

Submit 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

Form C-103
 Revised July 18, 2013

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

WELL API NO. 30-025-49793
5. Indicate Type of Lease STATE ☒ FEE ☐
6. State Oil & Gas Lease No. 325727
7. Lease Name or Unit Agreement Name Quijote 2 State Com
8. Well Number 401H
9. OGRID Number 7377
10. Pool name or Wildcat Jennings; Upper Bone Spring Shale-97838

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, Inc.	
3. Address of Operator P.O. Box 2267, Midland, Texas 79702	
4. Well Location Unit Letter <u>A</u> : <u>365</u> feet from the <u>North</u> line and <u>862</u> feet from the East line Section <u>2</u> <u>26S</u> Township <u>32E</u> Range <u>NMNM</u> Lea County	
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3340' GR	

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 ☒	COMMENCE DRILLING OPNS. ☐	P AND A ☐
PULL OR ALTER CASING ☐	MULTIPLE COMPL ☐	CASING/CEMENT JOB ☐	
DOWNHOLE COMMINGLE ☐			
CLOSED-LOOP SYSTEM ☐			
OTHER: ☐		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 name from 401H to Quijote 2 State Com 591H

Change the BHL from T-26-S, R-32-E, Sec 2, 100' FSL, 1065' FEL, Lea Co, NM to T-26-S, R-32-E, Sec 2, 100' FSL, 1565' FEL, Lea Co, NM

Update casing and cement program to current design.

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 Specialist DATE 4/13/2022

Type or print name Star Harrell E-mail address: star_harrell@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 30-025-49793		² Pool Code 97903	³ Pool Name WC-025 G-08 S253235G;LOWER BONE SPRING
⁴ Property Code 325727	⁵ Property Name QUIJOTE 2 STATE COM		⁶ Well Number 591H
⁷ OGRID No. 7377	⁸ Operator Name EOG RESOURCES, INC.		⁹ Elevation 3340'

¹⁰**Surface Location**

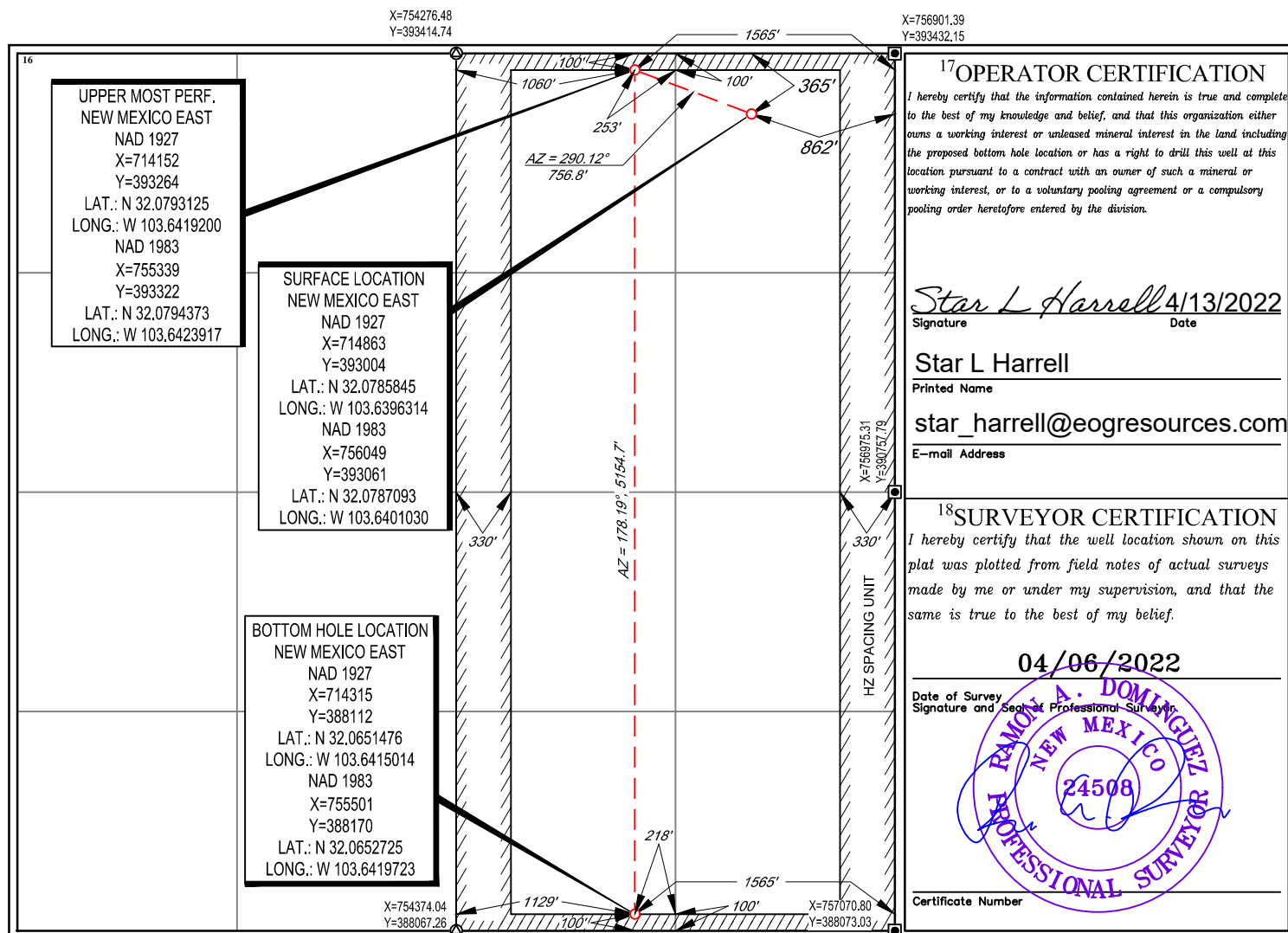
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	2	26-S	32-E	—	365'	NORTH	862'	EAST	LEA

¹¹Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	2	26-S	32-E	—	100'	SOUTH	1565'	EAST	LEA

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





Quijote 2 State 591H

365' FNL
862' FEL
Section 2
T-26-S, R-32-E

Revised Wellbore

KB: 3365'
GL: 3340'

API: 30-025-49793

Bit Size: 16"
13-3/8", 54.5#, J-55, STC, 0' - 890'

Bit Size: 12-1/4"
9-5/8" 40#, J-55, LTC, 0' - 4,000'
9-5/8" 40#, HCK-55, LTC, 4,000' - 4,520'

TOC: 10,580'

Bit Size: 7-7/8"
5-1/2", 17#, HCP-110, LTC
@ 0' - 16,580'

KOP: 11,102'

Lateral: 16,580' MD, 11,529' TVD
BH Location: 100' FSL & 1565' FEL
Sec. 2
T-26-S R-32-E



Quijote 2 State 591H

Permit Information:

Well Name: Quijote 2 State 591H

Location: SHL: 365' FNL & 862' FEL, Section 2, T-26-S, R-32-E, Lea Co., N.M.

BHL: 100' FSL & 1565' FEL, Section 2, T-26-S, R-32-E, Lea Co., N.M.

Casing Program:

Hole Size	Interval	Csg OD	Weight	Grade	Conn	DFmin Collapse	DFmin Burst	DFmin Tension
16"	0' - 890'	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' - 4,520'	9.625"	40#	HCK-55	LTC	1.125	1.25	1.6
7.875"	0' - 16,580'	5.5"	17#	HCP-110	LTC	1.125	1.25	1.6

Cementing Program:

Depth	No. Sacks	Wt. ppg	Yld Ft3/sk	Slurry Description
890'	270	13.5	1.73	Lead: Class C + 4.0% Bentonite Gel + 0.5% CaCl ₂ + 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
4,520'	660	12.7	2.22	Lead: Class C + 10% NaCl + 6% Bentonite Gel + 3% MagOx (TOC @ Surface)
	290	14.8	1.32	Tail: Class C + 10% NaCl + 3% MagOx
16,580'	510	11.0	3.21	Lead: Class C + 3% CaCl ₂ + 3% Microbond (TOC @ 10,580')
	800	13.2	1.52	Tail: Class H + 5% NEX-020 + 0.2% NAC-102 + 0.15% NAS-725 + 0.5% NFL-549 + 0.2% NFP-703 + 1% NBE-737 + 0.3% NRT-241

Mud Program:

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 – 890'	Fresh - Gel	8.6-8.8	28-34	N/c
890' – 4,520'	Brine	8.6-8.8	28-34	N/c
4,520' – 16,580' Lateral	Oil Base	8.8-9.5	58-68	N/c - 6



Midland

Lea County, NM (NAD 83 NME)

Quijote 2 State Com

#591H

143117

OH

Plan: Plan #0.2

Standard Planning Report

12 April, 2022





Planning Report



Database:	PEDM	Local Co-ordinate Reference:	Well #591H
Company:	Midland	TVD Reference:	KB = 26' @ 3366.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 26' @ 3366.0usft
Site:	Quijote 2 State Com	North Reference:	Grid
Well:	#591H	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	Quijote 2 State Com		
Site Position:		Northing:	393,066.99 usft
From:	Map	Easting:	756,153.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32.0787226°N
		Longitude:	103.6397676°W

Well	#591H		
Well Position	+N/-S	0.0 usft	Northing:
	+E/-W	0.0 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
Grid Convergence:	0.37 °	Latitude:	32.0787080°N
		Longitude:	103.6401035°W
		Ground Level:	3,340.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	2/18/2022	6.49	59.73	47,330.85563874

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	186.39	

Plan Survey Tool Program	Date	4/12/2022			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.0	16,499.2 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	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.00	0.00	0.00	0.00	



Planning Report



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Company:	Midland	TVD Reference:	KB = 26' @ 3366.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 26' @ 3366.0usft
Site:	Quijote 2 State Com	North Reference:	Grid
Well:	#591H	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
753.0	0.00	0.00	753.0	0.0	0.0	0.0	0.00	0.00	0.00
RSLR									
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
836.0	0.00	0.00	836.0	0.0	0.0	0.0	0.00	0.00	0.00
TMSK_ANHY									
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
1,043.0	0.86	293.60	1,043.0	0.1	-0.3	-0.1	2.00	2.00	0.00
Salt Top									
1,100.0	2.00	293.60	1,100.0	0.7	-1.6	-0.5	2.00	2.00	0.00
1,200.0	4.00	293.60	1,199.8	2.8	-6.4	-2.1	2.00	2.00	0.00
1,300.0	6.00	293.60	1,299.5	6.3	-14.4	-4.6	2.00	2.00	0.00
1,380.5	7.61	293.60	1,379.3	10.1	-23.1	-7.5	2.00	2.00	0.00
1,400.0	7.61	293.60	1,398.7	11.1	-25.5	-8.2	0.00	0.00	0.00
1,500.0	7.61	293.60	1,497.8	16.4	-37.6	-12.1	0.00	0.00	0.00
1,600.0	7.61	293.60	1,596.9	21.7	-49.8	-16.1	0.00	0.00	0.00
1,700.0	7.61	293.60	1,696.1	27.0	-61.9	-20.0	0.00	0.00	0.00
1,800.0	7.61	293.60	1,795.2	32.3	-74.0	-23.9	0.00	0.00	0.00
1,900.0	7.61	293.60	1,894.3	37.6	-86.2	-27.8	0.00	0.00	0.00
2,000.0	7.61	293.60	1,993.4	42.9	-98.3	-31.7	0.00	0.00	0.00
2,100.0	7.61	293.60	2,092.5	48.3	-110.4	-35.7	0.00	0.00	0.00
2,200.0	7.61	293.60	2,191.7	53.6	-122.6	-39.6	0.00	0.00	0.00
2,300.0	7.61	293.60	2,290.8	58.9	-134.7	-43.5	0.00	0.00	0.00
2,400.0	7.61	293.60	2,389.9	64.2	-146.8	-47.4	0.00	0.00	0.00
2,500.0	7.61	293.60	2,489.0	69.5	-159.0	-51.3	0.00	0.00	0.00
2,600.0	7.61	293.60	2,588.1	74.8	-171.1	-55.2	0.00	0.00	0.00
2,700.0	7.61	293.60	2,687.3	80.1	-183.2	-59.2	0.00	0.00	0.00
2,800.0	7.61	293.60	2,786.4	85.4	-195.4	-63.1	0.00	0.00	0.00
2,900.0	7.61	293.60	2,885.5	90.7	-207.5	-67.0	0.00	0.00	0.00
3,000.0	7.61	293.60	2,984.6	96.0	-219.6	-70.9	0.00	0.00	0.00
3,100.0	7.61	293.60	3,083.7	101.3	-231.8	-74.8	0.00	0.00	0.00
3,200.0	7.61	293.60	3,182.9	106.6	-243.9	-78.8	0.00	0.00	0.00
3,300.0	7.61	293.60	3,282.0	111.9	-256.0	-82.7	0.00	0.00	0.00
3,400.0	7.61	293.60	3,381.1	117.2	-268.2	-86.6	0.00	0.00	0.00
3,500.0	7.61	293.60	3,480.2	122.5	-280.3	-90.5	0.00	0.00	0.00
3,600.0	7.61	293.60	3,579.3	127.8	-292.4	-94.4	0.00	0.00	0.00
3,700.0	7.61	293.60	3,678.5	133.1	-304.6	-98.3	0.00	0.00	0.00
3,800.0	7.61	293.60	3,777.6	138.4	-316.7	-102.3	0.00	0.00	0.00
3,900.0	7.61	293.60	3,876.7	143.7	-328.8	-106.2	0.00	0.00	0.00
4,000.0	7.61	293.60	3,975.8	149.0	-341.0	-110.1	0.00	0.00	0.00
4,100.0	7.61	293.60	4,074.9	154.3	-353.1	-114.0	0.00	0.00	0.00
4,200.0	7.61	293.60	4,174.1	159.6	-365.2	-117.9	0.00	0.00	0.00
4,300.0	7.61	293.60	4,273.2	164.9	-377.4	-121.9	0.00	0.00	0.00
4,400.0	7.61	293.60	4,372.3	170.2	-389.5	-125.8	0.00	0.00	0.00
4,500.0	7.61	293.60	4,471.4	175.5	-401.6	-129.7	0.00	0.00	0.00



Planning Report



Database:	PEDM	Local Co-ordinate Reference:	Well #591H
Company:	Midland	TVD Reference:	KB = 26' @ 3366.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 26' @ 3366.0usft
Site:	Quijote 2 State Com	North Reference:	Grid
Well:	#591H	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)
4,518.8	7.61	293.60	4,490.0	176.5	-403.9	-130.4	0.00	0.00	0.00
Salt Base									
4,600.0	7.61	293.60	4,570.5	180.8	-413.8	-133.6	0.00	0.00	0.00
4,700.0	7.61	293.60	4,669.7	186.1	-425.9	-137.5	0.00	0.00	0.00
4,746.8	7.61	293.60	4,716.0	188.6	-431.6	-139.4	0.00	0.00	0.00
LMAR									
4,772.0	7.61	293.60	4,741.0	189.9	-434.6	-140.3	0.00	0.00	0.00
BLCN									
4,800.0	7.61	293.60	4,768.8	191.4	-438.0	-141.4	0.00	0.00	0.00
4,900.0	7.61	293.60	4,867.9	196.7	-450.2	-145.4	0.00	0.00	0.00
5,000.0	7.61	293.60	4,967.0	202.0	-462.3	-149.3	0.00	0.00	0.00
5,100.0	7.61	293.60	5,066.1	207.3	-474.4	-153.2	0.00	0.00	0.00
5,200.0	7.61	293.60	5,165.2	212.6	-486.6	-157.1	0.00	0.00	0.00
5,300.0	7.61	293.60	5,264.4	217.9	-498.7	-161.0	0.00	0.00	0.00
5,400.0	7.61	293.60	5,363.5	223.2	-510.8	-165.0	0.00	0.00	0.00
5,500.0	7.61	293.60	5,462.6	228.5	-523.0	-168.9	0.00	0.00	0.00
5,600.0	7.61	293.60	5,561.7	233.8	-535.1	-172.8	0.00	0.00	0.00
5,700.0	7.61	293.60	5,660.8	239.1	-547.2	-176.7	0.00	0.00	0.00
5,761.7	7.61	293.60	5,722.0	242.4	-554.7	-179.1	0.00	0.00	0.00
CYCN									
5,800.0	7.61	293.60	5,760.0	244.4	-559.4	-180.6	0.00	0.00	0.00
5,900.0	7.61	293.60	5,859.1	249.7	-571.5	-184.5	0.00	0.00	0.00
6,000.0	7.61	293.60	5,958.2	255.0	-583.6	-188.5	0.00	0.00	0.00
6,100.0	7.61	293.60	6,057.3	260.3	-595.8	-192.4	0.00	0.00	0.00
6,200.0	7.61	293.60	6,156.4	265.6	-607.9	-196.3	0.00	0.00	0.00
6,300.0	7.61	293.60	6,255.6	270.9	-620.0	-200.2	0.00	0.00	0.00
6,400.0	7.61	293.60	6,354.7	276.2	-632.2	-204.1	0.00	0.00	0.00
6,500.0	7.61	293.60	6,453.8	281.5	-644.3	-208.1	0.00	0.00	0.00
6,600.0	7.61	293.60	6,552.9	286.8	-656.5	-212.0	0.00	0.00	0.00
6,700.0	7.61	293.60	6,652.0	292.2	-668.6	-215.9	0.00	0.00	0.00
6,800.0	7.61	293.60	6,751.2	297.5	-680.7	-219.8	0.00	0.00	0.00
6,861.0	7.61	293.60	6,811.7	300.7	-688.1	-222.2	0.00	0.00	0.00
6,900.0	6.83	293.60	6,850.3	302.6	-692.6	-223.6	2.00	-2.00	0.00
7,000.0	4.83	293.60	6,949.8	306.7	-701.9	-226.7	2.00	-2.00	0.00
7,100.0	2.83	293.60	7,049.6	309.4	-708.0	-228.6	2.00	-2.00	0.00
7,200.0	0.83	293.60	7,149.5	310.7	-711.0	-229.6	2.00	-2.00	0.00
7,241.5	0.00	178.21	7,191.0	310.8	-711.2	-229.7	2.00	-2.00	0.00
Brushy Canyon Por. MKR									
7,300.0	0.00	0.00	7,249.5	310.8	-711.2	-229.7	0.00	0.00	0.00
7,341.5	0.00	0.00	7,291.0	310.8	-711.2	-229.7	0.00	0.00	0.00
BYCN									
7,400.0	0.00	0.00	7,349.5	310.8	-711.2	-229.7	0.00	0.00	0.00
7,500.0	0.00	0.00	7,449.5	310.8	-711.2	-229.7	0.00	0.00	0.00
7,600.0	0.00	0.00	7,549.5	310.8	-711.2	-229.7	0.00	0.00	0.00
7,700.0	0.00	0.00	7,649.5	310.8	-711.2	-229.7	0.00	0.00	0.00
7,800.0	0.00	0.00	7,749.5	310.8	-711.2	-229.7	0.00	0.00	0.00
7,900.0	0.00	0.00	7,849.5	310.8	-711.2	-229.7	0.00	0.00	0.00
8,000.0	0.00	0.00	7,949.5	310.8	-711.2	-229.7	0.00	0.00	0.00
8,100.0	0.00	0.00	8,049.5	310.8	-711.2	-229.7	0.00	0.00	0.00
8,200.0	0.00	0.00	8,149.5	310.8	-711.2	-229.7	0.00	0.00	0.00
8,300.0	0.00	0.00	8,249.5	310.8	-711.2	-229.7	0.00	0.00	0.00
8,400.0	0.00	0.00	8,349.5	310.8	-711.2	-229.7	0.00	0.00	0.00
8,500.0	0.00	0.00	8,449.5	310.8	-711.2	-229.7	0.00	0.00	0.00



Planning Report



Database:	PEDM	Local Co-ordinate Reference:	Well #591H
Company:	Midland	TVD Reference:	KB = 26' @ 3366.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 26' @ 3366.0usft
Site:	Quijote 2 State Com	North Reference:	Grid
Well:	#591H	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)
8,600.0	0.00	0.00	8,549.5	310.8	-711.2	-229.7	0.00	0.00	0.00
8,700.0	0.00	0.00	8,649.5	310.8	-711.2	-229.7	0.00	0.00	0.00
8,800.0	0.00	0.00	8,749.5	310.8	-711.2	-229.7	0.00	0.00	0.00
8,900.0	0.00	0.00	8,849.5	310.8	-711.2	-229.7	0.00	0.00	0.00
9,000.0	0.00	0.00	8,949.5	310.8	-711.2	-229.7	0.00	0.00	0.00
9,001.5	0.00	0.00	8,951.0	310.8	-711.2	-229.7	0.00	0.00	0.00
Bone Spring Lime									
9,037.1	0.00	0.00	8,986.6	310.8	-711.2	-229.7	0.00	0.00	0.00
Leonard A									
9,100.0	0.00	0.00	9,049.5	310.8	-711.2	-229.7	0.00	0.00	0.00
9,200.0	0.00	0.00	9,149.5	310.8	-711.2	-229.7	0.00	0.00	0.00
9,300.0	0.00	0.00	9,249.5	310.8	-711.2	-229.7	0.00	0.00	0.00
9,400.0	0.00	0.00	9,349.5	310.8	-711.2	-229.7	0.00	0.00	0.00
9,500.0	0.00	0.00	9,449.5	310.8	-711.2	-229.7	0.00	0.00	0.00
9,587.1	0.00	0.00	9,536.6	310.8	-711.2	-229.7	0.00	0.00	0.00
Leonard B									
9,600.0	0.00	0.00	9,549.5	310.8	-711.2	-229.7	0.00	0.00	0.00
9,700.0	0.00	0.00	9,649.5	310.8	-711.2	-229.7	0.00	0.00	0.00
9,800.0	0.00	0.00	9,749.5	310.8	-711.2	-229.7	0.00	0.00	0.00
9,900.0	0.00	0.00	9,849.5	310.8	-711.2	-229.7	0.00	0.00	0.00
9,922.1	0.00	0.00	9,871.6	310.8	-711.2	-229.7	0.00	0.00	0.00
First Bone Spring Sand									
10,000.0	0.00	0.00	9,949.5	310.8	-711.2	-229.7	0.00	0.00	0.00
10,100.0	0.00	0.00	10,049.5	310.8	-711.2	-229.7	0.00	0.00	0.00
10,175.1	0.00	0.00	10,124.6	310.8	-711.2	-229.7	0.00	0.00	0.00
SBSG Shale									
10,200.0	0.00	0.00	10,149.5	310.8	-711.2	-229.7	0.00	0.00	0.00
10,300.0	0.00	0.00	10,249.5	310.8	-711.2	-229.7	0.00	0.00	0.00
10,400.0	0.00	0.00	10,349.5	310.8	-711.2	-229.7	0.00	0.00	0.00
10,500.0	0.00	0.00	10,449.5	310.8	-711.2	-229.7	0.00	0.00	0.00
10,525.1	0.00	0.00	10,474.6	310.8	-711.2	-229.7	0.00	0.00	0.00
SBSG Sand									
10,600.0	0.00	0.00	10,549.5	310.8	-711.2	-229.7	0.00	0.00	0.00
10,700.0	0.00	0.00	10,649.5	310.8	-711.2	-229.7	0.00	0.00	0.00
10,800.0	0.00	0.00	10,749.5	310.8	-711.2	-229.7	0.00	0.00	0.00
10,900.0	0.00	0.00	10,849.5	310.8	-711.2	-229.7	0.00	0.00	0.00
10,934.1	0.00	0.00	10,883.6	310.8	-711.2	-229.7	0.00	0.00	0.00
SBSG E Sand									
11,000.0	0.00	0.00	10,949.5	310.8	-711.2	-229.7	0.00	0.00	0.00
11,011.5	0.00	0.00	10,961.0	310.8	-711.2	-229.7	0.00	0.00	0.00
Third Bone Spring Carb									
11,101.5	0.00	178.21	11,051.0	310.8	-711.2	-229.7	0.00	0.00	0.00
11,125.0	2.80	178.57	11,074.5	310.2	-711.2	-229.1	11.91	11.91	0.00
11,150.0	5.77	178.57	11,099.4	308.3	-711.2	-227.2	11.91	11.91	0.00
11,175.0	8.75	178.57	11,124.2	305.2	-711.1	-224.1	11.91	11.91	0.00
11,200.0	11.73	178.57	11,148.8	300.7	-711.0	-219.7	11.91	11.91	0.00
11,225.0	14.70	178.57	11,173.2	295.0	-710.8	-214.0	11.91	11.91	0.00
11,233.1	15.67	178.57	11,181.0	292.9	-710.8	-211.9	11.91	11.91	0.00
TBSG Carb B									
11,250.0	17.68	178.57	11,197.2	288.1	-710.7	-207.1	11.91	11.91	0.00
11,275.0	20.66	178.57	11,220.8	279.9	-710.5	-199.0	11.91	11.91	0.00
11,300.0	23.63	178.57	11,243.9	270.4	-710.2	-189.7	11.91	11.91	0.00
11,322.4	26.30	178.57	11,264.2	261.0	-710.0	-180.3	11.91	11.91	0.00



Planning Report



Database:	PEDM	Local Co-ordinate Reference:	Well #591H
Company:	Midland	TVD Reference:	KB = 26' @ 3366.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 26' @ 3366.0usft
Site:	Quijote 2 State Com	North Reference:	Grid
Well:	#591H	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)
11,325.0	26.61	178.57	11,266.6	259.8	-710.0	-179.2	12.00	12.00	-0.20
11,350.0	29.61	178.52	11,288.6	248.1	-709.7	-167.5	12.00	12.00	-0.18
11,375.0	32.61	178.49	11,310.0	235.1	-709.3	-154.7	12.00	12.00	-0.15
11,400.0	35.61	178.45	11,330.7	221.1	-709.0	-140.8	12.00	12.00	-0.13
11,425.0	38.61	178.43	11,350.6	206.0	-708.5	-125.9	12.00	12.00	-0.11
11,450.0	41.61	178.40	11,369.7	189.9	-708.1	-109.9	12.00	12.00	-0.10
11,475.0	44.61	178.38	11,388.0	172.9	-707.6	-93.0	12.00	12.00	-0.09
11,500.0	47.61	178.36	11,405.3	154.9	-707.1	-75.2	12.00	12.00	-0.08
11,525.0	50.61	178.35	11,421.7	136.0	-706.6	-56.5	12.00	12.00	-0.07
11,550.0	53.61	178.33	11,437.0	116.3	-706.0	-36.9	12.00	12.00	-0.06
11,575.0	56.61	178.31	11,451.3	95.8	-705.4	-16.6	12.00	12.00	-0.06
11,600.0	59.61	178.30	11,464.5	74.5	-704.8	4.4	12.00	12.00	-0.06
11,625.0	62.61	178.29	11,476.6	52.7	-704.1	26.1	12.00	12.00	-0.05
11,650.0	65.61	178.28	11,487.5	30.2	-703.4	48.3	12.00	12.00	-0.05
11,675.0	68.61	178.26	11,497.3	7.2	-702.7	71.1	12.00	12.00	-0.05
11,700.0	71.61	178.25	11,505.8	-16.3	-702.0	94.4	12.00	12.00	-0.04
11,704.0	72.09	178.25	11,507.0	-20.1	-701.9	98.2	12.00	12.00	-0.04
TBSG Carb LWR TOW									
11,725.0	74.61	178.24	11,513.0	-40.2	-701.3	118.1	12.00	12.00	-0.04
11,750.0	77.61	178.23	11,519.0	-64.5	-700.6	142.1	12.00	12.00	-0.04
11,775.0	80.61	178.22	11,523.7	-89.0	-699.8	166.4	12.00	12.00	-0.04
11,800.0	83.61	178.21	11,527.2	-113.8	-699.0	190.9	12.00	12.00	-0.04
11,825.0	86.61	178.20	11,529.3	-138.7	-698.2	215.6	12.00	12.00	-0.04
11,850.0	89.61	178.19	11,530.1	-163.6	-697.5	240.3	12.00	12.00	-0.04
11,853.3	90.01	178.19	11,530.1	-167.0	-697.4	243.6	12.00	12.00	-0.04
11,900.0	90.01	178.19	11,530.1	-213.6	-695.9	289.8	0.00	0.00	0.00
12,000.0	90.01	178.19	11,530.1	-313.6	-692.7	388.7	0.00	0.00	0.00
12,100.0	90.01	178.19	11,530.1	-413.5	-689.6	487.7	0.00	0.00	0.00
12,200.0	90.01	178.19	11,530.0	-513.5	-686.4	586.7	0.00	0.00	0.00
12,300.0	90.01	178.19	11,530.0	-613.4	-683.2	685.7	0.00	0.00	0.00
12,400.0	90.01	178.19	11,530.0	-713.4	-680.1	784.7	0.00	0.00	0.00
12,500.0	90.01	178.19	11,530.0	-813.3	-676.9	883.6	0.00	0.00	0.00
12,600.0	90.01	178.19	11,530.0	-913.3	-673.8	982.6	0.00	0.00	0.00
12,700.0	90.01	178.19	11,529.9	-1,013.2	-670.6	1,081.6	0.00	0.00	0.00
12,800.0	90.01	178.19	11,529.9	-1,113.2	-667.4	1,180.6	0.00	0.00	0.00
12,900.0	90.01	178.19	11,529.9	-1,213.1	-664.3	1,279.5	0.00	0.00	0.00
13,000.0	90.01	178.19	11,529.9	-1,313.1	-661.1	1,378.5	0.00	0.00	0.00
13,100.0	90.01	178.19	11,529.8	-1,413.0	-658.0	1,477.5	0.00	0.00	0.00
13,200.0	90.01	178.19	11,529.8	-1,513.0	-654.8	1,576.5	0.00	0.00	0.00
13,300.0	90.01	178.19	11,529.8	-1,612.9	-651.6	1,675.4	0.00	0.00	0.00
13,400.0	90.01	178.19	11,529.8	-1,712.9	-648.5	1,774.4	0.00	0.00	0.00
13,500.0	90.01	178.19	11,529.7	-1,812.8	-645.3	1,873.4	0.00	0.00	0.00
13,600.0	90.01	178.19	11,529.7	-1,912.8	-642.2	1,972.4	0.00	0.00	0.00
13,700.0	90.01	178.19	11,529.7	-2,012.7	-639.0	2,071.4	0.00	0.00	0.00
13,800.0	90.01	178.19	11,529.7	-2,112.7	-635.8	2,170.3	0.00	0.00	0.00
13,900.0	90.01	178.19	11,529.6	-2,212.6	-632.7	2,269.3	0.00	0.00	0.00
14,000.0	90.01	178.19	11,529.6	-2,312.6	-629.5	2,368.3	0.00	0.00	0.00
14,100.0	90.01	178.19	11,529.6	-2,412.5	-626.4	2,467.3	0.00	0.00	0.00
14,200.0	90.01	178.19	11,529.6	-2,512.5	-623.2	2,566.2	0.00	0.00	0.00
14,300.0	90.01	178.19	11,529.5	-2,612.4	-620.0	2,665.2	0.00	0.00	0.00
14,400.0	90.01	178.19	11,529.5	-2,712.4	-616.9	2,764.2	0.00	0.00	0.00
14,500.0	90.01	178.19	11,529.5	-2,812.3	-613.7	2,863.2	0.00	0.00	0.00
14,600.0	90.01	178.19	11,529.5	-2,912.3	-610.6	2,962.1	0.00	0.00	0.00
14,700.0	90.01	178.19	11,529.5	-3,012.2	-607.4	3,061.1	0.00	0.00	0.00



Planning Report



Database:	PEDM	Local Co-ordinate Reference:	Well #591H
Company:	Midland	TVD Reference:	KB = 26' @ 3366.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 26' @ 3366.0usft
Site:	Quijote 2 State Com	North Reference:	Grid
Well:	#591H	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)	
14,800.0	90.01	178.19	11,529.4	-3,112.2	-604.2	3,160.1	0.00	0.00	0.00	
14,900.0	90.01	178.19	11,529.4	-3,212.1	-601.1	3,259.1	0.00	0.00	0.00	
15,000.0	90.01	178.19	11,529.4	-3,312.1	-597.9	3,358.0	0.00	0.00	0.00	
15,100.0	90.01	178.19	11,529.4	-3,412.0	-594.8	3,457.0	0.00	0.00	0.00	
15,200.0	90.01	178.19	11,529.3	-3,512.0	-591.6	3,556.0	0.00	0.00	0.00	
15,300.0	90.01	178.19	11,529.3	-3,611.9	-588.4	3,655.0	0.00	0.00	0.00	
15,400.0	90.01	178.19	11,529.3	-3,711.9	-585.3	3,754.0	0.00	0.00	0.00	
15,500.0	90.01	178.19	11,529.3	-3,811.8	-582.1	3,852.9	0.00	0.00	0.00	
15,600.0	90.01	178.19	11,529.2	-3,911.8	-579.0	3,951.9	0.00	0.00	0.00	
15,700.0	90.01	178.19	11,529.2	-4,011.7	-575.8	4,050.9	0.00	0.00	0.00	
15,800.0	90.01	178.19	11,529.2	-4,111.7	-572.6	4,149.9	0.00	0.00	0.00	
15,900.0	90.01	178.19	11,529.2	-4,211.6	-569.5	4,248.8	0.00	0.00	0.00	
16,000.0	90.01	178.19	11,529.1	-4,311.6	-566.3	4,347.8	0.00	0.00	0.00	
16,100.0	90.01	178.19	11,529.1	-4,411.5	-563.2	4,446.8	0.00	0.00	0.00	
16,200.0	90.01	178.19	11,529.1	-4,511.5	-560.0	4,545.8	0.00	0.00	0.00	
16,300.0	90.01	178.19	11,529.1	-4,611.4	-556.8	4,644.7	0.00	0.00	0.00	
16,400.0	90.01	178.19	11,529.0	-4,711.4	-553.7	4,743.7	0.00	0.00	0.00	
16,500.0	90.01	178.19	11,529.0	-4,811.3	-550.5	4,842.7	0.00	0.00	0.00	
16,579.7	90.01	178.19	11,529.0	-4,891.0	-548.0	4,921.6	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(Quijote 2 State Com) - plan misses target center by 94.0usft at 7241.5usft MD (7191.0 TVD, 310.8 N, -711.2 E) - Rectangle (sides W50.0 H60.0 D0.0)	0.00	178.21	7,191.0	309.0	-805.2	393,370.00	755,243.80	32.0795715°N	103.6426967°W	
FTP (Quijote 2 State Com) - plan misses target center by 163.0usft at 11500.7usft MD (11405.8 TVD, 154.4 N, -707.1 E) - Point	0.00	0.00	11,529.0	261.0	-710.0	393,322.00	755,339.00	32.0794379°N	103.6423903°W	
PBHL (Quijote 2 State Com) - plan hits target center - Rectangle (sides W60.0 H0.0 D5,145.0)	90.56	178.21	11,529.0	-4,891.0	-548.0	388,170.00	755,501.00	32.0652734°N	103.6419739°W	



Planning Report



Database:	PEDM	Local Co-ordinate Reference:	Well #591H
Company:	Midland	TVD Reference:	KB = 26' @ 3366.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 26' @ 3366.0usft
Site:	Quijote 2 State Com	North Reference:	Grid
Well:	#591H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.2		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
753.0	753.0	RSLR				
836.0	836.0	TMSK_ANHY				
1,043.0	1,043.0	Salt Top				
4,518.8	4,490.0	Salt Base				
4,746.8	4,716.0	LMAR				
4,772.0	4,741.0	BLCN				
5,761.7	5,722.0	CYCN				
7,241.5	7,191.0	Brushy Canyon Por. MKR				
7,341.5	7,291.0	BYCN				
9,001.5	8,951.0	Bone Spring Lime				
9,037.1	8,986.6	Leonard A		-0.44		
9,587.1	9,536.6	Leonard B		-0.44		
9,922.1	9,871.6	First Bone Spring Sand		-0.44		
10,175.1	10,124.6	SBSG Shale		-0.44		
10,525.1	10,474.6	SBSG Sand		-0.44		
10,934.1	10,883.6	SBSG E Sand		-0.44		
11,011.5	10,961.0	Third Bone Spring Carb				
11,233.1	11,181.0	TBSG Carb B				
11,704.0	11,507.0	TBSG Carb LWR TOW				

Lea County, NM (NAD 83 NME)

Quijote 2 State Com #591H

Plan #0.2

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: 6.12°

Magnetic Field
Strength: 47330.9nT
Dip Angle: 59.73°
Date: 2/18/2022
Model: IGRF2020

To convert a Magnetic Direction to a Grid Direction, Add 6.12°
To convert a Magnetic Direction to a True Direction, Add 6.49° East
To convert a True Direction to a Grid Direction, Subtract 0.37°

WELL DETAILS: #591H

KB = 26' @ 3366.0usft 3340.0

Northing	Easting	Latitude	Longitude
393061.00	756049.00	32.0787079°N	103.6401035°W

SECTION DETAILS

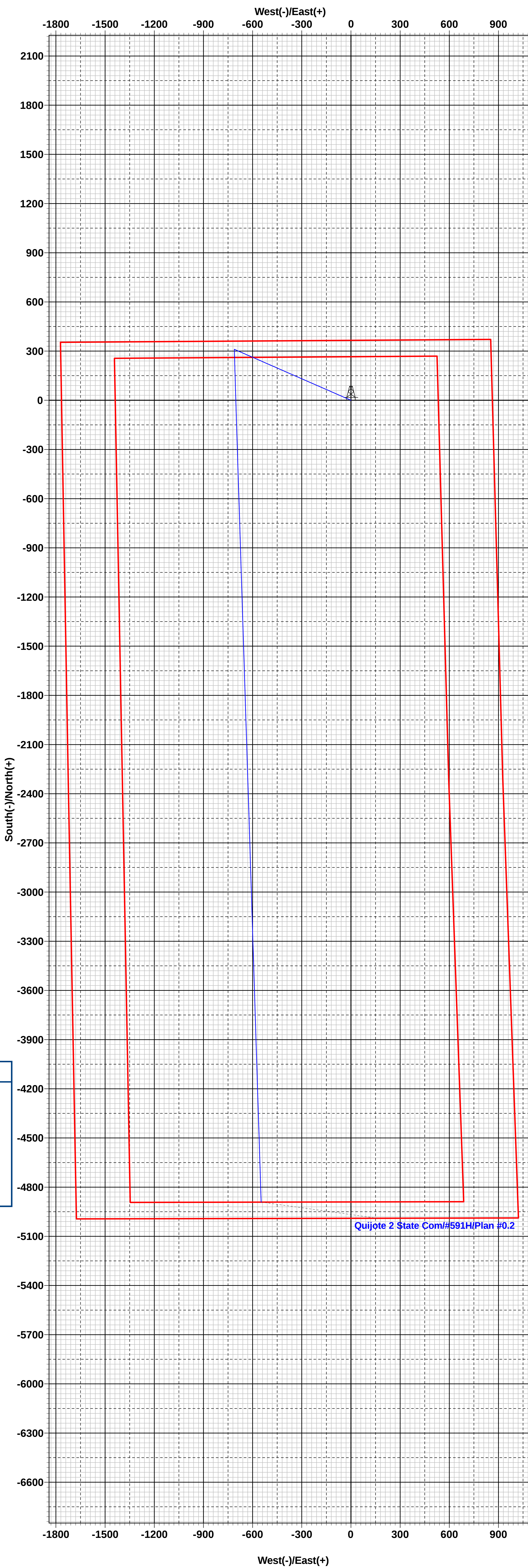
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	1000.0	0.00	0.00	1000.0	0.0	0.0	0.00	0.00	0.0	

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
Brushy Top(Quijote 2 State Com #591H)	7191.0	309.0	-805.2	393370.00	755243.80
FTP (Quijote 2 State Com #591H)	11529.0	261.0	-710.0	393322.00	755339.00
PBHL (Quijote 2 State Com #591H)	11529.0	-4891.0	-548.0	388170.00	755501.00



Quijote 2 State Com/#591H/Plan #0.2

Vertical Section at 186.39°

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

Action 98143

CONDITIONS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 98143
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	None	4/13/2022