

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 347383

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 30-025-51941 |
| 4. Property Code 319585 | 5. Property Name DATE 14 STATE COM | 6. Well No. 201H |

7. Surface Location

| | | | | | | | | | |
|---------------|---------------|-----------------|--------------|--------------|------------------|---------------|------------------|---------------|---------------|
| UL - Lot M | Section 14 | Township 21S | Range 33E | Lot Idn M | Feet From 826 | N/S Line S | Feet From 789 | E/W Line W | County Lea |
|---------------|---------------|-----------------|--------------|--------------|------------------|---------------|------------------|---------------|---------------|

8. Proposed Bottom Hole Location

| | | | | | | | | | |
|---------------|---------------|-----------------|--------------|--------------|------------------|---------------|------------------|---------------|---------------|
| UL - Lot D | Section 11 | Township 21S | Range 33E | Lot Idn D | Feet From 100 | N/S Line N | Feet From 430 | E/W Line W | County Lea |
|---------------|---------------|-----------------|--------------|--------------|------------------|---------------|------------------|---------------|---------------|

9. Pool Information

| | |
|--------------------------|------|
| BERRY;BONE SPRING, NORTH | 5535 |
|--------------------------|------|

Additional Well Information

| | | | | |
|---------------------------|-----------------------------|----------------------------------------|-------------------------|------------------------------------|
| 11. Work Type New Well | 12. Well Type OIL | 13. Cable/Rotary | 14. Lease Type State | 15. Ground Level Elevation 3814 |
| 16. Multiple N | 17. Proposed Depth 20087 | 18. Formation Bone Spring | 19. Contractor | 20. Spud Date 9/1/2023 |
| 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 | 2040 | 730 | 0 |
| Int1 | 11 | 9.625 | 40 | 4470 | 1260 | 0 |
| Int2 | 8.75 | 7.625 | 29.7 | 9873 | 1830 | 0 |
| Prod | 6.75 | 5.5 | 17 | 20087 | 800 | 9373 |

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 NMOCD 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 <input checked="" type="checkbox"/> and/or 19.15.14.9 (B) NMAC <input checked="" type="checkbox"/> 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: 9/6/2023 | Expiration Date: 9/6/2025 |
| Date: 8/17/2023 | 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 347383

PERMIT CONDITIONS OF APPROVAL

| | |
|----------------------------------------------------------------------------------------------|----------------------------------|
| Operator Name and Address: EOG RESOURCES INC [7377] P.O. Box 2267 Midland, TX 79702 | API Number: 30-025-51941 |
| | Well: DATE 14 STATE COM #201H |

| 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 RCBL MUST BE RUN ON THAT STRING OF CASING. |
| pkautz | Must run 4-string casing program. |

State of New Mexico
Energy, Minerals and Natural Resources Department

Michelle Lujan Grisham
Governor

Sarah Cottrell Propst
Cabinet Secretary Designate

Todd E. Leahy, JD, PhD
Deputy Secretary

Dylan Fuge, Division Director
Oil Conservation Division



August 22, 2023

BUREAU OF LAND MANAGEMENT
ATT: James S. Rutley
620 E Greene Street
Carlsbad, NM 88220

STATE LAND OFFICE
ATT: Paige Czoski
PO BOX 1148
Santa Fe, NM 87505

RE: APPLICATION FOR PERMIT TO DRILL IN POTASH AREA

OPERATOR: EOG RESOURCES, INC.

LEASE NAME: DATE 14 STATE COM #201H

PROPOSED LOCATION: U/L M Sec 14 T21S R33E 826 FSL 789 FWL

Lat. 32.4738329

Long. -103.5492135 NAD83

PROPOSED DEPTH: 20087' MD 9809' TVD

Gentleman:

The application for permit to drill identified above has been filed with this office of the New Mexico Oil Conservation Division. Pursuant to the provisions of Oil Conservation Division Order R – 111 - P, please advise this office whether the location is within an established Life-of-Mine-Reserve that are filed with and approved by your office. If not, please advise whether it is within the buffer zone established by the order.

Thank you for your assistance. Please Return as soon as possible.

Very truly yours,

OIL CONSERVATION DIVISION

P. Kautz
Paul Kautz

Hobbs District Geologist, District I

RESONSE:

The above referenced location is in LMR (2023 year) -----Yes _____ No ☒

The above referenced location is within the Buffer Zone -----Yes _____ No ☒

Signed

Printed Signature

Representing

JAMES RUTLEY
BLM-CFO-SOLIDS



EOG Resources, Inc.

P.O. Box 2267
Midland, TX 79702

Phone: (432) 686-3600

Fax: (432) 686-3773

August 1, 2023

SENT VIA EMAIL & FEDEX

New Mexico Energy, Minerals & Natural Resources Department
Oil Conservation Division- Hobbs District
Attn: Paul Kautz
1625 N. French Dr.
Hobbs, NM 88240

RE: R-111-P Potash Area- Statement from Operator
Date 14 State Com #201H, #202H, #203H, #301H
Sections 11 & 14, 21S-33E, Lea County, NM

Dear Mr. Kautz:

EOG has reviewed the area surrounding the subject sections for the purpose of identifying Potash Leases within a one (1) mile radius of the pending subject well APDs.

The New Mexico State Land Office's Data Portal, the BLM LR2000 Serial Register Page covering the entire township and range, and confirmation from the Federal Abstract Company in Santa Fe, NM were used to make this determination.

As of the date of this letter, EOG finds no Potash Leases within a one (1) mile radius of the subject sections. If you have any questions or concerns, please give me a call or send me an email.

Sincerely,

EOG Resources, Inc.

Riker Everett, CPL | Land Specialist
o) 432.247.6326 | m) 210.289.5754
e) Riker_Everett@eogresources.com



Date 14 State Com #201H
Lea County, New Mexico
Proposed Wellbore
Design B

KB: 3839'
GL: 3814'

826' FSL
789' FWL
Section 14
T-21-S, R-33-E

API: 30-025-*****

Bit Size: 16"
13-3/8", 54.5#, J-55, STC
@ 0' - 2,040'

Bit Size: 11"
9-5/8", 40.#, J-55, LTC
@ 0' - 4,470'

Bit Size: 8-3/4"
7-5/8", 29.7#, HCP-110, FXL
@ 0' - 9,873'

Bit Size: 6-3/4"
5-1/2", 17.#, HCP-110, LTC
@ 0' - 20,087'

TOC: 3,970'

TOC: 9,370'

KOP: 9,414' MD, 9,332' TVD
EOC: 10,164' MD, 9,809' TVD

Lateral: 20,087' MD, 9,809' TVD
BH Location: 100' FNL & 430' FWL
Sec. 11
T-21-S R-33-E



Date 14 State Com #201H

Design B**CASING PROGRAM**

| Hole Size | Interval MD | | Interval TVD | | Csg OD | Weight | Grade | Conn |
|-----------|-------------|---------|--------------|---------|---------|--------|---------|------|
| | From (ft) | To (ft) | From (ft) | To (ft) | | | | |
| 16" | 0 | 2,040 | 0 | 2,040 | 13-3/8" | 54.5# | J-55 | STC |
| 11" | 0 | 4,558 | 0 | 4,470 | 9-5/8" | 40# | J-55 | LTC |
| 8-3/4" | 0 | 9,961 | 0 | 9,873 | 7-5/8" | 29.7# | HCP-110 | FXL |
| 6-3/4" | 0 | 20,087 | 0 | 9,809 | 5-1/2" | 17# | HCP-110 | LTC |

Cementing Program:

| Depth | No. Sacks | Wt. ppg | Yld Ft3/sk | Slurry Description |
|---------|-----------|---------|------------|--------------------------------------------------------------------------------------------------------|
| 2,040' | 630 | 13.5 | 1.73 | Lead: Class C + 4.0% Bentonite Gel + 2.0% CaCl ₂ (TOC @ Surface) |
| | 100 | 14.8 | 1.34 | Tail: Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate + 2.0% KCl (1.06 lb/sk) |
| 4,470' | 590 | 12.7 | 1.11 | Lead: Class C + 0.15% C-20 + 11.63 pps Salt + 0.1% C-51 + 0.75% C-41P (TOC @ Surface) |
| | 670 | 14.8 | 1.50 | Tail: Class C + 0.13% C-20 |
| 9,873' | 830 | 14.2 | 1.11 | 1st Stage (Tail): Class C + 0.6% Halad-9 + 0.45% HR-601 + 3% Microbond (TOC @ 6,891') |
| | 1000 | 14.8 | 1.50 | 2nd Stage (Bradenhead squeeze): Class C + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (TOC @ surface) |
| 20,087' | 800 | 13.2 | 1.52 | Class H + 0.1% C-20 + 0.05% CSA-1000 + 0.20% C-49 + 0.40% C-17 (TOC @ 9,373') |

Mud Program:

| Depth | Type | Weight (ppg) | Viscosity | Water Loss |
|----------------------------|-------------|--------------|-----------|------------|
| 0 – 2,040' | Fresh - Gel | 8.6-8.8 | 28-34 | N/c |
| 2,040' – 4,470' | Brine | 8.6-10.2 | 28-34 | N/c |
| 4,470' – 9,873' | Brine | 8.6-10.2 | 28-34 | N/c - 6 |
| 9873' – 20,087' Lateral | Oil Base | 8.8-9.5 | 58-68 | N/c - 6 |



Date 14 State Com 201H

EOG requests to pump a two stage cement job on the 7-5/8" intermediate casing string with the first stage being pumped conventionally with the calculated top of cement above the Brushy Canyon (7,091') and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface. If necessary, a top out consisting of sacks of Class C cement + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (2.30 yld, 12.91 ppg) will be executed as a contingency. Once cement circulates to surface drilling operations to drill out of the intermediate shoe will proceed. The final cement top will be verified by Echo-meter.

TUBING REQUIREMENTS

EOG respectively requests an exception to the following NMOCD rule:

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

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



Date 14 State Com #201H

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.



Date 14 State Com #201H

■ **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.



**Date 14 State Com #201H
Emergency Assistance Telephone List**

| PUBLIC SAFETY: | | 911 or |
|--------------------------------------|--------|----------------|
| Lea County Sheriff's Department | | (575) 396-3611 |
| Rod Coffman | | |
| Fire Department: | | |
| Carlsbad | | (575) 885-3125 |
| Artesia | | (575) 746-5050 |
| Hospitals: | | |
| Carlsbad | | (575) 887-4121 |
| Artesia | | (575) 748-3333 |
| Hobbs | | (575) 392-1979 |
| Dept. of Public Safety/Carlsbad | | (575) 748-9718 |
| Highway Department | | (575) 885-3281 |
| New Mexico Oil Conservation | | (575) 476-3440 |
| NMOCD Inspection Group - South | | (575) 626-0830 |
| U.S. Dept. of Labor | | (575) 887-1174 |
| EOG Resources, Inc. | | |
| EOG / Midland | Office | (432) 686-3600 |
| Company Drilling Consultants: | | |
| David Dominique | Cell | (985) 518-5839 |
| Mike Vann | Cell | (817) 980-5507 |
| Drilling Engineer | | |
| Stephen Davis | Cell | (432) 235-9789 |
| Matt Day | Cell | (432) 296-4456 |
| Drilling Manager | | |
| Branden Keener | Office | (432) 686-3752 |
| | Cell | (210) 294-3729 |
| Drilling Superintendent | | |
| Steve Kelly | Office | (432) 686-3706 |
| | Cell | (210) 416-7894 |
| H&P Drilling | | |
| H&P Drilling | Office | (432) 563-5757 |
| H&P 651 Drilling Rig | Rig | (903) 509-7131 |
| Tool Pusher: | | |
| Johnathan Craig | Cell | (817) 760-6374 |
| Brad Garrett | | |
| Safety: | | |
| Brian Chandler (HSE Manager) | Office | (432) 686-3695 |
| | Cell | (817) 239-0251 |



Midland

Lea County, NM (NAD 83 NME)

Date 14 State Com

#201H

OH

Plan: Plan #0.1

Standard Planning Report

07 August, 2023



Planning Report

| | | | |
|------------------|-----------------------------|-------------------------------------|---------------------|
| Database: | PEDM | Local Co-ordinate Reference: | Well #201H |
| Company: | Midland | TVD Reference: | kb=25' @ 3839.0usft |
| Project: | Lea County, NM (NAD 83 NME) | MD Reference: | kb=25' @ 3839.0usft |
| Site: | Date 14 State Com | North Reference: | Grid |
| Well: | #201H | 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 | Date 14 State Com | | |
| Site Position: | | Northing: | 536,428.00 usft |
| From: | Map | Easting: | 786,265.00 usft |
| Position Uncertainty: | 0.0 usft | Slot Radius: | 13-3/16 " |
| | | Latitude: | 32° 28' 19.914 N |
| | | Longitude: | 103° 32' 20.860 W |

| | | | |
|-----------------------------|--------------|----------------------------|----------------------------------|
| Well | #201H | | |
| Well Position | +N/-S | 0.0 usft | Northing: 537,000.00 usft |
| | +E/-W | 0.0 usft | Easting: 783,150.00 usft |
| Position Uncertainty | 0.0 usft | Wellhead Elevation: | usft |
| Grid Convergence: | 0.42 ° | Ground Level: | 3,814.0 usft |

| | | | | | |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | OH | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | IGRF2020 | 8/7/2023 | 6.30 | 60.06 | 47,417.25624647 |

| | | | | | |
|--------------------------|--------------------------------|---------------------|----------------------|----------------------|--|
| 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 | 357.39 | |

| | | | | | |
|---------------------------------|------------------------|--------------------------|------------------|----------------|--|
| Plan Survey Tool Program | Date | 8/7/2023 | | | |
| Depth From (usft) | Depth To (usft) | Survey (Wellbore) | Tool Name | Remarks | |
| 1 | 0.0 | 20,086.9 Plan #0.1 (OH) | EOG MWD+IFR1 | | |
| | | | MWD + IFR1 | | |



Planning Report

| | | | |
|------------------|-----------------------------|-------------------------------------|---------------------|
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| Company: | Midland | TVD Reference: | kb=25' @ 3839.0usft |
| Project: | Lea County, NM (NAD 83 NME) | MD Reference: | kb=25' @ 3839.0usft |
| Site: | Date 14 State Com | North Reference: | Grid |
| Well: | #201H | 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 | |
| 2,343.0 | 0.00 | 0.00 | 2,343.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 2,921.7 | 11.57 | 204.43 | 2,917.7 | -53.0 | -24.1 | 2.00 | 2.00 | 0.00 | 204.43 | |
| 6,594.9 | 11.57 | 204.43 | 6,516.3 | -724.0 | -328.9 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 7,173.5 | 0.00 | 0.00 | 7,091.0 | -777.0 | -353.0 | 2.00 | -2.00 | 0.00 | 180.00 | |
| 9,414.0 | 0.00 | 0.00 | 9,331.5 | -777.0 | -353.0 | 0.00 | 0.00 | 0.00 | 0.00 | KOP(Date 14 State C |
| 9,634.5 | 26.46 | 358.85 | 9,544.2 | -727.0 | -354.0 | 12.00 | 12.00 | -0.52 | 358.85 | FTP(Date 14 State C |
| 10,164.0 | 90.00 | 359.54 | 9,808.9 | -299.6 | -359.0 | 12.00 | 12.00 | 0.13 | 0.76 | |
| 20,086.9 | 90.00 | 359.54 | 9,809.0 | 9,623.0 | -439.0 | 0.00 | 0.00 | 0.00 | 0.00 | PBHL(Date 14 State C |



Planning Report

| | | | |
|------------------|-----------------------------|-------------------------------------|---------------------|
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| Company: | Midland | TVD Reference: | kb=25' @ 3839.0usft |
| Project: | Lea County, NM (NAD 83 NME) | MD Reference: | kb=25' @ 3839.0usft |
| Site: | Date 14 State Com | North Reference: | Grid |
| Well: | #201H | 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 |
| 1,700.0 | 0.00 | 0.00 | 1,700.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,800.0 | 0.00 | 0.00 | 1,800.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,900.0 | 0.00 | 0.00 | 1,900.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,000.0 | 0.00 | 0.00 | 2,000.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,100.0 | 0.00 | 0.00 | 2,100.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,200.0 | 0.00 | 0.00 | 2,200.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,300.0 | 0.00 | 0.00 | 2,300.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,343.0 | 0.00 | 0.00 | 2,343.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,400.0 | 1.14 | 204.43 | 2,400.0 | -0.5 | -0.2 | -0.5 | 2.00 | 2.00 | 0.00 |
| 2,500.0 | 3.14 | 204.43 | 2,499.9 | -3.9 | -1.8 | -3.8 | 2.00 | 2.00 | 0.00 |
| 2,600.0 | 5.14 | 204.43 | 2,599.7 | -10.5 | -4.8 | -10.3 | 2.00 | 2.00 | 0.00 |
| 2,700.0 | 7.14 | 204.43 | 2,699.1 | -20.2 | -9.2 | -19.8 | 2.00 | 2.00 | 0.00 |
| 2,800.0 | 9.14 | 204.43 | 2,798.1 | -33.1 | -15.0 | -32.4 | 2.00 | 2.00 | 0.00 |
| 2,900.0 | 11.14 | 204.43 | 2,896.5 | -49.1 | -22.3 | -48.1 | 2.00 | 2.00 | 0.00 |
| 2,921.7 | 11.57 | 204.43 | 2,917.7 | -53.0 | -24.1 | -51.9 | 2.00 | 2.00 | 0.00 |
| 3,000.0 | 11.57 | 204.43 | 2,994.5 | -67.3 | -30.6 | -65.9 | 0.00 | 0.00 | 0.00 |
| 3,100.0 | 11.57 | 204.43 | 3,092.4 | -85.6 | -38.9 | -83.7 | 0.00 | 0.00 | 0.00 |
| 3,200.0 | 11.57 | 204.43 | 3,190.4 | -103.9 | -47.2 | -101.6 | 0.00 | 0.00 | 0.00 |
| 3,300.0 | 11.57 | 204.43 | 3,288.4 | -122.1 | -55.5 | -119.5 | 0.00 | 0.00 | 0.00 |
| 3,400.0 | 11.57 | 204.43 | 3,386.3 | -140.4 | -63.8 | -137.3 | 0.00 | 0.00 | 0.00 |
| 3,500.0 | 11.57 | 204.43 | 3,484.3 | -158.7 | -72.1 | -155.2 | 0.00 | 0.00 | 0.00 |
| 3,600.0 | 11.57 | 204.43 | 3,582.3 | -176.9 | -80.4 | -173.1 | 0.00 | 0.00 | 0.00 |
| 3,700.0 | 11.57 | 204.43 | 3,680.2 | -195.2 | -88.7 | -191.0 | 0.00 | 0.00 | 0.00 |
| 3,800.0 | 11.57 | 204.43 | 3,778.2 | -213.5 | -97.0 | -208.8 | 0.00 | 0.00 | 0.00 |
| 3,900.0 | 11.57 | 204.43 | 3,876.2 | -231.7 | -105.3 | -226.7 | 0.00 | 0.00 | 0.00 |
| 4,000.0 | 11.57 | 204.43 | 3,974.1 | -250.0 | -113.6 | -244.6 | 0.00 | 0.00 | 0.00 |
| 4,100.0 | 11.57 | 204.43 | 4,072.1 | -268.3 | -121.9 | -262.4 | 0.00 | 0.00 | 0.00 |
| 4,200.0 | 11.57 | 204.43 | 4,170.1 | -286.5 | -130.2 | -280.3 | 0.00 | 0.00 | 0.00 |
| 4,300.0 | 11.57 | 204.43 | 4,268.0 | -304.8 | -138.5 | -298.2 | 0.00 | 0.00 | 0.00 |
| 4,400.0 | 11.57 | 204.43 | 4,366.0 | -323.1 | -146.8 | -316.0 | 0.00 | 0.00 | 0.00 |
| 4,500.0 | 11.57 | 204.43 | 4,464.0 | -341.3 | -155.1 | -333.9 | 0.00 | 0.00 | 0.00 |
| 4,600.0 | 11.57 | 204.43 | 4,561.9 | -359.6 | -163.4 | -351.8 | 0.00 | 0.00 | 0.00 |
| 4,700.0 | 11.57 | 204.43 | 4,659.9 | -377.9 | -171.7 | -369.6 | 0.00 | 0.00 | 0.00 |
| 4,800.0 | 11.57 | 204.43 | 4,757.9 | -396.1 | -180.0 | -387.5 | 0.00 | 0.00 | 0.00 |
| 4,900.0 | 11.57 | 204.43 | 4,855.8 | -414.4 | -188.3 | -405.4 | 0.00 | 0.00 | 0.00 |
| 5,000.0 | 11.57 | 204.43 | 4,953.8 | -432.7 | -196.6 | -423.2 | 0.00 | 0.00 | 0.00 |
| 5,100.0 | 11.57 | 204.43 | 5,051.8 | -450.9 | -204.9 | -441.1 | 0.00 | 0.00 | 0.00 |



Planning Report

| | | | |
|------------------|-----------------------------|-------------------------------------|---------------------|
| Database: | PEDM | Local Co-ordinate Reference: | Well #201H |
| Company: | Midland | TVD Reference: | kb=25' @ 3839.0usft |
| Project: | Lea County, NM (NAD 83 NME) | MD Reference: | kb=25' @ 3839.0usft |
| Site: | Date 14 State Com | North Reference: | Grid |
| Well: | #201H | 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 | 11.57 | 204.43 | 5,149.7 | -469.2 | -213.2 | -459.0 | 0.00 | 0.00 | 0.00 |
| 5,300.0 | 11.57 | 204.43 | 5,247.7 | -487.5 | -221.5 | -476.9 | 0.00 | 0.00 | 0.00 |
| 5,400.0 | 11.57 | 204.43 | 5,345.7 | -505.7 | -229.8 | -494.7 | 0.00 | 0.00 | 0.00 |
| 5,500.0 | 11.57 | 204.43 | 5,443.7 | -524.0 | -238.1 | -512.6 | 0.00 | 0.00 | 0.00 |
| 5,600.0 | 11.57 | 204.43 | 5,541.6 | -542.2 | -246.4 | -530.5 | 0.00 | 0.00 | 0.00 |
| 5,700.0 | 11.57 | 204.43 | 5,639.6 | -560.5 | -254.6 | -548.3 | 0.00 | 0.00 | 0.00 |
| 5,800.0 | 11.57 | 204.43 | 5,737.6 | -578.8 | -262.9 | -566.2 | 0.00 | 0.00 | 0.00 |
| 5,900.0 | 11.57 | 204.43 | 5,835.5 | -597.0 | -271.2 | -584.1 | 0.00 | 0.00 | 0.00 |
| 6,000.0 | 11.57 | 204.43 | 5,933.5 | -615.3 | -279.5 | -601.9 | 0.00 | 0.00 | 0.00 |
| 6,100.0 | 11.57 | 204.43 | 6,031.5 | -633.6 | -287.8 | -619.8 | 0.00 | 0.00 | 0.00 |
| 6,200.0 | 11.57 | 204.43 | 6,129.4 | -651.8 | -296.1 | -637.7 | 0.00 | 0.00 | 0.00 |
| 6,300.0 | 11.57 | 204.43 | 6,227.4 | -670.1 | -304.4 | -655.5 | 0.00 | 0.00 | 0.00 |
| 6,400.0 | 11.57 | 204.43 | 6,325.4 | -688.4 | -312.7 | -673.4 | 0.00 | 0.00 | 0.00 |
| 6,500.0 | 11.57 | 204.43 | 6,423.3 | -706.6 | -321.0 | -691.3 | 0.00 | 0.00 | 0.00 |
| 6,594.9 | 11.57 | 204.43 | 6,516.3 | -724.0 | -328.9 | -708.2 | 0.00 | 0.00 | 0.00 |
| 6,600.0 | 11.47 | 204.43 | 6,521.3 | -724.9 | -329.3 | -709.1 | 2.00 | -2.00 | 0.00 |
| 6,700.0 | 9.47 | 204.43 | 6,619.6 | -741.4 | -336.8 | -725.3 | 2.00 | -2.00 | 0.00 |
| 6,800.0 | 7.47 | 204.43 | 6,718.5 | -754.9 | -342.9 | -738.4 | 2.00 | -2.00 | 0.00 |
| 6,900.0 | 5.47 | 204.43 | 6,817.9 | -765.1 | -347.6 | -748.5 | 2.00 | -2.00 | 0.00 |
| 7,000.0 | 3.47 | 204.43 | 6,917.6 | -772.2 | -350.8 | -755.4 | 2.00 | -2.00 | 0.00 |
| 7,100.0 | 1.47 | 204.43 | 7,017.5 | -776.1 | -352.6 | -759.3 | 2.00 | -2.00 | 0.00 |
| 7,173.5 | 0.00 | 0.00 | 7,091.0 | -777.0 | -353.0 | -760.1 | 2.00 | -2.00 | 0.00 |
| 7,200.0 | 0.00 | 0.00 | 7,117.5 | -777.0 | -353.0 | -760.1 | 0.00 | 0.00 | 0.00 |
| 7,300.0 | 0.00 | 0.00 | 7,217.5 | -777.0 | -353.0 | -760.1 | 0.00 | 0.00 | 0.00 |
| 7,400.0 | 0.00 | 0.00 | 7,317.5 | -777.0 | -353.0 | -760.1 | 0.00 | 0.00 | 0.00 |
| 7,500.0 | 0.00 | 0.00 | 7,417.5 | -777.0 | -353.0 | -760.1 | 0.00 | 0.00 | 0.00 |
| 7,600.0 | 0.00 | 0.00 | 7,517.5 | -777.0 | -353.0 | -760.1 | 0.00 | 0.00 | 0.00 |
| 7,700.0 | 0.00 | 0.00 | 7,617.5 | -777.0 | -353.0 | -760.1 | 0.00 | 0.00 | 0.00 |
| 7,800.0 | 0.00 | 0.00 | 7,717.5 | -777.0 | -353.0 | -760.1 | 0.00 | 0.00 | 0.00 |
| 7,900.0 | 0.00 | 0.00 | 7,817.5 | -777.0 | -353.0 | -760.1 | 0.00 | 0.00 | 0.00 |
| 8,000.0 | 0.00 | 0.00 | 7,917.5 | -777.0 | -353.0 | -760.1 | 0.00 | 0.00 | 0.00 |
| 8,100.0 | 0.00 | 0.00 | 8,017.5 | -777.0 | -353.0 | -760.1 | 0.00 | 0.00 | 0.00 |
| 8,200.0 | 0.00 | 0.00 | 8,117.5 | -777.0 | -353.0 | -760.1 | 0.00 | 0.00 | 0.00 |
| 8,300.0 | 0.00 | 0.00 | 8,217.5 | -777.0 | -353.0 | -760.1 | 0.00 | 0.00 | 0.00 |
| 8,400.0 | 0.00 | 0.00 | 8,317.5 | -777.0 | -353.0 | -760.1 | 0.00 | 0.00 | 0.00 |
| 8,500.0 | 0.00 | 0.00 | 8,417.5 | -777.0 | -353.0 | -760.1 | 0.00 | 0.00 | 0.00 |
| 8,600.0 | 0.00 | 0.00 | 8,517.5 | -777.0 | -353.0 | -760.1 | 0.00 | 0.00 | 0.00 |
| 8,700.0 | 0.00 | 0.00 | 8,617.5 | -777.0 | -353.0 | -760.1 | 0.00 | 0.00 | 0.00 |
| 8,800.0 | 0.00 | 0.00 | 8,717.5 | -777.0 | -353.0 | -760.1 | 0.00 | 0.00 | 0.00 |
| 8,900.0 | 0.00 | 0.00 | 8,817.5 | -777.0 | -353.0 | -760.1 | 0.00 | 0.00 | 0.00 |
| 9,000.0 | 0.00 | 0.00 | 8,917.5 | -777.0 | -353.0 | -760.1 | 0.00 | 0.00 | 0.00 |
| 9,100.0 | 0.00 | 0.00 | 9,017.5 | -777.0 | -353.0 | -760.1 | 0.00 | 0.00 | 0.00 |
| 9,200.0 | 0.00 | 0.00 | 9,117.5 | -777.0 | -353.0 | -760.1 | 0.00 | 0.00 | 0.00 |
| 9,300.0 | 0.00 | 0.00 | 9,217.5 | -777.0 | -353.0 | -760.1 | 0.00 | 0.00 | 0.00 |
| 9,400.0 | 0.00 | 0.00 | 9,317.5 | -777.0 | -353.0 | -760.1 | 0.00 | 0.00 | 0.00 |
| 9,414.0 | 0.00 | 0.00 | 9,331.5 | -777.0 | -353.0 | -760.1 | 0.00 | 0.00 | 0.00 |
| KOP(Date 14 State Com #201H) | | | | | | | | | |
| 9,425.0 | 1.32 | 358.85 | 9,342.5 | -776.9 | -353.0 | -760.0 | 12.00 | 12.00 | 0.00 |
| 9,450.0 | 4.32 | 358.85 | 9,367.4 | -775.6 | -353.0 | -758.8 | 12.00 | 12.00 | 0.00 |
| 9,475.0 | 7.32 | 358.85 | 9,392.3 | -773.1 | -353.1 | -756.2 | 12.00 | 12.00 | 0.00 |
| 9,500.0 | 10.32 | 358.85 | 9,417.0 | -769.3 | -353.2 | -752.4 | 12.00 | 12.00 | 0.00 |
| 9,525.0 | 13.32 | 358.85 | 9,441.5 | -764.2 | -353.3 | -747.3 | 12.00 | 12.00 | 0.00 |
| 9,550.0 | 16.32 | 358.85 | 9,465.6 | -757.8 | -353.4 | -740.9 | 12.00 | 12.00 | 0.00 |



Planning Report

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|------------------|-----------------------------|-------------------------------------|---------------------|
| Database: | PEDM | Local Co-ordinate Reference: | Well #201H |
| Company: | Midland | TVD Reference: | kb=25' @ 3839.0usft |
| Project: | Lea County, NM (NAD 83 NME) | MD Reference: | kb=25' @ 3839.0usft |
| Site: | Date 14 State Com | North Reference: | Grid |
| Well: | #201H | 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) |
| 9,575.0 | 19.32 | 358.85 | 9,489.4 | -750.1 | -353.5 | -733.2 | 12.00 | 12.00 | 0.00 |
| 9,600.0 | 22.32 | 358.85 | 9,512.8 | -741.2 | -353.7 | -724.3 | 12.00 | 12.00 | 0.00 |
| 9,625.0 | 25.32 | 358.85 | 9,535.7 | -731.1 | -353.9 | -714.3 | 12.00 | 12.00 | 0.00 |
| 9,634.5 | 26.46 | 358.85 | 9,544.2 | -727.0 | -354.0 | -710.1 | 12.00 | 12.00 | 0.00 |
| FTP(Date 14 State Com #201H) | | | | | | | | | |
| 9,650.0 | 28.32 | 358.91 | 9,558.0 | -719.9 | -354.1 | -703.0 | 12.00 | 12.00 | 0.34 |
| 9,675.0 | 31.32 | 358.98 | 9,579.7 | -707.4 | -354.4 | -690.6 | 12.00 | 12.00 | 0.29 |
| 9,700.0 | 34.32 | 359.04 | 9,600.7 | -693.9 | -354.6 | -677.0 | 12.00 | 12.00 | 0.24 |
| 9,725.0 | 37.32 | 359.09 | 9,620.9 | -679.3 | -354.8 | -662.4 | 12.00 | 12.00 | 0.21 |
| 9,750.0 | 40.32 | 359.14 | 9,640.4 | -663.6 | -355.1 | -646.7 | 12.00 | 12.00 | 0.18 |
| 9,775.0 | 43.32 | 359.18 | 9,659.0 | -646.9 | -355.3 | -630.1 | 12.00 | 12.00 | 0.16 |
| 9,800.0 | 46.32 | 359.21 | 9,676.8 | -629.3 | -355.6 | -612.4 | 12.00 | 12.00 | 0.14 |
| 9,825.0 | 49.32 | 359.25 | 9,693.5 | -610.8 | -355.8 | -593.9 | 12.00 | 12.00 | 0.13 |
| 9,850.0 | 52.32 | 359.28 | 9,709.3 | -591.4 | -356.1 | -574.6 | 12.00 | 12.00 | 0.12 |
| 9,875.0 | 55.32 | 359.30 | 9,724.1 | -571.2 | -356.3 | -554.4 | 12.00 | 12.00 | 0.11 |
| 9,900.0 | 58.32 | 359.33 | 9,737.8 | -550.3 | -356.6 | -533.5 | 12.00 | 12.00 | 0.10 |
| 9,925.0 | 61.32 | 359.35 | 9,750.3 | -528.7 | -356.8 | -511.9 | 12.00 | 12.00 | 0.10 |
| 9,950.0 | 64.32 | 359.37 | 9,761.8 | -506.5 | -357.1 | -489.7 | 12.00 | 12.00 | 0.09 |
| 9,975.0 | 67.32 | 359.40 | 9,772.0 | -483.7 | -357.3 | -466.9 | 12.00 | 12.00 | 0.09 |
| 10,000.0 | 70.32 | 359.42 | 9,781.0 | -460.4 | -357.6 | -443.6 | 12.00 | 12.00 | 0.08 |
| 10,025.0 | 73.32 | 359.44 | 9,788.8 | -436.6 | -357.8 | -419.9 | 12.00 | 12.00 | 0.08 |
| 10,050.0 | 76.32 | 359.46 | 9,795.4 | -412.5 | -358.0 | -395.7 | 12.00 | 12.00 | 0.08 |
| 10,075.0 | 79.32 | 359.47 | 9,800.6 | -388.1 | -358.3 | -371.3 | 12.00 | 12.00 | 0.07 |
| 10,100.0 | 82.32 | 359.49 | 9,804.6 | -363.4 | -358.5 | -346.7 | 12.00 | 12.00 | 0.07 |
| 10,125.0 | 85.32 | 359.51 | 9,807.3 | -338.5 | -358.7 | -321.8 | 12.00 | 12.00 | 0.07 |
| 10,150.0 | 88.32 | 359.53 | 9,808.7 | -313.6 | -358.9 | -296.9 | 12.00 | 12.00 | 0.07 |
| 10,164.0 | 90.00 | 359.54 | 9,808.9 | -299.6 | -359.0 | -282.9 | 12.00 | 12.00 | 0.07 |
| 10,200.0 | 90.00 | 359.54 | 9,808.9 | -263.6 | -359.3 | -246.9 | 0.00 | 0.00 | 0.00 |
| 10,300.0 | 90.00 | 359.54 | 9,808.9 | -163.6 | -360.1 | -147.0 | 0.00 | 0.00 | 0.00 |
| 10,400.0 | 90.00 | 359.54 | 9,808.9 | -63.6 | -360.9 | -47.1 | 0.00 | 0.00 | 0.00 |
| 10,500.0 | 90.00 | 359.54 | 9,808.9 | 36.4 | -361.7 | 52.9 | 0.00 | 0.00 | 0.00 |
| 10,600.0 | 90.00 | 359.54 | 9,808.9 | 136.4 | -362.5 | 152.8 | 0.00 | 0.00 | 0.00 |
| 10,700.0 | 90.00 | 359.54 | 9,808.9 | 236.4 | -363.3 | 252.7 | 0.00 | 0.00 | 0.00 |
| 10,800.0 | 90.00 | 359.54 | 9,808.9 | 336.4 | -364.1 | 352.7 | 0.00 | 0.00 | 0.00 |
| 10,900.0 | 90.00 | 359.54 | 9,808.9 | 436.4 | -365.0 | 452.6 | 0.00 | 0.00 | 0.00 |
| 11,000.0 | 90.00 | 359.54 | 9,808.9 | 536.4 | -365.8 | 552.5 | 0.00 | 0.00 | 0.00 |
| 11,100.0 | 90.00 | 359.54 | 9,808.9 | 636.4 | -366.6 | 652.4 | 0.00 | 0.00 | 0.00 |
| 11,200.0 | 90.00 | 359.54 | 9,808.9 | 736.4 | -367.4 | 752.4 | 0.00 | 0.00 | 0.00 |
| 11,300.0 | 90.00 | 359.54 | 9,808.9 | 836.4 | -368.2 | 852.3 | 0.00 | 0.00 | 0.00 |
| 11,400.0 | 90.00 | 359.54 | 9,808.9 | 936.4 | -369.0 | 952.2 | 0.00 | 0.00 | 0.00 |
| 11,500.0 | 90.00 | 359.54 | 9,808.9 | 1,036.4 | -369.8 | 1,052.2 | 0.00 | 0.00 | 0.00 |
| 11,600.0 | 90.00 | 359.54 | 9,808.9 | 1,136.4 | -370.6 | 1,152.1 | 0.00 | 0.00 | 0.00 |
| 11,700.0 | 90.00 | 359.54 | 9,808.9 | 1,236.4 | -371.4 | 1,252.0 | 0.00 | 0.00 | 0.00 |
| 11,800.0 | 90.00 | 359.54 | 9,808.9 | 1,336.4 | -372.2 | 1,352.0 | 0.00 | 0.00 | 0.00 |
| 11,900.0 | 90.00 | 359.54 | 9,808.9 | 1,436.4 | -373.0 | 1,451.9 | 0.00 | 0.00 | 0.00 |
| 12,000.0 | 90.00 | 359.54 | 9,808.9 | 1,536.4 | -373.8 | 1,551.8 | 0.00 | 0.00 | 0.00 |
| 12,100.0 | 90.00 | 359.54 | 9,808.9 | 1,636.4 | -374.6 | 1,651.7 | 0.00 | 0.00 | 0.00 |
| 12,200.0 | 90.00 | 359.54 | 9,808.9 | 1,736.4 | -375.4 | 1,751.7 | 0.00 | 0.00 | 0.00 |
| 12,300.0 | 90.00 | 359.54 | 9,808.9 | 1,836.4 | -376.2 | 1,851.6 | 0.00 | 0.00 | 0.00 |
| 12,400.0 | 90.00 | 359.54 | 9,808.9 | 1,936.4 | -377.0 | 1,951.5 | 0.00 | 0.00 | 0.00 |
| 12,500.0 | 90.00 | 359.54 | 9,808.9 | 2,036.4 | -377.8 | 2,051.5 | 0.00 | 0.00 | 0.00 |
| 12,600.0 | 90.00 | 359.54 | 9,808.9 | 2,136.4 | -378.7 | 2,151.4 | 0.00 | 0.00 | 0.00 |
| 12,700.0 | 90.00 | 359.54 | 9,808.9 | 2,236.3 | -379.5 | 2,251.3 | 0.00 | 0.00 | 0.00 |
| 12,800.0 | 90.00 | 359.54 | 9,808.9 | 2,336.3 | -380.3 | 2,351.2 | 0.00 | 0.00 | 0.00 |



Planning Report

| | | | |
|------------------|-----------------------------|-------------------------------------|---------------------|
| Database: | PEDM | Local Co-ordinate Reference: | Well #201H |
| Company: | Midland | TVD Reference: | kb=25' @ 3839.0usft |
| Project: | Lea County, NM (NAD 83 NME) | MD Reference: | kb=25' @ 3839.0usft |
| Site: | Date 14 State Com | North Reference: | Grid |
| Well: | #201H | 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) |
| 12,900.0 | 90.00 | 359.54 | 9,808.9 | 2,436.3 | -381.1 | 2,451.2 | 0.00 | 0.00 | 0.00 |
| 13,000.0 | 90.00 | 359.54 | 9,808.9 | 2,536.3 | -381.9 | 2,551.1 | 0.00 | 0.00 | 0.00 |
| 13,100.0 | 90.00 | 359.54 | 9,808.9 | 2,636.3 | -382.7 | 2,651.0 | 0.00 | 0.00 | 0.00 |
| 13,200.0 | 90.00 | 359.54 | 9,808.9 | 2,736.3 | -383.5 | 2,751.0 | 0.00 | 0.00 | 0.00 |
| 13,300.0 | 90.00 | 359.54 | 9,808.9 | 2,836.3 | -384.3 | 2,850.9 | 0.00 | 0.00 | 0.00 |
| 13,400.0 | 90.00 | 359.54 | 9,808.9 | 2,936.3 | -385.1 | 2,950.8 | 0.00 | 0.00 | 0.00 |
| 13,500.0 | 90.00 | 359.54 | 9,808.9 | 3,036.3 | -385.9 | 3,050.8 | 0.00 | 0.00 | 0.00 |
| 13,600.0 | 90.00 | 359.54 | 9,808.9 | 3,136.3 | -386.7 | 3,150.7 | 0.00 | 0.00 | 0.00 |
| 13,700.0 | 90.00 | 359.54 | 9,808.9 | 3,236.3 | -387.5 | 3,250.6 | 0.00 | 0.00 | 0.00 |
| 13,800.0 | 90.00 | 359.54 | 9,808.9 | 3,336.3 | -388.3 | 3,350.5 | 0.00 | 0.00 | 0.00 |
| 13,900.0 | 90.00 | 359.54 | 9,808.9 | 3,436.3 | -389.1 | 3,450.5 | 0.00 | 0.00 | 0.00 |
| 14,000.0 | 90.00 | 359.54 | 9,808.9 | 3,536.3 | -389.9 | 3,550.4 | 0.00 | 0.00 | 0.00 |
| 14,100.0 | 90.00 | 359.54 | 9,808.9 | 3,636.3 | -390.7 | 3,650.3 | 0.00 | 0.00 | 0.00 |
| 14,200.0 | 90.00 | 359.54 | 9,808.9 | 3,736.3 | -391.5 | 3,750.3 | 0.00 | 0.00 | 0.00 |
| 14,300.0 | 90.00 | 359.54 | 9,808.9 | 3,836.3 | -392.4 | 3,850.2 | 0.00 | 0.00 | 0.00 |
| 14,400.0 | 90.00 | 359.54 | 9,809.0 | 3,936.3 | -393.2 | 3,950.1 | 0.00 | 0.00 | 0.00 |
| 14,500.0 | 90.00 | 359.54 | 9,809.0 | 4,036.3 | -394.0 | 4,050.1 | 0.00 | 0.00 | 0.00 |
| 14,600.0 | 90.00 | 359.54 | 9,809.0 | 4,136.3 | -394.8 | 4,150.0 | 0.00 | 0.00 | 0.00 |
| 14,700.0 | 90.00 | 359.54 | 9,809.0 | 4,236.3 | -395.6 | 4,249.9 | 0.00 | 0.00 | 0.00 |
| 14,800.0 | 90.00 | 359.54 | 9,809.0 | 4,336.3 | -396.4 | 4,349.8 | 0.00 | 0.00 | 0.00 |
| 14,900.0 | 90.00 | 359.54 | 9,809.0 | 4,436.3 | -397.2 | 4,449.8 | 0.00 | 0.00 | 0.00 |
| 15,000.0 | 90.00 | 359.54 | 9,809.0 | 4,536.3 | -398.0 | 4,549.7 | 0.00 | 0.00 | 0.00 |
| 15,100.0 | 90.00 | 359.54 | 9,809.0 | 4,636.3 | -398.8 | 4,649.6 | 0.00 | 0.00 | 0.00 |
| 15,200.0 | 90.00 | 359.54 | 9,809.0 | 4,736.3 | -399.6 | 4,749.6 | 0.00 | 0.00 | 0.00 |
| 15,300.0 | 90.00 | 359.54 | 9,809.0 | 4,836.3 | -400.4 | 4,849.5 | 0.00 | 0.00 | 0.00 |
| 15,400.0 | 90.00 | 359.54 | 9,809.0 | 4,936.3 | -401.2 | 4,949.4 | 0.00 | 0.00 | 0.00 |
| 15,500.0 | 90.00 | 359.54 | 9,809.0 | 5,036.3 | -402.0 | 5,049.3 | 0.00 | 0.00 | 0.00 |
| 15,600.0 | 90.00 | 359.54 | 9,809.0 | 5,136.3 | -402.8 | 5,149.3 | 0.00 | 0.00 | 0.00 |
| 15,700.0 | 90.00 | 359.54 | 9,809.0 | 5,236.3 | -403.6 | 5,249.2 | 0.00 | 0.00 | 0.00 |
| 15,800.0 | 90.00 | 359.54 | 9,809.0 | 5,336.2 | -404.4 | 5,349.1 | 0.00 | 0.00 | 0.00 |
| 15,900.0 | 90.00 | 359.54 | 9,809.0 | 5,436.2 | -405.3 | 5,449.1 | 0.00 | 0.00 | 0.00 |
| 16,000.0 | 90.00 | 359.54 | 9,809.0 | 5,536.2 | -406.1 | 5,549.0 | 0.00 | 0.00 | 0.00 |
| 16,100.0 | 90.00 | 359.54 | 9,809.0 | 5,636.2 | -406.9 | 5,648.9 | 0.00 | 0.00 | 0.00 |
| 16,200.0 | 90.00 | 359.54 | 9,809.0 | 5,736.2 | -407.7 | 5,748.9 | 0.00 | 0.00 | 0.00 |
| 16,300.0 | 90.00 | 359.54 | 9,809.0 | 5,836.2 | -408.5 | 5,848.8 | 0.00 | 0.00 | 0.00 |
| 16,400.0 | 90.00 | 359.54 | 9,809.0 | 5,936.2 | -409.3 | 5,948.7 | 0.00 | 0.00 | 0.00 |
| 16,500.0 | 90.00 | 359.54 | 9,809.0 | 6,036.2 | -410.1 | 6,048.6 | 0.00 | 0.00 | 0.00 |
| 16,600.0 | 90.00 | 359.54 | 9,809.0 | 6,136.2 | -410.9 | 6,148.6 | 0.00 | 0.00 | 0.00 |
| 16,700.0 | 90.00 | 359.54 | 9,809.0 | 6,236.2 | -411.7 | 6,248.5 | 0.00 | 0.00 | 0.00 |
| 16,800.0 | 90.00 | 359.54 | 9,809.0 | 6,336.2 | -412.5 | 6,348.4 | 0.00 | 0.00 | 0.00 |
| 16,900.0 | 90.00 | 359.54 | 9,809.0 | 6,436.2 | -413.3 | 6,448.4 | 0.00 | 0.00 | 0.00 |
| 17,000.0 | 90.00 | 359.54 | 9,809.0 | 6,536.2 | -414.1 | 6,548.3 | 0.00 | 0.00 | 0.00 |
| 17,100.0 | 90.00 | 359.54 | 9,809.0 | 6,636.2 | -414.9 | 6,648.2 | 0.00 | 0.00 | 0.00 |
| 17,200.0 | 90.00 | 359.54 | 9,809.0 | 6,736.2 | -415.7 | 6,748.1 | 0.00 | 0.00 | 0.00 |
| 17,300.0 | 90.00 | 359.54 | 9,809.0 | 6,836.2 | -416.5 | 6,848.1 | 0.00 | 0.00 | 0.00 |
| 17,400.0 | 90.00 | 359.54 | 9,809.0 | 6,936.2 | -417.3 | 6,948.0 | 0.00 | 0.00 | 0.00 |
| 17,500.0 | 90.00 | 359.54 | 9,809.0 | 7,036.2 | -418.1 | 7,047.9 | 0.00 | 0.00 | 0.00 |
| 17,600.0 | 90.00 | 359.54 | 9,809.0 | 7,136.2 | -419.0 | 7,147.9 | 0.00 | 0.00 | 0.00 |
| 17,700.0 | 90.00 | 359.54 | 9,809.0 | 7,236.2 | -419.8 | 7,247.8 | 0.00 | 0.00 | 0.00 |
| 17,800.0 | 90.00 | 359.54 | 9,809.0 | 7,336.2 | -420.6 | 7,347.7 | 0.00 | 0.00 | 0.00 |
| 17,900.0 | 90.00 | 359.54 | 9,809.0 | 7,436.2 | -421.4 | 7,447.7 | 0.00 | 0.00 | 0.00 |
| 18,000.0 | 90.00 | 359.54 | 9,809.0 | 7,536.2 | -422.2 | 7,547.6 | 0.00 | 0.00 | 0.00 |
| 18,100.0 | 90.00 | 359.54 | 9,809.0 | 7,636.2 | -423.0 | 7,647.5 | 0.00 | 0.00 | 0.00 |
| 18,200.0 | 90.00 | 359.54 | 9,809.0 | 7,736.2 | -423.8 | 7,747.4 | 0.00 | 0.00 | 0.00 |

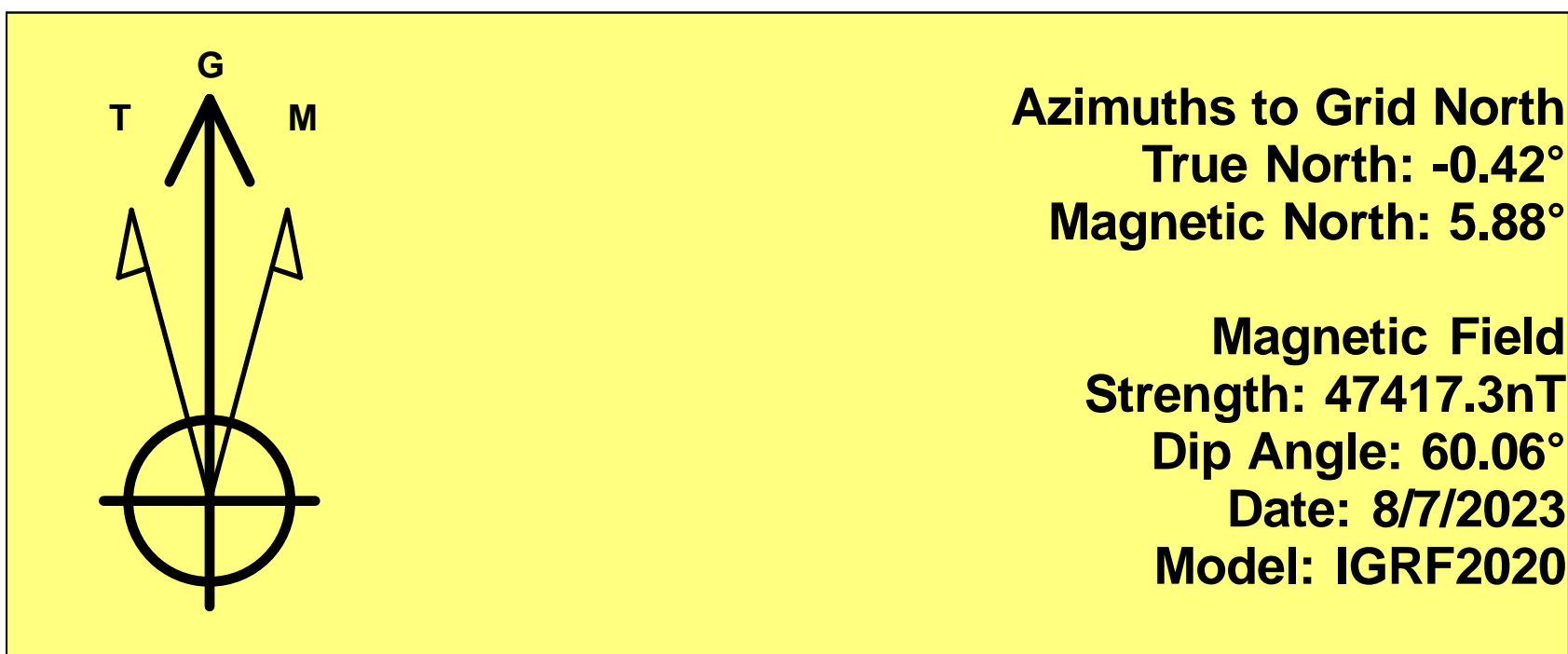
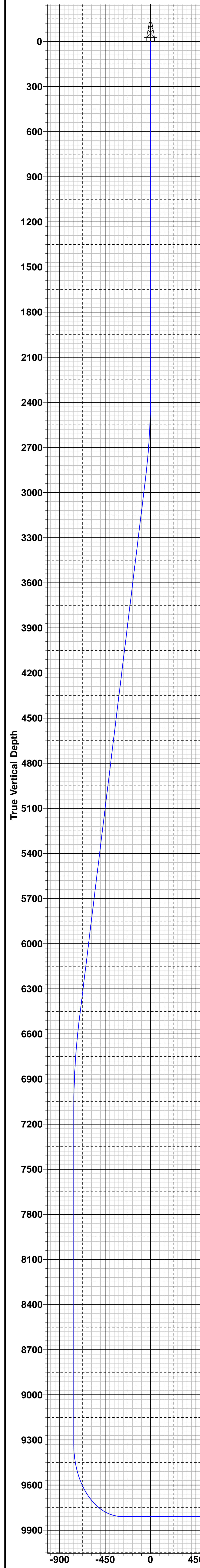


Planning Report

| | | | |
|------------------|-----------------------------|-------------------------------------|---------------------|
| Database: | PEDM | Local Co-ordinate Reference: | Well #201H |
| Company: | Midland | TVD Reference: | kb=25' @ 3839.0usft |
| Project: | Lea County, NM (NAD 83 NME) | MD Reference: | kb=25' @ 3839.0usft |
| Site: | Date 14 State Com | North Reference: | Grid |
| Well: | #201H | 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) | |
| 18,300.0 | 90.00 | 359.54 | 9,809.0 | 7,836.2 | -424.6 | 7,847.4 | 0.00 | 0.00 | 0.00 | |
| 18,400.0 | 90.00 | 359.54 | 9,809.0 | 7,936.2 | -425.4 | 7,947.3 | 0.00 | 0.00 | 0.00 | |
| 18,500.0 | 90.00 | 359.54 | 9,809.0 | 8,036.2 | -426.2 | 8,047.2 | 0.00 | 0.00 | 0.00 | |
| 18,600.0 | 90.00 | 359.54 | 9,809.0 | 8,136.2 | -427.0 | 8,147.2 | 0.00 | 0.00 | 0.00 | |
| 18,700.0 | 90.00 | 359.54 | 9,809.0 | 8,236.2 | -427.8 | 8,247.1 | 0.00 | 0.00 | 0.00 | |
| 18,800.0 | 90.00 | 359.54 | 9,809.0 | 8,336.1 | -428.6 | 8,347.0 | 0.00 | 0.00 | 0.00 | |
| 18,900.0 | 90.00 | 359.54 | 9,809.0 | 8,436.1 | -429.4 | 8,447.0 | 0.00 | 0.00 | 0.00 | |
| 19,000.0 | 90.00 | 359.54 | 9,809.0 | 8,536.1 | -430.2 | 8,546.9 | 0.00 | 0.00 | 0.00 | |
| 19,100.0 | 90.00 | 359.54 | 9,809.0 | 8,636.1 | -431.0 | 8,646.8 | 0.00 | 0.00 | 0.00 | |
| 19,200.0 | 90.00 | 359.54 | 9,809.0 | 8,736.1 | -431.9 | 8,746.7 | 0.00 | 0.00 | 0.00 | |
| 19,300.0 | 90.00 | 359.54 | 9,809.0 | 8,836.1 | -432.7 | 8,846.7 | 0.00 | 0.00 | 0.00 | |
| 19,400.0 | 90.00 | 359.54 | 9,809.0 | 8,936.1 | -433.5 | 8,946.6 | 0.00 | 0.00 | 0.00 | |
| 19,500.0 | 90.00 | 359.54 | 9,809.0 | 9,036.1 | -434.3 | 9,046.5 | 0.00 | 0.00 | 0.00 | |
| 19,600.0 | 90.00 | 359.54 | 9,809.0 | 9,136.1 | -435.1 | 9,146.5 | 0.00 | 0.00 | 0.00 | |
| 19,700.0 | 90.00 | 359.54 | 9,809.0 | 9,236.1 | -435.9 | 9,246.4 | 0.00 | 0.00 | 0.00 | |
| 19,800.0 | 90.00 | 359.54 | 9,809.0 | 9,336.1 | -436.7 | 9,346.3 | 0.00 | 0.00 | 0.00 | |
| 19,900.0 | 90.00 | 359.54 | 9,809.0 | 9,436.1 | -437.5 | 9,446.2 | 0.00 | 0.00 | 0.00 | |
| 20,000.0 | 90.00 | 359.54 | 9,809.0 | 9,536.1 | -438.3 | 9,546.2 | 0.00 | 0.00 | 0.00 | |
| 20,086.9 | 90.00 | 359.54 | 9,809.0 | 9,623.0 | -439.0 | 9,633.0 | 0.00 | 0.00 | 0.00 | |
| PBHL(Date 14 State Com #201H) | | | | | | | | | | |

| Design Targets | | | | | | | | | |
|----------------------------------------------------------------|---------------|--------------|------------|--------------|--------------|-----------------|----------------|------------------|------------------|
| Target Name - hit/miss target - Shape | Dip Angle (°) | Dip Dir. (°) | TVD (usft) | +N/-S (usft) | +E/-W (usft) | Northing (usft) | Easting (usft) | Latitude | Longitude |
| KOP(Date 14 State Cor - plan hits target center - Point | 0.00 | 0.00 | 9,331.5 | -777.0 | -353.0 | 536,223.00 | 782,797.00 | 32° 28' 18.139 N | 103° 33' 1.358 W |
| FTP(Date 14 State Com - plan hits target center - Point | 0.00 | 0.00 | 9,544.2 | -727.0 | -354.0 | 536,273.00 | 782,796.00 | 32° 28' 18.633 N | 103° 33' 1.365 W |
| PBHL(Date 14 State Coi - plan hits target center - Point | 0.00 | 0.00 | 9,809.0 | 9,623.0 | -439.0 | 546,623.00 | 782,711.00 | 32° 30' 1.050 N | 103° 33' 1.471 W |



To convert a Magnetic Direction to a Grid Direction, Add 5.88°
To convert a Magnetic Direction to a True Direction, Add 6.30° East
To convert a True Direction to a Grid Direction, Subtract 0.42°

| WELL DETAILS: #201H | | | | |
|----------------------------|-----------|------------------|-------------------|--|
| kb=25' @ 3839.0usft 3814.0 | | | | |
| Northing | Easting | Latitude | Longitude | |
| 537000.00 | 783150.00 | 32° 28' 25.801 N | 103° 32' 57.171 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 | 2343.0 | 0.00 | 0.00 | 2343.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.0 | |
| 3 | 2921.7 | 11.57 | 204.43 | 2917.7 | -53.0 | -24.1 | 2.00 | 204.43 | -51.9 | |
| 4 | 6594.9 | 11.57 | 204.43 | 6516.3 | -724.0 | -328.9 | 0.00 | 0.00 | -708.2 | |
| 5 | 7173.5 | 0.00 | 0.00 | 7091.0 | -777.0 | -353.0 | 2.00 | 180.00 | -760.1 | |
| 6 | 9414.0 | 0.00 | 0.00 | 9331.5 | -777.0 | -353.0 | 0.00 | 0.00 | -760.1 | KOP(Date 14 State Com #201H) |
| 7 | 9634.5 | 26.46 | 358.85 | 9544.2 | -727.0 | -354.0 | 12.00 | 358.85 | -710.1 | FTP(Date 14 State Com #201H) |
| 8 | 10164.0 | 90.00 | 359.54 | 9808.9 | -299.6 | -359.0 | 12.00 | 0.76 | -282.9 | |
| 9 | 20086.9 | 90.00 | 359.54 | 9809.0 | 9623.0 | -439.0 | 0.00 | 0.00 | 9633.0 | PBHL(Date 14 State Com #201H) |

| CASING DETAILS |
|-----------------------------|
| No casing data is available |

| WELLBORE TARGET DETAILS (MAP CO-ORDINATES) | | | | | |
|--------------------------------------------|--------|--------|--------|-----------|-----------|
| Name | TVD | +N/-S | +E/-W | Northing | Easting |
| KOP(Date 14 State Com #201H) | 9331.5 | -777.0 | -353.0 | 536223.00 | 782797.00 |
| FTP(Date 14 State Com #201H) | 9544.2 | -727.0 | -354.0 | 536273.00 | 782796.00 |
| PBHL(Date 14 State Com #201H) | 9809.0 | 9623.0 | -439.0 | 546623.00 | 782711.00 |

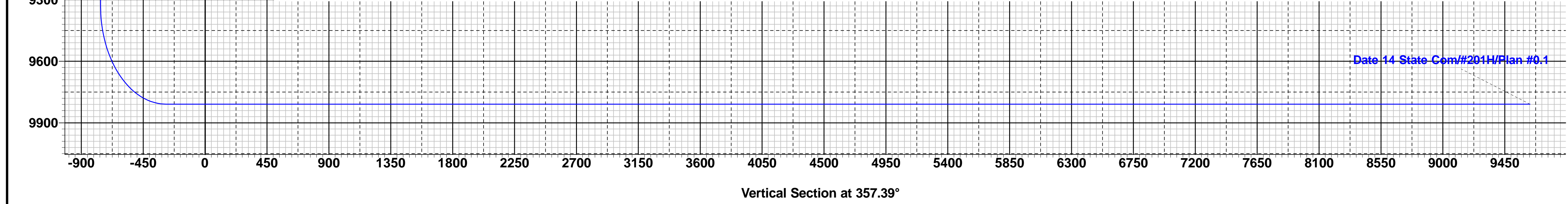
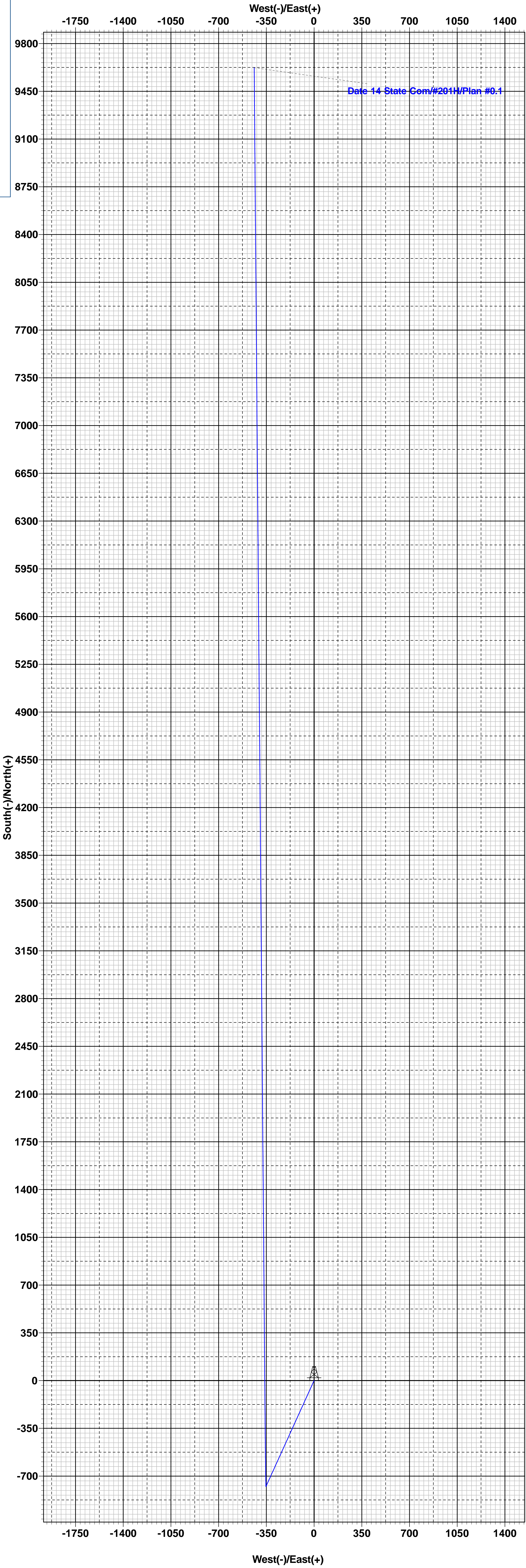
Lea County, NM (NAD 83 NME)

Date 14 State Com #201H

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



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:** 8/17/2023

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 |
|------------------------|-----|--------------|---------------------|-----------------------|-----------------------|----------------------------------|
| DATE 14 STATE COM 201H | | M-14-21S-33E | 286' FSL & 789' FWL | +/- 1000 | +/- 3500 | +/- 3000 |
| | | | | | | |

IV. Central Delivery Point Name: COBALT 32 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 |
|------------------------|-----|-----------|-----------------|------------------------------|------------------------|-----------------------|
| DATE 14 STATE COM 201H | | 9/01/23 | 9/15/23 | 11/08/23 | 12/08/23 | 1/08/24 |
| | | | | | | |

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: <i>Star L Harrell</i> |
| Printed Name: Star L Harrell |
| Title: Sr Regulatory Specialist |
| E-mail Address: Star_Harrell@eogresources.com |
| Date: 8/17/2023 |
| 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

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- 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





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Figure 2: Cactus TA Plug and Offline Adapter Schematic





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Figure 3: Back Yard Rig Up



*** All Lines 10M rated working pressure



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Figure 4: Rig Placement Diagram





Salt Section Annular Clearance Variance Request

Daniel Moose

Current Design (Salt Strings)

0.422" Annular clearance requirement

- Casing collars shall have a minimum clearance of 0.422 inches on all sides in the hole/casing annulus, with recognition that variances can be granted for justified exceptions.

- 12.25" Hole x 9.625" 40# J55/HCK55 LTC Casing
 - 1.3125" Clearance to casing OD
 - 0.8125" Clearance to coupling OD
- 9.875" Hole x 8.75" 38.5# P110 Sprint-SF Casing
 - 0.5625" Clearance to casing OD
 - 0.433" Clearance to coupling OD

Annular Clearance Variance Request

EOG request permission to allow deviation from the 0.422" annulus clearance requirement for the intermediate (salt) section from Onshore Order #2 under the following conditions:

- The variance is not applicable within the Potash Boundaries or Capitan Reef areas.
- Operator takes responsibility to get casing to set point in the event that the clearance causes stuck pipe issues

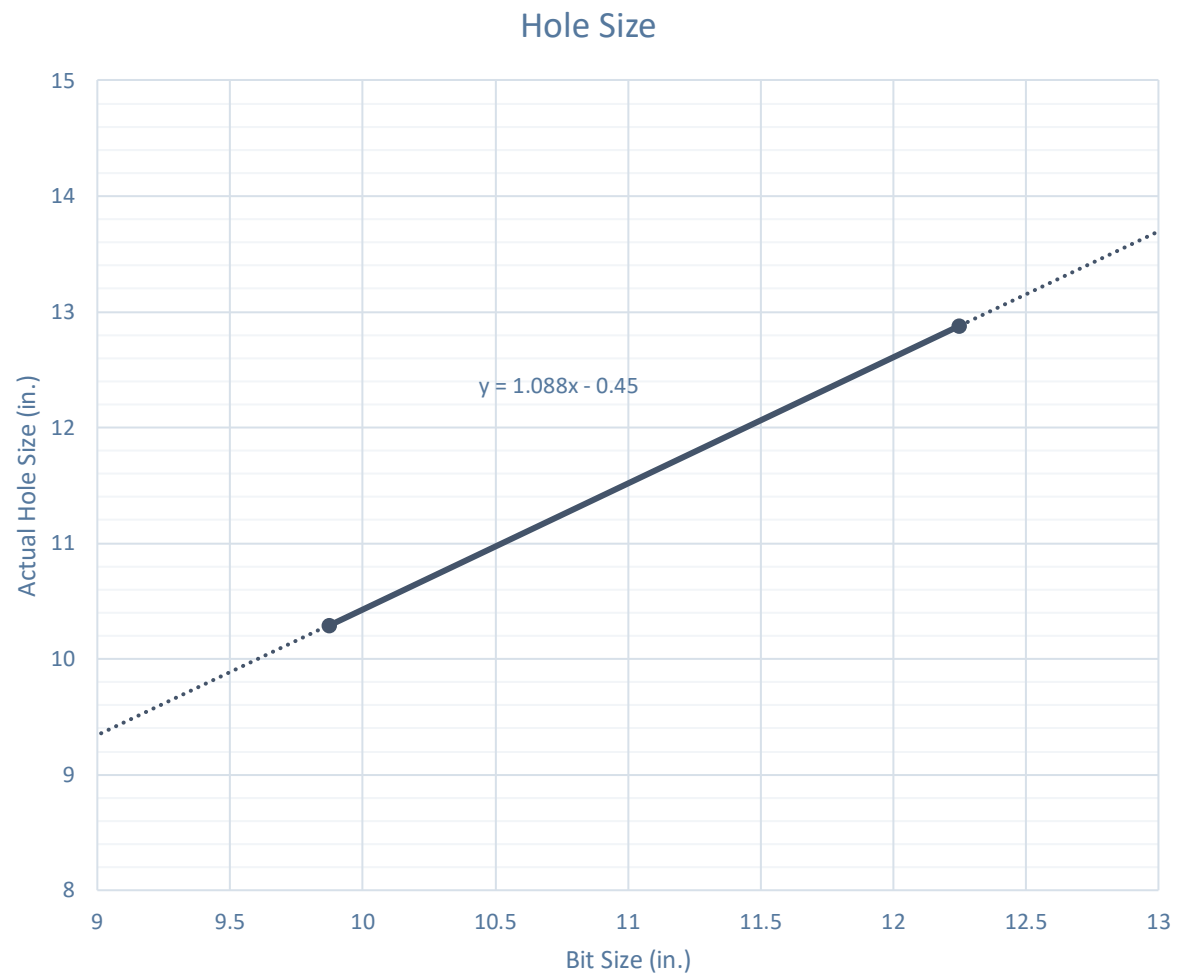
Volumetric Hole Size Calculation

Hole Size Calculations Off Cement Volumes

- Known volume of cement pumped
- Known volume of cement returned to surface
- Must not have had any losses
- Must have bumped plug

Average Hole Size

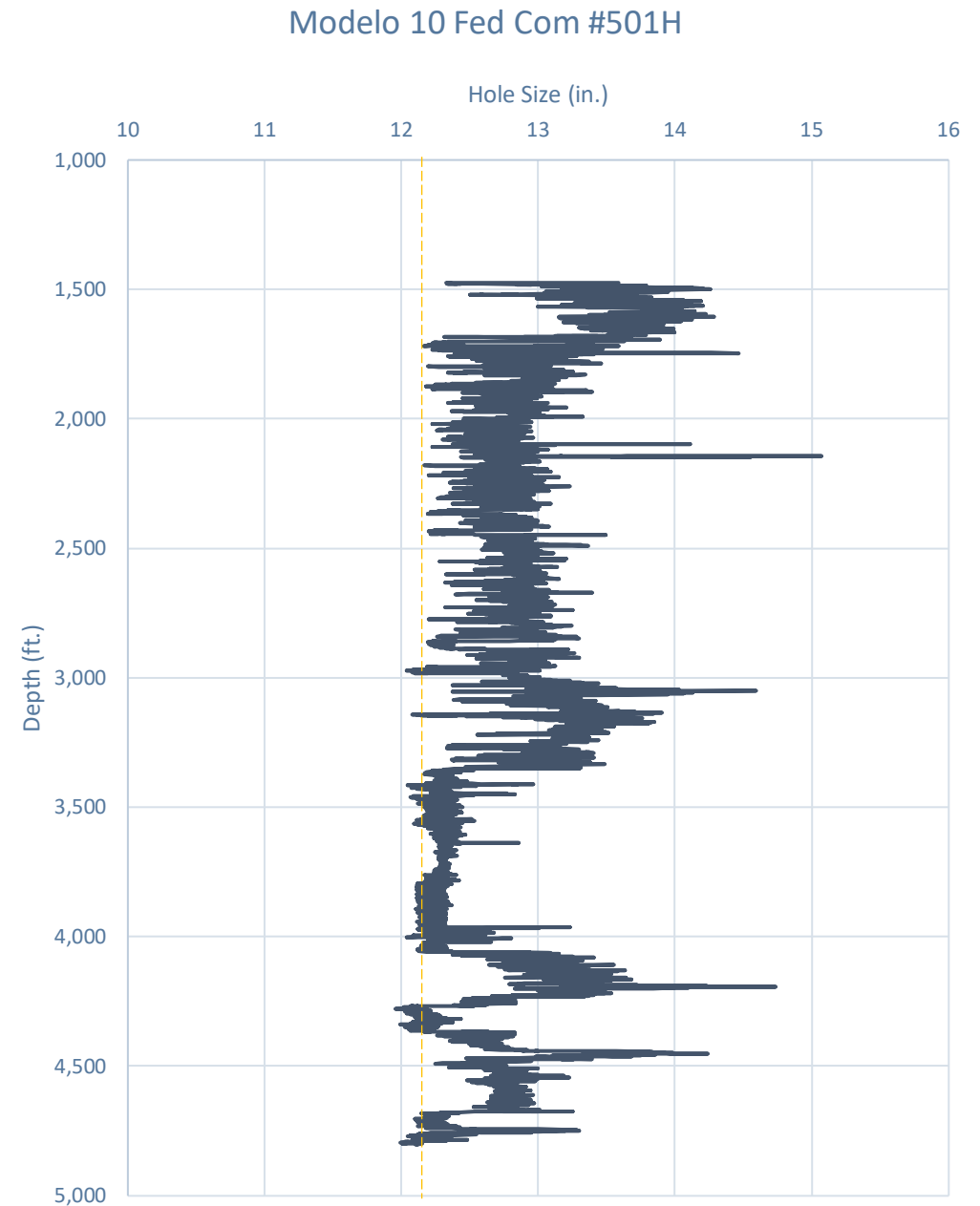
- 12.25" Hole
 - 12.88" Hole
 - 5.13% diameter increase
 - 10.52% area increase
 - 0.63" Average enlargement
 - 0.58" Median enlargement
 - 179 Well Count
- 9.875" Hole
 - 10.30" Hole
 - 4.24% diameter increase
 - 9.64% area increase
 - 0.42" Average enlargement
 - 0.46" Median enlargement
 - 11 Well Count



Caliper Hole Size (12.25")

Average Hole Size

- 12.25" Bit
 - 12.76" Hole
 - 4.14% diameter increase
 - 8.44% area increase
 - 0.51" Average enlargement
 - 0.52" Median enlargement
 - Brine

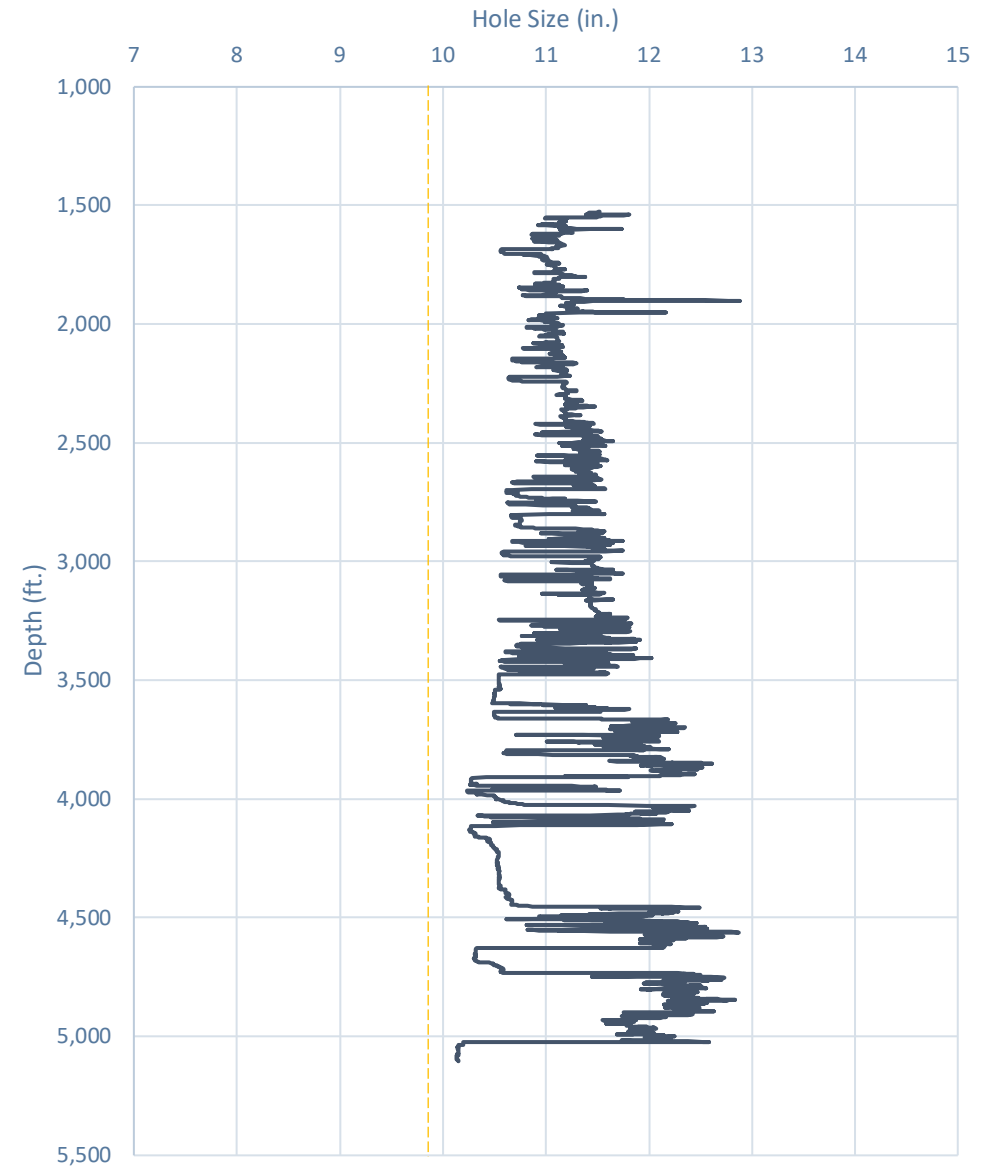


Caliper Hole Size (9.875")

Average Hole Size

- 9.875" Hole
 - 11.21" Hole
 - 13.54% diameter increase
 - 28.92% area increase
 - 1.33" Average enlargement
 - 1.30" Median enlargement
 - EnerLite

Whirling Wind 11 Fed Com #744H



Design A

Proposed 11" Hole with 9.625" 40# J55/HCK55 LTC Casing

- 11" Bit + 0.52" Average hole enlargement = 11.52" Hole Size
 - 0.9475" Clearance to casing OD

$$= \frac{11.52 - 9.625}{2}$$
 - 0.4475" Clearance to coupling OD

$$= \frac{11.52 - 10.625}{2}$$
- Previous Shoe – 13.375" 54.5# J55 STC
 - 0.995" Clearance to coupling OD (~1,200' overlap)

$$= \frac{12.615 - 10.625}{2}$$



Design B

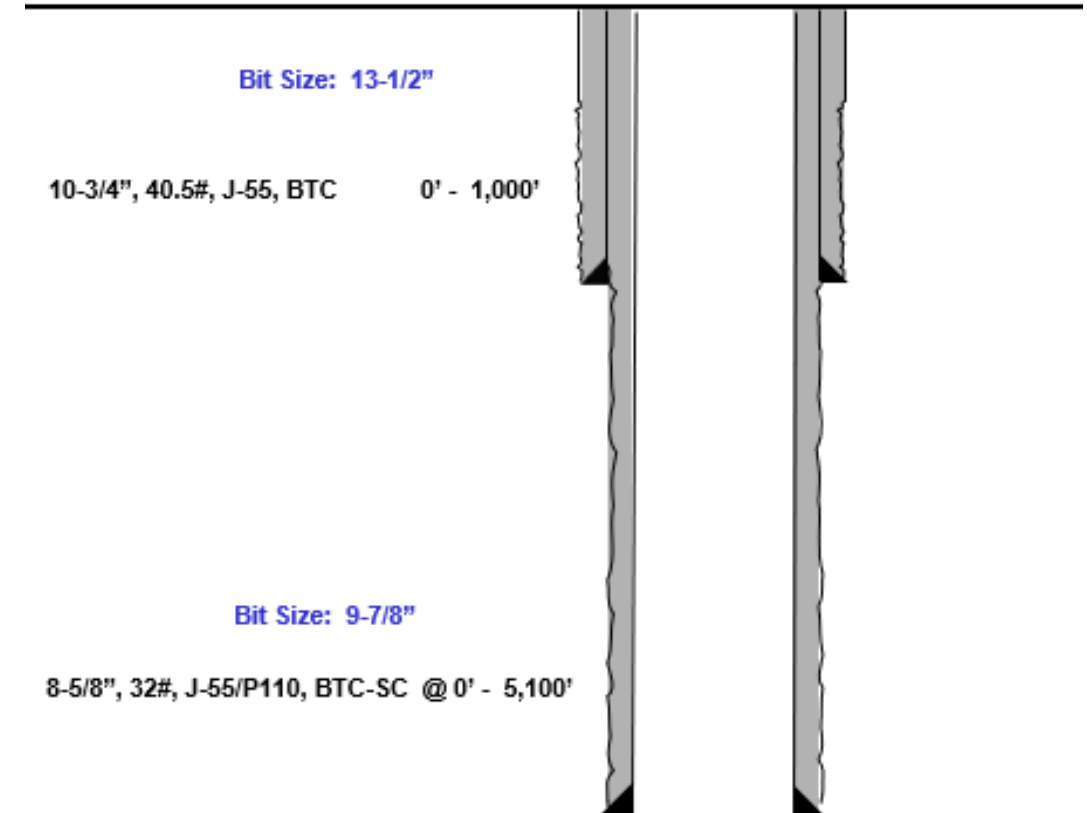
Proposed 9.875" Hole with 8.625" 32# J55/P110 BTC-SC Casing

- 9.875" Bit + 0.42" Average hole enlargement = 10.295" Hole Size
 - 0.835" Clearance to casing OD

$$= \frac{10.295 - 8.625}{2}$$
 - 0.585" Clearance to coupling OD

$$= \frac{10.295 - 9.125}{2}$$
- Previous Shoe – 10.75" 40.5# J55 STC
 - 0.4625" Clearance to coupling OD (~1,200' overlap)

$$= \frac{10.05 - 9.125}{2}$$





Index

Casing Spec Sheets

PERFORMANCE DATA

API LTC

Technical Data Sheet

9.625 in

40.00 lbs/ft

K55 HC

Tubular Parameters

| | | | | | |
|---------------------|--------|--------|------------------------------|-------|------|
| Size | 9.625 | in | Minimum Yield | 55 | ksi |
| Nominal Weight | 40.00 | lbs/ft | Minimum Tensile | 95 | ksi |
| Grade | K55 HC | | Yield Load | 629 | kips |
| PE Weight | 38.94 | lbs/ft | Tensile Load | 1088 | kips |
| Wall Thickness | 0.395 | in | Min. Internal Yield Pressure | 3,950 | psi |
| Nominal ID | 8.835 | in | Collapse Pressure | 3600 | psi |
| Drift Diameter | 8.750 | in | | | |
| Nom. Pipe Body Area | 11.454 | in² | | | |

Connection Parameters

| | | |
|------------------------------|--------|-------|
| Connection OD | 10.625 | in |
| Coupling Length | 10.500 | in |
| Threads Per Inch | 8 | tpi |
| Standoff Thread Turns | 3.50 | turns |
| Make-Up Loss | 4.750 | in |
| Min. Internal Yield Pressure | 3,950 | psi |

Pipe Body and API Connections Performance Data

13.375 54.50/0.380 J55

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USC ☒ Metric

6/8/2015 10:04:37 AM

| Mechanical Properties | Pipe | BTC | LTC | STC | |
|----------------------------------|--------|--------|-----|--------|----------|
| Minimum Yield Strength | 55,000 | -- | -- | -- | psi |
| Maximum Yield Strength | 80,000 | -- | -- | -- | psi |
| Minimum Tensile Strength | 75,000 | -- | -- | -- | psi |
| Dimensions | Pipe | BTC | LTC | STC | |
| Outside Diameter | 13.375 | 14.375 | -- | 14.375 | in. |
| Wall Thickness | 0.380 | -- | -- | -- | in. |
| Inside Diameter | 12.615 | 12.615 | -- | 12.615 | in. |
| Standard Drift | 12.459 | 12.459 | -- | 12.459 | in. |
| Alternate Drift | -- | -- | -- | -- | in. |
| Nominal Linear Weight, T&C | 54.50 | -- | -- | -- | lbs/ft |
| Plain End Weight | 52.79 | -- | -- | -- | lbs/ft |
| Performance | Pipe | BTC | LTC | STC | |
| Minimum Collapse Pressure | 1,130 | 1,130 | -- | 1,130 | psi |
| Minimum Internal Yield Pressure | 2,740 | 2,740 | -- | 2,740 | psi |
| Minimum Pipe Body Yield Strength | 853.00 | -- | -- | -- | 1000 lbs |
| Joint Strength | -- | 909 | -- | 514 | 1000 lbs |
| Reference Length | -- | 11,125 | -- | 6,290 | ft |
| Make-Up Data | Pipe | BTC | LTC | STC | |
| Make-Up Loss | -- | 4.81 | -- | 3.50 | in. |
| Minimum Make-Up Torque | -- | -- | -- | 3,860 | ft-lbs |
| Maximum Make-Up Torque | -- | -- | -- | 6,430 | ft-lbs |



Casing Spec Sheets

Pipe Body and API Connections Performance Data

10.750 40.50/0.350 J55

PDF

New Search »

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USC ☒ Metric

6/8/2015 10:14:05 AM

| Mechanical Properties | Pipe | BTC | LTC | STC | |
|----------------------------------|--------|--------|-----|--------|----------|
| Minimum Yield Strength | 55,000 | -- | -- | -- | psi |
| Maximum Yield Strength | 80,000 | -- | -- | -- | psi |
| Minimum Tensile Strength | 75,000 | -- | -- | -- | psi |
| Dimensions | Pipe | BTC | LTC | STC | |
| Outside Diameter | 10.750 | 11.750 | -- | 11.750 | in. |
| Wall Thickness | 0.350 | -- | -- | -- | in. |
| Inside Diameter | 10.050 | 10.050 | -- | 10.050 | in. |
| Standard Drift | 9.894 | 9.894 | -- | 9.894 | in. |
| Alternate Drift | -- | -- | -- | -- | in. |
| Nominal Linear Weight, T&C | 40.50 | -- | -- | -- | lbs/ft |
| Plain End Weight | 38.91 | -- | -- | -- | lbs/ft |
| Performance | Pipe | BTC | LTC | STC | |
| Minimum Collapse Pressure | 1,580 | 1,580 | -- | 1,580 | psi |
| Minimum Internal Yield Pressure | 3,130 | 3,130 | -- | 3,130 | psi |
| Minimum Pipe Body Yield Strength | 629.00 | -- | -- | -- | 1000 lbs |
| Joint Strength | -- | 700 | -- | 420 | 1000 lbs |
| Reference Length | -- | 11,522 | -- | 6,915 | ft |
| Make-Up Data | Pipe | BTC | LTC | STC | |
| Make-Up Loss | -- | 4.81 | -- | 3.50 | in. |
| Minimum Make-Up Torque | -- | -- | -- | 3,150 | ft-lbs |
| Maximum Make-Up Torque | -- | -- | -- | 5,250 | ft-lbs |



API 5CT, 10th Ed. Connection Data Sheet

| O.D. (in) | WEIGHT (lb/ft) | WALL (in) | GRADE | *API DRIFT (in) | RBW % |
|-----------|------------------------------------|-----------|-------|-----------------|-------|
| 8.625 | Nominal: 32.00 Plain End: 31.13 | 0.352 | J55 | 7.796 | 87.5 |

| Material Properties (PE) | | Pipe Body Data (PE) | |
|---------------------------|--------|----------------------------------------------|-----------------------|
| Pipe | | Geometry | |
| Minimum Yield Strength: | 55 ksi | Nominal ID: | 7.92 inch |
| Maximum Yield Strength: | 80 ksi | Nominal Area: | 9.149 in ² |
| Minimum Tensile Strength: | 75 ksi | *Special/Alt. Drift: | 7.875 inch |
| Coupling | | Performance | |
| Minimum Yield Strength: | 55 ksi | Pipe Body Yield Strength: | 503 kips |
| Maximum Yield Strength: | 80 ksi | Collapse Resistance: | 2,530 psi |
| Minimum Tensile Strength: | 75 ksi | Internal Yield Pressure: (API Historical) | 3,930 psi |

| API Connection Data | | API Connection Torque | |
|---------------------------------------|--|----------------------------------------------------|--|
| Coupling OD: 9.625" | | STC Torque (ft-lbs) | |
| STC Performance | | Min: 2,793 Opti: 3,724 Max: 4,655 | |
| STC Internal Pressure: | | LTC Torque (ft-lbs) | |
| STC Joint Strength: | | Min: 3,130 Opti: 4,174 Max: 5,217 | |
| LTC Performance | | BTC Torque (ft-lbs) | |
| LTC Internal Pressure: | | follow API guidelines regarding positional make up | |
| LTC Joint Strength: | | | |
| SC-BTC Performance - Cplg OD = 9.125" | | | |
| BTC Internal Pressure: | | | |
| BTC Joint Strength: | | | |

*Alt. Drift will be used unless API Drift is specified on order.

**If above API connections do not suit your needs, VAM® premium connections are available up to 100% of pipe body ratings.

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Rev 3, 7/30/2021

10/21/2022 15:24



Annular Clearance Variance