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

Form C-103
Revised July 18, 2013

WELL API NO. 30-025-46367

5. Indicate Type of Lease STATE [x] FEE [ ]

6. State Oil & Gas Lease No. 319585

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.)

7. Lease Name or Unit Agreement Name: DATE 14 STATE COM

1. Type of Well: Oil Well [x] Gas Well [ ] Other

8. Well Number: 503H

2. Name of Operator: EOG RESOURCES

9. OGRID Number: 7377

3. Address of Operator: P O BOX 2267, MIDLAND TX 79702

10. Pool name or Wildcat: 5535 BERRY; BONE SPRING, NORTH

4. Well Location
Unit Letter O : 235 feet from the SOUTH line and 1404 feet from the EAST line
Section 14 Township 21S Range 33E NMPM County LEA

11. Elevation *(Show whether DR, RKB, RT, GR, etc.)* 3786 GL

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

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
PERFORM REMEDIAL WORK	[ ]	PLUG AND ABANDON	[ ]	REMEDIAL WORK	[ ]	ALTERING CASING	[ ]
TEMPORARILY ABANDON	[ ]	CHANGE PLANS	[XC]	COMMENCE DRILLING OPNS.	[ ]	P AND A	[ ]
PULL OR ALTER CASING	[ ]	MULTIPLE COMPL	[ ]	CASING/CEMENT JOB	[x]		
DOWNHOLE COMMINGLE	[ ]						
CLOSED-LOOP SYSTEM	[ ]						
OTHER:		APD CHANGES	[ ]	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:
Well number from 503H to 303H
Target formation from 2nd Bone Spring Sand (11,059') to Leonard Shale (10,069')
BHL change to T-21-S R-33-E Sec. 11 100' FNL 330' FEL
Decrease dedicated spacing unit acreage from 640 acres to 320 acres

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 TITLE Sr. Regulatory Administrator DATE 09/30/19

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

For State Use Only

APPROVED BY: TITLE DATE 10/11/2019

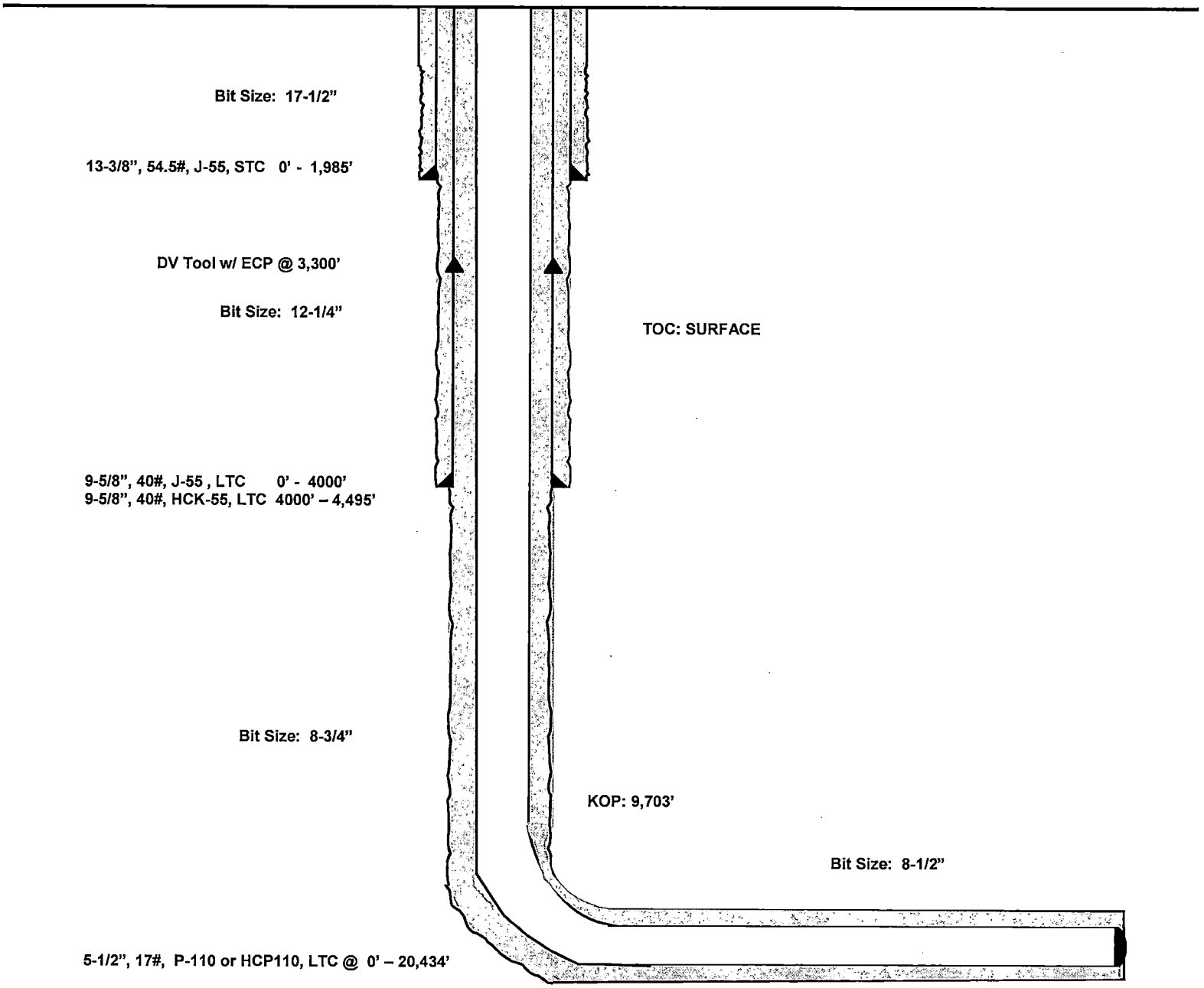
Conditions of Approval (if any):

Date 14 State Com #303H
Lea County, New Mexico

Proposed Wellbore
Revised 9/30/2019
API: 30-025-46367

235' FSL
1,404' FEL
Section 14
T-21-S, R-33-E

KB: 3,816'
GL: 3,791'



Lateral: 20,434' MD, 10,069' TVD
BH Location: 100' FNL & 330' FEL
Section 11
T-21-S, R-33-E

EOG RESOURCES, INC.
DATE 14 STATE COM #303H

Revised Permit Information 9/30/2019:

Well Name: Date 14 State Com #303H

Location:
SHL: 235' FSL & 1,404' FEL, Section 14, T-21-S, R-33-E, Lea Co., N.M.
BHL: 100' FNL & 330' FEL, Section 11, T-21-S, R-33-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' – 1,985'	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' – 4,495'	9.625"	40#	HCK-55	LTC	1.125	1.25	1.60
8.75"	0'– 10,607'	5.5"	17#	HCP-110	LTC	1.125	1.25	1.60
8.5"	10,607'– 20,434'	5.5"	17#	HCP-110	LTC	1.125	1.25	1.60

Cement Program:

Depth	No. Sacks	Wt. ppg	Yld Ft^3/ft	Slurry Description
1,985'	1,310	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
4,495' DV Tool w/ ECP @ 3,300'	500	12.7	2.22	Stage 1 Lead: Class 'C' + 1.50% R-3 + 0.25 lb/sk Cello-Flake + 2.0% Sodium Metasilicate + 10% Salt + 0.005 lb/sk Static Free (TOC @ 3,300')
	200	14.8	1.32	Stage 1 Tail: Class 'C' + 0.25 lb/sk Cello Flake + 0.005 lb/sk Static Free
	500	12.7	2.22	Stage 2 Lead: Class 'C' + 1.50% R-3 + 0.25 lb/sk Cello-Flake + 2.0% Sodium Metasilicate + 10% Salt + 0.005 lb/sk Static Free (TOC @ Surface)
	200	14.8	1.32	Stage 2 Tail: Class 'C' + 0.25 lb/sk Cello Flake + 0.005 lb/sk Static Free
20,434'	550	12.7	2.22	1st Stage (Lead): Class H + 5% Salt + 1% PreMag-M (TOC @ 7,100')
	2,360	14.4	1.31	1st Stage (Tail): Class H + 5% Salt
	1,400	12.7	3.21	2nd Stage (Bradenhead squeeze): Class C + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (TOC @ Surface)

Mud Program:

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0' – 1,985'	Fresh - Gel	8.6-8.8	28-34	N/c
1,985' – 4,495'	Brine	10.0-10.2	28-34	N/c
4,495' – 9,703'	Cut Brine	8.4-9.0	28-34	N/c
9,703' – 20,434' Lateral	Oil Base	9.0-9.5	40-42	8-10

eog resources

EOG Resources - Midland

Lea County, NM (NAD 83 NME)
Date 14 State Com
#303H
140733
OH

Plan: Plan #1

Standard Planning Report

30 September, 2019

Database:	EDM 5000.14	**Local Co-ordinate Reference:**	Well #303H
Company:	EOG Resources - Midland	**TVD Reference:**	KB = 25' @ 3816.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB = 25' @ 3816.0usft
Site:	Date 14 State Com	**North Reference:**	Grid
Well:	#303H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #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 Date 14 State Com

Site Position:		**Northing:**	536,428.00 usft	**Latitude:**	32° 28' 19.914 N
From:	Map	**Easting:**	786,265.00 usft	**Longitude:**	103° 32' 20.860 W
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.43 °

Well #303H

Well Position	**+N/-S**	2.0 usft	**Northing:**	536,430.00 usft	**Latitude:**	32° 28' 19.936 N
	+E/-W	-33.0 usft	**Easting:**	786,232.00 usft	**Longitude:**	103° 32' 21.245 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**		**Ground Level:**	3,791.0 usft

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	9/10/2019	6.71	60.26	47,855.68235693

Design Plan #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	5.54

Plan Survey Tool Program **Date** 9/30/2019

	Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	20,433.5	Plan #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	
2,050.0	0.00	0.00	2,050.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,762.0	14.24	99.61	2,754.7	-14.7	86.8	2.00	2.00	0.00	99.61	
6,478.8	14.24	99.61	6,357.3	-167.3	988.2	0.00	0.00	0.00	0.00	
7,190.8	0.00	0.01	7,062.0	-182.0	1,075.0	2.00	-2.00	0.00	180.00	Brushy Top(Date 14 S
9,702.8	0.00	0.01	9,574.0	-182.0	1,075.0	0.00	0.00	0.00	0.01	
10,607.4	90.45	359.54	10,146.9	395.5	1,070.3	10.00	10.00	-0.05	359.54	
20,433.5	90.45	359.54	10,069.0	10,221.0	991.0	0.00	0.00	0.00	0.00	PBHL(Date 14 State (

Database:	EDM 5000.14	**Local Co-ordinate Reference:**	Well #303H
Company:	EOG Resources - Midland	**TVD Reference:**	KB = 25' @ 3816.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB = 25' @ 3816.0usft
Site:	Date 14 State Com	**North Reference:**	Grid
Well:	#303H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #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	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,050.0	0.00	0.00	2,050.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	1.00	99.61	2,100.0	-0.1	0.4	0.0	2.00	2.00	0.00
2,200.0	3.00	99.61	2,199.9	-0.7	3.9	-0.3	2.00	2.00	0.00
2,300.0	5.00	99.61	2,299.7	-1.8	10.7	-0.8	2.00	2.00	0.00
2,400.0	7.00	99.61	2,399.1	-3.6	21.1	-1.5	2.00	2.00	0.00
2,500.0	9.00	99.61	2,498.2	-5.9	34.8	-2.5	2.00	2.00	0.00
2,600.0	11.00	99.61	2,596.6	-8.8	51.9	-3.7	2.00	2.00	0.00
2,700.0	13.00	99.61	2,694.4	-12.3	72.4	-5.2	2.00	2.00	0.00
2,762.0	14.24	99.61	2,754.7	-14.7	86.8	-6.2	2.00	2.00	0.00
2,800.0	14.24	99.61	2,791.5	-16.3	96.0	-6.9	0.00	0.00	0.00
2,900.0	14.24	99.61	2,888.5	-20.4	120.3	-8.7	0.00	0.00	0.00
3,000.0	14.24	99.61	2,985.4	-24.5	144.5	-10.4	0.00	0.00	0.00
3,100.0	14.24	99.61	3,082.3	-28.6	168.8	-12.2	0.00	0.00	0.00
3,200.0	14.24	99.61	3,179.2	-32.7	193.0	-13.9	0.00	0.00	0.00
3,300.0	14.24	99.61	3,276.2	-36.8	217.3	-15.6	0.00	0.00	0.00
3,400.0	14.24	99.61	3,373.1	-40.9	241.5	-17.4	0.00	0.00	0.00
3,500.0	14.24	99.61	3,470.0	-45.0	265.8	-19.1	0.00	0.00	0.00
3,600.0	14.24	99.61	3,566.9	-49.1	290.0	-20.9	0.00	0.00	0.00
3,700.0	14.24	99.61	3,663.9	-53.2	314.3	-22.6	0.00	0.00	0.00
3,800.0	14.24	99.61	3,760.8	-57.3	338.5	-24.4	0.00	0.00	0.00
3,900.0	14.24	99.61	3,857.7	-61.4	362.8	-26.1	0.00	0.00	0.00
4,000.0	14.24	99.61	3,954.7	-65.5	387.0	-27.9	0.00	0.00	0.00
4,100.0	14.24	99.61	4,051.6	-69.6	411.3	-29.6	0.00	0.00	0.00
4,200.0	14.24	99.61	4,148.5	-73.7	435.5	-31.4	0.00	0.00	0.00
4,300.0	14.24	99.61	4,245.4	-77.8	459.8	-33.1	0.00	0.00	0.00
4,400.0	14.24	99.61	4,342.4	-82.0	484.0	-34.9	0.00	0.00	0.00
4,500.0	14.24	99.61	4,439.3	-86.1	508.3	-36.6	0.00	0.00	0.00
4,600.0	14.24	99.61	4,536.2	-90.2	532.6	-38.3	0.00	0.00	0.00
4,700.0	14.24	99.61	4,633.1	-94.3	556.8	-40.1	0.00	0.00	0.00
4,800.0	14.24	99.61	4,730.1	-98.4	581.1	-41.8	0.00	0.00	0.00
4,900.0	14.24	99.61	4,827.0	-102.5	605.3	-43.6	0.00	0.00	0.00
5,000.0	14.24	99.61	4,923.9	-106.6	629.6	-45.3	0.00	0.00	0.00
5,100.0	14.24	99.61	5,020.9	-110.7	653.8	-47.1	0.00	0.00	0.00

Database:	EDM 5000.14	**Local Co-ordinate Reference:**	Well #303H
Company:	EOG Resources - Midland	**TVD Reference:**	KB = 25' @ 3816.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB = 25' @ 3816.0usft
Site:	Date 14 State Com	**North Reference:**	Grid
Well:	#303H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #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)
5,200.0	14.24	99.61	5,117.8	-114.8	678.1	-48.8	0.00	0.00	0.00
5,300.0	14.24	99.61	5,214.7	-118.9	702.3	-50.6	0.00	0.00	0.00
5,400.0	14.24	99.61	5,311.6	-123.0	726.6	-52.3	0.00	0.00	0.00
5,500.0	14.24	99.61	5,408.6	-127.1	750.8	-54.1	0.00	0.00	0.00
5,600.0	14.24	99.61	5,505.5	-131.2	775.1	-55.8	0.00	0.00	0.00
5,700.0	14.24	99.61	5,602.4	-135.3	799.3	-57.6	0.00	0.00	0.00
5,800.0	14.24	99.61	5,699.4	-139.4	823.6	-59.3	0.00	0.00	0.00
5,900.0	14.24	99.61	5,796.3	-143.5	847.8	-61.1	0.00	0.00	0.00
6,000.0	14.24	99.61	5,893.2	-147.6	872.1	-62.8	0.00	0.00	0.00
6,100.0	14.24	99.61	5,990.1	-151.8	896.3	-64.5	0.00	0.00	0.00
6,200.0	14.24	99.61	6,087.1	-155.9	920.6	-66.3	0.00	0.00	0.00
6,300.0	14.24	99.61	6,184.0	-160.0	944.8	-68.0	0.00	0.00	0.00
6,400.0	14.24	99.61	6,280.9	-164.1	969.1	-69.8	0.00	0.00	0.00
6,478.8	14.24	99.61	6,357.3	-167.3	988.2	-71.2	0.00	0.00	0.00
6,500.0	13.82	99.61	6,377.9	-168.2	993.3	-71.5	2.00	-2.00	0.00
6,600.0	11.82	99.61	6,475.4	-171.9	1,015.1	-73.1	2.00	-2.00	0.00
6,700.0	9.82	99.61	6,573.6	-175.0	1,033.6	-74.4	2.00	-2.00	0.00
6,800.0	7.82	99.61	6,672.4	-177.6	1,048.8	-75.5	2.00	-2.00	0.00
6,900.0	5.82	99.61	6,771.7	-179.5	1,060.5	-76.4	2.00	-2.00	0.00
7,000.0	3.82	99.61	6,871.3	-180.9	1,068.7	-77.0	2.00	-2.00	0.00
7,100.0	1.82	99.61	6,971.2	-181.8	1,073.6	-77.3	2.00	-2.00	0.00
7,190.8	0.00	0.01	7,062.0	-182.0	1,075.0	-77.4	2.00	-2.00	0.00
7,200.0	0.00	0.00	7,071.2	-182.0	1,075.0	-77.4	0.00	0.00	0.00
7,300.0	0.00	0.00	7,171.2	-182.0	1,075.0	-77.4	0.00	0.00	0.00
7,400.0	0.00	0.00	7,271.2	-182.0	1,075.0	-77.4	0.00	0.00	0.00
7,500.0	0.00	0.00	7,371.2	-182.0	1,075.0	-77.4	0.00	0.00	0.00
7,600.0	0.00	0.00	7,471.2	-182.0	1,075.0	-77.4	0.00	0.00	0.00
7,700.0	0.00	0.00	7,571.2	-182.0	1,075.0	-77.4	0.00	0.00	0.00
7,800.0	0.00	0.00	7,671.2	-182.0	1,075.0	-77.4	0.00	0.00	0.00
7,900.0	0.00	0.00	7,771.2	-182.0	1,075.0	-77.4	0.00	0.00	0.00
8,000.0	0.00	0.00	7,871.2	-182.0	1,075.0	-77.4	0.00	0.00	0.00
8,100.0	0.00	0.00	7,971.2	-182.0	1,075.0	-77.4	0.00	0.00	0.00
8,200.0	0.00	0.00	8,071.2	-182.0	1,075.0	-77.4	0.00	0.00	0.00
8,300.0	0.00	0.00	8,171.2	-182.0	1,075.0	-77.4	0.00	0.00	0.00
8,400.0	0.00	0.00	8,271.2	-182.0	1,075.0	-77.4	0.00	0.00	0.00
8,500.0	0.00	0.00	8,371.2	-182.0	1,075.0	-77.4	0.00	0.00	0.00
8,600.0	0.00	0.00	8,471.2	-182.0	1,075.0	-77.4	0.00	0.00	0.00
8,700.0	0.00	0.00	8,571.2	-182.0	1,075.0	-77.4	0.00	0.00	0.00
8,800.0	0.00	0.00	8,671.2	-182.0	1,075.0	-77.4	0.00	0.00	0.00
8,900.0	0.00	0.00	8,771.2	-182.0	1,075.0	-77.4	0.00	0.00	0.00
9,000.0	0.00	0.00	8,871.2	-182.0	1,075.0	-77.4	0.00	0.00	0.00
9,100.0	0.00	0.00	8,971.2	-182.0	1,075.0	-77.4	0.00	0.00	0.00
9,200.0	0.00	0.00	9,071.2	-182.0	1,075.0	-77.4	0.00	0.00	0.00
9,300.0	0.00	0.00	9,171.2	-182.0	1,075.0	-77.4	0.00	0.00	0.00
9,400.0	0.00	0.00	9,271.2	-182.0	1,075.0	-77.4	0.00	0.00	0.00
9,500.0	0.00	0.00	9,371.2	-182.0	1,075.0	-77.4	0.00	0.00	0.00
9,600.0	0.00	0.00	9,471.2	-182.0	1,075.0	-77.4	0.00	0.00	0.00
9,702.8	0.00	0.01	9,574.0	-182.0	1,075.0	-77.4	0.00	0.00	0.00
9,750.0	4.72	359.54	9,621.1	-180.1	1,075.0	-75.5	10.00	10.00	0.00
9,800.0	9.72	359.54	9,670.7	-173.8	1,074.9	-69.2	10.00	10.00	0.00
9,850.0	14.72	359.54	9,719.6	-163.2	1,074.8	-58.7	10.00	10.00	0.00
9,900.0	19.72	359.54	9,767.3	-148.4	1,074.7	-44.0	10.00	10.00	0.00
9,950.0	24.72	359.54	9,813.6	-129.5	1,074.6	-25.2	10.00	10.00	0.00
10,000.0	29.72	359.54	9,858.0	-106.6	1,074.4	-2.5	10.00	10.00	0.00

Database:	EDM 5000.14	**Local Co-ordinate Reference:**	Well #303H
Company:	EOG Resources - Midland	**TVD Reference:**	KB = 25' @ 3816.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB = 25' @ 3816.0usft
Site:	Date 14 State Com	**North Reference:**	Grid
Well:	#303H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #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)
10,050.0	34.72	359.54	9,900.3	-80.0	1,074.2	24.0	10.00	10.00	0.00
10,100.0	39.72	359.54	9,940.1	-49.8	1,073.9	54.1	10.00	10.00	0.00
10,150.0	44.72	359.54	9,977.1	-16.2	1,073.7	87.5	10.00	10.00	0.00
10,200.0	49.72	359.54	10,011.1	20.5	1,073.4	124.0	10.00	10.00	0.00
10,250.0	54.72	359.54	10,041.7	60.0	1,073.0	163.3	10.00	10.00	0.00
10,300.0	59.72	359.54	10,068.8	102.0	1,072.7	205.1	10.00	10.00	0.00
10,350.0	64.72	359.54	10,092.1	146.3	1,072.3	249.1	10.00	10.00	0.00
10,400.0	69.72	359.54	10,111.4	192.3	1,072.0	294.9	10.00	10.00	0.00
10,450.0	74.72	359.54	10,126.7	239.9	1,071.6	342.2	10.00	10.00	0.00
10,500.0	79.72	359.54	10,137.8	288.7	1,071.2	390.7	10.00	10.00	0.00
10,550.0	84.72	359.54	10,144.5	338.2	1,070.8	440.0	10.00	10.00	0.00
10,600.0	89.72	359.54	10,147.0	388.1	1,070.4	489.6	10.00	10.00	0.00
10,607.4	90.45	359.54	10,146.9	395.5	1,070.3	496.9	10.00	10.00	0.00
10,700.0	90.45	359.54	10,146.2	488.1	1,069.6	589.1	0.00	0.00	0.00
10,800.0	90.45	359.54	10,145.4	588.1	1,068.8	688.5	0.00	0.00	0.00
10,900.0	90.45	359.54	10,144.6	688.1	1,068.0	788.0	0.00	0.00	0.00
11,000.0	90.45	359.54	10,143.8	788.1	1,067.2	887.4	0.00	0.00	0.00
11,100.0	90.45	359.54	10,143.0	888.1	1,066.4	986.9	0.00	0.00	0.00
11,200.0	90.45	359.54	10,142.2	988.1	1,065.6	1,086.3	0.00	0.00	0.00
11,300.0	90.45	359.54	10,141.4	1,088.1	1,064.7	1,185.8	0.00	0.00	0.00
11,400.0	90.45	359.54	10,140.7	1,188.1	1,063.9	1,285.2	0.00	0.00	0.00
11,500.0	90.45	359.54	10,139.9	1,288.1	1,063.1	1,384.7	0.00	0.00	0.00
11,600.0	90.45	359.54	10,139.1	1,388.1	1,062.3	1,484.1	0.00	0.00	0.00
11,700.0	90.45	359.54	10,138.3	1,488.1	1,061.5	1,583.6	0.00	0.00	0.00
11,800.0	90.45	359.54	10,137.5	1,588.1	1,060.7	1,683.0	0.00	0.00	0.00
11,900.0	90.45	359.54	10,136.7	1,688.0	1,059.9	1,782.5	0.00	0.00	0.00
12,000.0	90.45	359.54	10,135.9	1,788.0	1,059.1	1,881.9	0.00	0.00	0.00
12,100.0	90.45	359.54	10,135.1	1,888.0	1,058.3	1,981.3	0.00	0.00	0.00
12,200.0	90.45	359.54	10,134.3	1,988.0	1,057.5	2,080.8	0.00	0.00	0.00
12,300.0	90.45	359.54	10,133.5	2,088.0	1,056.7	2,180.2	0.00	0.00	0.00
12,400.0	90.45	359.54	10,132.7	2,188.0	1,055.9	2,279.7	0.00	0.00	0.00
12,500.0	90.45	359.54	10,131.9	2,288.0	1,055.1	2,379.1	0.00	0.00	0.00
12,600.0	90.45	359.54	10,131.1	2,388.0	1,054.2	2,478.6	0.00	0.00	0.00
12,700.0	90.45	359.54	10,130.3	2,488.0	1,053.4	2,578.0	0.00	0.00	0.00
12,800.0	90.45	359.54	10,129.5	2,588.0	1,052.6	2,677.5	0.00	0.00	0.00
12,900.0	90.45	359.54	10,128.8	2,688.0	1,051.8	2,776.9	0.00	0.00	0.00
13,000.0	90.45	359.54	10,128.0	2,788.0	1,051.0	2,876.4	0.00	0.00	0.00
13,100.0	90.45	359.54	10,127.2	2,888.0	1,050.2	2,975.8	0.00	0.00	0.00
13,200.0	90.45	359.54	10,126.4	2,988.0	1,049.4	3,075.3	0.00	0.00	0.00
13,300.0	90.45	359.54	10,125.6	3,088.0	1,048.6	3,174.7	0.00	0.00	0.00
13,400.0	90.45	359.54	10,124.8	3,187.9	1,047.8	3,274.2	0.00	0.00	0.00
13,500.0	90.45	359.54	10,124.0	3,287.9	1,047.0	3,373.6	0.00	0.00	0.00
13,600.0	90.45	359.54	10,123.2	3,387.9	1,046.2	3,473.1	0.00	0.00	0.00
13,700.0	90.45	359.54	10,122.4	3,487.9	1,045.4	3,572.5	0.00	0.00	0.00
13,800.0	90.45	359.54	10,121.6	3,587.9	1,044.6	3,672.0	0.00	0.00	0.00
13,900.0	90.45	359.54	10,120.8	3,687.9	1,043.8	3,771.4	0.00	0.00	0.00
14,000.0	90.45	359.54	10,120.0	3,787.9	1,042.9	3,870.9	0.00	0.00	0.00
14,100.0	90.45	359.54	10,119.2	3,887.9	1,042.1	3,970.3	0.00	0.00	0.00
14,200.0	90.45	359.54	10,118.4	3,987.9	1,041.3	4,069.8	0.00	0.00	0.00
14,300.0	90.45	359.54	10,117.7	4,087.9	1,040.5	4,169.2	0.00	0.00	0.00
14,400.0	90.45	359.54	10,116.9	4,187.9	1,039.7	4,268.7	0.00	0.00	0.00
14,500.0	90.45	359.54	10,116.1	4,287.9	1,038.9	4,368.1	0.00	0.00	0.00
14,600.0	90.45	359.54	10,115.3	4,387.9	1,038.1	4,467.6	0.00	0.00	0.00
14,700.0	90.45	359.54	10,114.5	4,487.9	1,037.3	4,567.0	0.00	0.00	0.00

Database:	EDM 5000.14	**Local Co-ordinate Reference:**	Well #303H
Company:	EOG Resources - Midland	**TVD Reference:**	KB = 25' @ 3816.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB = 25' @ 3816.0usft
Site:	Date 14 State Com	**North Reference:**	Grid
Well:	#303H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #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)
14,800.0	90.45	359.54	10,113.7	4,587.9	1,036.5	4,666.5	0.00	0.00	0.00
14,900.0	90.45	359.54	10,112.9	4,687.9	1,035.7	4,765.9	0.00	0.00	0.00
15,000.0	90.45	359.54	10,112.1	4,787.8	1,034.9	4,865.4	0.00	0.00	0.00
15,100.0	90.45	359.54	10,111.3	4,887.8	1,034.1	4,964.8	0.00	0.00	0.00
15,200.0	90.45	359.54	10,110.5	4,987.8	1,033.3	5,064.3	0.00	0.00	0.00
15,300.0	90.45	359.54	10,109.7	5,087.8	1,032.4	5,163.7	0.00	0.00	0.00
15,400.0	90.45	359.54	10,108.9	5,187.8	1,031.6	5,263.2	0.00	0.00	0.00
15,500.0	90.45	359.54	10,108.1	5,287.8	1,030.8	5,362.6	0.00	0.00	0.00
15,600.0	90.45	359.54	10,107.3	5,387.8	1,030.0	5,462.1	0.00	0.00	0.00
15,700.0	90.45	359.54	10,106.5	5,487.8	1,029.2	5,561.5	0.00	0.00	0.00
15,800.0	90.45	359.54	10,105.8	5,587.8	1,028.4	5,661.0	0.00	0.00	0.00
15,900.0	90.45	359.54	10,105.0	5,687.8	1,027.6	5,760.4	0.00	0.00	0.00
16,000.0	90.45	359.54	10,104.2	5,787.8	1,026.8	5,859.9	0.00	0.00	0.00
16,100.0	90.45	359.54	10,103.4	5,887.8	1,026.0	5,959.3	0.00	0.00	0.00
16,200.0	90.45	359.54	10,102.6	5,987.8	1,025.2	6,058.8	0.00	0.00	0.00
16,300.0	90.45	359.54	10,101.8	6,087.8	1,024.4	6,158.2	0.00	0.00	0.00
16,400.0	90.45	359.54	10,101.0	6,187.8	1,023.6	6,257.7	0.00	0.00	0.00
16,500.0	90.45	359.54	10,100.2	6,287.8	1,022.8	6,357.1	0.00	0.00	0.00
16,600.0	90.45	359.54	10,099.4	6,387.7	1,022.0	6,456.6	0.00	0.00	0.00
16,700.0	90.45	359.54	10,098.6	6,487.7	1,021.1	6,556.0	0.00	0.00	0.00
16,800.0	90.45	359.54	10,097.8	6,587.7	1,020.3	6,655.5	0.00	0.00	0.00
16,900.0	90.45	359.54	10,097.0	6,687.7	1,019.5	6,754.9	0.00	0.00	0.00
17,000.0	90.45	359.54	10,096.2	6,787.7	1,018.7	6,854.3	0.00	0.00	0.00
17,100.0	90.45	359.54	10,095.4	6,887.7	1,017.9	6,953.8	0.00	0.00	0.00
17,200.0	90.45	359.54	10,094.6	6,987.7	1,017.1	7,053.2	0.00	0.00	0.00
17,300.0	90.45	359.54	10,093.9	7,087.7	1,016.3	7,152.7	0.00	0.00	0.00
17,400.0	90.45	359.54	10,093.1	7,187.7	1,015.5	7,252.1	0.00	0.00	0.00
17,500.0	90.45	359.54	10,092.3	7,287.7	1,014.7	7,351.6	0.00	0.00	0.00
17,600.0	90.45	359.54	10,091.5	7,387.7	1,013.9	7,451.0	0.00	0.00	0.00
17,700.0	90.45	359.54	10,090.7	7,487.7	1,013.1	7,550.5	0.00	0.00	0.00
17,800.0	90.45	359.54	10,089.9	7,587.7	1,012.3	7,649.9	0.00	0.00	0.00
17,900.0	90.45	359.54	10,089.1	7,687.7	1,011.5	7,749.4	0.00	0.00	0.00
18,000.0	90.45	359.54	10,088.3	7,787.7	1,010.6	7,848.8	0.00	0.00	0.00
18,100.0	90.45	359.54	10,087.5	7,887.6	1,009.8	7,948.3	0.00	0.00	0.00
18,200.0	90.45	359.54	10,086.7	7,987.6	1,009.0	8,047.7	0.00	0.00	0.00
18,300.0	90.45	359.54	10,085.9	8,087.6	1,008.2	8,147.2	0.00	0.00	0.00
18,400.0	90.45	359.54	10,085.1	8,187.6	1,007.4	8,246.6	0.00	0.00	0.00
18,500.0	90.45	359.54	10,084.3	8,287.6	1,006.6	8,346.1	0.00	0.00	0.00
18,600.0	90.45	359.54	10,083.5	8,387.6	1,005.8	8,445.5	0.00	0.00	0.00
18,700.0	90.45	359.54	10,082.7	8,487.6	1,005.0	8,545.0	0.00	0.00	0.00
18,800.0	90.45	359.54	10,082.0	8,587.6	1,004.2	8,644.4	0.00	0.00	0.00
18,900.0	90.45	359.54	10,081.2	8,687.6	1,003.4	8,743.9	0.00	0.00	0.00
19,000.0	90.45	359.54	10,080.4	8,787.6	1,002.6	8,843.3	0.00	0.00	0.00
19,100.0	90.45	359.54	10,079.6	8,887.6	1,001.8	8,942.8	0.00	0.00	0.00
19,200.0	90.45	359.54	10,078.8	8,987.6	1,001.0	9,042.2	0.00	0.00	0.00
19,300.0	90.45	359.54	10,078.0	9,087.6	1,000.2	9,141.7	0.00	0.00	0.00
19,400.0	90.45	359.54	10,077.2	9,187.6	999.3	9,241.1	0.00	0.00	0.00
19,500.0	90.45	359.54	10,076.4	9,287.6	998.5	9,340.6	0.00	0.00	0.00
19,600.0	90.45	359.54	10,075.6	9,387.6	997.7	9,440.0	0.00	0.00	0.00
19,700.0	90.45	359.54	10,074.8	9,487.5	996.9	9,539.5	0.00	0.00	0.00
19,800.0	90.45	359.54	10,074.0	9,587.5	996.1	9,638.9	0.00	0.00	0.00
19,900.0	90.45	359.54	10,073.2	9,687.5	995.3	9,738.4	0.00	0.00	0.00
20,000.0	90.45	359.54	10,072.4	9,787.5	994.5	9,837.8	0.00	0.00	0.00
20,100.0	90.45	359.54	10,071.6	9,887.5	993.7	9,937.3	0.00	0.00	0.00

Database:	EDM 5000.14	**Local Co-ordinate Reference:**	Well #303H
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Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB = 25' @ 3816.0usft
Site:	Date 14 State Com	**North Reference:**	Grid
Well:	#303H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #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)
20,200.0	90.45	359.54	10,070.9	9,987.5	992.9	10,036.7	0.00	0.00	0.00
20,300.0	90.45	359.54	10,070.1	10,087.5	992.1	10,136.2	0.00	0.00	0.00
20,400.0	90.45	359.54	10,069.3	10,187.5	991.3	10,235.6	0.00	0.00	0.00
20,433.5	90.45	359.54	10,069.0	10,221.0	991.0	10,268.9	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
Brushy Top(Date 14 Stat	0.00	0.01	7,062.0	-182.0	1,075.0	536,248.00	787,307.00	32° 28' 18.056 N	103° 32' 8.713 W
- plan hits target center									
- Polygon									
Point 1			7,062.0	30.0	-50.0	536,278.01	787,257.00		
Point 2			7,062.0	30.0	30.0	536,278.00	787,337.00		
Point 3			7,062.0	-50.0	30.0	536,198.00	787,336.99		
Point 4			7,062.0	-50.0	-50.0	536,198.01	787,256.99		
PBHL(Date 14 State Co	90.00	359.53	10,069.0	10,221.0	991.0	546,651.00	787,223.00	32° 30' 0.996 N	103° 32' 8.786 W
- plan hits target center									
- Rectangle (sides W60.0 H0.0 D10,343.8)									
FTP(Date 14 State Com	0.00	0.00	10,147.0	-132.0	1,075.0	536,298.00	787,307.00	32° 28' 18.550 N	103° 32' 8.709 W
- plan misses target center by 202.8usft at 10180.4usft MD (9998.1 TVD, 5.7 N, 1073.5 E)									
- Point									

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,846.0	1,846.0	Rustler			
1,949.0	1,949.0	Tamarisk Anhydrite			
2,281.3	2,281.0	Top of Salt			
4,401.7	4,344.0	Capitan			
5,477.7	5,387.0	Bell Canyon			
6,288.7	6,173.0	Cherry Canyon			
7,190.8	7,062.0	Brushy Canyon			
8,945.8	8,817.0	Bone Spring Lime			
9,154.8	9,026.0	Leonard A			
9,476.8	9,348.0	Leonard B			
10,130.4	9,963.0	First Bone Spring Sand			
10,426.4	10,120.0	FBSG_ TOW			

eog resources

Lea County, NM (NAD 83 NME)

Date 14 State Com #303H

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

Azimuths to Grid North
True North: -0.43°
Magnetic North: 6.29°

Magnetic Field
Strength: 47855.7nT
Dip Angle: 60.26°
Date: 9/10/2019
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 6.29°
To convert a Magnetic Direction to a True Direction, Add 6.71° East
To convert a True Direction to a Grid Direction, Subtract 0.43°

WELL DETAILS: #303H

3791.0
KB = 25' @ 3816.0usft

Northing	Easting	Latitude	Longitude
536430.00	786232.00	32° 28' 19.936 N	103° 32' 21.245 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0
2	2050.0	0.00	0.00	2050.0	0.0	0.0	0.00	0.00	0.0
3	2762.0	14.24	99.61	2754.7	-14.7	86.8	2.00	99.61	-6.2
4	6478.8	14.24	99.61	6357.3	-167.3	988.2	0.00	0.00	-71.2
5	7190.8	0.00	0.00	7062.0	-182.0	1075.0	2.00	180.00	-77.4
6	9702.8	0.00	0.00	9574.0	-182.0	1075.0	0.00	0.00	-77.4
7	10607.4	90.45	359.54	10146.9	395.5	1070.3	10.00	359.54	496.9
8	20433.5	90.45	359.54	10069.0	10221.0	991.0	0.00	0.00	10268.9

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
Brushy Top(Date 14 State Com #503H)	7062.0	-182.0	1075.0	536248.00	787307.00
PBHL(Date 14 State Com #503H)	10069.0	10221.0	991.0	545651.00	787223.00
FTP(Date 14 State Com #503H)	10147.0	-132.0	1075.0	536298.00	787307.00