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. 30-025-49282

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

6. State Oil & Gas Lease No.

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: DRAGON 36 STATE

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

8. Well Number: 509H

2. Name of Operator: EOG Resources

9. OGRID Number: 7377

3. Address of Operator: 5509 CHAMPION DRIVE, MIDLAND, TEXAS 79703

10. Pool name or Wildcat: RED HILLS; LOWER BONE SPRING

4. Well Location
Unit Letter M : 664 feet from the SOUTH line and 758 feet from the WEST line
Section 36 Township 24S Range 33E NMPM County LEA CO NM

11. Elevation *(Show whether DR, RKB, RT, GR, etc.)*: 3491 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	[X]	COMMENCE DRILLING OPNS.	[ ]	P AND A	[ ]
PULL OR ALTER CASING	[ ]	MULTIPLE COMPL	[ ]	CASING/CEMENT JOB	[ ]		
DOWNHOLE COMMINGLE	[ ]						
CLOSED-LOOP SYSTEM	[ ]						
OTHER:	[ ]			OTHER: APD CHANGE			[X]

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 and amendment to our approved APD for this well to reflect the following changes:

Change the BHL, 100' FNL & 1574' FWL, Sec 36. T-24-S, R-33-E, Lea Co., NM

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 Star L Harrell TITLE Sr. Regulatory Specialist DATE 8-17-2021

Type or print name Star L Harrell E-mail address: sharrell@eogresources.com PHONE: 432-848-9161

For State Use Only

APPROVED BY: TITLE DATE

Conditions of Approval (if any):

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
30-025-49282	51020	Red Hills; Lower Bone Spring

[4]Property Code	[5]Property Name	[6]Well Number
39643	DRAGON 36 STATE	509H

[7]OGRID No.	[8]Operator Name	[9]Elevation
7377	EOG RESOURCES, INC.	3491'

[10]Surface Location

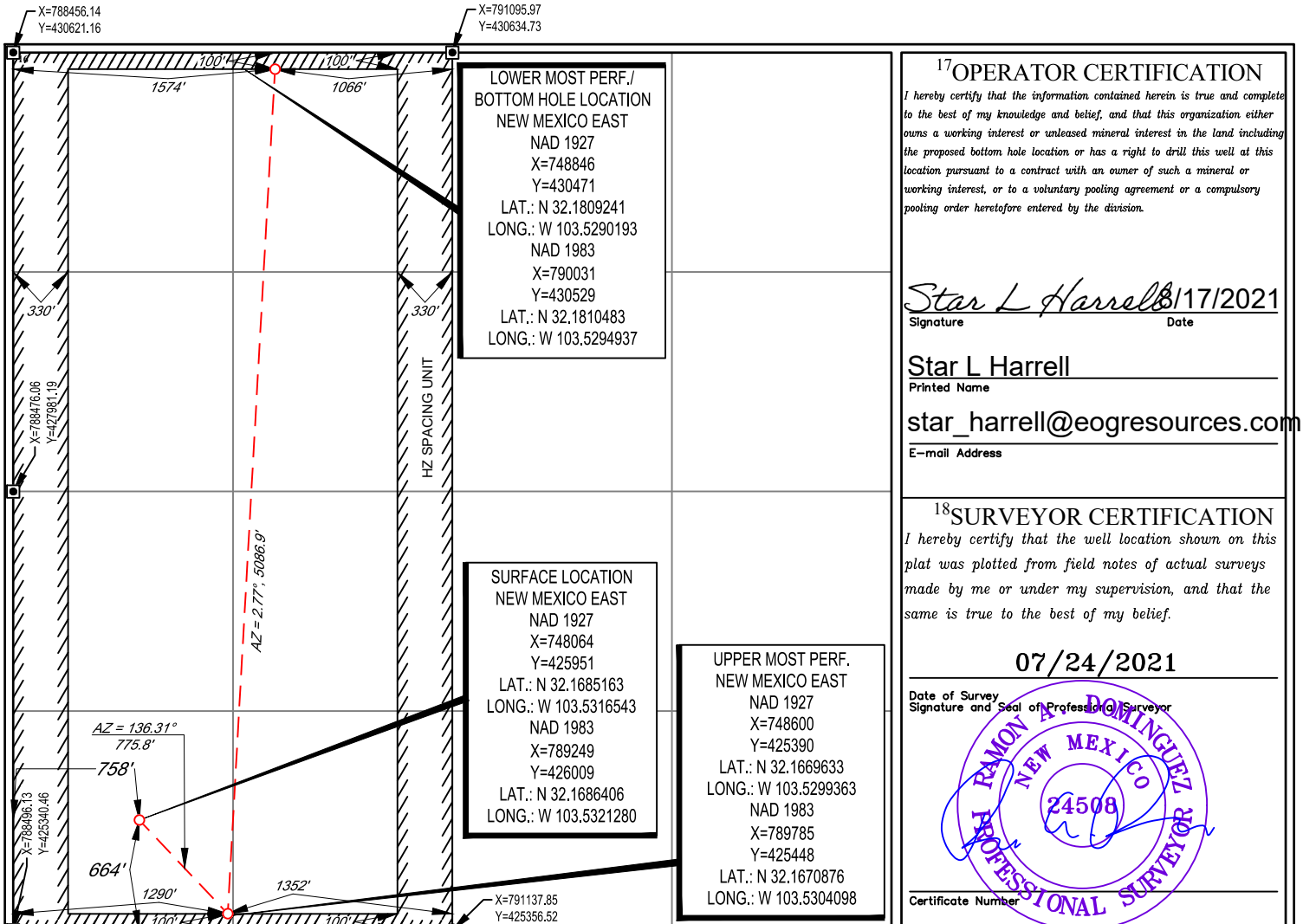
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	36	24-S	33-E	-	664'	SOUTH	758'	WEST	LEA

[11]Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	36	24-S	33-E	-	100'	NORTH	1574'	WEST	LEA

[12]Dedicated Acres	[13]Joint or Infill	[14]Consolidation Code	[15]Order No.
320.00			

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.

Star L Harrell 8/17/2021
Signature Date

Star L Harrell
Printed Name

star_harrell@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.

07/24/2021
Date of Survey
Signature and Seal of Professional Surveyor

Certificate Number

S:\SURVEY\EOG_MIDLAND\DRAGON_36_STATE\FINAL_PRODUCTS\LO_DRAGON_36_STATE_509H_REV2_C102.DWG 8/16/2021 12:38:03 PM bgregory

eog resources

Dragon 36 State 509H

Revised Permit Information 08/16/2021:

Well Name: Dragon 36 State 509H

Location: SHL: 664' FSL & 758' FWL, Section 36, T-24-S, R-33-E, Lea Co., N.M.
BHL: 100' FNL & 1574' FWL, Section 36, T-24-S, R-33-E, Lea Co., N.M.

Casing Program:

Hole Size	Interval	Csg OD	Weight	Grade	Conn	DFmin Collapse	DFmin Burst	DFmin Tension
16"	0' - 1,310'	13.375"	54.5#	J-55	STC	1.125	1.25	1.6
12.25"	0' - 4,000'	9.625"	40#	J-55	LTC	1.125	1.25	1.6
12.25"	4,000' - 5,110'	9.625"	40#	HCK-55	LTC	1.125	1.25	1.6
8.75"	0' - 11,446'	5.5"	17#	HCP-110	LTC	1.125	1.25	1.6
8.5"	11,446' - 16,111'	5.5"	17#	HCP-110	LTC	1.125	1.25	1.6

Variance is requested to waive the centralizer requirements for the 9-5/8" casing in the 12-1/4" hole size. An expansion additive will be utilized, in the cement slurry, for the entire length of the 12-1/4" hole interval to maximize cement bond and zonal isolation.

Variance is also requested to waive any centralizer requirements for the 5-1/2" casing in the 8-3/4" and 8-1/2" hole sizes. An expansion additive will be utilized, in the cement slurry, for the entire length of the 8-3/4" and 8-1/2" hole intervals to maximize cement bond and zonal isolation.

Cementing Program:

Depth	No. Sacks	Wt. ppg	Yld Ft3/sk	Slurry Description
1,310' 13.375"	390	13.5	1.73	Lead: Class C + 4.0% Bentonite Gel + 0.5% CaCl2 + 0.25 lb/sk Cello-Flake (TOC @ Surface)
	100	14.8	1.34	Tail: Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate (TOC @ 1,110')
5,110' 9.625"	740	12.7	2.22	Lead: Class C + 10% NaCl + 6% Bentonite Gel + 3% MagOx (TOC @ Surface)
	320	14.8	1.32	Tail: Class C + 10% NaCL + 3% MagOx (TOC @ 4,090')
16,111' 5.5"	610	11.0	3.21	Lead: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond (TOC @ 4,608')
	1330	14.4	1.2	Tail: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond (TOC @ 10,701')

eog resources

Dragon 36 State 509H

Additive	Purpose
Bentonite Gel	Lightweight/Lost circulation prevention
Calcium Chloride	Accelerator
Cello-flake	Lost circulation prevention
Sodium Metasilicate	Accelerator
MagOx	Expansive agent
Pre-Mag-M	Expansive agent
Sodium Chloride	Accelerator
FL-62	Fluid loss control
Halad-344	Fluid loss control
Halad-9	Fluid loss control
HR-601	Retarder
Microbond	Expansive Agent

Note: Cement volumes based on bit size plus at least 25% excess in the open hole plus 10% excess in the cased-hole overlap section.

Mud Program:

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 – 1,310'	Fresh - Gel	8.6-8.8	28-34	N/c
1,310' – 5,110'	Brine	8.6-8.8	28-34	N/c
5,110’ – 16,111’	Oil Base	8.8-9.5	58-68	N/c - 6

eog resources

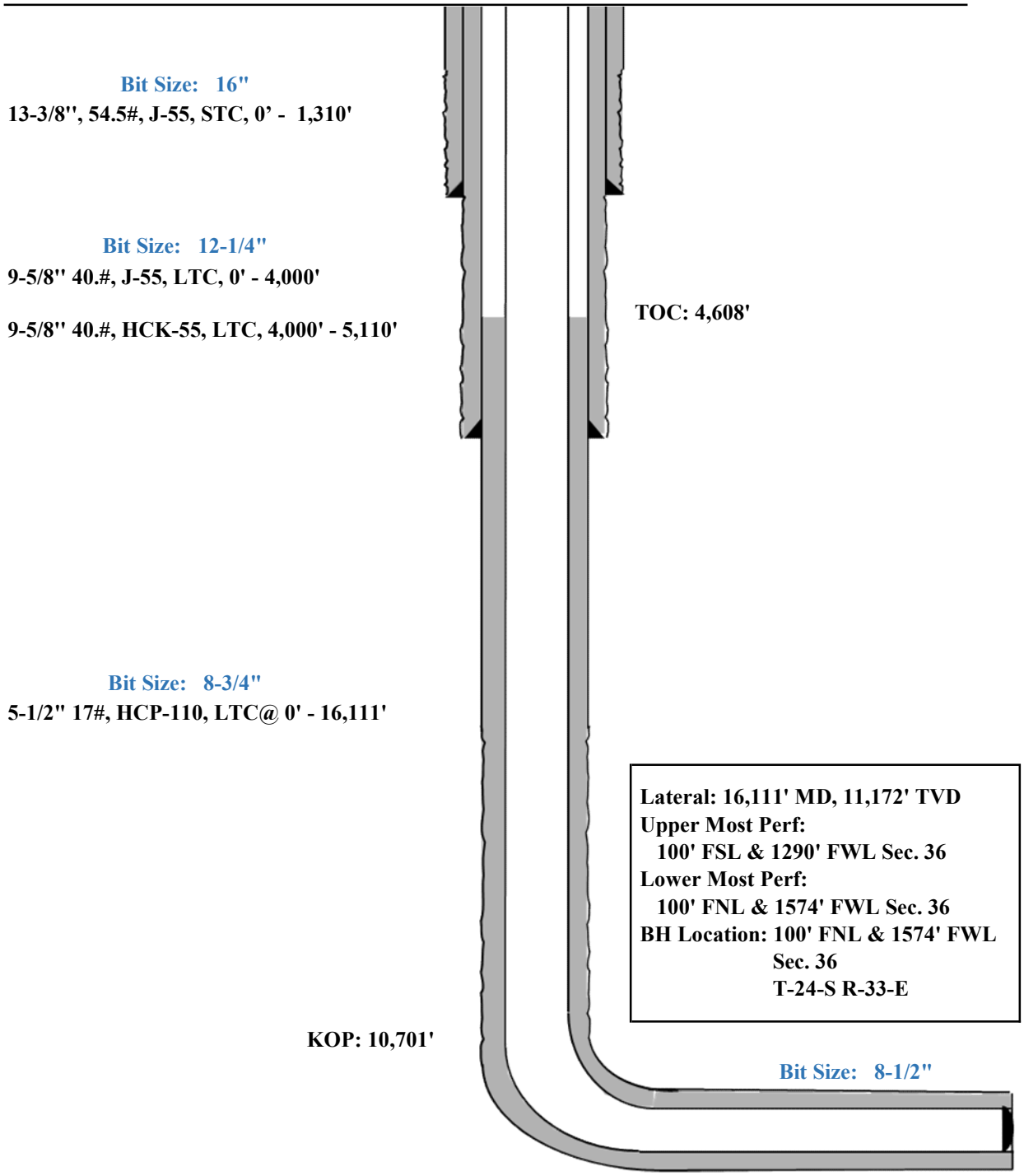
Dragon 36 State 509H

664' FSL
758' FWL
Section 36
T-24-S, R-33-E

Revised Wellbore

API: 30-025-49282

KB: 3516'
GL: 3491'



Midland

Lea County, NM (NAD 83 NME)
Dragon 36 State
#509H
142646
OH

Plan: Plan #0.2

Standard Planning Report

16 August, 2021

eog resources

Planning Report

Database:	PEDM	**Local Co-ordinate Reference:**	Well #509H
Company:	Midland	**TVD Reference:**	Kb = 26' @ 3517.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	Kb = 26' @ 3517.0usft
Site:	Dragon 36 State	**North Reference:**	Grid
Well:	#509H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.2		

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 Dragon 36 State

Site Position:		**Northing:**	426,079.00 usft	**Latitude:**	32° 10' 7.510 N
From:	Map	**Easting:**	793,102.00 usft	**Longitude:**	103° 31' 10.836 W
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "		

Well #509H

Well Position	**+N/-S**	0.0 usft	**Northing:**	426,009.00 usft	**Latitude:**	32° 10' 7.103 N
	+E/-W	0.0 usft	**Easting:**	789,249.00 usft	**Longitude:**	103° 31' 55.666 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**	usft	**Ground Level:**	3,491.0 usft
Grid Convergence:		0.43 °				

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	8/3/2021	6.51	59.85	47,450.94314149

Design Plan #0.2

Audit Notes:

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

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	9.82

Plan Survey Tool Program **Date** 8/16/2021

	Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	16,110.7	Plan #0.2 (OH)	EOG MWD+IFR1	
				MWD + IFR1	

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	
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,788.8	7.78	138.74	1,787.6	-19.8	17.4	2.00	2.00	0.00	138.74	
7,406.2	7.78	138.74	7,353.4	-591.2	518.6	0.00	0.00	0.00	0.00	
7,795.0	0.00	0.00	7,741.0	-611.0	536.0	2.00	-2.00	0.00	180.00	
10,701.0	0.00	0.00	10,647.0	-611.0	536.0	0.00	0.00	0.00	0.00	
11,446.2	89.42	2.74	11,124.4	-138.9	558.6	12.00	12.00	0.37	2.74	
16,110.7	89.42	2.74	11,172.0	4,520.0	782.0	0.00	0.00	0.00	0.00	PBHL(Dragon 36 Stat

eog resources

Planning Report

Database:	PEDM	**Local Co-ordinate Reference:**	Well #509H
Company:	Midland	**TVD Reference:**	Kb = 26' @ 3517.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	Kb = 26' @ 3517.0usft
Site:	Dragon 36 State	**North Reference:**	Grid
Well:	#509H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.2		

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	2.00	138.74	1,500.0	-1.3	1.2	-1.1	2.00	2.00	0.00
1,600.0	4.00	138.74	1,599.8	-5.2	4.6	-4.4	2.00	2.00	0.00
1,700.0	6.00	138.74	1,699.5	-11.8	10.3	-9.9	2.00	2.00	0.00
1,788.8	7.78	138.74	1,787.6	-19.8	17.4	-16.6	2.00	2.00	0.00
1,800.0	7.78	138.74	1,798.7	-20.9	18.4	-17.5	0.00	0.00	0.00
1,900.0	7.78	138.74	1,897.8	-31.1	27.3	-26.0	0.00	0.00	0.00
2,000.0	7.78	138.74	1,996.9	-41.3	36.2	-34.5	0.00	0.00	0.00
2,100.0	7.78	138.74	2,095.9	-51.5	45.1	-43.0	0.00	0.00	0.00
2,200.0	7.78	138.74	2,195.0	-61.6	54.1	-51.5	0.00	0.00	0.00
2,300.0	7.78	138.74	2,294.1	-71.8	63.0	-60.0	0.00	0.00	0.00
2,400.0	7.78	138.74	2,393.2	-82.0	71.9	-68.5	0.00	0.00	0.00
2,500.0	7.78	138.74	2,492.3	-92.1	80.8	-77.0	0.00	0.00	0.00
2,600.0	7.78	138.74	2,591.3	-102.3	89.8	-85.5	0.00	0.00	0.00
2,700.0	7.78	138.74	2,690.4	-112.5	98.7	-94.0	0.00	0.00	0.00
2,800.0	7.78	138.74	2,789.5	-122.7	107.6	-102.5	0.00	0.00	0.00
2,900.0	7.78	138.74	2,888.6	-132.8	116.5	-111.0	0.00	0.00	0.00
3,000.0	7.78	138.74	2,987.7	-143.0	125.4	-119.5	0.00	0.00	0.00
3,100.0	7.78	138.74	3,086.7	-153.2	134.4	-128.0	0.00	0.00	0.00
3,200.0	7.78	138.74	3,185.8	-163.3	143.3	-136.5	0.00	0.00	0.00
3,300.0	7.78	138.74	3,284.9	-173.5	152.2	-145.0	0.00	0.00	0.00
3,400.0	7.78	138.74	3,384.0	-183.7	161.1	-153.5	0.00	0.00	0.00
3,500.0	7.78	138.74	3,483.1	-193.9	170.1	-162.0	0.00	0.00	0.00
3,600.0	7.78	138.74	3,582.2	-204.0	179.0	-170.5	0.00	0.00	0.00
3,700.0	7.78	138.74	3,681.2	-214.2	187.9	-179.0	0.00	0.00	0.00
3,800.0	7.78	138.74	3,780.3	-224.4	196.8	-187.5	0.00	0.00	0.00
3,900.0	7.78	138.74	3,879.4	-234.5	205.8	-196.0	0.00	0.00	0.00
4,000.0	7.78	138.74	3,978.5	-244.7	214.7	-204.5	0.00	0.00	0.00
4,100.0	7.78	138.74	4,077.6	-254.9	223.6	-213.0	0.00	0.00	0.00
4,200.0	7.78	138.74	4,176.6	-265.1	232.5	-221.5	0.00	0.00	0.00
4,300.0	7.78	138.74	4,275.7	-275.2	241.5	-230.0	0.00	0.00	0.00
4,400.0	7.78	138.74	4,374.8	-285.4	250.4	-238.5	0.00	0.00	0.00
4,500.0	7.78	138.74	4,473.9	-295.6	259.3	-247.0	0.00	0.00	0.00
4,600.0	7.78	138.74	4,573.0	-305.8	268.2	-255.6	0.00	0.00	0.00
4,700.0	7.78	138.74	4,672.0	-315.9	277.1	-264.1	0.00	0.00	0.00
4,800.0	7.78	138.74	4,771.1	-326.1	286.1	-272.6	0.00	0.00	0.00
4,900.0	7.78	138.74	4,870.2	-336.3	295.0	-281.1	0.00	0.00	0.00
5,000.0	7.78	138.74	4,969.3	-346.4	303.9	-289.6	0.00	0.00	0.00
5,100.0	7.78	138.74	5,068.4	-356.6	312.8	-298.1	0.00	0.00	0.00
5,200.0	7.78	138.74	5,167.4	-366.8	321.8	-306.6	0.00	0.00	0.00

eog resources

Planning Report

Database:	PEDM	**Local Co-ordinate Reference:**	Well #509H
Company:	Midland	**TVD Reference:**	Kb = 26' @ 3517.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	Kb = 26' @ 3517.0usft
Site:	Dragon 36 State	**North Reference:**	Grid
Well:	#509H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.2		

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	7.78	138.74	5,266.5	-377.0	330.7	-315.1	0.00	0.00	0.00
5,400.0	7.78	138.74	5,365.6	-387.1	339.6	-323.6	0.00	0.00	0.00
5,500.0	7.78	138.74	5,464.7	-397.3	348.5	-332.1	0.00	0.00	0.00
5,600.0	7.78	138.74	5,563.8	-407.5	357.5	-340.6	0.00	0.00	0.00
5,700.0	7.78	138.74	5,662.8	-417.6	366.4	-349.1	0.00	0.00	0.00
5,800.0	7.78	138.74	5,761.9	-427.8	375.3	-357.6	0.00	0.00	0.00
5,900.0	7.78	138.74	5,861.0	-438.0	384.2	-366.1	0.00	0.00	0.00
6,000.0	7.78	138.74	5,960.1	-448.2	393.1	-374.6	0.00	0.00	0.00
6,100.0	7.78	138.74	6,059.2	-458.3	402.1	-383.1	0.00	0.00	0.00
6,200.0	7.78	138.74	6,158.2	-468.5	411.0	-391.6	0.00	0.00	0.00
6,300.0	7.78	138.74	6,257.3	-478.7	419.9	-400.1	0.00	0.00	0.00
6,400.0	7.78	138.74	6,356.4	-488.8	428.8	-408.6	0.00	0.00	0.00
6,500.0	7.78	138.74	6,455.5	-499.0	437.8	-417.1	0.00	0.00	0.00
6,600.0	7.78	138.74	6,554.6	-509.2	446.7	-425.6	0.00	0.00	0.00
6,700.0	7.78	138.74	6,653.6	-519.4	455.6	-434.1	0.00	0.00	0.00
6,800.0	7.78	138.74	6,752.7	-529.5	464.5	-442.6	0.00	0.00	0.00
6,900.0	7.78	138.74	6,851.8	-539.7	473.5	-451.1	0.00	0.00	0.00
7,000.0	7.78	138.74	6,950.9	-549.9	482.4	-459.6	0.00	0.00	0.00
7,100.0	7.78	138.74	7,050.0	-560.0	491.3	-468.1	0.00	0.00	0.00
7,200.0	7.78	138.74	7,149.0	-570.2	500.2	-476.6	0.00	0.00	0.00
7,300.0	7.78	138.74	7,248.1	-580.4	509.1	-485.1	0.00	0.00	0.00
7,406.2	7.78	138.74	7,353.4	-591.2	518.6	-494.1	0.00	0.00	0.00
7,500.0	5.90	138.74	7,446.5	-599.6	526.0	-501.1	2.00	-2.00	0.00
7,600.0	3.90	138.74	7,546.1	-606.0	531.6	-506.5	2.00	-2.00	0.00
7,700.0	1.90	138.74	7,646.0	-609.8	535.0	-509.7	2.00	-2.00	0.00
7,795.0	0.00	0.00	7,741.0	-611.0	536.0	-510.7	2.00	-2.00	0.00
7,800.0	0.00	0.00	7,746.0	-611.0	536.0	-510.7	0.00	0.00	0.00
7,900.0	0.00	0.00	7,846.0	-611.0	536.0	-510.7	0.00	0.00	0.00
8,000.0	0.00	0.00	7,946.0	-611.0	536.0	-510.7	0.00	0.00	0.00
8,100.0	0.00	0.00	8,046.0	-611.0	536.0	-510.7	0.00	0.00	0.00
8,200.0	0.00	0.00	8,146.0	-611.0	536.0	-510.7	0.00	0.00	0.00
8,300.0	0.00	0.00	8,246.0	-611.0	536.0	-510.7	0.00	0.00	0.00
8,400.0	0.00	0.00	8,346.0	-611.0	536.0	-510.7	0.00	0.00	0.00
8,500.0	0.00	0.00	8,446.0	-611.0	536.0	-510.7	0.00	0.00	0.00
8,600.0	0.00	0.00	8,546.0	-611.0	536.0	-510.7	0.00	0.00	0.00
8,700.0	0.00	0.00	8,646.0	-611.0	536.0	-510.7	0.00	0.00	0.00
8,800.0	0.00	0.00	8,746.0	-611.0	536.0	-510.7	0.00	0.00	0.00
8,900.0	0.00	0.00	8,846.0	-611.0	536.0	-510.7	0.00	0.00	0.00
9,000.0	0.00	0.00	8,946.0	-611.0	536.0	-510.7	0.00	0.00	0.00
9,100.0	0.00	0.00	9,046.0	-611.0	536.0	-510.7	0.00	0.00	0.00
9,200.0	0.00	0.00	9,146.0	-611.0	536.0	-510.7	0.00	0.00	0.00
9,300.0	0.00	0.00	9,246.0	-611.0	536.0	-510.7	0.00	0.00	0.00
9,400.0	0.00	0.00	9,346.0	-611.0	536.0	-510.7	0.00	0.00	0.00
9,500.0	0.00	0.00	9,446.0	-611.0	536.0	-510.7	0.00	0.00	0.00
9,600.0	0.00	0.00	9,546.0	-611.0	536.0	-510.7	0.00	0.00	0.00
9,700.0	0.00	0.00	9,646.0	-611.0	536.0	-510.7	0.00	0.00	0.00
9,800.0	0.00	0.00	9,746.0	-611.0	536.0	-510.7	0.00	0.00	0.00
9,900.0	0.00	0.00	9,846.0	-611.0	536.0	-510.7	0.00	0.00	0.00
10,000.0	0.00	0.00	9,946.0	-611.0	536.0	-510.7	0.00	0.00	0.00
10,100.0	0.00	0.00	10,046.0	-611.0	536.0	-510.7	0.00	0.00	0.00
10,200.0	0.00	0.00	10,146.0	-611.0	536.0	-510.7	0.00	0.00	0.00
10,300.0	0.00	0.00	10,246.0	-611.0	536.0	-510.7	0.00	0.00	0.00
10,400.0	0.00	0.00	10,346.0	-611.0	536.0	-510.7	0.00	0.00	0.00
10,500.0	0.00	0.00	10,446.0	-611.0	536.0	-510.7	0.00	0.00	0.00

eog resources

Planning Report

Database:	PEDM	**Local Co-ordinate Reference:**	Well #509H
Company:	Midland	**TVD Reference:**	Kb = 26' @ 3517.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	Kb = 26' @ 3517.0usft
Site:	Dragon 36 State	**North Reference:**	Grid
Well:	#509H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.2		

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)
10,600.0	0.00	0.00	10,546.0	-611.0	536.0	-510.7	0.00	0.00	0.00
10,701.0	0.00	0.00	10,647.0	-611.0	536.0	-510.7	0.00	0.00	0.00
10,725.0	2.87	2.74	10,670.9	-610.4	536.0	-510.1	12.00	12.00	0.00
10,750.0	5.87	2.74	10,695.9	-608.5	536.1	-508.2	12.00	12.00	0.00
10,775.0	8.87	2.74	10,720.7	-605.3	536.3	-505.0	12.00	12.00	0.00
10,800.0	11.87	2.74	10,745.2	-600.8	536.5	-500.5	12.00	12.00	0.00
10,825.0	14.87	2.74	10,769.6	-595.0	536.8	-494.8	12.00	12.00	0.00
10,850.0	17.87	2.74	10,793.5	-588.0	537.1	-487.8	12.00	12.00	0.00
10,875.0	20.87	2.74	10,817.1	-579.7	537.5	-479.6	12.00	12.00	0.00
10,900.0	23.87	2.74	10,840.2	-570.2	538.0	-470.1	12.00	12.00	0.00
10,925.0	26.87	2.74	10,862.8	-559.5	538.5	-459.5	12.00	12.00	0.00
10,950.0	29.87	2.74	10,884.8	-547.6	539.0	-447.7	12.00	12.00	0.00
10,975.0	32.87	2.74	10,906.2	-534.6	539.7	-434.8	12.00	12.00	0.00
11,000.0	35.87	2.74	10,926.8	-520.5	540.3	-420.8	12.00	12.00	0.00
11,025.0	38.87	2.74	10,946.7	-505.4	541.1	-405.7	12.00	12.00	0.00
11,050.0	41.87	2.74	10,965.7	-489.2	541.8	-389.7	12.00	12.00	0.00
11,075.0	44.87	2.74	10,983.9	-472.1	542.7	-372.6	12.00	12.00	0.00
11,100.0	47.87	2.74	11,001.1	-454.0	543.5	-354.7	12.00	12.00	0.00
11,125.0	50.87	2.74	11,017.4	-435.0	544.4	-335.8	12.00	12.00	0.00
11,150.0	53.87	2.74	11,032.7	-415.3	545.4	-316.2	12.00	12.00	0.00
11,175.0	56.87	2.74	11,046.9	-394.7	546.4	-295.8	12.00	12.00	0.00
11,200.0	59.87	2.74	11,060.0	-373.4	547.4	-274.7	12.00	12.00	0.00
11,225.0	62.87	2.74	11,071.9	-351.5	548.4	-252.9	12.00	12.00	0.00
11,250.0	65.87	2.74	11,082.8	-329.0	549.5	-230.5	12.00	12.00	0.00
11,275.0	68.87	2.74	11,092.4	-306.0	550.6	-207.6	12.00	12.00	0.00
11,300.0	71.87	2.74	11,100.8	-282.5	551.8	-184.3	12.00	12.00	0.00
11,325.0	74.87	2.74	11,107.9	-258.5	552.9	-160.5	12.00	12.00	0.00
11,350.0	77.87	2.74	11,113.8	-234.3	554.1	-136.4	12.00	12.00	0.00
11,375.0	80.87	2.74	11,118.4	-209.7	555.2	-112.0	12.00	12.00	0.00
11,400.0	83.87	2.74	11,121.7	-185.0	556.4	-87.4	12.00	12.00	0.00
11,425.0	86.87	2.74	11,123.8	-160.1	557.6	-62.7	12.00	12.00	0.00
11,446.2	89.42	2.74	11,124.4	-138.9	558.6	-41.7	12.00	12.00	0.00
11,500.0	89.42	2.74	11,125.0	-85.2	561.2	11.7	0.00	0.00	0.00
11,600.0	89.42	2.74	11,126.0	14.7	566.0	111.0	0.00	0.00	0.00
11,700.0	89.42	2.74	11,127.0	114.6	570.8	210.2	0.00	0.00	0.00
11,800.0	89.42	2.74	11,128.0	214.5	575.6	309.4	0.00	0.00	0.00
11,900.0	89.42	2.74	11,129.1	314.3	580.4	408.7	0.00	0.00	0.00
12,000.0	89.42	2.74	11,130.1	414.2	585.2	507.9	0.00	0.00	0.00
12,100.0	89.42	2.74	11,131.1	514.1	589.9	607.1	0.00	0.00	0.00
12,200.0	89.42	2.74	11,132.1	614.0	594.7	706.4	0.00	0.00	0.00
12,300.0	89.42	2.74	11,133.1	713.9	599.5	805.6	0.00	0.00	0.00
12,400.0	89.42	2.74	11,134.2	813.7	604.3	904.8	0.00	0.00	0.00
12,500.0	89.42	2.74	11,135.2	913.6	609.1	1,004.1	0.00	0.00	0.00
12,600.0	89.42	2.74	11,136.2	1,013.5	613.9	1,103.3	0.00	0.00	0.00
12,700.0	89.42	2.74	11,137.2	1,113.4	618.7	1,202.5	0.00	0.00	0.00
12,800.0	89.42	2.74	11,138.2	1,213.3	623.5	1,301.8	0.00	0.00	0.00
12,900.0	89.42	2.74	11,139.3	1,313.1	628.3	1,401.0	0.00	0.00	0.00
13,000.0	89.42	2.74	11,140.3	1,413.0	633.0	1,500.2	0.00	0.00	0.00
13,100.0	89.42	2.74	11,141.3	1,512.9	637.8	1,599.5	0.00	0.00	0.00
13,200.0	89.42	2.74	11,142.3	1,612.8	642.6	1,698.7	0.00	0.00	0.00
13,300.0	89.42	2.74	11,143.3	1,712.7	647.4	1,797.9	0.00	0.00	0.00
13,400.0	89.42	2.74	11,144.4	1,812.5	652.2	1,897.2	0.00	0.00	0.00
13,500.0	89.42	2.74	11,145.4	1,912.4	657.0	1,996.4	0.00	0.00	0.00
13,600.0	89.42	2.74	11,146.4	2,012.3	661.8	2,095.7	0.00	0.00	0.00

eog resources

Planning Report

Database:	PEDM	**Local Co-ordinate Reference:**	Well #509H
Company:	Midland	**TVD Reference:**	Kb = 26' @ 3517.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	Kb = 26' @ 3517.0usft
Site:	Dragon 36 State	**North Reference:**	Grid
Well:	#509H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.2		

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)
13,700.0	89.42	2.74	11,147.4	2,112.2	666.6	2,194.9	0.00	0.00	0.00
13,800.0	89.42	2.74	11,148.4	2,212.1	671.3	2,294.1	0.00	0.00	0.00
13,900.0	89.42	2.74	11,149.5	2,311.9	676.1	2,393.4	0.00	0.00	0.00
14,000.0	89.42	2.74	11,150.5	2,411.8	680.9	2,492.6	0.00	0.00	0.00
14,100.0	89.42	2.74	11,151.5	2,511.7	685.7	2,591.8	0.00	0.00	0.00
14,200.0	89.42	2.74	11,152.5	2,611.6	690.5	2,691.1	0.00	0.00	0.00
14,300.0	89.42	2.74	11,153.5	2,711.5	695.3	2,790.3	0.00	0.00	0.00
14,400.0	89.42	2.74	11,154.6	2,811.3	700.1	2,889.5	0.00	0.00	0.00
14,500.0	89.42	2.74	11,155.6	2,911.2	704.9	2,988.8	0.00	0.00	0.00
14,600.0	89.42	2.74	11,156.6	3,011.1	709.7	3,088.0	0.00	0.00	0.00
14,700.0	89.42	2.74	11,157.6	3,111.0	714.4	3,187.2	0.00	0.00	0.00
14,800.0	89.42	2.74	11,158.6	3,210.9	719.2	3,286.5	0.00	0.00	0.00
14,900.0	89.42	2.74	11,159.7	3,310.7	724.0	3,385.7	0.00	0.00	0.00
15,000.0	89.42	2.74	11,160.7	3,410.6	728.8	3,484.9	0.00	0.00	0.00
15,100.0	89.42	2.74	11,161.7	3,510.5	733.6	3,584.2	0.00	0.00	0.00
15,200.0	89.42	2.74	11,162.7	3,610.4	738.4	3,683.4	0.00	0.00	0.00
15,300.0	89.42	2.74	11,163.7	3,710.3	743.2	3,782.6	0.00	0.00	0.00
15,400.0	89.42	2.74	11,164.8	3,810.1	748.0	3,881.9	0.00	0.00	0.00
15,500.0	89.42	2.74	11,165.8	3,910.0	752.8	3,981.1	0.00	0.00	0.00
15,600.0	89.42	2.74	11,166.8	4,009.9	757.5	4,080.3	0.00	0.00	0.00
15,700.0	89.42	2.74	11,167.8	4,109.8	762.3	4,179.6	0.00	0.00	0.00
15,800.0	89.42	2.74	11,168.8	4,209.7	767.1	4,278.8	0.00	0.00	0.00
15,900.0	89.42	2.74	11,169.9	4,309.5	771.9	4,378.0	0.00	0.00	0.00
16,000.0	89.42	2.74	11,170.9	4,409.4	776.7	4,477.3	0.00	0.00	0.00
16,100.0	89.42	2.74	11,171.9	4,509.3	781.5	4,576.5	0.00	0.00	0.00
16,110.7	89.42	2.74	11,172.0	4,520.0	782.0	4,587.1	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(Dragon 36 S	0.00	0.00	7,741.0	-611.0	536.0	425,398.00	789,785.00	32° 10' 1.018 N	103° 31' 49.484 W
- plan hits target center									
- Polygon									
Point 1			7,741.0	50.0	-60.0	425,448.00	789,725.00		
Point 2			7,741.0	50.0	60.0	425,448.00	789,845.00		
Point 3			7,741.0	-30.0	60.0	425,368.00	789,845.00		
Point 4			7,741.0	-30.0	-60.0	425,368.00	789,725.00		
PBHL(Dragon 36 State #	90.00	11.05	11,172.0	4,520.0	782.0	430,529.00	790,031.00	32° 10' 51.772 N	103° 31' 46.176 W
- plan hits target center									
- Rectangle (sides W60.0 H0.0 D1,236.0)									
TGT#1(Dragon 36 State	90.00	359.57	11,192.0	2,916.7	509.8	428,925.70	789,758.82	32° 10' 35.927 N	103° 31' 49.482 W
- plan misses target center by 198.5usft at 14496.5usft MD (11155.5 TVD, 2907.7 N, 704.7 E)									
- Rectangle (sides W60.0 H0.0 D3,477.0)									
FTP(Dragon 36 State #5	0.00	0.00	11,220.0	-561.0	536.0	425,448.00	789,785.00	32° 10' 1.512 N	103° 31' 49.479 W
- plan misses target center by 237.5usft at 11148.7usft MD (11031.9 TVD, -416.3 N, 545.3 E)									
- Point									

eog resources

Planning Report

Database:	PEDM	**Local Co-ordinate Reference:**	Well #509H
Company:	Midland	**TVD Reference:**	Kb = 26' @ 3517.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	Kb = 26' @ 3517.0usft
Site:	Dragon 36 State	**North Reference:**	Grid
Well:	#509H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.2		

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,191.0	1,191.0	Rustler			
1,277.0	1,277.0	Tamarisk Anhydrite			
1,697.5	1,697.0	Top of Salt			
5,039.1	5,008.0	Bottom of Salt			
5,289.4	5,256.0	Lamar			
5,311.6	5,278.0	Bell Canyon			
6,272.4	6,230.0	Cherry Canyon			
7,795.0	7,741.0	Brushy Canyon Por. MKR			
7,842.0	7,788.0	Brushy Canyon			
9,327.0	9,273.0	Bone Spring Lime			
9,403.0	9,349.0	Leonard A			
9,728.0	9,674.0	Leonard B			
10,321.0	10,267.0	First Bone Spring Sand			
10,564.0	10,510.0	Second Bone Spring Shale			
10,910.7	10,850.0	Second Bone Spring Sand			
15,326.1	11,164.0	SBSG D2 Sand			

eog resources

Lea County, NM (NAD 83 NME)

Dragon 36 State #509H

Plan #0.2

Azimuths to Grid North
True North: -0.43°
Magnetic North: 6.08°

Magnetic Field
Strength: 47450.9nT
Dip Angle: 59.85°
Date: 8/3/2021
Model: IGRF2020

To convert a Magnetic Direction to a Grid Direction, Add 6.08°
To convert a Magnetic Direction to a True Direction, Add 6.51° East
To convert a True Direction to a Grid Direction, Subtract 0.43°

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

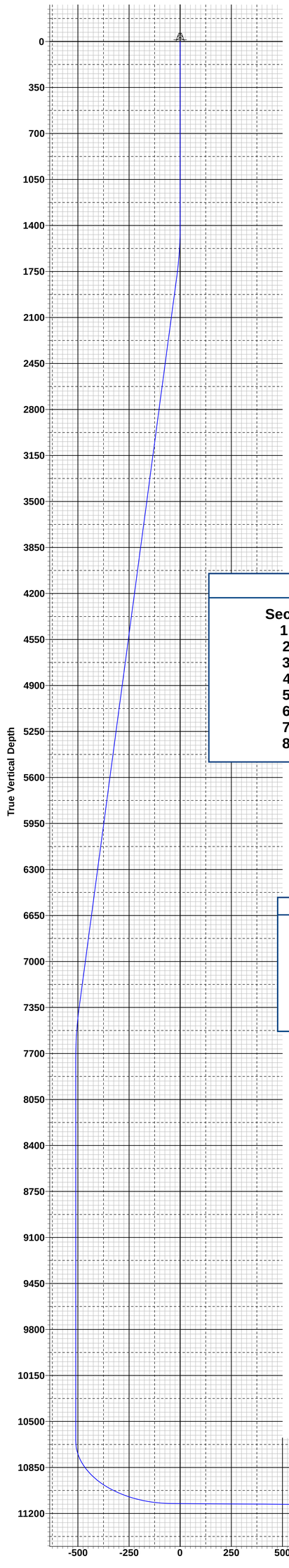
WELL DETAILS: #509H

3491.0
Kb = 26' @ 3517.0usft

Northing	Easting	Latittude	Longitude
426009.00	789249.00	32° 10' 7.103 N	103° 31' 55.666 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	1400.0	0.00	0.00	1400.0	0.0	0.0	0.00	0.00	0.0	
3	1788.8	7.78	138.74	1787.6	-19.8	17.4	2.00	138.74	-16.6	
4	7406.2	7.78	138.74	7353.4	-591.2	518.6	0.00	0.00	-494.1	
5	7795.0	0.00	0.00	7741.0	-611.0	536.0	2.00	180.00	-510.7	
6	10701.0	0.00	0.00	10647.0	-611.0	536.0	0.00	0.00	-510.7	
7	11446.2	89.42	2.74	11124.4	-138.9	558.6	12.00	2.74	-41.7	
8	16110.7	89.42	2.74	11172.0	4520.0	782.0	0.00	0.00	4587.1	PBHL(Dragon 36 State #509H)

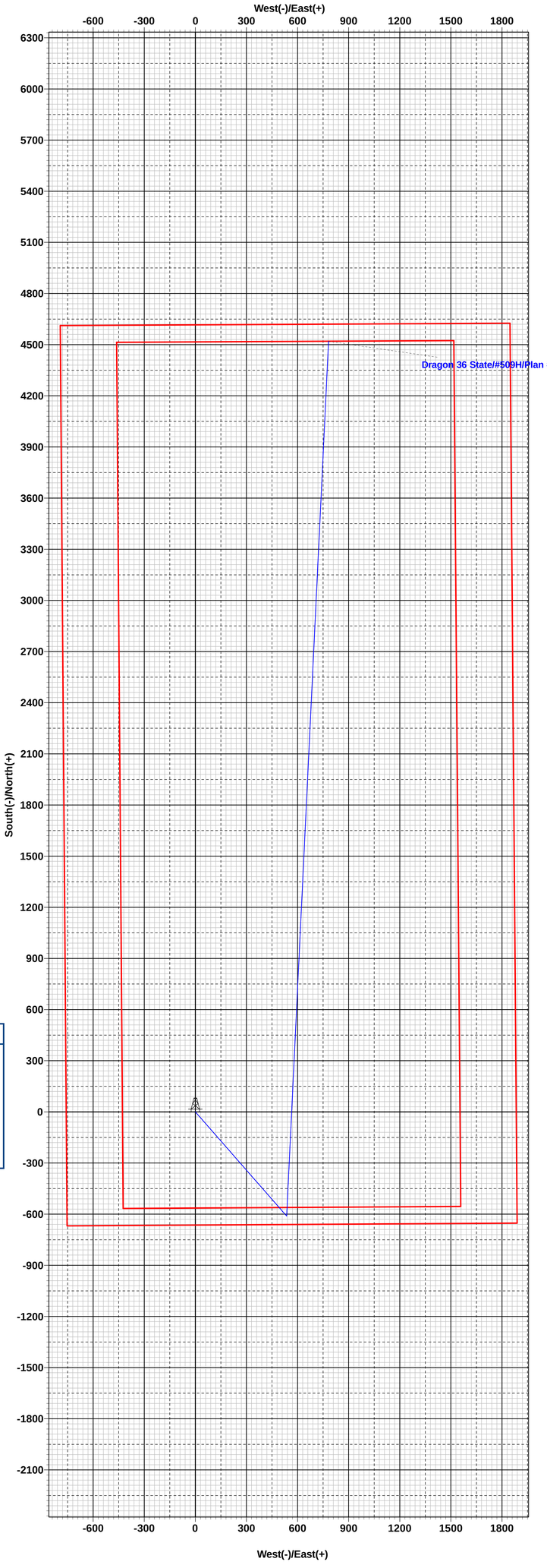


CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
PBHL(Dragon 36 State #509H)	11172.0	4520.0	782.0	430529.00	790031.00
Brushy Top(Dragon 36 State #509H)	7741.0	-611.0	536.0	425398.00	789785.00
FTP(Dragon 36 State #509H)	11220.0	-561.0	536.0	425448.00	789785.00
TGT#1(Dragon 36 State #509H)	11192.0	2916.7	509.8	428925.70	789758.82



Lea County, NM (NAD 83 NME)
Dragon 36 State
#509H
OH
Plan #0.2
14:51, August 16 2021

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 Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 42383
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	None	8/26/2021