Submit 1 Copy To Appropriate District Office
District I – (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II – (575) 748-1283
811 S. First St., Artesia, NM 88210
District III – (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV – (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

HOBBS OCD
FEB 03 2020
RECEIVED

Form C-103
Revised July 18, 2013

WELL API NO. 30-025-46606
5. Indicate Type of Lease: STATE ☒ FEE ☐
6. State Oil & Gas Lease No. 320555
7. Lease Name or Unit Agreement Name: PYTHON 36 STATE COM
8. Well Number: #503H
9. OGRID Number: 7377
10. Pool name or Wildcat: 97964 WC-025 G-07 S243225C; LWR BONE SPRIN

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: Oil Well ☒ Gas Well ☐ Other
2. Name of Operator: EOG RESOURCES
3. Address of Operator: P O BOX 2267, MIDLAND TX 79702
4. Well Location
Unit Letter N : 439 feet from the SOUTH line and 1688 feet from the WEST line
Section 36 Township 24S Range 32E NMPM County LEA CO NM
11. Elevation *(Show whether DR, RKB, RT, GR, etc.)* 3559 GL

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:
PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☒
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐
DOWNHOLE COMMINGLE ☐
CLOSED-LOOP SYSTEM ☐
OTHER: CASING CHANGE ☒

SUBSEQUENT REPORT OF:
REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ P AND A ☐
CASING/CEMENT JOB ☐
OTHER: ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

EOG respectfully requests an amendment to our approved APD for this well to reflect the following changes:
Change casing and cement design to run a production string consisting of
6", 24.5#, ECP-110, VAM-TOP HT

Spud Date: Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE [signature] TITLE Sr. Regulatory Administrator DATE 01/31/2020

Type or print name Emily Follis E-mail address: emily_follis@eogresources.com PHONE: 432-848-9163

For State Use Only

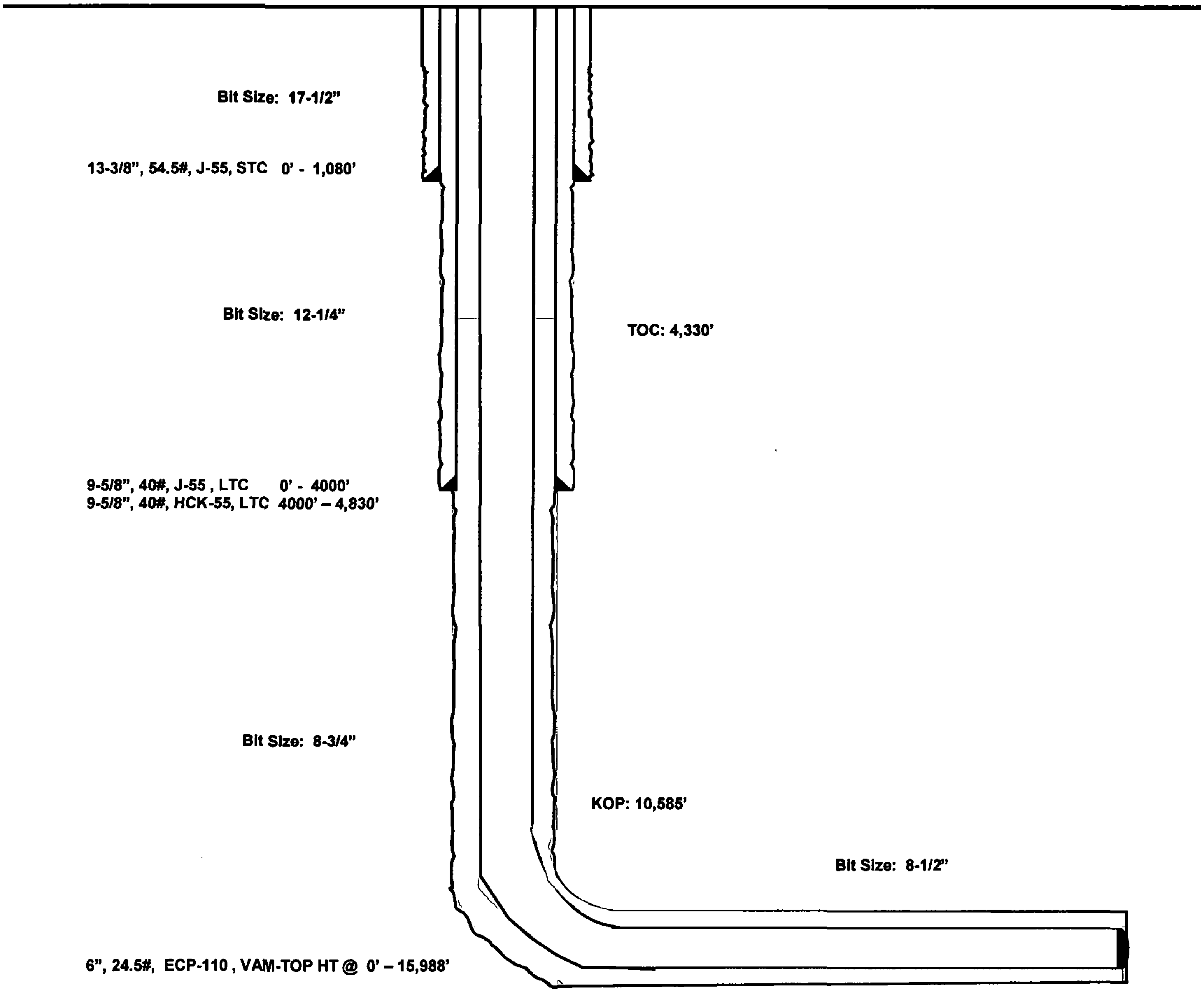
APPROVED BY: [signature] TITLE Petroleum Engineer DATE 02/03/2020
Conditions of Approval (if any):

Python 36 State Com #503H
Lea County, New Mexico

Revised Wellbore
1/31/2020
API: 30-025-46606

439' FSL
1688' FWL
Section 36
T-24-S, R-32-E

KB: 3,584'
GL: 3,559'



Lateral: 15,988' MD, 11,050' TVD
BH Location: 100' FNL & 1649' FWL
Section 36
T-24-S, R-32-E

EOG RESOURCES, INC.
PYTHON 36 STATE COM #503H

Permit Information:

Well Name: Python 36 State Com #503H

Location:
SHL: 439' FSL & 1688' FWL, Section 36, T-24-S, R-32-E, Lea Co., N.M.
BHL: 100' FNL & 1649' FWL, Section 36, T-24-S, R-32-E, Lea Co., N.M.

Casing Program:

Hole Size	Interval	Csg OD	Weight	Grade	Conn	DF_{min} Collapse	DF_{min} Burst	DF_{min} Tension
17.5"	0' – 1,080'	13.375"	54.5#	J-55	STC	1.125	1.25	1.60
12.25"	0' – 4,000'	9.625"	40#	J-55	LTC	1.125	1.25	1.60
12.25"	4000' – 5085'	9.625"	40#	HCK-55	LTC	1.125	1.25	1.60
8.75"	0'– 11,335'	6"	24.5#	ECP-110	VAM-TOP HT	1.125	1.25	1.60
8.5"	11,335'–15,988'	6"	24.5#	ECP-110	VAM-TOP HT	1.125	1.25	1.60

Cement Program:

Depth	No. Sacks	Wt. ppg	Yld Ft^3/ft	Slurry Description
1,080'	640	13.5	1.73	Lead: Class C + 4.0% Bentonite + 0.5% $CaCl_2$ + 0.25 lb/sk Cello-Flake (TOC @ Surface)
	160	14.8	1.34	Tail: Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate
4,830'	470	9.0	3.5	Lead: Class C + 10% NaCl + 6% Bentonite Gel + 3% MagOx (TOC @ Surface)
	320	14.4	1.20	Tail: Class C + 10% NaCl + 3% MagOx
15,988'	520	10.0	3.40	Lead: Class C + 3% CaCl2 + 3% Microbond (TOC @ 4,330')
	1,230	14.5	1.24	Tail: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond

eog resources

EOG Resources - Midland

Lea County, NM (NAD 83 NME)
Python 36 State Com
#503H

OH

Plan: Plan #0.1

Standard Planning Report

26 November, 2019

eog resources

Planning Report

Database:	EDM	**Local Co-ordinate Reference:**	Well #503H
Company:	EOG Resources - Midland	**TVD Reference:**	KB = 25 @ 3584.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB = 25 @ 3584.0usft
Site:	Python 36 State Com	**North Reference:**	Grid
Well:	#503H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

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	#503H						
Well Position	**+N/-S**	137.0 usft	**Northing:**	425,585.00 usft	**Latitude:**	32° 10' 5.032 N
	+E/-W	985.0 usft	**Easting:**	758,513.00 usft	**Longitude:**	103° 37' 53.273 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**		**Ground Level:**	3,559.0 usft

Wellbore OH

Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	IGRF2015	11/25/2019	6.71	59.97	47,646.89819117

Design Plan #0.1

Audit Notes:

Version: **Phase:** PLAN **Tie On Depth:** 0.0

Vertical Section:	**Depth From (TVD) (usft)**	**+N/-S (usft)**	**+E/-W (usft)**	**Direction (°)**
	0.0	0.0	0.0	359.24

Plan Survey Tool Program **Date** 11/25/2019

	Depth From (usft)	**Depth To (usft)**	**Survey (Wellbore)**	**Tool Name**	**Remarks**
1	0.0	15,987.5	Plan #0.1 (OH)	MWD OWSG MWD - Standard	

Plan Sections

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,384.3	3.69	185.87	1,384.2	-5.9	-0.6	2.00	2.00	0.00	185.87	
7,282.1	3.69	185.87	7,269.8	-383.1	-39.4	0.00	0.00	0.00	0.00	
7,466.5	0.00	0.00	7,454.0	-389.0	-40.0	2.00	-2.00	0.00	180.00	
10,585.0	0.00	0.00	10,572.5	-389.0	-40.0	0.00	0.00	0.00	0.00	KOP (Python 36 State
11,335.0	90.00	359.74	11,050.0	88.5	-42.1	12.00	12.00	-0.03	359.74	
15,987.5	90.00	359.74	11,050.0	4,741.0	-63.0	0.00	0.00	0.00	0.00	PBHL (Python 36 Stat

Database:	EDM	**Local Co-ordinate Reference:**	Well #503H
Company:	EOG Resources - Midland	**TVD Reference:**	KB = 25 @ 3584.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB = 25 @ 3584.0usft
Site:	Python 36 State Com	**North Reference:**	Grid
Well:	#503H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	2.00	185.87	1,300.0	-1.7	-0.2	-1.7	2.00	2.00	0.00
1,384.3	3.69	185.87	1,384.2	-5.9	-0.6	-5.9	2.00	2.00	0.00
1,400.0	3.69	185.87	1,399.8	-6.9	-0.7	-6.9	0.00	0.00	0.00
1,500.0	3.69	185.87	1,499.6	-13.3	-1.4	-13.3	0.00	0.00	0.00
1,600.0	3.69	185.87	1,599.4	-19.7	-2.0	-19.7	0.00	0.00	0.00
1,700.0	3.69	185.87	1,699.2	-26.1	-2.7	-26.0	0.00	0.00	0.00
1,800.0	3.69	185.87	1,799.0	-32.5	-3.3	-32.4	0.00	0.00	0.00
1,900.0	3.69	185.87	1,898.8	-38.9	-4.0	-38.8	0.00	0.00	0.00
2,000.0	3.69	185.87	1,998.6	-45.3	-4.7	-45.2	0.00	0.00	0.00
2,100.0	3.69	185.87	2,098.4	-51.7	-5.3	-51.6	0.00	0.00	0.00
2,200.0	3.69	185.87	2,198.2	-58.1	-6.0	-58.0	0.00	0.00	0.00
2,300.0	3.69	185.87	2,298.0	-64.5	-6.6	-64.4	0.00	0.00	0.00
2,400.0	3.69	185.87	2,397.8	-70.9	-7.3	-70.8	0.00	0.00	0.00
2,500.0	3.69	185.87	2,497.6	-77.3	-7.9	-77.1	0.00	0.00	0.00
2,600.0	3.69	185.87	2,597.4	-83.6	-8.6	-83.5	0.00	0.00	0.00
2,700.0	3.69	185.87	2,697.2	-90.0	-9.3	-89.9	0.00	0.00	0.00
2,800.0	3.69	185.87	2,796.9	-96.4	-9.9	-96.3	0.00	0.00	0.00
2,900.0	3.69	185.87	2,896.7	-102.8	-10.6	-102.7	0.00	0.00	0.00
3,000.0	3.69	185.87	2,996.5	-109.2	-11.2	-109.1	0.00	0.00	0.00
3,100.0	3.69	185.87	3,096.3	-115.6	-11.9	-115.5	0.00	0.00	0.00
3,200.0	3.69	185.87	3,196.1	-122.0	-12.5	-121.8	0.00	0.00	0.00
3,300.0	3.69	185.87	3,295.9	-128.4	-13.2	-128.2	0.00	0.00	0.00
3,400.0	3.69	185.87	3,395.7	-134.8	-13.9	-134.6	0.00	0.00	0.00
3,500.0	3.69	185.87	3,495.5	-141.2	-14.5	-141.0	0.00	0.00	0.00
3,600.0	3.69	185.87	3,595.3	-147.6	-15.2	-147.4	0.00	0.00	0.00
3,700.0	3.69	185.87	3,695.1	-154.0	-15.8	-153.8	0.00	0.00	0.00
3,800.0	3.69	185.87	3,794.9	-160.4	-16.5	-160.2	0.00	0.00	0.00
3,900.0	3.69	185.87	3,894.7	-166.8	-17.2	-166.5	0.00	0.00	0.00
4,000.0	3.69	185.87	3,994.5	-173.2	-17.8	-172.9	0.00	0.00	0.00
4,100.0	3.69	185.87	4,094.3	-179.6	-18.5	-179.3	0.00	0.00	0.00
4,200.0	3.69	185.87	4,194.0	-186.0	-19.1	-185.7	0.00	0.00	0.00
4,300.0	3.69	185.87	4,293.8	-192.4	-19.8	-192.1	0.00	0.00	0.00
4,400.0	3.69	185.87	4,393.6	-198.8	-20.4	-198.5	0.00	0.00	0.00
4,500.0	3.69	185.87	4,493.4	-205.2	-21.1	-204.9	0.00	0.00	0.00
4,600.0	3.69	185.87	4,593.2	-211.6	-21.8	-211.3	0.00	0.00	0.00
4,700.0	3.69	185.87	4,693.0	-218.0	-22.4	-217.6	0.00	0.00	0.00
4,800.0	3.69	185.87	4,792.8	-224.4	-23.1	-224.0	0.00	0.00	0.00
4,900.0	3.69	185.87	4,892.6	-230.7	-23.7	-230.4	0.00	0.00	0.00
5,000.0	3.69	185.87	4,992.4	-237.1	-24.4	-236.8	0.00	0.00	0.00
5,100.0	3.69	185.87	5,092.2	-243.5	-25.0	-243.2	0.00	0.00	0.00
5,200.0	3.69	185.87	5,192.0	-249.9	-25.7	-249.6	0.00	0.00	0.00

Database:	EDM	**Local Co-ordinate Reference:**	Well #503H
Company:	EOG Resources - Midland	**TVD Reference:**	KB = 25 @ 3584.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB = 25 @ 3584.0usft
Site:	Python 36 State Com	**North Reference:**	Grid
Well:	#503H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,300.0	3.69	185.87	5,291.8	-256.3	-26.4	-256.0	0.00	0.00	0.00
5,400.0	3.69	185.87	5,391.6	-262.7	-27.0	-262.3	0.00	0.00	0.00
5,500.0	3.69	185.87	5,491.4	-269.1	-27.7	-268.7	0.00	0.00	0.00
5,600.0	3.69	185.87	5,591.2	-275.5	-28.3	-275.1	0.00	0.00	0.00
5,700.0	3.69	185.87	5,690.9	-281.9	-29.0	-281.5	0.00	0.00	0.00
5,800.0	3.69	185.87	5,790.7	-288.3	-29.6	-287.9	0.00	0.00	0.00
5,900.0	3.69	185.87	5,890.5	-294.7	-30.3	-294.3	0.00	0.00	0.00
6,000.0	3.69	185.87	5,990.3	-301.1	-31.0	-300.7	0.00	0.00	0.00
6,100.0	3.69	185.87	6,090.1	-307.5	-31.6	-307.1	0.00	0.00	0.00
6,200.0	3.69	185.87	6,189.9	-313.9	-32.3	-313.4	0.00	0.00	0.00
6,300.0	3.69	185.87	6,289.7	-320.3	-32.9	-319.8	0.00	0.00	0.00
6,400.0	3.69	185.87	6,389.5	-326.7	-33.6	-326.2	0.00	0.00	0.00
6,500.0	3.69	185.87	6,489.3	-333.1	-34.2	-332.6	0.00	0.00	0.00
6,600.0	3.69	185.87	6,589.1	-339.5	-34.9	-339.0	0.00	0.00	0.00
6,700.0	3.69	185.87	6,688.9	-345.9	-35.6	-345.4	0.00	0.00	0.00
6,800.0	3.69	185.87	6,788.7	-352.3	-36.2	-351.8	0.00	0.00	0.00
6,900.0	3.69	185.87	6,888.5	-358.7	-36.9	-358.1	0.00	0.00	0.00
7,000.0	3.69	185.87	6,988.3	-365.1	-37.5	-364.5	0.00	0.00	0.00
7,100.0	3.69	185.87	7,088.0	-371.5	-38.2	-370.9	0.00	0.00	0.00
7,200.0	3.69	185.87	7,187.8	-377.9	-38.9	-377.3	0.00	0.00	0.00
7,282.1	3.69	185.87	7,269.8	-383.1	-39.4	-382.5	0.00	0.00	0.00
7,300.0	3.33	185.87	7,287.6	-384.2	-39.5	-383.6	2.00	-2.00	0.00
7,400.0	1.33	185.87	7,387.5	-388.2	-39.9	-387.7	2.00	-2.00	0.00
7,466.5	0.00	0.00	7,454.0	-389.0	-40.0	-388.4	2.00	-2.00	0.00
7,500.0	0.00	0.00	7,487.5	-389.0	-40.0	-388.4	0.00	0.00	0.00
7,600.0	0.00	0.00	7,587.5	-389.0	-40.0	-388.4	0.00	0.00	0.00
7,700.0	0.00	0.00	7,687.5	-389.0	-40.0	-388.4	0.00	0.00	0.00
7,800.0	0.00	0.00	7,787.5	-389.0	-40.0	-388.4	0.00	0.00	0.00
7,900.0	0.00	0.00	7,887.5	-389.0	-40.0	-388.4	0.00	0.00	0.00
8,000.0	0.00	0.00	7,987.5	-389.0	-40.0	-388.4	0.00	0.00	0.00
8,100.0	0.00	0.00	8,087.5	-389.0	-40.0	-388.4	0.00	0.00	0.00
8,200.0	0.00	0.00	8,187.5	-389.0	-40.0	-388.4	0.00	0.00	0.00
8,300.0	0.00	0.00	8,287.5	-389.0	-40.0	-388.4	0.00	0.00	0.00
8,400.0	0.00	0.00	8,387.5	-389.0	-40.0	-388.4	0.00	0.00	0.00
8,500.0	0.00	0.00	8,487.5	-389.0	-40.0	-388.4	0.00	0.00	0.00
8,600.0	0.00	0.00	8,587.5	-389.0	-40.0	-388.4	0.00	0.00	0.00
8,700.0	0.00	0.00	8,687.5	-389.0	-40.0	-388.4	0.00	0.00	0.00
8,800.0	0.00	0.00	8,787.5	-389.0	-40.0	-388.4	0.00	0.00	0.00
8,900.0	0.00	0.00	8,887.5	-389.0	-40.0	-388.4	0.00	0.00	0.00
9,000.0	0.00	0.00	8,987.5	-389.0	-40.0	-388.4	0.00	0.00	0.00
9,100.0	0.00	0.00	9,087.5	-389.0	-40.0	-388.4	0.00	0.00	0.00
9,200.0	0.00	0.00	9,187.5	-389.0	-40.0	-388.4	0.00	0.00	0.00
9,300.0	0.00	0.00	9,287.5	-389.0	-40.0	-388.4	0.00	0.00	0.00
9,400.0	0.00	0.00	9,387.5	-389.0	-40.0	-388.4	0.00	0.00	0.00
9,500.0	0.00	0.00	9,487.5	-389.0	-40.0	-388.4	0.00	0.00	0.00
9,600.0	0.00	0.00	9,587.5	-389.0	-40.0	-388.4	0.00	0.00	0.00
9,700.0	0.00	0.00	9,687.5	-389.0	-40.0	-388.4	0.00	0.00	0.00
9,800.0	0.00	0.00	9,787.5	-389.0	-40.0	-388.4	0.00	0.00	0.00
9,900.0	0.00	0.00	9,887.5	-389.0	-40.0	-388.4	0.00	0.00	0.00
10,000.0	0.00	0.00	9,987.5	-389.0	-40.0	-388.4	0.00	0.00	0.00
10,100.0	0.00	0.00	10,087.5	-389.0	-40.0	-388.4	0.00	0.00	0.00
10,200.0	0.00	0.00	10,187.5	-389.0	-40.0	-388.4	0.00	0.00	0.00
10,300.0	0.00	0.00	10,287.5	-389.0	-40.0	-388.4	0.00	0.00	0.00
10,400.0	0.00	0.00	10,387.5	-389.0	-40.0	-388.4	0.00	0.00	0.00

Database:	EDM	**Local Co-ordinate Reference:**	Well #503H
Company:	EOG Resources - Midland	**TVD Reference:**	KB = 25 @ 3584.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB = 25 @ 3584.0usft
Site:	Python 36 State Com	**North Reference:**	Grid
Well:	#503H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,500.0	0.00	0.00	10,487.5	-389.0	-40.0	-388.4	0.00	0.00	0.00
10,585.0	0.00	0.00	10,572.5	-389.0	-40.0	-388.4	0.00	0.00	0.00
10,600.0	1.81	359.74	10,587.5	-388.8	-40.0	-388.2	12.00	12.00	0.00
10,625.0	4.81	359.74	10,612.5	-387.3	-40.0	-386.8	12.00	12.00	0.00
10,650.0	7.81	359.74	10,637.3	-384.6	-40.0	-384.0	12.00	12.00	0.00
10,675.0	10.81	359.74	10,662.0	-380.5	-40.0	-380.0	12.00	12.00	0.00
10,700.0	13.81	359.74	10,686.4	-375.2	-40.1	-374.6	12.00	12.00	0.00
10,725.0	16.81	359.74	10,710.5	-368.6	-40.1	-368.0	12.00	12.00	0.00
10,750.0	19.81	359.74	10,734.3	-360.8	-40.1	-360.2	12.00	12.00	0.00
10,775.0	22.81	359.74	10,757.6	-351.7	-40.2	-351.1	12.00	12.00	0.00
10,800.0	25.81	359.74	10,780.3	-341.4	-40.2	-340.8	12.00	12.00	0.00
10,825.0	28.81	359.74	10,802.6	-329.9	-40.3	-329.4	12.00	12.00	0.00
10,850.0	31.81	359.74	10,824.1	-317.3	-40.3	-316.7	12.00	12.00	0.00
10,875.0	34.81	359.74	10,845.0	-303.6	-40.4	-303.0	12.00	12.00	0.00
10,900.0	37.81	359.74	10,865.2	-288.8	-40.4	-288.2	12.00	12.00	0.00
10,925.0	40.81	359.74	10,884.5	-272.9	-40.5	-272.4	12.00	12.00	0.00
10,950.0	43.81	359.74	10,903.0	-256.1	-40.6	-255.6	12.00	12.00	0.00
10,975.0	46.81	359.74	10,920.6	-238.4	-40.7	-237.8	12.00	12.00	0.00
11,000.0	49.81	359.74	10,937.2	-219.7	-40.8	-219.1	12.00	12.00	0.00
11,025.0	52.81	359.74	10,952.8	-200.2	-40.8	-199.6	12.00	12.00	0.00
11,050.0	55.81	359.74	10,967.4	-179.9	-40.9	-179.3	12.00	12.00	0.00
11,075.0	58.81	359.74	10,980.9	-158.8	-41.0	-158.3	12.00	12.00	0.00
11,100.0	61.81	359.74	10,993.3	-137.1	-41.1	-136.6	12.00	12.00	0.00
11,125.0	64.81	359.74	11,004.5	-114.8	-41.2	-114.2	12.00	12.00	0.00
11,150.0	67.81	359.74	11,014.6	-91.9	-41.3	-91.3	12.00	12.00	0.00
11,175.0	70.81	359.74	11,023.4	-68.5	-41.4	-68.0	12.00	12.00	0.00
11,200.0	73.81	359.74	11,031.0	-44.7	-41.5	-44.1	12.00	12.00	0.00
11,225.0	76.81	359.74	11,037.4	-20.5	-41.7	-20.0	12.00	12.00	0.00
11,250.0	79.81	359.74	11,042.4	4.0	-41.8	4.5	12.00	12.00	0.00
11,275.0	82.81	359.74	11,046.2	28.7	-41.9	29.2	12.00	12.00	0.00
11,300.0	85.81	359.74	11,048.7	53.5	-42.0	54.1	12.00	12.00	0.00
11,325.0	88.81	359.74	11,049.9	78.5	-42.1	79.1	12.00	12.00	0.00
11,335.0	90.00	359.74	11,050.0	88.5	-42.1	89.0	12.00	12.00	0.00
11,400.0	90.00	359.74	11,050.0	153.5	-42.4	154.1	0.00	0.00	0.00
11,500.0	90.00	359.74	11,050.0	253.5	-42.9	254.0	0.00	0.00	0.00
11,600.0	90.00	359.74	11,050.0	353.5	-43.3	354.0	0.00	0.00	0.00
11,700.0	90.00	359.74	11,050.0	453.5	-43.8	454.0	0.00	0.00	0.00
11,800.0	90.00	359.74	11,050.0	553.5	-44.2	554.0	0.00	0.00	0.00
11,900.0	90.00	359.74	11,050.0	653.5	-44.7	654.0	0.00	0.00	0.00
12,000.0	90.00	359.74	11,050.0	753.5	-45.1	754.0	0.00	0.00	0.00
12,100.0	90.00	359.74	11,050.0	853.5	-45.6	854.0	0.00	0.00	0.00
12,200.0	90.00	359.74	11,050.0	953.5	-46.0	954.0	0.00	0.00	0.00
12,300.0	90.00	359.74	11,050.0	1,053.5	-46.5	1,054.0	0.00	0.00	0.00
12,400.0	90.00	359.74	11,050.0	1,153.5	-46.9	1,154.0	0.00	0.00	0.00
12,500.0	90.00	359.74	11,050.0	1,253.5	-47.4	1,254.0	0.00	0.00	0.00
12,600.0	90.00	359.74	11,050.0	1,353.5	-47.8	1,354.0	0.00	0.00	0.00
12,700.0	90.00	359.74	11,050.0	1,453.5	-48.3	1,454.0	0.00	0.00	0.00
12,800.0	90.00	359.74	11,050.0	1,553.5	-48.7	1,554.0	0.00	0.00	0.00
12,900.0	90.00	359.74	11,050.0	1,653.5	-49.2	1,654.0	0.00	0.00	0.00
13,000.0	90.00	359.74	11,050.0	1,753.5	-49.6	1,754.0	0.00	0.00	0.00
13,100.0	90.00	359.74	11,050.0	1,853.5	-50.1	1,854.0	0.00	0.00	0.00
13,200.0	90.00	359.74	11,050.0	1,953.5	-50.5	1,954.0	0.00	0.00	0.00
13,300.0	90.00	359.74	11,050.0	2,053.5	-51.0	2,054.0	0.00	0.00	0.00
13,400.0	90.00	359.74	11,050.0	2,153.5	-51.4	2,154.0	0.00	0.00	0.00

Database:	EDM	**Local Co-ordinate Reference:**	Well #503H
Company:	EOG Resources - Midland	**TVD Reference:**	KB = 25 @ 3584.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB = 25 @ 3584.0usft
Site:	Python 36 State Com	**North Reference:**	Grid
Well:	#503H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
13,500.0	90.00	359.74	11,050.0	2,253.5	-51.8	2,254.0	0.00	0.00	0.00
13,600.0	90.00	359.74	11,050.0	2,353.5	-52.3	2,354.0	0.00	0.00	0.00
13,700.0	90.00	359.74	11,050.0	2,453.5	-52.7	2,454.0	0.00	0.00	0.00
13,800.0	90.00	359.74	11,050.0	2,553.5	-53.2	2,554.0	0.00	0.00	0.00
13,900.0	90.00	359.74	11,050.0	2,653.5	-53.6	2,654.0	0.00	0.00	0.00
14,000.0	90.00	359.74	11,050.0	2,753.5	-54.1	2,754.0	0.00	0.00	0.00
14,100.0	90.00	359.74	11,050.0	2,853.5	-54.5	2,853.9	0.00	0.00	0.00
14,200.0	90.00	359.74	11,050.0	2,953.5	-55.0	2,953.9	0.00	0.00	0.00
14,300.0	90.00	359.74	11,050.0	3,053.5	-55.4	3,053.9	0.00	0.00	0.00
14,400.0	90.00	359.74	11,050.0	3,153.5	-55.9	3,153.9	0.00	0.00	0.00
14,500.0	90.00	359.74	11,050.0	3,253.5	-56.3	3,253.9	0.00	0.00	0.00
14,600.0	90.00	359.74	11,050.0	3,353.5	-56.8	3,353.9	0.00	0.00	0.00
14,700.0	90.00	359.74	11,050.0	3,453.5	-57.2	3,453.9	0.00	0.00	0.00
14,800.0	90.00	359.74	11,050.0	3,553.5	-57.7	3,553.9	0.00	0.00	0.00
14,900.0	90.00	359.74	11,050.0	3,653.5	-58.1	3,653.9	0.00	0.00	0.00
15,000.0	90.00	359.74	11,050.0	3,753.5	-58.6	3,753.9	0.00	0.00	0.00
15,100.0	90.00	359.74	11,050.0	3,853.5	-59.0	3,853.9	0.00	0.00	0.00
15,200.0	90.00	359.74	11,050.0	3,953.5	-59.5	3,953.9	0.00	0.00	0.00
15,300.0	90.00	359.74	11,050.0	4,053.5	-59.9	4,053.9	0.00	0.00	0.00
15,400.0	90.00	359.74	11,050.0	4,153.5	-60.4	4,153.9	0.00	0.00	0.00
15,500.0	90.00	359.74	11,050.0	4,253.5	-60.8	4,253.9	0.00	0.00	0.00
15,600.0	90.00	359.74	11,050.0	4,353.5	-61.3	4,353.9	0.00	0.00	0.00
15,700.0	90.00	359.74	11,050.0	4,453.5	-61.7	4,453.9	0.00	0.00	0.00
15,800.0	90.00	359.74	11,050.0	4,553.5	-62.2	4,553.9	0.00	0.00	0.00
15,900.0	90.00	359.74	11,050.0	4,653.5	-62.6	4,653.9	0.00	0.00	0.00
15,987.5	90.00	359.74	11,050.0	4,741.0	-63.0	4,741.4	0.00	0.00	0.00

Design Targets

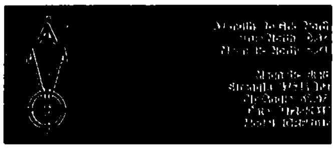
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
KOP (Python 36 State #: - plan hits target center - Point	0.00	0.00	10,572.5	-389.0	-40.0	425,196.00	758,473.00	32° 10' 1.185 N	103° 37' 53.767 W
FTP (Python 36 State #! - plan misses target center by 0.2usft at 10805.4usft MD (10785.2 TVD, -339.0 N, -40.2 E) - Point	0.00	0.00	10,785.2	-339.0	-40.0	425,246.00	758,473.00	32° 10' 1.680 N	103° 37' 53.764 W
PBHL (Python 36 State # - plan hits target center - Point	0.00	0.00	11,050.0	4,741.0	-63.0	430,326.00	758,450.00	32° 10' 51.950 N	103° 37' 53.646 W

eog resources

Lea County, NM (NAD 83 NME)

Python 36 State Com #503H

Plan #0.1



To convert a Magnetic Direction to a Grid Direction, Add 6.34°
To convert a Magnetic Direction to a True Direction, Add 6.71° East
To convert a True Direction to a Grid Direction, Subtract 0.37°

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: #503H

3559.0
KB = 25 @ 3584.0usft

Northing	Easting	Latitude	Longitude
425585.00	758513.00	32° 10' 5.032 N	103° 37' 53.273 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
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	1384.3	3.69	185.87	1384.2	-5.9	-0.6	2.00	185.87	-5.9	
4	7282.1	3.69	185.87	7269.8	-383.1	-39.4	0.00	0.00	-382.5	
5	7466.5	0.00	0.00	7454.0	-389.0	-40.0	2.00	180.00	-388.4	
6	10585.0	0.00	0.00	10572.5	-389.0	-40.0	0.00	0.00	-388.4	KOP (Python 36 State #503H)
7	11335.0	90.00	359.74	11050.0	88.5	-42.1	12.00	359.74	89.0	
8	15987.5	90.00	359.74	11050.0	4741.0	-63.0	0.00	0.00	4741.4	PBHL (Python 36 State #503H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
KOP (Python 36 State #503H)	10572.5	-389.0	-40.0	425196.00	758473.00
PBHL (Python 36 State #503H)	11050.0	4741.0	-63.0	430326.00	758450.00
FTP (Python 36 State #503H)	10785.2	-339.0	-40.0	425246.00	758473.00