

Submit a 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. 30-025-53215
5. Indicate Type of Lease STATE ☒ FEE ☐
6. State Oil & Gas Lease No. 39643
7. Lease Name or Unit Agreement Name Dragon 36 State
8. Well Number 222H
9. OGRID Number 7377
10. Pool name or Wildcat 51020 Red Hills; Lower Bone Spring

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>N</u> : <u>1185</u> feet from the <u>South</u> line and <u>2439</u> feet from the West line Section <u>36</u> <u>24S</u> Township <u>33E</u> Range <u>NMNM</u> Lea <u>County</u>	
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3481' GR	

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: ☐

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 name from Dragon 36 State 222H to Dragon 36 State 601H.

Change BHL from T-24-S, R-33-E, Sec 36, 100' FNL, 470' FWL, LEA Co., NM,
 to T-24-S, R-33-E, Sec 36, 100' FNL, 1850' FWL, LEA Co., N.M.

Change target formation to Third Bone Spring Carbonate.

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 _____ Regulatory Advisor _____ DATE 10/7/2024

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):

C-102 Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	Revised July 9, 2024	
		Submittal Type:	☐ Initial Submittal
			☒ Amended Report
		☐ As Drilled	

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-53215	Pool Code 51020	Pool Name Red Hills; Lower Bone Spring
Property Code 39643	Property Name DRAGON 36 STATE	Well Number 601H
OGRID No. 7377	Operator Name EOG RESOURCES, INC.	Ground Level Elevation 3481'
Surface Owner: ☒ State ☐ Fee ☐ Tribal ☐ Federal		Mineral Owner: ☒ State ☐ Fee ☐ Tribal ☐ Federal

Surface Location

UL or lot no. N	Section 36	Township 24-S	Range 33-E	Lot Idn -	Feet from the N/S 1185' S	Feet from the E/W 2439' W	Latitude N 32.1700643	Longitude W 103.5266955	County LEA
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Bottom Hole Location

UL or lot no. C	Section 36	Township 24-S	Range 33-E	Lot Idn -	Feet from the N/S 100' N	Feet from the E/W 1850' W	Latitude N 32.1810466	Longitude W 103.5286016	County LEA
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Dedicated Acres 320.00	Infill or Defining Well INFILL	Defining Well API 30-025-49282	Overlapping Spacing Unit (Y/N) N	Consolidated Code
Order Numbers LEASE WELL			Well Setbacks are under Common Ownership: ☐ Yes ☐ No	

Kick Off Point (KOP)

UL or lot no. N	Section 36	Township 24-S	Range 33-E	Lot Idn -	Feet from the N/S 50' S	Feet from the E/W 1850' W	Latitude N 32.1669480	Longitude W 103.5286001	County LEA
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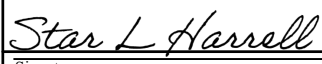
First Take Point (FTP)

UL or lot no. N	Section 36	Township 24-S	Range 33-E	Lot Idn -	Feet from the N/S 100' S	Feet from the E/W 1850' W	Latitude N 32.1670854	Longitude W 103.5286001	County LEA
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Last Take Point (LTP)

UL or lot no. C	Section 36	Township 24-S	Range 33-E	Lot Idn -	Feet from the N/S 100' N	Feet from the E/W 1850' W	Latitude N 32.1810466	Longitude W 103.5286016	County LEA
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Unitized Area or Area of Uniform Intrest	Spacing Unity Type ☒ Horizontal ☐ Vertical	Ground Floor Elevation 3506'
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OPERATOR CERTIFICATION <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief; and, if the well is a vertical or directional well, 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 a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i> <i>If this well is a horizontal well, I further certify that this organization has received The consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.</i>  10/7/24 Signature Date Star L Harrell Print Name star_harrell@eogresources.com E-mail Address		SURVEYORS CERTIFICATION <i>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 and correct to the best of my belief.</i>  10/3/2024 3:28:58 PM Signature and Seal of Professional Surveyor Date Certificate Number Date of Survey 10/02/2024	
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C-102 Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	Revised July 9, 2024	
		Submittal Type:	☐ Initial Submittal
			☒ Amended Report
Property Name and Well Number		DRAGON 36 STATE 601H	

SURFACE LOCATION (SHL)
NEW MEXICO EAST
NAD 1983
 $X=790927$ $Y=426540$
LAT.: N 32.1700643
LONG.: W 103.5266955
NAD 1927
 $X=749741$ $Y=426482$
LAT.: N 32.1699400
LONG.: W 103.5262219
1185' FSL 2439' FWL

KICK OFF POINT (KOP)
NEW MEXICO EAST
NAD 1983
 $X=790346$ $Y=425402$
LAT.: N 32.1669480
LONG.: W 103.5286001
NAD 1927
 $X=749160$ $Y=425343$
LAT.: N 32.1668236
LONG.: W 103.5281266
50' FSL 1850' FWL

LMP/
BHL

LEASE WELL

HZ SPACING UNIT

STATE NM LG-4235

UMP

SHL

KOP

$X=788456.14$
 $Y=430621.16$

$X=791095.97$
 $Y=430634.73$

$X=788476.06$
 $Y=427981.19$

$X=788496.13$
 $Y=425340.46$

$X=791137.85$
 $Y=425356.52$

AZ = 359.57°, 5079.1'

AZ = 207.04°
1277.8'
202'

100'

100'

1850'

790'

330'

330'

2439'

1850'

1850'

100'

50'

100'

50'

1185'

792'

792'

T-24-S T-25-S R-33-E R-34-E

26 35 25 30 36 31 35 36 2 1 6

UPPER MOST PERF. (UMP)

LOWER MOST PERF. (LMP) BOTTOM HOLE LOCATION (BHL)

NEW MEXICO EAST
NAD 1983
 $X=790345$ $Y=425452$
LAT.: N 32.1670854
LONG.: W 103.5286001
NAD 1927
 $X=749160$ $Y=425393$
LAT.: N 32.1669611
LONG.: W 103.5281266
100' FSL 1850' FWL

NEW MEXICO EAST
NAD 1983
 $X=790307$ $Y=430531$
LAT.: N 32.1810466
LONG.: W 103.5286016
NAD 1927
 $X=749122$ $Y=430472$
LAT.: N 32.1809223
LONG.: W 103.5281272
100' FNL 1850' FWL

SURVEYORS 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 and correct to the best of my belief.

10/02/2024

Date of Survey

Signature and Seal of Professional Surveyor:

RAMON DOMINGUEZ
NEW MEXICO
24508
PROFESSIONAL SURVEYOR

Released to Imaging: 10/7/2024 3:02:14 PM

10/3/2024 3:28:58 PM



Midland

Lea County, NM (NAD 83 NME)

Dragon 36 State

#601H

OH

Plan: Plan #0.2

Standard Planning Report

07 October, 2024



Planning Report

Database:	PEDMB	Local Co-ordinate Reference:	Well #601H
Company:	Midland	TVD Reference:	kb = 26' @ 3507.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	kb = 26' @ 3507.0usft
Site:	Dragon 36 State	North Reference:	Grid
Well:	#601H	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	#601H					
Well Position	+N/-S	0.0 usft	Northing:	426,540.00 usft	Latitude:	32° 10' 12.233 N
	+E/-W	0.0 usft	Easting:	790,927.00 usft	Longitude:	103° 31' 36.099 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,481.0 usft
Grid Convergence:	0.43 °					

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	6/19/2024	6.17	59.75	47,151.94995746

Design	Plan #0.2				
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	351.15	

Plan Survey Tool Program	Date	10/7/2024			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.0	17,331.2 Plan #0.2 (OH)	EOG MWD+IFR1		
			MWD + IFR1		



Planning Report

Database:	PEDMB	Local Co-ordinate Reference:	Well #601H
Company:	Midland	TVD Reference:	kb = 26' @ 3507.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	kb = 26' @ 3507.0usft
Site:	Dragon 36 State	North Reference:	Grid
Well:	#601H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.2		

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	
1,650.0	0.00	0.00	1,650.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,310.6	13.21	207.05	2,304.8	-67.5	-34.5	2.00	2.00	0.00	207.05	
7,237.5	13.21	207.05	7,101.2	-1,070.5	-546.5	0.00	0.00	0.00	0.00	
7,898.1	0.00	0.01	7,756.0	-1,138.0	-581.0	2.00	-2.00	0.00	180.00	
11,939.6	0.00	0.01	11,797.5	-1,138.0	-581.0	0.00	0.00	0.00	0.00	KOP(Dragon 36 State
12,160.0	26.46	358.85	12,010.2	-1,088.0	-582.0	12.00	12.00	-0.52	358.85	FTP(Dragon 36 State
12,689.5	90.00	359.59	12,274.9	-660.6	-586.8	12.00	12.00	0.14	0.82	
17,331.2	90.00	359.59	12,275.0	3,981.0	-620.0	0.00	0.00	0.00	0.00	PBHL(Dragon 36 Stat



Planning Report

Database:	PEDMB	Local Co-ordinate Reference:	Well #601H
Company:	Midland	TVD Reference:	kb = 26' @ 3507.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	kb = 26' @ 3507.0usft
Site:	Dragon 36 State	North Reference:	Grid
Well:	#601H	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	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
1,650.0	0.00	0.00	1,650.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	1.00	207.05	1,700.0	-0.4	-0.2	-0.4	2.00	2.00	0.00
1,800.0	3.00	207.05	1,799.9	-3.5	-1.8	-3.2	2.00	2.00	0.00
1,900.0	5.00	207.05	1,899.7	-9.7	-5.0	-8.8	2.00	2.00	0.00
2,000.0	7.00	207.05	1,999.1	-19.0	-9.7	-17.3	2.00	2.00	0.00
2,100.0	9.00	207.05	2,098.2	-31.4	-16.0	-28.6	2.00	2.00	0.00
2,200.0	11.00	207.05	2,196.6	-46.9	-23.9	-42.6	2.00	2.00	0.00
2,300.0	13.00	207.05	2,294.4	-65.4	-33.4	-59.5	2.00	2.00	0.00
2,310.6	13.21	207.05	2,304.8	-67.5	-34.5	-61.4	2.00	2.00	0.00
2,400.0	13.21	207.05	2,391.8	-85.7	-43.8	-78.0	0.00	0.00	0.00
2,500.0	13.21	207.05	2,489.1	-106.1	-54.2	-96.5	0.00	0.00	0.00
2,600.0	13.21	207.05	2,586.5	-126.4	-64.6	-115.0	0.00	0.00	0.00
2,700.0	13.21	207.05	2,683.9	-146.8	-74.9	-133.5	0.00	0.00	0.00
2,800.0	13.21	207.05	2,781.2	-167.2	-85.3	-152.0	0.00	0.00	0.00
2,900.0	13.21	207.05	2,878.6	-187.5	-95.7	-170.5	0.00	0.00	0.00
3,000.0	13.21	207.05	2,975.9	-207.9	-106.1	-189.1	0.00	0.00	0.00
3,100.0	13.21	207.05	3,073.3	-228.2	-116.5	-207.6	0.00	0.00	0.00
3,200.0	13.21	207.05	3,170.6	-248.6	-126.9	-226.1	0.00	0.00	0.00
3,300.0	13.21	207.05	3,268.0	-268.9	-137.3	-244.6	0.00	0.00	0.00
3,400.0	13.21	207.05	3,365.3	-289.3	-147.7	-263.1	0.00	0.00	0.00
3,500.0	13.21	207.05	3,462.7	-309.7	-158.1	-281.6	0.00	0.00	0.00
3,600.0	13.21	207.05	3,560.0	-330.0	-168.5	-300.2	0.00	0.00	0.00
3,700.0	13.21	207.05	3,657.4	-350.4	-178.9	-318.7	0.00	0.00	0.00
3,800.0	13.21	207.05	3,754.7	-370.7	-189.3	-337.2	0.00	0.00	0.00
3,900.0	13.21	207.05	3,852.1	-391.1	-199.7	-355.7	0.00	0.00	0.00
4,000.0	13.21	207.05	3,949.4	-411.4	-210.1	-374.2	0.00	0.00	0.00
4,100.0	13.21	207.05	4,046.8	-431.8	-220.4	-392.7	0.00	0.00	0.00
4,200.0	13.21	207.05	4,144.1	-452.1	-230.8	-411.2	0.00	0.00	0.00
4,300.0	13.21	207.05	4,241.5	-472.5	-241.2	-429.8	0.00	0.00	0.00
4,400.0	13.21	207.05	4,338.9	-492.9	-251.6	-448.3	0.00	0.00	0.00
4,500.0	13.21	207.05	4,436.2	-513.2	-262.0	-466.8	0.00	0.00	0.00
4,600.0	13.21	207.05	4,533.6	-533.6	-272.4	-485.3	0.00	0.00	0.00
4,700.0	13.21	207.05	4,630.9	-553.9	-282.8	-503.8	0.00	0.00	0.00
4,800.0	13.21	207.05	4,728.3	-574.3	-293.2	-522.3	0.00	0.00	0.00
4,900.0	13.21	207.05	4,825.6	-594.6	-303.6	-540.8	0.00	0.00	0.00
5,000.0	13.21	207.05	4,923.0	-615.0	-314.0	-559.4	0.00	0.00	0.00
5,100.0	13.21	207.05	5,020.3	-635.4	-324.4	-577.9	0.00	0.00	0.00



Planning Report

Database:	PEDMB	Local Co-ordinate Reference:	Well #601H
Company:	Midland	TVD Reference:	kb = 26' @ 3507.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	kb = 26' @ 3507.0usft
Site:	Dragon 36 State	North Reference:	Grid
Well:	#601H	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)
5,200.0	13.21	207.05	5,117.7	-655.7	-334.8	-596.4	0.00	0.00	0.00
5,300.0	13.21	207.05	5,215.0	-676.1	-345.2	-614.9	0.00	0.00	0.00
5,400.0	13.21	207.05	5,312.4	-696.4	-355.6	-633.4	0.00	0.00	0.00
5,500.0	13.21	207.05	5,409.7	-716.8	-365.9	-651.9	0.00	0.00	0.00
5,600.0	13.21	207.05	5,507.1	-737.1	-376.3	-670.4	0.00	0.00	0.00
5,700.0	13.21	207.05	5,604.4	-757.5	-386.7	-689.0	0.00	0.00	0.00
5,800.0	13.21	207.05	5,701.8	-777.8	-397.1	-707.5	0.00	0.00	0.00
5,900.0	13.21	207.05	5,799.2	-798.2	-407.5	-726.0	0.00	0.00	0.00
6,000.0	13.21	207.05	5,896.5	-818.6	-417.9	-744.5	0.00	0.00	0.00
6,100.0	13.21	207.05	5,993.9	-838.9	-428.3	-763.0	0.00	0.00	0.00
6,200.0	13.21	207.05	6,091.2	-859.3	-438.7	-781.5	0.00	0.00	0.00
6,300.0	13.21	207.05	6,188.6	-879.6	-449.1	-800.0	0.00	0.00	0.00
6,400.0	13.21	207.05	6,285.9	-900.0	-459.5	-818.6	0.00	0.00	0.00
6,500.0	13.21	207.05	6,383.3	-920.3	-469.9	-837.1	0.00	0.00	0.00
6,600.0	13.21	207.05	6,480.6	-940.7	-480.3	-855.6	0.00	0.00	0.00
6,700.0	13.21	207.05	6,578.0	-961.1	-490.7	-874.1	0.00	0.00	0.00
6,800.0	13.21	207.05	6,675.3	-981.4	-501.1	-892.6	0.00	0.00	0.00
6,900.0	13.21	207.05	6,772.7	-1,001.8	-511.4	-911.1	0.00	0.00	0.00
7,000.0	13.21	207.05	6,870.0	-1,022.1	-521.8	-929.6	0.00	0.00	0.00
7,100.0	13.21	207.05	6,967.4	-1,042.5	-532.2	-948.2	0.00	0.00	0.00
7,200.0	13.21	207.05	7,064.7	-1,062.8	-542.6	-966.7	0.00	0.00	0.00
7,237.5	13.21	207.05	7,101.2	-1,070.5	-546.5	-973.6	0.00	0.00	0.00
7,300.0	11.96	207.05	7,162.2	-1,082.6	-552.7	-984.6	2.00	-2.00	0.00
7,400.0	9.96	207.05	7,260.4	-1,099.5	-561.4	-1,000.1	2.00	-2.00	0.00
7,500.0	7.96	207.05	7,359.2	-1,113.4	-568.4	-1,012.7	2.00	-2.00	0.00
7,600.0	5.96	207.05	7,458.4	-1,124.2	-574.0	-1,022.5	2.00	-2.00	0.00
7,700.0	3.96	207.05	7,558.1	-1,131.9	-577.9	-1,029.5	2.00	-2.00	0.00
7,800.0	1.96	207.05	7,657.9	-1,136.5	-580.2	-1,033.7	2.00	-2.00	0.00
7,898.1	0.00	0.01	7,756.0	-1,138.0	-581.0	-1,035.0	2.00	-2.00	0.00
7,900.0	0.00	0.00	7,757.9	-1,138.0	-581.0	-1,035.0	0.00	0.00	0.00
8,000.0	0.00	0.00	7,857.9	-1,138.0	-581.0	-1,035.0	0.00	0.00	0.00
8,100.0	0.00	0.00	7,957.9	-1,138.0	-581.0	-1,035.0	0.00	0.00	0.00
8,200.0	0.00	0.00	8,057.9	-1,138.0	-581.0	-1,035.0	0.00	0.00	0.00
8,300.0	0.00	0.00	8,157.9	-1,138.0	-581.0	-1,035.0	0.00	0.00	0.00
8,400.0	0.00	0.00	8,257.9	-1,138.0	-581.0	-1,035.0	0.00	0.00	0.00
8,500.0	0.00	0.00	8,357.9	-1,138.0	-581.0	-1,035.0	0.00	0.00	0.00
8,600.0	0.00	0.00	8,457.9	-1,138.0	-581.0	-1,035.0	0.00	0.00	0.00
8,700.0	0.00	0.00	8,557.9	-1,138.0	-581.0	-1,035.0	0.00	0.00	0.00
8,800.0	0.00	0.00	8,657.9	-1,138.0	-581.0	-1,035.0	0.00	0.00	0.00
8,900.0	0.00	0.00	8,757.9	-1,138.0	-581.0	-1,035.0	0.00	0.00	0.00
9,000.0	0.00	0.00	8,857.9	-1,138.0	-581.0	-1,035.0	0.00	0.00	0.00
9,100.0	0.00	0.00	8,957.9	-1,138.0	-581.0	-1,035.0	0.00	0.00	0.00
9,200.0	0.00	0.00	9,057.9	-1,138.0	-581.0	-1,035.0	0.00	0.00	0.00
9,300.0	0.00	0.00	9,157.9	-1,138.0	-581.0	-1,035.0	0.00	0.00	0.00
9,400.0	0.00	0.00	9,257.9	-1,138.0	-581.0	-1,035.0	0.00	0.00	0.00
9,500.0	0.00	0.00	9,357.9	-1,138.0	-581.0	-1,035.0	0.00	0.00	0.00
9,600.0	0.00	0.00	9,457.9	-1,138.0	-581.0	-1,035.0	0.00	0.00	0.00
9,700.0	0.00	0.00	9,557.9	-1,138.0	-581.0	-1,035.0	0.00	0.00	0.00
9,800.0	0.00	0.00	9,657.9	-1,138.0	-581.0	-1,035.0	0.00	0.00	0.00
9,900.0	0.00	0.00	9,757.9	-1,138.0	-581.0	-1,035.0	0.00	0.00	0.00
10,000.0	0.00	0.00	9,857.9	-1,138.0	-581.0	-1,035.0	0.00	0.00	0.00
10,100.0	0.00	0.00	9,957.9	-1,138.0	-581.0	-1,035.0	0.00	0.00	0.00
10,200.0	0.00	0.00	10,057.9	-1,138.0	-581.0	-1,035.0	0.00	0.00	0.00
10,300.0	0.00	0.00	10,157.9	-1,138.0	-581.0	-1,035.0	0.00	0.00	0.00



Planning Report

Database:	PEDMB	Local Co-ordinate Reference:	Well #601H
Company:	Midland	TVD Reference:	kb = 26' @ 3507.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	kb = 26' @ 3507.0usft
Site:	Dragon 36 State	North Reference:	Grid
Well:	#601H	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)
10,400.0	0.00	0.00	10,257.9	-1,138.0	-581.0	-1,035.0	0.00	0.00	0.00
10,500.0	0.00	0.00	10,357.9	-1,138.0	-581.0	-1,035.0	0.00	0.00	0.00
10,600.0	0.00	0.00	10,457.9	-1,138.0	-581.0	-1,035.0	0.00	0.00	0.00
10,700.0	0.00	0.00	10,557.9	-1,138.0	-581.0	-1,035.0	0.00	0.00	0.00
10,800.0	0.00	0.00	10,657.9	-1,138.0	-581.0	-1,035.0	0.00	0.00	0.00
10,900.0	0.00	0.00	10,757.9	-1,138.0	-581.0	-1,035.0	0.00	0.00	0.00
11,000.0	0.00	0.00	10,857.9	-1,138.0	-581.0	-1,035.0	0.00	0.00	0.00
11,100.0	0.00	0.00	10,957.9	-1,138.0	-581.0	-1,035.0	0.00	0.00	0.00
11,200.0	0.00	0.00	11,057.9	-1,138.0	-581.0	-1,035.0	0.00	0.00	0.00
11,300.0	0.00	0.00	11,157.9	-1,138.0	-581.0	-1,035.0	0.00	0.00	0.00
11,400.0	0.00	0.00	11,257.9	-1,138.0	-581.0	-1,035.0	0.00	0.00	0.00
11,500.0	0.00	0.00	11,357.9	-1,138.0	-581.0	-1,035.0	0.00	0.00	0.00
11,600.0	0.00	0.00	11,457.9	-1,138.0	-581.0	-1,035.0	0.00	0.00	0.00
11,700.0	0.00	0.00	11,557.9	-1,138.0	-581.0	-1,035.0	0.00	0.00	0.00
11,800.0	0.00	0.00	11,657.9	-1,138.0	-581.0	-1,035.0	0.00	0.00	0.00
11,900.0	0.00	0.00	11,757.9	-1,138.0	-581.0	-1,035.0	0.00	0.00	0.00
11,939.6	0.00	0.01	11,797.5	-1,138.0	-581.0	-1,035.0	0.00	0.00	0.00
11,950.0	1.25	358.85	11,807.9	-1,137.9	-581.0	-1,034.9	12.00	12.00	0.00
11,975.0	4.25	358.85	11,832.9	-1,136.7	-581.0	-1,033.7	12.00	12.00	0.00
12,000.0	7.25	358.85	11,857.7	-1,134.2	-581.1	-1,031.3	12.00	12.00	0.00
12,025.0	10.25	358.85	11,882.5	-1,130.4	-581.2	-1,027.5	12.00	12.00	0.00
12,050.0	13.25	358.85	11,906.9	-1,125.3	-581.3	-1,022.4	12.00	12.00	0.00
12,075.0	16.25	358.85	11,931.1	-1,118.9	-581.4	-1,016.1	12.00	12.00	0.00
12,100.0	19.25	358.85	11,954.9	-1,111.3	-581.5	-1,008.6	12.00	12.00	0.00
12,125.0	22.26	358.85	11,978.3	-1,102.4	-581.7	-999.8	12.00	12.00	0.00
12,150.0	25.26	358.85	12,001.2	-1,092.4	-581.9	-989.8	12.00	12.00	0.00
12,160.0	26.46	358.85	12,010.2	-1,088.0	-582.0	-985.5	12.00	12.00	0.00
12,175.0	28.26	358.91	12,023.5	-1,081.1	-582.1	-978.7	12.00	12.00	0.36
12,200.0	31.26	358.99	12,045.2	-1,068.7	-582.4	-966.4	12.00	12.00	0.31
12,225.0	34.26	359.05	12,066.2	-1,055.2	-582.6	-953.0	12.00	12.00	0.26
12,250.0	37.26	359.11	12,086.5	-1,040.6	-582.8	-938.5	12.00	12.00	0.22
12,275.0	40.26	359.16	12,106.0	-1,024.9	-583.1	-923.0	12.00	12.00	0.20
12,300.0	43.26	359.20	12,124.6	-1,008.3	-583.3	-906.5	12.00	12.00	0.17
12,325.0	46.26	359.24	12,142.4	-990.7	-583.5	-889.1	12.00	12.00	0.15
12,350.0	49.26	359.27	12,159.2	-972.2	-583.8	-870.8	12.00	12.00	0.14
12,375.0	52.26	359.31	12,175.0	-952.8	-584.0	-851.6	12.00	12.00	0.13
12,400.0	55.26	359.34	12,189.8	-932.7	-584.3	-831.7	12.00	12.00	0.12
12,425.0	58.26	359.36	12,203.5	-911.8	-584.5	-811.0	12.00	12.00	0.11
12,450.0	61.26	359.39	12,216.1	-890.2	-584.7	-789.6	12.00	12.00	0.10
12,475.0	64.25	359.41	12,227.5	-868.0	-585.0	-767.6	12.00	12.00	0.10
12,500.0	67.25	359.44	12,237.8	-845.2	-585.2	-745.1	12.00	12.00	0.09
12,525.0	70.25	359.46	12,246.8	-821.9	-585.4	-722.0	12.00	12.00	0.09
12,550.0	73.25	359.48	12,254.7	-798.1	-585.6	-698.5	12.00	12.00	0.09
12,575.0	76.25	359.50	12,261.2	-774.0	-585.9	-674.6	12.00	12.00	0.08
12,600.0	79.25	359.52	12,266.5	-749.6	-586.1	-650.5	12.00	12.00	0.08
12,625.0	82.25	359.54	12,270.6	-724.9	-586.3	-626.1	12.00	12.00	0.08
12,650.0	85.25	359.56	12,273.3	-700.1	-586.5	-601.5	12.00	12.00	0.08
12,675.0	88.25	359.58	12,274.7	-675.1	-586.6	-576.8	12.00	12.00	0.08
12,689.5	90.00	359.59	12,274.9	-660.6	-586.8	-562.4	12.00	12.00	0.08
12,700.0	90.00	359.59	12,274.9	-650.1	-586.8	-552.1	0.00	0.00	0.00
12,800.0	90.00	359.59	12,274.9	-550.1	-587.5	-453.2	0.00	0.00	0.00
12,900.0	90.00	359.59	12,274.9	-450.1	-588.3	-354.2	0.00	0.00	0.00
13,000.0	90.00	359.59	12,274.9	-350.1	-589.0	-255.3	0.00	0.00	0.00
13,100.0	90.00	359.59	12,274.9	-250.1	-589.7	-156.4	0.00	0.00	0.00



Planning Report

Database:	PEDMB	Local Co-ordinate Reference:	Well #601H
Company:	Midland	TVD Reference:	kb = 26' @ 3507.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	kb = 26' @ 3507.0usft
Site:	Dragon 36 State	North Reference:	Grid
Well:	#601H	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)
13,200.0	90.00	359.59	12,274.9	-150.1	-590.4	-57.5	0.00	0.00	0.00
13,300.0	90.00	359.59	12,274.9	-50.1	-591.1	41.4	0.00	0.00	0.00
13,400.0	90.00	359.59	12,274.9	49.9	-591.8	140.3	0.00	0.00	0.00
13,500.0	90.00	359.59	12,274.9	149.9	-592.6	239.3	0.00	0.00	0.00
13,600.0	90.00	359.59	12,274.9	249.9	-593.3	338.2	0.00	0.00	0.00
13,700.0	90.00	359.59	12,274.9	349.9	-594.0	437.1	0.00	0.00	0.00
13,800.0	90.00	359.59	12,274.9	449.9	-594.7	536.0	0.00	0.00	0.00
13,900.0	90.00	359.59	12,274.9	549.8	-595.4	634.9	0.00	0.00	0.00
14,000.0	90.00	359.59	12,274.9	649.8	-596.1	733.8	0.00	0.00	0.00
14,100.0	90.00	359.59	12,274.9	749.8	-596.9	832.8	0.00	0.00	0.00
14,200.0	90.00	359.59	12,274.9	849.8	-597.6	931.7	0.00	0.00	0.00
14,300.0	90.00	359.59	12,274.9	949.8	-598.3	1,030.6	0.00	0.00	0.00
14,400.0	90.00	359.59	12,274.9	1,049.8	-599.0	1,129.5	0.00	0.00	0.00
14,500.0	90.00	359.59	12,274.9	1,149.8	-599.7	1,228.4	0.00	0.00	0.00
14,600.0	90.00	359.59	12,275.0	1,249.8	-600.4	1,327.3	0.00	0.00	0.00
14,700.0	90.00	359.59	12,275.0	1,349.8	-601.2	1,426.3	0.00	0.00	0.00
14,800.0	90.00	359.59	12,275.0	1,449.8	-601.9	1,525.2	0.00	0.00	0.00
14,900.0	90.00	359.59	12,275.0	1,549.8	-602.6	1,624.1	0.00	0.00	0.00
15,000.0	90.00	359.59	12,275.0	1,649.8	-603.3	1,723.0	0.00	0.00	0.00
15,100.0	90.00	359.59	12,275.0	1,749.8	-604.0	1,821.9	0.00	0.00	0.00
15,200.0	90.00	359.59	12,275.0	1,849.8	-604.7	1,920.8	0.00	0.00	0.00
15,300.0	90.00	359.59	12,275.0	1,949.8	-605.5	2,019.8	0.00	0.00	0.00
15,400.0	90.00	359.59	12,275.0	2,049.8	-606.2	2,118.7	0.00	0.00	0.00
15,500.0	90.00	359.59	12,275.0	2,149.8	-606.9	2,217.6	0.00	0.00	0.00
15,600.0	90.00	359.59	12,275.0	2,249.8	-607.6	2,316.5	0.00	0.00	0.00
15,700.0	90.00	359.59	12,275.0	2,349.8	-608.3	2,415.4	0.00	0.00	0.00
15,800.0	90.00	359.59	12,275.0	2,449.8	-609.0	2,514.3	0.00	0.00	0.00
15,900.0	90.00	359.59	12,275.0	2,549.8	-609.7	2,613.3	0.00	0.00	0.00
16,000.0	90.00	359.59	12,275.0	2,649.8	-610.5	2,712.2	0.00	0.00	0.00
16,100.0	90.00	359.59	12,275.0	2,749.8	-611.2	2,811.1	0.00	0.00	0.00
16,200.0	90.00	359.59	12,275.0	2,849.8	-611.9	2,910.0	0.00	0.00	0.00
16,300.0	90.00	359.59	12,275.0	2,949.8	-612.6	3,008.9	0.00	0.00	0.00
16,400.0	90.00	359.59	12,275.0	3,049.8	-613.3	3,107.8	0.00	0.00	0.00
16,500.0	90.00	359.59	12,275.0	3,149.8	-614.0	3,206.8	0.00	0.00	0.00
16,600.0	90.00	359.59	12,275.0	3,249.8	-614.8	3,305.7	0.00	0.00	0.00
16,700.0	90.00	359.59	12,275.0	3,349.8	-615.5	3,404.6	0.00	0.00	0.00
16,800.0	90.00	359.59	12,275.0	3,449.8	-616.2	3,503.5	0.00	0.00	0.00
16,900.0	90.00	359.59	12,275.0	3,549.8	-616.9	3,602.4	0.00	0.00	0.00
17,000.0	90.00	359.59	12,275.0	3,649.8	-617.6	3,701.3	0.00	0.00	0.00
17,100.0	90.00	359.59	12,275.0	3,749.8	-618.3	3,800.3	0.00	0.00	0.00
17,200.0	90.00	359.59	12,275.0	3,849.8	-619.1	3,899.2	0.00	0.00	0.00
17,300.0	90.00	359.59	12,275.0	3,949.8	-619.8	3,998.1	0.00	0.00	0.00
17,331.2	90.00	359.59	12,275.0	3,981.0	-620.0	4,029.0	0.00	0.00	0.00



Planning Report

Database:	PEDMB	Local Co-ordinate Reference:	Well #601H
Company:	Midland	TVD Reference:	kb = 26' @ 3507.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	kb = 26' @ 3507.0usft
Site:	Dragon 36 State	North Reference:	Grid
Well:	#601H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.2		

Design Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
KOP(Dragon 36 State #1 - plan hits target center - Polygon	0.00	0.00	11,797.5	-1,138.0	-581.0	425,402.00	790,346.00	32° 10' 1.016 N	103° 31' 42.957 W
Point 1			11,797.5	50.0	-40.0	425,452.00	790,306.00		
Point 2			11,797.5	50.0	40.0	425,452.00	790,386.00		
Point 3			11,797.5	-30.0	40.0	425,372.00	790,386.00		
Point 4			11,797.5	-30.0	-40.0	425,372.00	790,306.00		
FTP(Dragon 36 State #2 - plan hits target center - Point	0.00	0.00	12,010.2	-1,088.0	-582.0	425,452.00	790,345.00	32° 10' 1.511 N	103° 31' 42.964 W
PBHL(Dragon 36 State #3 - plan hits target center - Rectangle (sides W60.0 H0.0 D5,069.1)	90.00	359.57	12,275.0	3,981.0	-620.0	430,521.00	790,307.00	32° 10' 51.672 N	103° 31' 42.965 W
TGT#2(Dragon 36 State #4 - plan misses target center by 8.0usft at 16053.2usft MD (12275.0 TVD, 2703.0 N, -610.8 E) - Point	0.00	0.00	12,283.0	2,703.0	-610.3	429,243.00	790,316.73	32° 10' 39.025 N	103° 31' 42.963 W
TGT#1(Dragon 36 State #5 - plan misses target center by 28.1usft at 14567.2usft MD (12274.9 TVD, 1217.0 N, -600.2 E) - Point	0.00	0.00	12,303.0	1,217.0	-598.9	427,757.00	790,328.06	32° 10' 24.320 N	103° 31' 42.961 W

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,198.0	1,198.0	RUSTLER				
1,286.0	1,286.0	TAMARISK ANHYDRITE				
1,693.0	1,693.0	SALT TOP				
5,020.1	4,942.5	BASE OF SALT				
5,295.9	5,211.0	LAMAR LIMESTONE				
5,311.8	5,226.5	BELL CANYON				
6,393.9	6,280.0	CHERRY CANYON				
7,898.1	7,756.0	BRUSHYPOROSITY				
9,427.1	9,285.0	BONE SPRING LIME				
9,474.1	9,332.0	LEONARD A SHALE				
9,808.6	9,666.5	LEONARD B SHALE				
10,346.6	10,204.5	1ST BONE SPRING SAND				
10,678.6	10,536.5	2ND BONE SPRING SHALE				
10,999.1	10,857.0	2ND BONE SPRING SAND				
11,498.4	11,356.3	3RD BONE SPRING CARBONATE				
12,059.9	11,916.5	3RD BONE SPRING SAND				





Dragon 36 State #601H
LEA County, New Mexico
Proposed Wellbore
Design A

1185' FSL
2439' FWL
Section 36
T-24-S, R-33-E

KB: 3506'
GL: 3481'

API: 30-025-53215

Bit Size: 12-1/4"
9-5/8", 36#, J-55, LTC, 0' - 1,300'

Bit Size: 8-3/4"
7-5/8", 29.7#, ICYP-110, MO FXL, 0' - 11,454'

TOC: 10,606' MD, 10,454' TVD

Bit Size: 6-3/4"
5-1/2", 17#, HCP-110, LTC
@ 0' - 17,331'

KOP: 11,940' MD, 11,798' TVD
EOC: 12,690' MD, 12,275' TVD

Lateral: 17,331' MD, 12,275' TVD
BH Location: 100' FNL & 1850' FWL
Sec. 36
T-24-S R-33-E

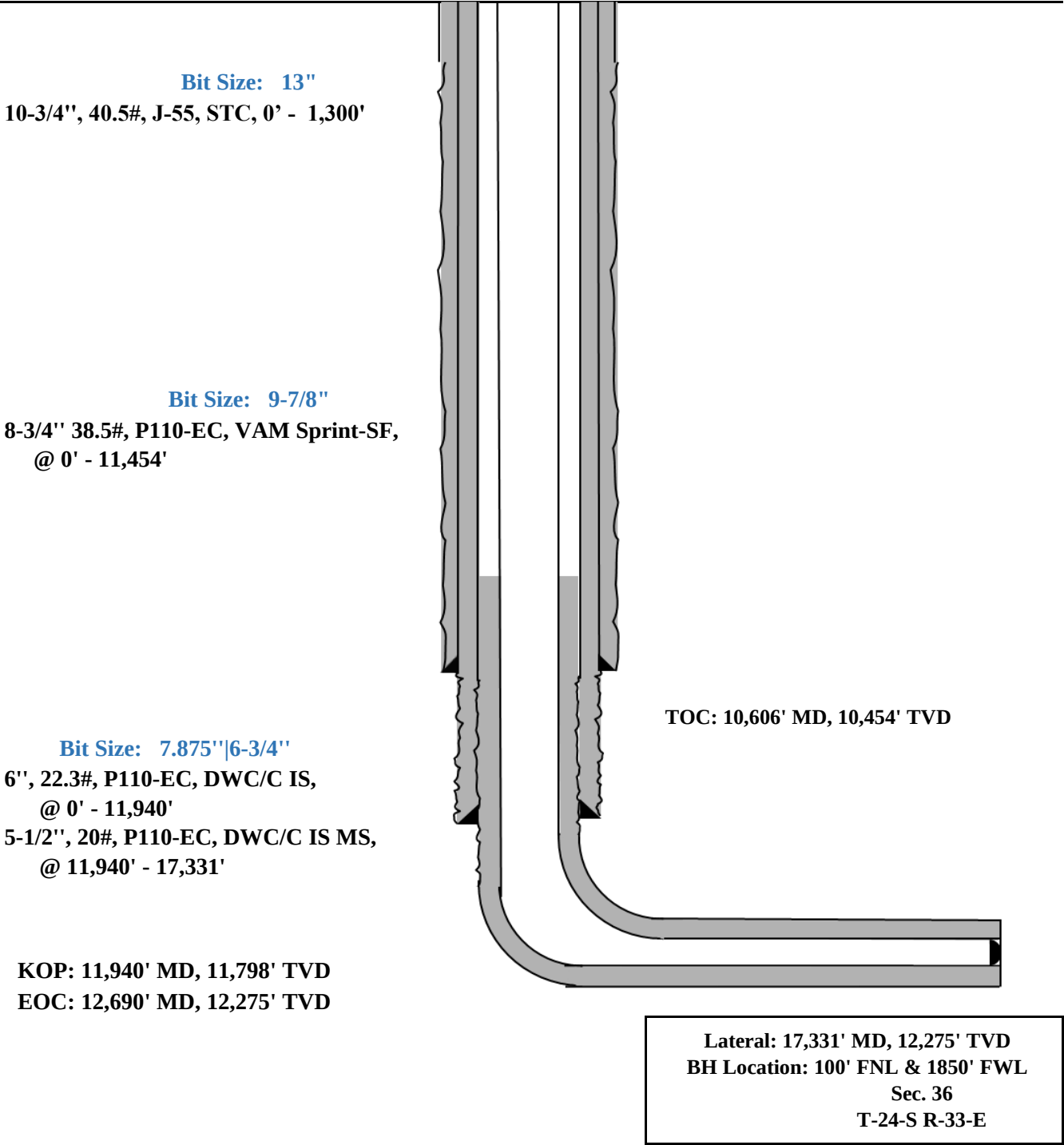


Dragon 36 State #601H
LEA County, New Mexico
Proposed Wellbore
Design B

1185' FSL
2439' FWL
Section 36
T-24-S, R-33-E

KB: 3506'
GL: 3481'

API: 30-025-53215





Dragon 36 State #601H

Permit Information:

Well Name: Dragon 36 State #601H

Location:

SHL: 1185' FSL & 2439' FWL, Section 36, T-24-S, R-33-E, LEA Co., N.M.

BHL: 100' FNL & 1850' FWL, Section 36, T-24-S, R-33-E, LEA Co., N.M.

Design A

Casing Program:

Hole Size	Interval MD		Interval TVD		Csg OD	Weight	Grade	Conn
	From (ft)	To (ft)	From (ft)	To (ft)				
12-1/4"	0	1,300	0	1,300	9-5/8"	36#	J-55	LTC
8-3/4"	0	11,606	0	11,454	7-5/8"	29.7#	ICYP-110	MO FXL
6-3/4"	0	17,331	0	12,275	5-1/2"	17#	HCP-110	LTC

Cement Program:

Depth	No. Sacks	Wt. ppg	Yld Ft3/sk	Slurry Description
1,300'	350	13.5	1.73	Class C + 4.0% Bentonite + 0.6% CD-32 + 0.5% CaCl ₂ + 0.25 lb/sk Cello-Flake (TOC @ Surface)
	80	14.8	1.34	Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate
11,450'	440	14.2	1.11	1st Stage (Tail): Class C + 5% Salt (TOC @ 7,772')
	1330	14.8	1.5	2nd Stage (Bradenhead squeeze): Class C + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (TOC @ surface)
17,331'	570	13.2	1.31	Class H + 0.1% C-20 + 0.05% CSA-1000 + 0.20% C-49 + 0.40% C-17 (TOC @ 10,950')

Mud Program:

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 – 1,300'	Fresh - Gel	8.6-8.8	28-34	N/c
1,300' – 11,450'	Brine	10.0-10.2	28-34	N/c
11,450' – 11,940'	Oil Base	8.7-9.4	58-68	N/c - 6
11,940' – 17,331' Lateral	Oil Base	10.0-14.0	58-68	4 - 6



Dragon 36 State #601H

Design B**CASING PROGRAM**

Hole Size	Interval MD		Interval TVD		Csg OD	Weight	Grade	Conn
	From (ft)	To (ft)	From (ft)	To (ft)				
13"	0	1,300	0	1,300	10-3/4"	40.5#	J-55	STC
9-7/8"	0	11,606	0	11,454	8-3/4"	38.5#	P110-EC	VAM Sprint-SF
7-7/8"	0	11,940	0	11,798	6"	22.3#	P110-EC	DWC/C IS
6.75"	11,940	17,331	11,798	12,275	5-1/2"	20#	P110-EC	DWC/C IS MS

**For highlighted rows above, variance is requested to run entire string of either or casing string above.

Cementing Program:

Depth	No. Sacks	Wt. ppg	Yld Ft3/sk	Slurry Description
1,300'	3620	13.5	1.73	Class C + 4.0% Bentonite + 0.6% CD-32 + 0.5% CaCl ₂ + 0.25 lb/sk Cello-Flake (TOC @ Surface)
	70	14.8	1.34	Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate
11,610'	560	14.2	1.11	1st Stage (Tail): Class C + 5% Salt (TOC @ 7,772')
	1790	14.8	1.5	2nd Stage (Bradenhead squeeze): Class C + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (TOC @ surface)
17,331'	890	13.2	1.31	Class H + 0.1% C-20 + 0.05% CSA-1000 + 0.20% C-49 + 0.40% C-17 (TOC @ 11,440')

As a contingency, EOG requests to pump a two stage cement job on the intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brushy Canyon (7,972') and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface. If necessary, a top out consisting of 1,330 sacks of Class C cement + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (1.5 yld, 14.8 ppg) will be executed.

Mud Program:

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 – 1,300'	Fresh - Gel	8.6-8.8	28-34	N/c
1,300' – 5,177'	Brine	10.0-10.2	28-34	N/c
5,177' – 11,450'	Oil Base	8.7-9.4	58-68	N/c - 6
11,450' – 17,331' Lateral	Oil Base	10.0-14.0	58-68	4 - 6



Dragon 36 State 601H

TUBING REQUIREMENTS

EOG respectively requests an exception to the following NMOCD rule:

- 19.15.16.10 Casing AND TUBING REQUIREMENTS:
J (3): "The operator shall set tubing as near the bottom as practical and tubing perforations shall not be more than 250 feet above top of pay zone."

With horizontal flowing and gas lifted wells an end of tubing depth placed at or slightly above KOP is a conservative way to ensure the tubing stays clean from debris, plugging, and allows for fewer well interventions post offset completion. The deeper the tubulars are run into the curve, the higher the probability is that the tubing will become stuck in sand and or well debris as the well produces over time. An additional consideration for EOT placement during artificial lift installations is avoiding the high dog leg severity and inclinations found in the curve section of the wellbore to help improve reliability and performance. Dog leg severity and inclinations tend not to hamper gas lifted or flowing wells, but they do effect other forms of artificial lift like rod pump or ESP (electric submersible pump). Keeping the EOT above KOP is an industry best practice for those respective forms of artificial lift.

EOG requests a variance to set the intermediate casing shoe in the Bone Spring formation or the Wolfcamp formation, depending on depletion in the area and well conditions. EOG will monitor the well and ensure the well is static before casing operations begin.

**Dragon 36 State #601H****Hydrogen Sulfide Plan Summary**

A. All personnel shall receive proper H₂S training in accordance with Onshore Order III.C.3.a.

B. Briefing Area: two perpendicular areas will be designated by signs and readily accessible.

C. Required Emergency Equipment:

■ Well control equipment

- a. Flare line 150' from wellhead to be ignited by flare gun.
- b. Choke manifold with a remotely operated choke.
- c. Mud/gas separator

■ Protective equipment for essential personnel.

Breathing apparatus:

- a. Rescue Packs (SCBA) — 1 unit shall be placed at each breathing area, 2 shall be stored in the safety trailer.
- b. Work/Escapes packs — 4 packs shall be stored on the rig floor with sufficient air hose not to restrict work activity.
- c. Emergency Escape Packs — 4 packs shall be stored in the doghouse for emergency evacuation.

Auxiliary Rescue Equipment:

- a. Stretcher
- b. Two OSHA full body harness
- c. 100 ft 5/8 inch OSHA approved rope
- d. 1-20# class ABC fire extinguisher

■ H₂S detection and monitoring equipment:

The stationary detector with three sensors will be placed in the upper dog house if equipped, set to visually alarm @ 10 ppm and audible @ 14 ppm. Calibrate a minimum of every 30 days or as needed. The sensors will be placed in the following places: Rig floor / Bell nipple / End of flow line or where well bore fluid is being discharged.

(Gas sample tubes will be stored in the safety trailer)

■ Visual warning systems.

- a. One color code condition sign will be placed at the entrance to the site reflecting the possible conditions at the site.
- b. A colored condition flag will be on display, reflecting the current condition at the site at the time.
- c. Two wind socks will be placed in strategic locations, visible from all angles.



Dragon 36 State #601H

■ **Mud program:**

The mud program has been designed to minimize the volume of H₂S circulated to surface. The operator will have the necessary mud products to minimize hazards while drilling in H₂S bearing zones.

■ **Metallurgy:**

All drill strings, casings, tubing, wellhead, blowout preventer, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H₂S service.

■ **Communication:**

Communication will be via cell phones and land lines where available.



Dragon 36 State #601H
Emergency Assistance Telephone List

PUBLIC SAFETY:		911 or
Lea County Sheriff's Department		(575) 396-3611
Rod Coffman		
Fire Department:		
Carlsbad		(575) 885-3125
Artesia		(575) 746-5050
Hospitals:		
Carlsbad		(575) 887-4121
Artesia		(575) 748-3333
Hobbs		(575) 392-1979
Dept. of Public Safety/Carlsbad		(575) 748-9718
Highway Department		(575) 885-3281
New Mexico Oil Conservation		(575) 476-3440
NMOCD Inspection Group - South		(575) 626-0830
U.S. Dept. of Labor		(575) 887-1174
EOG Resources, Inc.		
EOG / Midland	Office	(432) 686-3600
Company Drilling Consultants:		
David Dominique	Cell	(985) 518-5839
Mike Vann	Cell	(817) 980-5507
Drilling Engineer		
Esteban Del Valle	Cell	(432) 269-7063
Daniel Moose	Cell	(432) 312-2803
Drilling Manager		
Aj Dach	Office	(432) 686-3751
	Cell	(817) 480-1167
Drilling Superintendent		
Jason Townsend	Office	(432) 848-9209
	Cell	(210) 776-5131
H&P Drilling		
H&P Drilling	Office	(432) 563-5757
H&P 651 Drilling Rig	Rig	(903) 509-7131
Tool Pusher:		
Johnathan Craig	Cell	(817) 760-6374
Brad Garrett		
Safety:		
Brian Chandler (HSE Manager)	Office	(432) 686-3695
	Cell	(817) 239-0251

**Dragon 36 State 601H (FKA 222H) API #: 30-025-53215 Variances**

EOG respectfully requests the below variances to be applied to the above well:

- Variance is requested to waive the centralizer requirements for the intermediate casing in the intermediate hole. An expansion additive will be utilized, in the cement slurry, for the entire length of the intermediate interval to maximize cement bond and zonal isolation.
- Variance is also requested to waive the centralizer requirements for the production casing in the production hole. An expansion additive will be utilized, in the cement slurry, for the entire length of the production interval to maximize cement bond and zonal isolation.
- EOG requests a variance to set the intermediate casing shoe in the Bone Spring formation or the Wolfcamp formation, depending on depletion in the area and well conditions. EOG will monitor the well and ensure the well is static before casing operations begin.
- Variance is requested to use a co-flex line between the BOP and choke manifold (instead of using a 4" OD steel line).
- Variance is requested to use a 5,000 psi annular BOP with the 10,000 psi BOP stack.
- EOG Resources requests the option to contract a Surface Rig to drill, set surface casing, and Cement on the subject well. After WOC 8 hours or 500 psi compressive strength (whichever is greater), the Surface Rig will move off so the wellhead can be installed. A welder will cut the casing to the proper height and weld on the wellhead (both "A" and "B" sections). The weld will be tested to 1,500 psi. All valves will be closed and a wellhead cap will be installed (diagram attached). If the timing between rigs is such that EOG Resources would not be able to preset the surface, the Primary Rig will MIRU and drill the well in its entirety per the APD.

EOG requests the additional variance(s) in the attached document(s):

- EOG BLM Variance 2a - Intermediate Bradenhead Cement
- EOG BLM Variance 3a_b - BOP Break-test and Offline Intermediate Cement



Intermediate Bradenhead Cement:

EOG requests variance from minimum standards to pump a two stage cement job on the intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brushy Canyon and the second stage performed as 1000 sack bradenhead squeeze with planned cement from the Brushy Canyon to surface. If necessary, a top out consisting of Class C cement + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (2.30 yld, 12.91 ppg) will be executed as a contingency. Top of cement will be verified by Echo-meter.

EOG will include the Echo-meter verified fluid top and the volume of displacement fluid above the cement slurry in the annulus in all post-drill sundries on wells utilizing this cement program.

EOG will report to the BLM the volume of fluid (limited to 5 bbls) used to flush intermediate casing valves following backside cementing procedures.



Wolfcamp Intermediate Casing Setpoint:

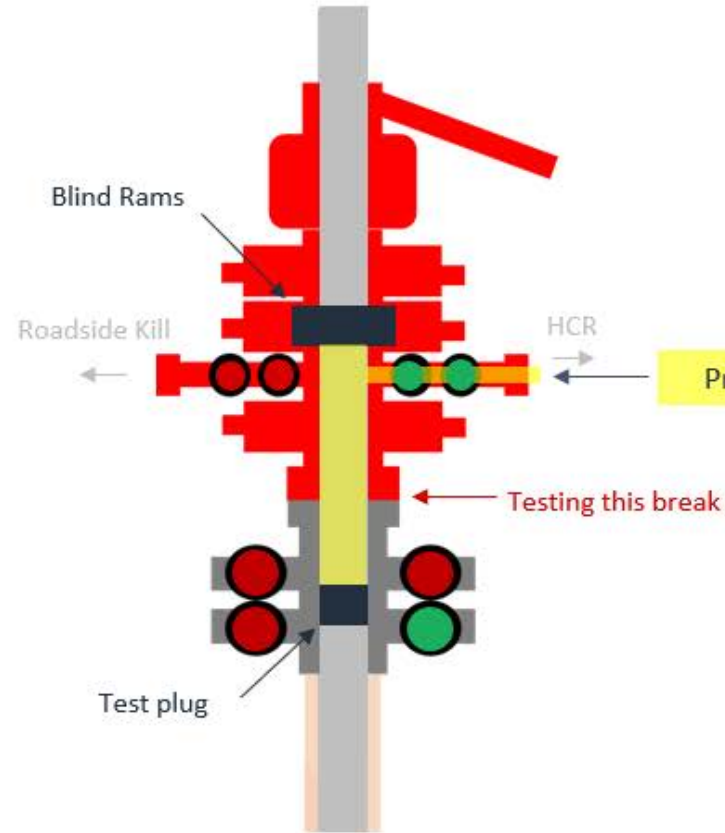
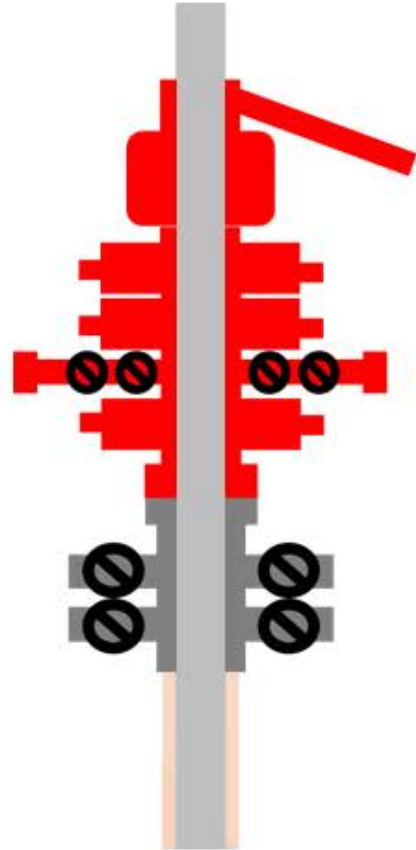
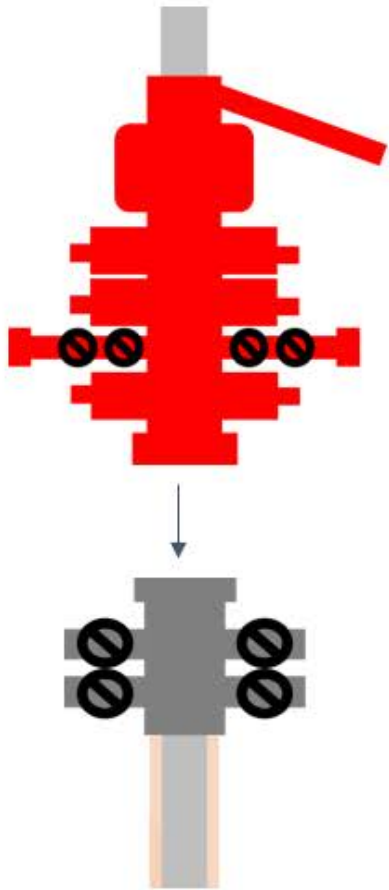
EOG Resources Inc. (EOG) requests a variance to set the intermediate casing shoe in the Bone Spring formation OR the Wolfcamp formation, depending on depletion in the area and well conditions. EOG will monitor the well and ensure the well is static before casing operations begin.

**Break-test BOP & Offline Cementing:**

EOG Resources Inc. (EOG) respectfully requests a variance from the minimum standards for well control equipment testing of ECFR Title 43 Part 3172.6(b)(9)(iv) to allow a testing schedule of the blow out preventer (BOP) and blow out prevention equipment (BOPE) along with Batch Drilling & Offline cement operations to include the following:

- Full BOPE test at first installation on the pad.
- Full BOPE test every 30 days.
- This test will be conducted for 5M rated hole intervals only.
- Each rig requesting the break-test variance is capable of picking up the BOP without damaging components using winches, following API Standard 53, Well Control Equipment Systems for Drilling Wells (Fifth edition, December 2018, Annex C. Table C.4) which recognizes break testing as an acceptable practice.
- Function tests will be performed on the following BOP elements:
 - Annular → during each full BOPE test
 - Upper Pipe Rams → On trip ins where FIT required
 - Blind Rams → Every trip
 - Lower Pipe Rams → during each full BOPE test
- Break testing BOP and BOPE coupled with batch drilling operations and option to offline cement and/or remediate (if needed) any surface or intermediate sections, according to attached offline cementing support documentation.
- After the well section is secured, the BOP will be disconnected from the wellhead and walked with the rig to another well on the pad.
- TA cap will also be installed per Wellhead vendor procedure and pressure inside the casing will be monitored via the valve on the TA cap as per standard batch drilling ops.

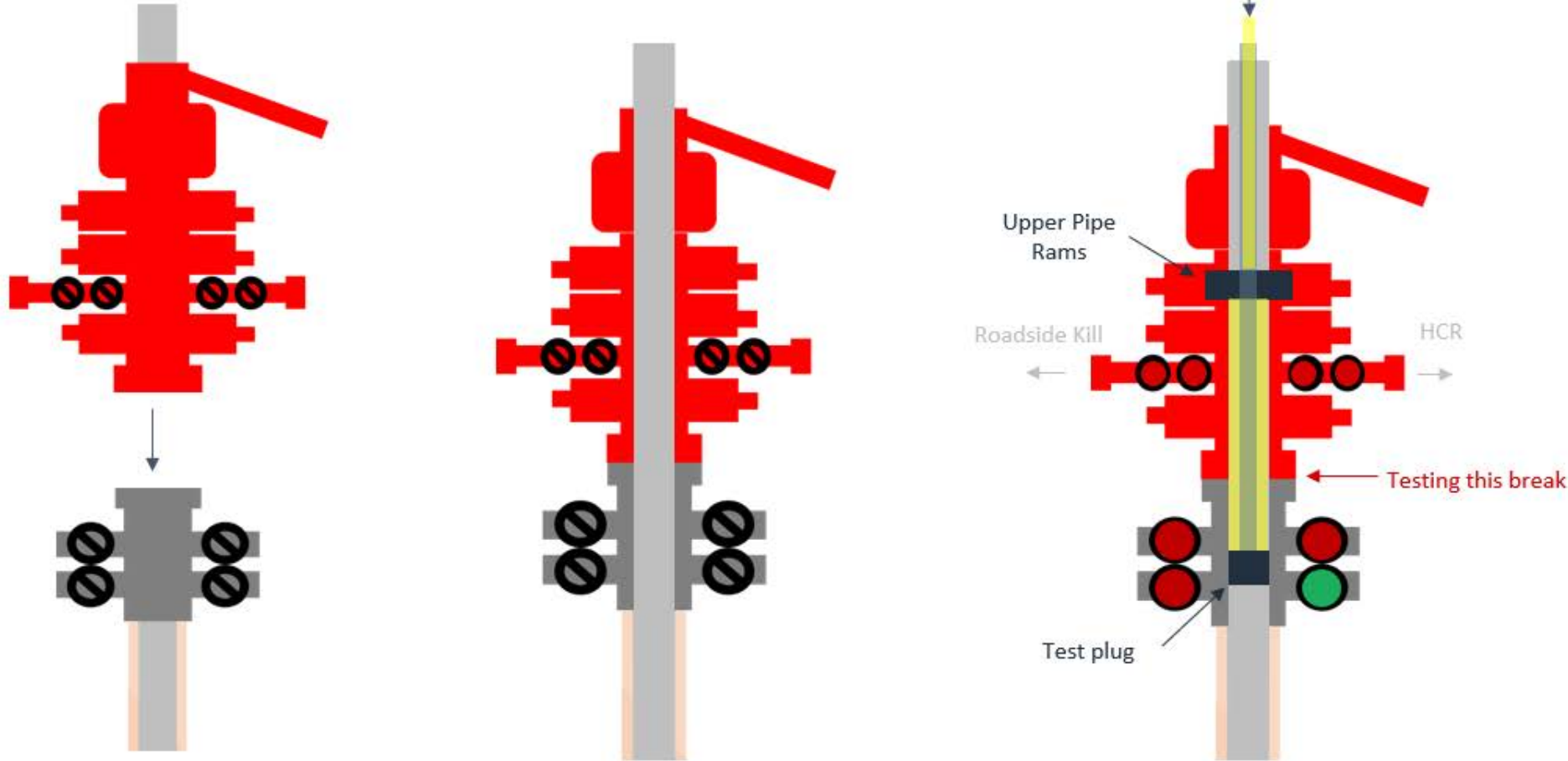
Break Test Diagram (HCR valve)



Steps

1. Set plug in wellhead (lower barrier)
2. Close Blind Rams (upper barrier)
3. Close roadside kill
4. Open HCR (pressure application)
5. Open wellhead valves below test plug to ensure if leak past test plug, pressure won't be applied to wellbore
6. Tie BOP testers high pressure line to main choke manifold crown valve
7. Pressure up to test break
8. Bleed test pressure from BOP testing unit

Break Test Diagram (Test Joint)



Steps

1. Set plug in with test joint wellhead (lower barrier)
2. Close Upper Pipe Rams (upper barrier)
3. Close roadside kill
4. Close HCR
5. Open wellhead valves below test plug to ensure if leak past test plug, pressure won't be applied to wellbore
6. Tie BOP testers high pressure line to top of test joint
7. Pressure up to test break
8. Bleed test pressure from BOP testing unit

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 390495

CONDITIONS

Operator: EOG RESOURCES INC 5509 Champions Drive Midland, TX 79706	OGRID: 7377
	Action Number: 390495
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	ALL PREVIOUS COA's APPLY	10/7/2024