

Santa Fe Main Office

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General Information

Phone: (505) 629-6116

Online Phone Directory Visit:

<https://www.emnrd.nm.gov/ocd/contact-us/>State of New Mexico
Energy, Minerals and Natural ResourcesForm C-103
Revised July 18, 2013OIL 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. 30-025-53053 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 OSPREY 10 8. Well Number 101H
3. Address of Operator P.O. Box 2267 Midland, Texas 79702		9. OGRID Number 7377 10. Pool name or Wildcat 97369 - RED HILLS;BONE SPRING, EAST
4. Well Location Unit Letter N : 140' feet from the SOUTH line and 1541' feet from the WEST line Section 10 Township 25S Range 34E NMPM LEA County		
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3335' 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:

OSPREY 10 520H (FKA 101H) API #: 30-025-53053

Change name from OSPREY 10 101H to OSPREY 10 520H.

Change BHL from T-25-S, R-34-E, Sec 3, 2540' FSL, 330' FWL, LEA Co., NM,
to T-25-S, R-34-E, Sec 3, 2539' FSL, 330' FWL, LEA Co., N.M.

Change target formation to Second Bone Spring E.

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 Kayla McConnell TITLE REGULATORY SPECIALIST DATE 04/25/2025

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 30-025-53053	Pool Code 97369	Pool Name Red Hills; Bone Spring, East
Property Code 313188	Property Name OSPREY 10	Well Number 520H
OGRID No. 7377	Operator Name EOG RESOURCES, INC.	Ground Level Elevation 3335'
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	10	25-S	34-E	-	140' S	1541' W	N 32.1381597	W 103.4613560	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
L	3	25-S	34-E	-	2539' S	330' W	N 32.1592678	W 103.4652479	LEA

Dedicated Acres 240.00	Infill or Defining Well INFILL	Defining Well API 30-025-43650	Overlapping Spacing Unit (Y/N) N	Consolidated Code F
Order Numbers R14371, R14371-A			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
M	10	25-S	34-E	-	50' S	330' W	N 32.1379163	W 103.4652686	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
M	10	25-S	34-E	-	100' S	330' W	N 32.1380537	W 103.4652684	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
L	3	25-S	34-E	-	2539' S	330' W	N 32.1592678	W 103.4652479	LEA

Unitized Area or Area of Uniform Interest UNITIZED AREA	Spacing Unity Type ☒ Horizontal ☐ Vertical	Ground Floor Elevation 3360'
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OPERATOR CERTIFICATION

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.

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.

Kayla McConnell

04/25/2025

Signature Date

KAYLA MCCONNELL

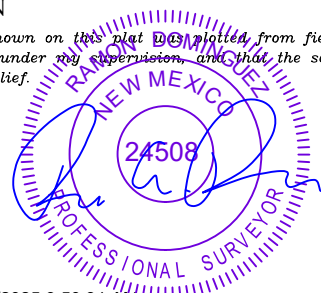
Print Name

KAYLA_MCCONNELL@EOG RESOURCES.COM

E-mail Address

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.



4/15/2025 9:50:31 AM

Signature and Seal of Professional Surveyor Date

Certificate Number

Date of Survey

04/04/2025

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		OSPREY 10 520H		

SURFACE LOCATION (SHL) NEW MEXICO EAST NAD 1983 X=811239 Y=415091 LAT.: N 32.1381597 LONG.: W 103.4613560 NAD 1927 X=770052 Y=415033 LAT.: N 32.1380353 LONG.: W 103.4608873 140' FSL 1541' FWL KICK OFF POINT (KOP) NEW MEXICO EAST NAD 1983 X=810028 Y=414992 LAT.: N 32.1379163 LONG.: W 103.4652686 NAD 1927 X=768842 Y=414935 LAT.: N 32.1377918 LONG.: W 103.4647997 50' FSL 330' FWL			UPPER MOST PERF. (UMP) NEW MEXICO EAST NAD 1983 X=810028 Y=415042 LAT.: N 32.1380537 LONG.: W 103.4652684 NAD 1927 X=768842 Y=414985 LAT.: N 32.1379293 LONG.: W 103.4647995 100' FSL 330' FWL LOWER MOST PERF. (LMP) BOTTOM HOLE LOCATION (BHL) NEW MEXICO EAST NAD 1983 X=809972 Y=422760 LAT.: N 32.1592678 LONG.: W 103.4652479 NAD 1927 X=768786 Y=422702 LAT.: N 32.1591436 LONG.: W 103.4647778 2539' FSL 330' 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. 04/04/2025 Date of Survey Signature and Seal of Professional Surveyor: 		

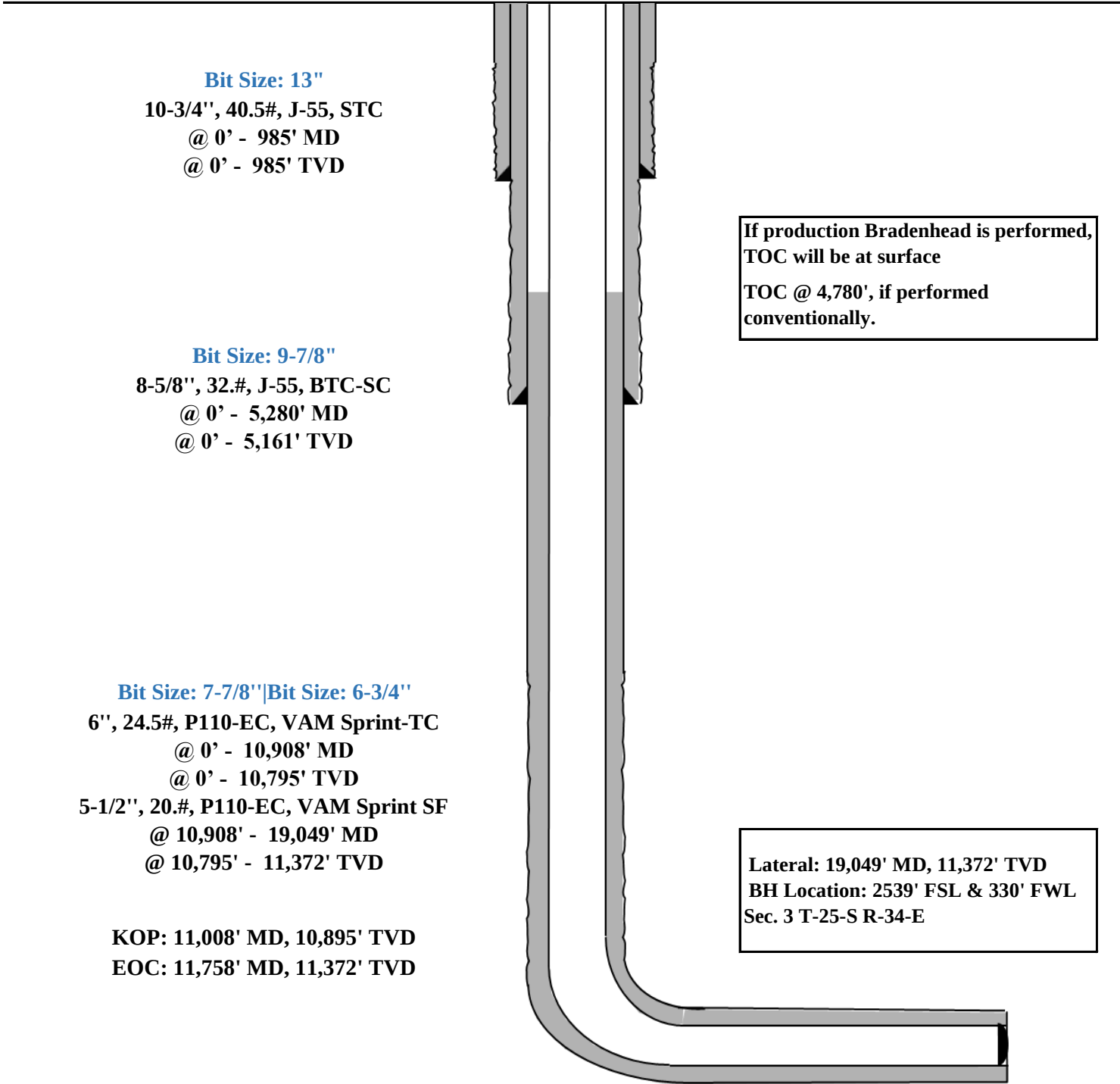


OSPREY 10 #520H
LEA County, New Mexico
Revised Wellbore

140' FSL
1541' FWL
Section 10
T-25-S, R-34-E

KB: 3360'
GL: 3335'

API: 30-025-53053



**OSPREY 10 #520H****Permit Information:**

Well Name: OSPREY 10 520H

Location: SHL: 140' FSL & 1541' FWL, Section 10, T-25-S, R-34-E, LEA Co., N.M.

BHL: 2539' FSL & 330' FWL, Section 3, T-25-S, R-34-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	985	0	985	10-3/4"	40.5#	J-55	STC
9-7/8"	0	5,280	0	5,161	8-5/8"	32#	J-55	BTC-SC
7-7/8"	0	10,908	0	10,795	6"	24.5#	P110-EC	VAM Sprint-TC
6-3/4"	10,908	19,049	10,795	11,372	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.

Cement Program:

Depth MD	No. Sacks	Wt. ppg	Yld Ft3/sk	Slurry Description
985'	220	13.5	1.73	Class C/H + additives (TOC @ Surface)
	100	14.8	1.34	Class C/H + additives
5,280'	430	12.7	1.11	Tail: Class C/H + additives + expansion additives (TOC @ 2000')
	250	14.8	1.5	Lead: Class C/H + additives (TOC @ 4,129')
19,049'	840	10.5	3.21	Lead: Class C/H + additives (TOC @ 4,780')
	960	13.2	1.52	Tail: Class C/H + additives (TOC @ 11,008')

Mud Program:

Section	Depth	Type	Weight (ppg)	Viscosity	Water Loss
Surface	0 – 990'	Fresh - Gel	8.6-9.2	28-34	N/c
Intermediate	990' – 5,160'	Brine	9.0-10.5	28-34	N/c
Production	5,160' – 19,049' Lateral	Oil Base	8.8-9.5	58-68	N/c - 6



OSPREY 10 #520H

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 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.



OSPREY 10 #520H

GEOLOGIC NAME OF SURFACE FORMATION:

Permian

ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

Rustler	875'
Tamarisk Anhydrite	960'
Top of Salt	1,255'
Base of Salt	5,061'
Lamar	5,323'
Bell Canyon	5,346'
Cherry Canyon	6,301'
Brushy Canyon	7,887'
Bone Spring Lime	9,298'
Leonard (Avalon) Shale	9,335'
1st Bone Spring Sand	10,317'
2nd Bone Spring Shale	10,533'
2nd Bone Spring Sand	10,836'
3rd Bone Spring Carb	11,372'
3rd Bone Spring Sand	11,904'
TD	11,372'

ESTIMATED DEPTHS OF ANTICIPATED FRESH WATER, OIL OR GAS:

Upper Permian Sands	0- 400' Fresh Water
Lamar	5,323' Oil
Cherry Canyon	6,301' Oil
Brushy Canyon	7,887' Oil
Bone Spring Lime	9,298' Oil
Leonard (Avalon) Shale	9,335' Oil
1st Bone Spring Sand	10,317' Oil
2nd Bone Spring Shale	10,533' Oil
2nd Bone Spring Sand	10,836' Oil



Midland

Lea County, NM (NAD 83 NME)

Osprey 10

#520H

OH

Plan: Plan #0.1 RT

Standard Planning Report

21 April, 2025



Planning Report

Database:	PEDMB	Local Co-ordinate Reference:	Well #520H
Company:	Midland	TVD Reference:	kb = 26' @ 3361.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	kb = 26' @ 3361.0usft
Site:	Osprey 10	North Reference:	Grid
Well:	#520H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1 RT		

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	Osprey 10				
Site Position:		Northing:	415,148.00 usft	Latitude:	32° 8' 18.063 N
From:	Map	Easting:	809,711.00 usft	Longitude:	103° 27' 58.640 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "		

Well	#520H					
Well Position	+N/-S	0.0 usft	Northing:	415,091.00 usft	Latitude:	32° 8' 17.377 N
	+E/-W	0.0 usft	Easting:	811,239.00 usft	Longitude:	103° 27' 40.876 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,335.0 usft
Grid Convergence:		0.46 °				

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2025	4/21/2025	6.20	59.70	47,004.38739837

Design	Plan #0.1 RT				
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	350.62	

Plan Survey Tool Program	Date	4/21/2025			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.0	19,048.8	Plan #0.1 RT (OH)	EOG MWD+IFR1	
				MWD + IFR1	



Planning Report

Database:	PEDMB	Local Co-ordinate Reference:	Well #520H
Company:	Midland	TVD Reference:	kb = 26' @ 3361.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	kb = 26' @ 3361.0usft
Site:	Osprey 10	North Reference:	Grid
Well:	#520H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1 RT		

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	
1,085.0	0.00	0.00	1,085.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,635.1	11.00	265.33	1,631.7	-4.3	-52.5	2.00	2.00	0.00	265.33	
7,450.6	11.00	265.33	7,340.3	-94.7	-1,158.5	0.00	0.00	0.00	0.00	
8,000.6	0.00	0.00	7,887.0	-99.0	-1,211.0	2.00	-2.00	0.00	180.00	
11,008.1	0.00	0.00	10,894.5	-99.0	-1,211.0	0.00	0.00	0.00	0.00	KOP(Osprey 10 #520H)
11,228.6	26.46	0.00	11,107.2	-49.0	-1,211.0	12.00	12.00	0.00	0.00	FTP(Osprey 10 #520H)
11,758.1	90.00	359.58	11,371.9	378.5	-1,213.2	12.00	12.00	-0.08	-0.47	
19,048.8	90.00	359.58	11,372.0	7,669.0	-1,267.0	0.00	0.00	0.00	0.00	PBHL(Osprey 10 #520H)



Planning Report

Database:	PEDMB	Local Co-ordinate Reference:	Well #520H
Company:	Midland	TVD Reference:	kb = 26' @ 3361.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	kb = 26' @ 3361.0usft
Site:	Osprey 10	North Reference:	Grid
Well:	#520H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1 RT		

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
1,085.0	0.00	0.00	1,085.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.30	265.33	1,100.0	0.0	0.0	0.0	2.00	2.00	0.00
1,200.0	2.30	265.33	1,200.0	-0.2	-2.3	0.2	2.00	2.00	0.00
1,300.0	4.30	265.33	1,299.8	-0.7	-8.0	0.7	2.00	2.00	0.00
1,400.0	6.30	265.33	1,399.4	-1.4	-17.2	1.4	2.00	2.00	0.00
1,500.0	8.30	265.33	1,498.6	-2.4	-29.9	2.5	2.00	2.00	0.00
1,600.0	10.30	265.33	1,597.2	-3.8	-46.0	3.8	2.00	2.00	0.00
1,635.1	11.00	265.33	1,631.7	-4.3	-52.5	4.3	2.00	2.00	0.00
1,700.0	11.00	265.33	1,695.4	-5.3	-64.8	5.3	0.00	0.00	0.00
1,800.0	11.00	265.33	1,793.6	-6.9	-83.8	6.9	0.00	0.00	0.00
1,900.0	11.00	265.33	1,891.8	-8.4	-102.9	8.5	0.00	0.00	0.00
2,000.0	11.00	265.33	1,989.9	-10.0	-121.9	10.0	0.00	0.00	0.00
2,100.0	11.00	265.33	2,088.1	-11.5	-140.9	11.6	0.00	0.00	0.00
2,200.0	11.00	265.33	2,186.2	-13.1	-159.9	13.2	0.00	0.00	0.00
2,300.0	11.00	265.33	2,284.4	-14.6	-178.9	14.7	0.00	0.00	0.00
2,400.0	11.00	265.33	2,382.6	-16.2	-198.0	16.3	0.00	0.00	0.00
2,500.0	11.00	265.33	2,480.7	-17.7	-217.0	17.9	0.00	0.00	0.00
2,600.0	11.00	265.33	2,578.9	-19.3	-236.0	19.4	0.00	0.00	0.00
2,700.0	11.00	265.33	2,677.1	-20.8	-255.0	21.0	0.00	0.00	0.00
2,800.0	11.00	265.33	2,775.2	-22.4	-274.0	22.6	0.00	0.00	0.00
2,900.0	11.00	265.33	2,873.4	-24.0	-293.1	24.1	0.00	0.00	0.00
3,000.0	11.00	265.33	2,971.5	-25.5	-312.1	25.7	0.00	0.00	0.00
3,100.0	11.00	265.33	3,069.7	-27.1	-331.1	27.3	0.00	0.00	0.00
3,200.0	11.00	265.33	3,167.9	-28.6	-350.1	28.8	0.00	0.00	0.00
3,300.0	11.00	265.33	3,266.0	-30.2	-369.1	30.4	0.00	0.00	0.00
3,400.0	11.00	265.33	3,364.2	-31.7	-388.1	32.0	0.00	0.00	0.00
3,500.0	11.00	265.33	3,462.4	-33.3	-407.2	33.5	0.00	0.00	0.00
3,600.0	11.00	265.33	3,560.5	-34.8	-426.2	35.1	0.00	0.00	0.00
3,700.0	11.00	265.33	3,658.7	-36.4	-445.2	36.7	0.00	0.00	0.00
3,800.0	11.00	265.33	3,756.8	-38.0	-464.2	38.2	0.00	0.00	0.00
3,900.0	11.00	265.33	3,855.0	-39.5	-483.2	39.8	0.00	0.00	0.00
4,000.0	11.00	265.33	3,953.2	-41.1	-502.3	41.4	0.00	0.00	0.00
4,100.0	11.00	265.33	4,051.3	-42.6	-521.3	42.9	0.00	0.00	0.00
4,200.0	11.00	265.33	4,149.5	-44.2	-540.3	44.5	0.00	0.00	0.00
4,300.0	11.00	265.33	4,247.7	-45.7	-559.3	46.1	0.00	0.00	0.00
4,400.0	11.00	265.33	4,345.8	-47.3	-578.3	47.6	0.00	0.00	0.00
4,500.0	11.00	265.33	4,444.0	-48.8	-597.4	49.2	0.00	0.00	0.00
4,600.0	11.00	265.33	4,542.1	-50.4	-616.4	50.8	0.00	0.00	0.00
4,700.0	11.00	265.33	4,640.3	-51.9	-635.4	52.3	0.00	0.00	0.00
4,800.0	11.00	265.33	4,738.5	-53.5	-654.4	53.9	0.00	0.00	0.00
4,900.0	11.00	265.33	4,836.6	-55.1	-673.4	55.5	0.00	0.00	0.00
5,000.0	11.00	265.33	4,934.8	-56.6	-692.5	57.0	0.00	0.00	0.00
5,100.0	11.00	265.33	5,033.0	-58.2	-711.5	58.6	0.00	0.00	0.00



Planning Report

Database:	PEDMB	Local Co-ordinate Reference:	Well #520H
Company:	Midland	TVD Reference:	kb = 26' @ 3361.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	kb = 26' @ 3361.0usft
Site:	Osprey 10	North Reference:	Grid
Well:	#520H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1 RT		

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	11.00	265.33	5,131.1	-59.7	-730.5	60.2	0.00	0.00	0.00
5,300.0	11.00	265.33	5,229.3	-61.3	-749.5	61.7	0.00	0.00	0.00
5,400.0	11.00	265.33	5,327.4	-62.8	-768.5	63.3	0.00	0.00	0.00
5,500.0	11.00	265.33	5,425.6	-64.4	-787.6	64.8	0.00	0.00	0.00
5,600.0	11.00	265.33	5,523.8	-65.9	-806.6	66.4	0.00	0.00	0.00
5,700.0	11.00	265.33	5,621.9	-67.5	-825.6	68.0	0.00	0.00	0.00
5,800.0	11.00	265.33	5,720.1	-69.0	-844.6	69.5	0.00	0.00	0.00
5,900.0	11.00	265.33	5,818.3	-70.6	-863.6	71.1	0.00	0.00	0.00
6,000.0	11.00	265.33	5,916.4	-72.2	-882.6	72.7	0.00	0.00	0.00
6,100.0	11.00	265.33	6,014.6	-73.7	-901.7	74.2	0.00	0.00	0.00
6,200.0	11.00	265.33	6,112.7	-75.3	-920.7	75.8	0.00	0.00	0.00
6,300.0	11.00	265.33	6,210.9	-76.8	-939.7	77.4	0.00	0.00	0.00
6,400.0	11.00	265.33	6,309.1	-78.4	-958.7	78.9	0.00	0.00	0.00
6,500.0	11.00	265.33	6,407.2	-79.9	-977.7	80.5	0.00	0.00	0.00
6,600.0	11.00	265.33	6,505.4	-81.5	-996.8	82.1	0.00	0.00	0.00
6,700.0	11.00	265.33	6,603.6	-83.0	-1,015.8	83.6	0.00	0.00	0.00
6,800.0	11.00	265.33	6,701.7	-84.6	-1,034.8	85.2	0.00	0.00	0.00
6,900.0	11.00	265.33	6,799.9	-86.2	-1,053.8	86.8	0.00	0.00	0.00
7,000.0	11.00	265.33	6,898.0	-87.7	-1,072.8	88.3	0.00	0.00	0.00
7,100.0	11.00	265.33	6,996.2	-89.3	-1,091.9	89.9	0.00	0.00	0.00
7,200.0	11.00	265.33	7,094.4	-90.8	-1,110.9	91.5	0.00	0.00	0.00
7,300.0	11.00	265.33	7,192.5	-92.4	-1,129.9	93.0	0.00	0.00	0.00
7,400.0	11.00	265.33	7,290.7	-93.9	-1,148.9	94.6	0.00	0.00	0.00
7,450.6	11.00	265.33	7,340.3	-94.7	-1,158.5	95.4	0.00	0.00	0.00
7,500.0	10.01	265.33	7,388.9	-95.4	-1,167.5	96.1	2.00	-2.00	0.00
7,600.0	8.01	265.33	7,487.7	-96.7	-1,183.1	97.4	2.00	-2.00	0.00
7,700.0	6.01	265.33	7,586.9	-97.7	-1,195.3	98.4	2.00	-2.00	0.00
7,800.0	4.01	265.33	7,686.6	-98.4	-1,204.0	99.1	2.00	-2.00	0.00
7,900.0	2.01	265.33	7,786.4	-98.9	-1,209.2	99.6	2.00	-2.00	0.00
8,000.6	0.00	0.00	7,887.0	-99.0	-1,211.0	99.7	2.00	-2.00	0.00
8,100.0	0.00	0.00	7,986.4	-99.0	-1,211.0	99.7	0.00	0.00	0.00
8,200.0	0.00	0.00	8,086.4	-99.0	-1,211.0	99.7	0.00	0.00	0.00
8,300.0	0.00	0.00	8,186.4	-99.0	-1,211.0	99.7	0.00	0.00	0.00
8,400.0	0.00	0.00	8,286.4	-99.0	-1,211.0	99.7	0.00	0.00	0.00
8,500.0	0.00	0.00	8,386.4	-99.0	-1,211.0	99.7	0.00	0.00	0.00
8,600.0	0.00	0.00	8,486.4	-99.0	-1,211.0	99.7	0.00	0.00	0.00
8,700.0	0.00	0.00	8,586.4	-99.0	-1,211.0	99.7	0.00	0.00	0.00
8,800.0	0.00	0.00	8,686.4	-99.0	-1,211.0	99.7	0.00	0.00	0.00
8,900.0	0.00	0.00	8,786.4	-99.0	-1,211.0	99.7	0.00	0.00	0.00
9,000.0	0.00	0.00	8,886.4	-99.0	-1,211.0	99.7	0.00	0.00	0.00
9,100.0	0.00	0.00	8,986.4	-99.0	-1,211.0	99.7	0.00	0.00	0.00
9,200.0	0.00	0.00	9,086.4	-99.0	-1,211.0	99.7	0.00	0.00	0.00
9,300.0	0.00	0.00	9,186.4	-99.0	-1,211.0	99.7	0.00	0.00	0.00
9,400.0	0.00	0.00	9,286.4	-99.0	-1,211.0	99.7	0.00	0.00	0.00
9,500.0	0.00	0.00	9,386.4	-99.0	-1,211.0	99.7	0.00	0.00	0.00
9,600.0	0.00	0.00	9,486.4	-99.0	-1,211.0	99.7	0.00	0.00	0.00
9,700.0	0.00	0.00	9,586.4	-99.0	-1,211.0	99.7	0.00	0.00	0.00
9,800.0	0.00	0.00	9,686.4	-99.0	-1,211.0	99.7	0.00	0.00	0.00
9,900.0	0.00	0.00	9,786.4	-99.0	-1,211.0	99.7	0.00	0.00	0.00
10,000.0	0.00	0.00	9,886.4	-99.0	-1,211.0	99.7	0.00	0.00	0.00
10,100.0	0.00	0.00	9,986.4	-99.0	-1,211.0	99.7	0.00	0.00	0.00
10,200.0	0.00	0.00	10,086.4	-99.0	-1,211.0	99.7	0.00	0.00	0.00
10,300.0	0.00	0.00	10,186.4	-99.0	-1,211.0	99.7	0.00	0.00	0.00
10,400.0	0.00	0.00	10,286.4	-99.0	-1,211.0	99.7	0.00	0.00	0.00



Planning Report

Database:	PEDMB	Local Co-ordinate Reference:	Well #520H
Company:	Midland	TVD Reference:	kb = 26' @ 3361.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	kb = 26' @ 3361.0usft
Site:	Osprey 10	North Reference:	Grid
Well:	#520H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1 RT		

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)
10,500.0	0.00	0.00	10,386.4	-99.0	-1,211.0	99.7	0.00	0.00	0.00
10,600.0	0.00	0.00	10,486.4	-99.0	-1,211.0	99.7	0.00	0.00	0.00
10,700.0	0.00	0.00	10,586.4	-99.0	-1,211.0	99.7	0.00	0.00	0.00
10,800.0	0.00	0.00	10,686.4	-99.0	-1,211.0	99.7	0.00	0.00	0.00
10,900.0	0.00	0.00	10,786.4	-99.0	-1,211.0	99.7	0.00	0.00	0.00
11,008.1	0.00	0.00	10,894.5	-99.0	-1,211.0	99.7	0.00	0.00	0.00
11,025.0	2.03	0.00	10,911.4	-98.7	-1,211.0	100.0	12.00	12.00	0.00
11,050.0	5.03	0.00	10,936.3	-97.2	-1,211.0	101.5	12.00	12.00	0.00
11,075.0	8.03	0.00	10,961.2	-94.3	-1,211.0	104.3	12.00	12.00	0.00
11,100.0	11.03	0.00	10,985.8	-90.2	-1,211.0	108.4	12.00	12.00	0.00
11,125.0	14.03	0.00	11,010.2	-84.8	-1,211.0	113.8	12.00	12.00	0.00
11,150.0	17.03	0.00	11,034.3	-78.1	-1,211.0	120.4	12.00	12.00	0.00
11,175.0	20.03	0.00	11,058.0	-70.1	-1,211.0	128.2	12.00	12.00	0.00
11,200.0	23.03	0.00	11,081.3	-61.0	-1,211.0	137.3	12.00	12.00	0.00
11,225.0	26.03	0.00	11,104.0	-50.6	-1,211.0	147.5	12.00	12.00	0.00
11,228.6	26.46	0.00	11,107.2	-49.0	-1,211.0	149.0	12.00	12.00	0.00
11,250.0	29.03	359.96	11,126.2	-39.0	-1,211.0	158.9	12.00	12.00	-0.20
11,275.0	32.03	359.91	11,147.7	-26.3	-1,211.0	171.4	12.00	12.00	-0.17
11,300.0	35.03	359.88	11,168.5	-12.5	-1,211.0	185.1	12.00	12.00	-0.14
11,325.0	38.03	359.85	11,188.6	2.4	-1,211.1	199.7	12.00	12.00	-0.12
11,350.0	41.03	359.82	11,207.9	18.3	-1,211.1	215.4	12.00	12.00	-0.11
11,375.0	44.03	359.79	11,226.3	35.2	-1,211.2	232.1	12.00	12.00	-0.10
11,400.0	47.03	359.77	11,243.8	53.0	-1,211.3	249.7	12.00	12.00	-0.09
11,425.0	50.03	359.75	11,260.4	71.7	-1,211.3	268.2	12.00	12.00	-0.08
11,450.0	53.03	359.74	11,275.9	91.3	-1,211.4	287.5	12.00	12.00	-0.07
11,475.0	56.03	359.72	11,290.5	111.7	-1,211.5	307.6	12.00	12.00	-0.07
11,500.0	59.03	359.70	11,303.9	132.8	-1,211.6	328.5	12.00	12.00	-0.06
11,525.0	62.03	359.69	11,316.2	154.5	-1,211.7	350.0	12.00	12.00	-0.06
11,550.0	65.03	359.68	11,327.3	176.9	-1,211.9	372.1	12.00	12.00	-0.06
11,575.0	68.03	359.66	11,337.3	199.8	-1,212.0	394.7	12.00	12.00	-0.05
11,600.0	71.03	359.65	11,346.0	223.2	-1,212.1	417.8	12.00	12.00	-0.05
11,625.0	74.03	359.64	11,353.5	247.1	-1,212.3	441.4	12.00	12.00	-0.05
11,650.0	77.03	359.63	11,359.8	271.3	-1,212.4	465.3	12.00	12.00	-0.05
11,675.0	80.03	359.61	11,364.7	295.8	-1,212.6	489.5	12.00	12.00	-0.05
11,700.0	83.03	359.60	11,368.4	320.5	-1,212.8	513.9	12.00	12.00	-0.05
11,725.0	86.03	359.59	11,370.8	345.4	-1,212.9	538.5	12.00	12.00	-0.04
11,750.0	89.03	359.58	11,371.9	370.4	-1,213.1	563.1	12.00	12.00	-0.04
11,758.1	90.00	359.58	11,371.9	378.5	-1,213.2	571.1	12.00	12.00	-0.04
11,800.0	90.00	359.58	11,371.9	420.4	-1,213.5	612.5	0.00	0.00	0.00
11,900.0	90.00	359.58	11,371.9	520.4	-1,214.2	711.3	0.00	0.00	0.00
12,000.0	90.00	359.58	11,371.9	620.4	-1,215.0	810.1	0.00	0.00	0.00
12,100.0	90.00	359.58	11,371.9	720.4	-1,215.7	908.9	0.00	0.00	0.00
12,200.0	90.00	359.58	11,371.9	820.3	-1,216.4	1,007.7	0.00	0.00	0.00
12,300.0	90.00	359.58	11,371.9	920.3	-1,217.2	1,106.4	0.00	0.00	0.00
12,400.0	90.00	359.58	11,372.0	1,020.3	-1,217.9	1,205.2	0.00	0.00	0.00
12,500.0	90.00	359.58	11,372.0	1,120.3	-1,218.7	1,304.0	0.00	0.00	0.00
12,600.0	90.00	359.58	11,372.0	1,220.3	-1,219.4	1,402.8	0.00	0.00	0.00
12,700.0	90.00	359.58	11,372.0	1,320.3	-1,220.1	1,501.6	0.00	0.00	0.00
12,800.0	90.00	359.58	11,372.0	1,420.3	-1,220.9	1,600.3	0.00	0.00	0.00
12,900.0	90.00	359.58	11,372.0	1,520.3	-1,221.6	1,699.1	0.00	0.00	0.00
13,000.0	90.00	359.58	11,372.0	1,620.3	-1,222.4	1,797.9	0.00	0.00	0.00
13,100.0	90.00	359.58	11,372.0	1,720.3	-1,223.1	1,896.7	0.00	0.00	0.00
13,200.0	90.00	359.58	11,372.0	1,820.3	-1,223.8	1,995.5	0.00	0.00	0.00
13,300.0	90.00	359.58	11,372.0	1,920.3	-1,224.6	2,094.2	0.00	0.00	0.00



Planning Report

Database:	PEDMB	Local Co-ordinate Reference:	Well #520H
Company:	Midland	TVD Reference:	kb = 26' @ 3361.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	kb = 26' @ 3361.0usft
Site:	Osprey 10	North Reference:	Grid
Well:	#520H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1 RT		

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)	
13,400.0	90.00	359.58	11,372.0	2,020.3	-1,225.3	2,193.0	0.00	0.00	0.00	
13,500.0	90.00	359.58	11,372.0	2,120.3	-1,226.0	2,291.8	0.00	0.00	0.00	
13,600.0	90.00	359.58	11,372.0	2,220.3	-1,226.8	2,390.6	0.00	0.00	0.00	
13,700.0	90.00	359.58	11,372.0	2,320.3	-1,227.5	2,489.4	0.00	0.00	0.00	
13,800.0	90.00	359.58	11,372.0	2,420.3	-1,228.3	2,588.1	0.00	0.00	0.00	
13,900.0	90.00	359.58	11,372.0	2,520.3	-1,229.0	2,686.9	0.00	0.00	0.00	
14,000.0	90.00	359.58	11,372.0	2,620.3	-1,229.7	2,785.7	0.00	0.00	0.00	
14,100.0	90.00	359.58	11,372.0	2,720.3	-1,230.5	2,884.5	0.00	0.00	0.00	
14,200.0	90.00	359.58	11,372.0	2,820.3	-1,231.2	2,983.3	0.00	0.00	0.00	
14,300.0	90.00	359.58	11,372.0	2,920.3	-1,231.9	3,082.0	0.00	0.00	0.00	
14,400.0	90.00	359.58	11,372.0	3,020.3	-1,232.7	3,180.8	0.00	0.00	0.00	
14,500.0	90.00	359.58	11,372.0	3,120.3	-1,233.4	3,279.6	0.00	0.00	0.00	
14,600.0	90.00	359.58	11,372.0	3,220.3	-1,234.2	3,378.4	0.00	0.00	0.00	
14,700.0	90.00	359.58	11,372.0	3,320.3	-1,234.9	3,477.2	0.00	0.00	0.00	
14,800.0	90.00	359.58	11,372.0	3,420.3	-1,235.6	3,575.9	0.00	0.00	0.00	
14,900.0	90.00	359.58	11,372.0	3,520.3	-1,236.4	3,674.7	0.00	0.00	0.00	
15,000.0	90.00	359.58	11,372.0	3,620.3	-1,237.1	3,773.5	0.00	0.00	0.00	
15,100.0	90.00	359.58	11,372.0	3,720.3	-1,237.9	3,872.3	0.00	0.00	0.00	
15,200.0	90.00	359.58	11,372.0	3,820.3	-1,238.6	3,971.1	0.00	0.00	0.00	
15,300.0	90.00	359.58	11,372.0	3,920.3	-1,239.3	4,069.8	0.00	0.00	0.00	
15,400.0	90.00	359.58	11,372.0	4,020.3	-1,240.1	4,168.6	0.00	0.00	0.00	
15,500.0	90.00	359.58	11,372.0	4,120.3	-1,240.8	4,267.4	0.00	0.00	0.00	
15,600.0	90.00	359.58	11,372.0	4,220.3	-1,241.5	4,366.2	0.00	0.00	0.00	
15,700.0	90.00	359.58	11,372.0	4,320.3	-1,242.3	4,465.0	0.00	0.00	0.00	
15,800.0	90.00	359.58	11,372.0	4,420.3	-1,243.0	4,563.7	0.00	0.00	0.00	
15,900.0	90.00	359.58	11,372.0	4,520.2	-1,243.8	4,662.5	0.00	0.00	0.00	
16,000.0	90.00	359.58	11,372.0	4,620.2	-1,244.5	4,761.3	0.00	0.00	0.00	
16,100.0	90.00	359.58	11,372.0	4,720.2	-1,245.2	4,860.1	0.00	0.00	0.00	
16,200.0	90.00	359.58	11,372.0	4,820.2	-1,246.0	4,958.9	0.00	0.00	0.00	
16,300.0	90.00	359.58	11,372.0	4,920.2	-1,246.7	5,057.6	0.00	0.00	0.00	
16,400.0	90.00	359.58	11,372.0	5,020.2	-1,247.4	5,156.4	0.00	0.00	0.00	
16,500.0	90.00	359.58	11,372.0	5,120.2	-1,248.2	5,255.2	0.00	0.00	0.00	
16,600.0	90.00	359.58	11,372.0	5,220.2	-1,248.9	5,354.0	0.00	0.00	0.00	
16,700.0	90.00	359.58	11,372.0	5,320.2	-1,249.7	5,452.8	0.00	0.00	0.00	
16,800.0	90.00	359.58	11,372.0	5,420.2	-1,250.4	5,551.6	0.00	0.00	0.00	
16,900.0	90.00	359.58	11,372.0	5,520.2	-1,251.1	5,650.3	0.00	0.00	0.00	
17,000.0	90.00	359.58	11,372.0	5,620.2	-1,251.9	5,749.1	0.00	0.00	0.00	
17,100.0	90.00	359.58	11,372.0	5,720.2	-1,252.6	5,847.9	0.00	0.00	0.00	
17,200.0	90.00	359.58	11,372.0	5,820.2	-1,253.4	5,946.7	0.00	0.00	0.00	
17,300.0	90.00	359.58	11,372.0	5,920.2	-1,254.1	6,045.5	0.00	0.00	0.00	
17,400.0	90.00	359.58	11,372.0	6,020.2	-1,254.8	6,144.2	0.00	0.00	0.00	
17,500.0	90.00	359.58	11,372.0	6,120.2	-1,255.6	6,243.0	0.00	0.00	0.00	
17,600.0	90.00	359.58	11,372.0	6,220.2	-1,256.3	6,341.8	0.00	0.00	0.00	
17,700.0	90.00	359.58	11,372.0	6,320.2	-1,257.0	6,440.6	0.00	0.00	0.00	
17,800.0	90.00	359.58	11,372.0	6,420.2	-1,257.8	6,539.4	0.00	0.00	0.00	
17,900.0	90.00	359.58	11,372.0	6,520.2	-1,258.5	6,638.1	0.00	0.00	0.00	
18,000.0	90.00	359.58	11,372.0	6,620.2	-1,259.3	6,736.9	0.00	0.00	0.00	
18,100.0	90.00	359.58	11,372.0	6,720.2	-1,260.0	6,835.7	0.00	0.00	0.00	
18,200.0	90.00	359.58	11,372.0	6,820.2	-1,260.7	6,934.5	0.00	0.00	0.00	
18,300.0	90.00	359.58	11,372.0	6,920.2	-1,261.5	7,033.3	0.00	0.00	0.00	
18,400.0	90.00	359.58	11,372.0	7,020.2	-1,262.2	7,132.0	0.00	0.00	0.00	
18,500.0	90.00	359.58	11,372.0	7,120.2	-1,262.9	7,230.8	0.00	0.00	0.00	
18,600.0	90.00	359.58	11,372.0	7,220.2	-1,263.7	7,329.6	0.00	0.00	0.00	
18,700.0	90.00	359.58	11,372.0	7,320.2	-1,264.4	7,428.4	0.00	0.00	0.00	



Planning Report

Database:	PEDMB	Local Co-ordinate Reference:	Well #520H
Company:	Midland	TVD Reference:	kb = 26' @ 3361.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	kb = 26' @ 3361.0usft
Site:	Osprey 10	North Reference:	Grid
Well:	#520H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1 RT		

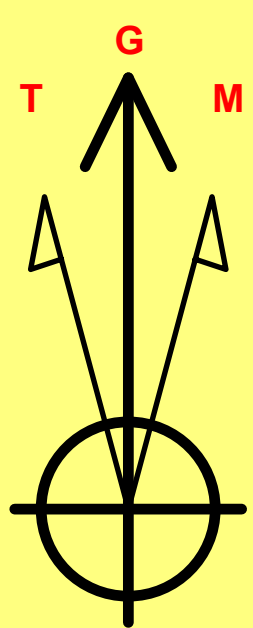
Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
18,800.0	90.00	359.58	11,372.0	7,420.2	-1,265.2	7,527.2	0.00	0.00	0.00	
18,900.0	90.00	359.58	11,372.0	7,520.2	-1,265.9	7,625.9	0.00	0.00	0.00	
19,000.0	90.00	359.58	11,372.0	7,620.2	-1,266.6	7,724.7	0.00	0.00	0.00	
19,048.8	90.00	359.58	11,372.0	7,669.0	-1,267.0	7,773.0	0.00	0.00	0.00	

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
KOP(Osprey 10 #520H) - hit/miss target - Shape - Point	0.00	0.00	10,894.5	-99.0	-1,211.0	414,992.00	810,028.00	32° 8' 16.494 N	103° 27' 54.969 W	
FTP(Osprey 10 #520H) - plan hits target center - Point	0.00	0.00	11,107.2	-49.0	-1,211.0	415,042.00	810,028.00	32° 8' 16.989 N	103° 27' 54.964 W	
PBHL(Osprey 10 #520H) - plan hits target center - Point	0.00	0.00	11,372.0	7,669.0	-1,267.0	422,760.00	809,972.00	32° 9' 33.364 N	103° 27' 54.891 W	

Lea County, NM (NAD 83 NME)

Osprey 10 #520H

Plan #0.1 RT



Azimuths to Grid North
 True North: -0.46°
 Magnetic North: 5.74°

Magnetic Field
 Strength: 47004.4nT
 Dip Angle: 59.70°
 Date: 4/21/2025
 Model: IGRF2025

To convert a Magnetic Direction to a Grid Direction, Add 5.74°
 To convert a Magnetic Direction to a True Direction, Add 6.20° East
 To convert a True Direction to a Grid Direction, Subtract 0.46°

PROJECT DETAILS: Lea County, NM (NAD 83 NME)

Geodetic System: US State Plane 1983
 Datum: North American Datum 1983
 Ellipsoid: GRS 1980
 Zone: New Mexico Eastern Zone
 System Datum: Mean Sea Level

WELL DETAILS: #520H

kb = 26' @ 3361.0usft 3335.0
 Northing Easting Latitude Longitude
 415091.00 811239.00 32° 8' 17.377 N 103° 27' 40.876 W

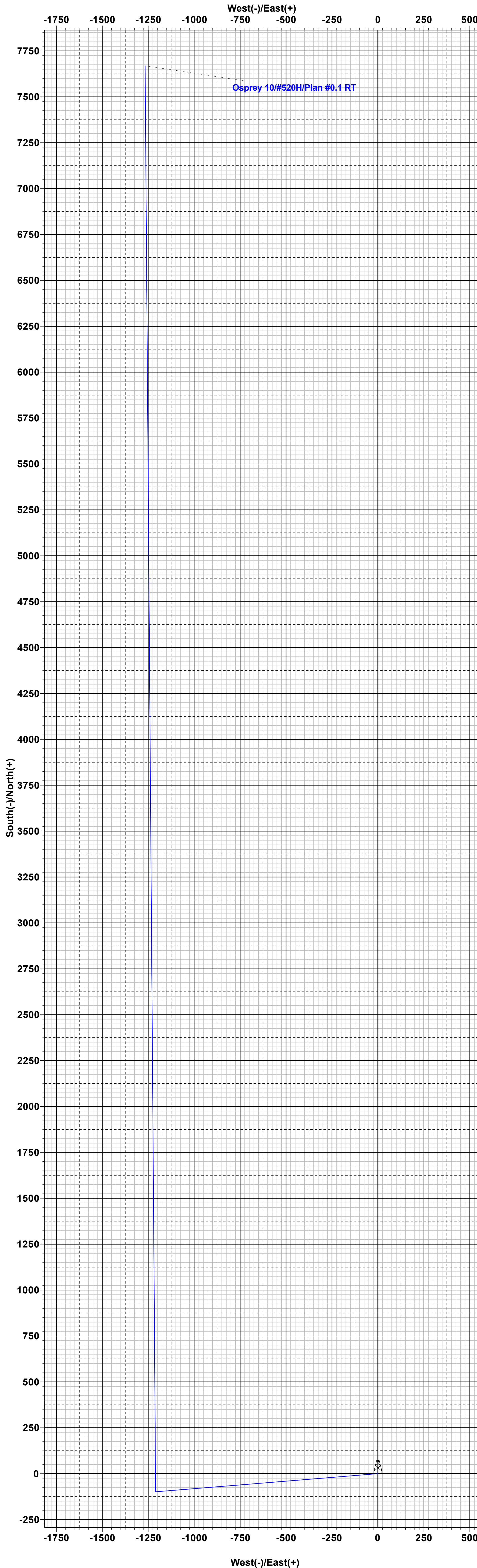
SECTION DETAILS

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	1085.0	0.00	0.00	1085.0	0.0	0.0	0.00	0.00	0.0	
3	1635.1	11.00	265.33	1631.7	-4.3	-52.5	2.00	265.33	4.3	
4	7450.6	11.00	265.33	7340.3	-94.7	-1158.5	0.00	0.00	95.4	
5	8000.6	0.00	0.00	7887.0	-99.0	-1211.0	2.00	180.00	99.7	
6	11008.1	0.00	0.00	10894.5	-99.0	-1211.0	0.00	0.00	99.7	KOP(Osprey 10 #520H)
7	11228.6	26.46	0.00	11107.2	-49.0	-1211.0	12.00	0.00	149.0	FTP(Osprey 10 #520H)
8	11758.1	90.00	359.58	11371.9	378.5	-1213.2	12.00	-0.47	571.1	
9	19048.8	90.00	359.58	11372.0	7669.0	-1267.0	0.00	0.00	7773.0	PBHL(Osprey 10 #520H)

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
KOP(Osprey 10 #520H)	10894.5	-99.0	-1211.0	414992.00	810028.00
FTP(Osprey 10 #520H)	11107.2	-49.0	-1211.0	415042.00	810028.00
PBHL(Osprey 10 #520H)	11372.0	7669.0	-1267.0	422760.00	809972.00

Vertical Section at 350.62°





EOG Batch Casing

Pad Name: Osprey 10

SHL: Section 10, Township 25-S, Range 34-E, LEA County, NM

Well Name	API #	Surface		Intermediate		Production	
		MD	TVD	MD	TVD	MD	TVD
OSPNEY 10 #1H	30-025-*****	985	985	5,179	5,161	16,680	9,100
OSPNEY 10 #111H	30-025-*****	985	985	5,218	5,161	17,108	9,490
OSPNEY 10 #112H	30-025-*****	985	985	5,173	5,161	17,065	9,490
OSPNEY 10 #113H	30-025-*****	985	985	5,260	5,161	17,150	9,490
OSPNEY 10 #510H (501H)	30-025-53056	985	985	5,223	5,161	18,863	11,240
OSPNEY 10 #511H (502H)	30-025-53057	985	985	5,163	5,161	18,805	11,240
OSPNEY 10 #512H	30-025-*****	985	985	5,461	5,161	19,077	11,240
OSPNEY 10 #520H (101H)	30-025-53053	985	985	5,280	5,161	19,049	11,372
OSPNEY 10 #521H (102H)	30-025-53054	985	985	5,178	5,161	18,952	11,372
OSPNEY 10 #522H	30-025-*****	985	985	5,640	5,161	19,354	11,372
OSPNEY 10 #523H	30-025-*****	985	985	5,352	5,161	19,114	11,372
OSPNEY 10 #524H	30-025-*****	985	985	5,378	5,161	19,138	11,372
OSPNEY 10 #581H	30-025-*****	985	985	5,472	5,161	19,694	11,848
OSPNEY 10 #597H	30-025-*****	985	985	11,671	11,472	19,655	11,904
OSPNEY 10 #613H	30-025-*****	985	985	11,711	11,472	19,800	12,015
OSPNEY 10 #614H	30-025-*****	985	985	11,717	11,472	19,806	12,015



EOG Batch Casing

GEOLOGIC NAME OF SURFACE FORMATION:

Permian

ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

Rustler	875'
Tamarisk Anhydrite	960'
Top of Salt	1,255'
Base of Salt	5,061'
Lamar	5,323'
Bell Canyon	5,346'
Cherry Canyon	6,301'
Brushy Canyon	7,887'
Bone Spring Lime	9,298'
Leonard (Avalon) Shale	9,335'
1st Bone Spring Sand	10,317'
2nd Bone Spring Shale	10,533'
2nd Bone Spring Sand	10,836'
3rd Bone Spring Carb	11,372'
3rd Bone Spring Sand	11,904'

ESTIMATED DEPTHS OF ANTICIPATED FRESH WATER, OIL OR GAS:

Upper Permian Sands	0- 400'	Fresh Water
Bell Canyon	5,346'	Oil
Cherry Canyon	6,301'	Oil
Brushy Canyon	7,887'	Oil
Leonard (Avalon) Shale	9,335'	Oil
1st Bone Spring Sand	10,317'	Oil
2nd Bone Spring Shale	10,533'	Oil
2nd Bone Spring Sand	10,836'	Oil

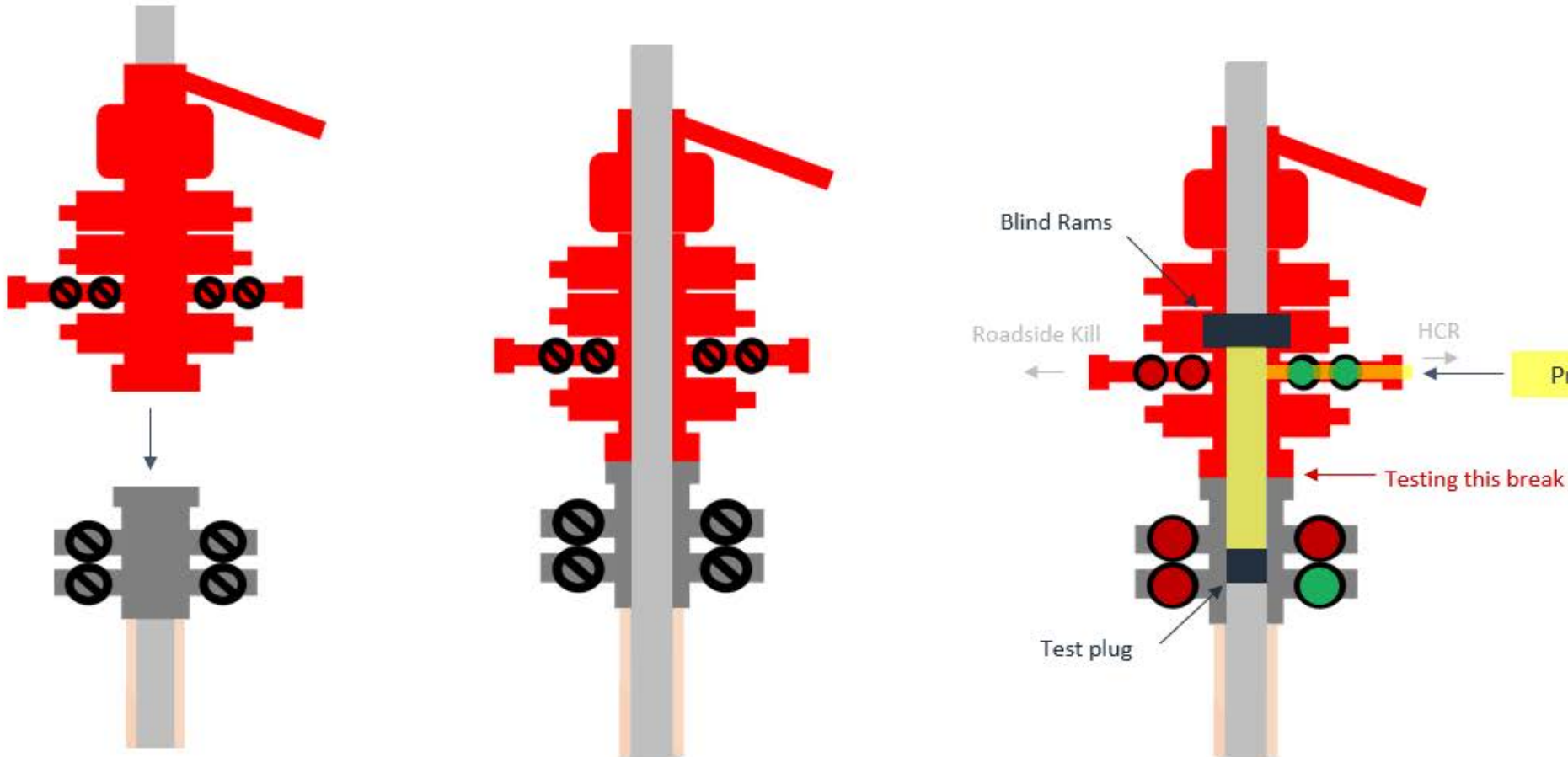
No other Formations are expected to give up oil, gas or fresh water in measurable quantities. Surface fresh water sands will be protected by setting surface casing at 990' and circulating cement back to surface.

**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.

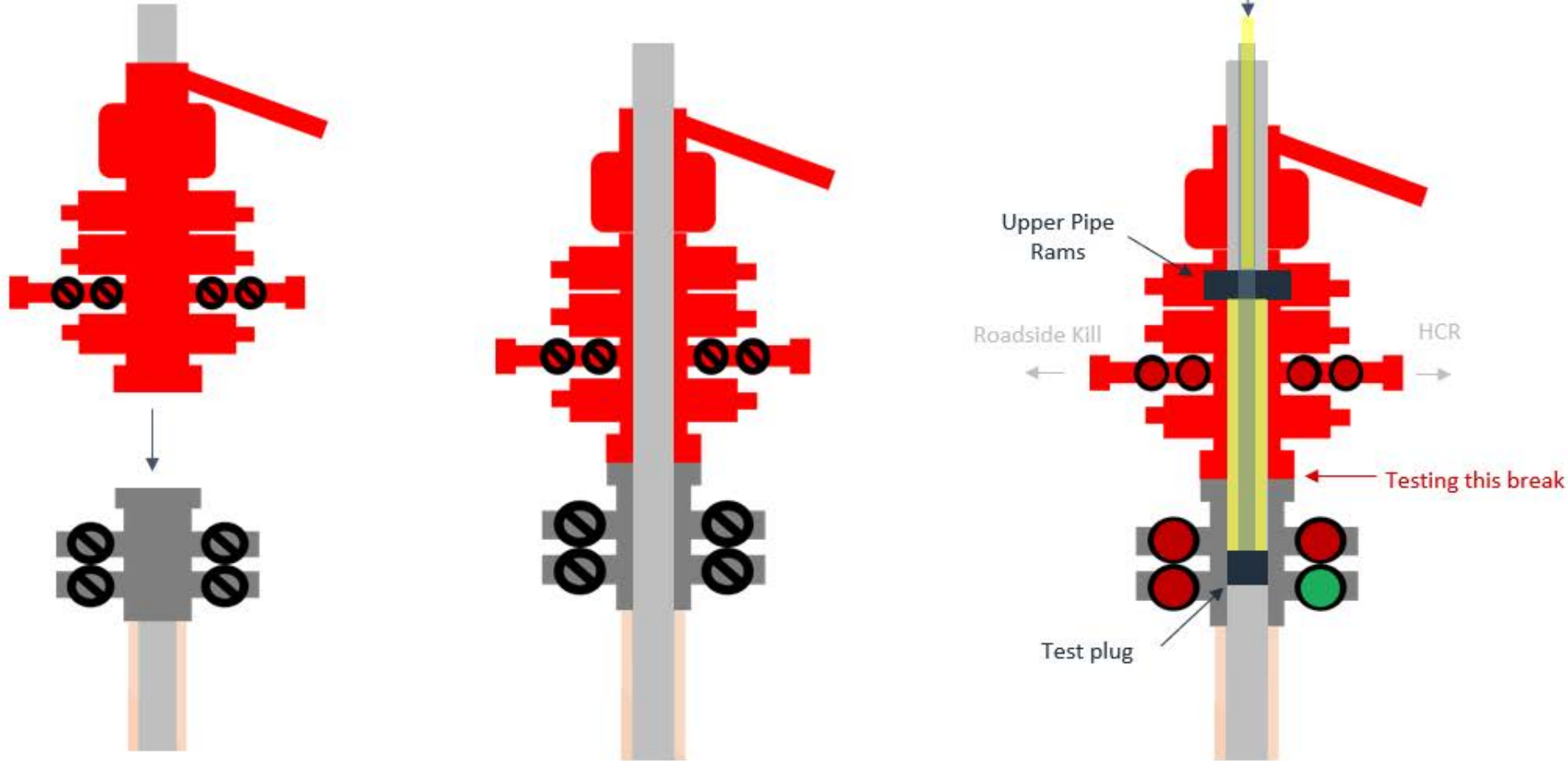
Break Test Diagram (HCR valve)



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

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

CONDITIONS

Action 455724

CONDITIONS

Operator: EOG RESOURCES INC 5509 Champions Drive Midland, TX 79706	OGRID: 7377
	Action Number: 455724
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
matthew.gomez	Any previous COA's not addressed within the updated COA's still apply.	5/9/2025
matthew.gomez	Cement is required to circulate on both surface and intermediate1 strings of casing.	5/9/2025