<u>District I</u> 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 353509

| APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZON | 4E |
|---|----|
| 0.000 | |

| Operator Name and Address | | 2. OGRID Number |
|---------------------------|---------------------|-----------------|
| EOG RESOURCES INC | | 7377 |
| P.O. Box 2267 | | 3. API Number |
| Midland, TX 79702 | | 30-025-52182 |
| 4. Property Code | 5. Property Name | 6. Well No. |
| 320644 | BANDIT 29 STATE COM | 401H |

7. Surface Location

| UL - Lot | Section | Township | Range | Lot Idn | Feet From | N/S Line | Feet From | E/W Line | County |
|----------|---------|----------|-------|---------|-----------|----------|-----------|----------|--------|
| Α | 29 | 24S | 33E | Α | 541 | N | 474 | E | Lea |

8. Proposed Bottom Hole Location

| UL - Lot | Section | Township | Range | Lot Idn | Feet From | N/S Line | Feet From | E/W Line | County |
|----------|---------|----------|-------|---------|-----------|----------|-----------|----------|--------|
| G | 32 | 24S | 33E | G | 2539 | N | 1420 | E | Lea |

9. Pool Information

| Т | TRISTE DRAW;BONE SPRING, EAST | 96682 |
|---|-------------------------------|-------|

Additional Well Information

| 11. Work Type | 12. Well Type | 13. Cable/Rotary | 14. Lease Type | 15. Ground Level Elevation |
|-----------------------|--------------------|--|----------------|-----------------------------------|
| New Well | OIL | | State | 3527 |
| 16. Multiple | 17. Proposed Depth | 18. Formation | 19. Contractor | 20. Spud Date |
| N | 18182 | Bone Spring | | 11/20/2023 |
| 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 | 1310 | 480 | 0 |
| Int1 | 11 | 9.625 | 40 | 5034 | 1110 | 0 |
| Prod | 6.75 | 5.5 | 17 | 18182 | 1030 | 4430 |

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

| Туре | Working Pressure Test Pressure | | Manufacturer |
|------------|--------------------------------|------|--------------|
| Double Ram | 5000 | 3000 | |

| knowledge and b | pelief. have complied with 19.15.14.9 (A) | true and complete to the best of my NMAC ⊠ and/or 19.15.14.9 (B) NMAC | | OIL CONSERVATION | ON DIVISION |
|-----------------|--|---|--------------------|------------------|----------------------------|
| Printed Name: | Electronically filed by Kay Maddo | (| Approved By: | Paul F Kautz | |
| Title: | Senior Regulatory Specialist | | Title: | Geologist | |
| Email Address: | ddress: kay_maddox@eogresources.com | | | 11/7/2023 | Expiration Date: 11/7/2025 |
| Date: | 11/6/2023 | Phone: 432-638-8475 | Conditions of Appr | oval Attached | |

DISTRICT I 6161 Fax: (575) 393-0720 DISTRICT II DISTRICT III DISTRICT IV DISTRICT IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, New Mexico 87505

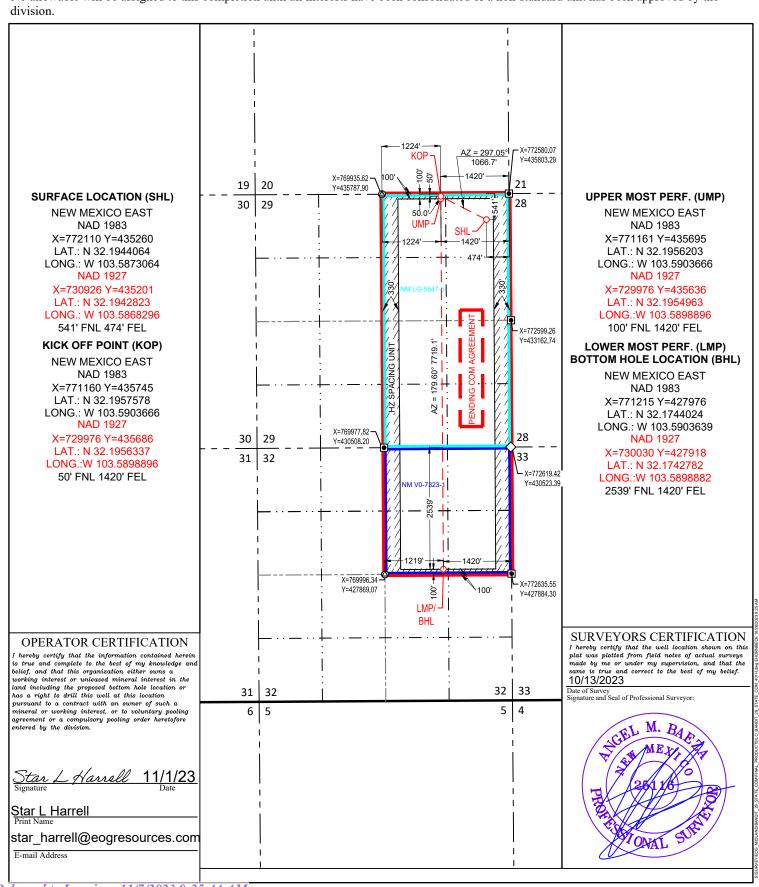
Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

| A | | İ | Pool Code | | | Pool Name | | | | |
|-----------------|----------|----------|---------------------------------------|---------|------------------|--------------------------------|---------------|----------------|--------|--|
| 3 | 0-025- | | | 96682 | | Triste Draw; Bone Spring, East | | | | |
| Property Co | | | • | | Property Name | | | Well Number | | |
| 32064 | 4 | | | BA | ANDIT 29 STAT | TE COM | | 40 | 1H | |
| OGRID N | 0. | | | | Operator Name | | | Elevati | on | |
| 7377 | | | | EC | G RESOURCI | ES, INC. | | 35 | 27' | |
| | | • | | | Surface Locat | ion | | • | | |
| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County | |
| Α | 29 | 24-S | 33-E | - | 541' | NORTH | 474' | EAST | LEA | |
| | | | Bott | om Hole | Location If Diff | erent From Surfac | ee | • | | |
| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County | |
| G | 32 | 24-S | 4-S 33-E - 2539' NORTH 1420' EAST LEA | | | | | LEA | | |
| Dedicated Acres | Joint or | Infill | Consolidated Code Order No. | | | | | | | |
| 480.00 | | | PENDING COM AGREEMENT | | | | | | | |

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the



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1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

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 APD Conditions

Permit 353509

PERMIT CONDITIONS OF APPROVAL

| Opera | tor Name and Address: | API Number: |
|-------|--------------------------|---------------------------|
| | EOG RESOURCES INC [7377] | 30-025-52182 |
| | P.O. Box 2267 | Well: |
| | Midland, TX 79702 | BANDIT 29 STATE COM #401H |
| | | |

| OCD | Condition |
|----------|--|
| Reviewer | |
| 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 | If cement does not circulate on any string, a CBL is required for that string of casing. |
| pkautz | The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud |



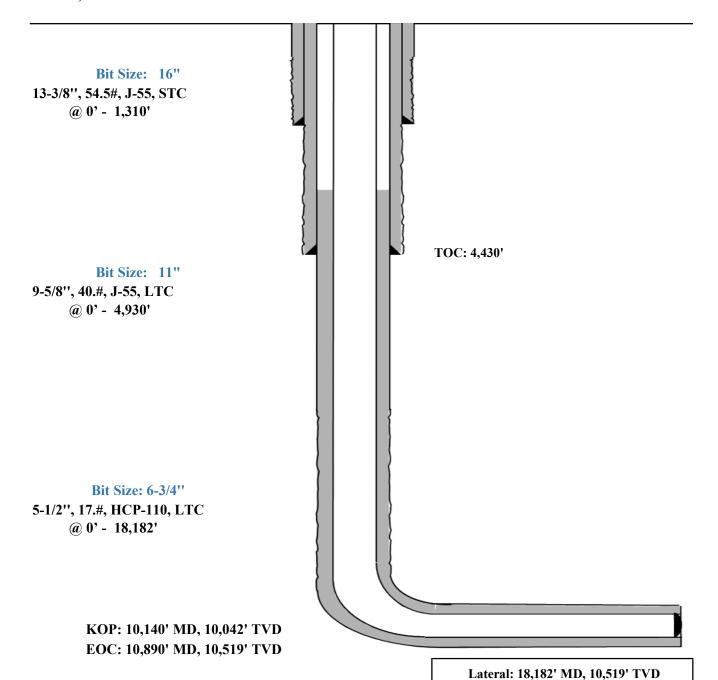
Bandit 29 State Com #401H Lea County, New Mexico Proposed Wellbore

541' FNL 474' FEL Section 29

T-24-S, R-33-E

Proposed Wellbore KB: 3552'
Design A GL: 3527'

API: 30-025-****



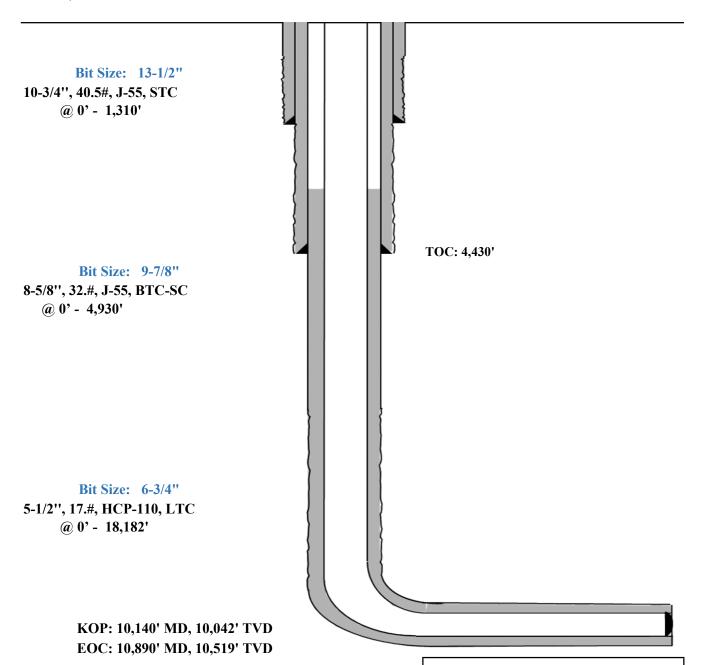
BH Location: 2539' FNL & 1420' FEL Sec. 32 T-24-S R-33-E Bandit 29 State Com #401H Lea County, New Mexico Proposed Wellbore

541' FNL474' FELSection 29

T-24-S, R-33-E

Proposed Wellbore KB: 3552'
Design B GL: 3527'

API: 30-025-****



Lateral: 18,182' MD, 10,519' TVD BH Location: 2539' FNL & 1420' FEL Sec. 32

T-24-S R-33-E



Bandit 29 State Com #401H

Permit Information:

Well Name: Bandit 29 State Com #401H

Location:

SHL: 541' FNL & 474' FEL, Section 29, T-24-S, R-33-E, Lea Co., N.M. BHL: 2539' FNL & 1420' FEL, Section 32, T-24-S, R-33-E, Lea Co., N.M.

Design A

Casing Program:

| Hole | Interv | al MD | Interva | d TVD | Csg | | | |
|--------|-----------|---------|-----------|---------|---------|--------|---------|------|
| Size | From (ft) | To (ft) | From (ft) | To (ft) | OD | Weight | Grade | Conn |
| 16" | 0 | 1,310 | 0 | 1,310 | 13-3/8" | 54.5# | J-55 | STC |
| 11" | 0 | 5,034 | 0 | 4,930 | 9-5/8" | 40# | J-55 | LTC |
| 6-3/4" | 0 | 18,182 | 0 | 10,519 | 5-1/2" | 17# | HCP-110 | LTC |

Cement Program:

| Depth | No. Sacks | Wt. | Yld Ft3/sk | Slurry Description |
|---------|--------------|------|---------------|---|
| 1,310' | 340 | 13.5 | 1.73 | Class C + 4.0% Bentonite + 0.6% CD-32 + 0.5% CaCl2 + 0.25 lb/sk Cello-Flake (TOC @ Surface) |
| 1,310 | 140 | 14.8 | 1.34 | Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate |
| 5.0201 | 510 | 12.7 | 1.11 | Lead: Class C + 10% NaCl + 6% Bentonite Gel + 3% MagOx (TOC @ Surface) |
| 5,030' | 600 | 14.8 | 1.5 | Tail: Class C + 3% CaCl2 + 3% Microbond (TOC @ 3,944') |
| | 460 | 10.5 | 3.21 | Lead: Class C + 3% CaCl2 + 3% Microbond (TOC @ 4,430') |
| 18,182' | 570 | 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 | Veight (pp | Viscosity | Water Loss |
|-----------------------------|-------------|------------|-----------|------------|
| 0 – 1,310' | Fresh - Gel | 8.6-8.8 | 28-34 | N/c |
| 1,310' – 4,930' | Brine | 8.6-8.8 | 28-34 | N/c |
| 4,930' – 18,182' Lateral | Oil Base | 8.8-9.5 | 58-68 | N/c - 6 |



Bandit 29 State Com #401H

Design B

CASING PROGRAM

| Hole | Interval MD | | Interval TVD | | Csg | | | |
|---------|-------------|---------|--------------|---------|---------|--------|---------|--------|
| Size | From (ft) | To (ft) | From (ft) | To (ft) | OD | Weight | Grade | Conn |
| 13-1/2" | 0 | 1,310 | 0 | 1,310 | 10-3/4" | 40.5# | J-55 | STC |
| 9-7/8" | 0 | 5,034 | 0 | 4,930 | 8-5/8" | 32# | J-55 | BTC-SC |
| 6-3/4" | 0 | 18,182 | 0 | 10,519 | 5-1/2" | 17# | HCP-110 | LTC |

Cementing Program:

| | lig i rogran | Wt. | Yld | |
|---------|--------------|------|--------|---|
| Depth | No. Sacks | ppg | Ft3/sk | Slurry Description |
| 1 210 | 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) |
| 1,310' | 70 | 14.8 | 1.34 | Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate |
| 5,030' | 240 | 12.7 | 1.11 | Tail: Class C + 10% NaCl + 6% Bentonite Gel + 3% MagOx (TOC @ Surface) |
| 3,030 | 1000 | 14.8 | 1.5 | Lead: Class C + 3% CaCl2 + 3% Microbond (TOC @ 3,944') |
| | 260 | 10.5 | 3.21 | Lead: Class C + 3% CaCl2 + 3% Microbond (TOC @ 4,430') |
| 18,182' | 570 | 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 | Veight (pp | Viscosity | Water Loss |
|-----------------------------|-------------|------------|-----------|------------|
| 0 – 1,310' | Fresh - Gel | 8.6-8.8 | 28-34 | N/c |
| 1,310' – 4,930' | Brine | 8.6-8.8 | 28-34 | N/c |
| 4,930' – 18,182' Lateral | Oil Base | 8.8-9.5 | 58-68 | N/c - 6 |



Bandit 29 State Com 401H

TUBING REQUIREMENTS

EOG respectively requests an exception to the following NMOCD rule:

• 19.15.16.10 Casing AND TUBING RQUIREMENTS: 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.



Bandit 29 State Com #401H

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/Escape 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.



Bandit 29 State Com #401H

■ 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.



Bandit 29 State Com #401H Emergency Assistance Telephone List

| PUBLIC SAFETY: | 1 | 911 o |
|--------------------------------------|--------|--|
| 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 Dominque | 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: | | |
| <u>*</u> | | (122) (2.5.2.5.2.5.2.5.2.5.2.5.2.5.2.5.2.5.2.5 |
| Brian Chandler (HSE Manager) | Office | (432) 686-3695 |



Midland

Lea County, NM (NAD 83 NME) Bandit 29 State Com #401H

OH

Plan: Plan #0.1

Standard Planning Report

01 November, 2023



Database: PEDM Company: Midland

Project: Lea County, NM (NAD 83 NME)

Site: Bandit 29 State Com

 Well:
 #401H

 Wellbore:
 OH

 Design:
 Plan #0.1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well #401H

kn=25' @ 3552.0usft kn=25' @ 3552.0usft

Grid

Minimum Curvature

Project Lea County, NM (NAD 83 NME)

Map System:US State Plane 1983Geo Datum:North American Datum 1983Map Zone:New Mexico Eastern Zone

System Datum:

Mean Sea Level

Site Bandit 29 State Com

 Site Position:
 Northing:
 435,375.00 usft
 Latitude:
 32° 11' 41.017 N

 From:
 Map
 Easting:
 771,884.00 usft
 Longitude:
 103° 35' 16.930 W

Position Uncertainty: 0.0 usft Slot Radius: 13-3/16 "

Well #401H

0.0 usft **Well Position** +N/-S Northing: 435,260.00 usft Latitude: 32° 11' 39.863 N +E/-W 0.0 usft Easting: 772,110.00 usft Longitude: 103° 35' 14.309 W **Position Uncertainty** 0.0 usft Wellhead Elevation: usft **Ground Level:** 3,527.0 usft

Grid Convergence: 0.40 $^{\circ}$

Wellbore OH

 Magnetics
 Model Name
 Sample Date
 Declination (°)
 Dip Angle (°)
 Field Strength (nT)

 IGRF2020
 11/1/2023
 6.27
 59.79
 47,225.91202944

Design Plan #0.1

Audit Notes:

Version:Phase:PLANTie On Depth:0.0

 Vertical Section:
 Depth From (TVD) (usft)
 +N/-S +E/-W (usft)
 Direction (usft)

 0.0
 0.0
 0.0
 187.00

Plan Survey Tool Program Date 11/1/2023

Depth From Depth To

(usft) (usft) Survey (Wellbore) Tool Name Remarks

1 0.0 18,181.7 Plan #0.1 (OH) EOG MWD+IFR1

MWD + IFR1



Database: PEDM Company: Midland

Project: Lea County, NM (NAD 83 NME)

Site: Bandit 29 State Com

 Well:
 #401H

 Wellbore:
 OH

 Design:
 Plan #0.1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well #401H

kn=25' @ 3552.0usft kn=25' @ 3552.0usft

Grid

| 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 | |
| 1,505.0 | 0.00 | 0.00 | 1,505.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 2,050.2 | 10.90 | 297.05 | 2,046.9 | 23.5 | -46.1 | 2.00 | 2.00 | 0.00 | 297.05 | |
| 7,142.3 | 10.90 | 297.05 | 7,047.1 | 461.5 | -903.9 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 7,687.5 | 0.00 | 0.00 | 7,589.0 | 485.0 | -950.0 | 2.00 | -2.00 | 0.00 | 180.00 | |
| 10,140.0 | 0.00 | 0.00 | 10,041.5 | 485.0 | -950.0 | 0.00 | 0.00 | 0.00 | 0.00 | KOP(Bandit 29 State |
| 10,360.5 | 26.46 | 178.85 | 10,254.2 | 435.0 | -949.0 | 12.00 | 12.00 | 81.13 | 178.85 | FTP(Bandit 29 State (|
| 10,889.9 | 90.00 | 179.61 | 10,518.9 | 7.6 | -944.4 | 12.00 | 12.00 | 0.14 | 0.85 | |
| 18,181.7 | 90.00 | 179.61 | 10,519.0 | -7,284.0 | -895.0 | 0.00 | 0.00 | 0.00 | 0.00 | PBHL(Bandit 29 State |



Database: PEDM Company: Midland

Project: Lea County, NM (NAD 83 NME)

Site: Bandit 29 State Com

 Well:
 #401H

 Wellbore:
 OH

 Design:
 Plan #0.1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well #401H

kn=25' @ 3552.0usft kn=25' @ 3552.0usft

Grid

| Design. | | | | | | | | | |
|-----------------------------|--------------------|----------------|-----------------------------|-----------------|------------------|-------------------------------|-------------------------------|------------------------------|-----------------------------|
| 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 | 0.00 | 0.00 | 0.00 |
| | | | | | 0.0 | | | | |
| 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 |
| 1,200.0 | 0.00 | 0.00 | 1,300.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| | 0.00 | 0.00 | | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,400.0 | | | 1,400.0 | | | | | | |
| 1,505.0 | 0.00 | 0.00 | 1,505.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,600.0 | 1.90 | 297.05 | 1,600.0 | 0.7 | -1.4 | -0.5 | 2.00 | 2.00 | 0.00 |
| 1,700.0 | 3.90 | 297.05 | 1,699.8 | 3.0 | -5.9 | -2.3 | 2.00 | 2.00 | 0.00 |
| 1,800.0 | 5.90 | 297.05 | 1,799.5 | 6.9 | -13.5 | -5.2 | 2.00 | 2.00 | 0.00 |
| 1,900.0 | 7.90 | 297.05 | 1,898.7 | 12.4 | -24.2 | -9.3 | 2.00 | 2.00 | 0.00 |
| 2,000.0 | 9.90 | 297.05 | 1,997.5 | 19.4 | -38.0 | -14.6 | 2.00 | 2.00 | 0.00 |
| | | | | | | | | | |
| 2,050.2 | 10.90 | 297.05 | 2,046.9 | 23.5 | -46.1 | -17.7 | 2.00 | 2.00 | 0.00 |
| 2,100.0 | 10.90 | 297.05 | 2,095.8 | 27.8 | -54.5 | -21.0 | 0.00 | 0.00 | 0.00 |
| 2,200.0 | 10.90 | 297.05 | 2,194.0 | 36.4 | -71.3 | -27.4 | 0.00 | 0.00 | 0.00 |
| 2,300.0 | 10.90 | 297.05 | 2,292.2 | 45.0 | -88.2 | -33.9 | 0.00 | 0.00 | 0.00 |
| 2,400.0 | 10.90 | 297.05 | 2,390.4 | 53.6 | -105.0 | -40.4 | 0.00 | 0.00 | 0.00 |
| 2,500.0 | 10.90 | 297.05 | 2,488.6 | 62.2 | -121.8 | -46.9 | 0.00 | 0.00 | 0.00 |
| 2,600.0 | 10.90 | 297.05 | 2,586.8 | 70.8 | -138.7 | -53.4 | 0.00 | 0.00 | 0.00 |
| 2,700.0 | 10.90 | 297.05 | 2,685.0 | 79.4 | -155.5 | -59.8 | 0.00 | 0.00 | 0.00 |
| 2,800.0 | 10.90 | 297.05 | 2,783.2 | 88.0 | -172.4 | -66.3 | 0.00 | 0.00 | 0.00 |
| | | | | | | | | | |
| 2,900.0 | 10.90 | 297.05 | 2,881.4 | 96.6 | -189.2 | -72.8 | 0.00 | 0.00 | 0.00 |
| 3,000.0 | 10.90 | 297.05 | 2,979.6 | 105.2 | -206.1 | -79.3 | 0.00 | 0.00 | 0.00 |
| 3,100.0 | 10.90 | 297.05 | 3,077.8 | 113.8 | -222.9 | -85.8 | 0.00 | 0.00 | 0.00 |
| 3,200.0 | 10.90 | 297.05 | 3,176.0 | 122.4 | -239.8 | -92.3 | 0.00 | 0.00 | 0.00 |
| 3,300.0 | 10.90 | 297.05 | 3,274.2 | 131.0 | -256.6 | -98.7 | 0.00 | 0.00 | 0.00 |
| | | | | | | | | | |
| 3,400.0 | 10.90 | 297.05 | 3,372.3 | 139.6 | -273.5 | -105.2 | 0.00 | 0.00 | 0.00 |
| 3,500.0 | 10.90 | 297.05 | 3,470.5 | 148.2 | -290.3 | -111.7 | 0.00 | 0.00 | 0.00 |
| 3,600.0 | 10.90 | 297.05 | 3,568.7 | 156.8 | -307.2 | -118.2 | 0.00 | 0.00 | 0.00 |
| 3,700.0 | 10.90 | 297.05 | 3,666.9 | 165.4 | -324.0 | -124.7 | 0.00 | 0.00 | 0.00 |
| 3,800.0 | 10.90 | 297.05 | 3,765.1 | 174.0 | -340.9 | -131.1 | 0.00 | 0.00 | 0.00 |
| 3,900.0 | 10.90 | 297.05 | 3,863.3 | 182.6 | -357.7 | -137.6 | 0.00 | 0.00 | 0.00 |
| 4,000.0 | 10.90 | 297.05 | 3,961.5 | 191.2 | -374.5 | -144.1 | 0.00 | 0.00 | 0.00 |
| 4,100.0 | 10.90 | 297.05 | 4,059.7 | 199.8 | -391.4 | -150.6 | 0.00 | 0.00 | 0.00 |
| 4,100.0 | 10.90 | 297.05 | 4,059.7 | 208.4 | -408.2 | -150.6 | 0.00 | 0.00 | 0.00 |
| 4,300.0 | 10.90 | 297.05 | 4,157.9 | 217.0 | -406.2 -425.1 | -163.6 | 0.00 | 0.00 | 0.00 |
| | | | | | | | | | |
| 4,400.0 | 10.90 | 297.05 | 4,354.3 | 225.6 | -441.9 | -170.0 | 0.00 | 0.00 | 0.00 |
| 4,500.0 | 10.90 | 297.05 | 4,452.5 | 234.2 | -458.8 | -176.5 | 0.00 | 0.00 | 0.00 |
| 4,600.0 | 10.90 | 297.05 | 4,550.7 | 242.8 | -475.6 | -183.0 | 0.00 | 0.00 | 0.00 |
| 4,700.0 | 10.90 | 297.05 | 4,648.9 | 251.4 | -492.5 | -189.5 | 0.00 | 0.00 | 0.00 |
| 4,800.0 | 10.90 | 297.05 | 4,747.1 | 260.0 | -509.3 | -196.0 | 0.00 | 0.00 | 0.00 |
| | | | | | | | | | |
| 4,900.0 | 10.90 | 297.05 | 4,845.3 | 268.6 | -526.2 | -202.5 | 0.00 | 0.00 | 0.00 |
| 5,000.0 | 10.90 | 297.05 | 4,943.5 | 277.2 | -543.0 | -208.9 | 0.00 | 0.00 | 0.00 |
| 5,100.0 | 10.90 | 297.05 | 5,041.7 | 285.8 | -559.9 | -215.4 | 0.00 | 0.00 | 0.00 |
| 5,200.0 | 10.90 | 297.05 | 5,139.9 | 294.4 | -576.7 | -221.9 | 0.00 | 0.00 | 0.00 |

eog resources

Planning Report

Database: PEDM

Company: Midland
Project: Lea County, NM (NAD 83 NME)

Site: Bandit 29 State Com

 Well:
 #401H

 Wellbore:
 OH

 Design:
 Plan #0.1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well #401H

kn=25' @ 3552.0usft kn=25' @ 3552.0usft

Grid

| 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) |
| 5,300.0 | 10.90 | 297.05 | 5,238.0 | 303.0 | -593.6 | -228.4 | 0.00 | 0.00 | 0.00 |
| 5,400.0 | 10.90 | 297.05 | 5,336.2 | 311.6 | -610.4 | -234.9 | 0.00 | 0.00 | 0.00 |
| 5,500.0 | 10.90 | 297.05 | 5,434.4 | 320.2 | -627.3 | -241.3 | 0.00 | 0.00 | 0.00 |
| 5,600.0 | 10.90 | 297.05 | 5,532.6 | 328.8 | -644.1 | -247.8 | 0.00 | 0.00 | 0.00 |
| 5,700.0 | 10.90 | 297.05 | 5,630.8 | 337.4 | -660.9 | -254.3 | 0.00 | 0.00 | 0.00 |
| 5,800.0 | 10.90 | 297.05 | 5,729.0 | 346.0 | -677.8 | -260.8 | 0.00 | 0.00 | 0.00 |
| 5,900.0 | 10.90 | 297.05 | 5,827.2 | 354.6 | -694.6 | -267.3 | 0.00 | 0.00 | 0.00 |
| 6,000.0 | 10.90 | 297.05 | 5,925.4 | 363.2 | -711.5 | -273.8 | 0.00 | 0.00 | 0.00 |
| 6,100.0 | 10.90 | 297.05 | 6,023.6 | 371.8 | -728.3 | -280.2 | 0.00 | 0.00 | 0.00 |
| 6,200.0 | 10.90 | 297.05 | 6,121.8 | 380.4 | -745.2 | -286.7 | 0.00 | 0.00 | 0.00 |
| 6,300.0 | 10.90 | 297.05 | 6,220.0 | 389.0 | -762.0 | -293.2 | 0.00 | 0.00 | 0.00 |
| 6,400.0 | 10.90 | 297.05 | 6,318.2 | 397.6 | -778.9 | -299.7 | 0.00 | 0.00 | 0.00 |
| 6,500.0 | 10.90 | 297.05 | 6,416.4 | 406.2 | -795.7 | -306.2 | 0.00 | 0.00 | 0.00 |
| 6,600.0 | 10.90 | 297.05 | 6,514.6 | 414.8 | -812.6 | -312.6 | 0.00 | 0.00 | 0.00 |
| 6,700.0 | 10.90 | 297.05 | 6,612.8 | 423.4 | -829.4 | -319.1 | 0.00 | 0.00 | 0.00 |
| 6,800.0 | 10.90 | 297.05 | 6,711.0 | 432.0 | -846.3 | -325.6 | 0.00 | 0.00 | 0.00 |
| 6,900.0 | 10.90 | 297.05 | 6,809.2 | 440.6 | -863.1 | -332.1 | 0.00 | 0.00 | 0.00 |
| 7,000.0 | 10.90 | 297.05 | 6,907.4 | 449.2 | -880.0 | -338.6 | 0.00 | 0.00 | 0.00 |
| 7,100.0 | 10.90 | 297.05 | 7,005.6 | 457.8 | -896.8 | -345.1 | 0.00 | 0.00 | 0.00 |
| 7,142.3 7,200.0 | 10.90 9.75 | 297.05 297.05 | 7,047.1 7,103.9 | 461.5 466.2 | -903.9 -913.1 | -347.8 -351.3 | 0.00 2.00 | 0.00 -2.00 | 0.00 0.00 |
| | | | | | | | | | |
| 7,300.0 | 7.75 | 297.05 | 7,202.7 | 473.1 | -926.7 | -356.6 | 2.00 | -2.00 | 0.00 |
| 7,400.0 | 5.75 | 297.05 | 7,302.0 | 478.4 | -937.2 | -360.6 | 2.00 | -2.00 | 0.00 |
| 7,500.0 7,600.0 | 3.75 1.75 | 297.05 297.05 | 7,401.6 7,501.5 | 482.2 484.4 | -944.5 -948.8 | -363.4 | 2.00 2.00 | -2.00 -2.00 | 0.00 0.00 |
| 7,687.5 | 0.00 | 0.00 | 7,589.0 | 485.0 | -940.0 -950.0 | -365.1 -365.5 | 2.00 | -2.00 -2.00 | 0.00 |
| | | | | | | | | | |
| 7,700.0 | 0.00 | 0.00 | 7,601.5 | 485.0 | -950.0 | -365.5 | 0.00 | 0.00 | 0.00 |
| 7,800.0 7,900.0 | 0.00 0.00 | 0.00 0.00 | 7,701.5 7,801.5 | 485.0 485.0 | -950.0 -950.0 | -365.5 -365.5 | 0.00 0.00 | 0.00 0.00 | 0.00 0.00 |
| 8,000.0 | 0.00 | 0.00 | 7,901.5 | 485.0 | -950.0 | -365.5 | 0.00 | 0.00 | 0.00 |
| 8,100.0 | 0.00 | 0.00 | 8,001.5 | 485.0 | -950.0 | -365.5 | 0.00 | 0.00 | 0.00 |
| | | | | | | | | | |
| 8,200.0 8,300.0 | 0.00 0.00 | 0.00 0.00 | 8,101.5 8,201.5 | 485.0 485.0 | -950.0 -950.0 | -365.5 -365.5 | 0.00 0.00 | 0.00 0.00 | 0.00 0.00 |
| 8,400.0 | 0.00 | 0.00 | 8,301.5 | 485.0 | -950.0 | -365.5 | 0.00 | 0.00 | 0.00 |
| 8,500.0 | 0.00 | 0.00 | 8,401.5 | 485.0 | -950.0 | -365.5 | 0.00 | 0.00 | 0.00 |
| 8,600.0 | 0.00 | 0.00 | 8,501.5 | 485.0 | -950.0 | -365.5 | 0.00 | 0.00 | 0.00 |
| 8,700.0 | 0.00 | 0.00 | 8,601.5 | 485.0 | -950.0 | -365.5 | 0.00 | 0.00 | 0.00 |
| 8,800.0 | 0.00 | 0.00 | 8,701.5 | 485.0 | -950.0 | -365.5 | 0.00 | 0.00 | 0.00 |
| 8,900.0 | 0.00 | 0.00 | 8,801.5 | 485.0 | -950.0 | -365.5 | 0.00 | 0.00 | 0.00 |
| 9,000.0 | 0.00 | 0.00 | 8,901.5 | 485.0 | -950.0 | -365.5 | 0.00 | 0.00 | 0.00 |
| 9,100.0 | 0.00 | 0.00 | 9,001.5 | 485.0 | -950.0 | -365.5 | 0.00 | 0.00 | 0.00 |
| 9,200.0 | 0.00 | 0.00 | 9,101.5 | 485.0 | -950.0 | -365.5 | 0.00 | 0.00 | 0.00 |
| 9,300.0 | 0.00 | 0.00 | 9,201.5 | 485.0 | -950.0 | -365.5 | 0.00 | 0.00 | 0.00 |
| 9,400.0 | 0.00 | 0.00 | 9,301.5 | 485.0 | -950.0 | -365.5 | 0.00 | 0.00 | 0.00 |
| 9,500.0 | 0.00 | 0.00 | 9,401.5 | 485.0 | -950.0 | -365.5 | 0.00 | 0.00 | 0.00 |
| 9,600.0 | 0.00 | 0.00 | 9,501.5 | 485.0 | -950.0 | -365.5 | 0.00 | 0.00 | 0.00 |
| 9,700.0 | 0.00 | 0.00 | 9,601.5 | 485.0 | -950.0 | -365.5 | 0.00 | 0.00 | 0.00 |
| 9,800.0 | 0.00 | 0.00 | 9,701.5 | 485.0 | -950.0 | -365.5 | 0.00 | 0.00 | 0.00 |
| 9,900.0 | 0.00 | 0.00 | 9,801.5 | 485.0 | -950.0 | -365.5 | 0.00 | 0.00 | 0.00 |
| 10,000.0 | 0.00 | 0.00 | 9,901.5 | 485.0 | -950.0 | -365.5 | 0.00 | 0.00 | 0.00 |
| 10,100.0 | 0.00 | 0.00 | 10,001.5 | 485.0 | -950.0 | -365.5 | 0.00 | 0.00 | 0.00 |
| 10,140.0 | 0.00 | 0.00 | 10,041.5 | 485.0 | -950.0 | -365.5 | 0.00 | 0.00 | 0.00 |
| 10,150.0 | 1.20 | 178.85 | 10,051.5 | 484.9 | -950.0 | -365.4 | 12.00 | 12.00 | 0.00 |
| 10,175.0 | 4.20 | 178.85 | 10,076.5 | 483.7 | -950.0 | -364.3 | 12.00 | 12.00 | 0.00 |

eog resources

Planning Report

Database: PEDM Company: Midland

Project: Lea County, NM (NAD 83 NME)

Site: Bandit 29 State Com

 Well:
 #401H

 Wellbore:
 OH

 Design:
 Plan #0.1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well #401H

kn=25' @ 3552.0usft kn=25' @ 3552.0usft

Grid

| 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) |
| 10 200 0 | 7.20 | | 10 101 2 | 404.0 | 040.0 | 264.0 | 12.00 | 12.00 | 0.00 |
| 10,200.0 10,225.0 | 10.20 | 178.85 178.85 | 10,101.3 10,126.1 | 481.2 477.5 | -949.9 -949.8 | -361.8 -358.1 | 12.00 12.00 | 12.00 12.00 | 0.00 0.00 |
| | | | | | | | | | |
| 10,250.0 | 13.20 | 178.85 | 10,150.5 | 472.4 | -949.7 | -353.0 | 12.00 | 12.00 | 0.00 |
| 10,275.0 | 16.21 | 178.85 | 10,174.7 | 466.0 | -949.6 | -346.7 | 12.00 | 12.00 | 0.00 |
| 10,300.0 | 19.21 | 178.85 | 10,198.5 | 458.4 | -949.5 | -339.2 | 12.00 | 12.00 | 0.00 |
| 10,325.0 | 22.21 | 178.85 | 10,221.9 | 449.6 | -949.3 | -330.5 | 12.00 | 12.00 | 0.00 |
| 10,350.0 | 25.21 | 178.85 | 10,244.8 | 439.6 | -949.1 | -320.5 | 12.00 | 12.00 | 0.00 |
| 10,360.5 | 26.46 | 178.85 | 10,254.2 | 435.0 | -949.0 | -316.0 | 12.00 | 12.00 | 0.00 |
| 10,375.0 | 28.21 | 178.91 | 10,267.1 | 428.3 | -948.9 | -309.4 | 12.00 | 12.00 | 0.38 |
| 10,400.0 | 31.21 | 178.99 | 10,288.8 | 415.9 | -948.6 | -297.1 | 12.00 | 12.00 | 0.32 |
| 10,425.0 | 34.21 | 179.06 | 10,309.9 | 402.4 | -948.4 | -283.8 | 12.00 | 12.00 | 0.27 |
| 10,450.0 | 37.21 | 179.12 | 10,330.2 | 387.8 | -948.2 | -269.3 | 12.00 | 12.00 | 0.23 |
| 10,475.0 | 40.21 | 179.17 | 10,349.7 | 372.2 | -947.9 | -253.8 | 12.00 | 12.00 | 0.20 |
| 10,500.0 | 43.21 | 179.21 | 10,368.3 | 355.6 | -947.7 | -237.4 | 12.00 | 12.00 | 0.18 |
| 10,525.0 | 46.21 | 179.25 | 10,386.1 | 338.0 | -947.5 | -219.9 | 12.00 | 12.00 | 0.16 |
| 10,550.0 | 49.21 | 179.29 | 10,402.9 | 319.5 | -947.2 | -201.6 | 12.00 | 12.00 | 0.14 |
| 10,575.0 | 52.21 | 179.32 | 10,418.8 | 300.2 | -947.0 | -182.4 | 12.00 | 12.00 | 0.13 |
| 10,600.0 | 55.21 | 179.35 | 10,433.5 | 280.0 | -946.8 | -162.5 | 12.00 | 12.00 | 0.12 |
| 10,625.0 | 58.21 | 179.38 | 10,447.3 | 259.1 | -946.5 | -102.3 | 12.00 | 12.00 | 0.12 |
| 10,650.0 | 61.21 | 179.40 | 10,459.9 | 237.5 | -946.3 | -120.4 | 12.00 | 12.00 | 0.11 |
| 10,675.0 | 64.21 | 179.43 | 10,471.3 | 215.3 | -946.1 | -98.3 | 12.00 | 12.00 | 0.10 |
| 10,700.0 | 67.21 | 179.45 | 10,481.6 | 192.5 | -945.9 | -75.8 | 12.00 | 12.00 | 0.10 |
| | | | | | | | | | |
| 10,725.0 | 70.21 | 179.48 | 10,490.7 | 169.3 | -945.6 | -52.7 | 12.00 | 12.00 | 0.09 |
| 10,750.0 | 73.21 | 179.50 | 10,498.6 | 145.5 | -945.4 | -29.1 | 12.00 | 12.00 | 0.09 |
| 10,775.0 | 76.21 | 179.52 | 10,505.1 | 121.4 | -945.2 | -5.2 | 12.00 | 12.00 | 0.08 |
| 10,800.0 10,825.0 | 79.21 82.21 | 179.54 179.56 | 10,510.5 10,514.5 | 97.0 72.3 | -945.0 -944.8 | 19.0 43.4 | 12.00 12.00 | 12.00 12.00 | 0.08 0.08 |
| | | | | | | | | | |
| 10,850.0 | 85.21 | 179.58 | 10,517.2 | 47.5 | -944.6 | 68.1 | 12.00 | 12.00 | 0.08 |
| 10,875.0 | 88.21 | 179.60 | 10,518.7 | 22.5 | -944.5 | 92.8 | 12.00 | 12.00 | 0.08 |
| 10,889.9 | 90.00 | 179.61 | 10,518.9 | 7.6 | -944.4 | 107.6 | 12.00 | 12.00 | 0.08 |
| 10,900.0 | 90.00 | 179.61 | 10,518.9 | -2.5 | -944.3 | 117.6 | 0.00 | 0.00 | 0.00 |
| 11,000.0 | 90.00 | 179.61 | 10,518.9 | -102.5 | -943.6 | 216.8 | 0.00 | 0.00 | 0.00 |
| 11,100.0 | 90.00 | 179.61 | 10,518.9 | -202.5 | -942.9 | 316.0 | 0.00 | 0.00 | 0.00 |
| 11,200.0 | 90.00 | 179.61 | 10,518.9 | -302.5 | -942.3 | 415.1 | 0.00 | 0.00 | 0.00 |
| 11,300.0 | 90.00 | 179.61 | 10,518.9 | -402.5 | -941.6 | 514.3 | 0.00 | 0.00 | 0.00 |
| 11,400.0 | 90.00 | 179.61 | 10,518.9 | -502.5 | -940.9 | 613.5 | 0.00 | 0.00 | 0.00 |
| 11,500.0 | 90.00 | 179.61 | 10,518.9 | -602.5 | -940.2 | 712.6 | 0.00 | 0.00 | 0.00 |
| 11,600.0 | 90.00 | 179.61 | 10,518.9 | -702.5 | -939.6 | 811.8 | 0.00 | 0.00 | 0.00 |
| 11,700.0 | 90.00 | 179.61 | 10,518.9 | -802.5 | -938.9 | 911.0 | 0.00 | 0.00 | 0.00 |
| 11,800.0 | 90.00 | 179.61 | 10,518.9 | -902.5 | -938.2 | 1,010.1 | 0.00 | 0.00 | 0.00 |
| 11,900.0 | 90.00 | 179.61 | 10,518.9 | -1,002.5 | -937.5 | 1,109.3 | 0.00 | 0.00 | 0.00 |
| 12,000.0 | 90.00 | 179.61 | 10,518.9 | -1,102.4 | -936.8 | 1,208.5 | 0.00 | 0.00 | 0.00 |
| 12,100.0 | 90.00 | 179.61 | 10,518.9 | -1,202.4 | -936.2 | 1,307.6 | 0.00 | 0.00 | 0.00 |
| 12,200.0 | 90.00 | 179.61 | 10,518.9 | -1,302.4 | -935.5 | 1,406.8 | 0.00 | 0.00 | 0.00 |
| 12,300.0 | 90.00 | 179.61 | 10,518.9 | -1,402.4 | -934.8 | 1,506.0 | 0.00 | 0.00 | 0.00 |
| 12,400.0 | 90.00 | 179.61 | 10,518.9 | -1,502.4 | -934.1 | 1,605.1 | 0.00 | 0.00 | 0.00 |
| 12,500.0 | 90.00 | 179.61 | 10,518.9 | -1,602.4 | -933.5 | 1,704.3 | 0.00 | 0.00 | 0.00 |
| | | | | | | | | | |
| 12,600.0 12,700.0 | 90.00 90.00 | 179.61 179.61 | 10,518.9 10,518.9 | -1,702.4 -1,802.4 | -932.8 -932.1 | 1,803.5 1,902.7 | 0.00 0.00 | 0.00 0.00 | 0.00 0.00 |
| 12,700.0 | 90.00 | 179.61 | 10,518.9 | -1,802.4 -1,902.4 | -932.1 -931.4 | 2,001.8 | 0.00 | 0.00 | 0.00 |
| 12,900.0 | 90.00 | 179.61 | 10,518.9 | -2,002.4 | -931.4 -930.8 | 2,101.0 | 0.00 | 0.00 | 0.00 |
| 13,000.0 | 90.00 | 179.61 | 10,518.9 | -2,102.4 | -930.0 | 2,101.0 | 0.00 | 0.00 | 0.00 |
| | | | | | | | | | |
| 13,100.0 | 90.00 | 179.61 | 10,518.9 | -2,202.4 | -929.4 | 2,299.3 | 0.00 | 0.00 | 0.00 |
| 13,200.0 | 90.00 | 179.61 | 10,518.9 | -2,302.4 | -928.7 | 2,398.5 | 0.00 | 0.00 | 0.00 |



Database: PEDM Company: Midland

Project: Lea County, NM (NAD 83 NME)

Site: Bandit 29 State Com

 Well:
 #401H

 Wellbore:
 OH

 Design:
 Plan #0.1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well #401H

kn=25' @ 3552.0usft kn=25' @ 3552.0usft

Grid

| nned 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) |
| 13,300.0 | 90.00 | 179.61 | 10,518.9 | -2,402.4 | -928.0 | 2,497.7 | 0.00 | 0.00 | 0.00 |
| 13,400.0 | 90.00 | 179.61 | 10,518.9 | -2,502.4 | -927.4 | 2,596.8 | 0.00 | 0.00 | 0.00 |
| 13,500.0 | 90.00 | 179.61 | 10,518.9 | -2,602.4 | -926.7 | 2,696.0 | 0.00 | 0.00 | 0.00 |
| 13,600.0 | 90.00 | 179.61 | 10,518.9 | -2,702.4 | -926.0 | 2,795.2 | 0.00 | 0.00 | 0.00 |
| 13,700.0 | 90.00 | 179.61 | 10,518.9 | -2,802.4 | -925.3 | 2,894.3 | 0.00 | 0.00 | 0.00 |
| 13,800.0 | 90.00 | 179.61 | 10,518.9 | -2,902.4 | -924.7 | 2,993.5 | 0.00 | 0.00 | 0.00 |
| 13,900.0 | 90.00 | 179.61 | 10,519.0 | -3,002.4 | -924.0 | 3,092.7 | 0.00 | 0.00 | 0.00 |
| 14,000.0 | 90.00 | 179.61 | 10,519.0 | -3,102.4 | -923.3 | 3,191.8 | 0.00 | 0.00 | 0.00 |
| 14,100.0 | 90.00 | 179.61 | 10,519.0 | -3,202.4 | -922.6 | 3,291.0 | 0.00 | 0.00 | 0.00 |
| 14,200.0 | 90.00 | 179.61 | 10,519.0 | -3,302.4 | -922.0 | 3,390.2 | 0.00 | 0.00 | 0.00 |
| 14,300.0 | 90.00 | 179.61 | 10,519.0 | -3,402.4 | -921.3 | 3,489.4 | 0.00 | 0.00 | 0.00 |
| 14,400.0 | 90.00 | 179.61 | 10,519.0 | -3,502.4 | -920.6 | 3,588.5 | 0.00 | 0.00 | 0.00 |
| 14,500.0 | 90.00 | 179.61 | 10,519.0 | -3,602.4 | -919.9 | 3,687.7 | 0.00 | 0.00 | 0.00 |
| 14,600.0 | 90.00 | 179.61 | 10,519.0 | -3,702.4 | -919.2 | 3,786.9 | 0.00 | 0.00 | 0.00 |
| 14,700.0 | 90.00 | 179.61 | 10,519.0 | -3,702.4 -3,802.4 | -919.2 -918.6 | 3,786.9 | 0.00 | 0.00 | 0.00 |
| 14,800.0 | 90.00 | 179.61 | 10,519.0 | -3,902.4 | -917.9 | 3,985.2 | 0.00 | 0.00 | 0.00 |
| 14,900.0 | 90.00 | 179.61 | 10,519.0 | -4,002.4 | -917.9 | 4,084.4 | 0.00 | 0.00 | 0.00 |
| 15,000.0 | 90.00 | 179.61 | 10,519.0 | -4,102.4 | -916.5 | 4,183.5 | 0.00 | 0.00 | 0.00 |
| | | | | | | | | | |
| 15,100.0 | 90.00 | 179.61 | 10,519.0 | -4,202.4 | -915.9 | 4,282.7 | 0.00 | 0.00 | 0.00 |
| 15,200.0 15,300.0 | 90.00 90.00 | 179.61 179.61 | 10,519.0 10,519.0 | -4,302.4 -4,402.4 | -915.2 -914.5 | 4,381.9 4,481.0 | 0.00 0.00 | 0.00 0.00 | 0.00 0.00 |
| 15,400.0 | 90.00 | 179.61 | 10,519.0 | -4,402.4 -4,502.4 | -914.5 -913.8 | 4,481.0 | 0.00 | 0.00 | 0.00 |
| 15,500.0 | 90.00 | 179.61 | 10,519.0 | -4,602.4 | -913.2 | 4,679.4 | 0.00 | 0.00 | 0.00 |
| | | | | | | | | | |
| 15,600.0 | 90.00 | 179.61 | 10,519.0 | -4,702.4 | -912.5 | 4,778.5 | 0.00 | 0.00 | 0.00 |
| 15,700.0 | 90.00 | 179.61 | 10,519.0 | -4,802.4 | -911.8 | 4,877.7 | 0.00 | 0.00 | 0.00 |
| 15,800.0 | 90.00 | 179.61 | 10,519.0 | -4,902.4 | -911.1 | 4,976.9 | 0.00 | 0.00 | 0.00 |
| 15,900.0 | 90.00 | 179.61 | 10,519.0 | -5,002.4 | -910.4 | 5,076.1 | 0.00 | 0.00 | 0.00 |
| 16,000.0 | 90.00 | 179.61 | 10,519.0 | -5,102.4 | -909.8 | 5,175.2 | 0.00 | 0.00 | 0.00 |
| 16,100.0 | 90.00 | 179.61 | 10,519.0 | -5,202.4 | -909.1 | 5,274.4 | 0.00 | 0.00 | 0.00 |
| 16,200.0 | 90.00 | 179.61 | 10,519.0 | -5,302.4 | -908.4 | 5,373.6 | 0.00 | 0.00 | 0.00 |
| 16,300.0 | 90.00 | 179.61 | 10,519.0 | -5,402.3 | -907.7 | 5,472.7 | 0.00 | 0.00 | 0.00 |
| 16,400.0 | 90.00 | 179.61 | 10,519.0 | -5,502.3 | -907.1 | 5,571.9 | 0.00 | 0.00 | 0.00 |
| 16,500.0 | 90.00 | 179.61 | 10,519.0 | -5,602.3 | -906.4 | 5,671.1 | 0.00 | 0.00 | 0.00 |
| 16,600.0 | 90.00 | 179.61 | 10,519.0 | -5,702.3 | -905.7 | 5,770.2 | 0.00 | 0.00 | 0.00 |
| 16,700.0 | 90.00 | 179.61 | 10,519.0 | -5,802.3 | -905.0 | 5,869.4 | 0.00 | 0.00 | 0.00 |
| 16,800.0 | 90.00 | 179.61 | 10,519.0 | -5,902.3 | -904.4 | 5,968.6 | 0.00 | 0.00 | 0.00 |
| 16,900.0 | 90.00 | 179.61 | 10,519.0 | -6,002.3 | -903.7 | 6,067.7 | 0.00 | 0.00 | 0.00 |
| 17,000.0 | 90.00 | 179.61 | 10,519.0 | -6,102.3 | -903.0 | 6,166.9 | 0.00 | 0.00 | 0.00 |
| 17,100.0 | 90.00 | 179.61 | 10,519.0 | -6,202.3 | -902.3 | 6,266.1 | 0.00 | 0.00 | 0.00 |
| 17,100.0 | 90.00 | 179.61 | 10,519.0 | -6,302.3 | -901.6 | 6,365.2 | 0.00 | 0.00 | 0.00 |
| 17,300.0 | 90.00 | 179.61 | 10,519.0 | -6,402.3 | -901.0 | 6,464.4 | 0.00 | 0.00 | 0.00 |
| 17,400.0 | 90.00 | 179.61 | 10,519.0 | -6,502.3 | -900.3 | 6,563.6 | 0.00 | 0.00 | 0.00 |
| 17,500.0 | 90.00 | 179.61 | 10,519.0 | -6,602.3 | -899.6 | 6,662.8 | 0.00 | 0.00 | 0.00 |
| | | | | | | | | | |
| 17,600.0 | 90.00 90.00 | 179.61 | 10,519.0 10,519.0 | -6,702.3 | -898.9 | 6,761.9 6,861.1 | 0.00 | 0.00 | 0.00 |
| 17,700.0 17,800.0 | 90.00 | 179.61 179.61 | 10,519.0 | -6,802.3 -6,902.3 | -898.3 -897.6 | 6,861.1 6,960.3 | 0.00 0.00 | 0.00 0.00 | 0.00 0.00 |
| 17,800.0 | 90.00 | 179.61 | 10,519.0 | -6,902.3 -7,002.3 | -897.6 -896.9 | 7,059.4 | 0.00 | 0.00 | 0.00 |
| 18,000.0 | 90.00 | 179.61 | 10,519.0 | -7,002.3 -7,102.3 | -896.2 | 7,059.4 | 0.00 | 0.00 | 0.00 |
| | | | | | | | | | |
| 18,100.0 | 90.00 | 179.61 | 10,519.0 | -7,202.3 | -895.6 | 7,257.8 | 0.00 | 0.00 | 0.00 |
| 18,181.7 | 90.00 | 179.61 | 10,519.0 | -7,284.0 | -895.0 | 7,338.8 | 0.00 | 0.00 | 0.00 |



Database: PEDM Company: Midland

Project: Lea County, NM (NAD 83 NME)

Site: Bandit 29 State Com

 Well:
 #401H

 Wellbore:
 OH

 Design:
 Plan #0.1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well #401H

kn=25' @ 3552.0usft kn=25' @ 3552.0usft

Grid

| 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(Bandit 29 State Co - plan hits target cer - Point | | 0.00 | 10,041.5 | 485.0 | -950.0 | 435,745.00 | 771,160.00 | 32° 11' 44.728 N | 103° 35' 25.325 W |
| FTP(Bandit 29 State Co - plan hits target cer - Point | | 0.00 | 10,254.2 | 435.0 | -949.0 | 435,695.00 | 771,161.00 | 32° 11' 44.233 N | 103° 35' 25.317 W |
| PBHL(Bandit 29 State C - plan hits target cer - Point | | 0.00 | 10,519.0 | -7,284.0 | -895.0 | 427,976.00 | 771,215.00 | 32° 10' 27.848 N | 103° 35' 25.310 W |



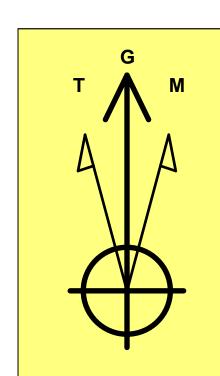
1050-

1400

2800-

4900

5950



Azimuths to Grid North
True North: -0.40°
Magnetic North: 5.87°

Magnetic Field Strength: 47225.9nT Dip Angle: 59.79° Date: 11/1/2023 Model: IGRF2020

To convert a Magnetic Direction to a Grid Direction, Add 5.87°
To convert a Magnetic Direction to a True Direction, Add 6.27° East
To convert a True Direction to a Grid Direction, Subtract 0.40°

Lea County, NM (NAD 83 NME)

Bandit 29 State Com #401H

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: #401H

3527.0

kn=25' @ 3552.0usft

 Northing
 Easting
 Latittude
 Longitude

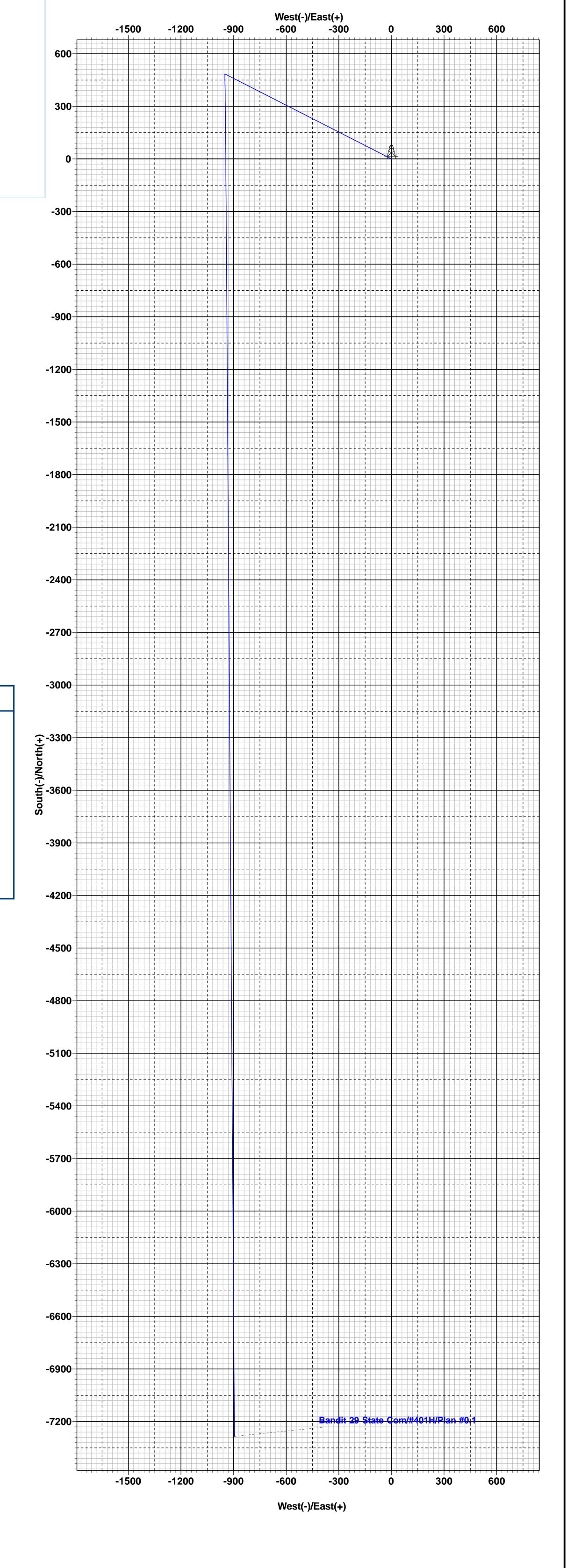
 435260.00
 772110.00
 32° 11' 39.863 N
 103° 35' 14.309 W

| | 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 | 1505.0 | 0.00 | 0.00 | 1505.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.0 | |
| 3 | 2050.2 | 10.90 | 297.05 | 2046.9 | 23.5 | -46.1 | 2.00 | 297.05 | -17.7 | |
| 4 | 7142.3 | 10.90 | 297.05 | 7047.1 | 461.5 | -903.9 | 0.00 | 0.00 | -347.8 | |
| 5 | 7687.5 | 0.00 | 0.00 | 7589.0 | 485.0 | -950.0 | 2.00 | 180.00 | -365.5 | |
| 6 | 10140.0 | 0.00 | 0.00 | 10041.5 | 485.0 | -950.0 | 0.00 | 0.00 | -365.5 | KOP(Bandit 29 State Com #401H) |
| 7 | 10360.5 | 26.46 | 178.85 | 10254.2 | 435.0 | -949.0 | 12.00 | 178.85 | -316.0 | FTP(Bandit 29 State Com #401H) |
| 8 | 10889.9 | 90.00 | 179.61 | 10518.9 | 7.6 | -944.4 | 12.00 | 0.85 | 107.6 | |
| 9 | 18181.7 | 90.00 | 179.61 | 10519.0 | -7284.0 | -895.0 | 0.00 | 0.00 | 7338.8 | PBHL(Bandit 29 State Com #401H) |

CASING DETAILS

No casing data is available

| WELLBORE TARGET DETAILS (MAP CO-ORDINATES) | | | | | | | |
|--|---------|---------|--------|-----------|-----------|--|--|
| Name | TVD | +N/-S | +E/-W | Northing | Easting | | |
| KOP(Bandit 29 State Com #401H) | 10041.5 | 485.0 | -950.0 | 435745.00 | 771160.00 | | |
| FTP(Bandit 29 State Com #401H) | 10254.2 | 435.0 | -949.0 | 435695.00 | 771161.00 | | |
| PBHL(Bandit 29 State Com #401H) | 10519.0 | -7284.0 | -895.0 | 427976.00 | 771215.00 | | |



10150
Bandit 29 State Com/#401H/Plan #0.1

10500
-350 0 350 700 1050 1400 1750 2100 2450 2800 3150 3500 3850 4200 4550 4900 5250 5600 5950 6300 6650 7000 7350

Vertical Section at 187.00°

Lea County, NM (NAD 83 NME)
Bandit 29 State Com
#401H
OH
Plan #0.1
16:37, November 01 2023

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 | OGRII | D: 7377 | | Da | nte: 11/6/ | 2023 | |
|---|-------------------------------|---|------------------------|--------------------------|------------------|------------------|----------|---------------------------------|
| II. Type: ⊠ Origina Other. | l □ Amendme | ent due to ☐ 19.15 | .27.9.D(6)(a) NN | MAC □ 19.15.27. | 9.D(6)(l | o) NMAC | | |
| If Other, please describe | : | | | | | | | |
| III. Well(s): Provide the be recompleted from a s | e following inf | formation for each 1 | new or recomple | ted well or set of | wells pr | oposed to | be dri | lled or proposed to |
| Well Name | API | ULSTR | Footages | Anticipated Oil BBL/D | | cipated MCF/D | | Anticipated roduced Water BBL/D |
| Bandit 29 State Com 401H | | A-29-24S-33E | 541' FNL & 474' FEL | +/- 1000 | +/- 35 | 500 | +/- 30 | 000 |
| IV. Central Delivery P V. Anticipated Scheduler or proposed to be recommodified Well Name | ıle: Provide th | e following inform | ation for each ne | ew or recompleted | l well or nt. | | lls prop | |
| wen Name | AFI | Spud Date | Date | Commencement | | Back I | | Date |
| Bandit 29 State Com 401H | | 11/20/23 | 12/2/23 | 2/01/24 | | 03/01/24 | ļ | 04/01/24 |
| VI. Separation Equipm VII. Operational Pract Subsection A through F VIII. Best Management during active and planner | tices: Attac of 19.15.27.8 | ch a complete descr NMAC. ⊠ Attach a comple | ription of the ac | tions Operator wi | ll take t | o comply | with the | he requirements of |

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. \square Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting | ng the |
|--|---------|
| production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacitates | city 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 | \square will \square will not have capaci | city to gather 100% of the | anticipated natural gas |
|--|---|----------------------------|-------------------------|
| production volume from the well prior to the date of first | st production. | | |

| VIII I : Programme Outside of the control of the | '(1 |
|---|--|
| | its existing well(s) connected to the same segment, or portion, of the |
| natural gas gathering system(s) described above will continue to m | neet anticipated increases in line pressure caused by the new well(s) |

| Attach Operator's plan to manage production in respons | e to the increased line pressure |
|--|----------------------------------|

| XIV. Confidentiality: Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided | 1 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 of the | ion |
| for which confidentiality is asserted and the basis for such assertion. | |

(h)

(i)

Section 3 - Certifications <u>Effective May 25, 2021</u>

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: power generation on lease; (a) **(b)** power generation for grid; (c) compression on lease; (d) liquids removal on lease; reinjection for underground storage; (e) **(f)** reinjection for temporary storage; **(g)** reinjection for enhanced oil recovery;

Section 4 - Notices

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

other alternative beneficial uses approved by the division.

fuel cell production; and

- (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.

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 with 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.

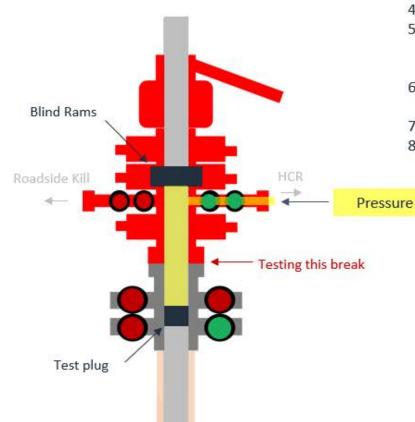


Break-test BOP & Offline Cementing:

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

- Full BOPE test at first installation on the pad.
- Full BOPE test every 21 days.
- This test will be conducted for 5M rated hole intervals only.
- Each rig requesting the break-test variance is capable of picking up the BOP without damaging components using winches, following API Standard 53, Well Control Equipment Systems for Drilling Wells (Fifth edition, December 2018, Annex C. Table C.4) which recognizes break testing as an acceptable practice.
- Function tests will be performed on the following BOP elements:
 - Annular à during each full BOPE test
 - Upper Pipe Rams à On trip ins where FIT required
 - Blind Rams à Every trip
 - Lower Pipe Rams à during each full BOPE test
- Break testing BOP and BOPE coupled with batch drilling operations and option to offline cement and/or remediate (if needed) any surface or intermediate sections, according to attached offline cementing support documentation.
- After the well section is secured, the BOP will be disconnected from the wellhead and walked with the rig to another well on the pad.
- TA cap will also be installed per Wellhead vendor procedure and pressure inside the
 casing will be monitored via the valve on the TA cap as per standard batch drilling
 ops.

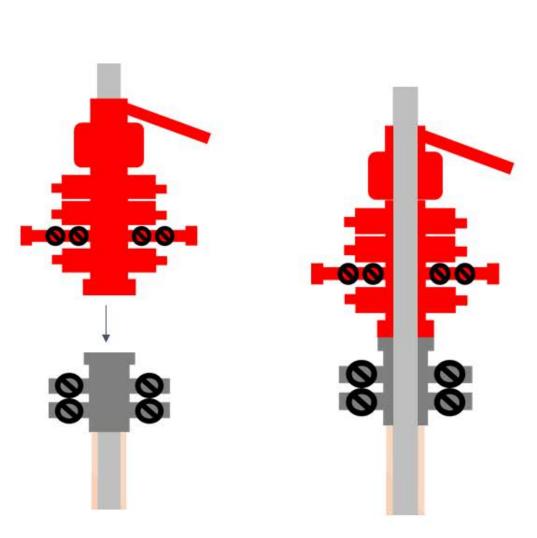
Break Test Diagram (HCR valve)

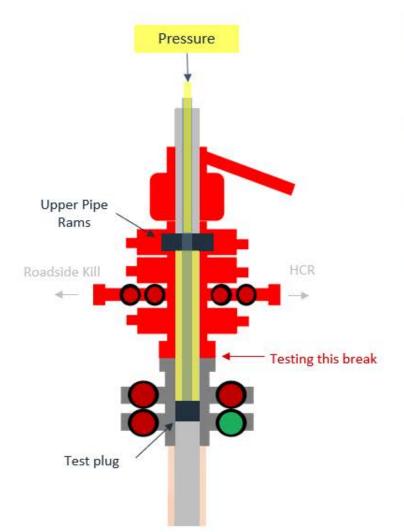


Steps

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

Break Test Diagram (Test Joint)





Steps

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



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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 nippled 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 nippled back up for any further remediation.



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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.
 - 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.



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Example Well Control Plan Content

A. Well Control Component Table

The table below, which covers the cementing of the <u>5M MASP (Maximum Allowable Surface Pressure) portion of the well</u>, 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 nippled 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.

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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

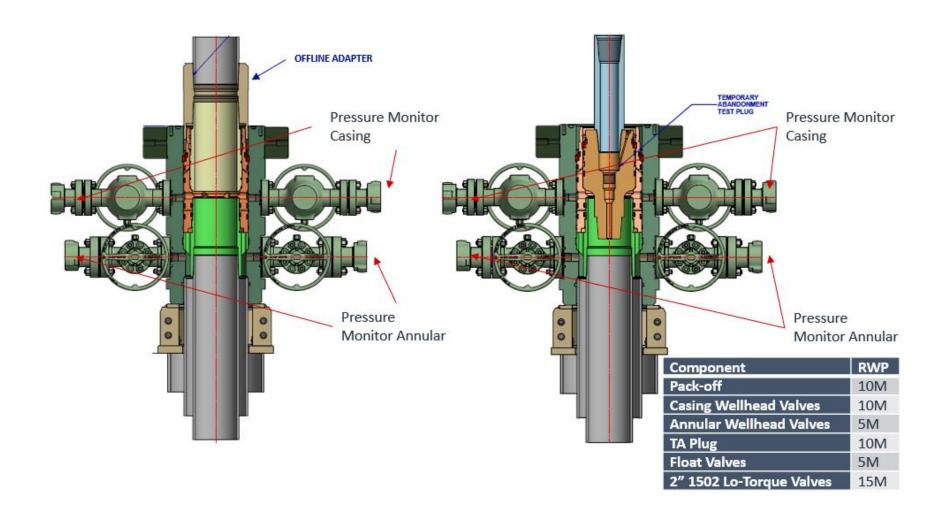
- 1. Sound alarm (alert crew).
- 2. Shut down pumps.
- 3. Shut-in Well (close valves to rig pits and open valve to rig choke line. Rig choke will already be in the closed position).
- 4. Confirm shut-in.
- 5. Notify tool pusher/company representative.
- 6. Open rig choke and begin pumping again taking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



Figure 1: Cameron TA Plug and Offline Adapter Schematic

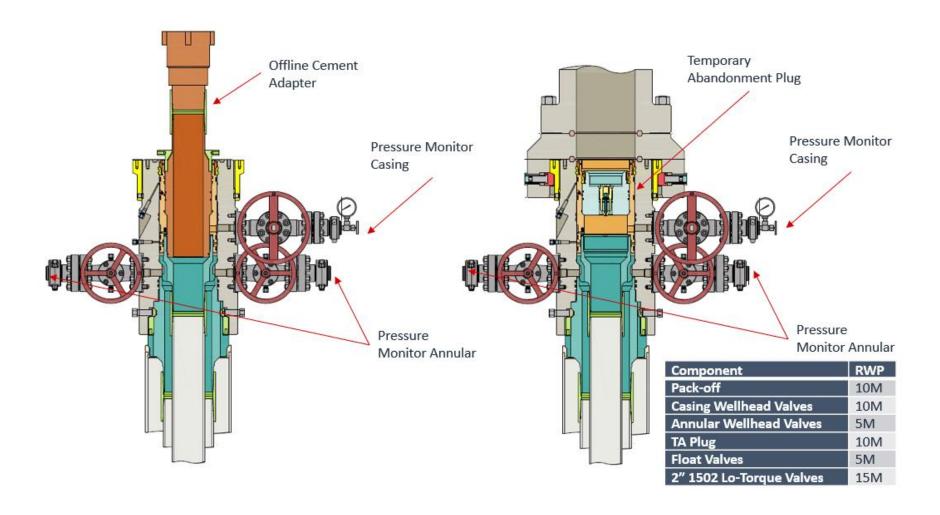


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Figure 2: Cactus TA Plug and Offline Adapter Schematic

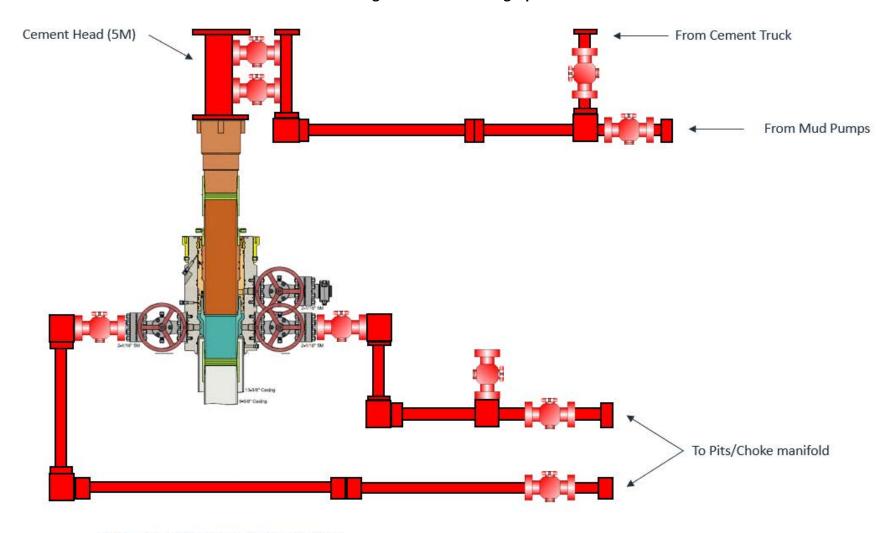


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Figure 3: Back Yard Rig Up



*** All Lines 10M rated working pressure

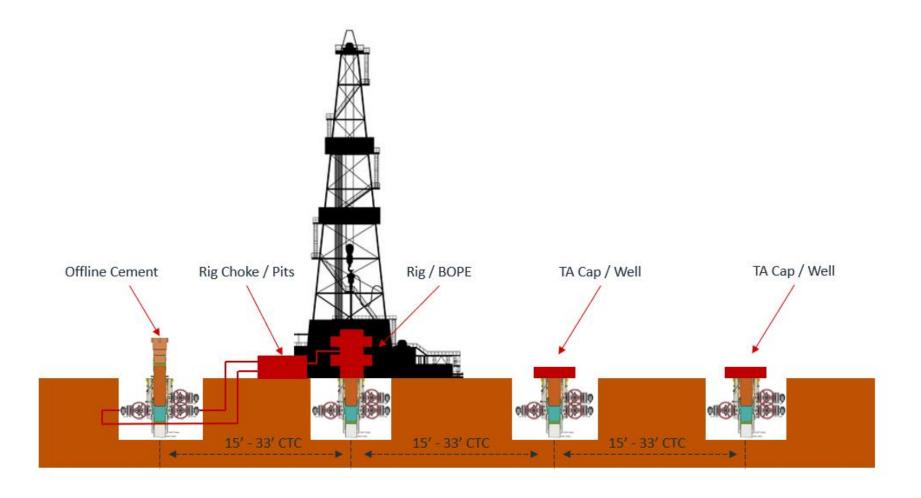
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Offline Intermediate Cementing Procedure

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Figure 4: Rig Placement Diagram



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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

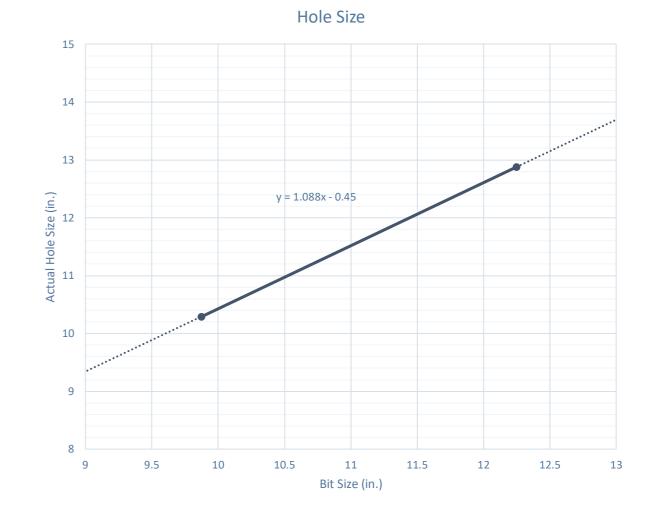
Volumetric Hole Size Calculation

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

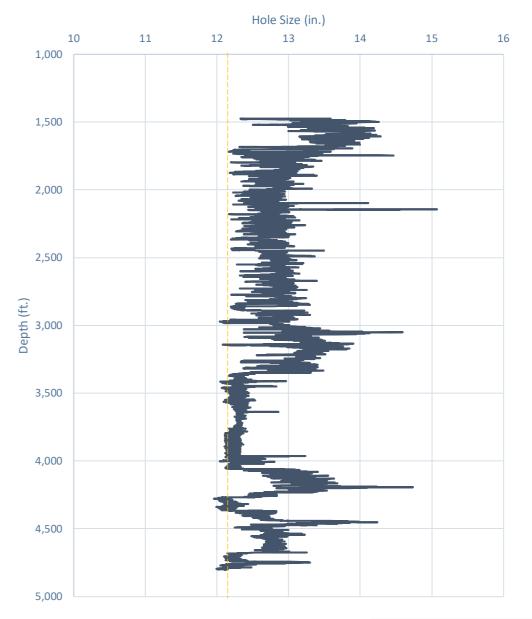


Modelo 10 Fed Com #501H

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

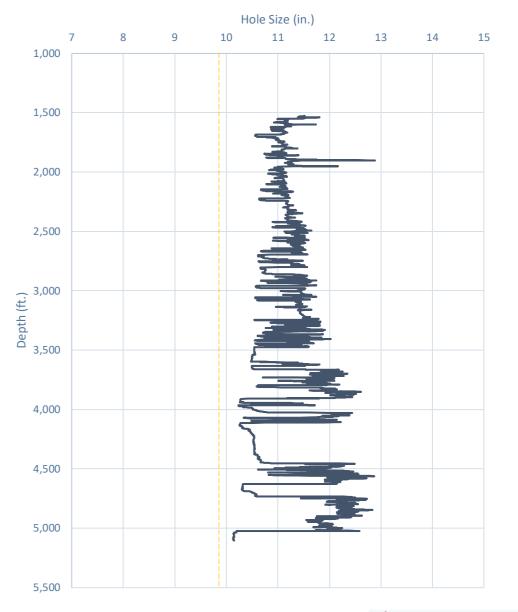


Caliper Hole Size (9.875")

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

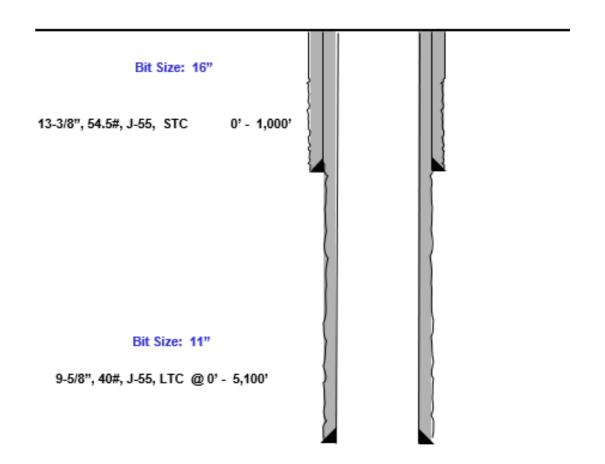
$$=\frac{11.52-9.625}{2}$$

• 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

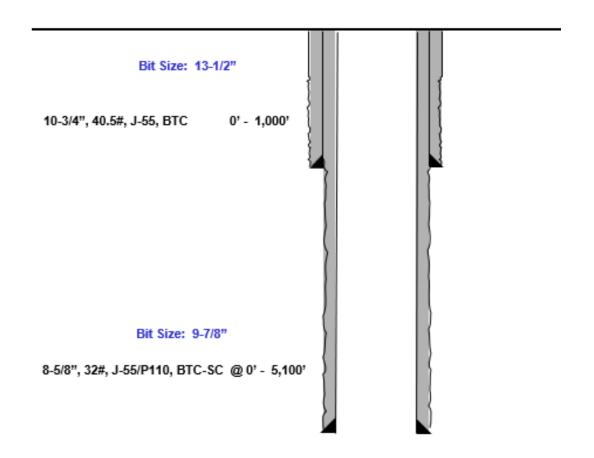
$$=\frac{10.295-8.625}{2}$$

• 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)

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



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Casing Spec Sheets

PERFORMANCE DATA

API LTC 9.625 in 40.00 lbs/ft K55 HC Technical Data Sheet

| 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 | | 1 | 1 |

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 | | | | |

11.454

Pipe Body and API Connections Performance Data

13.375 54.50/0.380 J55 PDF

New Search »

| « Back to Prev | vious List |
|----------------|------------|
| IISC | Metric |

| 6/8/2015 10:04:37 AM | | | | | |
|----------------------------------|--------|--------|-----|--------|----------|
| Mechanical Properties | Ptpe | втс | LTC | STC | |
| Minimum Yield Strength | 55,000 | - | - | - | psi |
| Maximum Yield Strength | 80,000 | - | - | - | psi |
| Minimum Tensile Strength | 75,000 | - | - | - | psi |
| Dimensions | Ptpe | втс | 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 | втс | 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 | втс | 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 |

Nom. Pipe Body Area

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5,250

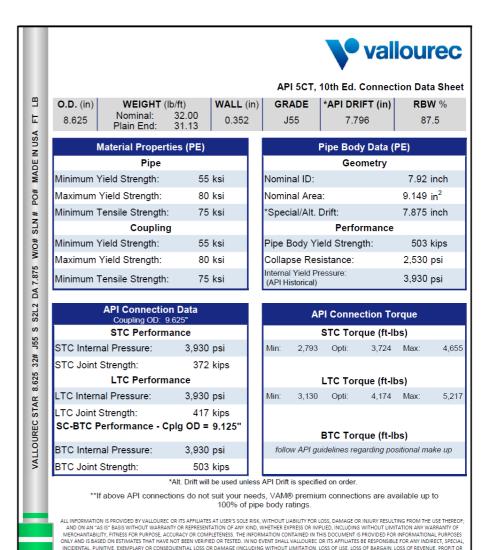
ft-lbs

Casing Spec Sheets

Pipe Body and API Connections Performance Data

10.750 40.50/0.350 J55 PDF

New Search » « Back to Previous List USC Metric 6/8/2015 10:14:05 AM BTC LTC Ptpe STC **Mechanical Properties** Minimum Yield Strength 55,000 psi Maximum Yield Strengtl 80,000 Minimum Tensile Strength 75,000 psi BTC LTC Pipe STC 11.750 Outside Diamete 10.750 11.750 in. Wall Thickness 0.350 Inside Diameter 10.050 10.050 10.050 Standard Drift 9.894 9.894 in. Alternate Drift in. 40.50 Nominal Linear Weight, T&C lbs/ft 38.91 lbs/ft Plain End Weight Performance Ptpe BTC LTC STC 1.580 1,580 1,580 Minimum Collapse Pressure psi 3,130 Minimum Internal Yield Pressure 3.130 3.130 629.00 Minimum Pipe Body Yield Strength 1000 lbs 700 Joint Strength 420 1000 lbs Reference Length 11,522 6,915 BTC Make-Up Data Ptpe STC 4.81 Make-Up Loss 3.50 in. Minimum Make-Up Torque 3,150 ft-lbs



ANTICIPATED PROFIT) HOWEVER CAUSED OR ARISING, AND WHETHER SUCH LOSSES OR DAMAGES WERE FORESEEABLE OR VALLOUREC OR ITS AFFILIATES WERE ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

Maximum Make-Up Torque