| Form 3160-3 (June 2015) | a c | | OMB No | APPROVED o. 1004-0137 inuary 31, 2018 |
|--|--------------------|--|----------------------------|---|
| UNITED STATE DEPARTMENT OF THE I BUREAU OF LAND MAN | INTERIOR | ſ | 5. Lease Serial No. | |
| APPLICATION FOR PERMIT TO I | | | 6. If Indian, Allotee | or Tribe Name |
| | | | | |
| 1a. Type of work: DRILL | REENTER | | 7. If Unit or CA Agr | reement, Name and No. |
| 1b. Type of Well: Oil Well Gas Well O | Other | | 8. Lease Name and V | Well No |
| 1c. Type of Completion: Hydraulic Fracturing | Single Zone | Multiple Zone | | 327369 |
| 2. Name of Operator | | | 9. API Well No. | |
| 6137 | 7 | | 30 | 0-025-47048 |
| 3a. Address | 3b. Phone N | lo. (include area code) | 10. Field and Pool, o | or Exploratory |
| 4. Location of Well <i>(Report location clearly and in accordance</i> | with any State | requirements.*) | 11. Sec., T. R. M. or | Blk. and Survey or Area |
| At surface | | | | - |
| At proposed prod. zone | | | | |
| 14. Distance in miles and direction from nearest town or post of | fice* | | 12. County or Parish | n 13. State |
| 15. Distance from proposed* location to nearest property or lease line, ft. | 16. No of ac | eres in lease 17. Spa | cing Unit dedicated to the | his well |
| (Also to nearest drig. unit line, if any) 18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. | 19. Proposed | d Depth 20. BL | M/BIA Bond No. in file | |
| 21. Elevations (Show whether DF, KDB, RT, GL, etc.) | 22. Approxi | mate date work will start* | 23. Estimated durati | on |
| | 24. Attac | hments | | |
| The following, completed in accordance with the requirements of (as applicable) | of Onshore Oil | and Gas Order No. 1, and the | Hydraulic Fracturing r | ule per 43 CFR 3162.3-3 |
| Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest Syste SUPO must be filed with the appropriate Forest Service Office | | Bond to cover the operatilitem 20 above). Operator certification. Such other site specific infigure. | - | |
| 25. Signature | Name | (Printed/Typed) | | Date |
| Title | I | | | L |
| Approved by (Signature) | Name | (Printed/Typed) | | Date |
| Title | Office | ; | | |
| Application approval does not warrant or certify that the applicat applicant to conduct operations thereon. Conditions of approval, if any, are attached. | int holds legal of | or equitable title to those righ | ts in the subject lease wh | hich would entitle the |
| Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, of the United States any false, fictitious or fraudulent statements | | | | iny department or agency |
| GCP Rec 03/30/2020 | | | 1 | |
| | | TH CONDITIONS | 04 | Kz 4/06/2020 |
| SL (Continued on page 2) | VED WI | | *(Ins | structions on page 2) |

Approval Date: 03/30/2020

1. Geologic Formations

| TVD of target | 9530 | Pilot hole depth | N/A |
|---------------|-------|------------------------------|-----|
| MD at TD: | 19637 | Deepest expected fresh water | |

Basin

| Formation | Depth (TVD) from KB | Water/Mineral Bearing/Target Zone? | Hazards* |
|-----------------|---------------------------|--|----------|
| | | Lone | |
| Rustler | 1117 | | |
| Salt | 1367 | | |
| Base of Salt | 4543 | | |
| Delaware | 4862 | | |
| Bone Spring 1st | 8933 | | |
| Bone Spring 2nd | 10355 | | |
| Bone Spring 3rd | 11250 | | |
| Wolfcamp | 12240 | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

*H2S, water flows, loss of circulation, abnormal pressures, etc.

| Hole Size | Casing | Interval | Csg. Size | Cog Size Wt | | Grade Conn | Min SF | Min SF | Min SF |
|-----------|--------|----------|-----------|-------------|-------------|------------|----------|--------|--------------------|
| Hole Size | From | То | Usg. Size | (PPF) | Graue | Com | Collapse | Burst | Tension |
| 17 1/2 | 0 | 1142 TVD | 13 3/8 | 48.0 | H40 | BTC | 1.125 | 1.25 | 1.6 |
| 12 1/4 | 0 | 4837 TVD | 9 5/8 | 40.0 | J-55 | BTC | 1.125 | 1.25 | 1.6 |
| 8 3/4 | 0 | TD | 5 1/2 | 17.0 | P110 | BTC | 1.125 | 1.25 | 1.6 |
| | | - | | BLM M | inimum Safe | ety Factor | 1.125 | 1 | 1.6 Dry 1.8 Wet |

2. Casing Program

• All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 IILB.1.h Must have table for continengcy casing.

• Rustler top will be validated via drilling parameters (i.e. reduction in ROP) and surface casing setting depth revised accordingly if needed.

• A variance is requested for collapse rating on intermediate casing. Operator will keep pipe full while running casing.

• Int casing shoe will be selected based on drilling data, gamma, and flows experienced while drilling. Setting depth with be revised accordingly if needed.

• A variance is requested to wave the centralizer requirement for the Intermediate casing and production casing.

| | Y or N |
|--|--------|
| Is casing new? If used, attach certification as required in Onshore Order #1 | Y |
| Does casing meet API specifications? If no, attach casing specificition sheet. | Y |
| Is premium or uncommon casing planned? If yes attach casing specification sheet. | Ν |
| Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading | Y |
| assumptions, casing design criteria). | |
| Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating | Y |
| of the casing? | |
| Is well located within Capitan Reef? | N |
| If yes, does production casing cement tie back a minimum of 50' above the Reef? | |
| Is well within the designated 4 string boundary. | |
| | |
| Is well located in SOPA but not in R-111-P? | N |
| If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing? | |
| | |
| Is well located in R-111-P and SOPA? | Ν |
| If yes, are the first three strings cemented to surface? | |
| Is 2 nd string set 100' to 600' below the base of salt? | |
| Is well located in high Cave/Karst? | N |
| If yes, are there two strings cemented to surface? | 11 |
| (For 2 string wells) If yes, is there a contingency casing if lost circulation occurs? | |
| (1 of 2 string wens) if yes, is there a contingency casing it lost encutation occurs: | |
| Is well located in critical Cave/Karst? | N |
| If yes, are there three strings cemented to surface? | |

| 3. Cementing Program | Wt Vld | | | | |
|----------------------------|--------------|--------------------|----------|------------|--|
| Casing | # Sks | TOC | (lb/gal) | (ft3/sack) | Slurry Description |
| Surface | 865 | Surf | 13.2 | 1.4 | Lead: Class C Cement + additives |
| Test | 529 | Surf | 9.0 | 3.3 | Lead: Class C Cement + additives |
| Int | 154 | 500' above shoe | 13.2 | 1.4 | Tail: Class H / C + additives |
| | 519 | Surf | 9.0 | 3.3 | 1st stage Lead: Class C Cement + additives |
| Int 1 Two Stage | 136 | 500' above shoe | 13.2 | 1.4 | 1st stage Tail: Class H / C + additives |
| w/ DV @ TVD of Delaware | 517 | Surf | 9.0 | 3.3 | 2nd stage Lead: Class C Cement + additives |
| | 136 | 500' above DV | 13.2 | 1.4 | 2nd stage Tail: Class H / C + additives |
| Int 1 | As Needed | Surf | 9.0 | 3.3 | Squeeze Lead: Class C Cement + additives |
| Intermediate | 529 | Surf | 9.0 | 3.3 | Lead: Class C Cement + additives |
| Squeeze | 154 | 500' above shoe | 13.2 | 1.4 | Tail: Class H / C + additives |
| Production | 395 | 500' Tieback | 9.0 | 3.3 | Lead: Class H /C + additives |
| Troduction | 2059 | КОР | 13.2 | 1.4 | Tail: Class H / C + additives |

3. Cementing Program (3-String Primary Design)

If a DV tool is ran the depth(s) will be adjusted based on hole conditions and cement volumes will be adjusted proportionally. Slurry weights will be adjusted based on estimated fracture gradient of the formation. DV tool will be set a minimum of 50 feet below previous casing and a minimum of 200 feet above current shoe. If cement is not returned to surface during the primary cement job on the surface casing string, a planned top job will be conducted immediately after completion of the primary job.

| Casing String | % Excess |
|---------------|----------|
| Surface | 50% |
| Intermediate | 30% |
| Production | 10% |

| BOP installed and tested before drilling which hole? | Size? | Min. Required WP | T | уре | ~ | Tested to: | | | | | | | | | | | | | | | | | | | | |
|---|---------|------------------------|------------|---------|----|-------------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------|-------|----|--|
| | | | Anı | nular | X | 50% of rated working pressure | | | | | | | | | | | | | | | | | | | | |
| Int 1 | 13-58" | 5M | Blind | d Ram | Х | | | | | | | | | | | | | | | | | | | | | |
| Int I | 15-58 | 5101 | Pipe | e Ram | | 5M | | | | | | | | | | | | | | | | | | | | |
| | | | Doub | le Ram | Х | 5101 | | | | | | | | | | | | | | | | | | | | |
| | | | Other* | | | | | | | | | | | | | | | | | | | | | | | |
| | | | An | nular | Х | 50% of rated working pressure | | | | | | | | | | | | | | | | | | | | |
| Production | 13-5/8" | 13-5/8" | 514 | 5/0" 5M | 5M | 5M | 5M | 5M | 5M | 5M | 5M | 5M | 5M | 5M | 5M | 5M | 5M | 5M | 5M | 5M | 5M | 5M | Blind | d Ram | Х | |
| Fioduction | | | 15-5/8 | 13-5/8 | | | | | | | | | | | | | | | | | | | e Ram | | 5M | |
| | | | | le Ram | X | 5111 | | | | | | | | | | | | | | | | | | | | |
| | | | Other* | | | | | | | | | | | | | | | | | | | | | | | |
| | | | Annul | ar (5M) | | | | | | | | | | | | | | | | | | | | | | |
| | | | Bline | d Ram | | | | | | | | | | | | | | | | | | | | | | |
| | | | Pipe Ram | | | | | | | | | | | | | | | | | | | | | | | |
| | | | Double Ram | | | | | | | | | | | | | | | | | | | | | | | |
| | | | Other* | | | | | | | | | | | | | | | | | | | | | | | |

4. Pressure Control Equipment (Three String Design)

5. Mud Program (Three String Design)

| Section | Туре | Weight (ppg) |
|--------------|--------|-----------------|
| Surface | FW Gel | 8.5-9 |
| Intermediate | Brine | 10-10.5 |
| Production | WBM | 8.5-9 |

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

| What will be used to monitor the loss or gain of fluid? | PVT/Pason/Visual Monitoring |
|---|-----------------------------|

6. Logging and Testing Procedures

| Logging, Co | Logging, Coring and Testing | | | | | | | |
|-------------|---|--|--|--|--|--|--|--|
| | Will run GR/CNL from TD to surface (horizontal well - vertical portion of hole). Stated logs run will be in the | | | | | | | |
| Х | Completion Report and sbumitted to the BLM. | | | | | | | |
| | No logs are planned based on well control or offset log information. | | | | | | | |
| | Drill stem test? If yes, explain. | | | | | | | |
| | Coring? If yes, explain. | | | | | | | |

| Additional | logs planned | Interval |
|------------|--------------|-------------------|
| | Resistivity | |
| | Density | |
| Х | CBL | Production casing |
| Х | Mud log | KOP to TD |
| | PEX | |

7. Drilling Conditions

| Condition | Specfiy what type and where? |
|----------------------------|------------------------------|
| BH pressure at deepest TVD | 4460 |
| Abnormal temperature | No |

Mitigation measure for abnormal conditions. Describe. Lost circulation material/sweeps/mud scavengers.

Hydrogren Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered measured values and formations will be provided to the BLM.

| Ν | H2S is present |
|---|--------------------|
| Y | H2S plan attached. |

8. Other facets of operation

Is this a walking operation? Potentially

- 1 If operator elects, drilling rig will batch drill the surface holes and run/cement surface casing; walking the rig to next wells on the pad.
- 2 The drilling rig will then batch drill the intermediate sections and run/cement intermediate casing; the wellbore will be isolated with a blind flange and pressure gauge installed for monitoring the well before walking to the next well.
- 3 The drilling rig will then batch drill the production hole sections on the wells with OBM, run/cement production casing, and install TA caps or tubing heads for completions.

NOTE: During batch operations the drilling rig will be moved from well to well however, it will not be removed from the pad until all wells have production casing run/cemented.

Will be pre-setting casing? Potentially

- 1 Spudder rig will move in and batch drill surface hole.
 - a. Rig will utilize fresh water based mud to drill surface hole to TD. Solids control will be handled entirely on a closed loop basis.
- 2 After drilling the surface hole section, the spudder rig will run casing and cement following all of the applicable rules and regulations (OnShore Order 2, all COAs and NMOCD regulations).
- 3 The wellhead will be installed and tested once the surface casing is cut off and the WOC time has been reached.
- 4 A blind flange with the same pressure rating as the wellhead will be installed to seal the wellbore. Pressure will be monitored with a pressure gauge installed on the wellhead.
- 5 Spudder rig operations is expected to take 4-5 days per well on a multi-well pad.
- 6 The NMOCD will be contacted and notified 24 hours prior to commencing spudder rig operations.
- 7 Drilling operations will be performed with drilling rig. At that time an approved BOP stack will be nippled up and tested on the wellhead before drilling operations commences on each well.
 - a. The NMOCD will be contacted / notified 24 hours before the drilling rig moves back on to the pad with the pre-set surface casing.

Attachments

X Directional Plan Other, describe

WCDSC Permian NM

Lea County (NAD83 New Mexico East) Sec 29-T23S-R33E Danger Noodle 29-20 Fed Com 2H

Wellbore #1

Plan: Permit Plan 1

Standard Planning Report - Geographic

10 October, 2019

| Database: Company: Project: Site: Well: Wellbore: Design: | WCE Lea Sec Dang Well | WCDSC Permian NMTVD RefeLea County (NAD83 New Mexico East)MD ReferSec 29-T23S-R33ENorth Ref | | | | | Co-ordinate Reference: Well Danger Noodle 29-20 Fed Com 2H eference: RKB @ 3708.60ft eference: RKB @ 3708.60ft Reference: Grid y Calculation Method: Minimum Curvature | | | |
|---|--------------------------------------|---|--|--|--|---|--|--------------------------------------|--|--|
| Project | Lea C | ounty (NAD83 N | New Mexico Ea | st) | | | | | | |
| Map System: Geo Datum: Map Zone: | North A | te Plane 1983 merican Datum exico Eastern Zo | | | System Dat | tum: | Me | ean Sea Level | | |
| Site | Sec 2 | 9-T23S-R33E | | | | | | | | |
| Site Position: From: Position Uncert | | t/Long (| Northi Eastin 0.00 ft Slot R | g: | | ,132.94 usft ,691.05 usft 13-3/16 " | Latitude: Longitude: Grid Converg | jence: | | 32.282023 -103.587947 0.40 ° |
| Well | Dange | er Noodle 29-20 | Fed Com 2H | | | | | | | |
| Well Position Position Uncert | +N/-S +E/-W ainty | , | 0.00 ft Ea | rthing: sting: ellhead Eleva | tion: | 462,679.83 768,377.69 | usft Lor | itude: ngitude: ound Level: | | 32.269845 -103.598767 3,683.60 ft |
| Wellbore | Wellt | oore #1 | | | | | | | | |
| Magnetics | Μ | odel Name | Sample | e Date | Declina (°) | tion | Dip A (° | Angle ') | Field St (กา | - |
| | | IGRF2015 | 9/17/2019 6.72 60.07 | | | | 47,72 | 8.91451874 | | |
| Design | Permi | t Plan 1 | | | | | | | | |
| Audit Notes: | | | | | | | | | | |
| Version: | | | Phase |): I | PROTOTYPE | Tie | On Depth: | | 0.00 | |
| Vertical Section | 1: | Γ | Depth From (TV (ft) | ′D) | +N/-S (ft) | | /-W ft) | Dir | rection (°) | |
| | | | 0.00 | | 0.00 | | 00 | 3 | 59.85 | |
| Plan Survey Too Depth Fro (ft) 1 | om Dep (| Date th To ft) Survey ,637.23 Permit | 10/10/2019 • (Wellbore) Plan 1 (Wellbor | e #1) | Tool Name MWD+HDGM OWSG MWD | | Remarks | | | |
| Plan Sections | | | | | | | | | | |
| Measured | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) | TFO (°) | Target |
| 0.00 3,500.00 3,865.52 8,372.90 8,616.58 | 0.00 0.00 3.66 3.66 0.00 | 0.00 0.00 171.00 171.00 0.00 | 0.00 3,500.00 3,865.27 8,363.49 8,607.00 | 0.00 0.00 -11.51 -295.33 -303.00 | 0.00 0.00 1.82 46.78 48.00 | 0.00 0.00 1.00 0.00 1.50 | 0.00 0.00 1.00 0.00 -1.50 | 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 171.00 0.00 180.00 | |
| 8,966.62 9,866.62 19,637.23 | 0.00 90.00 90.00 | 0.00 359.59 359.59 | 8,957.04 9,530.00 9,530.00 | -303.00 269.94 10,040.30 | 48.00 43.87 -26.51 | 0.00 10.00 0.00 | 0.00 10.00 0.00 | 0.00 0.00 0.00 | | BHL - Danger Noodl BHL - Danger Noodl |

| Database: | EDM r5000.141_Prod US | Local Co-ordinate Reference: | Well Danger Noodle 29-20 Fed Com 2H |
|-----------|------------------------------------|------------------------------|-------------------------------------|
| Company: | WCDSC Permian NM | TVD Reference: | RKB @ 3708.60ft |
| Project: | Lea County (NAD83 New Mexico East) | MD Reference: | RKB @ 3708.60ft |
| Site: | Sec 29-T23S-R33E | North Reference: | Grid |
| Well: | Danger Noodle 29-20 Fed Com 2H | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Permit Plan 1 | | |

| Measured Depth (ft) | | Azimuth | Vertical Depth (ft) | +N/-S | +E/-W | Map Northing (usft) | Map Easting (usft) | l etterde | l an cituda |
|---------------------------|------|------------------|---------------------------|-------------------|----------------|---------------------------|--------------------------|------------------------|----------------------------|
| | (°) | (°) | | (ft) | (ft) | (usit) | (usit) | Latitude | Longitude |
| 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | 462,679.83 | 768,377.69 | 32.269845 | -103.598767 |
| 100.00 | | 0.00 | 100.00 | 0.00 | 0.00 | 462,679.83 | 768,377.69 | 32.269845 | -103.598767 |
| 200.00 | | 0.00 | 200.00 | 0.00 | 0.00 | 462,679.83 | 768,377.69 | 32.269845 | -103.598767 |
| 300.00 | | 0.00 | 300.00 | 0.00 | 0.00 | 462,679.83 | 768,377.69 | 32.269845 | -103.598767 |
| 400.00 | | 0.00 | 400.00 | 0.00 | 0.00 | 462,679.83 | 768,377.69 | 32.269845 | -103.598767 |
| 500.00 | | 0.00 | 500.00 | 0.00 | 0.00 | 462,679.83 | 768,377.69 | 32.269845 | -103.598767 |
| 600.00 | | 0.00 | 600.00 | 0.00 | 0.00 | 462,679.83 | 768,377.69 | 32.269845 | -103.598767 |
| 700.00 | | 0.00 | 700.00 | 0.00 | 0.00 | 462,679.83 | 768,377.69 | 32.269845 | -103.598767 |
| 800.00 | | 0.00 | 800.00 | 0.00 | 0.00 | 462,679.83 | 768,377.69 | 32.269845 | -103.598767 |
| 900.00 | | 0.00 | 900.00 | 0.00 | 0.00 | 462,679.83 | 768,377.69 | 32.269845 | -103.598767 |
| 1,000.00 | | 0.00 | 1,000.00 | 0.00 0.00 | 0.00 0.00 | 462,679.83 | 768,377.69 768,377.69 | 32.269845 32.269845 | -103.598767 -103.598767 |
| 1,100.00 | | 0.00 | 1,100.00 | 0.00 | | 462,679.83 | 768,377.69 | 32.269845 | |
| 1,200.00 1,300.00 | | 0.00 0.00 | 1,200.00 1,300.00 | 0.00 | 0.00 0.00 | 462,679.83 462,679.83 | 768,377.69 | 32.269845 | -103.598767 -103.598767 |
| 1,400.00 | | 0.00 | 1,400.00 | 0.00 | 0.00 | 462,679.83 | 768,377.69 | 32.269845 | -103.598767 |
| 1,500.00 | | 0.00 | 1,500.00 | 0.00 | 0.00 | 462,679.83 | 768,377.69 | 32.269845 | -103.598767 |
| 1,600.00 | | 0.00 | 1,600.00 | 0.00 | 0.00 | 462,679.83 | 768,377.69 | 32.269845 | -103.598767 |
| 1,700.00 | | 0.00 | 1,700.00 | 0.00 | 0.00 | 462,679.83 | 768,377.69 | 32.269845 | -103.598767 |
| 1,800.00 | | 0.00 | 1,800.00 | 0.00 | 0.00 | 462,679.83 | 768,377.69 | 32.269845 | -103.598767 |
| 1,900.00 | | 0.00 | 1,900.00 | 0.00 | 0.00 | 462,679.83 | 768,377.69 | 32.269845 | -103.598767 |
| 2,000.00 | | 0.00 | 2,000.00 | 0.00 | 0.00 | 462,679.83 | 768,377.69 | 32.269845 | -103.598767 |
| 2,100.00 | | 0.00 | 2,100.00 | 0.00 | 0.00 | 462,679.83 | 768,377.69 | 32.269845 | -103.598767 |
| 2,200.00 | | 0.00 | 2,200.00 | 0.00 | 0.00 | 462,679.83 | 768,377.69 | 32.269845 | -103.598767 |
| 2,300.00 | | 0.00 | 2,300.00 | 0.00 | 0.00 | 462,679.83 | 768,377.69 | 32.269845 | -103.598767 |
| 2,400.00 | | 0.00 | 2,400.00 | 0.00 | 0.00 | 462,679.83 | 768,377.69 | 32.269845 | -103.598767 |
| 2,500.00 | | 0.00 | 2,500.00 | 0.00 | 0.00 | 462,679.83 | 768,377.69 | 32.269845 | -103.598767 |
| 2,600.00 | | 0.00 | 2,600.00 | 0.00 | 0.00 | 462,679.83 | 768,377.69 | 32.269845 | -103.598767 |
| 2,700.00 | | 0.00 | 2,700.00 | 0.00 | 0.00 | 462,679.83 | 768,377.69 | 32.269845 | -103.598767 |
| 2,800.00 | | 0.00 | 2,800.00 | 0.00 | 0.00 | 462,679.83 | 768,377.69 | 32.269845 | -103.598767 |
| 2,900.00 | 0.00 | 0.00 | 2,900.00 | 0.00 | 0.00 | 462,679.83 | 768,377.69 | 32.269845 | -103.598767 |
| 3,000.00 | 0.00 | 0.00 | 3,000.00 | 0.00 | 0.00 | 462,679.83 | 768,377.69 | 32.269845 | -103.598767 |
| 3,100.00 | 0.00 | 0.00 | 3,100.00 | 0.00 | 0.00 | 462,679.83 | 768,377.69 | 32.269845 | -103.598767 |
| 3,200.00 | 0.00 | 0.00 | 3,200.00 | 0.00 | 0.00 | 462,679.83 | 768,377.69 | 32.269845 | -103.598767 |
| 3,300.00 | 0.00 | 0.00 | 3,300.00 | 0.00 | 0.00 | 462,679.83 | 768,377.69 | 32.269845 | -103.598767 |
| 3,400.00 | 0.00 | 0.00 | 3,400.00 | 0.00 | 0.00 | 462,679.83 | 768,377.69 | 32.269845 | -103.598767 |
| 3,500.00 | 0.00 | 0.00 | 3,500.00 | 0.00 | 0.00 | 462,679.83 | 768,377.69 | 32.269845 | -103.598767 |
| 3,600.00 | 1.00 | 171.00 | 3,600.00 | -0.86 | 0.14 | 462,678.97 | 768,377.82 | 32.269843 | -103.598766 |
| 3,700.00 | 2.00 | 171.00 | 3,699.96 | -3.45 | 0.55 | 462,676.38 | 768,378.23 | 32.269836 | -103.598765 |
| 3,800.00 | | 171.00 | 3,799.86 | -7.76 | 1.23 | 462,672.07 | 768,378.92 | 32.269824 | -103.598763 |
| 3,865.52 | | 171.00 | 3,865.27 | -11.51 | 1.82 | 462,668.32 | 768,379.51 | 32.269814 | -103.598761 |
| 3,900.00 | | 171.00 | 3,899.68 | -13.68 | 2.17 | 462,666.15 | 768,379.85 | 32.269808 | -103.598760 |
| 4,000.00 | | 171.00 | 3,999.48 | -19.98 | 3.17 | 462,659.85 | 768,380.85 | 32.269790 | -103.598757 |
| 4,100.00 | | 171.00 | 4,099.28 | -26.28 | 4.16 | 462,653.55 | 768,381.85 | 32.269773 | -103.598754 |
| 4,200.00 | | 171.00 | 4,199.07 | -32.57 | 5.16 | 462,647.26 | 768,382.85 | 32.269756 | -103.598751 |
| 4,300.00 | | 171.00 | 4,298.87 | -38.87 | 6.16 | 462,640.96 | 768,383.84 | 32.269739 | -103.598748 |
| 4,400.00 | | 171.00 | 4,398.66 | -45.17 | 7.16 | 462,634.66 | 768,384.84 | 32.269721 | -103.598745 |
| 4,500.00 | | 171.00 | 4,498.46 | -51.46 | 8.15 | 462,628.37 | 768,385.84 | 32.269704 | -103.598742 |
| 4,600.00 | | 171.00 | 4,598.26 | -57.76 | 9.15 | 462,622.07 | 768,386.84 | 32.269687 | -103.598739 |
| 4,700.00 | | 171.00 | 4,698.05 | -64.06 | 10.15 | 462,615.77 | 768,387.83 | 32.269669 | -103.598735 |
| 4,800.00 | | 171.00 | 4,797.85 | -70.35 | 11.14 | 462,609.48 | 768,388.83 | 32.269652 | -103.598732 |
| 4,900.00 | | 171.00 | 4,897.65 | -76.65 | 12.14 | 462,603.18 | 768,389.83 | 32.269635 | -103.598729 |
| 5,000.00 | | 171.00 | 4,997.44 | -82.95 | 13.14 | 462,596.88 | 768,390.83 | 32.269617 | -103.598726 |
| 5,100.00 | | 171.00 | 5,097.24 | -89.24 -95.54 | 14.14 | 462,590.59 | 768,391.82 | 32.269600 32.269583 | -103.598723 -103.598720 |
| 5,200.00 5,300.00 | | 171.00 171.00 | 5,197.04 5,296.83 | -95.54 -101.84 | 15.13 16.13 | 462,584.29 462,577.99 | 768,392.82 768,393.82 | 32.269583 32.269565 | -103.598720 -103.598717 |
| 3,300.00 | 5.00 | 171.00 | 0,200.00 | -101.04 | 10.15 | 702,011.00 | 100,000.02 | 02.203000 | -100.000717 |

| Database: | EDM r5000.141_Prod US | Local Co-ordinate Reference: | Well Danger Noodle 29-20 Fed Com 2H |
|-----------|------------------------------------|------------------------------|-------------------------------------|
| Company: | WCDSC Permian NM | TVD Reference: | RKB @ 3708.60ft |
| Project: | Lea County (NAD83 New Mexico East) | MD Reference: | RKB @ 3708.60ft |
| Site: | Sec 29-T23S-R33E | North Reference: | Grid |
| Well: | Danger Noodle 29-20 Fed Com 2H | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Permit Plan 1 | | |

| 5,400,00 3,66 171,00 5,396,63 17,13 462,571,70 768,386,81 22,226548 -103,596714 5,600,00 3,66 171,00 5,696,20 -120,73 191,2 442,552,481 768,386,81 22,226531 -103,596708 5,700,00 3,66 171,00 5,596,00 -120,73 191,2 442,552,481 768,387,81 32,2264461 -103,596702 5,800,00 3,66 171,00 5,986,00 -133,32 211,2 442,553,82 778,388,80 32,2264471 -103,5969708 6,000,00 3,66 171,00 5,986,00 -143,517 78,402,400 32,2564471 -103,5969768 6,000,00 3,66 171,00 6,394,60 -171,10 22,11 442,251,53 78,402,40 32,259447 +103,596976 6,500,00 3,66 171,00 6,394,60 -171,10 22,10 442,251,53 78,404,79 32,229392 -103,596976 6,500,00 3,66 171,00 6,394,60 -171,10 22,10 442,405, | Measured Depth | Inclination | Azimuth | Vertical Depth | +N/-S | +E/-W | Map Northing (usft) | Map Easting (usft) | | |
|--|-------------------|--------------|--------------|-------------------|---------|-------|---------------------------|--------------------------|-----------|-------------|
| 5.600.00 3.66 171.00 5.690.20 120.73 191.2 442.555.491 768.396.81 322.25513 -103.598708 5.700.00 3.66 171.00 5.700.20 21.12 442.555.291 768.396.81 322.259149 -103.598702 5.800.00 3.66 171.00 5.705.20 21.12 442.554.61 768.398.81 322.259441 -103.598702 5.900.00 3.66 171.00 5.956.20 -153.51 22.11 445.540.21 768.398.81 322.259441 -103.5988926 6.000.00 3.66 171.00 6.954.80 -168.61 25.11 462.515.33 768.401.80 32.259332 -103.5988926 6.200.00 3.66 171.00 6.934.80 -171.40 2.811 425.513 768.403.47 32.269332 -103.598892 6.300.00 3.66 171.00 6.934.80 -171.40 2.811 442.515.407 788.403.79 32.269332 -103.598874 6.300.00 3.66 171.00 6.934.80 -163.4989 30.10 442.443.35 7764.407.78 32.269332 -103.598874 <t< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th>. ,</th><th>. ,</th><th></th><th>-</th></t<> | | | | | | | . , | . , | | - |
| 5 600.00 3 66 171.00 5.666.22 -120.73 19.12 442.596.91 7763.397.81 32.296946 -103.568702 5 600.00 3 66 171.00 5.765.62 -133.32 21.12 442.546.451 7763.397.81 32.2969461 -103.568702 5 900.00 3 66 171.00 5.965.41 -145.91 23.11 442.533.22 7768.404.81 32.269447 -103.568695 6,000.00 3 66 171.00 5.905.41 -152.21 14.11 442.575.02 7768.401.70 32.269447 -103.568685 6,200.00 3 66 171.00 6.195.00 -158.51 251.11 442.575.03 7768.401.77 32.269337 -103.568685 6,500.00 3 66 171.00 6.594.40 -164.80 21.91 442.852.13 7768.407.79 32.269337 -103.568685 6,600.00 3 66 171.00 6.594.39 -171.68 21.91 442.498.44 7768.407.78 32.269335 -103.5686877 6,700.00 3 66 171.00 6 | | | | | | | | | | |
| 5,700.00 3.66 171.00 5.690.00 3.66 171.00 5.690.00 3.66 171.00 5.690.00 3.66 171.00 5.690.00 3.66 171.00 5.690.00 3.66 171.00 5.690.00 3.66 171.00 5.690.01 3.66 171.00 5.695.11 133.62 2.21.12 445.233.92 768.400.80 3.2269444 1.03.596962 6.200.00 3.66 171.00 6.095.21 151.11 4452.513.30 768.402.80 3.2269409 1.03.596862 6.300.00 3.66 171.00 6.244.60 -167.10 2.71.10 4425.510.3 768.404.79 3.226937 1.03.596877 6.400.00 3.66 171.00 6.494.60 -171.10 1.644.80 1.411.442.510.3 768.404.79 3.2269337 -103.596877 6.400.00 3.66 171.00 6.493.81 -20.221.87 3.10 442.495.44 768.407.78 3.2269324 -103.596674 6.800.00 3.66 171.00 6.493.83 -20.214.77 3.10 < | | | | | | | | | | |
| 5.000.00 3.66 171.00 5.705.62 -133.32 21.12 442.546.51 7768.398.60 32.269447 -103.568672 5.000.00 3.66 171.00 5.905.64 -145.91 22.12 4462.543.92 7768.401.80 32.269444 -103.5686895 6.000.00 3.66 171.00 6.952.01 -152.21 24.11 462.527.62 7768.403.87 32.269449 -103.5686895 6.300.00 3.66 171.00 6.344.60 -161.81 25.11 462.502.47 7764.40.77 32.269337 -103.5686872 6.500.00 3.66 171.00 6.594.49 -171.10 27.10 442.502.44 7764.40.77 32.269337 -103.568677 6.700.00 3.66 171.00 6.593.49 -110.842.502.44 7764.40.77 32.269339 -103.568677 6.700.00 3.66 171.00 6.593.49 -104.24354 7764.407.77 32.269339 -103.568677 6.700.00 3.66 171.00 6.593.49 -170.442.450.87 7764.407.77 32.2693 | | | | | | | | | | |
| 5.000.00 3.66 171.00 5.965.61 -139.62 22.12 442.543.92 768.400.80 32.269441 -103.596865 6.000.00 3.66 171.00 6.095.21 -152.21 24.11 442.523.27 768.400.80 32.269442 -103.596865 6.000.00 3.66 171.00 6.195.00 -158.51 25.11 442.515.03 768.404.79 32.269392 -103.596865 6.000.00 3.66 171.00 6.494.00 171.10 27.10 442.505.77 768.404.79 32.269372 -103.596867 6.000.00 3.66 171.00 6.493.99 101 442.490.84 768.407.78 32.269332 -103.596871 6.000.00 3.66 171.00 6.693.38 -202.58 32.09 442.470.57 768.406.78 32.269238 -103.596867 7.000.00 3.66 171.00 6.933.8 -202.58 32.09 442.470.57 768.410.78 32.269233 -103.596667 7.000.00 3.66 171.00 7.927 -22.41.74 | | | | | | | , | | | |
| 6,000.00 3.66 171.00 5.995.41 -145.91 23.11 442.333.92 768.401.80 32.2944.4 -103.399692 6,000.00 3.66 171.00 6.195.00 -158.51 25.11 442.527.63 768.407.80 32.2944.90 -103.3996862 6,000.00 3.66 171.00 6.234.40 -164.80 768.407.79 32.2989375 -103.3996863 6,000.00 3.66 171.00 6.394.49 -177.10 422.508.73 768.407.79 32.2989375 -103.3996873 6,000.00 3.66 171.00 6.593.99 -108.399 29.10 442.496.14 768.406.79 32.2989305 -103.398674 6,000.00 3.66 171.00 6.593.89 -208.29 31.09 442.449.14 768.407.78 32.2989305 -103.398674 6,000.00 3.66 171.00 6.083.89 -208.29 31.09 442.449.17 788.407.78 32.2980291 -103.398676 7,000.00 3.66 171.00 7.0277 -2777 36.08 442.44 | | | | | | | | | | |
| 6,100.00 3.66 171.00 6,002.01 -152.21 24.11 442.227.62 768.402.80 32.2694427 -103.3698629 6,200.00 3.66 171.00 6,204.80 -164.80 26.11 442.251.33 768.407.79 32.269392 -103.369863 6,000.00 3.66 171.00 6,344.00 -177.10 22.81 442.261.73 768.404.79 32.269357 -103.369863 6,000.00 3.66 171.00 6,634.90 -177.40 28.10 442.2461.74 768.406.79 32.2693447 -103.3598671 6,000.00 3.66 171.00 6,693.99 -189.99 30.10 442.445.77 768.409.78 32.269342 -103.3598671 7,000.00 3.66 171.00 6,693.58 -202.58 33.09 452.477.25 768.409.76 32.269302 -103.3598671 7,000.00 3.66 171.00 6,993.36 -202.58 33.09 452.477.25 768.409.76 32.269271 -103.3598674 7,000.00 3.66 171.00 7.92 | | | | | | | | | | |
| 6.200.00 3.66 171.00 6.195.00 -168.51 25.11 442.515.03 768.403.79 32.2693075 -103.3698696 6.000.00 3.66 171.00 6.394.40 -171.10 27.10 442.508.73 7788.404.79 32.2693975 -103.3698696 6.000.00 3.66 171.00 6.594.49 -177.10 422.024.40 1788.404.79 32.269357 -103.3598677 6.000.00 3.66 171.00 6.593.99 188.99 30.10 442.404.87 788.406.79 32.269323 -103.3598671 6.800.00 3.66 171.00 6.783.78 -105.29 31.09 442.470.57 788.406.78 32.249282 -103.3598674 7.000.00 3.66 171.00 7.003.17 -215.18 34.09 442.470.37 788.417.77 32.269273 -103.5996674 7.000.00 3.66 171.00 7.022.77 -216.8 34.09 442.470.67 788.417.77 32.269273 -103.5996674 7.000.00 3.66 171.00 7.227.77 | | | | | | | | | | |
| 6.300.00 3.66 171.00 6.244.80 -164.80 26.11 462.515.03 768.404.79 32.28932 -103.598863 6.400.00 3.66 171.00 6.494.59 -177.40 28.10 462.502.44 768.404.79 32.289357 -103.599867 6.700.00 3.66 171.00 6.693.99 -177.40 28.10 442.448.44 768.406.77 32.289334 -103.599867 6.600.00 3.66 171.00 6.693.99 -198.99 31.00 442.448.84 768.407.78 32.289325 -103.5998674 6.600.00 3.66 171.00 6.693.58 -202.58 32.09 442.477.25 768.407.78 32.289283 -103.598661 7.000.00 3.66 171.00 7.983.17 -21.17 36.08 462.445.66 768.411.77 32.289283 -103.598661 7.400.00 3.66 171.00 7.982.77 -22.17 36.08 462.443.77 768.412.77 32.28919 -103.598661 7.400.00 3.66 171.00 7.982.77 | | | | | | | | , | | |
| 6.400.00 3.66 171.00 6.394.60 -171.10 422.508.73 768.404.79 32.269375 -103.599680 6.500.00 3.66 171.00 6.544.19 -183.69 29.10 442.2496.14 768.406.79 32.269330 -103.599677 6.700.00 3.66 171.00 6.693.75 -103.599671 30.599671 30.599671 6.800.00 3.66 171.00 6.693.75 -102.28 32.09 442.448.55 768.409.76 32.228320 -103.598671 6.900.00 3.66 171.00 6.933.78 -202.88 32.09 442.471.25 768.409.78 32.228228 -103.5986671 7.000.00 3.66 171.00 7.033.37 -215.18 34.09 442.446.66 768.411.77 32.26923 -103.5986671 7.000.00 3.66 171.00 7.392.77 -227.77 36.08 442.445.06 768.41.77 32.26919 -103.598667 7.900.00 3.66 171.00 7.392.16 -24.66 39.07 768.41.77 32.269114 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>,</td> <td></td> <td></td> <td></td> | | | | | | | , | | | |
| 6,500.00 3,66 171.00 6,441.39 -177.40 28.10 462,402.44 768,406.75 32,269357 -103,598677 6,700.00 3,66 171.00 6,693.99 -196.99 31.09 462,489.84 768,408.77 32,2269323 -103,598677 6,900.00 3,66 171.00 6,935.56 -202,58 32.09 442,471.25 768,408.78 32,226924 -103,598667 7,000.00 3,66 171.00 6,935.56 -202,58 32.09 442,471.25 768,408.78 32,226924 -103,5986664 7,000.00 3,66 171.00 7,933.78 -208,88 33.09 482,445.06 768,411.77 32,226923 -103,598665 7,000.00 3,66 171.00 7,932.77 -227.77 36.08 482,445.77 768,411.77 32,226914 -103,598665 7,900.00 3,66 171.00 7,932.76 -234.07 37.08 442,445.77 768,414.77 32,226914 -103,598645 7,900.00 3,66 171.00 7,991.75 </td <td></td> | | | | | | | | | | |
| 6,000,00 3,66 171,00 6,594,19 -183,89 29,10 462,496,14 768,406,79 32,269333 -103,598671 6,000,00 3,66 171,00 6,783,78 -196,29 31,09 462,483,55 768,406,73 32,269333 -103,598671 6,000,00 3,66 171,00 6,893,38 -202,28 32,09 462,477,25 768,410,78 32,269228 -103,598671 7,000,00 3,66 171,00 7,983,37 -215,18 34,09 482,445,65 768,410,78 32,269228 -103,598657 7,000,00 3,66 171,00 7,92,97 -227,77 36,08 462,452,06 768,413,77 32,269219 -103,598655 7,300,00 3,66 171,00 7,92,27 -227,77 36,08 462,433,47 768,413,77 32,269219 -103,598654 7,500,00 3,66 171,00 7,92,15 -265,29 40,07 462,428,88 768,410,76 32,269167 -103,598644 7,600,00 3,66 171,00 7,981,54 | | | | | | | | | | |
| 6,700.00 3,66 171.00 6,603.99 -189.99 30.10 462,438.45 768,407.78 32,269325 -103,598674 6,800.00 3,66 171.00 6,803.58 -202,58 32,09 462,477.25 768,400.78 32,26928 -103,598664 7,000.00 3,66 171.00 6,993.38 -208,88 30.09 462,477.25 768,410.78 32,269253 -103,598664 7,000.00 3,66 171.00 7,932.77 -221.47 30.08 462,445.06 768,411.77 32,269253 -103,598665 7,400.00 3,66 171.00 7,392.77 -221.47 30.08 462,445.77 768,415.76 32,269219 -103,598652 7,400.00 3,66 171.00 7,592.16 -246,66 39,07 462,433.17 768,415.76 32,269149 -103,598644 7,700.00 3,66 171.00 7,81.52 2.66 40.07 462,442.87 768,410.75 32,269149 -103,598643 7,800.00 3,66 171.00 7,81.52 | | | | | | | | | | |
| 6,800.00 3.66 171.00 6,793.78 -196.29 31.09 462,433.55 768,408.78 32.269305 -103.598661 7,000.00 3.66 171.00 6,893.58 -202.88 33.09 462,470.95 768,410.78 32.269271 -103.598661 7,000.00 3.66 171.00 7,093.17 -215.18 34.09 462,470.95 768,410.78 32.269231 -103.598661 7,200.00 3.66 171.00 7,927.7 -221.47 35.08 462,445.36 768,412.77 32.269231 -103.598662 7,400.00 3.66 171.00 7,927.67 -221.47 35.08 462,445.77 768,416.76 32.269167 -103.598662 7,500.00 3.66 171.00 7,492.86 -240.36 38.08 462,433.47 768,416.76 32.269167 -103.598646 7,600.00 3.66 171.00 7,917.5 -252.95 41.07 462,412.88 768,416.76 32.269114 -103.598641 7,900.00 3.66 171.00 7,917.5 | | | | | | | | | | |
| 6,900.00 3.66 171.00 6,893.38 -202.58 32.09 462.477.25 768.400.78 32.269284 -103.598664 7,000.00 3.66 171.00 7,093.17 -215.18 34.09 462.470.95 768.410.78 32.269273 -103.598664 7,200.00 3.66 171.00 7,192.97 -221.47 35.08 462.452.06 768.413.77 32.269219 -103.598665 7,400.00 3.66 171.00 7,392.56 -234.07 37.08 462.445.77 768.414.77 32.269149 -103.598665 7,600.00 3.66 171.00 7,592.16 -246.66 39.07 462.439.47 768.416.76 32.269149 -103.598649 7,600.00 3.66 171.00 7,991.35 -252.96 40.07 462.420.58 768.417.76 32.269149 -103.598644 7,900.00 3.66 171.00 7,991.34 -271.85 41.07 462.420.58 768.421.75 32.269147 -103.598644 7,900.00 3.66 171.00 7,991.34 <td></td> | | | | | | | | | | |
| 7,000.00 3.66 171.00 6.993.38 -208.88 33.09 462.470.95 768.410.78 32.269271 -103.598661 7,200.00 3.66 171.00 7,192.97 -21.18 34.09 462.445.85 768.411.77 32.269236 -103.598661 7,200.00 3.66 171.00 7,292.77 -221.47 36.08 462.445.77 768.412.77 32.269236 -103.598662 7,400.00 3.66 171.00 7,492.36 -240.36 38.08 462.445.77 768.414.77 32.269167 -103.598664 7,600.00 3.66 171.00 7,492.36 -240.36 38.08 462.433.47 768.416.76 32.269144 -103.598646 7,700.00 3.66 171.00 7,691.55 -252.95 41.07 462.426.58 768.417.76 32.269115 -103.598647 7,900.00 3.66 171.00 7,891.55 -226.95 42.07 9768.420.75 32.269107 -103.598643 7,900.00 3.66 171.00 8,190.14 -277.14 44.06 462.417.89 768.420.75 32.269003 -103.598624 | | | | | | | | | | |
| 7,100,00 3.66 171.00 7,031.7 -215.18 34.09 462,464.68 766,411.77 32,269233 -103,598658 7,300,00 3.66 171.00 7,192.97 -221.77 35.08 462,452.06 766,413.77 32,269236 -103,598658 7,400,00 3.66 171.00 7,392.56 -234.07 37.08 462,445.06 766,413.77 32,269167 -103,598649 7,600,00 3.66 171.00 7,592.16 -240.36 39.07 462,439.47 766,415.76 32,269167 -103,598643 7,600,00 3.66 171.00 7,592.16 -246.66 39.07 462,420.88 766,417.76 32,269147 -103,598644 7,800,00 3.66 171.00 7,917.5 -252.96 41.07 462,420.799 768,419.75 32,269132 -103,598643 8,000,00 3.66 171.00 7,891.55 -262.55 41.07 462,407.99 768,420.75 32,269004 -103,598643 8,000,00 3.66 171.00 8,199.4 -271.85 43.06 462,407.99 768,421.75 32,269004 -103,59 | | | | | | | | | | |
| 7,200,00 3.66 171.00 7,192.97 -221.47 35.08 462.458.36 766.412.77 32.269236 -103.598655 7,300,00 3.66 171.00 7,392.56 -224.07 37.08 462.452.76 768.413.77 32.269219 -103.598652 7,600,00 3.66 171.00 7,492.36 -240.36 30.08 462.433.17 768.414.77 32.269114 -103.598646 7,600,00 3.66 171.00 7,592.16 -246.66 30.07 462.433.17 768.416.76 32.269149 -103.598646 7,700,00 3.66 171.00 7,791.75 -259.25 41.07 462.420.58 768.418.76 32.269115 -103.598643 7,900,00 3.66 171.00 7,991.34 -271.85 43.06 462.401.69 768.413.75 32.269017 -103.598637 8,000,00 3.66 171.00 8,190.94 -284.44 45.06 462.401.69 768.421.75 32.269003 -103.598624 8,302.00 3.66 171.00 8,190.94 -284.34 45.06 462.399.10 768.421.75 32.269003 -103. | | | | | | | | | | |
| 7,300.00 3.66 171.00 7,392.56 -234.07 37.08 462,445.77 768,414.77 32.269219 -103.598652 7,600.00 3.66 171.00 7,392.56 -240.36 38.08 462,449.47 768,414.77 32.269219 -103.598642 7,600.00 3.66 171.00 7,592.16 -246.66 39.07 462,439.47 768,415.76 32.269149 -103.598644 7,700.00 3.66 171.00 7,691.95 -252.95 41.07 462,420.58 768,418.76 32.269115 -103.598643 7,800.00 3.66 171.00 7,991.75 -259.25 41.07 462,420.58 768,419.75 32.269115 -103.598637 8,000.00 3.66 171.00 7,991.34 -271.85 43.06 462,407.99 768,421.75 32.269097 -103.598634 8,100.00 3.66 171.00 8,190.49 -284.44 44.06 462,401.99 768,423.74 32.269012 -103.598624 8,200.00 3.66 171.00 8,290.73 -290.74 46.06 462,376.81 768,423.74 32.269012 -103. | | | | | | | | | | |
| 7,400.00 3.66 171.00 7,492.36 -240.36 38.08 462.443.77 768.414.77 32.269201 -103.598642 7,500.00 3.66 171.00 7,492.36 -246.66 39.07 462.433.17 768.415.76 32.269167 -103.598643 7,600.00 3.66 171.00 7,691.95 -252.96 40.07 462.428.8 768.417.76 32.269149 -103.598643 7,600.00 3.66 171.00 7,917.5 -259.25 41.07 462.420.58 768.412.75 32.269112 -103.598640 7,900.00 3.66 171.00 7,913.4 -271.85 43.06 462.401.69 768.421.75 32.269080 -103.598640 8,100.00 3.66 171.00 8,191.4 -278.14 44.06 462.401.69 768.421.75 32.269063 -103.598630 8,200.00 3.66 171.00 8,190.94 -284.44 45.06 462.395.39 768.421.75 32.269063 -103.598622 8,300.00 3.25 171.00 8,390.53 -296.53 47.74 462.376.83 768.424.47 32.269012 -103.5986 | , | | | | | | , | | | |
| 7,500.00 3.66 171.00 7,922.66 -240.36 38.08 462,433.17 768,416.76 32.269144 -103.598649 7,600.00 3.66 171.00 7,592.16 -246.66 39.07 462,433.17 768,416.76 32.269149 -103.598643 7,800.00 3.66 171.00 7,917.5 -259.92 41.07 462,420.58 768,417.76 32.269142 -103.598643 7,800.00 3.66 171.00 7,991.75 -226.95 42.07 462,412.28 768,420.75 32.269097 -103.598634 8,000.00 3.66 171.00 8,190.94 -221.85 43.06 462,407.99 768,422.75 32.269063 -103.598630 8,200.00 3.66 171.00 8,190.94 -224.44 45.06 462,395.39 768,422.75 32.269063 -103.598652 8,300.00 3.66 171.00 8,390.73 -290.74 46.06 462,384.51 768,423.74 32.269045 -103.598621 8,300.00 3.25 171.00 8,390.44 -301.24 47.72 462,376.85 768,425.68 32.269012 -103.5 | | | | | | | | | | |
| 7,600.00 3.66 171.00 7,592.16 -246.66 39.07 462.433.17 786.416.76 32.269167 -103.598646 7,700.00 3.66 171.00 7,691.95 -252.96 40.07 462.420.58 768.417.76 32.269142 -103.598643 7,900.00 3.66 171.00 7,991.55 -259.25 41.07 462.420.58 768.419.75 32.26917 -103.598643 8,000.00 3.66 171.00 7,991.34 -271.85 43.06 462.407.99 768.420.75 32.269097 -103.598634 8,100.00 3.66 171.00 8,191.4 -278.14 44.06 462.395.39 768.422.75 32.269045 -103.598624 8,200.00 3.66 171.00 8,390.53 -290.53 46.78 462.384.51 768.427.73 32.269045 -103.598624 8,372.90 3.66 171.00 8,390.53 -290.64 47.04 462.382.89 768.424.47 32.269013 -103.598624 8,500.00 1.75 171.00 8,390.42 -303.20 48.00 462.376.87 768.425.68 32.269012 -103.59 | , | | | | | | | | | |
| 7,700.00 3.66 171.00 7,691.95 -252.96 40.07 462.426.88 768.417.76 32.269149 -103.598643 7,800.00 3.66 171.00 7,917.75 -255.25 41.07 462.420.58 768.418.76 32.269115 -103.598637 8,000.00 3.66 171.00 7,991.34 -271.85 43.06 462.407.99 768.420.75 32.269063 -103.598637 8,000.00 3.66 171.00 8,190.94 -284.44 45.06 462.395.39 768.422.75 32.269063 -103.598627 8,300.00 3.66 171.00 8,290.73 -290.74 46.06 462.398.10 768.422.75 32.269045 -103.598624 8,300.00 3.66 171.00 8,390.53 -296.54 47.04 462.376.59 768.424.73 32.269017 -103.598621 8,500.00 1.75 171.00 8,590.42 -302.66 47.99 462.376.83 768.425.61 32.269012 -103.598618 8,00.00 0.00 8.607.00 -303.00 48.00 462.376.83 768.425.69 32.269012 -103.598618 | | | | | | | | | | |
| 7,800.00 3.66 171.00 7,791.75 -259.25 41.07 462,420.58 768,418.76 32.269132 -103.598634 7,900.00 3.66 171.00 7,891.55 -265.55 42.07 462,412.28 768,419.75 32.269097 -103.598634 8,000.00 3.66 171.00 8,091.14 -278.14 44.06 462,407.69 768,422.75 32.269097 -103.598634 8,000.00 3.66 171.00 8,190.94 -278.14 44.06 462,395.39 768,422.75 32.26903 -103.598624 8,200.00 3.66 171.00 8,290.73 -290.74 45.06 462,384.51 768,422.75 32.269033 -103.598624 8,372.90 3.66 171.00 8,390.53 -296.94 47.04 462,376.57 768,425.41 32.269012 -103.598618 8,610.00 0.25 171.00 8,490.44 -301.24 47.72 462,376.83 768,425.69 32.269012 -103.598618 8,610.00 0.00 8,607.00 -303.00 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>,</td> <td></td> <td></td> <td></td> | | | | | | | , | | | |
| 7,900.00 3.66 171.00 7,891.55 -265.55 42.07 462.414.28 768.419.75 32.269115 -103.598637 8,100.00 3.66 171.00 8,191.44 -271.85 43.06 462.407.99 768.420.75 32.269097 -103.598634 8,100.00 3.66 171.00 8,190.94 -284.44 45.06 462.395.39 768.422.75 32.269043 -103.598624 8,200.00 3.66 171.00 8,290.73 -290.74 46.06 462.389.10 768.422.74 32.269045 -103.598624 8,372.90 3.66 171.00 8,390.53 -296.94 47.04 462.389.10 768.424.47 32.269012 -103.598621 8,500.00 1.75 171.00 8,490.44 -301.24 47.72 462.376.83 768.425.68 32.269017 -103.598618 8,616.58 0.00 0.00 8,607.00 -303.00 48.00 462.376.83 768.425.69 32.269012 -103.598618 8,000.00 0.00 0.00 8,504.42 -303.00 48.00 462.376.83 768.425.69 32.269012 -103.5986 | | | | | | | , | | | |
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| 8,100.00 3.66 171.00 8,091.14 -278.14 44.06 462,401.69 768,421.75 32.269080 -103.598630 8,200.00 3.66 171.00 8,190.94 -284.44 45.06 462,395.39 768,422.75 32.269045 -103.598624 8,372.90 3.66 171.00 8,390.73 -290.74 46.06 462,381.0 768,424.47 32.269045 -103.598624 8,372.90 3.66 171.00 8,390.53 -296.94 47.04 462,382.89 768,424.47 32.269017 -103.598619 8,600.00 0.25 171.00 8,590.42 -302.96 47.99 462,376.83 768,425.68 32.269012 -103.598618 8,616.58 0.00 0.00 8,607.00 -303.00 48.00 462,376.83 768,425.69 32.269012 -103.598618 8,700.00 0.00 8,690.42 -303.00 48.00 462,376.83 768,425.69 32.269012 -103.598618 8,900.00 0.00 8,990.40 -302.03 48.00 | | | | | | | | | | |
| 8,200.00 3.66 171.00 8,190.94 -284.44 45.06 462,395.39 768,422.75 32.269063 -103.598627 8,300.00 3.66 171.00 8,290.73 -290.74 46.06 462,395.10 768,423.74 32.269045 -103.598622 8,400.00 3.25 171.00 8,380.53 -296.94 47.04 462,382.89 768,424.47 32.269028 -103.598621 8,500.00 1.75 171.00 8,590.42 -301.24 47.72 4462,376.87 768,425.68 32.269012 -103.598618 8,616.58 0.00 0.00 8,690.42 -303.00 48.00 462,376.83 768,425.69 32.269012 -103.598618 8,700.00 0.00 8,690.42 -303.00 48.00 462,376.83 768,425.69 32.269012 -103.598618 8,900.00 0.00 8,790.42 -303.00 48.00 462,376.83 768,425.69 32.269012 -103.598618 8,900.00 0.00 8,790.42 -303.00 48.00 462,376.83 768,425.69 32.269012 -103.598618 8,900.00 3. | | | | | | | | | | |
| 8,300.00 3.66 171.00 8,290.73 -290.74 46.06 462,389.10 768,423.74 32.269045 -103.598624 8,372.90 3.66 171.00 8,363.49 -295.33 46.78 462,384.51 768,424.47 32.269033 -103.598622 8,400.00 3.25 171.00 8,390.42 -301.24 47.72 462,376.87 768,425.41 32.269017 -103.598619 8,600.00 0.25 171.00 8,690.42 -302.96 47.99 462,376.87 768,425.69 32.269012 -103.598618 8,616.58 0.00 0.00 8,690.42 -303.00 48.00 462,376.83 768,425.69 32.269012 -103.598618 8,00.00 0.00 8,690.42 -303.00 48.00 462,376.83 768,425.69 32.269012 -103.598618 8,900.00 0.00 8,990.40 -303.00 48.00 462,376.83 768,425.69 32.269012 -103.598618 8,900.00 3.34 359.59 9,010.0 3.34 359.59 | | | | | | | | | | |
| 8,372.90 3.66 171.00 8,363.49 -295.33 46.78 462,384.51 768,424.47 32.269033 -103.598622 8,400.00 3.25 171.00 8,390.53 -296.94 47.04 462,382.89 768,424.73 32.269028 -103.598619 8,500.00 1.75 171.00 8,490.44 -302.96 47.99 462,376.85 768,425.64 32.269012 -103.598618 8,616.58 0.00 0.00 8,607.00 -303.00 48.00 462,376.83 768,425.69 32.269012 -103.598618 8,700.00 0.00 8,690.42 -303.00 48.00 462,376.83 768,425.69 32.269012 -103.598618 8,900.00 0.00 8,890.42 -303.00 48.00 462,376.83 768,425.69 32.269012 -103.598618 8,900.00 0.00 8,957.04 -303.00 48.00 462,376.83 768,425.69 32.269012 -103.598618 8,900.00 3.34 359.59 9,904.92 -287.55 47.89 462,377.83 </td <td></td> | | | | | | | | | | |
| 8,400.00 3.25 171.00 8,390.53 -296.94 47.04 462,382.89 768,424.73 32.269028 -103.598621 8,500.00 1.75 171.00 8,490.44 -301.24 47.72 462,376.87 768,425.61 32.269017 -103.598618 8,601.05 0.00 8,500.42 -302.96 47.99 462,376.83 768,425.68 32.269012 -103.598618 8,616.58 0.00 0.00 8,607.00 -303.00 48.00 462,376.83 768,425.69 32.269012 -103.598618 8,700.00 0.00 0.00 8,690.42 -303.00 48.00 462,376.83 768,425.69 32.269012 -103.598618 8,900.00 0.00 0.00 8,90.42 -303.00 48.00 462,376.83 768,425.69 32.269012 -103.598618 8,906.62 0.00 0.00 8,957.04 -303.00 48.00 462,376.83 768,425.69 32.269014 -103.598618 9,900.00 3.34 359.59 8,996.40 -302.03 47.99 462,377.80 768,425.68 32.269014 -103.598618 9,000.03. | | | | | | | | | | |
| 8,500.00 1.75 171.00 8,490.44 -301.24 47.72 462,378.59 768,425.41 32.269017 -103.598619 8,600.00 0.25 171.00 8,590.42 -302.96 47.99 462,376.87 768,425.68 32.269012 -103.598618 8,616.58 0.00 0.00 8,607.00 -303.00 48.00 462,376.83 768,425.69 32.269012 -103.598618 8,700.00 0.00 0.00 8,690.42 -303.00 48.00 462,376.83 768,425.69 32.269012 -103.598618 8,900.00 0.00 0.00 8,790.42 -303.00 48.00 462,376.83 768,425.69 32.269012 -103.598618 8,900.00 0.00 8,997.40 -303.00 48.00 462,377.83 768,425.69 32.269014 -103.598618 8,900.00 3.34 359.59 9,908.22 -287.55 47.89 462,377.80 768,425.68 32.269014 -103.598618 9,100.00 13.34 359.59 9,271.92 -206.72 47.32 462,471.11 768,425.68 32.269054 -103.598618 < | | | | | | | | | | |
| 8,600.00 0.25 171.00 8,590.42 -302.96 47.99 462,376.87 768,425.68 32.269012 -103.598618 8,616.58 0.00 0.00 8,607.00 -303.00 48.00 462,376.83 768,425.69 32.269012 -103.598618 8,700.00 0.00 0.00 8,609.42 -303.00 48.00 462,376.83 768,425.69 32.269012 -103.598618 8,800.00 0.00 0.00 8,790.42 -303.00 48.00 462,376.83 768,425.69 32.269012 -103.598618 8,900.00 0.00 0.00 8,897.44 -303.00 48.00 462,376.83 768,425.69 32.269012 -103.598618 8,966.62 0.00 0.00 8,957.04 -303.00 48.00 462,376.83 768,425.68 32.269014 -103.598618 9,100.00 13.34 359.59 8,909.40 -302.03 47.99 462,377.80 768,425.68 32.269014 -103.598618 9,200.00 23.34 359.59 9,184.02 -256.12 47.66 462,377.80 768,425.68 32.269014 -103.598618 </td <td></td> | | | | | | | | | | |
| 8,616.58 0.00 0.00 8,607.00 -303.00 48.00 462,376.83 768,425.69 32.269012 -103.598618 8,700.00 0.00 0.00 8,690.42 -303.00 48.00 462,376.83 768,425.69 32.269012 -103.598618 8,900.00 0.00 8,790.42 -303.00 48.00 462,376.83 768,425.69 32.269012 -103.598618 8,900.00 0.00 8,990.42 -303.00 48.00 462,376.83 768,425.69 32.269012 -103.598618 8,966.62 0.00 0.00 8,957.04 -303.00 48.00 462,376.83 768,425.69 32.269012 -103.598618 9,000.00 3.34 359.59 8,990.40 -302.03 47.99 462,377.80 768,425.68 32.269014 -103.598618 9,100.00 13.34 359.59 9,089.22 -287.55 47.89 462,371 768,425.58 32.269014 -103.598618 9,300.00 33.34 359.59 9,184.02 -256.12 47.66 462,471.11 768,425.68 32.269014 -103.598618 9,400.00 </td <td></td> | | | | | | | | | | |
| 8,700.00 0.00 8,690.42 -303.00 48.00 462,376.83 768,425.69 32.269012 -103.598618 8,800.00 0.00 0.00 8,790.42 -303.00 48.00 462,376.83 768,425.69 32.269012 -103.598618 8,900.00 0.00 0.00 8,890.42 -303.00 48.00 462,376.83 768,425.69 32.269012 -103.598618 8,966.62 0.00 0.00 8,957.04 -303.00 48.00 462,376.83 768,425.69 32.269012 -103.598618 KOP & FTP @ 8967' MD, 200' FSL, 1320' FWL 9,000.00 3.34 359.59 9,989.22 -287.55 47.89 462,377.80 768,425.58 32.269014 -103.598618 9,100.00 13.34 359.59 9,271.92 -208.72 47.32 462,471.11 768,425.01 32.269271 -103.598618 9,300.00 33.34 359.59 9,271.92 -208.72 47.32 462,607.67 768,424.56 32.269441 -103.598618 9,500.00 53.34 359.59 9,416.65 -72.16 46.34 462,607.67 | | | | | | | | | | |
| 8,800.00 0.00 8,790.42 -303.00 48.00 462,376.83 768,425.69 32.269012 -103.598618 8,900.00 0.00 0.00 8,890.42 -303.00 48.00 462,376.83 768,425.69 32.269012 -103.598618 8,966.62 0.00 0.00 8,957.04 -303.00 48.00 462,376.83 768,425.69 32.269012 -103.598618 KOP & FTP @ 8967' MD, 200' FSL, 1320' FWL 9,000.00 3.34 359.59 8,990.40 -302.03 47.99 462,377.80 768,425.68 32.269014 -103.598618 9,100.00 13.34 359.59 9,184.02 -256.12 47.89 462,327.1 768,425.58 32.269054 -103.598618 9,300.00 33.34 359.59 9,184.02 -256.12 47.86 462,423.71 768,425.66 32.269141 -103.598618 9,400.00 43.34 359.59 9,250.26 -146.77 46.87 462,533.06 768,424.56 32.269441 -103.598618 9,500.00 53.34 359.59 9,469.07 12.85 45.72 462,692.68 | | | | | | | | | | |
| 8,900.00 0.00 8,890.42 -303.00 48.00 462,376.83 768,425.69 32.269012 -103.598618 8,966.62 0.00 0.00 8,957.04 -303.00 48.00 462,376.83 768,425.69 32.269012 -103.598618 KOP & FTP @ 8967' MD, 200' FSL, 1320' FWL 9,000.00 3.34 359.59 8,990.40 -302.03 47.99 462,377.80 768,425.68 32.269014 -103.598618 9,100.00 13.34 359.59 9,089.22 -287.55 47.89 462,392.28 768,425.58 32.269014 -103.598618 9,200.00 23.34 359.59 9,184.02 -256.12 47.66 462,423.71 768,425.05 32.269141 -103.598618 9,300.00 33.34 359.59 9,350.26 -146.77 46.37 462,533.06 768,424.56 32.269441 -103.598618 9,400.00 43.34 359.59 9,350.26 -146.77 46.87 462,533.06 768,424.56 32.269441 -103.598618 9,500.00 63.34 359.59 9,505.94 | | | | , | -303.00 | | | | | |
| 8,966.62 0.00 0.00 8,957.04 -303.00 48.00 462,376.83 768,425.69 32.269012 -103.598618 KOP & FTP @ 8967' MD, 200' FSL, 1320' FWL 9,000.00 3.34 359.59 8,990.40 -302.03 47.99 462,377.80 768,425.68 32.269014 -103.598618 9,100.00 13.34 359.59 9,089.22 -287.55 47.89 462,371 768,425.58 32.269054 -103.598618 9,200.00 23.34 359.59 9,184.02 -256.12 47.66 462,423.71 768,425.35 32.269141 -103.598618 9,300.00 33.34 359.59 9,271.92 -208.72 47.32 462,471.11 768,425.01 32.269271 -103.598618 9,400.00 43.34 359.59 9,350.26 -146.77 46.87 462,607.67 768,424.02 32.269441 -103.598619 9,500.00 53.34 359.59 9,416.65 -72.16 46.34 462,607.67 768,424.02 32.269840 -103.598619 9,600.0 | | | | | | | | | | |
| KOP & FTP @ 8967' MD, 200' FSL, 1320' FWL 9,000.00 3.34 359.59 8,990.40 -302.03 47.99 462,377.80 768,425.68 32.269014 -103.598618 9,100.00 13.34 359.59 9,089.22 -287.55 47.89 462,392.28 768,425.58 32.269054 -103.598618 9,200.00 23.34 359.59 9,184.02 -256.12 47.66 462,423.71 768,425.35 32.269141 -103.598618 9,300.00 33.34 359.59 9,271.92 -208.72 47.32 462,471.11 768,425.66 32.269271 -103.598618 9,400.00 43.34 359.59 9,350.26 -146.77 46.87 462,533.06 768,424.02 32.269441 -103.598618 9,500.00 53.34 359.59 9,416.65 -72.16 46.34 462,607.67 768,424.02 32.269846 -103.598619 9,600.00 63.34 359.59 9,469.07 12.85 45.72 462,692.68 768,422.04 32.270135 -103.598619 | 8,966.62 | 0.00 | 0.00 | 8,957.04 | -303.00 | 48.00 | 462,376.83 | 768,425.69 | 32.269012 | -103.598618 |
| 9,000.003.34359.598,990.40-302.0347.99462,377.80768,425.6832.269014-103.5986189,100.0013.34359.599,089.22-287.5547.89462,392.28768,425.5832.269054-103.5986189,200.0023.34359.599,184.02-256.1247.66462,423.71768,425.3532.269141-103.5986189,300.0033.34359.599,271.92-208.7247.32462,471.11768,425.0132.269271-103.5986189,400.0043.34359.599,350.26-146.7746.87462,533.06768,424.5632.269441-103.5986189,500.0053.34359.599,416.65-72.1646.34462,607.67768,424.0232.269646-103.5986199,600.0063.34359.599,469.0712.8545.72462,692.68768,423.4132.269880-103.5986199,700.0073.34359.599,505.94105.6645.06462,785.49768,422.7432.270135-103.5986199,800.0083.34359.599,526.13203.4744.35462,883.30768,422.0432.270404-103.5986199,800.00359.599,530.00269.9443.87462,949.77768,421.3232.270587-103.5986199,900.0090.00359.599,530.00303.3243.63462,983.15768,421.3232.270678-103.5986199,000.0090.00359.599,530.00303.3243.6346 | KOP & F | TP @ 8967' M | D. 200' FSL. | 1320' FWL | | | | | | |
| 9,200.0023.34359.599,184.02-256.1247.66462,423.71768,425.3532.269141-103.5986189,300.0033.34359.599,271.92-208.7247.32462,471.11768,425.0132.269271-103.5986189,400.0043.34359.599,350.26-146.7746.87462,533.06768,424.5632.269441-103.5986189,500.0053.34359.599,416.65-72.1646.34462,607.67768,424.0232.269646-103.5986199,600.0063.34359.599,469.0712.8545.72462,692.68768,423.4132.269880-103.5986199,700.0073.34359.599,505.94105.6645.06462,785.49768,422.7432.270135-103.5986199,800.0083.34359.599,526.13203.4744.35462,883.30768,422.0432.270404-103.5986199,806.6290.00359.599,530.00269.9443.87462,949.77768,421.3232.270678-103.5986199,900.0090.00359.599,530.00303.3243.63462,983.15768,421.3232.270678-103.59861910,000.0090.00359.599,530.00403.3242.91463,083.15768,420.6032.27053-103.59861910,100.0090.00359.599,530.00503.3142.19463,183.14768,419.8832.271228-103.598619 | | - | | | -302.03 | 47.99 | 462,377.80 | 768,425.68 | 32.269014 | -103.598618 |
| 9,300.0033.34359.599,271.92-208.7247.32462,471.11768,425.0132.269271-103.5986189,400.0043.34359.599,350.26-146.7746.87462,533.06768,424.5632.269441-103.5986189,500.0053.34359.599,416.65-72.1646.34462,607.67768,424.0232.269646-103.5986199,600.0063.34359.599,469.0712.8545.72462,692.68768,423.4132.269880-103.5986199,700.0073.34359.599,505.94105.6645.06462,785.49768,422.7432.270135-103.5986199,800.0083.34359.599,526.13203.4744.35462,883.30768,422.0432.270404-103.5986199,866.6290.00359.599,530.00269.9443.87462,949.77768,421.5632.270587-103.5986199,900.0090.00359.599,530.00303.3243.63462,983.15768,421.3232.270678-103.59861910,000.0090.00359.599,530.00403.3242.91463,083.15768,420.6032.27053-103.59861910,100.0090.00359.599,530.00503.3142.19463,183.14768,419.8832.271228-103.598619 | | | 359.59 | 9,089.22 | -287.55 | 47.89 | 462,392.28 | 768,425.58 | 32.269054 | -103.598618 |
| 9,300.0033.34359.599,271.92-208.7247.32462,471.11768,425.0132.269271-103.5986189,400.0043.34359.599,350.26-146.7746.87462,533.06768,424.5632.269441-103.5986189,500.0053.34359.599,416.65-72.1646.34462,607.67768,424.0232.269646-103.5986199,600.0063.34359.599,469.0712.8545.72462,692.68768,423.4132.269880-103.5986199,700.0073.34359.599,505.94105.6645.06462,785.49768,422.7432.270135-103.5986199,800.0083.34359.599,526.13203.4744.35462,883.30768,422.0432.270404-103.5986199,866.6290.00359.599,530.00269.9443.87462,949.77768,421.5632.270587-103.5986199,900.0090.00359.599,530.00303.3243.63462,983.15768,421.3232.270678-103.59861910,000.0090.00359.599,530.00403.3242.91463,083.15768,420.6032.27053-103.59861910,100.0090.00359.599,530.00503.3142.19463,183.14768,419.8832.271228-103.598619 | 9,200.00 | 23.34 | 359.59 | 9,184.02 | -256.12 | 47.66 | 462,423.71 | 768,425.35 | 32.269141 | -103.598618 |
| 9,400.0043.34359.599,350.26-146.7746.87462,533.06768,424.5632.269441-103.5986189,500.0053.34359.599,416.65-72.1646.34462,607.67768,424.0232.269646-103.5986199,600.0063.34359.599,469.0712.8545.72462,692.68768,423.4132.269880-103.5986199,700.0073.34359.599,505.94105.6645.06462,785.49768,422.7432.270135-103.5986199,800.0083.34359.599,526.13203.4744.35462,883.30768,422.0432.270404-103.5986199,866.6290.00359.599,530.00269.9443.87462,949.77768,421.5632.270587-103.5986199,900.0090.00359.599,530.00303.3243.63462,983.15768,421.3232.270678-103.59861910,000.0090.00359.599,530.00403.3242.91463,083.15768,420.6032.27053-103.59861910,100.0090.00359.599,530.00503.3142.19463,183.14768,419.8832.271228-103.598619 | | | 359.59 | | -208.72 | 47.32 | 462,471.11 | | 32.269271 | -103.598618 |
| 9,600.0063.34359.599,469.0712.8545.72462,692.68768,423.4132.269880-103.5986199,700.0073.34359.599,505.94105.6645.06462,785.49768,422.7432.270135-103.5986199,800.0083.34359.599,526.13203.4744.35462,883.30768,422.0432.270404-103.5986199,866.6290.00359.599,530.00269.9443.87462,949.77768,421.5632.270587-103.5986199,900.0090.00359.599,530.00303.3243.63462,983.15768,421.3232.270678-103.59861910,000.0090.00359.599,530.00403.3242.91463,083.15768,420.6032.270953-103.59861910,100.0090.00359.599,530.00503.3142.19463,183.14768,419.8832.271228-103.598619 | | | 359.59 | | | 46.87 | | | | |
| 9,700.0073.34359.599,505.94105.6645.06462,785.49768,422.7432.270135-103.5986199,800.0083.34359.599,526.13203.4744.35462,883.30768,422.0432.270404-103.5986199,866.6290.00359.599,530.00269.9443.87462,949.77768,421.5632.270587-103.5986199,900.0090.00359.599,530.00303.3243.63462,983.15768,421.3232.270678-103.59861910,000.0090.00359.599,530.00403.3242.91463,083.15768,420.6032.270953-103.59861910,100.0090.00359.599,530.00503.3142.19463,183.14768,419.8832.271228-103.598619 | 9,500.00 | 53.34 | 359.59 | 9,416.65 | -72.16 | 46.34 | 462,607.67 | 768,424.02 | 32.269646 | -103.598619 |
| 9,800.0083.34359.599,526.13203.4744.35462,883.30768,422.0432.270404-103.5986199,866.6290.00359.599,530.00269.9443.87462,949.77768,421.5632.270587-103.5986199,900.0090.00359.599,530.00303.3243.63462,983.15768,421.3232.270678-103.59861910,000.0090.00359.599,530.00403.3242.91463,083.15768,420.6032.270953-103.59861910,100.0090.00359.599,530.00503.3142.19463,183.14768,419.8832.271228-103.598619 | 9,600.00 | 63.34 | 359.59 | 9,469.07 | 12.85 | 45.72 | 462,692.68 | 768,423.41 | 32.269880 | -103.598619 |
| 9,866.6290.00359.599,530.00269.9443.87462,949.77768,421.5632.270587-103.5986199,900.0090.00359.599,530.00303.3243.63462,983.15768,421.3232.270678-103.59861910,000.0090.00359.599,530.00403.3242.91463,083.15768,420.6032.270953-103.59861910,100.0090.00359.599,530.00503.3142.19463,183.14768,419.8832.271228-103.598619 | 9,700.00 | 73.34 | 359.59 | 9,505.94 | 105.66 | 45.06 | 462,785.49 | 768,422.74 | 32.270135 | -103.598619 |
| 9,866.6290.00359.599,530.00269.9443.87462,949.77768,421.5632.270587-103.5986199,900.0090.00359.599,530.00303.3243.63462,983.15768,421.3232.270678-103.59861910,000.0090.00359.599,530.00403.3242.91463,083.15768,420.6032.270953-103.59861910,100.0090.00359.599,530.00503.3142.19463,183.14768,419.8832.271228-103.598619 | | | | | | | | | | |
| 10,000.0090.00359.599,530.00403.3242.91463,083.15768,420.6032.270953-103.59861910,100.0090.00359.599,530.00503.3142.19463,183.14768,419.8832.271228-103.598619 | 9,866.62 | 90.00 | 359.59 | 9,530.00 | 269.94 | 43.87 | 462,949.77 | 768,421.56 | 32.270587 | -103.598619 |
| 10,100.00 90.00 359.59 9,530.00 503.31 42.19 463,183.14 768,419.88 32.271228 -103.598619 | 9,900.00 | 90.00 | 359.59 | 9,530.00 | 303.32 | 43.63 | 462,983.15 | 768,421.32 | 32.270678 | -103.598619 |
| | 10,000.00 | 90.00 | 359.59 | 9,530.00 | 403.32 | 42.91 | 463,083.15 | 768,420.60 | 32.270953 | -103.598619 |
| 10,200.00 90.00 359.59 9,530.00 603.31 41.47 463.283.14 768.419.16 32.271503 -103.598619 | 10,100.00 | 90.00 | 359.59 | 9,530.00 | 503.31 | 42.19 | 463,183.14 | 768,419.88 | 32.271228 | -103.598619 |
| | 10,200.00 | 90.00 | 359.59 | 9,530.00 | 603.31 | 41.47 | 463,283.14 | 768,419.16 | 32.271503 | -103.598619 |

| Database: | EDM r5000.141_Prod US | Local Co-ordinate Reference: | Well Danger Noodle 29-20 Fed Com 2H |
|-----------|------------------------------------|------------------------------|-------------------------------------|
| Company: | WCDSC Permian NM | TVD Reference: | RKB @ 3708.60ft |
| Project: | Lea County (NAD83 New Mexico East) | MD Reference: | RKB @ 3708.60ft |
| Site: | Sec 29-T23S-R33E | North Reference: | Grid |
| Well: | Danger Noodle 29-20 Fed Com 2H | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Permit Plan 1 | | |

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Map Northing (usft) | Map Easting (usft) | Latitude | Longitude |
|---------------------------|--------------------|------------------|---------------------------|----------------------|---------------|---------------------------|--------------------------|-----------|-------------|
| | | | | | | . , | | | - |
| 10,300.00 | 90.00 | 359.59 | 9,530.00 | 703.31 | 40.75 | 463,383.14 | 768,418.44 | 32.271778 | -103.598619 |
| 10,400.00 | 90.00 | 359.59 | 9,530.00 | 803.31 | 40.03 | 463,483.14 | 768,417.72 | 32.272053 | -103.598620 |
| 10,500.00 | 90.00 | 359.59 | 9,530.00 | 903.30 | 39.31 | 463,583.13 | 768,417.00 | 32.272328 | -103.598620 |
| 10,600.00 | 90.00 | 359.59 | 9,530.00 | 1,003.30 | 38.59 | 463,683.13 | 768,416.28 | 32.272602 | -103.598620 |
| 10,700.00 | 90.00 | 359.59 | 9,530.00 | 1,103.30 | 37.87 | 463,783.13 | 768,415.56 | 32.272877 | -103.598620 |
| 10,800.00 | 90.00 | 359.59 | 9,530.00 | 1,203.30 | 37.15 | 463,883.12 | 768,414.84 | 32.273152 | -103.598620 |
| 10,900.00 | 90.00 | 359.59 | 9,530.00 | 1,303.29 | 36.43 | 463,983.12 | 768,414.12 | 32.273427 | -103.598620 |
| 11,000.00 | 90.00 | 359.59 | 9,530.00 | 1,403.29 | 35.71 | 464,083.12 | 768,413.40 | 32.273702 | -103.598620 |
| 11,100.00 | 90.00 | 359.59 | 9,530.00 | 1,503.29 | 34.99 | 464,183.12 | 768,412.68 | 32.273977 | -103.598620 |
| 11,200.00 | 90.00 | 359.59 | 9,530.00 | 1,603.29 | 34.27 | 464,283.11 | 768,411.95 | 32.274252 | -103.598621 |
| 11,300.00 | 90.00 | 359.59 | 9,530.00 | 1,703.28 | 33.55 | 464,383.11 | 768,411.23 | 32.274527 | -103.598621 |
| 11,400.00 | 90.00 | 359.59 | 9,530.00 | 1,803.28 | 32.83 | 464,483.11 | 768,410.51 | 32.274801 | -103.598621 |
| 11,500.00 | 90.00 | 359.59 | 9,530.00 | 1,903.28 | 32.11 | 464,583.10 | 768,409.79 | 32.275076 | -103.598621 |
| 11,600.00 | 90.00 | 359.59 | 9,530.00 | 2,003.28 | 31.39 | 464,683.10 | 768,409.07 | 32.275351 | -103.598621 |
| 11,700.00 | 90.00 | 359.59 | 9,530.00 | 2,103.27 | 30.67 | 464,783.10 | 768,408.35 | 32.275626 | -103.598621 |
| 11,800.00 | 90.00 | 359.59 | 9,530.00 | 2,203.27 | 29.95 | 464,883.10 | 768,407.63 | 32.275901 | -103.598621 |
| 11,900.00 | 90.00 | 359.59 | 9,530.00 | 2,303.27 | 29.23 | 464,983.09 | 768,406.91 | 32.276176 | -103.598621 |
| 12,000.00 | 90.00 | 359.59 | 9,530.00 | 2,403.26 | 28.50 | 465,083.09 | 768,406.19 | 32.276451 | -103.598621 |
| 12,100.00 | 90.00 | 359.59 | 9,530.00 | 2,503.26 | 27.78 | 465,183.09 | 768,405.47 | 32.276726 | -103.598622 |
| 12,200.00 | 90.00 | 359.59 | 9,530.00 | 2,603.26 | 27.06 | 465,283.08 | 768,404.75 | 32.277000 | -103.598622 |
| 12,300.00 | 90.00 | 359.59 | 9,530.00 | 2,703.26 | 26.34 | 465,383.08 | 768,404.03 | 32.277275 | -103.598622 |
| 12,400.00 | 90.00 | 359.59 | 9,530.00 | 2,803.25 | 25.62 | 465,483.08 | 768,403.31 | 32.277550 | -103.598622 |
| 12,500.00 | 90.00 | 359.59 | 9,530.00 | 2,903.25 | 24.90 | 465,583.08 | 768,402.59 | 32.277825 | -103.598622 |
| 12,600.00 | 90.00 | 359.59 | 9,530.00 | 3,003.25 | 24.18 | 465,683.07 | 768,401.87 | 32.278100 | -103.598622 |
| 12,700.00 | 90.00 | 359.59 | 9,530.00 | 3,103.25 | 23.46 | 465,783.07 | 768,401.15 | 32.278375 | -103.598622 |
| 12,800.00 | 90.00 | 359.59 | 9,530.00 | 3,203.24 | 22.74 | 465,883.07 | 768,400.43 | 32.278650 | -103.598622 |
| 12,900.00 | 90.00 | 359.59 | 9,530.00 | 3,303.24 | 22.02 | 465,983.07 | 768,399.71 | 32.278925 | -103.598622 |
| 13,000.00 | 90.00 | 359.59 | 9,530.00 | 3,403.24 | 21.30 | 466,083.06 | 768,398.99 | 32.279199 | -103.598623 |
| 13,100.00 | 90.00 | 359.59 | 9,530.00 | 3,503.24 | 20.58 | 466,183.06 | 768,398.27 | 32.279474 | -103.598623 |
| 13,200.00 | 90.00 | 359.59 | 9,530.00 | 3,603.23 | 19.86 | 466,283.06 | 768,397.55 | 32.279749 | -103.598623 |
| 13,300.00 | 90.00 | 359.59 | 9,530.00 | 3,703.23 | 19.14 | 466,383.05 | 768,396.83 | 32.280024 | -103.598623 |
| 13,400.00 | 90.00 | 359.59 | 9,530.00 | 3,803.23 | 18.42 | 466,483.05 | 768,396.11 | 32.280299 | -103.598623 |
| 13,500.00 | 90.00 | 359.59 | 9,530.00 | 3,903.23 | 17.70 | 466,583.05 | 768,395.39 | 32.280574 | -103.598623 |
| 13,600.00 | 90.00 | 359.59 | 9,530.00 | 4,003.22 | 16.98 | 466,683.05 | 768,394.67 | 32.280849 | -103.598623 |
| 13,700.00 | 90.00 | 359.59 | 9,530.00 | 4,103.22 | 16.26 | 466,783.04 | 768,393.95 | 32.281123 | -103.598623 |
| 13,800.00 | 90.00 | 359.59 | 9,530.00 | 4,203.22 | 15.54 | 466,883.04 | 768,393.23 | 32.281398 | -103.598623 |
| 13,900.00 | 90.00 | 359.59 | 9,530.00 | 4,303.22 | 14.82 | 466,983.04 | 768,392.51 | 32.281673 | -103.598624 |
| 14,000.00 | 90.00 | 359.59 | 9,530.00 | 4,403.21 | 14.10 | 467,083.03 | 768,391.78 | 32.281948 | -103.598624 |
| 14,100.00 | 90.00 | 359.59 | 9,530.00 | 4,503.21 | 13.38 | 467,183.03 | 768,391.06 | 32.282223 | -103.598624 |
| 14,200.00 | 90.00 | 359.59 | 9,530.00 | 4,603.21 | 12.66 | 467,283.03 | 768,390.34 | 32.282498 | -103.598624 |
| 14,300.00 | 90.00 | 359.59 | 9,530.00 | 4,703.21 | 11.94 | 467,383.03 | 768,389.62 | 32.282773 | -103.598624 |
| 14,375.00 | 90.00 | 359.59 | 9,530.00 | 4,778.20 | 11.40 | 467,458.02 | 768,389.08 | 32.282979 | -103.598624 |
| | ection @ 1437 | | | ., | | , | , | | |
| 14,400.00 | 90.00 | 359.59 | 9,530.00 | 4,803.20 | 11.22 | 467,483.02 | 768,388.90 | 32.283048 | -103.598624 |
| 14,500.00 | 90.00 | 359.59 | 9,530.00 | 4,903.20 | 10.50 | 467,583.02 | 768,388.18 | 32.283322 | -103.598624 |
| 14,600.00 | 90.00 | 359.59 | 9,530.00 | 5,003.20 | 9.78 | 467,683.02 | 768,387.46 | 32.283597 | -103.598624 |
| 14,700.00 | 90.00 | 359.59 | 9,530.00 | 5,103.19 | 9.06 | 467,783.02 | 768,386.74 | 32.283872 | -103.598625 |
| 14,800.00 | 90.00 | 359.59 | 9,530.00 9,530.00 | 5,203.19 | 9.00 8.34 | 467,883.01 | 768,386.02 | 32.284147 | -103.598625 |
| 14,900.00 | 90.00 | 359.59 | 9,530.00 9,530.00 | 5,303.19 | 7.61 | 467,983.01 | 768,385.30 | 32.284422 | -103.598625 |
| 15,000.00 | 90.00 | 359.59 | 9,530.00 9,530.00 | 5,403.19 5,403.19 | 6.89 | 468,083.01 | 768,384.58 | 32.284697 | -103.598625 |
| | | 359.59 359.59 | | | | | 768,383.86 | | -103.598625 |
| 15,100.00 | 90.00 | | 9,530.00 | 5,503.18 5,603,18 | 6.17 5.45 | 468,183.00 | 768,383.14 | 32.284972 | |
| 15,200.00 | 90.00 | 359.59 | 9,530.00 | 5,603.18 | 5.45 | 468,283.00 | | 32.285247 | -103.598625 |
| 15,300.00 | 90.00 | 359.59 | 9,530.00 | 5,703.18 | 4.73 | 468,383.00 | 768,382.42 | 32.285521 | -103.598625 |
| 15,400.00 | 90.00 | 359.59 | 9,530.00 | 5,803.18 | 4.01 | 468,483.00 | 768,381.70 | 32.285796 | -103.598625 |

| Database: | EDM r5000.141_Prod US | Local Co-ordinate Reference: | Well Danger Noodle 29-20 Fed Com 2H |
|-----------|------------------------------------|------------------------------|-------------------------------------|
| Company: | WCDSC Permian NM | TVD Reference: | RKB @ 3708.60ft |
| Project: | Lea County (NAD83 New Mexico East) | MD Reference: | RKB @ 3708.60ft |
| Site: | Sec 29-T23S-R33E | North Reference: | Grid |
| Well: | Danger Noodle 29-20 Fed Com 2H | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Permit Plan 1 | | |

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Map Northing (usft) | Map Easting (usft) | Latitude | Longitude |
|---------------------------|--------------------|----------------|---------------------------|---------------|---------------|---------------------------|--------------------------|-----------|-------------|
| 15,500.00 | 90.00 | 359.59 | 9,530.00 | 5,903.17 | 3.29 | 468,582.99 | 768,380.98 | 32.286071 | -103.598625 |
| 15,600.00 | 90.00 | 359.59 | 9,530.00 | 6,003.17 | 2.57 | 468,682.99 | 768,380.26 | 32.286346 | -103.598626 |
| 15,700.00 | 90.00 | 359.59 | 9,530.00 | 6,103.17 | 1.85 | 468,782.99 | 768,379.54 | 32.286621 | -103.598626 |
| 15,800.00 | 90.00 | 359.59 | 9,530.00 | 6,203.17 | 1.13 | 468,882.98 | 768,378.82 | 32.286896 | -103.598626 |
| 15,900.00 | 90.00 | 359.59 | 9,530.00 | 6,303.16 | 0.41 | 468,982.98 | 768,378.10 | 32.287171 | -103.598626 |
| 16,000.00 | 90.00 | 359.59 | 9,530.00 | 6,403.16 | -0.31 | 469,082.98 | 768,377.38 | 32.287446 | -103.598626 |
| 16,100.00 | 90.00 | 359.59 | 9,530.00 | 6,503.16 | -1.03 | 469,182.98 | 768,376.66 | 32.287720 | -103.598626 |
| 16,200.00 | 90.00 | 359.59 | 9,530.00 | 6,603.16 | -1.75 | 469,282.97 | 768,375.94 | 32.287995 | -103.598626 |
| 16,300.00 | 90.00 | 359.59 | 9,530.00 | 6,703.15 | -2.47 | 469,382.97 | 768,375.22 | 32.288270 | -103.598626 |
| 16,400.00 | 90.00 | 359.59 | 9,530.00 | 6,803.15 | -3.19 | 469,482.97 | 768,374.50 | 32.288545 | -103.598626 |
| 16,500.00 | 90.00 | 359.59 | 9,530.00 | 6,903.15 | -3.91 | 469,582.96 | 768,373.78 | 32.288820 | -103.598627 |
| 16,600.00 | 90.00 | 359.59 | 9,530.00 | 7,003.15 | -4.63 | 469,682.96 | 768,373.06 | 32.289095 | -103.598627 |
| 16,700.00 | 90.00 | 359.59 | 9,530.00 | 7,103.14 | -5.35 | 469,782.96 | 768,372.34 | 32.289370 | -103.598627 |
| 16,800.00 | 90.00 | 359.59 | 9,530.00 | 7,203.14 | -6.07 | 469,882.96 | 768,371.62 | 32.289644 | -103.598627 |
| 16,900.00 | 90.00 | 359.59 | 9,530.00 | 7,303.14 | -6.79 | 469,982.95 | 768,370.89 | 32.289919 | -103.598627 |
| 17,000.00 | 90.00 | 359.59 | 9,530.00 | 7,403.14 | -7.51 | 470,082.95 | 768,370.17 | 32.290194 | -103.598627 |
| 17,016.00 | 90.00 | 359.59 | 9,530.00 | 7,419.13 | -7.63 | 470,098.95 | 768,370.06 | 32.290238 | -103.598627 |
| | | | I' FSL, 1320' F | | | -, | , | | |
| 17,100.00 | 90.00 | 359.59 | 9,530.00 | 7,503.13 | -8.23 | 470,182.95 | 768,369.45 | 32.290469 | -103.598627 |
| 17,200.00 | 90.00 | 359.59 | 9,530.00 | 7,603.13 | -8.95 | 470,282.95 | 768,368.73 | 32.290744 | -103.598627 |
| 17,300.00 | 90.00 | 359.59 | 9,530.00 | 7,703.13 | -9.67 | 470,382.94 | 768,368.01 | 32.291019 | -103.598627 |
| 17,400.00 | 90.00 | 359.59 | 9,530.00 | 7,803.12 | -10.39 | 470,482.94 | 768,367.29 | 32.291294 | -103.598628 |
| 17,500.00 | 90.00 | 359.59 | 9,530.00 | 7,903.12 | -11.11 | 470,582.94 | 768,366.57 | 32.291569 | -103.598628 |
| 17,600.00 | 90.00 | 359.59 | 9,530.00 | 8,003.12 | -11.83 | 470,682.93 | 768,365.85 | 32.291843 | -103.598628 |
| 17,700.00 | 90.00 | 359.59 | 9,530.00 | 8,103.12 | -12.56 | 470,782.93 | 768,365.13 | 32.292118 | -103.598628 |
| 17,800.00 | 90.00 | 359.59 | 9,530.00 | 8,203.11 | -13.28 | 470,882.93 | 768,364.41 | 32.292393 | -103.598628 |
| 17,900.00 | 90.00 | 359.59 | 9,530.00 | 8,303.11 | -14.00 | 470,982.93 | 768,363.69 | 32.292668 | -103.598628 |
| 18,000.00 | 90.00 | 359.59 | 9,530.00 | 8,403.11 | -14.72 | 471,082.92 | 768,362.97 | 32.292943 | -103.598628 |
| 18,100.00 | 90.00 | 359.59 | 9,530.00 | 8,503.11 | -15.44 | 471,182.92 | 768,362.25 | 32.293218 | -103.598628 |
| 18,200.00 | 90.00 | 359.59 | 9,530.00 | 8,603.10 | -16.16 | 471,282.92 | 768,361.53 | 32.293493 | -103.598629 |
| 18,300.00 | 90.00 | 359.59 | 9,530.00 | 8,703.10 | -16.88 | 471,382.91 | 768,360.81 | 32.293768 | -103.598629 |
| 18,400.00 | 90.00 | 359.59 | 9,530.00 | 8,803.10 | -17.60 | 471,482.91 | 768,360.09 | 32.294042 | -103.598629 |
| 18,500.00 | 90.00 | 359.59 | 9,530.00 | 8,903.10 | -18.32 | 471,582.91 | 768,359.37 | 32.294317 | -103.598629 |
| 18,600.00 | 90.00 | 359.59 | 9,530.00 | 9,003.09 | -19.04 | 471,682.91 | 768,358.65 | 32.294592 | -103.598629 |
| 18,700.00 | 90.00 | 359.59 | 9,530.00 | 9,103.09 | -19.76 | 471,782.90 | 768,357.93 | 32.294867 | -103.598629 |
| 18,800.00 | 90.00 | 359.59 | 9,530.00 | 9,203.09 | -20.48 | 471,882.90 | 768,357.21 | 32.295142 | -103.598629 |
| 18,900.00 | 90.00 | 359.59 | 9,530.00 | 9,303.09 | -21.20 | 471,982.90 | 768,356.49 | 32.295417 | -103.598629 |
| 19,000.00 | 90.00 | 359.59 | 9,530.00 | 9,403.08 | -21.92 | 472,082.89 | 768,355.77 | 32.295692 | -103.598629 |
| 19,100.00 | 90.00 | 359.59 | 9,530.00 | 9,503.08 | -22.64 | 472,182.89 | 768,355.05 | 32.295967 | -103.598630 |
| 19,200.00 | 90.00 | 359.59 | 9,530.00 | 9,603.08 | -23.36 | 472,282.89 | 768,354.33 | 32.296241 | -103.598630 |
| 19,300.00 | 90.00 | 359.59 | 9,530.00 | 9,703.08 | -24.08 | 472,382.89 | 768,353.61 | 32.296516 | -103.598630 |
| 19,400.00 | 90.00 | 359.59 | 9,530.00 | 9,803.07 | -24.80 | 472,482.88 | 768,352.89 | 32.296791 | -103.598630 |
| 19,500.00 | 90.00 | 359.59 | 9,530.00 | 9,903.07 | -25.52 | 472,582.88 | 768,352.17 | 32.297066 | -103.598630 |
| 19,557.23 | 90.00 | 359.59 | 9,530.00 | 9,960.30 | -25.93 | 472,640.11 | 768,351.75 | 32.297223 | -103.598630 |
| LTP @ 19 | 557' MD, 100 | ' FNL, 1320' F | =WL | | | | | | |
| 19,600.00 | 90.00 | 359.59 | 9,530.00 | 10,003.07 | -26.24 | 472,682.88 | 768,351.45 | 32.297341 | -103.598630 |
| 19,637.22 | 90.00 | 359.59 | 9,530.00 | 10,040.29 | -26.51 | 472,720.10 | 768,351.18 | 32.297443 | -103.598630 |
| | ' FNL, 1320' I | FWL | | | | | | | |
| 19,637.23 | 90.00 | 359.59 | 9,530.00 | 10,040.30 | -26.51 | 472,720.11 | 768,351.18 | 32.297443 | -103.598630 |

| Database: Company: Project: Site: Well: Wellbore: Design: | EDM r5000.14 WCDSC Perm Lea County (N Sec 29-T23S- Danger Nood Wellbore #1 Permit Plan 1 | nian NM IAD83 New I R33E | |) | TVD Refere MD Referen North Refer | ice: | Well Dang RKB @ 37 RKB @ 37 Grid Minimum (| 708.60ft | Com 2H |
|---|--|--------------------------------|----------------------|---------------------------|---|-------------------------|--|-----------|-------------|
| Design Targets Target Name - hit/miss target - Shape | Dip Angle (°) | Dip Dir. (°) | TVD (ft) | +N/-S (ft) | +E/-W (ft) | Northing (usft) | Easting (usft) | Latitude | Longitude |
| PBHL - Danger Noodle - plan misses targe - Point | | 0.00 0.00ft at 196 | 0.00 37.23ft MD (| 10,040.30 9530.00 TVD, | -26.51 10040.30 N, | 472,720.11 -26.51 E) | 768,351.18 | 32.297443 | -103.598630 |

Plan Annotations Measured Vertical Local Coordinates Depth Depth +N/-S +E/-W (ft) (ft) Comment (ft) (ft) 8,966.62 14,375.00 8,957.04 9,530.00 KOP & FTP @ 8967' MD, 200' FSL, 1320' FWL Cross section @ 14375' MD, 0' FSL, 1320' FWL -303.00 48.00 4,778.20 11.40 Cross #1041204 @ 17016' MD, 2641' FSL, 1320' FWL LTP @ 19557' MD, 100' FNL, 1320' FWL PBHL; 20' FNL, 1320' FWL 17,016.00 9,530.00 7,419.13 -7.63 -25.93 19,557.23 9,530.00 9,960.30 19,637.22 9,530.00 10,040.29 -26.51

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

| OPERATOR'S NAME: | Devon Energy Production Company LP |
|-------------------------|------------------------------------|
| LEASE NO.: | NMNM107395 |
| LOCATION: | Section 29, T.23 S., R.33 E., NMPM |
| COUNTY: | Lea County, New Mexico |

| WELL NAME & NO.: | Danger Noodle 29-20 Fed Com 1H |
|----------------------------|--------------------------------|
| SURFACE HOLE FOOTAGE: | 503'/S & 1242'/W |
| BOTTOM HOLE FOOTAGE | 20'/N & 330'/W |

| WELL NAME & NO.: | Danger Noodle 29-20 Fed Com 2H |
|----------------------------|--------------------------------|
| SURFACE HOLE FOOTAGE: | 503'/S & 1272'/W |
| BOTTOM HOLE FOOTAGE | 20'/N & 1320'/W |

| WELL NAME & NO.: | Danger Noodle 29-20 Fed Com 3H |
|----------------------------|--------------------------------|
| SURFACE HOLE FOOTAGE: | 503'/S & 1302'/W |
| BOTTOM HOLE FOOTAGE | 20'/N & 2310'/W |

COA

| H2S | 🖸 Yes | C No | |
|----------------------|------------------|----------------|------------------|
| Potash | 🖸 None | C Secretary | C R-111-P |
| Cave/Karst Potential | C Low | C Medium | 🖸 High |
| Cave/Karst Potential | Critical | | |
| Variance | I None | E Flex Hose | C Other |
| Wellhead | Conventional | 🖸 Multibowl | 🖸 Both |
| Other | □4 String Area | Capitan Reef | □ WIPP |
| Other | Fluid Filled | Cement Squeeze | Pilot Hole |
| Special Requirements | □ Water Disposal | COM | 🗖 Unit |

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated 500 feet prior to drilling into the **Cruz Dw** formation. As a result, the Hydrogen Sulfide area must meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

B. CASING

Primary Casing Design:

- 1. The **13-3/8** inch surface casing shall be set at approximately **1325 feet** (a minimum of **25 feet** (Lea County) into the Rustler Anhydrite and above the salt) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of <u>8</u> <u>hours</u> or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.

Intermediate casing must be kept fluid filled to meet BLM minimum collapse requirement.

- 2. The minimum required fill of cement behind the **9-5/8** inch intermediate casing shall be set at approximately **5120 feet** is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above. Cement excess is less than 25%, more cement might be required.

Operator has proposed to pump down 13-3/8" X 9-5/8" annulus. <u>Operator must run</u> a CBL from TD of the 9-5/8" casing to surface. Submit results to BLM.

- 3. The minimum required fill of cement behind the **5-1/2** inch production casing is:
 - Cement should tie-back at least 200 feet into previous casing string. Operator shall provide method of verification.
 Cement excess is less than 25%, more cement might be required.

C. PRESSURE CONTROL

- 1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'
- 2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **3000** (**3M**) psi.
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
 - e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. <u>When the Communitization Agreement number is known, it shall also be on the sign.</u>

GENERAL REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)
 - Eddy County Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822
 - Lea County
 Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 393-3612
- 1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
- 3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

- 1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
- <u>Wait on cement (WOC) for Potash Areas:</u> After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least <u>24 hours</u>. WOC time will be recorded in the driller's log. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 3. <u>Wait on cement (WOC) for Water Basin:</u> After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least <u>8 hours</u>. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
- 5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
- 6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
- 7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
- 8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.
- B. PRESSURE CONTROL

Page 5 of 8

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
- 2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
- 3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
- 4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.
 - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not

Page 6 of 8

hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).

- b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time, except the casing pressure test can be initiated immediately after bumping the plug (only applies to single stage cement jobs).
- c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- e. The results of the test shall be reported to the appropriate BLM office.
- f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.
- C. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

Page 8 of 8



Devon Energy Center 333 West Sheridan Avenue Oklahoma City, Oklahoma 73102-5015

Hydrogen Sulfide (H₂S) Contingency Plan

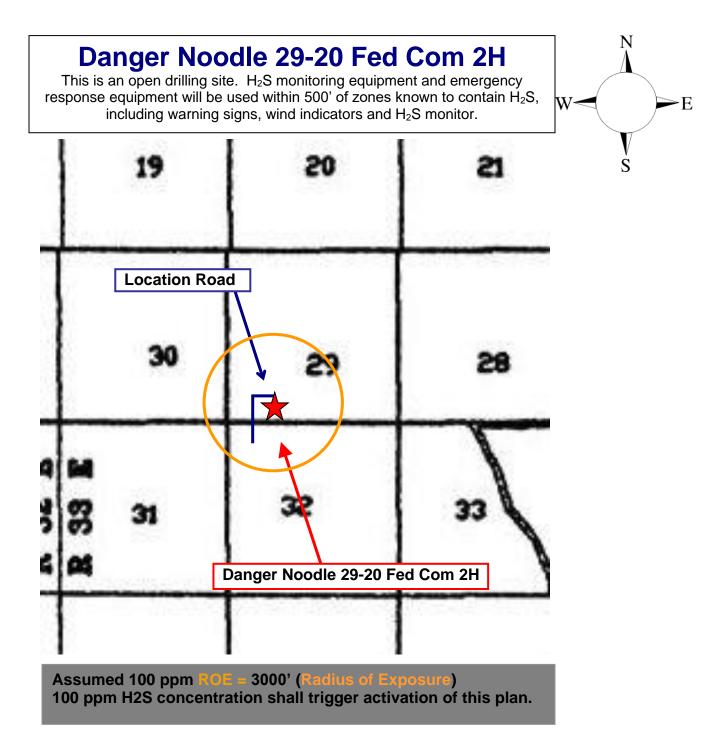
For

Danger Noodle 29-20 Fed Com 2H

Sec-29 T-23S R-33E 503 FSL & 1272' FWL LAT. = 32.269845' N (NAD83) LONG = 103.598767' W

Lea County NM

Devon Energy Corp. Cont Plan. Page 1



Escape

Crews shall escape upwind of escaping gas in the event of an emergency release of gas. Escape can be facilitated from the location entrance road. Crews should then block the entrance to the location from the lease road so as not to allow anyone traversing into a hazardous area. The blockade should be at a safe distance outside of the ROE. <u>There are no homes or buildings in or near the ROE</u>.

Assumed 100 ppm ROE = 3000'

100 ppm H₂S concentration shall trigger activation of this plan.

Emergency Procedures

In the event of a release of gas containing H₂S, the first responder(s) must

- Isolate the area and prevent entry by other persons into the 100 ppm ROE.
- Evacuate any public places encompassed by the 100 ppm ROE.
- Be equipped with H₂S monitors and air packs in order to control the release.
- Use the "buddy system" to ensure no injuries occur during the response
- Take precautions to avoid personal injury during this operation.
- Contact operator and/or local officials to aid in operation. See list of phone numbers attached.
- Have received training in the
 - Detection of H_2S , and
 - Measures for protection against the gas,
 - Equipment used for protection and emergency response.

Ignition of Gas Source

Should control of the well be considered lost and ignition considered, take care to protect against exposure to Sulfur Dioxide (SO₂). Intentional ignition must be coordinated with the NMOCD and local officials. Additionally, the NM State Police may become involved. NM State Police shall be the Incident Command on scene of any major release. Take care to protect downwind whenever there is an ignition of the gas

| Common | Chemical | Specific | Threshold | Hazardous | Lethal |
|---------------------|-----------------|------------------|-----------|------------|---------------|
| Name | Formula | Gravity | Limit | Limit | Concentration |
| Hydrogen Sulfide | H₂S | 1.189 Air = 1 | 10 ppm | 100 ppm/hr | 600 ppm |
| Sulfur Dioxide | SO ₂ | 2.21 Air = 1 | 2 ppm | N/A | 1000 ppm |

Characteristics of H₂S and SO₂

Contacting Authorities

Devon Energy Corp. personnel must liaison with local and state agencies to ensure a proper response to a major release. Additionally, the OCD must be notified of the release as soon as possible but no later than 4 hours. Agencies will ask for information such as type and volume of release, wind direction, location of release, etc. Be prepared with all information available. The following call list of essential and potential responders has been prepared for use during a release. Devon Energy Corp. Company response must be in coordination with the State of New Mexico's 'Hazardous Materials Emergency Response Plan' (HMER)

Hydrogen Sulfide Drilling Operation Plan

I. HYDROGEN SULFIDE (H₂S) TRAINING

All personnel, whether regularly assigned, contracted, or employed on an unscheduled basis, will receive training from a qualified instructor in the following areas prior to commencing drilling operations on this well:

- 1. The hazards and characteristics of hydrogen sulfide (H₂S)
- 2. The proper use and maintenance of personal protective equipment and life support systems.
- 3. The proper use of H₂S detectors, alarms, warning systems, briefing areas, evacuation procedures, and prevailing winds.
- 4. The proper techniques for first aid and rescue procedures.

In addition, supervisory personnel will be trained in the following areas:

- 1. The effects of H₂S metal components. If high tensile tubulars are to be used, personnel will be trained in their special maintenance requirements.
- 2. Corrective action and shut-in procedures when drilling or reworking a well and blowout prevention and well control procedures.
- 3. The contents and requirements of the H₂S Drilling Operations Plan and Public Protection Plan.

There will be an initial training session just prior to encountering a known or probable H_2S zone (within 3 days or 500 feet) and weekly H_2S and well control drills for all personnel in each crew. The initial training session shall include a review of the site specific H_2S Drilling Operations Plan and the Public Protection Plan.

II. HYDROGEN SULFIDE TRAINING

Note: All H_2S safety equipment and systems will be installed, tested, and operational when drilling reaches a depth of 500 feet above, or three days prior to penetrating the first zone containing or reasonably expected to contain H_2S .

1. Well Control Equipment

- A. Flare line
- B. Choke manifold Remotely Operated
- C. Blind rams and pipe rams to accommodate all pipe sizes with properly sized closing unit
- D. Auxiliary equipment may include if applicable: annular preventer and rotating head.
- E. Mud/Gas Separator

2. Protective equipment for essential personnel:

30-minute SCBA units located at briefing areas, as indicated on well site diagram, with escape units available in the top doghouse. As it may be difficult to communicate audibly while wearing these units, hand signals shall be utilized.

3. H₂S detection and monitoring equipment:

Portable H₂S monitors positioned on location for best coverage and response. These units have warning lights which activate when H₂S levels reach 10 ppm and audible sirens which activate at 15 ppm. Sensor locations:

- Bell nipple
 Possum Belly/Shale shaker
- Rig floor
 Choke manifold
- Cellar

Visual warning systems:

- A. Wind direction indicators as shown on well site diagram
- B. Caution/ Danger signs shall be posted on roads providing direct access to locations. Signs will be painted a high visibility yellow with black lettering of sufficient size to be reasonable distance from the immediate location. Bilingual signs will be used when appropriate.

4. Mud program:

The mud program has been designed to minimize the volume of H₂S circulated to surface. Proper mud weight, safe drilling practices and the use of H₂S scavengers will minimize hazards when penetrating H₂S bearing zones.

5. Metallurgy:

- A. All drill strings, casings, tubing, wellhead, blowout preventer, drilling spool, kill lines, choke manifold lines, and valves shall be H₂S trim.
- B. All elastomers used for packing and seals shall be H₂S trim.

6. Communication:

- A. Company personnel have/use cellular telephones in the field.
- B. Land line (telephone) communications at Office

7. Well testing:

- A. Drill stem testing will be performed with a minimum number of personnel in the immediate vicinity, which are necessary to safety and adequately conduct the test. The drill stem testing will be conducted during daylight hours and formation fluids will not be flowed to the surface. All drill-stem-testing operations conducted in an H₂S environment will use the closed chamber method of testing.
- B. There will be no drill stem testing.

Devon Energy Corp. Company Call List

Drilling Supervisor – Basin – Mark Kramer

405-823-4796

EHS Professional – Laura Wright

405-439-8129

Agency Call List Lea Hobbs County Lea County Communication Authority 393-3981 (575) State Police 392-5588 City Police 397-9265 Sheriff's Office 393-2515 Ambulance 911 Fire Department 397-9308 LEPC (Local Emergency Planning Committee) 393-2870 NMOCD 393-6161 US Bureau of Land Management 393-3612 Eddy Carlsbad County State Police 885-3137 (575) **City Police** 885-2111 Sheriff's Office 887-7551 Ambulance 911 Fire Department 885-3125 LEPC (Local Emergency Planning Committee) 887-3798 US Bureau of Land Management 887-6544 NM Emergency Response Commission (Santa Fe) (505) 476-9600 24 HR (505) 827-9126 National Emergency Response Center (800) 424-8802 National Pollution Control Center: Direct (703) 872-6000 For Oil Spills (800) 280-7118 **Emergency Services** Wild Well Control (281) 784-4700 Cudd Pressure Control (915) 699-(915) 563-3356 0139 Halliburton (575) 746-2757 B. J. Services (575) 746-3569 Give Native Air – Emergency Helicopter – Hobbs (NM and TX) (800)642-7828 GPS Flight For Life - Lubbock, TX (806) 743-9911 position: Aerocare - Lubbock, TX (806) 747-8923 Med Flight Air Amb - Albuquerque, NM (575) 842-4433 Lifeguard Air Med Svc. Albuquerque, NM (800) 222-1222 Poison Control (24/7) (575) 272-3115 Oil & Gas Pipeline 24 Hour Service (800) 364-4366 NOAA - Website - www.nhc.noaa.gov

Prepared in conjunction with

Dave Small



