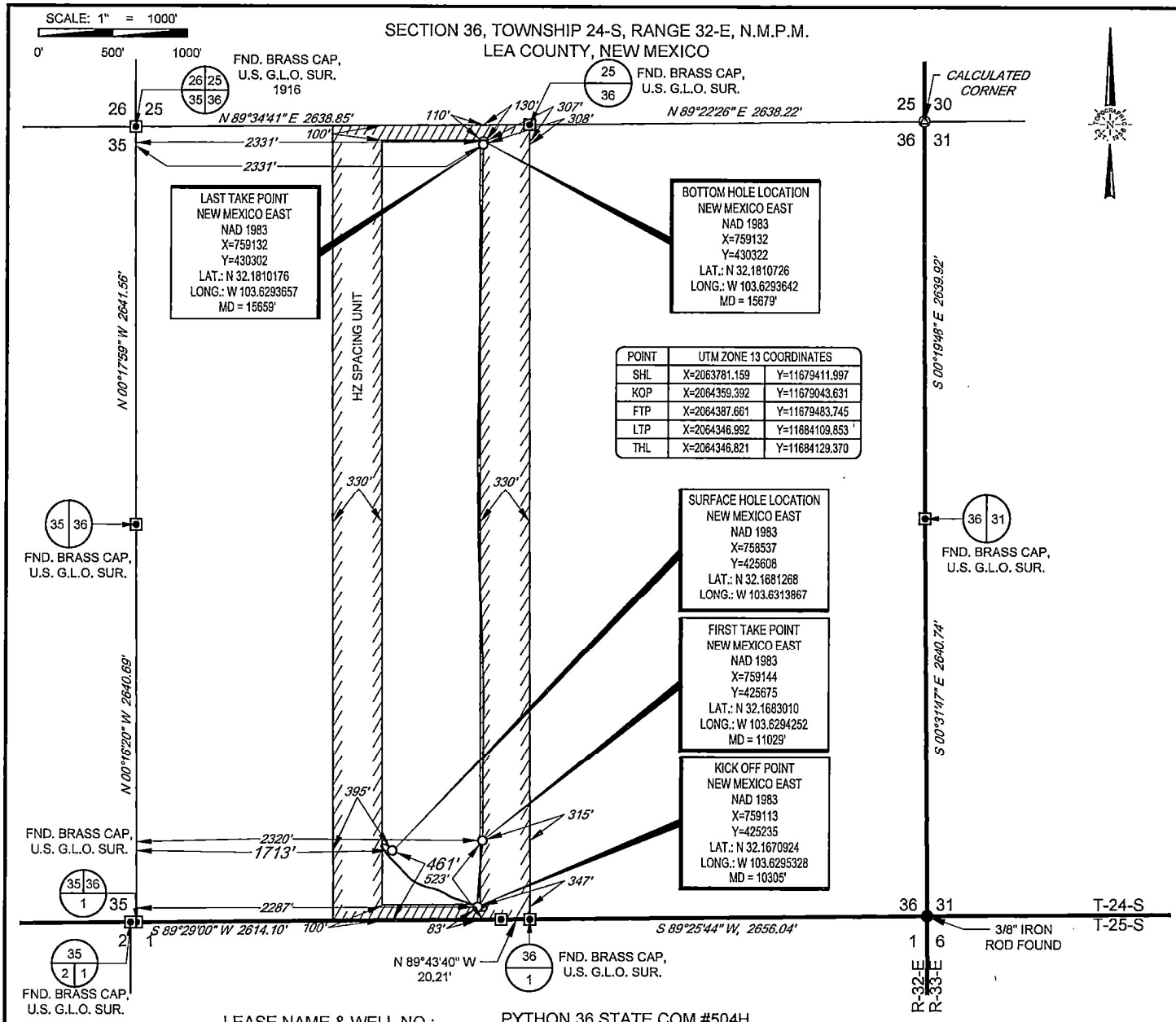
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true to the best of my belief.

06/22/2019
Date of Survey
Signature and Seal of Professional Surveyor

RAMON P. DOMINGUEZ — NEW MEXICO — 24508 — PROFESSIONAL SURVEYOR

Certificate Number

S:\SURVEY\EOG_MIDLAND\PYTHON_36_STATE_COM\FINAL_PRODUCTS\LO_PYTHON_36_STATE_COM_504H.DWG 11/5/2019 8:25:55 AM jjohnston



POINT	UTM ZONE 13 COORDINATES	
SHL	X=2063781.159	Y=11679411.997
KOP	X=2064359.392	Y=11679043.631
FTP	X=2064387.661	Y=11679483.745
LTP	X=2064346.992	Y=11684109.853
THL	X=2064346.821	Y=11684129.370

LEASE NAME & WELL NO.: PYTHON 36 STATE COM #504H

SECTION 36 TWP 24-S RGE 32-E SURVEY N.M.P.M.

COUNTY LEA STATE NM ELEVATION 3559'

DESCRIPTION 461' FSL & 1713' FWL

RAMON A. DOMINGUEZ NEW MEXICO 24508 PROFESSIONAL SURVEYOR

TOPOGRAPHIC
LOYALTY INNOVATION LEGACY
1400 EVERMAN PARKWAY, Ste. 146 • FT. WORTH, TEXAS 76140
TELEPHONE: (817) 744-7512 • FAX (817) 744-7554
2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743
WWW.TOPOGRAPHIC.COM

Ramon A. Dominguez, P.S. No. 24508
JUNE 23, 2020

eog resources, inc.

PYTHON 36 STATE COM #504H AS-COMPLETE	REVISION:
DATE: 06/23/2020	
FILE: AD_PYTHON_36_STATE_COM_504H	
DRAWN BY: A.V.F.	
SHEET: 1 OF 1	

NOTES:
1. ORIGINAL DOCUMENT SIZE: 8.5" X 11"
2. ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREIN ARE GRID BASED UPON THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, U.S. SURVEY FEET.
3. THIS WELL LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY EOG RESOURCES, INC. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.

S:\SURVEY\EOG_MIDLAND\PYTHON_36_STATE_COM\FINAL_PRODUCTS\AD_PYTHON_36_STATE_COM_504H.DWG 6/25/2020 11:39:49 AM adisabella

EOG Resources - Midland

Lea County, NM (NAD 83 NME)
Python 36 State Com
#504H
OH

Design: OH

Midland PVA

31 January, 2020

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #504H
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:	#504H	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 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	#504H				
Well Position	+N/-S	0.0 usft	Northing:	425,608.00 usft	Latitude:	32° 10' 5.258 N
	+E/-W	0.0 usft	Easting:	758,537.00 usft	Longitude:	103° 37' 52.992 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	1/20/2020	6.70	59.97	47,631.21364691

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	6.92

Survey Program	Date 1/31/2020			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
190.0	15,679.0	Prodirectional (OH)	EOG MWD+IFR1	MWD + IFR1

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #504H
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Well:	#504H	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
190.0	0.90	333.40	190.0	1.3	-0.7	0.47	0.47	0.00	0.0	0.0
304.0	1.50	345.30	304.0	3.6	-1.4	0.57	0.53	10.44	0.0	0.0
391.0	1.60	345.20	390.9	5.9	-2.0	0.11	0.11	-0.11	0.0	0.0
513.0	5.70	316.10	512.7	11.9	-6.7	3.58	3.36	-23.85	0.0	0.0
659.0	6.00	316.00	657.9	22.6	-17.0	0.21	0.21	-0.07	0.0	0.0
753.0	8.80	306.90	751.1	30.4	-26.2	3.22	2.98	-9.68	0.0	0.0
848.0	8.20	299.20	845.1	38.1	-37.9	1.35	-0.63	-8.11	0.0	0.0
942.0	5.10	282.70	938.4	42.3	-47.8	3.84	-3.30	-17.55	0.0	0.0
1,037.0	3.30	261.70	1,033.2	42.8	-54.7	2.46	-1.89	-22.11	0.0	0.0
1,131.0	2.70	249.20	1,127.1	41.7	-59.4	0.94	-0.64	-13.30	0.0	0.0
1,226.0	2.80	237.70	1,222.0	39.6	-63.5	0.59	0.11	-12.11	0.0	0.0
1,263.0	2.70	231.60	1,258.9	38.6	-64.9	0.84	-0.27	-16.49	0.0	0.0
1,411.0	2.50	226.40	1,406.8	34.2	-70.0	0.21	-0.14	-3.51	0.2	0.3
1,505.0	0.90	93.60	1,500.7	32.7	-70.7	3.38	-1.70	-141.28	-2.1	0.6
1,600.0	1.20	95.20	1,595.7	32.6	-69.0	0.32	0.32	1.68	-4.2	1.0
1,694.0	0.30	292.80	1,689.7	32.6	-68.2	1.58	-0.96	-172.77	4.4	-2.5
1,789.0	1.30	291.40	1,784.7	33.1	-69.5	1.05	1.05	-1.47	3.1	-2.4
1,883.0	1.10	286.10	1,878.7	33.7	-71.3	0.24	-0.21	-5.64	1.3	-2.2
1,978.0	0.70	247.20	1,973.7	33.8	-72.7	0.75	-0.42	-40.95	1.1	-1.4
2,072.0	2.60	161.20	2,067.6	31.5	-72.6	2.81	2.02	-91.49	0.0	0.1
2,167.0	5.80	147.30	2,162.4	25.4	-69.3	3.51	3.37	-14.63	-3.2	-1.6
2,261.0	8.10	143.40	2,255.7	16.1	-62.8	2.50	2.45	-4.15	-7.8	-3.7
2,356.0	11.30	143.40	2,349.3	3.3	-53.2	3.37	3.37	0.00	-14.1	-6.1
2,450.0	11.60	143.50	2,441.4	-11.7	-42.1	0.32	0.32	0.11	-20.1	-9.1
2,545.0	12.80	140.30	2,534.3	-27.5	-29.7	1.45	1.26	-3.37	-23.7	-13.7
2,639.0	15.30	135.60	2,625.5	-44.4	-14.4	2.92	2.66	-5.00	-26.3	-18.3

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #504H
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:	#504H	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)
2,734.0	15.40	134.70	2,717.1	-62.2	3.3	0.27	0.11	-0.95	-30.0	-20.6
2,828.0	15.00	135.00	2,807.8	-79.6	20.8	0.43	-0.43	0.32	-33.8	-22.2
2,923.0	14.90	135.70	2,899.6	-97.0	38.0	0.22	-0.11	0.74	-37.4	-23.8
3,017.0	15.00	138.70	2,990.4	-114.8	54.5	0.83	0.11	3.19	-42.0	-24.4
3,112.0	14.90	136.90	3,082.2	-132.9	71.0	0.50	-0.11	-1.89	-44.6	-28.7
3,206.0	14.90	137.60	3,173.0	-150.7	87.4	0.19	0.00	0.74	-48.2	-30.8
3,301.0	14.40	135.80	3,264.9	-168.2	103.9	0.71	-0.53	-1.89	-50.1	-34.8
3,396.0	13.50	133.30	3,357.1	-184.3	120.2	1.14	-0.95	-2.63	-50.2	-38.6
3,490.0	12.60	123.30	3,448.7	-197.4	136.7	2.58	-0.96	-10.64	-43.0	-46.0
3,680.0	10.90	115.30	3,634.7	-216.5	170.3	1.24	-0.89	-4.21	-33.3	-43.4
3,775.0	10.50	114.30	3,728.1	-223.9	186.3	0.46	-0.42	-1.05	-29.5	-38.4
3,869.0	10.00	111.90	3,820.6	-230.4	201.7	0.70	-0.53	-2.55	-24.4	-33.4
3,964.0	9.10	112.00	3,914.3	-236.3	216.3	0.95	-0.95	0.11	-19.8	-26.7
4,058.0	9.70	106.00	4,007.0	-241.3	230.8	1.22	0.64	-6.38	-12.8	-20.8
4,152.0	11.00	100.40	4,099.5	-245.1	247.2	1.75	1.38	-5.96	-9.1	-12.2
4,246.0	10.30	99.70	4,191.9	-248.1	264.3	0.76	-0.74	-0.74	-8.3	-3.1
4,341.0	9.90	102.00	4,285.4	-251.3	280.7	0.60	-0.42	2.42	-7.4	3.2
4,436.0	11.80	110.30	4,378.7	-256.3	297.8	2.58	2.00	8.74	-7.2	7.1
4,531.0	11.70	112.50	4,471.7	-263.4	315.8	0.48	-0.11	2.32	-8.7	8.6
4,625.0	12.30	116.20	4,563.6	-271.5	333.6	1.04	0.64	3.94	-10.3	9.6
4,719.0	12.30	119.20	4,655.5	-280.8	351.3	0.68	0.00	3.19	-12.4	9.5
4,814.0	12.00	120.30	4,748.4	-290.7	368.7	0.40	-0.32	1.16	-14.8	8.5
5,002.0	8.80	117.70	4,933.2	-307.2	398.3	1.72	-1.70	-1.38	-14.2	5.7
5,096.0	11.80	108.30	5,025.7	-313.6	413.8	3.65	3.19	-10.00	-14.3	4.3
5,191.0	12.60	108.40	5,118.6	-319.9	432.8	0.84	0.84	0.11	-17.0	6.6
5,285.0	12.50	108.10	5,210.3	-326.3	452.2	0.13	-0.11	-0.32	-20.2	8.7
5,380.0	11.90	108.90	5,303.2	-332.7	471.3	0.66	-0.63	0.84	-22.8	11.1

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #504H
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Well:	#504H	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)
5,475.0	11.60	109.30	5,396.2	-339.0	489.6	0.33	-0.32	0.42	-24.6	13.3
5,569.0	11.60	108.80	5,488.3	-345.2	507.4	0.11	0.00	-0.53	-26.3	15.0
5,664.0	11.10	109.60	5,581.4	-351.3	525.1	0.55	-0.53	0.84	-27.3	17.4
5,758.0	11.10	110.50	5,673.7	-357.5	542.1	0.18	0.00	0.96	-27.8	19.5
5,853.0	8.90	122.60	5,767.2	-364.7	556.8	3.19	-2.32	12.74	-22.0	24.5
5,948.0	6.90	133.90	5,861.3	-372.6	567.1	2.66	-2.11	11.89	-12.9	24.2
6,042.0	6.70	133.30	5,954.7	-380.3	575.2	0.23	-0.21	-0.64	-8.1	18.9
6,137.0	6.50	132.60	6,049.0	-387.7	583.2	0.23	-0.21	-0.74	-5.5	14.5
6,231.0	7.50	110.70	6,142.3	-393.5	592.9	3.01	1.06	-23.30	-10.4	10.4
6,326.0	8.30	103.50	6,236.4	-397.3	605.3	1.34	0.84	-7.58	-16.7	10.0
6,421.0	6.90	90.00	6,330.6	-398.9	617.7	2.38	-1.47	-14.21	-26.5	6.3
6,515.0	5.50	56.60	6,424.1	-396.4	627.1	4.04	-1.49	-35.53	-33.8	-10.8
6,610.0	5.10	44.80	6,518.7	-390.9	633.9	1.22	-0.42	-12.42	-39.5	-18.5
6,704.0	2.90	8.70	6,612.5	-385.6	637.2	3.45	-2.34	-38.40	-26.9	-40.6
6,893.0	2.70	351.40	6,801.2	-376.5	637.2	0.46	-0.11	-9.15	-22.6	-48.2
6,988.0	2.50	351.80	6,896.2	-372.2	636.6	0.21	-0.21	0.42	-27.2	-48.0
7,082.0	2.10	350.20	6,990.1	-368.5	636.0	0.43	-0.43	-1.70	-29.7	-48.8
7,177.0	1.50	354.30	7,085.0	-365.5	635.6	0.65	-0.63	4.32	-36.1	-46.5
7,271.0	1.60	344.80	7,179.0	-363.0	635.1	0.29	0.11	-10.11	-30.4	-52.0
7,366.0	1.20	339.80	7,274.0	-360.8	634.5	0.44	-0.42	-5.26	-28.1	-54.5
7,460.0	1.10	333.80	7,367.9	-359.1	633.7	0.17	-0.11	-6.38	-24.1	-57.3
7,460.9	1.10	333.80	7,368.9	-359.1	633.7	0.00	0.00	0.00	-24.1	-57.3
Brushy Top(Python 36 State #504H)										
7,650.0	0.50	288.20	7,557.9	-357.2	632.1	0.44	-0.32	-24.12	21.9	-58.6
7,838.0	0.70	283.10	7,745.9	-356.7	630.2	0.11	0.11	-2.71	25.1	-56.5
7,932.0	0.40	248.90	7,839.9	-356.7	629.4	0.46	-0.32	-36.38	51.7	-32.9
8,027.0	0.70	243.60	7,934.9	-357.0	628.5	0.32	0.32	-5.58	53.6	-28.1

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Well:	#504H	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)
8,121.0	0.60	208.80	8,028.9	-357.7	627.8	0.43	-0.11	-37.02	59.1	7.2
8,215.0	0.80	195.30	8,122.9	-358.8	627.4	0.27	0.21	-14.36	54.6	20.7
8,404.0	1.10	190.40	8,311.9	-361.8	626.7	0.16	0.16	-2.59	49.5	25.2
8,592.0	1.80	210.60	8,499.8	-366.2	624.9	0.46	0.37	10.74	50.5	7.2
8,687.0	1.90	215.30	8,594.8	-368.7	623.2	0.19	0.11	4.95	47.9	3.1
8,781.0	2.00	222.30	8,688.7	-371.2	621.2	0.27	0.11	7.45	44.7	-2.5
8,876.0	2.40	231.20	8,783.6	-373.7	618.5	0.55	0.42	9.37	40.2	-9.2
8,970.0	2.70	234.00	8,877.5	-376.2	615.2	0.35	0.32	2.98	35.5	-11.0
9,064.0	3.00	240.30	8,971.4	-378.7	611.3	0.46	0.32	6.70	29.4	-14.6
9,159.0	3.50	250.60	9,066.3	-380.9	606.4	0.81	0.53	10.84	21.0	-19.2
9,253.0	4.10	255.50	9,160.1	-382.7	600.4	0.73	0.64	5.21	13.0	-20.7
9,348.0	1.50	210.70	9,255.0	-384.6	596.5	3.38	-2.74	-47.16	20.2	-7.0
9,442.0	2.60	155.30	9,348.9	-387.6	596.8	2.28	1.17	-58.94	15.1	11.1
9,536.0	1.40	153.10	9,442.8	-390.6	598.2	1.28	-1.28	-2.34	11.4	11.6
9,631.0	0.70	199.00	9,537.8	-392.2	598.5	1.10	-0.74	48.32	14.9	0.7
9,725.0	0.50	284.50	9,631.8	-392.6	597.9	0.88	-0.21	90.96	1.4	-14.2
9,819.0	1.80	300.20	9,725.8	-391.8	596.2	1.41	1.38	16.70	-4.3	-14.0
9,913.0	2.70	305.10	9,819.7	-389.8	593.2	0.98	0.96	5.21	-9.2	-13.4
10,007.0	3.20	303.50	9,913.6	-387.0	589.2	0.54	0.53	-1.70	-13.6	-13.7
10,102.0	3.90	317.90	10,008.4	-383.2	584.8	1.19	0.74	15.16	-22.4	-9.3
10,196.0	3.70	318.20	10,102.2	-378.6	580.6	0.21	-0.21	0.32	-28.7	-9.1
10,241.0	3.40	317.60	10,147.1	-376.5	578.7	0.67	-0.67	-1.33	-31.4	-9.4
10,305.0	5.11	331.43	10,211.0	-372.6	576.1	3.10	2.67	21.61	-36.8	-0.8
KOP, MD:10305.0', TVD:10211.0', N/S:-372.6', E/W:576.1', INC:5.11										
10,336.0	6.00	335.20	10,241.8	-369.9	574.8	3.10	2.87	12.15	-37.6	2.7
10,417.8	14.23	7.33	10,322.3	-356.0	574.3	11.83	10.06	39.27	-29.5	22.4
FTP Crossing, MD:10417.8', TVD:10322.3', N/S:-356.0', E/W:574.3', INC:14.23										

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #504H
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:	#504H	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)
10,430.0	15.60	9.10	10,334.1	-352.9	574.7	11.83	11.23	14.55	-28.7	22.8
10,525.0	27.50	3.30	10,422.3	-318.3	578.0	12.71	12.53	-6.11	-31.6	16.4
10,620.0	38.10	2.30	10,502.1	-266.9	580.4	11.17	11.16	-1.05	-34.6	13.2
10,715.0	46.80	4.70	10,572.1	-203.0	584.5	9.31	9.16	2.53	-36.3	9.8
10,717.1	46.95	4.72	10,573.5	-201.5	584.6	7.17	7.12	1.06	-36.3	9.7
FTP (Python 36 State #504H)										
10,809.0	53.50	5.60	10,632.3	-131.2	591.0	7.17	7.13	0.96	-34.5	2.8
10,904.0	63.50	5.10	10,681.9	-50.6	598.5	10.54	10.53	-0.53	-29.9	-5.9
10,998.0	71.60	3.70	10,717.7	35.9	605.1	8.73	8.62	-1.49	-23.6	-13.6
11,092.0	85.60	1.50	10,736.3	127.7	609.2	15.07	14.89	-2.34	-19.3	-18.4
11,187.0	89.40	359.20	10,740.4	222.6	609.8	4.67	4.00	-2.42	-16.5	-19.4
11,283.0	89.00	359.30	10,741.8	318.6	608.6	0.43	-0.42	0.10	-15.1	-18.6
11,377.0	89.20	359.60	10,743.2	412.6	607.7	0.38	0.21	0.32	-13.5	-18.1
11,472.0	89.50	359.80	10,744.3	507.6	607.2	0.38	0.32	0.21	-12.4	-17.9
11,566.0	89.80	0.60	10,744.9	601.6	607.5	0.91	0.32	0.85	-11.7	-18.7
11,661.0	90.10	0.50	10,745.0	696.6	608.4	0.33	0.32	-0.11	-11.5	-20.0
11,755.0	90.20	0.70	10,744.7	790.6	609.4	0.24	0.11	0.21	-11.7	-21.3
11,850.0	91.10	0.60	10,743.6	885.5	610.5	0.95	0.95	-0.11	-12.7	-22.8
11,944.0	89.80	0.30	10,742.9	979.5	611.2	1.42	-1.38	-0.32	-13.3	-23.9
12,039.0	88.40	358.40	10,744.4	1,074.5	610.1	2.48	-1.47	-2.00	-11.8	-23.2
12,133.0	88.40	358.30	10,747.0	1,168.4	607.4	0.11	0.00	-0.11	-9.1	-20.9
12,228.0	88.20	358.30	10,749.8	1,263.4	604.6	0.21	-0.21	0.00	-6.1	-18.5
12,322.0	88.60	358.20	10,752.5	1,357.3	601.7	0.44	0.43	-0.11	-3.4	-16.0
12,417.0	88.50	358.30	10,754.9	1,452.2	598.8	0.15	-0.11	0.11	-1.0	-13.5
12,511.0	88.70	357.80	10,757.2	1,546.1	595.0	0.57	0.21	-0.53	1.4	-10.7
12,606.0	88.50	357.00	10,759.5	1,641.0	591.3	0.87	-0.21	-0.84	3.8	-6.7
12,701.0	88.60	356.30	10,761.9	1,735.8	585.8	0.74	0.11	-0.74	6.3	-1.6

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #504H
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:	#504H	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)
12,795.0	91.50	358.30	10,761.8	1,829.7	581.4	3.75	3.09	2.13	6.3	2.5
12,890.0	92.00	358.50	10,758.9	1,924.6	578.7	0.57	0.53	0.21	3.5	4.7
12,984.0	92.60	358.70	10,755.1	2,018.5	576.4	0.67	0.64	0.21	-0.2	6.6
13,079.0	92.80	358.80	10,750.7	2,113.4	574.3	0.24	0.21	0.11	-4.6	8.3
13,174.0	93.80	358.30	10,745.2	2,208.2	571.9	1.18	1.05	-0.53	-10.0	10.3
13,268.0	90.90	359.60	10,741.3	2,302.1	570.2	3.38	-3.09	1.38	-13.8	11.7
13,363.0	91.30	359.40	10,739.5	2,397.0	569.4	0.47	0.42	-0.21	-15.5	12.1
13,457.0	91.90	359.30	10,736.9	2,491.0	568.3	0.65	0.64	-0.11	-18.0	12.8
13,552.0	92.70	359.20	10,733.1	2,585.9	567.1	0.85	0.84	-0.11	-21.8	13.6
13,647.0	90.70	0.40	10,730.3	2,680.9	566.8	2.45	-2.11	1.26	-24.5	13.6
13,742.0	88.40	0.80	10,731.0	2,775.9	567.7	2.46	-2.42	0.42	-23.7	12.2
13,836.0	88.80	1.00	10,733.3	2,869.8	569.2	0.48	0.43	0.21	-21.3	10.3
13,931.0	89.40	0.70	10,734.8	2,964.8	570.6	0.71	0.63	-0.32	-19.7	8.5
14,026.0	89.70	0.30	10,735.5	3,059.8	571.5	0.53	0.32	-0.42	-18.9	7.3
14,120.0	90.40	0.20	10,735.5	3,153.8	571.9	0.75	0.74	-0.11	-18.9	6.5
14,215.0	91.20	0.30	10,734.1	3,248.8	572.3	0.85	0.84	0.11	-20.1	5.7
14,310.0	92.10	0.30	10,731.4	3,343.7	572.8	0.95	0.95	0.00	-22.8	4.8
14,404.0	91.80	1.70	10,728.2	3,437.7	574.4	1.52	-0.32	1.49	-25.9	2.8
14,499.0	92.40	1.90	10,724.7	3,532.5	577.4	0.67	0.63	0.21	-29.3	-0.6
14,593.0	88.80	1.20	10,723.7	3,626.5	579.9	3.90	-3.83	-0.74	-30.2	-3.5
14,688.0	89.60	1.10	10,725.1	3,721.5	581.9	0.85	0.84	-0.11	-28.8	-5.8
14,782.0	90.20	1.10	10,725.2	3,815.4	583.7	0.64	0.64	0.00	-28.6	-8.0
14,877.0	89.80	1.30	10,725.2	3,910.4	585.6	0.47	-0.42	0.21	-28.5	-10.4
14,972.0	90.20	1.20	10,725.2	4,005.4	587.7	0.43	0.42	-0.11	-28.4	-12.8
15,066.0	87.50	0.10	10,727.1	4,099.4	588.8	3.10	-2.87	-1.17	-26.4	-14.3
15,161.0	88.20	0.20	10,730.7	4,194.3	589.0	0.74	0.74	0.11	-22.8	-14.9
15,255.0	88.80	0.50	10,733.1	4,288.3	589.6	0.71	0.64	0.32	-20.2	-15.9

eog resources

Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #504H
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:	#504H	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)
15,350.0	89.50	0.60	10,734.5	4,383.2	590.5	0.74	0.74	0.11	-18.7	-17.2
15,444.0	89.20	0.70	10,735.6	4,477.2	591.6	0.34	-0.32	0.11	-17.6	-18.6
15,539.0	90.10	0.80	10,736.2	4,572.2	592.8	0.95	0.95	0.11	-16.9	-20.3
15,621.0	90.60	0.90	10,735.7	4,654.2	594.0	0.62	0.61	0.12	-17.4	-21.8
Last MWD Survey (MD=15621.0')										
15,679.0	90.60	0.90	10,735.1	4,712.2	595.0	0.00	0.00	0.00	-17.9	-23.0
Projection to Bit (MD=15679.0') - PBHL (Python 36 State #504H)										

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
10,305.0	10,211.0	-372.6	576.1	KOP, MD:10305.0', TVD:10211.0',N/S:-372.6', E/W:576.1', INC:5.11
10,417.8	10,322.3	-356.0	574.3	FTP Crossing, MD:10417.8', TVD:10322.3',N/S:-356.0', E/W:574.3', INC:14.23
15,621.0	10,735.7	4,654.2	594.0	Last MWD Survey (MD=15621.0')
15,679.0	10,735.1	4,712.2	595.0	Projection to Bit (MD=15679.0')

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*

eog resources

Lea County, NM (NAD 83 NME)

Python 36 State Com #504H

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

Azimuths to Grid North
True North: -0.37°
Magnetic North: 6.32°

Magnetic Field
Strength: 47631.2nT
Dip Angle: 59.97°
Date: 1/20/2020
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 6.32°
To convert a Magnetic Direction to a True Direction, Add 6.70° East
To convert a True Direction to a Grid Direction, Subtract 0.37°

WELL DETAILS: #504H

3559.0
KB = 25 @ 3584.0usft

Northing	Easting	Latitude	Longitude
425608.00	758537.00	32° 10' 5.258 N	103° 37' 52.992 W

SECTION DETAILS

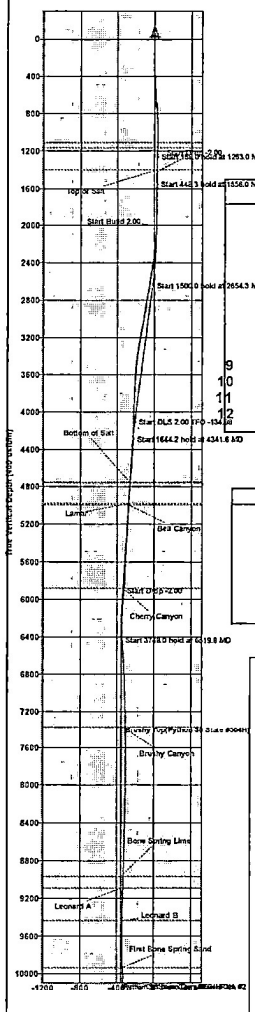
	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
	1263.0	2.70	231.60	1258.9	38.6	-64.9	0.00	0.00	30.5	
	1421.0	2.70	231.60	1416.7	34.0	-70.7	0.00	0.00	25.2	
	1556.0	0.00	0.00	1551.7	32.0	-73.2	2.00	180.00	22.9	
	2004.3	0.00	0.00	2000.0	32.0	-73.2	0.00	0.00	22.9	
	2654.3	13.00	130.00	2644.4	-15.2	-17.0	2.00	130.00	-17.1	
	4154.3	13.00	130.00	4106.0	-232.1	241.5	0.00	0.00	-201.3	
	4341.6	10.68	115.56	4289.4	-253.1	273.3	2.00	-134.98	-218.4	
	5985.8	10.68	115.56	5905.1	-384.6	548.2	0.00	0.00	-315.8	
9	6519.8	0.00	0.00	6436.0	-406.0	593.0	2.00	180.00	-331.6	
10	10267.8	0.00	0.00	10184.0	-406.0	593.0	0.00	0.00	-331.6	
11	11168.3	90.05	359.77	10757.0	167.4	590.6	10.00	359.77	237.4	
12	15714.0	90.05	359.77	10753.0	4713.0	572.0	0.00	0.00	4747.6	PBHL (Python 36 State #504H)

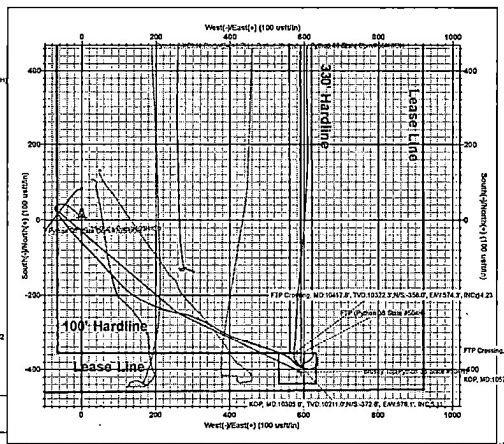
CASING DETAILS

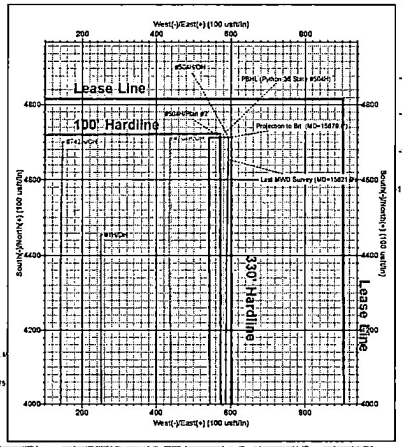
No casing data is available

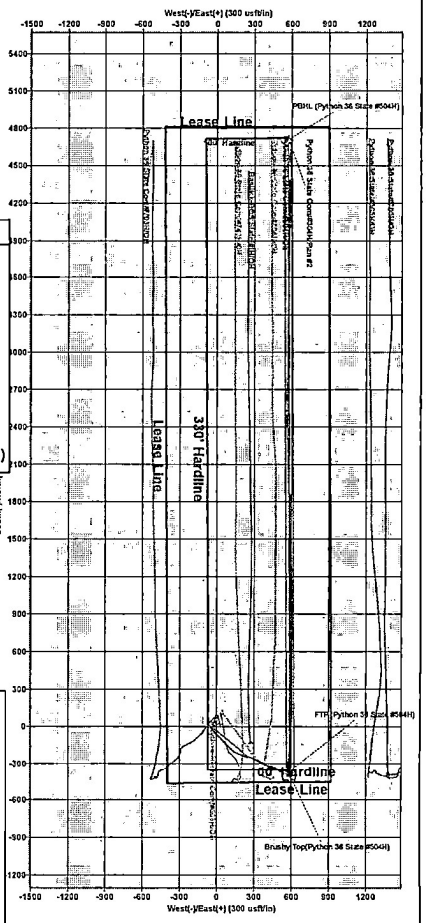
WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

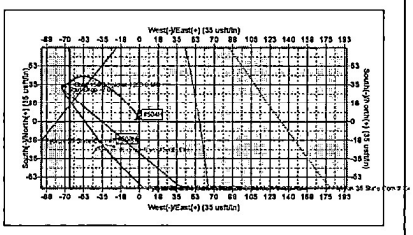
Name	TVD	+N/-S	+E/-W	Northing	Easting
Brushy Top(Python 36 State #504H)	7359.0	-406.0	593.0	425202.00	759130.00
PBHL (Python 36 State #504H)	10753.0	4713.0	572.0	430321.00	759109.00
FTP (Python 36 State #504H)	10757.0	-356.0	593.0	425252.00	759130.00

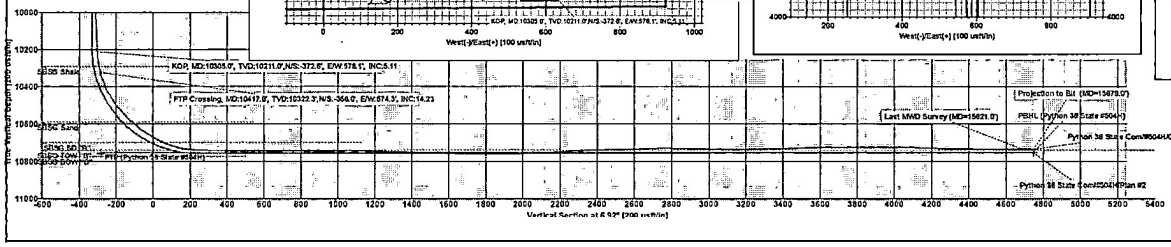


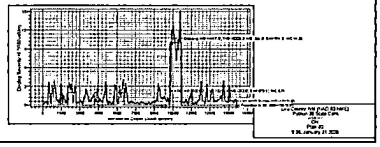












Intent [ ] As Drilled [XXX]

API #
30-025-46607

Operator Name:	Property Name:	Well Number
EOG RESOURCES, INC	PYTHON 36 STATE COM	504H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
N	36	24S	32E		83	SOUTH	2287	WEST	LEA

Latitude	Longitude	NAD
32.1670924	103.6295328	1983

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
N	36	24S	32E		523	SOUTH	2320	WEST	LEA

Latitude	Longitude	NAD
32.1683010	103.6294252	1983

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
C	36	24S	32E		130	NORTH	2331	WEST	LEA

Latitude	Longitude	NAD
32.1810176	103.6293657	1983

Is this well the defining well for the Horizontal Spacing Unit? [YES]

Is this well an infill well? [NO]

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

API #

Operator Name:	Property Name:	Well Number
EOG RESOURCES, INC		

KZ 06/29/2018

EOG Resources - Midland

Lea County, NM (NAD 83 NME)
Python 36 State Com
#504H
OH

Design: OH

Midland PVA

31 January, 2020

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #504H
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:	#504H	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 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	#504H				
Well Position	+N/-S	0.0 usft	Northing:	425,608.00 usft	Latitude:	32° 10' 5.258 N
	+E/-W	0.0 usft	Easting:	758,537.00 usft	Longitude:	103° 37' 52.992 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	1/20/2020	6.70	59.97	47,631.21364691

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	6.92

Survey Program	Date 1/31/2020			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
190.0	15,679.0	Prodirectional (OH)	EOG MWD+IFR1	MWD + IFR1

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #504H
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:	#504H	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
190.0	0.90	333.40	190.0	1.3	-0.7	0.47	0.47	0.00	0.0	0.0
304.0	1.50	345.30	304.0	3.6	-1.4	0.57	0.53	10.44	0.0	0.0
391.0	1.60	345.20	390.9	5.9	-2.0	0.11	0.11	-0.11	0.0	0.0
513.0	5.70	316.10	512.7	11.9	-6.7	3.58	3.36	-23.85	0.0	0.0
659.0	6.00	316.00	657.9	22.6	-17.0	0.21	0.21	-0.07	0.0	0.0
753.0	8.80	306.90	751.1	30.4	-26.2	3.22	2.98	-9.68	0.0	0.0
848.0	8.20	299.20	845.1	38.1	-37.9	1.35	-0.63	-8.11	0.0	0.0
942.0	5.10	282.70	938.4	42.3	-47.8	3.84	-3.30	-17.55	0.0	0.0
1,037.0	3.30	261.70	1,033.2	42.8	-54.7	2.46	-1.89	-22.11	0.0	0.0
1,131.0	2.70	249.20	1,127.1	41.7	-59.4	0.94	-0.64	-13.30	0.0	0.0
1,226.0	2.80	237.70	1,222.0	39.6	-63.5	0.59	0.11	-12.11	0.0	0.0
1,263.0	2.70	231.60	1,258.9	38.6	-64.9	0.84	-0.27	-16.49	0.0	0.0
1,411.0	2.50	226.40	1,406.8	34.2	-70.0	0.21	-0.14	-3.51	0.2	0.3
1,505.0	0.90	93.60	1,500.7	32.7	-70.7	3.38	-1.70	-141.28	-2.1	0.6
1,600.0	1.20	95.20	1,595.7	32.6	-69.0	0.32	0.32	1.68	-4.2	1.0
1,694.0	0.30	292.80	1,689.7	32.6	-68.2	1.58	-0.96	-172.77	4.4	-2.5
1,789.0	1.30	291.40	1,784.7	33.1	-69.5	1.05	1.05	-1.47	3.1	-2.4
1,883.0	1.10	286.10	1,878.7	33.7	-71.3	0.24	-0.21	-5.64	1.3	-2.2
1,978.0	0.70	247.20	1,973.7	33.8	-72.7	0.75	-0.42	-40.95	1.1	-1.4
2,072.0	2.60	161.20	2,067.6	31.5	-72.6	2.81	2.02	-91.49	0.0	0.1
2,167.0	5.80	147.30	2,162.4	25.4	-69.3	3.51	3.37	-14.63	-3.2	-1.6
2,261.0	8.10	143.40	2,255.7	16.1	-62.8	2.50	2.45	-4.15	-7.8	-3.7
2,356.0	11.30	143.40	2,349.3	3.3	-53.2	3.37	3.37	0.00	-14.1	-6.1
2,450.0	11.60	143.50	2,441.4	-11.7	-42.1	0.32	0.32	0.11	-20.1	-9.1
2,545.0	12.80	140.30	2,534.3	-27.5	-29.7	1.45	1.26	-3.37	-23.7	-13.7
2,639.0	15.30	135.60	2,625.5	-44.4	-14.4	2.92	2.66	-5.00	-26.3	-18.3

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #504H
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:	#504H	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)
2,734.0	15.40	134.70	2,717.1	-62.2	3.3	0.27	0.11	-0.95	-30.0	-20.6
2,828.0	15.00	135.00	2,807.8	-79.6	20.8	0.43	-0.43	0.32	-33.8	-22.2
2,923.0	14.90	135.70	2,899.6	-97.0	38.0	0.22	-0.11	0.74	-37.4	-23.8
3,017.0	15.00	138.70	2,990.4	-114.8	54.5	0.83	0.11	3.19	-42.0	-24.4
3,112.0	14.90	136.90	3,082.2	-132.9	71.0	0.50	-0.11	-1.89	-44.6	-28.7
3,206.0	14.90	137.60	3,173.0	-150.7	87.4	0.19	0.00	0.74	-48.2	-30.8
3,301.0	14.40	135.80	3,264.9	-168.2	103.9	0.71	-0.53	-1.89	-50.1	-34.8
3,396.0	13.50	133.30	3,357.1	-184.3	120.2	1.14	-0.95	-2.63	-50.2	-38.6
3,490.0	12.60	123.30	3,448.7	-197.4	136.7	2.58	-0.96	-10.64	-43.0	-46.0
3,680.0	10.90	115.30	3,634.7	-216.5	170.3	1.24	-0.89	-4.21	-33.3	-43.4
3,775.0	10.50	114.30	3,728.1	-223.9	186.3	0.46	-0.42	-1.05	-29.5	-38.4
3,869.0	10.00	111.90	3,820.6	-230.4	201.7	0.70	-0.53	-2.55	-24.4	-33.4
3,964.0	9.10	112.00	3,914.3	-236.3	216.3	0.95	-0.95	0.11	-19.8	-26.7
4,058.0	9.70	106.00	4,007.0	-241.3	230.8	1.22	0.64	-6.38	-12.8	-20.8
4,152.0	11.00	100.40	4,099.5	-245.1	247.2	1.75	1.38	-5.96	-9.1	-12.2
4,246.0	10.30	99.70	4,191.9	-248.1	264.3	0.76	-0.74	-0.74	-8.3	-3.1
4,341.0	9.90	102.00	4,285.4	-251.3	280.7	0.60	-0.42	2.42	-7.4	3.2
4,436.0	11.80	110.30	4,378.7	-256.3	297.8	2.58	2.00	8.74	-7.2	7.1
4,531.0	11.70	112.50	4,471.7	-263.4	315.8	0.48	-0.11	2.32	-8.7	8.6
4,625.0	12.30	116.20	4,563.6	-271.5	333.6	1.04	0.64	3.94	-10.3	9.6
4,719.0	12.30	119.20	4,655.5	-280.8	351.3	0.68	0.00	3.19	-12.4	9.5
4,814.0	12.00	120.30	4,748.4	-290.7	368.7	0.40	-0.32	1.16	-14.8	8.5
5,002.0	8.80	117.70	4,933.2	-307.2	398.3	1.72	-1.70	-1.38	-14.2	5.7
5,096.0	11.80	108.30	5,025.7	-313.6	413.8	3.65	3.19	-10.00	-14.3	4.3
5,191.0	12.60	108.40	5,118.6	-319.9	432.8	0.84	0.84	0.11	-17.0	6.6
5,285.0	12.50	108.10	5,210.3	-326.3	452.2	0.13	-0.11	-0.32	-20.2	8.7
5,380.0	11.90	108.90	5,303.2	-332.7	471.3	0.66	-0.63	0.84	-22.8	11.1

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #504H
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:	#504H	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)
5,475.0	11.60	109.30	5,396.2	-339.0	489.6	0.33	-0.32	0.42	-24.6	13.3
5,569.0	11.60	108.80	5,488.3	-345.2	507.4	0.11	0.00	-0.53	-26.3	15.0
5,664.0	11.10	109.60	5,581.4	-351.3	525.1	0.55	-0.53	0.84	-27.3	17.4
5,758.0	11.10	110.50	5,673.7	-357.5	542.1	0.18	0.00	0.96	-27.8	19.5
5,853.0	8.90	122.60	5,767.2	-364.7	556.8	3.19	-2.32	12.74	-22.0	24.5
5,948.0	6.90	133.90	5,861.3	-372.6	567.1	2.66	-2.11	11.89	-12.9	24.2
6,042.0	6.70	133.30	5,954.7	-380.3	575.2	0.23	-0.21	-0.64	-8.1	18.9
6,137.0	6.50	132.60	6,049.0	-387.7	583.2	0.23	-0.21	-0.74	-5.5	14.5
6,231.0	7.50	110.70	6,142.3	-393.5	592.9	3.01	1.06	-23.30	-10.4	10.4
6,326.0	8.30	103.50	6,236.4	-397.3	605.3	1.34	0.84	-7.58	-16.7	10.0
6,421.0	6.90	90.00	6,330.6	-398.9	617.7	2.38	-1.47	-14.21	-26.5	6.3
6,515.0	5.50	56.60	6,424.1	-396.4	627.1	4.04	-1.49	-35.53	-33.8	-10.8
6,610.0	5.10	44.80	6,518.7	-390.9	633.9	1.22	-0.42	-12.42	-39.5	-18.5
6,704.0	2.90	8.70	6,612.5	-385.6	637.2	3.45	-2.34	-38.40	-26.9	-40.6
6,893.0	2.70	351.40	6,801.2	-376.5	637.2	0.46	-0.11	-9.15	-22.6	-48.2
6,988.0	2.50	351.80	6,896.2	-372.2	636.6	0.21	-0.21	0.42	-27.2	-48.0
7,082.0	2.10	350.20	6,990.1	-368.5	636.0	0.43	-0.43	-1.70	-29.7	-48.8
7,177.0	1.50	354.30	7,085.0	-365.5	635.6	0.65	-0.63	4.32	-36.1	-46.5
7,271.0	1.60	344.80	7,179.0	-363.0	635.1	0.29	0.11	-10.11	-30.4	-52.0
7,366.0	1.20	339.80	7,274.0	-360.8	634.5	0.44	-0.42	-5.26	-28.1	-54.5
7,460.0	1.10	333.80	7,367.9	-359.1	633.7	0.17	-0.11	-6.38	-24.1	-57.3
7,460.9	1.10	333.80	7,368.9	-359.1	633.7	0.00	0.00	0.00	-24.1	-57.3
Brushy Top(Python 36 State #504H)										
7,650.0	0.50	288.20	7,557.9	-357.2	632.1	0.44	-0.32	-24.12	21.9	-58.6
7,838.0	0.70	283.10	7,745.9	-356.7	630.2	0.11	0.11	-2.71	25.1	-56.5
7,932.0	0.40	248.90	7,839.9	-356.7	629.4	0.46	-0.32	-36.38	51.7	-32.9
8,027.0	0.70	243.60	7,934.9	-357.0	628.5	0.32	0.32	-5.58	53.6	-28.1

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #504H
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:	#504H	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)
8,121.0	0.60	208.80	8,028.9	-357.7	627.8	0.43	-0.11	-37.02	59.1	7.2
8,215.0	0.80	195.30	8,122.9	-358.8	627.4	0.27	0.21	-14.36	54.6	20.7
8,404.0	1.10	190.40	8,311.9	-361.8	626.7	0.16	0.16	-2.59	49.5	25.2
8,592.0	1.80	210.60	8,499.8	-366.2	624.9	0.46	0.37	10.74	50.5	7.2
8,687.0	1.90	215.30	8,594.8	-368.7	623.2	0.19	0.11	4.95	47.9	3.1
8,781.0	2.00	222.30	8,688.7	-371.2	621.2	0.27	0.11	7.45	44.7	-2.5
8,876.0	2.40	231.20	8,783.6	-373.7	618.5	0.55	0.42	9.37	40.2	-9.2
8,970.0	2.70	234.00	8,877.5	-376.2	615.2	0.35	0.32	2.98	35.5	-11.0
9,064.0	3.00	240.30	8,971.4	-378.7	611.3	0.46	0.32	6.70	29.4	-14.6
9,159.0	3.50	250.60	9,066.3	-380.9	606.4	0.81	0.53	10.84	21.0	-19.2
9,253.0	4.10	255.50	9,160.1	-382.7	600.4	0.73	0.64	5.21	13.0	-20.7
9,348.0	1.50	210.70	9,255.0	-384.6	596.5	3.38	-2.74	-47.16	20.2	-7.0
9,442.0	2.60	155.30	9,348.9	-387.6	596.8	2.28	1.17	-58.94	15.1	11.1
9,536.0	1.40	153.10	9,442.8	-390.6	598.2	1.28	-1.28	-2.34	11.4	11.6
9,631.0	0.70	199.00	9,537.8	-392.2	598.5	1.10	-0.74	48.32	14.9	0.7
9,725.0	0.50	284.50	9,631.8	-392.6	597.9	0.88	-0.21	90.96	1.4	-14.2
9,819.0	1.80	300.20	9,725.8	-391.8	596.2	1.41	1.38	16.70	-4.3	-14.0
9,913.0	2.70	305.10	9,819.7	-389.8	593.2	0.98	0.96	5.21	-9.2	-13.4
10,007.0	3.20	303.50	9,913.6	-387.0	589.2	0.54	0.53	-1.70	-13.6	-13.7
10,102.0	3.90	317.90	10,008.4	-383.2	584.8	1.19	0.74	15.16	-22.4	-9.3
10,196.0	3.70	318.20	10,102.2	-378.6	580.6	0.21	-0.21	0.32	-28.7	-9.1
10,241.0	3.40	317.60	10,147.1	-376.5	578.7	0.67	-0.67	-1.33	-31.4	-9.4
10,305.0	5.11	331.43	10,211.0	-372.6	576.1	3.10	2.67	21.61	-36.8	-0.8
KOP, MD:10305.0', TVD:10211.0', N/S:-372.6', E/W:576.1', INC:5.11										
10,336.0	6.00	335.20	10,241.8	-369.9	574.8	3.10	2.87	12.15	-37.6	2.7
10,417.8	14.23	7.33	10,322.3	-356.0	574.3	11.83	10.06	39.27	-29.5	22.4
FTP Crossing, MD:10417.8', TVD:10322.3', N/S:-356.0', E/W:574.3', INC:14.23										

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #504H
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:	#504H	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)
10,430.0	15.60	9.10	10,334.1	-352.9	574.7	11.83	11.23	14.55	-28.7	22.8
10,525.0	27.50	3.30	10,422.3	-318.3	578.0	12.71	12.53	-6.11	-31.6	16.4
10,620.0	38.10	2.30	10,502.1	-266.9	580.4	11.17	11.16	-1.05	-34.6	13.2
10,715.0	46.80	4.70	10,572.1	-203.0	584.5	9.31	9.16	2.53	-36.3	9.8
10,717.1	46.95	4.72	10,573.5	-201.5	584.6	7.17	7.12	1.06	-36.3	9.7
FTP (Python 36 State #504H)										
10,809.0	53.50	5.60	10,632.3	-131.2	591.0	7.17	7.13	0.96	-34.5	2.8
10,904.0	63.50	5.10	10,681.9	-50.6	598.5	10.54	10.53	-0.53	-29.9	-5.9
10,998.0	71.60	3.70	10,717.7	35.9	605.1	8.73	8.62	-1.49	-23.6	-13.6
11,092.0	85.60	1.50	10,736.3	127.7	609.2	15.07	14.89	-2.34	-19.3	-18.4
11,187.0	89.40	359.20	10,740.4	222.6	609.8	4.67	4.00	-2.42	-16.5	-19.4
11,283.0	89.00	359.30	10,741.8	318.6	608.6	0.43	-0.42	0.10	-15.1	-18.6
11,377.0	89.20	359.60	10,743.2	412.6	607.7	0.38	0.21	0.32	-13.5	-18.1
11,472.0	89.50	359.80	10,744.3	507.6	607.2	0.38	0.32	0.21	-12.4	-17.9
11,566.0	89.80	0.60	10,744.9	601.6	607.5	0.91	0.32	0.85	-11.7	-18.7
11,661.0	90.10	0.50	10,745.0	696.6	608.4	0.33	0.32	-0.11	-11.5	-20.0
11,755.0	90.20	0.70	10,744.7	790.6	609.4	0.24	0.11	0.21	-11.7	-21.3
11,850.0	91.10	0.60	10,743.6	885.5	610.5	0.95	0.95	-0.11	-12.7	-22.8
11,944.0	89.80	0.30	10,742.9	979.5	611.2	1.42	-1.38	-0.32	-13.3	-23.9
12,039.0	88.40	358.40	10,744.4	1,074.5	610.1	2.48	-1.47	-2.00	-11.8	-23.2
12,133.0	88.40	358.30	10,747.0	1,168.4	607.4	0.11	0.00	-0.11	-9.1	-20.9
12,228.0	88.20	358.30	10,749.8	1,263.4	604.6	0.21	-0.21	0.00	-6.1	-18.5
12,322.0	88.60	358.20	10,752.5	1,357.3	601.7	0.44	0.43	-0.11	-3.4	-16.0
12,417.0	88.50	358.30	10,754.9	1,452.2	598.8	0.15	-0.11	0.11	-1.0	-13.5
12,511.0	88.70	357.80	10,757.2	1,546.1	595.0	0.57	0.21	-0.53	1.4	-10.7
12,606.0	88.50	357.00	10,759.5	1,641.0	591.3	0.87	-0.21	-0.84	3.8	-6.7
12,701.0	88.60	356.30	10,761.9	1,735.8	585.8	0.74	0.11	-0.74	6.3	-1.6

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #504H
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:	#504H	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)
12,795.0	91.50	358.30	10,761.8	1,829.7	581.4	3.75	3.09	2.13	6.3	2.5
12,890.0	92.00	358.50	10,758.9	1,924.6	578.7	0.57	0.53	0.21	3.5	4.7
12,984.0	92.60	358.70	10,755.1	2,018.5	576.4	0.67	0.64	0.21	-0.2	6.6
13,079.0	92.80	358.80	10,750.7	2,113.4	574.3	0.24	0.21	0.11	-4.6	8.3
13,174.0	93.80	358.30	10,745.2	2,208.2	571.9	1.18	1.05	-0.53	-10.0	10.3
13,268.0	90.90	359.60	10,741.3	2,302.1	570.2	3.38	-3.09	1.38	-13.8	11.7
13,363.0	91.30	359.40	10,739.5	2,397.0	569.4	0.47	0.42	-0.21	-15.5	12.1
13,457.0	91.90	359.30	10,736.9	2,491.0	568.3	0.65	0.64	-0.11	-18.0	12.8
13,552.0	92.70	359.20	10,733.1	2,585.9	567.1	0.85	0.84	-0.11	-21.8	13.6
13,647.0	90.70	0.40	10,730.3	2,680.9	566.8	2.45	-2.11	1.26	-24.5	13.6
13,742.0	88.40	0.80	10,731.0	2,775.9	567.7	2.46	-2.42	0.42	-23.7	12.2
13,836.0	88.80	1.00	10,733.3	2,869.8	569.2	0.48	0.43	0.21	-21.3	10.3
13,931.0	89.40	0.70	10,734.8	2,964.8	570.6	0.71	0.63	-0.32	-19.7	8.5
14,026.0	89.70	0.30	10,735.5	3,059.8	571.5	0.53	0.32	-0.42	-18.9	7.3
14,120.0	90.40	0.20	10,735.5	3,153.8	571.9	0.75	0.74	-0.11	-18.9	6.5
14,215.0	91.20	0.30	10,734.1	3,248.8	572.3	0.85	0.84	0.11	-20.1	5.7
14,310.0	92.10	0.30	10,731.4	3,343.7	572.8	0.95	0.95	0.00	-22.8	4.8
14,404.0	91.80	1.70	10,728.2	3,437.7	574.4	1.52	-0.32	1.49	-25.9	2.8
14,499.0	92.40	1.90	10,724.7	3,532.5	577.4	0.67	0.63	0.21	-29.3	-0.6
14,593.0	88.80	1.20	10,723.7	3,626.5	579.9	3.90	-3.83	-0.74	-30.2	-3.5
14,688.0	89.60	1.10	10,725.1	3,721.5	581.9	0.85	0.84	-0.11	-28.8	-5.8
14,782.0	90.20	1.10	10,725.2	3,815.4	583.7	0.64	0.64	0.00	-28.6	-8.0
14,877.0	89.80	1.30	10,725.2	3,910.4	585.6	0.47	-0.42	0.21	-28.5	-10.4
14,972.0	90.20	1.20	10,725.2	4,005.4	587.7	0.43	0.42	-0.11	-28.4	-12.8
15,066.0	87.50	0.10	10,727.1	4,099.4	588.8	3.10	-2.87	-1.17	-26.4	-14.3
15,161.0	88.20	0.20	10,730.7	4,194.3	589.0	0.74	0.74	0.11	-22.8	-14.9
15,255.0	88.80	0.50	10,733.1	4,288.3	589.6	0.71	0.64	0.32	-20.2	-15.9

eog resources

Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #504H
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:	#504H	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)
15,350.0	89.50	0.60	10,734.5	4,383.2	590.5	0.74	0.74	0.11	-18.7	-17.2
15,444.0	89.20	0.70	10,735.6	4,477.2	591.6	0.34	-0.32	0.11	-17.6	-18.6
15,539.0	90.10	0.80	10,736.2	4,572.2	592.8	0.95	0.95	0.11	-16.9	-20.3
15,621.0	90.60	0.90	10,735.7	4,654.2	594.0	0.62	0.61	0.12	-17.4	-21.8
Last MWD Survey (MD=15621.0')										
15,679.0	90.60	0.90	10,735.1	4,712.2	595.0	0.00	0.00	0.00	-17.9	-23.0
Projection to Bit (MD=15679.0') - PBHL (Python 36 State #504H)										

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
10,305.0	10,211.0	-372.6	576.1	KOP, MD:10305.0', TVD:10211.0',N/S:-372.6', E/W:576.1', INC:5.11
10,417.8	10,322.3	-356.0	574.3	FTP Crossing, MD:10417.8', TVD:10322.3',N/S:-356.0', E/W:574.3', INC:14.23
15,621.0	10,735.7	4,654.2	594.0	Last MWD Survey (MD=15621.0')
15,679.0	10,735.1	4,712.2	595.0	Projection to Bit (MD=15679.0')

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*

eog resources

Lea County, NM (NAD 83 NME)

Python 36 State Com #504H

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

Azimuths to Grid North
True North: -0.37°
Magnetic North: 6.32°

Magnetic Field
Strength: 47631.2nT
Dip Angle: 59.97°
Date: 1/20/2020
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 6.32°
To convert a Magnetic Direction to a True Direction, Add 6.70° East
To convert a True Direction to a Grid Direction, Subtract 0.37°

WELL DETAILS: #504H

3559.0
KB = 25 @ 3584.0usft

Northing	Easting	Latitude	Longitude
425608.00	758537.00	32° 10' 5.258 N	103° 37' 52.992 W

SECTION DETAILS

	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
	1263.0	2.70	231.60	1258.9	38.6	-64.9	0.00	0.00	30.5	
	1421.0	2.70	231.60	1416.7	34.0	-70.7	0.00	0.00	25.2	
	1556.0	0.00	0.00	1551.7	32.0	-73.2	2.00	180.00	22.9	
	2004.3	0.00	0.00	2000.0	32.0	-73.2	0.00	0.00	22.9	
	2654.3	13.00	130.00	2644.4	-15.2	-17.0	2.00	130.00	-17.1	
	4154.3	13.00	130.00	4106.0	-232.1	241.5	0.00	0.00	-201.3	
	4341.6	10.68	115.56	4289.4	-253.1	273.3	2.00	-134.98	-218.4	
	5985.8	10.68	115.56	5905.1	-384.6	548.2	0.00	0.00	-315.8	
9	6519.8	0.00	0.00	6436.0	-406.0	593.0	2.00	180.00	-331.6	
10	10267.8	0.00	0.00	10184.0	-406.0	593.0	0.00	0.00	-331.6	
11	11168.3	90.05	359.77	10757.0	167.4	590.6	10.00	359.77	237.4	
12	15714.0	90.05	359.77	10753.0	4713.0	572.0	0.00	0.00	4747.6	PBHL (Python 36 State #504H)

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 #504H)	7359.0	-406.0	593.0	425202.00	759130.00
PBHL (Python 36 State #504H)	10753.0	4713.0	572.0	430321.00	759109.00
FTP (Python 36 State #504H)	10757.0	-356.0	593.0	425252.00	759130.00