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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

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 ☐		WELL API NO. 30-025-53216 5. Indicate Type of Lease STATE ☒ FEE ☐ 6. State Oil & Gas Lease No.
2. Name of Operator EOG RESOURCES, INC.		7. Lease Name or Unit Agreement Name DRAGON 36 STATE 8. Well Number 304H
3. Address of Operator P.O. Box 2267 Midland, Texas 79702		9. OGRID Number 7377 10. Pool name or Wildcat 97900 - RED HILLS; UPPER BONE SPRING SHALE
4. Well Location Unit Letter <u>N</u> : <u>1112</u> feet from the <u>SOUTH</u> line and <u>2473</u> feet from the <u>WEST</u> line Section <u>36</u> Township <u>24S</u> Range <u>33E</u> NMPM LEA County		
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:		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:

Dragon 36 State 220H (FKA 304H) API #: 30-025-53216

Change name from Dragon 36 State 304H to Dragon 36 State 220H.

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' FSL, 470' FWL, LEA Co., N.M.

Change target formation to Leonard B.

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 Kayla McConnell TITLE REGULATORY SPECIALIST DATE 08/29/2024

Type or print name KAYLA MCCONNELL E-mail address: KAYLA_MCCONNELL@EOGRESOURCES.COM PHONE: 432-265-6804

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 30-025-53216	Pool Code 97900	Pool Name RED HILLS;UPPER BONE SPRING SHALE
Property Code 39643	Property Name DRAGON 36 STATE	Well Number 220H
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.	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
N	36	24-S	33-E	-	1112' S	2473' W	N 32.1698641	W 103.5265886	LEA

Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
M	36	24-S	33-E	-	100' S	470' W	N 32.1670907	W 103.5330597	LEA

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.	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
N	36	24-S	33-E	-	50' S	1610' W	N 32.1669489	W 103.5293757	LEA

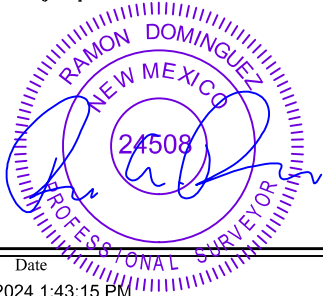
First Take Point (FTP)

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
N	36	24-S	33-E	-	100' S	1610' W	N 32.1670864	W 103.5293757	LEA

Last Take Point (LTP)

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
M	36	24-S	33-E	-	100' S	470' W	N 32.1670907	W 103.5330597	LEA

Unitized Area or Area of Uniform Intrest	Spacing Unity Type ☒ Horizontal ☐ Vertical	Ground Floor Elevation 3506'
--	--	--

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>  08/29/2024		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> 	
Signature KAYLA MCCONNELL		Signature and Seal of Professional Surveyor 8/29/2024 1:43:15 PM	
Print Name KAYLA_MCCONNELL@EOGRESOURCES.COM		Certificate Number	Date of Survey 08/16/2024
E-mail Address			

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	
Property Name and Well Number DRAGON 36 STATE 220H					

SURFACE LOCATION (SHL)

NEW MEXICO EAST
 NAD 1983
 X=790960 Y=426467
 LAT.: N 32.1698641
 LONG.: W 103.5265886
NAD 1927
X=749775 Y=426409
LAT.: N 32.1697398
LONG.: W 103.5261150
 1112' FSL 2473' FWL

KICK OFF POINT (KOP)

NEW MEXICO EAST
 NAD 1983
 X=790106 Y=425400
 LAT.: N 32.1669489
 LONG.: W 103.5293757
NAD 1927
X=748920 Y=425342
LAT.: N 32.1668246
LONG.: W 103.5289022
 50' FSL 1610' FWL

UPPER MOST PERF. (UMP)

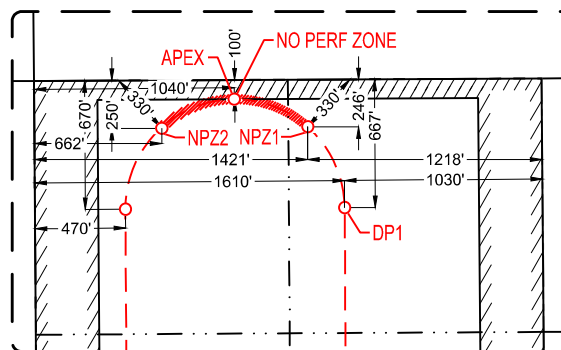
NEW MEXICO EAST
 NAD 1983
 X=790105 Y=425450
 LAT.: N 32.1670864
 LONG.: W 103.5293757
NAD 1927
X=748920 Y=425392
LAT.: N 32.1669620
LONG.: W 103.5289022
 100' FSL 1610' FWL

DEFLECTION POINT (DP1)

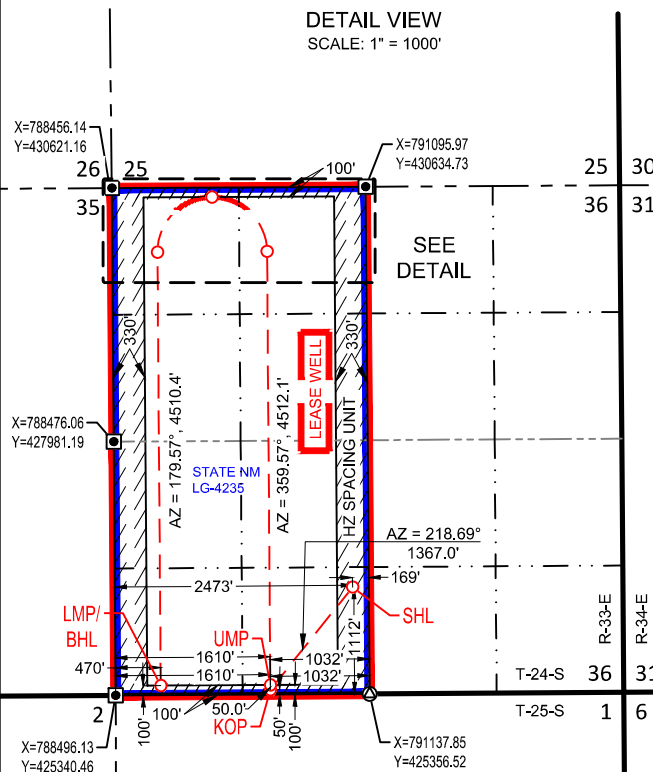
NEW MEXICO EAST
 NAD 1983
 X=790071 Y=429962
 LAT.: N 32.1794889
 LONG.: W 103.5293771
NAD 1927
X=748886 Y=429904
LAT.: N 32.1793647
LONG.: W 103.5289028
 667' FNL 1610' FWL

NON PERF. ZONE (NPZ1)

NEW MEXICO EAST
 NAD 1983
 X=789880 Y=430383
 LAT.: N 32.18006489
 LONG.: W 103.5299861
NAD 1927
X=748695 Y=430324
LAT.: N 32.1805246
LONG.: W 103.5295118
 246' FNL 1421' FWL



DETAIL VIEW
 SCALE: 1" = 1000'

**U-TURN APEX (APEX)**

NEW MEXICO EAST
 NAD 1983
 X=789497 Y=430527
 LAT.: N 32.1810518
 LONG.: W 103.5312196
NAD 1927
X=748312 Y=430468
LAT.: N 32.1809275
LONG.: W 103.5307451
 100' FNL 1040' FWL

NON PERF. ZONE (NPZ2)

NEW MEXICO EAST
 NAD 1983
 X=789118 Y=430379
 LAT.: N 32.1806538
 LONG.: W 103.5324463
NAD 1927
X=747933 Y=430321
LAT.: N 32.1805295
LONG.: W 103.5319718
 250' FNL 662' FWL

DEFLECTION POINT (DP2)

NEW MEXICO EAST
 NAD 1983
 X=788931 Y=429954
 LAT.: N 32.1794886
 LONG.: W 103.5330616
NAD 1927
X=747746 Y=429895
LAT.: N 32.1793643
LONG.: W 103.5325872
 670' FNL 470' FWL

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

NEW MEXICO EAST
 NAD 1983
 X=788965 Y=425443
 LAT.: N 32.1670907
 LONG.: W 103.5330597
NAD 1927
X=747780 Y=425385
LAT.: N 32.1669663
LONG.: W 103.5325861
 100' FSL 470' 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.
 08/16/2024

Date of Survey

Signature and Seal of Professional Surveyor:





EOG Batch Casing

Pad Name: Dragon 36 State

SHL: Section 36, Township 24-S, Range 33-E, LEA County, NM

EOG requests for the below wells to be approved for all designs listed in the Blanket Casing Design ('EOG BLM Variance 5a - Alternate Shallow Casing Designs.pdf' OR 'EOG BLM Variance 5b - Alternate Deep Casing Designs.pdf') document. The MDs and TVDs for all intervals are within the boundary conditions. The max inclination and DLS are also within the boundary conditions. The directional plans for the wells are attached separately.

Well Name	API #	Surface		Intermediate		Production	
		MD	TVD	MD	TVD	MD	TVD
Dragon 36 State #307H (FKA 201H)	30-025-53213	1,320	1,320	5,589	5,281	15,517	10,316
Dragon 36 State #306H (FKA 221H)	30-025-53214	1,320	1,320	5,390	5,281	15,343	10,316
Dragon 36 State #222H	30-025-53215	1,320	1,320	5,812	5,281	15,275	9,899
Dragon 36 State #220H (FKA 304H)	30-025-53216	1,320	1,320	5,450	5,281	20,714	9,899
Dragon 36 State #202H (FKA 305H)	30-025-53217	1,320	1,320	5,685	5,281	15,178	9,899



EOG Batch Casing

Variances

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
- EOG BLM Variance 4a - Salt Section Annular Clearance
- EOG BLM Variance 5a - Alternate Shallow Casing Designs



EOG Batch Casing

GEOLOGIC NAME OF SURFACE FORMATION:

Permian

ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

Rustler	1,200'
Tamarisk Anhydrite	1,288'
Top of Salt	1,693'
Base of Salt	5,181'
Lamar	5,221'
Bell Canyon	5,238'
Cherry Canyon	6,277'
Brushy Canyon	7,793'
Bone Spring Lime	9,245'
Leonard (Avalon) Shale	9,320'
1st Bone Spring Sand	10,210'
2nd Bone Spring Shale	10,530'
2nd Bone Spring Sand	10,818'

ESTIMATED DEPTHS OF ANTICIPATED FRESH WATER, OIL OR GAS:

Upper Permian Sands	0- 400'	Fresh Water
Bell Canyon	5,238'	Oil
Cherry Canyon	6,277'	Oil
Brushy Canyon	7,793'	Oil
Leonard (Avalon) Shale	9,320'	Oil
1st Bone Spring Sand	10,210'	Oil
2nd Bone Spring Shale	10,530'	Oil
2nd Bone Spring Sand	10,818'	Oil

No other Formations are expected to give up oil, gas or fresh water in measurable quantities. Surface fresh water sands will be protected by setting surface casing at 1,320' and circulating cement back to surface.



Midland

Lea County, NM (NAD 83 NME)

Dragon 36 State

#220H

OH

Plan: Plan #0.2

Standard Planning Report

27 August, 2024



Planning Report

Database:	PEDMB	Local Co-ordinate Reference:	Well #220H
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:	#220H	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	#220H					
Well Position	+N/-S	0.0 usft	Northing:	426,467.00 usft	Latitude:	32° 10' 11.509 N
	+E/-W	0.0 usft	Easting:	790,960.00 usft	Longitude:	103° 31' 35.721 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	47,151.84122266

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	359.59	

Plan Survey Tool Program	Date	8/27/2024			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.0	20,713.7	Plan #0.2 (OH)	EOG MWD+IFR1	
			MWD + IFR1		



Planning Report

Database:	PEDMB	Local Co-ordinate Reference:	Well #220H
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:	#220H	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	
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,185.2	13.70	218.67	2,178.7	-63.7	-51.0	2.00	2.00	0.00	218.67	
7,265.4	13.70	218.67	7,114.3	-1,003.3	-803.0	0.00	0.00	0.00	0.00	
7,950.7	0.00	0.00	7,793.0	-1,067.0	-854.0	2.00	-2.00	0.00	180.00	
9,579.2	0.00	0.00	9,421.5	-1,067.0	-854.0	0.00	0.00	0.00	0.00	KOP(Dragon 36 State
9,799.6	26.46	358.85	9,634.2	-1,017.0	-855.0	12.00	12.00	-0.52	358.85	FTP(Dragon 36 State
10,329.1	90.00	359.59	9,898.9	-589.6	-859.8	12.00	12.00	0.14	0.82	
14,413.8	90.00	359.59	9,899.0	3,495.0	-889.0	0.00	0.00	0.00	0.00	Start(Dragon 36 State
15,308.6	90.00	269.50	9,899.0	4,060.0	-1,463.0	10.07	0.00	-10.07	-90.00	MID(Dragon 36 State
16,202.5	90.00	179.79	9,899.0	3,487.0	-2,029.0	10.04	0.00	-10.04	-90.00	END(Dragon 36 State
20,713.7	90.00	179.35	9,899.0	-1,024.0	-1,995.0	0.01	0.00	-0.01	-89.70	PBHL(Dragon 36 Stat



Planning Report

Database:	PEDMB	Local Co-ordinate Reference:	Well #220H
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:	#220H	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	2.00	218.67	1,600.0	-1.4	-1.1	-1.4	2.00	2.00	0.00
1,700.0	4.00	218.67	1,699.8	-5.4	-4.4	-5.4	2.00	2.00	0.00
1,800.0	6.00	218.67	1,799.5	-12.3	-9.8	-12.2	2.00	2.00	0.00
1,900.0	8.00	218.67	1,898.7	-21.8	-17.4	-21.6	2.00	2.00	0.00
2,000.0	10.00	218.67	1,997.5	-34.0	-27.2	-33.8	2.00	2.00	0.00
2,100.0	12.00	218.67	2,095.6	-48.9	-39.1	-48.6	2.00	2.00	0.00
2,185.2	13.70	218.67	2,178.7	-63.7	-51.0	-63.3	2.00	2.00	0.00
2,200.0	13.70	218.67	2,193.1	-66.4	-53.2	-66.0	0.00	0.00	0.00
2,300.0	13.70	218.67	2,290.2	-84.9	-68.0	-84.4	0.00	0.00	0.00
2,400.0	13.70	218.67	2,387.4	-103.4	-82.8	-102.8	0.00	0.00	0.00
2,500.0	13.70	218.67	2,484.5	-121.9	-97.6	-121.2	0.00	0.00	0.00
2,600.0	13.70	218.67	2,581.7	-140.4	-112.4	-139.6	0.00	0.00	0.00
2,700.0	13.70	218.67	2,678.8	-158.9	-127.2	-158.0	0.00	0.00	0.00
2,800.0	13.70	218.67	2,776.0	-177.4	-142.0	-176.4	0.00	0.00	0.00
2,900.0	13.70	218.67	2,873.1	-195.9	-156.8	-194.8	0.00	0.00	0.00
3,000.0	13.70	218.67	2,970.3	-214.4	-171.6	-213.1	0.00	0.00	0.00
3,100.0	13.70	218.67	3,067.4	-232.9	-186.4	-231.5	0.00	0.00	0.00
3,200.0	13.70	218.67	3,164.6	-251.4	-201.2	-249.9	0.00	0.00	0.00
3,300.0	13.70	218.67	3,261.7	-269.9	-216.0	-268.3	0.00	0.00	0.00
3,400.0	13.70	218.67	3,358.9	-288.4	-230.8	-286.7	0.00	0.00	0.00
3,500.0	13.70	218.67	3,456.1	-306.9	-245.6	-305.1	0.00	0.00	0.00
3,600.0	13.70	218.67	3,553.2	-325.4	-260.4	-323.5	0.00	0.00	0.00
3,700.0	13.70	218.67	3,650.4	-343.9	-275.2	-341.9	0.00	0.00	0.00
3,800.0	13.70	218.67	3,747.5	-362.3	-290.0	-360.3	0.00	0.00	0.00
3,900.0	13.70	218.67	3,844.7	-380.8	-304.8	-378.7	0.00	0.00	0.00
4,000.0	13.70	218.67	3,941.8	-399.3	-319.6	-397.0	0.00	0.00	0.00
4,100.0	13.70	218.67	4,039.0	-417.8	-334.4	-415.4	0.00	0.00	0.00
4,200.0	13.70	218.67	4,136.1	-436.3	-349.2	-433.8	0.00	0.00	0.00
4,300.0	13.70	218.67	4,233.3	-454.8	-364.0	-452.2	0.00	0.00	0.00
4,400.0	13.70	218.67	4,330.4	-473.3	-378.8	-470.6	0.00	0.00	0.00
4,500.0	13.70	218.67	4,427.6	-491.8	-393.6	-489.0	0.00	0.00	0.00
4,600.0	13.70	218.67	4,524.7	-510.3	-408.4	-507.4	0.00	0.00	0.00
4,700.0	13.70	218.67	4,621.9	-528.8	-423.3	-525.8	0.00	0.00	0.00
4,800.0	13.70	218.67	4,719.0	-547.3	-438.1	-544.2	0.00	0.00	0.00
4,900.0	13.70	218.67	4,816.2	-565.8	-452.9	-562.6	0.00	0.00	0.00
5,000.0	13.70	218.67	4,913.4	-584.3	-467.7	-580.9	0.00	0.00	0.00
5,100.0	13.70	218.67	5,010.5	-602.8	-482.5	-599.3	0.00	0.00	0.00
5,200.0	13.70	218.67	5,107.7	-621.3	-497.3	-617.7	0.00	0.00	0.00



Planning Report

Database:	PEDMB	Local Co-ordinate Reference:	Well #220H
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:	#220H	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	13.70	218.67	5,204.8	-639.8	-512.1	-636.1	0.00	0.00	0.00
5,400.0	13.70	218.67	5,302.0	-658.3	-526.9	-654.5	0.00	0.00	0.00
5,500.0	13.70	218.67	5,399.1	-676.8	-541.7	-672.9	0.00	0.00	0.00
5,600.0	13.70	218.67	5,496.3	-695.3	-556.5	-691.3	0.00	0.00	0.00
5,700.0	13.70	218.67	5,593.4	-713.8	-571.3	-709.7	0.00	0.00	0.00
5,800.0	13.70	218.67	5,690.6	-732.3	-586.1	-728.1	0.00	0.00	0.00
5,900.0	13.70	218.67	5,787.7	-750.8	-600.9	-746.5	0.00	0.00	0.00
6,000.0	13.70	218.67	5,884.9	-769.3	-615.7	-764.8	0.00	0.00	0.00
6,100.0	13.70	218.67	5,982.0	-787.8	-630.5	-783.2	0.00	0.00	0.00
6,200.0	13.70	218.67	6,079.2	-806.3	-645.3	-801.6	0.00	0.00	0.00
6,300.0	13.70	218.67	6,176.3	-824.8	-660.1	-820.0	0.00	0.00	0.00
6,400.0	13.70	218.67	6,273.5	-843.3	-674.9	-838.4	0.00	0.00	0.00
6,500.0	13.70	218.67	6,370.6	-861.7	-689.7	-856.8	0.00	0.00	0.00
6,600.0	13.70	218.67	6,467.8	-880.2	-704.5	-875.2	0.00	0.00	0.00
6,700.0	13.70	218.67	6,565.0	-898.7	-719.3	-893.6	0.00	0.00	0.00
6,800.0	13.70	218.67	6,662.1	-917.2	-734.1	-912.0	0.00	0.00	0.00
6,900.0	13.70	218.67	6,759.3	-935.7	-748.9	-930.4	0.00	0.00	0.00
7,000.0	13.70	218.67	6,856.4	-954.2	-763.7	-948.7	0.00	0.00	0.00
7,100.0	13.70	218.67	6,953.6	-972.7	-778.5	-967.1	0.00	0.00	0.00
7,200.0	13.70	218.67	7,050.7	-991.2	-793.3	-985.5	0.00	0.00	0.00
7,265.4	13.70	218.67	7,114.3	-1,003.3	-803.0	-997.6	0.00	0.00	0.00
7,300.0	13.01	218.67	7,147.9	-1,009.6	-808.0	-1,003.8	2.00	-2.00	0.00
7,400.0	11.01	218.67	7,245.7	-1,025.8	-821.0	-1,019.9	2.00	-2.00	0.00
7,500.0	9.01	218.67	7,344.2	-1,039.4	-831.9	-1,033.4	2.00	-2.00	0.00
7,600.0	7.01	218.67	7,443.2	-1,050.3	-840.6	-1,044.2	2.00	-2.00	0.00
7,700.0	5.01	218.67	7,542.7	-1,058.4	-847.2	-1,052.4	2.00	-2.00	0.00
7,800.0	3.01	218.67	7,642.4	-1,063.9	-851.5	-1,057.8	2.00	-2.00	0.00
7,900.0	1.01	218.67	7,742.3	-1,066.7	-853.7	-1,060.5	2.00	-2.00	0.00
7,950.7	0.00	0.00	7,793.0	-1,067.0	-854.0	-1,060.9	2.00	-2.00	0.00
8,000.0	0.00	0.00	7,842.3	-1,067.0	-854.0	-1,060.9	0.00	0.00	0.00
8,100.0	0.00	0.00	7,942.3	-1,067.0	-854.0	-1,060.9	0.00	0.00	0.00
8,200.0	0.00	0.00	8,042.3	-1,067.0	-854.0	-1,060.9	0.00	0.00	0.00
8,300.0	0.00	0.00	8,142.3	-1,067.0	-854.0	-1,060.9	0.00	0.00	0.00
8,400.0	0.00	0.00	8,242.3	-1,067.0	-854.0	-1,060.9	0.00	0.00	0.00
8,500.0	0.00	0.00	8,342.3	-1,067.0	-854.0	-1,060.9	0.00	0.00	0.00
8,600.0	0.00	0.00	8,442.3	-1,067.0	-854.0	-1,060.9	0.00	0.00	0.00
8,700.0	0.00	0.00	8,542.3	-1,067.0	-854.0	-1,060.9	0.00	0.00	0.00
8,800.0	0.00	0.00	8,642.3	-1,067.0	-854.0	-1,060.9	0.00	0.00	0.00
8,900.0	0.00	0.00	8,742.3	-1,067.0	-854.0	-1,060.9	0.00	0.00	0.00
9,000.0	0.00	0.00	8,842.3	-1,067.0	-854.0	-1,060.9	0.00	0.00	0.00
9,100.0	0.00	0.00	8,942.3	-1,067.0	-854.0	-1,060.9	0.00	0.00	0.00
9,200.0	0.00	0.00	9,042.3	-1,067.0	-854.0	-1,060.9	0.00	0.00	0.00
9,300.0	0.00	0.00	9,142.3	-1,067.0	-854.0	-1,060.9	0.00	0.00	0.00
9,400.0	0.00	0.00	9,242.3	-1,067.0	-854.0	-1,060.9	0.00	0.00	0.00
9,500.0	0.00	0.00	9,342.3	-1,067.0	-854.0	-1,060.9	0.00	0.00	0.00
9,579.2	0.00	0.00	9,421.5	-1,067.0	-854.0	-1,060.9	0.00	0.00	0.00
9,600.0	2.50	358.85	9,442.3	-1,066.5	-854.0	-1,060.4	12.00	12.00	0.00
9,625.0	5.50	358.85	9,467.3	-1,064.8	-854.0	-1,058.7	12.00	12.00	0.00
9,650.0	8.50	358.85	9,492.1	-1,061.8	-854.1	-1,055.6	12.00	12.00	0.00
9,675.0	11.50	358.85	9,516.7	-1,057.4	-854.2	-1,051.3	12.00	12.00	0.00
9,700.0	14.51	358.85	9,541.1	-1,051.8	-854.3	-1,045.6	12.00	12.00	0.00
9,725.0	17.51	358.85	9,565.1	-1,044.9	-854.4	-1,038.8	12.00	12.00	0.00
9,750.0	20.51	358.85	9,588.7	-1,036.8	-854.6	-1,030.6	12.00	12.00	0.00
9,775.0	23.51	358.85	9,611.9	-1,027.4	-854.8	-1,021.2	12.00	12.00	0.00



Planning Report

Database:	PEDMB	Local Co-ordinate Reference:	Well #220H
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:	#220H	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)	
9,799.6	26.46	358.85	9,634.2	-1,017.0	-855.0	-1,010.9	12.00	12.00	0.00	
9,825.0	29.51	358.94	9,656.6	-1,005.1	-855.2	-998.9	12.00	12.00	0.35	
9,850.0	32.51	359.02	9,678.0	-992.2	-855.5	-986.1	12.00	12.00	0.29	
9,875.0	35.51	359.08	9,698.8	-978.2	-855.7	-972.1	12.00	12.00	0.25	
9,900.0	38.51	359.13	9,718.7	-963.2	-855.9	-957.0	12.00	12.00	0.21	
9,925.0	41.51	359.18	9,737.9	-947.1	-856.2	-941.0	12.00	12.00	0.19	
9,950.0	44.51	359.22	9,756.2	-930.1	-856.4	-923.9	12.00	12.00	0.16	
9,975.0	47.51	359.25	9,773.5	-912.1	-856.6	-905.9	12.00	12.00	0.15	
10,000.0	50.51	359.29	9,789.9	-893.2	-856.9	-887.1	12.00	12.00	0.13	
10,025.0	53.51	359.32	9,805.3	-873.5	-857.1	-867.4	12.00	12.00	0.12	
10,050.0	56.51	359.35	9,819.6	-853.0	-857.4	-846.9	12.00	12.00	0.11	
10,075.0	59.51	359.37	9,832.9	-831.9	-857.6	-825.7	12.00	12.00	0.11	
10,100.0	62.51	359.40	9,845.0	-810.0	-857.8	-803.8	12.00	12.00	0.10	
10,125.0	65.51	359.42	9,855.9	-787.5	-858.1	-781.4	12.00	12.00	0.09	
10,150.0	68.51	359.45	9,865.7	-764.5	-858.3	-758.3	12.00	12.00	0.09	
10,175.0	71.51	359.47	9,874.3	-741.0	-858.5	-734.9	12.00	12.00	0.09	
10,200.0	74.51	359.49	9,881.6	-717.1	-858.7	-711.0	12.00	12.00	0.08	
10,225.0	77.51	359.51	9,887.6	-692.9	-858.9	-686.7	12.00	12.00	0.08	
10,250.0	80.51	359.53	9,892.4	-668.3	-859.1	-662.2	12.00	12.00	0.08	
10,275.0	83.51	359.55	9,895.9	-643.6	-859.3	-637.4	12.00	12.00	0.08	
10,300.0	86.51	359.57	9,898.0	-618.7	-859.5	-612.5	12.00	12.00	0.08	
10,325.0	89.51	359.59	9,898.9	-593.7	-859.7	-587.5	12.00	12.00	0.08	
10,329.1	90.00	359.59	9,898.9	-589.6	-859.8	-583.4	12.00	12.00	0.08	
10,400.0	90.00	359.59	9,898.9	-518.7	-860.3	-512.5	0.00	0.00	0.00	
10,500.0	90.00	359.59	9,898.9	-418.7	-861.0	-412.5	0.00	0.00	0.00	
10,600.0	90.00	359.59	9,898.9	-318.7	-861.7	-312.5	0.00	0.00	0.00	
10,700.0	90.00	359.59	9,898.9	-218.7	-862.4	-212.5	0.00	0.00	0.00	
10,800.0	90.00	359.59	9,898.9	-118.7	-863.1	-112.5	0.00	0.00	0.00	
10,900.0	90.00	359.59	9,898.9	-18.7	-863.8	-12.5	0.00	0.00	0.00	
11,000.0	90.00	359.59	9,898.9	81.3	-864.6	87.5	0.00	0.00	0.00	
11,100.0	90.00	359.59	9,898.9	181.3	-865.3	187.5	0.00	0.00	0.00	
11,200.0	90.00	359.59	9,898.9	281.3	-866.0	287.5	0.00	0.00	0.00	
11,300.0	90.00	359.59	9,898.9	381.3	-866.7	387.5	0.00	0.00	0.00	
11,400.0	90.00	359.59	9,898.9	481.3	-867.4	487.5	0.00	0.00	0.00	
11,500.0	90.00	359.59	9,898.9	581.3	-868.1	587.5	0.00	0.00	0.00	
11,600.0	90.00	359.59	9,898.9	681.3	-868.9	687.5	0.00	0.00	0.00	
11,700.0	90.00	359.59	9,898.9	781.3	-869.6	787.5	0.00	0.00	0.00	
11,800.0	90.00	359.59	9,898.9	881.3	-870.3	887.5	0.00	0.00	0.00	
11,900.0	90.00	359.59	9,898.9	981.3	-871.0	987.5	0.00	0.00	0.00	
12,000.0	90.00	359.59	9,899.0	1,081.3	-871.7	1,087.5	0.00	0.00	0.00	
12,100.0	90.00	359.59	9,899.0	1,181.3	-872.4	1,187.5	0.00	0.00	0.00	
12,200.0	90.00	359.59	9,899.0	1,281.3	-873.1	1,287.5	0.00	0.00	0.00	
12,300.0	90.00	359.59	9,899.0	1,381.3	-873.9	1,387.5	0.00	0.00	0.00	
12,400.0	90.00	359.59	9,899.0	1,481.3	-874.6	1,487.5	0.00	0.00	0.00	
12,500.0	90.00	359.59	9,899.0	1,581.3	-875.3	1,587.5	0.00	0.00	0.00	
12,600.0	90.00	359.59	9,899.0	1,681.3	-876.0	1,687.5	0.00	0.00	0.00	
12,700.0	90.00	359.59	9,899.0	1,781.3	-876.7	1,787.5	0.00	0.00	0.00	
12,800.0	90.00	359.59	9,899.0	1,881.2	-877.4	1,887.5	0.00	0.00	0.00	
12,900.0	90.00	359.59	9,899.0	1,981.2	-878.2	1,987.5	0.00	0.00	0.00	
13,000.0	90.00	359.59	9,899.0	2,081.2	-878.9	2,087.5	0.00	0.00	0.00	
13,100.0	90.00	359.59	9,899.0	2,181.2	-879.6	2,187.5	0.00	0.00	0.00	
13,200.0	90.00	359.59	9,899.0	2,281.2	-880.3	2,287.5	0.00	0.00	0.00	
13,300.0	90.00	359.59	9,899.0	2,381.2	-881.0	2,387.5	0.00	0.00	0.00	
13,400.0	90.00	359.59	9,899.0	2,481.2	-881.7	2,487.5	0.00	0.00	0.00	



Planning Report

Database:	PEDMB	Local Co-ordinate Reference:	Well #220H
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:	#220H	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)
13,500.0	90.00	359.59	9,899.0	2,581.2	-882.5	2,587.5	0.00	0.00	0.00
13,600.0	90.00	359.59	9,899.0	2,681.2	-883.2	2,687.5	0.00	0.00	0.00
13,700.0	90.00	359.59	9,899.0	2,781.2	-883.9	2,787.5	0.00	0.00	0.00
13,800.0	90.00	359.59	9,899.0	2,881.2	-884.6	2,887.5	0.00	0.00	0.00
13,900.0	90.00	359.59	9,899.0	2,981.2	-885.3	2,987.5	0.00	0.00	0.00
14,000.0	90.00	359.59	9,899.0	3,081.2	-886.0	3,087.5	0.00	0.00	0.00
14,100.0	90.00	359.59	9,899.0	3,181.2	-886.8	3,187.5	0.00	0.00	0.00
14,200.0	90.00	359.59	9,899.0	3,281.2	-887.5	3,287.5	0.00	0.00	0.00
14,300.0	90.00	359.59	9,899.0	3,381.2	-888.2	3,387.5	0.00	0.00	0.00
14,400.0	90.00	359.59	9,899.0	3,481.2	-888.9	3,487.5	0.00	0.00	0.00
14,413.8	90.00	359.59	9,899.0	3,495.0	-889.0	3,501.3	0.00	0.00	0.00
14,450.0	90.00	355.94	9,899.0	3,531.2	-890.4	3,537.5	10.07	0.00	-10.07
14,500.0	90.00	350.91	9,899.0	3,580.8	-896.1	3,587.2	10.07	0.00	-10.07
14,550.0	90.00	345.88	9,899.0	3,629.8	-906.2	3,636.2	10.07	0.00	-10.07
14,600.0	90.00	340.84	9,899.0	3,677.7	-920.5	3,684.2	10.07	0.00	-10.07
14,650.0	90.00	335.81	9,899.0	3,724.1	-939.0	3,730.8	10.07	0.00	-10.07
14,700.0	90.00	330.77	9,899.0	3,768.8	-961.4	3,775.6	10.07	0.00	-10.07
14,750.0	90.00	325.74	9,899.0	3,811.3	-987.7	3,818.3	10.07	0.00	-10.07
14,800.0	90.00	320.71	9,899.0	3,851.3	-1,017.6	3,858.5	10.07	0.00	-10.07
14,850.0	90.00	315.67	9,899.0	3,888.6	-1,051.0	3,896.0	10.07	0.00	-10.07
14,900.0	90.00	310.64	9,899.0	3,922.8	-1,087.4	3,930.5	10.07	0.00	-10.07
14,950.0	90.00	305.61	9,899.0	3,953.6	-1,126.8	3,961.6	10.07	0.00	-10.07
15,000.0	90.00	300.57	9,899.0	3,980.9	-1,168.6	3,989.2	10.07	0.00	-10.07
15,050.0	90.00	295.54	9,899.0	4,004.4	-1,212.7	4,013.0	10.07	0.00	-10.07
15,100.0	90.00	290.50	9,899.0	4,024.0	-1,258.7	4,032.9	10.07	0.00	-10.07
15,150.0	90.00	285.47	9,899.0	4,039.4	-1,306.3	4,048.6	10.07	0.00	-10.07
15,200.0	90.00	280.44	9,899.0	4,050.6	-1,355.0	4,060.2	10.07	0.00	-10.07
15,250.0	90.00	275.40	9,899.0	4,057.5	-1,404.5	4,067.4	10.07	0.00	-10.07
15,300.0	90.00	270.37	9,899.0	4,060.0	-1,454.4	4,070.3	10.07	0.00	-10.07
15,308.6	90.00	269.50	9,899.0	4,060.0	-1,463.0	4,070.4	10.07	0.00	-10.07
15,350.0	90.00	265.35	9,899.0	4,058.1	-1,504.4	4,068.8	10.04	0.00	-10.04
15,400.0	90.00	260.33	9,899.0	4,051.9	-1,554.0	4,062.9	10.04	0.00	-10.04
15,450.0	90.00	255.31	9,899.0	4,041.4	-1,602.8	4,052.7	10.04	0.00	-10.04
15,500.0	90.00	250.29	9,899.0	4,026.6	-1,650.6	4,038.3	10.04	0.00	-10.04
15,550.0	90.00	245.28	9,899.0	4,007.7	-1,696.9	4,019.7	10.04	0.00	-10.04
15,600.0	90.00	240.26	9,899.0	3,984.8	-1,741.3	3,997.2	10.04	0.00	-10.04
15,650.0	90.00	235.24	9,899.0	3,958.1	-1,783.6	3,970.8	10.04	0.00	-10.04
15,700.0	90.00	230.22	9,899.0	3,927.9	-1,823.4	3,940.8	10.04	0.00	-10.04
15,750.0	90.00	225.21	9,899.0	3,894.2	-1,860.3	3,907.5	10.04	0.00	-10.04
15,800.0	90.00	220.19	9,899.0	3,857.5	-1,894.2	3,871.0	10.04	0.00	-10.04
15,850.0	90.00	215.17	9,899.0	3,817.9	-1,924.8	3,831.6	10.04	0.00	-10.04
15,900.0	90.00	210.15	9,899.0	3,775.9	-1,951.8	3,789.7	10.04	0.00	-10.04
15,950.0	90.00	205.13	9,899.0	3,731.6	-1,974.9	3,745.6	10.04	0.00	-10.04
16,000.0	90.00	200.12	9,899.0	3,685.5	-1,994.2	3,699.6	10.04	0.00	-10.04
16,050.0	90.00	195.10	9,899.0	3,637.8	-2,009.3	3,652.1	10.04	0.00	-10.04
16,100.0	90.00	190.08	9,899.0	3,589.0	-2,020.2	3,603.4	10.04	0.00	-10.04
16,150.0	90.00	185.06	9,899.0	3,539.5	-2,026.8	3,553.9	10.04	0.00	-10.04
16,202.5	90.00	179.79	9,899.0	3,487.0	-2,029.0	3,501.4	10.04	0.00	-10.04
16,300.0	90.00	179.78	9,899.0	3,389.5	-2,028.6	3,404.0	0.01	0.00	-0.01
16,400.0	90.00	179.77	9,899.0	3,289.5	-2,028.2	3,304.0	0.01	0.00	-0.01
16,500.0	90.00	179.76	9,899.0	3,189.5	-2,027.8	3,204.0	0.01	0.00	-0.01
16,600.0	90.00	179.75	9,899.0	3,089.5	-2,027.4	3,104.0	0.01	0.00	-0.01
16,700.0	90.00	179.74	9,899.0	2,989.6	-2,027.0	3,004.0	0.01	0.00	-0.01
16,800.0	90.00	179.73	9,899.0	2,889.6	-2,026.5	2,904.0	0.01	0.00	-0.01



Planning Report

Database:	PEDMB	Local Co-ordinate Reference:	Well #220H
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:	#220H	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)	
16,900.0	90.00	179.72	9,899.0	2,789.6	-2,026.0	2,804.0	0.01	0.00	-0.01	
17,000.0	90.00	179.71	9,899.0	2,689.6	-2,025.5	2,704.0	0.01	0.00	-0.01	
17,100.0	90.00	179.70	9,899.0	2,589.6	-2,025.0	2,604.0	0.01	0.00	-0.01	
17,200.0	90.00	179.69	9,899.0	2,489.6	-2,024.5	2,504.0	0.01	0.00	-0.01	
17,300.0	90.00	179.68	9,899.0	2,389.6	-2,024.0	2,404.0	0.01	0.00	-0.01	
17,400.0	90.00	179.67	9,899.0	2,289.6	-2,023.4	2,304.0	0.01	0.00	-0.01	
17,500.0	90.00	179.66	9,899.0	2,189.6	-2,022.8	2,204.0	0.01	0.00	-0.01	
17,600.0	90.00	179.65	9,899.0	2,089.6	-2,022.2	2,104.0	0.01	0.00	-0.01	
17,700.0	90.00	179.64	9,899.0	1,989.6	-2,021.6	2,004.0	0.01	0.00	-0.01	
17,800.0	90.00	179.63	9,899.0	1,889.6	-2,021.0	1,904.0	0.01	0.00	-0.01	
17,900.0	90.00	179.62	9,899.0	1,789.6	-2,020.3	1,804.0	0.01	0.00	-0.01	
18,000.0	90.00	179.61	9,899.0	1,689.6	-2,019.7	1,704.0	0.01	0.00	-0.01	
18,100.0	90.00	179.60	9,899.0	1,589.6	-2,019.0	1,604.0	0.01	0.00	-0.01	
18,200.0	90.00	179.59	9,899.0	1,489.6	-2,018.3	1,504.0	0.01	0.00	-0.01	
18,300.0	90.00	179.58	9,899.0	1,389.6	-2,017.6	1,404.0	0.01	0.00	-0.01	
18,400.0	90.00	179.57	9,899.0	1,289.6	-2,016.8	1,304.0	0.01	0.00	-0.01	
18,500.0	90.00	179.56	9,899.0	1,189.6	-2,016.1	1,204.0	0.01	0.00	-0.01	
18,600.0	90.00	179.55	9,899.0	1,089.6	-2,015.3	1,104.0	0.01	0.00	-0.01	
18,700.0	90.00	179.54	9,899.0	989.6	-2,014.5	1,004.0	0.01	0.00	-0.01	
18,800.0	90.00	179.53	9,899.0	889.6	-2,013.7	904.0	0.01	0.00	-0.01	
18,900.0	90.00	179.52	9,899.0	789.6	-2,012.9	804.0	0.01	0.00	-0.01	
19,000.0	90.00	179.51	9,899.0	689.6	-2,012.0	704.0	0.01	0.00	-0.01	
19,100.0	90.00	179.50	9,899.0	589.6	-2,011.2	604.0	0.01	0.00	-0.01	
19,200.0	90.00	179.49	9,899.0	489.6	-2,010.3	504.0	0.01	0.00	-0.01	
19,300.0	90.00	179.49	9,899.0	389.6	-2,009.4	404.0	0.01	0.00	-0.01	
19,400.0	90.00	179.48	9,899.0	289.6	-2,008.5	304.0	0.01	0.00	-0.01	
19,500.0	90.00	179.47	9,899.0	189.6	-2,007.6	204.0	0.01	0.00	-0.01	
19,600.0	90.00	179.46	9,899.0	89.6	-2,006.7	104.0	0.01	0.00	-0.01	
19,700.0	90.00	179.45	9,899.0	-10.4	-2,005.7	4.0	0.01	0.00	-0.01	
19,800.0	90.00	179.44	9,899.0	-110.4	-2,004.7	-96.0	0.01	0.00	-0.01	
19,900.0	90.00	179.43	9,899.0	-210.4	-2,003.7	-196.0	0.01	0.00	-0.01	
20,000.0	90.00	179.42	9,899.0	-310.4	-2,002.7	-296.0	0.01	0.00	-0.01	
20,100.0	90.00	179.41	9,899.0	-410.4	-2,001.7	-396.0	0.01	0.00	-0.01	
20,200.0	90.00	179.40	9,899.0	-510.3	-2,000.6	-496.0	0.01	0.00	-0.01	
20,300.0	90.00	179.39	9,899.0	-610.3	-1,999.6	-596.0	0.01	0.00	-0.01	
20,400.0	90.00	179.38	9,899.0	-710.3	-1,998.5	-696.0	0.01	0.00	-0.01	
20,500.0	90.00	179.37	9,899.0	-810.3	-1,997.4	-796.0	0.01	0.00	-0.01	
20,600.0	90.00	179.36	9,899.0	-910.3	-1,996.3	-896.0	0.01	0.00	-0.01	
20,700.0	90.00	179.35	9,899.0	-1,010.3	-1,995.2	-996.0	0.01	0.00	-0.01	
20,713.7	90.00	179.35	9,899.0	-1,024.0	-1,995.0	-1,009.7	0.01	0.00	-0.01	



Planning Report

Database:	PEDMB	Local Co-ordinate Reference:	Well #220H
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:	#220H	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 - Point	0.00	0.00	9,421.5	-1,067.0	-854.0	425,400.00	790,106.00	32° 10' 1.014 N	103° 31' 45.749 W
FTP(Dragon 36 State #2 - plan hits target center - Point	0.00	0.00	9,634.2	-1,017.0	-855.0	425,450.00	790,105.00	32° 10' 1.509 N	103° 31' 45.756 W
PBHL(Dragon 36 State #3 - plan hits target center - Point	0.00	0.00	9,899.0	-1,024.0	-1,995.0	425,443.00	788,965.00	32° 10' 1.523 N	103° 31' 59.019 W
END(Dragon 36 State #4 - plan hits target center - Point	0.00	0.00	9,899.0	3,487.0	-2,029.0	429,954.00	788,931.00	32° 10' 46.163 N	103° 31' 59.024 W
Start(Dragon 36 State #5 - plan hits target center - Point	0.00	0.00	9,899.0	3,495.0	-889.0	429,962.00	790,071.00	32° 10' 46.158 N	103° 31' 45.760 W
MID(Dragon 36 State #6 - plan hits target center - Point	0.00	0.00	9,899.0	4,060.0	-1,463.0	430,527.00	789,497.00	32° 10' 51.791 N	103° 31' 52.389 W



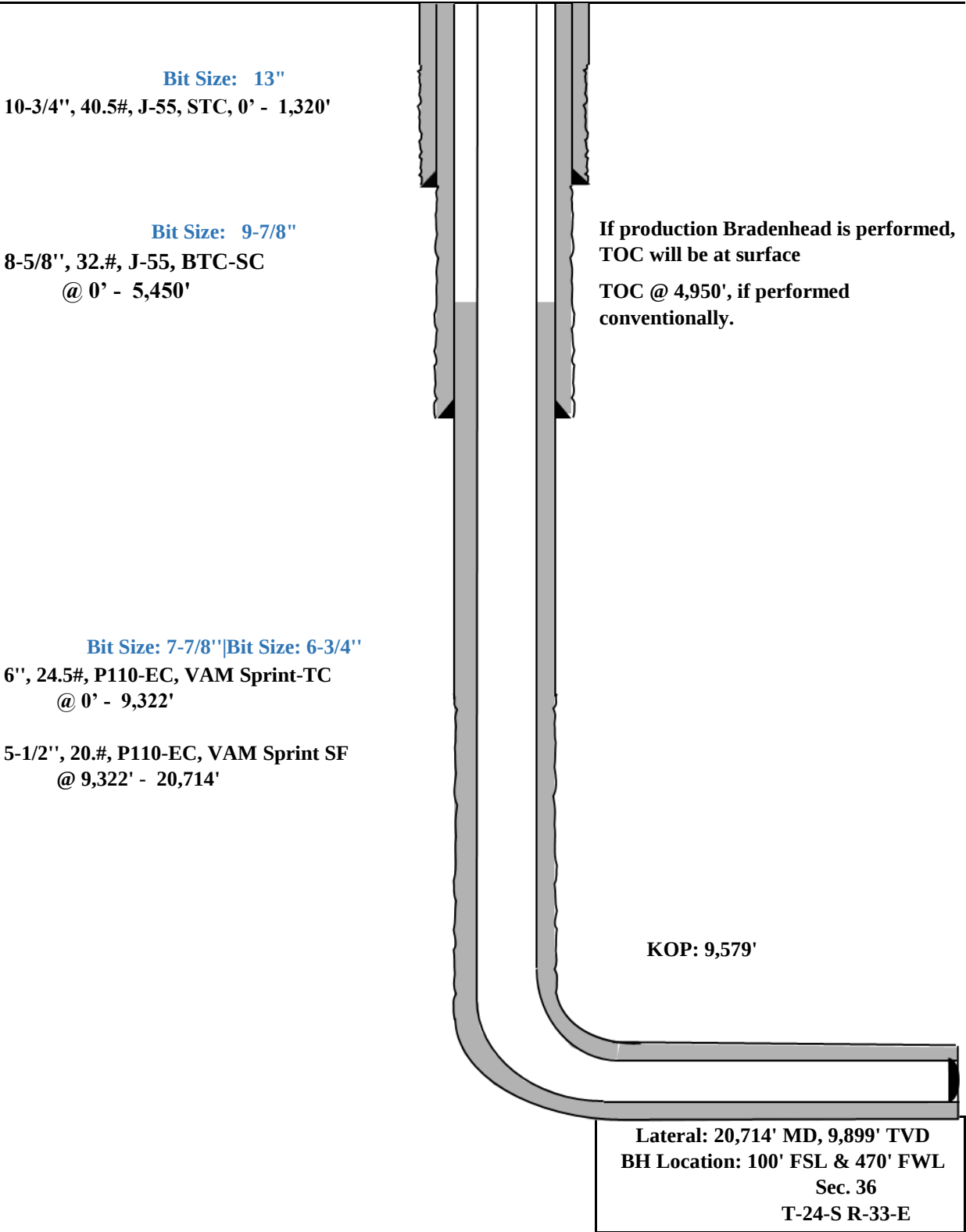
Dragon 36 State 220H

1112' FSL
2473' FWL
Section 36
T-24-S, R-33-E

Revised Wellbore

API: 30-025-53216

KB: 3506'
GL: 3481'





Dragon 36 State 220H

Permit Information:

Well Name: Dragon 36 State 220H

Location: SHL: 1112' FSL & 2473' FWL, Section 36, T-24-S, R-33-E, LEA Co., N.M.

BHL: 100' FSL & 470' FWL, Section 36, T-24-S, R-33-E, LEA Co., N.M.

Casing Program:

Hole Size	Interval MD From (ft) To (ft)		Interval TVD From (ft) To (ft)		Csg OD	Weight	Grade	Conn
13"	0	1,313	0	1,320	10-3/4"	40.5#	J-55	STC
9-7/8"	0	5,450	0	5,281	8-5/8"	32#	J-55	BTC-SC
7-7/8"	0	9,479	0	9,322	6"	24.5#	P110-EC	VAM Sprint-TC
6-3/4"	9,479	20,714	9,322	9,899	5-1/2"	20#	P110-EC	VAM Sprint SF

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

Cementing Program:

Depth	No. Sacks	Wt. ppg	Yld Ft3/sk	Slurry Description
1,313'	290	13.5	1.73	Class C + 4.0% Bentonite + 0.6% CD-32 + 0.5% CaCl2 + 0.25 lb/sk Cello-Flake (TOC @ Surface)
	100	14.8	1.34	Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate
5,450'	440	12.7	1.11	Tail: Class C + 10% NaCl + 6% Bentonite Gel + 3% MagOx (TOC @ Surface)
	300	14.8	1.5	Lead: Class C + 3% CaCl2 + 3% Microbond (TOC @ 4,225')
20,714'	660	10.5	3.21	Lead: Class C + 3% CaCl2 + 3% Microbond (TOC @ 4,950')
	1320	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 – 1,320'	Fresh - Gel	8.6-8.8	28-34	N/c
1,320' – 5,280'	Brine	9.0-10.5	28-34	N/c
5,280' – 20,714' Lateral	Oil Base	8.8-9.5	58-68	N/c - 6



Dragon 36 State 220H

TUBING REQUIREMENTS

EOG respectfully 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

**Dragon 36 State 220H (FKA 304H) API #: 30-025-53216 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.
- Bradenhead will be the primary option for production cementing. EOG also requests to have the conventional option in place to accommodate for logistical or wellbore conditions. The tie back requirements will be met if the cement is pumped conventionally, and cement volumes will be adjusted accordingly. TOC will be verified by CBL.
- 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):

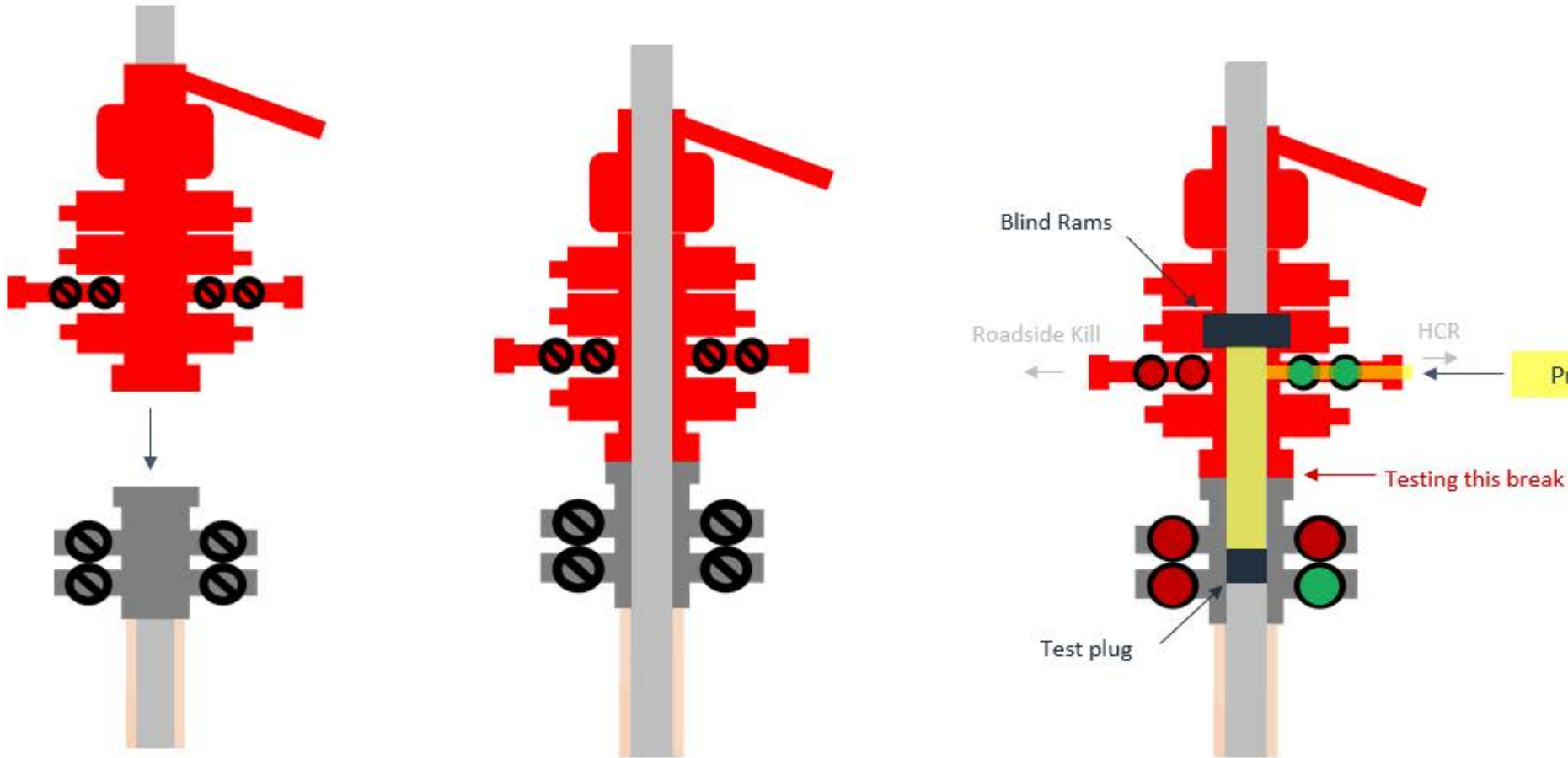
- EOG BLM Variance 2a - Intermediate Bradenhead Cement
- EOG BLM Variance 3a_b - BOP Break-test and Offline Intermediate Cement
- EOG BLM Variance 3c - Shallow Target Production Offline Bradenhead Cement
- EOG BLM Variance 4a - Salt Section Annular Clearance
- EOG BLM Variance 5a - Alternate Shallow Casing Designs

**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.

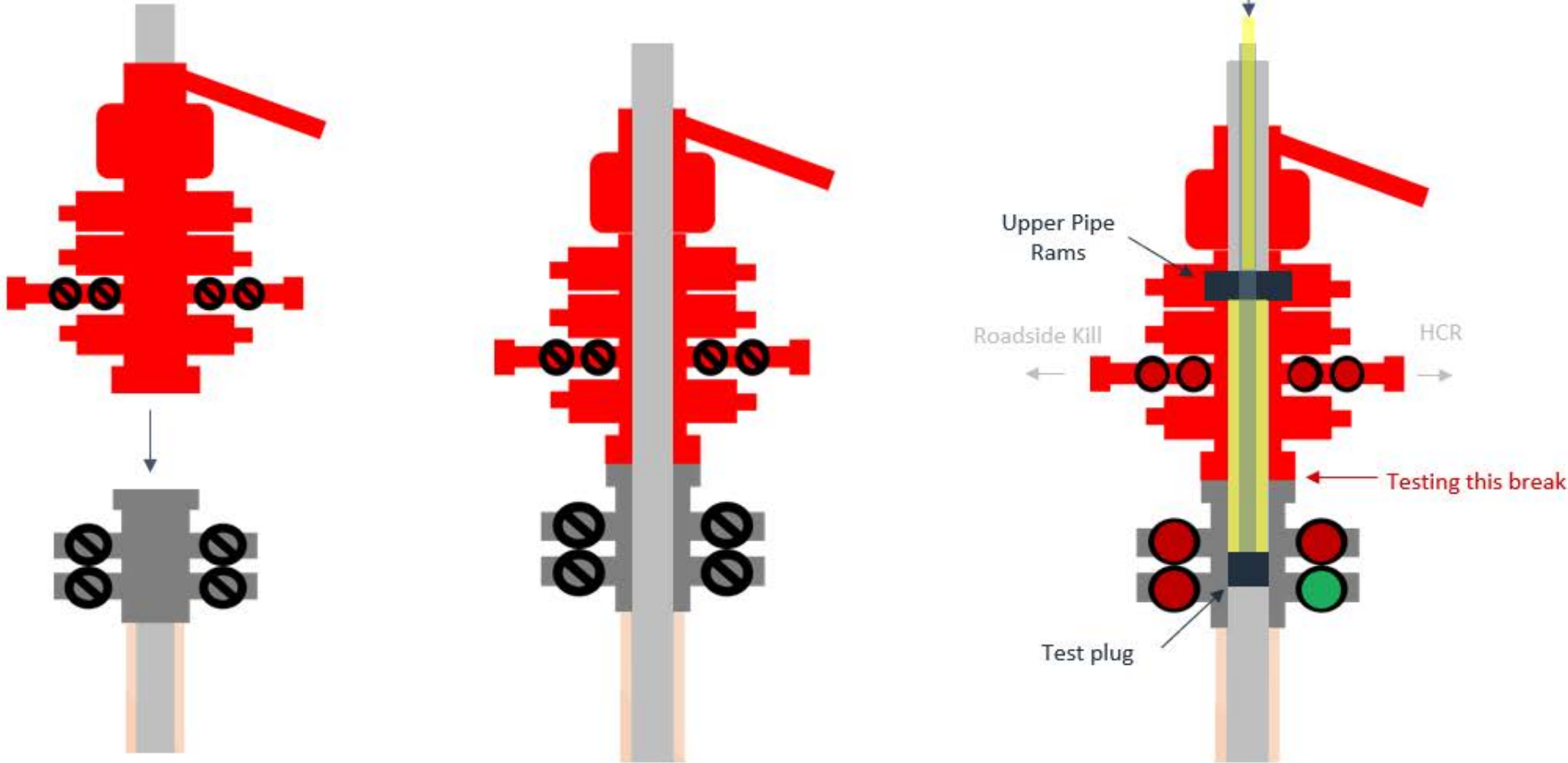
Break Test Diagram (HCR valve)



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 379471

CONDITIONS

Operator: EOG RESOURCES INC 5509 Champions Drive Midland, TX 79706	OGRID: 7377
	Action Number: 379471
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	ALL PREVIOUS COA's APPLY	9/5/2024