

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

Form C-101

August 1, 2011

Permit 347151

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

1. Operator Name and Address EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702		2. OGRID Number 7377
		3. API Number 30-025-51828
4. Property Code 325384	5. Property Name DURANGO 2 STATE	6. Well No. 222H

7. Surface Location

UL - Lot B	Section 2	Township 25S	Range 33E	Lot Idn 2	Feet From 300	N/S Line N	Feet From 2117	E/W Line E	County Lea
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8. Proposed Bottom Hole Location

UL - Lot P	Section 2	Township 25S	Range 33E	Lot Idn P	Feet From 100	N/S Line S	Feet From 1310	E/W Line E	County Lea
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9. Pool Information

RED HILLS;LOWER BONE SPRING	51020
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Additional Well Information

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type State	15. Ground Level Elevation 3497
16. Multiple N	17. Proposed Depth 15082	18. Formation Bone Spring	19. Contractor	20. Spud Date 8/24/2023
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

☒ We will be using a closed-loop system in lieu of lined pits**21. Proposed Casing and Cement Program**

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	16	13.375	54.5	1320	460	0
Int1	11	9.625	40	5141	1130	0
Prod	6.75	5.5	17	15082	810	4580

Casing/Cement Program: Additional Comments

EOG respectfully requests the option to use the casing and cement program described in Design B of the drill plan. The NMOCDD will be notified of EOG's election at spud.

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Double Ram	5000	3000	

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify I have complied with 19.15.14.9 (A) NMAC ☒ and/or 19.15.14.9 (B) NMAC ☒ if applicable.	OIL CONSERVATION DIVISION	
Signature:		
Printed Name: Electronically filed by Kay Maddox	Approved By: Paul F Kautz	
Title: Regulatory Agent	Title: Geologist	
Email Address: kay_maddox@eogresources.com	Approved Date: 8/11/2023	Expiration Date: 8/11/2025
Date: 8/10/2023	Phone: 432-686-3658	Conditions of Approval Attached

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office
☐ AMENDED REPORT

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

Form APD Conditions

Permit 347151

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: EOG RESOURCES INC [7377] P.O. Box 2267 Midland, TX 79702	API Number: 30-025-51828
	Well: DURANGO 2 STATE #222H

OCD Reviewer	Condition
pkautz	Notify OCD 24 hours prior to casing & cement
pkautz	Will require a File As Drilled C-102 and a Directional Survey with the C-104
pkautz	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string
pkautz	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system
pkautz	Cement is required to circulate on both surface and intermediate1 strings of casing
pkautz	The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud
pkautz	IF ON ANY STRING CEMENT DOES NOT CIRCULATE, A CBL MUST BE RUN ON THAT STRING OF CASING.

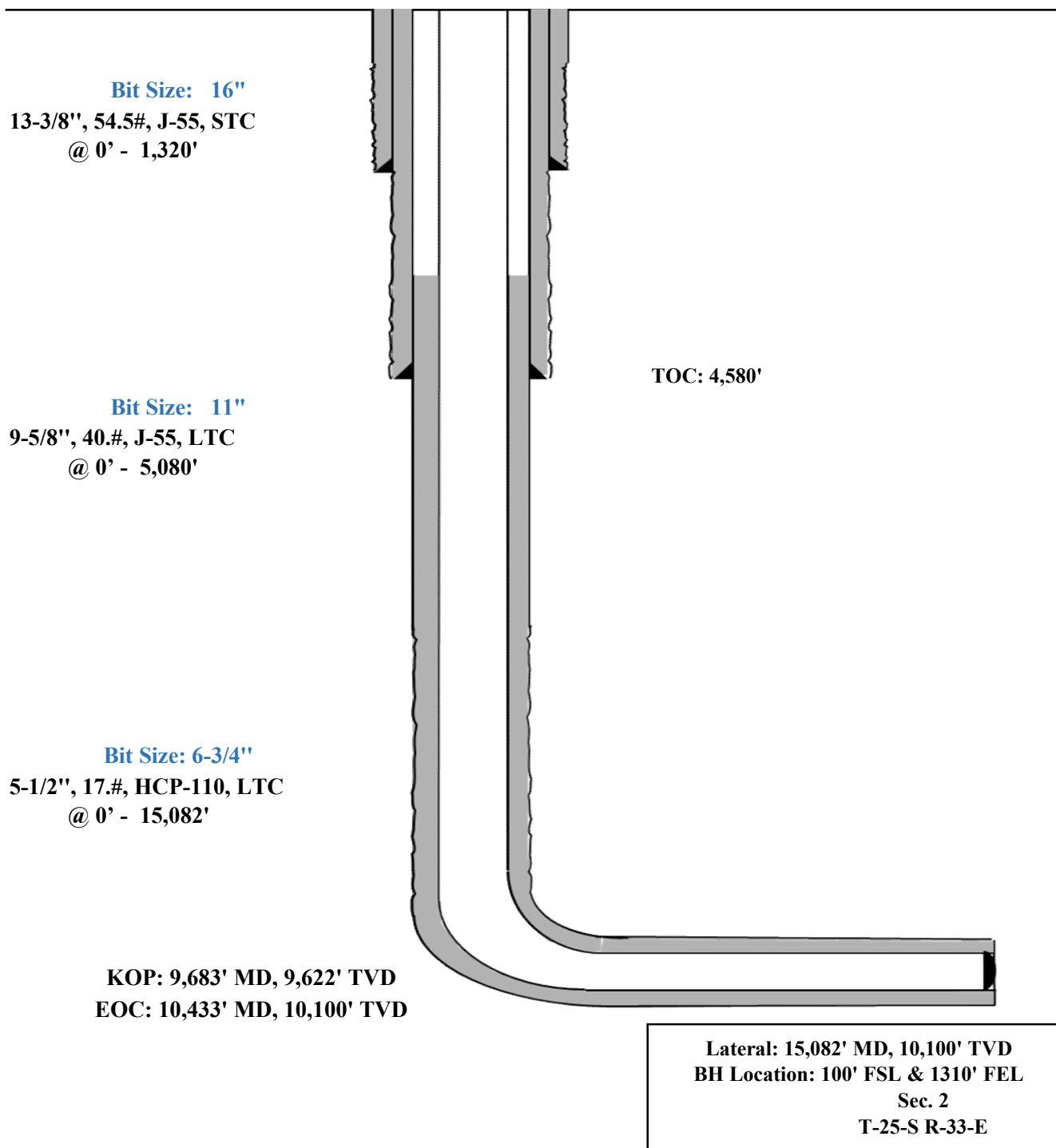


Durango 2 State #222H
Lea County, New Mexico
Proposed Wellbore
Design A

300' FNL
2117' FEL
Section 2
T-25-S, R-33-E

KB: 3522'
GL: 3497'

API: 30-025-*****



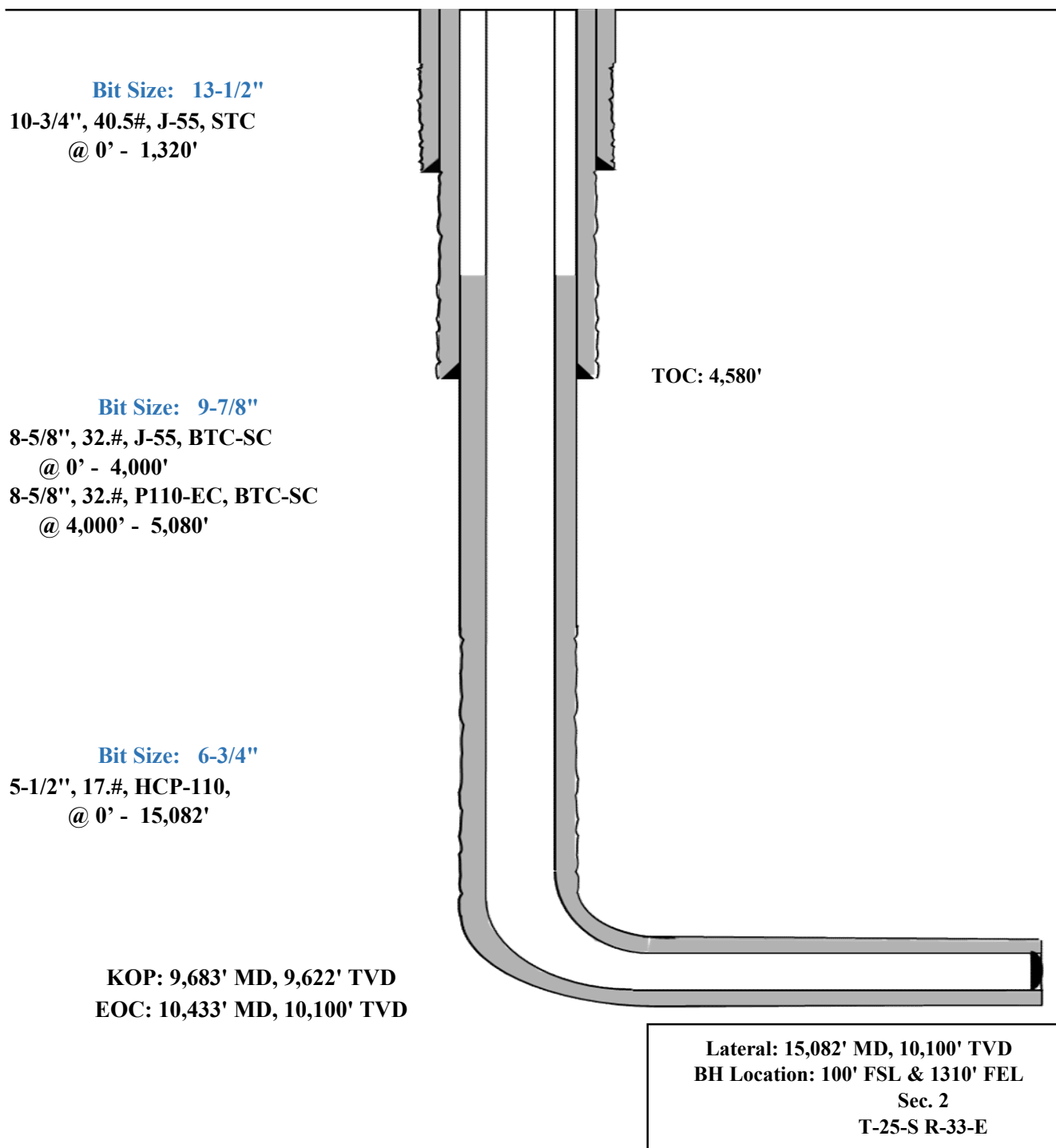


Durango 2 State #222H
Lea County, New Mexico
Proposed Wellbore
Design B

300' FNL
2117' FEL
Section 2
T-25-S, R-33-E

KB: 3522'
GL: 3497'

API: 30-025-*****



**Durango 2 State #222H****Permit Information:**

Well Name: Durango 2 State #222H

Location:

SHL: 300' FNL & 2117' FEL, Section 2, T-25-S, R-33-E, Lea Co., N.M.

BHL: 100' FSL & 1310' FEL, Section 2, T-25-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)				
16"	0	1,320	0	1,320	13-3/8"	54.5#	J-55	STC
11"	0	5,141	0	5,080	9-5/8"	40#	J-55	LTC
6-3/4"	0	15,082	0	10,100	5-1/2"	17#	HCP-110	LTC

Cement Program:

Depth	No. Sacks	Wt. ppg	Yld Ft3/sk	Slurry Description
1,320'	380	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
5,140'	520	12.7	1.11	Tail: Class C + 10% NaCl + 6% Bentonite Gel + 3% MagOx (TOC @ Surface)
	610	14.8	1.5	Lead: Class C + 3% CaCl ₂ + 3% Microbond (TOC @ 4,064')
15,082'	420	10.5	3.21	Lead: Class C + 3% CaCl ₂ + 3% Microbond (TOC @ 4,580')
	390	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' – 5,080'	Brine	8.6-8.8	28-34	N/c
5,080' – 15,082' Lateral	Oil Base	8.8-9.5	58-68	N/c - 6



Durango 2 State #222H

Design B**CASING PROGRAM**

Hole Size	Interval MD		Interval TVD		Csg OD	Weight	Grade	Conn
	From (ft)	To (ft)	From (ft)	To (ft)				
13-1/2"	0	1,320	0	1,320	10-3/4"	40.5#	J-55	STC
9-7/8"	0	4,063	0	4,000	8-5/8"	32#	J-55	BTC-SC
9-7/8"	4,063	5,143	4,000	5,080	8-5/8"	32#	P110-EC	BTC-SC
6-3/4"	0	15,082	0	10,100	5-1/2"	17#	HCP-110	LTC

Cementing Program:

Depth	No. Sacks	Wt. ppg	Yld Ft3/sk	Slurry Description
1,320'	360	13.5	1.73	Class C + 4.0% Bentonite + 0.6% CD-32 + 0.5% CaCl2 + 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
4,060'	280	12.7	1.11	Tail: Class C + 10% NaCl + 6% Bentonite Gel + 3% MagOx (TOC @ Surface)
	1000	14.8	1.5	Lead: Class C + 3% CaCl2 + 3% Microbond (TOC @ 4,064')
15,082'	300	10.5	3.21	Lead: Class C + 3% CaCl2 + 3% Microbond (TOC @ 4,580')
	580	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' – 5,080'	Brine	8.6-8.8	28-34	N/c
5,080' – 15,082' Lateral	Oil Base	8.8-9.5	58-68	N/c - 6



Durango 2 State 222H

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.

**Durango 2 State #222H****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.



Durango 2 State #222H

■ 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.



Durango 2 State #222H
Emergency Assistance Telephone List

PUBLIC SAFETY: **911 or**

Lea County Sheriff's Department		(575) 396-3611
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Rod Coffman

Fire Department:

Carlsbad		(575) 885-3125
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Artesia		(575) 746-5050
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Hospitals:

Carlsbad		(575) 887-4121
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Artesia		(575) 748-3333
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Hobbs		(575) 392-1979
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Dept. of Public Safety/Carlsbad		(575) 748-9718
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Highway Department		(575) 885-3281
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New Mexico Oil Conservation		(575) 476-3440
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NMOCD Inspection Group - South		(575) 626-0830
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U.S. Dept. of Labor		(575) 887-1174
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EOG Resources, Inc.

EOG / Midland	Office	(432) 686-3600
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Company Drilling Consultants:

David Dominique	Cell	(985) 518-5839
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Mike Vann	Cell	(817) 980-5507
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Drilling Engineer

Stephen Davis	Cell	(432) 235-9789
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Matt Day	Cell	(432) 296-4456
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Drilling Manager

Branden Keener	Office	(432) 686-3752
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	Cell	(210) 294-3729
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Drilling Superintendent

Steve Kelly	Office	(432) 686-3706
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	Cell	(210) 416-7894
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H&P Drilling

H&P Drilling	Office	(432) 563-5757
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H&P 651 Drilling Rig	Rig	(903) 509-7131
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Tool Pusher:

Johnathan Craig	Cell	(817) 760-6374
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Brad Garrett

Safety:

Brian Chandler (HSE Manager)	Office	(432) 686-3695
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	Cell	(817) 239-0251
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Midland

Lea County, NM (NAD 83 NME)

Durango 2 State

#222H

OH

Plan: Plan #0.1

Standard Planning Report

07 August, 2023



Planning Report

Database:	PEDM	Local Co-ordinate Reference:	Well #222H
Company:	Midland	TVD Reference:	kb=25 @ 3522.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	kb=25 @ 3522.0usft
Site:	Durango 2 State	North Reference:	Grid
Well:	#222H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

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	Durango 2 State				
Site Position:		Northing:	425,051.00 usft	Latitude:	32° 9' 58.041 N
From:	Map	Easting:	783,515.00 usft	Longitude:	103° 33' 2.454 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "		

Well	#222H					
Well Position	+N/-S	0.0 usft	Northing:	425,028.00 usft	Latitude:	32° 9' 57.606 N
	+E/-W	0.0 usft	Easting:	786,381.00 usft	Longitude:	103° 32' 29.115 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,497.0 usft
Grid Convergence:		0.42 °				

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	8/7/2023	6.27	59.78	47,238.44349217

Design	Plan #0.1				
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	170.30	

Plan Survey Tool Program	Date	8/7/2023			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.0	15,081.8 Plan #0.1 (OH)	EOG MWD+IFR1		
			MWD + IFR1		



Planning Report

Database:	PEDM	Local Co-ordinate Reference:	Well #222H
Company:	Midland	TVD Reference:	kb=25 @ 3522.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	kb=25 @ 3522.0usft
Site:	Durango 2 State	North Reference:	Grid
Well:	#222H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

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	
1,696.0	0.00	0.00	1,696.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,117.6	8.43	72.42	2,116.1	9.4	29.5	2.00	2.00	0.00	72.42	
7,454.1	8.43	72.42	7,394.9	245.6	775.5	0.00	0.00	0.00	0.00	
7,875.7	0.00	0.00	7,815.0	255.0	805.0	2.00	-2.00	0.00	180.00	
9,683.2	0.00	0.00	9,622.5	255.0	805.0	0.00	0.00	0.00	0.00	KOP(Durango 2 State
9,903.7	26.46	178.85	9,835.2	205.0	806.0	12.00	12.00	81.13	178.85	FTP(Durango 2 State
10,433.2	90.00	179.72	10,099.9	-222.4	810.1	12.00	12.00	0.16	0.96	
15,081.8	90.00	179.72	10,100.0	-4,871.0	833.0	0.00	0.00	0.00	0.00	PBHL(Durango 2 Stat



Planning Report

Database:	PEDM	Local Co-ordinate Reference:	Well #222H
Company:	Midland	TVD Reference:	kb=25 @ 3522.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	kb=25 @ 3522.0usft
Site:	Durango 2 State	North Reference:	Grid
Well:	#222H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

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
1,696.0	0.00	0.00	1,696.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.08	72.42	1,700.0	0.0	0.0	0.0	2.00	2.00	0.00
1,800.0	2.08	72.42	1,800.0	0.6	1.8	-0.3	2.00	2.00	0.00
1,900.0	4.08	72.42	1,899.8	2.2	6.9	-1.0	2.00	2.00	0.00
2,000.0	6.08	72.42	1,999.4	4.9	15.4	-2.2	2.00	2.00	0.00
2,100.0	8.08	72.42	2,098.7	8.6	27.1	-3.9	2.00	2.00	0.00
2,117.6	8.43	72.42	2,116.1	9.4	29.5	-4.2	2.00	2.00	0.00
2,200.0	8.43	72.42	2,197.6	13.0	41.0	-5.9	0.00	0.00	0.00
2,300.0	8.43	72.42	2,296.5	17.4	55.0	-7.9	0.00	0.00	0.00
2,400.0	8.43	72.42	2,395.4	21.9	69.0	-9.9	0.00	0.00	0.00
2,500.0	8.43	72.42	2,494.3	26.3	83.0	-11.9	0.00	0.00	0.00
2,600.0	8.43	72.42	2,593.3	30.7	97.0	-13.9	0.00	0.00	0.00
2,700.0	8.43	72.42	2,692.2	35.1	110.9	-15.9	0.00	0.00	0.00
2,800.0	8.43	72.42	2,791.1	39.6	124.9	-17.9	0.00	0.00	0.00
2,900.0	8.43	72.42	2,890.0	44.0	138.9	-20.0	0.00	0.00	0.00
3,000.0	8.43	72.42	2,988.9	48.4	152.9	-22.0	0.00	0.00	0.00
3,100.0	8.43	72.42	3,087.9	52.9	166.8	-24.0	0.00	0.00	0.00
3,200.0	8.43	72.42	3,186.8	57.3	180.8	-26.0	0.00	0.00	0.00
3,300.0	8.43	72.42	3,285.7	61.7	194.8	-28.0	0.00	0.00	0.00
3,400.0	8.43	72.42	3,384.6	66.1	208.8	-30.0	0.00	0.00	0.00
3,500.0	8.43	72.42	3,483.5	70.6	222.8	-32.0	0.00	0.00	0.00
3,600.0	8.43	72.42	3,582.5	75.0	236.7	-34.0	0.00	0.00	0.00
3,700.0	8.43	72.42	3,681.4	79.4	250.7	-36.0	0.00	0.00	0.00
3,800.0	8.43	72.42	3,780.3	83.8	264.7	-38.0	0.00	0.00	0.00
3,900.0	8.43	72.42	3,879.2	88.3	278.7	-40.0	0.00	0.00	0.00
4,000.0	8.43	72.42	3,978.1	92.7	292.6	-42.0	0.00	0.00	0.00
4,100.0	8.43	72.42	4,077.1	97.1	306.6	-44.1	0.00	0.00	0.00
4,200.0	8.43	72.42	4,176.0	101.6	320.6	-46.1	0.00	0.00	0.00
4,300.0	8.43	72.42	4,274.9	106.0	334.6	-48.1	0.00	0.00	0.00
4,400.0	8.43	72.42	4,373.8	110.4	348.6	-50.1	0.00	0.00	0.00
4,500.0	8.43	72.42	4,472.7	114.8	362.5	-52.1	0.00	0.00	0.00
4,600.0	8.43	72.42	4,571.6	119.3	376.5	-54.1	0.00	0.00	0.00
4,700.0	8.43	72.42	4,670.6	123.7	390.5	-56.1	0.00	0.00	0.00
4,800.0	8.43	72.42	4,769.5	128.1	404.5	-58.1	0.00	0.00	0.00
4,900.0	8.43	72.42	4,868.4	132.6	418.5	-60.1	0.00	0.00	0.00
5,000.0	8.43	72.42	4,967.3	137.0	432.4	-62.1	0.00	0.00	0.00
5,100.0	8.43	72.42	5,066.2	141.4	446.4	-64.1	0.00	0.00	0.00



Planning Report

Database:	PEDM	Local Co-ordinate Reference:	Well #222H
Company:	Midland	TVD Reference:	kb=25 @ 3522.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	kb=25 @ 3522.0usft
Site:	Durango 2 State	North Reference:	Grid
Well:	#222H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

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	8.43	72.42	5,165.2	145.8	460.4	-66.1	0.00	0.00	0.00
5,300.0	8.43	72.42	5,264.1	150.3	474.4	-68.2	0.00	0.00	0.00
5,400.0	8.43	72.42	5,363.0	154.7	488.3	-70.2	0.00	0.00	0.00
5,500.0	8.43	72.42	5,461.9	159.1	502.3	-72.2	0.00	0.00	0.00
5,600.0	8.43	72.42	5,560.8	163.5	516.3	-74.2	0.00	0.00	0.00
5,700.0	8.43	72.42	5,659.8	168.0	530.3	-76.2	0.00	0.00	0.00
5,800.0	8.43	72.42	5,758.7	172.4	544.3	-78.2	0.00	0.00	0.00
5,900.0	8.43	72.42	5,857.6	176.8	558.2	-80.2	0.00	0.00	0.00
6,000.0	8.43	72.42	5,956.5	181.3	572.2	-82.2	0.00	0.00	0.00
6,100.0	8.43	72.42	6,055.4	185.7	586.2	-84.2	0.00	0.00	0.00
6,200.0	8.43	72.42	6,154.4	190.1	600.2	-86.2	0.00	0.00	0.00
6,300.0	8.43	72.42	6,253.3	194.5	614.2	-88.2	0.00	0.00	0.00
6,400.0	8.43	72.42	6,352.2	199.0	628.1	-90.2	0.00	0.00	0.00
6,500.0	8.43	72.42	6,451.1	203.4	642.1	-92.3	0.00	0.00	0.00
6,600.0	8.43	72.42	6,550.0	207.8	656.1	-94.3	0.00	0.00	0.00
6,700.0	8.43	72.42	6,649.0	212.3	670.1	-96.3	0.00	0.00	0.00
6,800.0	8.43	72.42	6,747.9	216.7	684.0	-98.3	0.00	0.00	0.00
6,900.0	8.43	72.42	6,846.8	221.1	698.0	-100.3	0.00	0.00	0.00
7,000.0	8.43	72.42	6,945.7	225.5	712.0	-102.3	0.00	0.00	0.00
7,100.0	8.43	72.42	7,044.6	230.0	726.0	-104.3	0.00	0.00	0.00
7,200.0	8.43	72.42	7,143.5	234.4	740.0	-106.3	0.00	0.00	0.00
7,300.0	8.43	72.42	7,242.5	238.8	753.9	-108.3	0.00	0.00	0.00
7,400.0	8.43	72.42	7,341.4	243.3	767.9	-110.3	0.00	0.00	0.00
7,454.1	8.43	72.42	7,394.9	245.6	775.5	-111.4	0.00	0.00	0.00
7,500.0	7.51	72.42	7,440.4	247.6	781.5	-112.3	2.00	-2.00	0.00
7,600.0	5.51	72.42	7,539.7	251.0	792.4	-113.8	2.00	-2.00	0.00
7,700.0	3.51	72.42	7,639.4	253.4	799.9	-114.9	2.00	-2.00	0.00
7,800.0	1.51	72.42	7,739.3	254.7	804.0	-115.5	2.00	-2.00	0.00
7,875.7	0.00	0.00	7,815.0	255.0	805.0	-115.7	2.00	-2.00	0.00
7,900.0	0.00	0.00	7,839.3	255.0	805.0	-115.7	0.00	0.00	0.00
8,000.0	0.00	0.00	7,939.3	255.0	805.0	-115.7	0.00	0.00	0.00
8,100.0	0.00	0.00	8,039.3	255.0	805.0	-115.7	0.00	0.00	0.00
8,200.0	0.00	0.00	8,139.3	255.0	805.0	-115.7	0.00	0.00	0.00
8,300.0	0.00	0.00	8,239.3	255.0	805.0	-115.7	0.00	0.00	0.00
8,400.0	0.00	0.00	8,339.3	255.0	805.0	-115.7	0.00	0.00	0.00
8,500.0	0.00	0.00	8,439.3	255.0	805.0	-115.7	0.00	0.00	0.00
8,600.0	0.00	0.00	8,539.3	255.0	805.0	-115.7	0.00	0.00	0.00
8,700.0	0.00	0.00	8,639.3	255.0	805.0	-115.7	0.00	0.00	0.00
8,800.0	0.00	0.00	8,739.3	255.0	805.0	-115.7	0.00	0.00	0.00
8,900.0	0.00	0.00	8,839.3	255.0	805.0	-115.7	0.00	0.00	0.00
9,000.0	0.00	0.00	8,939.3	255.0	805.0	-115.7	0.00	0.00	0.00
9,100.0	0.00	0.00	9,039.3	255.0	805.0	-115.7	0.00	0.00	0.00
9,200.0	0.00	0.00	9,139.3	255.0	805.0	-115.7	0.00	0.00	0.00
9,300.0	0.00	0.00	9,239.3	255.0	805.0	-115.7	0.00	0.00	0.00
9,400.0	0.00	0.00	9,339.3	255.0	805.0	-115.7	0.00	0.00	0.00
9,500.0	0.00	0.00	9,439.3	255.0	805.0	-115.7	0.00	0.00	0.00
9,600.0	0.00	0.00	9,539.3	255.0	805.0	-115.7	0.00	0.00	0.00
9,683.2	0.00	0.00	9,622.5	255.0	805.0	-115.7	0.00	0.00	0.00
KOP(Durango 2 State #222H)									
9,700.0	2.01	178.85	9,639.3	254.7	805.0	-115.4	12.00	12.00	0.00
9,725.0	5.02	178.85	9,664.2	253.2	805.0	-113.8	12.00	12.00	0.00
9,750.0	8.02	178.85	9,689.1	250.3	805.1	-111.0	12.00	12.00	0.00
9,775.0	11.02	178.85	9,713.7	246.2	805.2	-107.0	12.00	12.00	0.00



Planning Report

Database:	PEDM	Local Co-ordinate Reference:	Well #222H
Company:	Midland	TVD Reference:	kb=25 @ 3522.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	kb=25 @ 3522.0usft
Site:	Durango 2 State	North Reference:	Grid
Well:	#222H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

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)
9,800.0	14.02	178.85	9,738.1	240.8	805.3	-101.6	12.00	12.00	0.00
9,825.0	17.02	178.85	9,762.2	234.1	805.4	-95.0	12.00	12.00	0.00
9,850.0	20.02	178.85	9,785.9	226.2	805.6	-87.1	12.00	12.00	0.00
9,875.0	23.02	178.85	9,809.2	217.0	805.8	-78.1	12.00	12.00	0.00
9,900.0	26.02	178.85	9,831.9	206.6	806.0	-67.8	12.00	12.00	0.00
9,903.7	26.46	178.85	9,835.2	205.0	806.0	-66.2	12.00	12.00	0.00
FTP(Durango 2 State #222H)									
9,925.0	29.02	178.94	9,854.1	195.1	806.2	-56.4	12.00	12.00	0.42
9,950.0	32.02	179.03	9,875.6	182.4	806.4	-43.8	12.00	12.00	0.35
9,975.0	35.02	179.10	9,896.4	168.6	806.6	-30.2	12.00	12.00	0.30
10,000.0	38.02	179.17	9,916.5	153.7	806.9	-15.5	12.00	12.00	0.25
10,025.0	41.02	179.22	9,935.8	137.8	807.1	0.2	12.00	12.00	0.22
10,050.0	44.02	179.27	9,954.2	120.9	807.3	16.9	12.00	12.00	0.20
10,075.0	47.02	179.32	9,971.8	103.1	807.5	34.5	12.00	12.00	0.18
10,100.0	50.02	179.36	9,988.3	84.3	807.7	53.0	12.00	12.00	0.16
10,125.0	53.02	179.39	10,003.9	64.8	808.0	72.3	12.00	12.00	0.15
10,150.0	56.02	179.43	10,018.4	44.4	808.2	92.4	12.00	12.00	0.14
10,175.0	59.02	179.46	10,031.8	23.3	808.4	113.3	12.00	12.00	0.13
10,200.0	62.02	179.49	10,044.1	1.6	808.6	134.7	12.00	12.00	0.12
10,225.0	65.02	179.52	10,055.2	-20.8	808.8	156.8	12.00	12.00	0.11
10,250.0	68.02	179.54	10,065.2	-43.7	809.0	179.5	12.00	12.00	0.11
10,275.0	71.02	179.57	10,074.0	-67.1	809.1	202.6	12.00	12.00	0.10
10,300.0	74.02	179.59	10,081.5	-91.0	809.3	226.1	12.00	12.00	0.10
10,325.0	77.02	179.62	10,087.7	-115.2	809.5	250.0	12.00	12.00	0.10
10,350.0	80.02	179.64	10,092.7	-139.7	809.6	274.2	12.00	12.00	0.09
10,375.0	83.02	179.67	10,096.4	-164.4	809.8	298.5	12.00	12.00	0.09
10,400.0	86.02	179.69	10,098.8	-189.3	809.9	323.1	12.00	12.00	0.09
10,425.0	89.02	179.71	10,099.9	-214.3	810.1	347.7	12.00	12.00	0.09
10,433.2	90.00	179.72	10,099.9	-222.4	810.1	355.8	12.00	12.00	0.09
10,500.0	90.00	179.72	10,099.9	-289.3	810.4	421.7	0.00	0.00	0.00
10,600.0	90.00	179.72	10,099.9	-389.3	810.9	520.4	0.00	0.00	0.00
10,700.0	90.00	179.72	10,099.9	-489.3	811.4	619.0	0.00	0.00	0.00
10,800.0	90.00	179.72	10,099.9	-589.2	811.9	717.7	0.00	0.00	0.00
10,900.0	90.00	179.72	10,099.9	-689.2	812.4	816.3	0.00	0.00	0.00
11,000.0	90.00	179.72	10,099.9	-789.2	812.9	915.0	0.00	0.00	0.00
11,100.0	90.00	179.72	10,099.9	-889.2	813.4	1,013.6	0.00	0.00	0.00
11,200.0	90.00	179.72	10,099.9	-989.2	813.9	1,112.3	0.00	0.00	0.00
11,300.0	90.00	179.72	10,099.9	-1,089.2	814.4	1,210.9	0.00	0.00	0.00
11,400.0	90.00	179.72	10,099.9	-1,189.2	814.9	1,309.6	0.00	0.00	0.00
11,500.0	90.00	179.72	10,099.9	-1,289.2	815.3	1,408.2	0.00	0.00	0.00
11,600.0	90.00	179.72	10,099.9	-1,389.2	815.8	1,506.9	0.00	0.00	0.00
11,700.0	90.00	179.72	10,099.9	-1,489.2	816.3	1,605.5	0.00	0.00	0.00
11,800.0	90.00	179.72	10,099.9	-1,589.2	816.8	1,704.2	0.00	0.00	0.00
11,900.0	90.00	179.72	10,099.9	-1,689.2	817.3	1,802.8	0.00	0.00	0.00
12,000.0	90.00	179.72	10,099.9	-1,789.2	817.8	1,901.5	0.00	0.00	0.00
12,100.0	90.00	179.72	10,099.9	-1,889.2	818.3	2,000.1	0.00	0.00	0.00
12,200.0	90.00	179.72	10,100.0	-1,989.2	818.8	2,098.8	0.00	0.00	0.00
12,300.0	90.00	179.72	10,100.0	-2,089.2	819.3	2,197.4	0.00	0.00	0.00
12,400.0	90.00	179.72	10,100.0	-2,189.2	819.8	2,296.1	0.00	0.00	0.00
12,500.0	90.00	179.72	10,100.0	-2,289.2	820.3	2,394.7	0.00	0.00	0.00
12,600.0	90.00	179.72	10,100.0	-2,389.2	820.8	2,493.4	0.00	0.00	0.00
12,700.0	90.00	179.72	10,100.0	-2,489.2	821.3	2,592.0	0.00	0.00	0.00
12,800.0	90.00	179.72	10,100.0	-2,589.2	821.8	2,690.7	0.00	0.00	0.00
12,900.0	90.00	179.72	10,100.0	-2,689.2	822.2	2,789.3	0.00	0.00	0.00

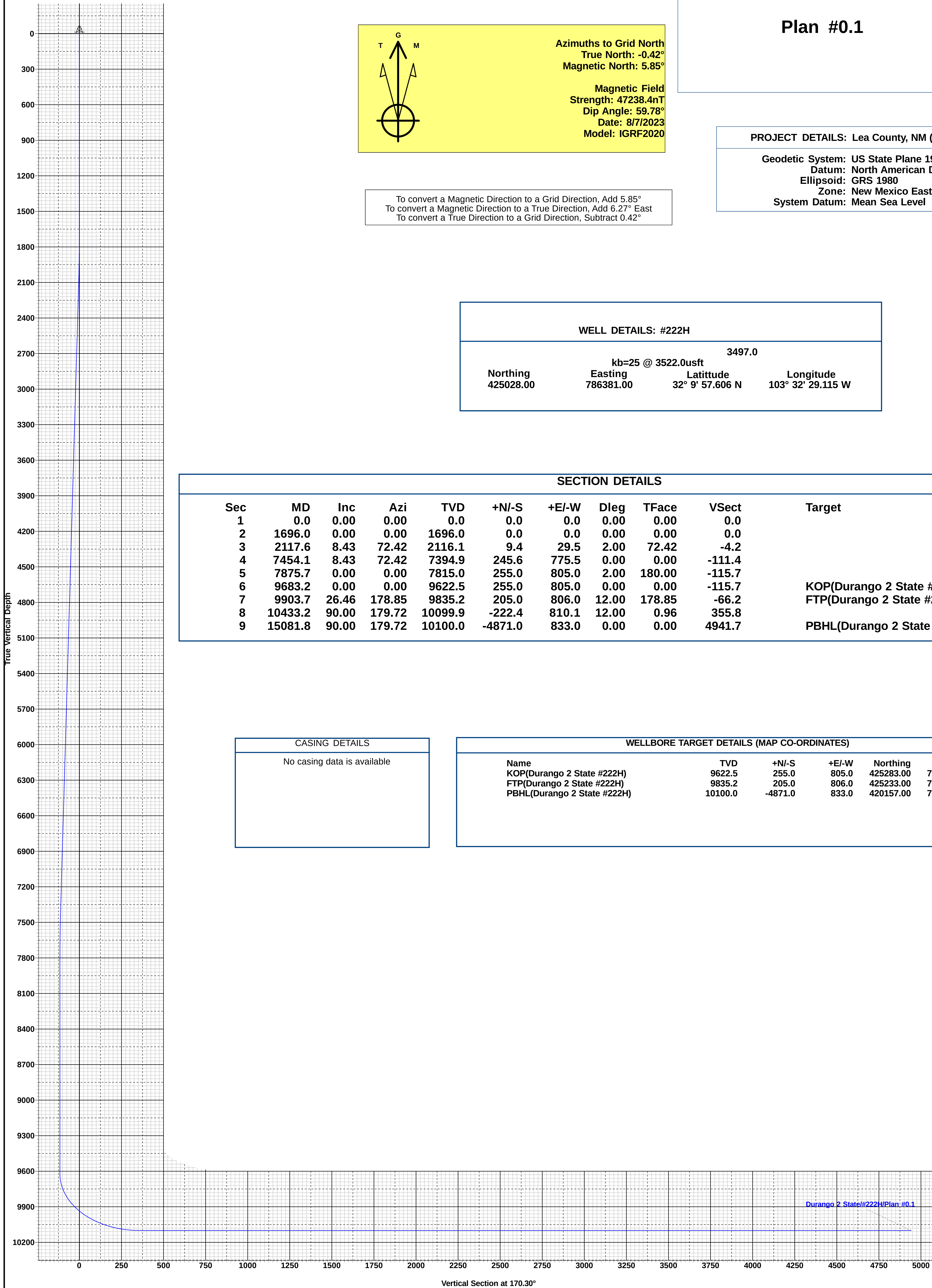


Planning Report

Database:	PEDM	Local Co-ordinate Reference:	Well #222H
Company:	Midland	TVD Reference:	kb=25 @ 3522.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	kb=25 @ 3522.0usft
Site:	Durango 2 State	North Reference:	Grid
Well:	#222H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

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)	
13,000.0	90.00	179.72	10,100.0	-2,789.2	822.7	2,888.0	0.00	0.00	0.00	
13,100.0	90.00	179.72	10,100.0	-2,889.2	823.2	2,986.6	0.00	0.00	0.00	
13,200.0	90.00	179.72	10,100.0	-2,989.2	823.7	3,085.3	0.00	0.00	0.00	
13,300.0	90.00	179.72	10,100.0	-3,089.2	824.2	3,183.9	0.00	0.00	0.00	
13,400.0	90.00	179.72	10,100.0	-3,189.2	824.7	3,282.6	0.00	0.00	0.00	
13,500.0	90.00	179.72	10,100.0	-3,289.2	825.2	3,381.3	0.00	0.00	0.00	
13,600.0	90.00	179.72	10,100.0	-3,389.2	825.7	3,479.9	0.00	0.00	0.00	
13,700.0	90.00	179.72	10,100.0	-3,489.2	826.2	3,578.6	0.00	0.00	0.00	
13,800.0	90.00	179.72	10,100.0	-3,589.2	826.7	3,677.2	0.00	0.00	0.00	
13,900.0	90.00	179.72	10,100.0	-3,689.2	827.2	3,775.9	0.00	0.00	0.00	
14,000.0	90.00	179.72	10,100.0	-3,789.2	827.7	3,874.5	0.00	0.00	0.00	
14,100.0	90.00	179.72	10,100.0	-3,889.2	828.2	3,973.2	0.00	0.00	0.00	
14,200.0	90.00	179.72	10,100.0	-3,989.2	828.7	4,071.8	0.00	0.00	0.00	
14,300.0	90.00	179.72	10,100.0	-4,089.2	829.1	4,170.5	0.00	0.00	0.00	
14,400.0	90.00	179.72	10,100.0	-4,189.2	829.6	4,269.1	0.00	0.00	0.00	
14,500.0	90.00	179.72	10,100.0	-4,289.2	830.1	4,367.8	0.00	0.00	0.00	
14,600.0	90.00	179.72	10,100.0	-4,389.2	830.6	4,466.4	0.00	0.00	0.00	
14,700.0	90.00	179.72	10,100.0	-4,489.2	831.1	4,565.1	0.00	0.00	0.00	
14,800.0	90.00	179.72	10,100.0	-4,589.2	831.6	4,663.7	0.00	0.00	0.00	
14,900.0	90.00	179.72	10,100.0	-4,689.2	832.1	4,762.4	0.00	0.00	0.00	
15,000.0	90.00	179.72	10,100.0	-4,789.2	832.6	4,861.0	0.00	0.00	0.00	
15,081.8	90.00	179.72	10,100.0	-4,871.0	833.0	4,941.7	0.00	0.00	0.00	
PBHL(Durango 2 State #222H)										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude		
- hit/miss target										
- Shape								Longitude		
KOP(Durango 2 State #1 - plan hits target center - Point	0.00	0.00	9,622.5	255.0	805.0	425,283.00	787,186.00	32° 10' 0.071 N 103° 32' 19.729 W		
FTP(Durango 2 State #2 - plan hits target center - Point	0.00	0.00	9,835.2	205.0	806.0	425,233.00	787,187.00	32° 9' 59.576 N 103° 32' 19.721 W		
PBHL(Durango 2 State # - plan hits target center - Point	0.00	0.00	10,100.0	-4,871.0	833.0	420,157.00	787,214.00	32° 9' 9.346 N 103° 32' 19.843 W		



To convert a Magnetic Direction to a Grid Direction, Add 5.85°
To convert a Magnetic Direction to a True Direction, Add 6.27° East
To convert a True Direction to a Grid Direction, Subtract 0.42°

Lea County, NM (NAD 83 NME)

Durango 2 State #222H

Plan #0.1

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

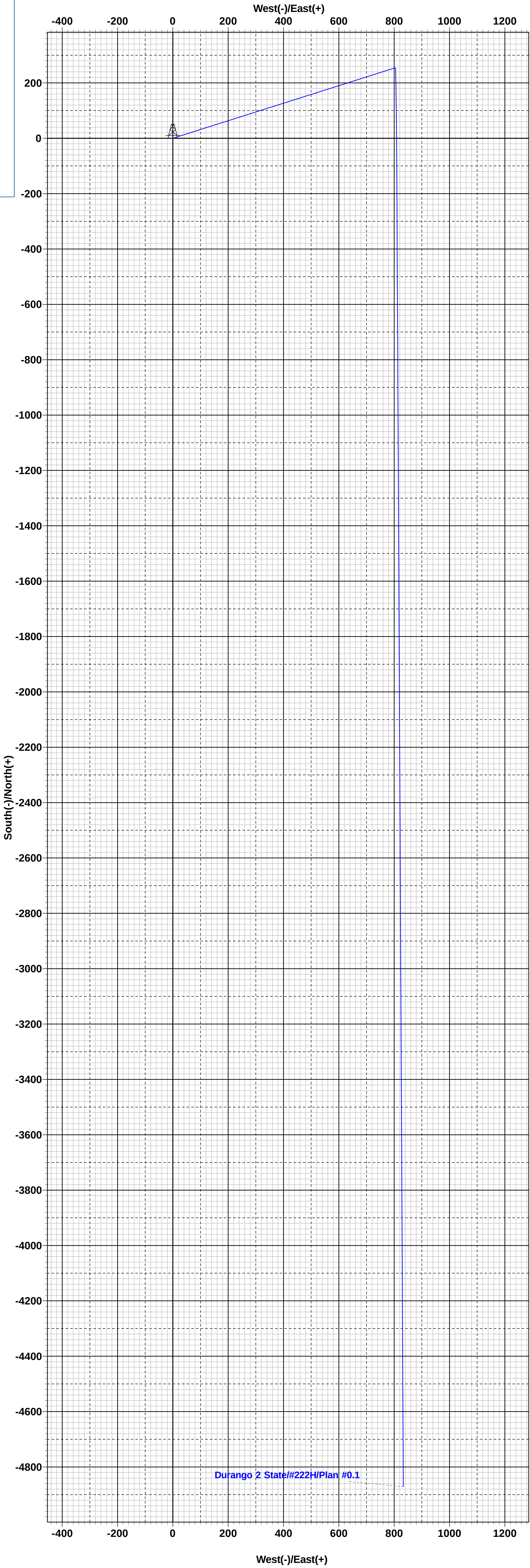
Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level

WELL DETAILS: #222H				
			3497.0	
kb=25 @ 3522.0usft				
Northing	Easting	Latitude	Longitude	
425028.00	786381.00	32° 9' 57.606 N	103° 32' 29.115 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	1696.0	0.00	0.00	1696.0	0.0	0.0	0.00	0.00	0.0	
3	2117.6	8.43	72.42	2116.1	9.4	29.5	2.00	72.42	-4.2	
4	7454.1	8.43	72.42	7394.9	245.6	775.5	0.00	0.00	-111.4	
5	7875.7	0.00	0.00	7815.0	255.0	805.0	2.00	180.00	-115.7	
6	9683.2	0.00	0.00	9622.5	255.0	805.0	0.00	0.00	-115.7	KOP(Durango 2 State #222H)
7	9903.7	26.46	178.85	9835.2	205.0	806.0	12.00	178.85	-66.2	FTP(Durango 2 State #222H)
8	10433.2	90.00	179.72	10099.9	-222.4	810.1	12.00	0.96	355.8	
9	15081.8	90.00	179.72	10100.0	-4871.0	833.0	0.00	0.00	4941.7	PBHL(Durango 2 State #222H)

CASING DETAILS
No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)					
Name	TVD	+N/-S	+E/-W	Northing	Easting
KOP(Durango 2 State #222H)	9622.5	255.0	805.0	425283.00	787186.00
FTP(Durango 2 State #222H)	9835.2	205.0	806.0	425233.00	787187.00
PBHL(Durango 2 State #222H)	10100.0	-4871.0	833.0	420157.00	787214.00



State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

Section 1 – Plan Description

Effective May 25, 2021

I. Operator: EOG Resources, Inc. **OGRID:** 7377 **Date:** 8/10/2023

II. Type: ☒ Original ☐ Amendment due to ☐ 19.15.27.9.D(6)(a) NMAC ☐ 19.15.27.9.D(6)(b) NMAC ☐ Other.

If Other, please describe: _____

III. Well(s): Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Durango 2 State 222H		B-2-25S-33E	300' FNL & 2117' FEL	+/- 1000	+/- 3500	+/- 3000

IV. Central Delivery Point Name: Durango 2 State CTB [See 19.15.27.9(D)(1) NMAC]

V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
Durango 2 State 222H		9/31/23	10/15/23	12/01/23	01/01/24	02/01/24

VI. Separation Equipment: ☒ Attach a complete description of how Operator will size separation equipment to optimize gas capture.

VII. Operational Practices: ☒ Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

VIII. Best Management Practices: ☒ Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

Section 2 – Enhanced Plan

EFFECTIVE APRIL 1, 2022

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

☒ Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

IX. Anticipated Natural Gas Production:

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in

XI. Map. ☐ Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

XII. Line Capacity. The natural gas gathering system ☐ will ☐ will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

XIII. Line Pressure. Operator ☐ does ☐ does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

☐ Attach Operator's plan to manage production in response to the increased line pressure.

XIV. Confidentiality: ☐ Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

Section 3 - Certifications

Effective May 25, 2021

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

☒ Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

☐ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system.

If Operator checks this box, Operator will select one of the following:

Well Shut-In. ☐ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

Venting and Flaring Plan. ☐ Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- (a) power generation on lease;
- (b) power generation for grid;
- (c) compression on lease;
- (d) liquids removal on lease;
- (e) reinjection for underground storage;
- (f) reinjection for temporary storage;
- (g) reinjection for enhanced oil recovery;
- (h) fuel cell production; and
- (i) other alternative beneficial uses approved by the division.

Section 4 - Notices

1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature: *Star L Harrell*

Printed Name: Star L Harrell

Title: Sr Regulatory Specialist

E-mail Address: Star_Harrell@eogresources.com

Date: 8/10/2023

Phone: (432) 848-9161

OIL CONSERVATION DIVISION
(Only applicable when submitted as a standalone form)

Approved By:

Title:

Approval Date:

Conditions of Approval:

Natural Gas Management Plan**Items VI-VIII****VI. Separation Equipment: Attach a complete description of how Operator will size separation equipment to optimize gas capture.**

- Separation equipment will be sized to provide adequate separation for anticipated rates.
- Adequate separation relates to retention time for Liquid – Liquid separation and velocity for Gas-Liquid separation.
- Collection systems are appropriately sized to handle facility production rates on all (3) phases.
- Ancillary equipment and metering is selected to be serviced without flow interruptions or the need to release gas from the well.

VII. Operational Practices: Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F 19.15.27.8 NMAC.**Drilling Operations**

- All flare stacks will be properly sized. The flare stacks will be located at a minimum 100' from the nearest surface hole location on the pad.
- All natural gas produced during drilling operations will be flared, unless there is an equipment malfunction and/or to avoid risk of an immediate and substantial adverse impact on safety and the environment, at which point the gas will be vented.

Completions/Recompletions Operations

- New wells will not be flowed back until they are connected to a properly sized gathering system.
- The facility will be built/sized for maximum anticipated flowrates and pressures to minimize waste.
- For flowback operations, multiple stages of separation will be used as well as excess VRU and blowers to make sure waste is minimized off the storage tanks and facility.
- During initial flowback, the well stream will be routed to separation equipment.
- At an existing facility, when necessary, post separation natural gas will be flared until it meets pipeline specifications, at which point it will be turned into a collection system.
- At a new facility, post separation natural gas will be vented until storage tanks can safely function, at which point it will be flared until it meets pipeline spec.

Production Operations

- Weekly AVOs will be performed on all facilities.
- All flares will be equipped with auto-ignition systems and continuous pilot operations.
- After a well is stabilized from liquid unloading, the well will be turned back into the collection system.
- All plunger lift systems will be optimized to limit the amount of waste.
- All tanks will have automatic gauging equipment installed.
- Leaking thief hatches found during AVOs will be cleaned and properly re-sealed.

Performance Standards

- Production equipment will be designed to handle maximum anticipated rates and pressure.
- All flared gas will be combusted in a flare stack that is properly sized and designed to ensure proper combustion.
- Weekly AVOs will be performed on all wells and facilities that produce more than 60 Mcfd.

Measurement & Estimation

- All volume that is flared and vented that is not measured will be estimated.
- All measurement equipment for flared volumes will conform to API 14.10.
- No meter bypasses will be installed.

- When metering is not practical due to low pressure/low rate, the vented or flared volume will be estimated.

VIII. Best Management Practices: Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

- During downhole well maintenance, EOG will use best management practices to vent as minimally as possible.
- Prior to the commencement of any maintenance, the tank or vessel will be isolated from the rest of the facilities.
- All valves upstream of the equipment will be closed and isolated.
- After equipment has been isolated, the equipment will be blown down to as low a pressure as possible into the collection system.
- If the equipment being maintained cannot be relieved into the collection system, it shall be released to a tank where the vapor can either be captured or combusted if possible.
- After downhole well maintenance, natural gas will be flared until it reaches pipeline specification.



Offline Intermediate Cementing Procedure

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Cement Program

1. No changes to the cement program will take place for offline cementing.

Summarized Operational Procedure for Intermediate Casing

1. Run casing as per normal operations. While running casing, conduct negative pressure test and confirm integrity of the float equipment back pressure valves.
 - a. Float equipment is equipped with two back pressure valves rated to a minimum of 5,000 psi.
2. Land production casing on mandrel hanger through BOP.
 - a. If casing is unable to be landed with a mandrel hanger, then the **casing will be cemented online**.
3. Break circulation and confirm no restrictions.
 - a. Ensure no blockage of float equipment and appropriate annular returns.
 - b. Perform flow check to confirm well is static.
4. Set pack-off
 - a. If utilizing a fluted/ported mandrel hanger, ensure well is static on the annulus and inside the casing by filling the pipe with kill weight fluid, remove landing joint, and set annular packoff through BOP. Pressure test to 5,000 psi for 10 min.
 - b. If utilizing a solid mandrel hanger, ensure well is static on the annulus and inside the casing by filling the pipe with kill weight fluid. Pressure test seals to 5,000 psi for 10 min. Remove landing joint through BOP.
5. After confirmation of both annular barriers and the two casing barriers, install TA plug and pressure test to 5,000 psi for 10 min. Notify the BLM with intent to proceed with nipple down and offline cementing.
 - a. Minimum 4 hrs notice.
6. With the well secured and BLM notified, nipple down BOP and secure on hydraulic carrier or cradle.
 - a. **Note, if any of the barriers fail to test, the BOP stack will not be nipped down until after the cement job has concluded and both lead and tail slurry have reached 500 psi.**
7. Skid/Walk rig off current well.
8. Confirm well is static before removing TA Plug.
 - a. Cementing operations will not proceed until well is under control. (If well is not static, notify BLM and proceed to kill)
 - b. Casing outlet valves will provide access to both the casing ID and annulus. Rig or third party pump truck will kill well prior to cementing.
 - c. Well control plan can be seen in Section B, Well Control Procedures.
 - d. If need be, rig can be moved back over well and BOP nipped back up for any further remediation.



Offline Intermediate Cementing Procedure

2/24/2022

- e. Diagram for rig positioning relative to offline cementing can be seen in Figure 4.
9. Rig up return lines to take returns from wellhead to pits and rig choke.
 - a. Test all connections and lines from wellhead to choke manifold to 5,000 psi high for 10 min.
 - b. If either test fails, perform corrections and retest before proceeding.
 - c. Return line schematics can be seen in Figure 3.
10. Remove TA Plug from the casing.
11. Install offline cement tool.
 - a. Current offline cement tool schematics can be seen in Figure 1 (Cameron) and Figure 2 (Cactus).
12. Rig up cement head and cementing lines.
 - a. Pressure test cement lines against cement head to 80% of casing burst for 10 min.
13. Break circulation on well to confirm no restrictions.
 - a. If gas is present on circulation, well will be shut in and returns rerouted through gas buster.
 - b. Max anticipated time before circulating with cement truck is 6 hrs.
14. Pump cement job as per plan.
 - a. At plug bump, test casing to 0.22 psi/ft or 1500 psi, whichever is greater.
 - b. If plug does not bump on calculated, shut down and wait 8 hrs or 500 psi compressive strength, whichever is greater before testing casing.
15. Confirm well is static and floats are holding after cement job.
 - a. With floats holding and backside static:
 - i. Remove cement head.
 - b. If floats are leaking:
 - i. Shut-in well and WOC (Wait on Cement) until tail slurry reaches 500 psi compressive strength and the casing is static prior to removing cement head.
 - c. If there is flow on the backside:
 - i. Shut in well and WOC until tail slurry reaches 500 psi compressive strength. Ensure that the casing is static prior to removing cement head.
16. Remove offline cement tool.
17. Install night cap with pressure gauge for monitoring.
18. Test night cap to 5,000 psi for 10 min.



Offline Intermediate Cementing Procedure

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Example Well Control Plan Content

A. Well Control Component Table

The table below, which covers the cementing of the **5M MASP (Maximum Allowable Surface Pressure) portion of the well**, outlines the well control component rating in use. This table, combined with the mud program, documents that two barriers to flow can be maintained at all times, independent of the BOP nipped up to the wellhead.

Intermediate hole section, 5M requirement

Component	RWP
Pack-off	10M
Casing Wellhead Valves	10M
Annular Wellhead Valves	5M
TA Plug	10M
Float Valves	5M
2" 1502 Lo-Torque Valves	15M

B. Well Control Procedures

Well control procedures are specific to the rig equipment and the operation at the time the kick occurs. Below are the minimal high-level tasks prescribed to assure a proper shut-in while circulating and cementing through the Offline Cement Adapter.

General Procedure While Circulating

1. Sound alarm (alert crew).
2. Shut down pumps.
3. Shut-in Well (close valves to rig pits and open valve to rig choke line. Rig choke will already be in the closed position).
4. Confirm shut-in.
5. Notify tool pusher/company representative.



Offline Intermediate Cementing Procedure

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6. Read and record the following:
 - a. SICP (Shut in Casing Pressure) and AP (Annular Pressure)
 - b. Pit gain
 - c. Time
 - d. Regroup and identify forward plan to continue circulating out kick via rig choke and mud/gas separator. Circulate and adjust mud density as needed to control well.

General Procedure While Cementing

1. Sound alarm (alert crew).
2. Shut down pumps.
3. Shut-in Well (close valves to rig pits and open valve to rig choke line. Rig choke will already be in the closed position).
4. Confirm shut-in.
5. Notify tool pusher/company representative.
6. Open rig choke and begin pumping again taking returns through choke manifold and mud/gas separator.
7. Continue to place cement until plug bumps.
8. At plug bump close rig choke and cement head.
9. Read and record the following
 - a. SICP and AP
 - b. Pit gain
 - c. Time
 - d. Shut-in annulus valves on wellhead

General Procedure After Cementing

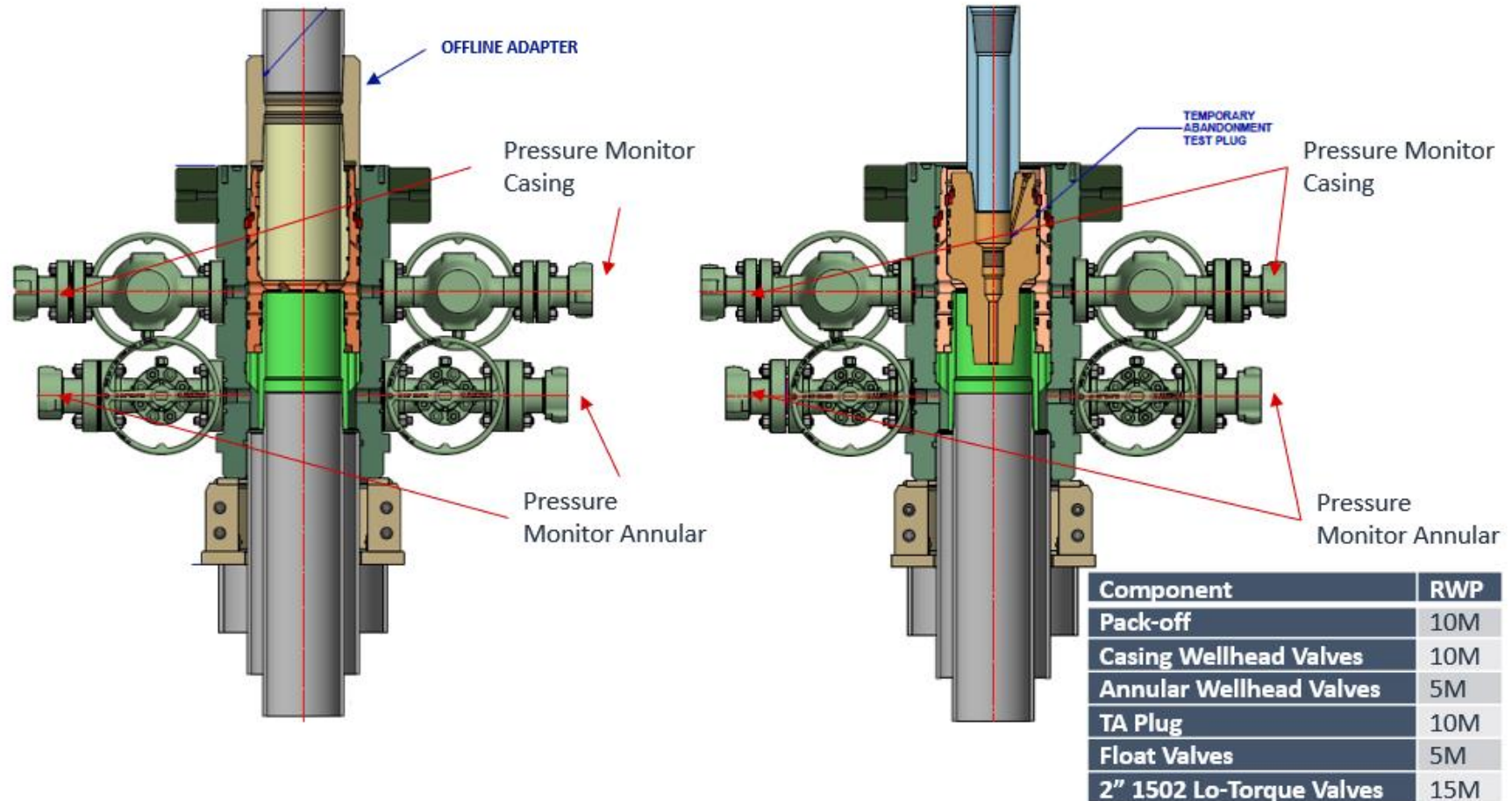
1. Sound alarm (alert crew).
2. Shut-in Well (close valves to rig pits and open valve to rig choke line. Rig choke will already be in the closed position).
3. Confirm shut-in.
4. Notify tool pusher/company representative.
5. Read and record the following:
 - a. SICP and AP
 - b. Pit gain
 - c. Time
 - d. Shut-in annulus valves on wellhead



Offline Intermediate Cementing Procedure

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Figure 1: Cameron TA Plug and Offline Adapter Schematic

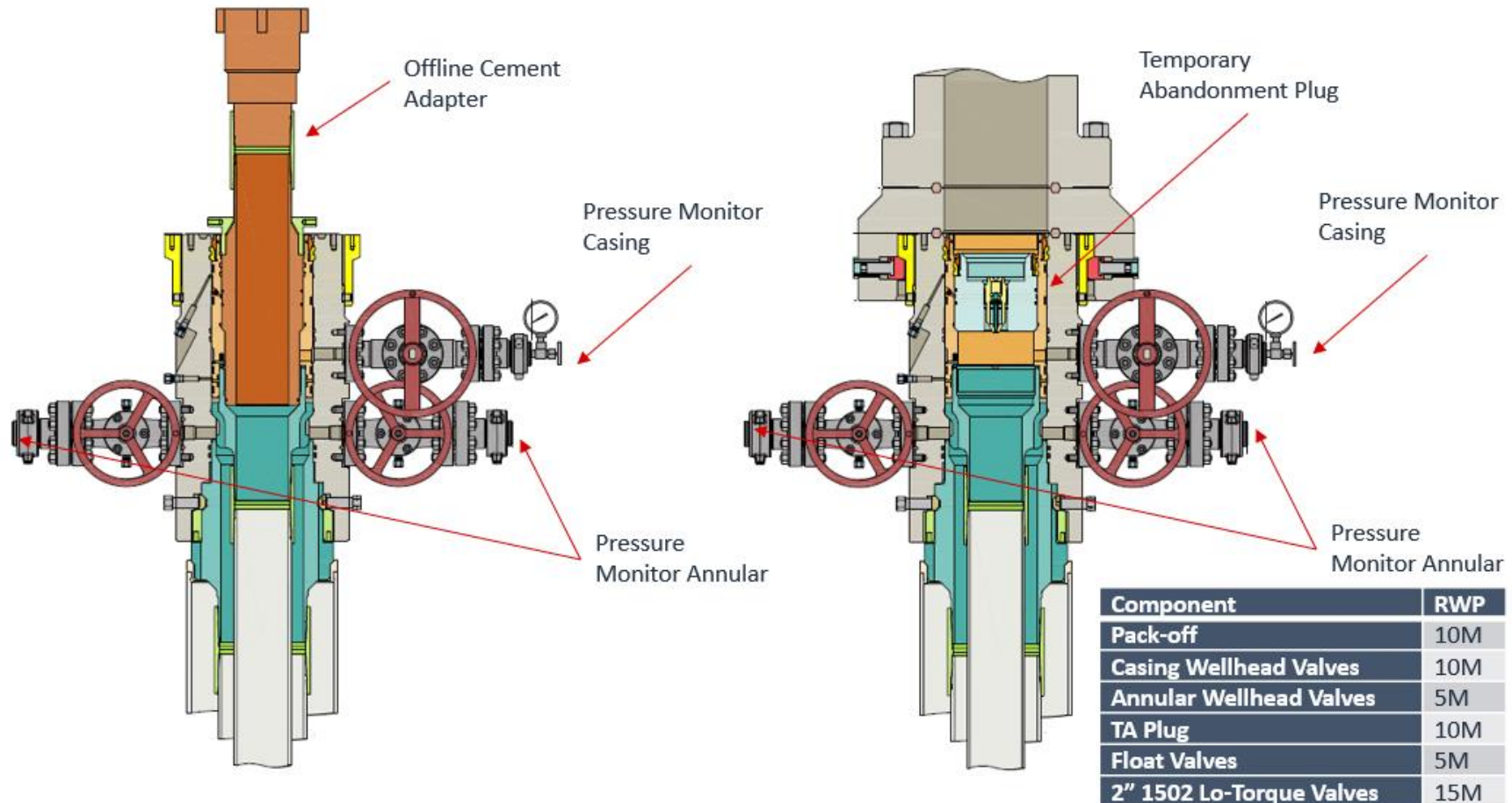




Offline Intermediate Cementing Procedure

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Figure 2: Cactus TA Plug and Offline Adapter Schematic

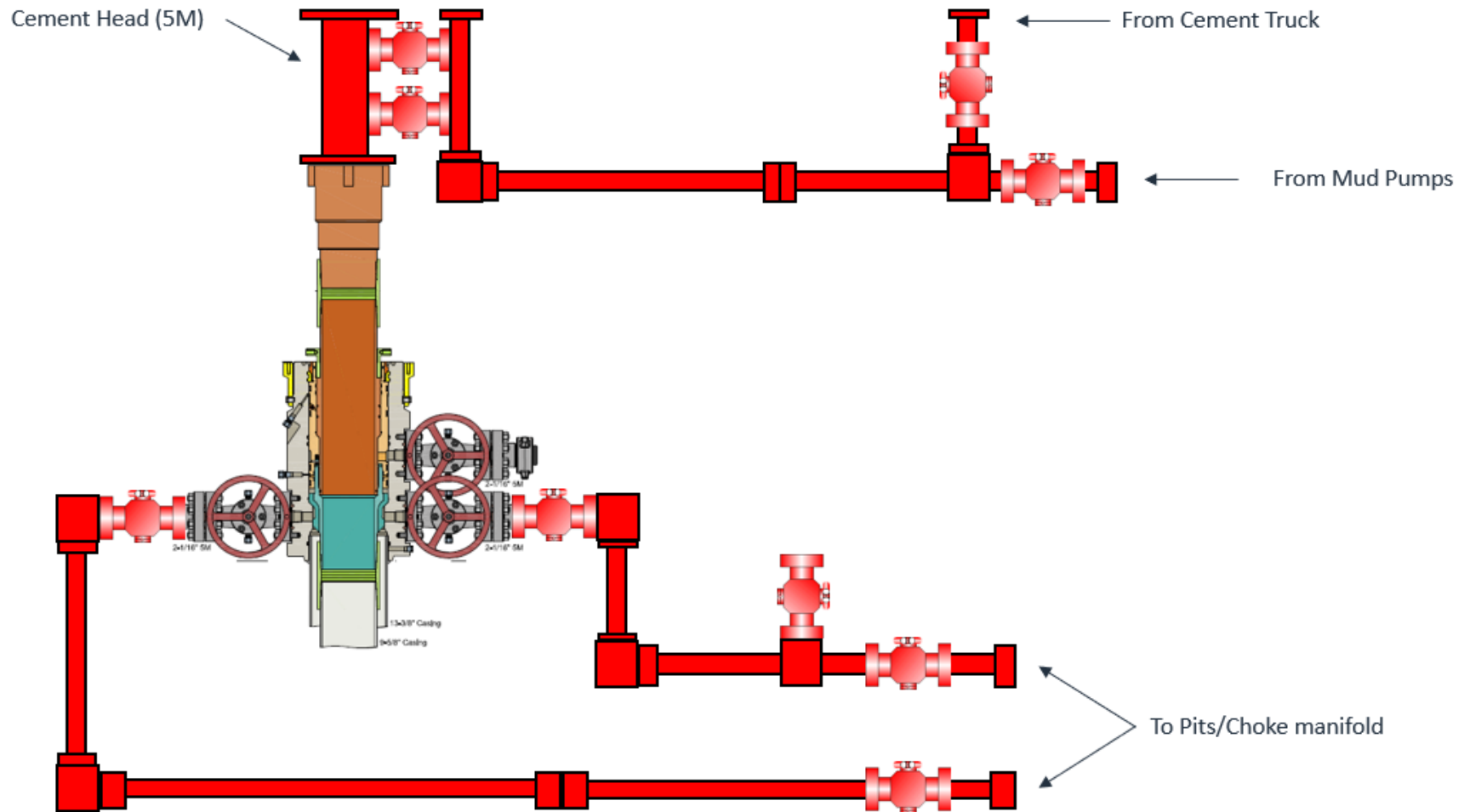




Offline Intermediate Cementing Procedure

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Figure 3: Back Yard Rig Up



*** All Lines 10M rated working pressure



Offline Intermediate Cementing Procedure

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Figure 4: Rig Placement Diagram

