Form 3160-5
(June 2019)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2021

**SUNDRY NOTICES AND REPORTS ON WELLS**

***Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.***

***SUBMIT IN TRIPLICATE*** *- Other instructions on page 2*

5. Lease Serial No.

6. If Indian, Allottee or Tribe Name

7. If Unit of CA/Agreement, Name and/or No.

1. Type of Well
☐ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.

2. Name of Operator

9. API Well No.

3a. Address

3b. Phone No. *(include area code)*

10. Field and Pool or Exploratory Area

4. Location of Well *(Footage, Sec., T.,R.,M., or Survey Description)*

11. Country or Parish, State

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

| TYPE OF SUBMISSION | TYPE OF ACTION | | | |
|---|---|---|---|---|
| ☐ Notice of Intent | ☐ Acidize | ☐ Deepen | ☐ Production (Start/Resume) | ☐ Water Shut-Off |
| | ☐ Alter Casing | ☐ Hydraulic Fracturing | ☐ Reclamation | ☐ Well Integrity |
| ☐ Subsequent Report | ☐ Casing Repair | ☐ New Construction | ☐ Recomplete | ☐ Other |
| | ☐ Change Plans | ☐ Plug and Abandon | ☐ Temporarily Abandon | |
| ☐ Final Abandonment Notice | ☐ Convert to Injection | ☐ Plug Back | ☐ Water Disposal | |

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be perfonned or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has detennined that the site is ready for final inspection.)

14. I hereby certify that the foregoing is true and correct. Name *(Printed/Typed)*

Title

Signature

Date

**THE SPACE FOR FEDERAL OR STATE OFICE USE**

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C Section 1001 and Title 43 U.S.C Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

## GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area or regional procedures and practices, are either shown below, will be issued by or may be obtained from the local Federal office.

## SPECIFIC INSTRUCTIONS

*Item 4* - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

*Item 13:* Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. If the proposal will involve **hydraulic fracturing operations**, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

## NOTICES

The privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.
AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.
PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c)and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.
ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.
EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:
The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.
Response to this request is mandatory.
The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

**BURDEN HOURS STATEMENT:** Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect ofthis form to U.S. Department ofthe Interior, Bureau ofLand Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

## Additional Information

### Location of Well

0. SHL: NESW / 2489 FSL / 340 FEL / TWSP: 19S / RANGE: 28E / SECTION: 34 / LAT: 32.6168592 / LONG: -104.1572166 ( TVD: 0 feet, MD: 0 feet )

PPP: SESE / 660 FSL / 100 FEL / TWSP: 19S / RANGE: 28E / SECTION: 34 / LAT: 32.6118327 / LONG: -104.1566244 ( TVD: 6459 feet, MD: 6809 feet )

PPP: SWSE / 660 FSL / 320 FEL / TWSP: 19S / RANGE: 28E / SECTION: 34 / LAT: 32.6118269 / LONG: -104.1583668 ( TVD: 6582 feet, MD: 7254 feet )

PPP: SESW / 660 FSL / 320 FEL / TWSP: 19S / RANGE: 28E / SECTION: 34 / LAT: 32.6118269 / LONG: -104.1583668 ( TVD: 6582 feet, MD: 7254 feet )

BHL: SWSW / 660 FSL / 25 FWL / TWSP: 19S / RANGE: 28E / SECTION: 33 / LAT: 32.6117154 / LONG: -104.1906551 ( TVD: 5784 feet, MD: 17224 feet )

# PECOS DISTRICT
# DRILLING CONDITIONS OF APPROVAL

| | |
|---|---|
| **OPERATOR'S NAME:** | Colgate |
| **LEASE NO.:** | **NMNM0473362** |
| **LOCATION:** | Section 34, T.19 S, R.28 E., NMPM |
| **COUNTY:** | Eddy County, New Mexico |
| **WELL NAME & NO.:** | Dawson 34 Fed Com 204H |
| **SURFACE HOLE FOOTAGE:** | 2489'/S & 340'/E |
| **BOTTOM HOLE FOOTAGE:** | 1068'/S & 25'/W |

*Previously known as **Dawson 34 Fed Com 204H**. Changes approved through engineering via **Sundry _2741849_** on _10-3-2023_. Any previous COAs not addressed within the updated COAs still apply.*

COA

| | | | | |
|---|---|---|---|---|
| **$H_2S$** | ○ Yes | ◉ No | | |
| **Potash / WIPP** | ◉ None | ○ Secretary | ○ R-111-P | ☐ WIPP |
| **Cave / Karst** | ○ Low | ○ Medium | ◉ High | ○ Critical |
| **Wellhead** | ○ Conventional | ◉ Multibowl | ○ Both | ○ Diverter |
| **Cementing** | ☐ Primary Squeeze | ☐ Cont. Squeeze | ☐ EchoMeter | ☐ DV Tool |
| **Special Req** | ☐ Break Testing | ☐ Water Disposal | ☑ COM | ☐ Unit |
| **Variance** | ☑ Flex Hose | ☐ Casing Clearance | ☐ Pilot Hole | ☐ Capitan Reef |
| **Variance** | ☐ Four-String | ☑ Offline Cementing | ☐ Fluid-Filled | ☐ Open Annulus |
| ☐ **Batch APD / Sundry** | | | | |

## A. HYDROGEN SULFIDE

Hydrogen Sulfide (H2S) monitors shall be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area must meet all requirements from **43 CFR 3176**, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

## B. CASING

1. The **13-3/8** inch surface casing shall be set at approximately **340** feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite, above the salt, and below usable fresh water) 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 **8 hours** 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.

2. The minimum required fill of cement behind the **9-5/8** inch intermediate casing is:
   - Cement to surface. If cement does not circulate see B.1.a, c-d above.

**Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst.**

❖ In High Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.

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. **Excess calculates to 7%. Additional cement maybe 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 casing shoe shall be **5000 (5M)** psi.

Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.

a. 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.
b. Manufacturer representative shall install the test plug for the initial BOP test.
c. 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.
d. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172 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.
- The operator will submit an as-drilled survey well plat of the well completion, but are not limited to, those specified in 43 CFR 3171 and 3172.
- 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. When the Communitization Agreement number is known, it shall also be on the sign.

**Offline Cementing**

Contact the BLM prior to the commencement of any offline cementing procedure.

# 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
Email **or** call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, **BLM_NM_CFO_DrillingNotifications@BLM.GOV**
(575) 361-2822

☒ Lea County
Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240,
(575) 689-5981

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 **43 CFR part 3170 Subpart 3172** 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.

2. Wait on cement (WOC) for Potash Areas: 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 24 hours. 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. Wait on cement (WOC) for Water Basin: 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 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity 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

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in **43 CFR part 3170 Subpart 3172** and **API STD 53 Sec. 5.3**.

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 **43 CFR part 3170 Subpart 3172** 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 cement), whichever is greater. However, if the float does not 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 cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)

    c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR part 3170 Subpart 3172** 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 **43 CFR part 3170 Subpart 3172**.

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.

**ZS 10/3/2023**

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

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

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

☐ AMENDED REPORT

# WELL LOCATION AND ACREAGE DEDICATION PLAT

| 1 API Number | 2 Pool Code | 3 Pool Name |
|---|---|---|
| 30-015-49005 | [87760] | WINCHESTER;WOLFCAMP (GAS) |

| 4 Property Code | 5 Property Name | 6 Well Number |
|---|---|---|
| 329759 | DAWSON 34 FED COM | 204H |

| 7 OGRID No. | 8 Operator Name | 9 Elevation |
|---|---|---|
| 372165 | PERMIAN RESOURCES OPERATING, LLC | 3308.8' |

## 10 Surface Location

| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---|---|---|---|---|---|---|---|---|---|
| I | 34 | 19-S | 28-E | | 2489' | SOUTH | 340' | EAST | EDDY |

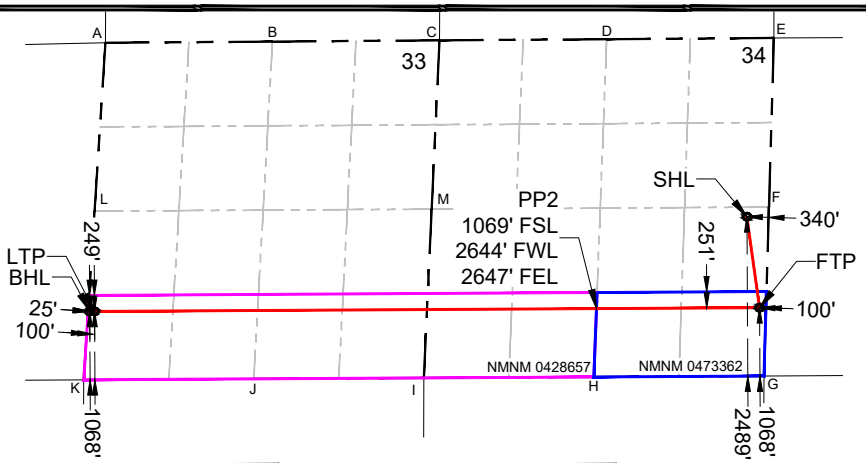
## 11 Bottom Hole Location If Different From Surface

| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---|---|---|---|---|---|---|---|---|---|
| M | 33 | 19-S | 28-E | | 1068' | SOUTH | 25' | WEST | EDDY |

| 12 Dedicated Acres | 13 Joint or Infill | 14 Consolidation Code | 15 Order No. |
|---|---|---|---|
| 320 | | | |

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

16




SURFACE HOLE LOCATION (SHL)
NEW MEXICO EAST - NAD 83
X=595562.95 LAT.= 32.61685925° N
Y=588189.11 LONG.= 104.15721662° W
NEW MEXICO EAST - NAD 27
X=554382.93 LAT.= 32.61674193° N
Y=588127.35 LONG.= 104.15670921° W
2489' FSL, 340' FEL - SECTION 34

FIRST TAKE POINT (FTP)
NEW MEXICO EAST - NAD 83
X=595760.54 LAT.= 32.61295439° N
Y=586768.83 LONG.= 104.15658254° W
NEW MEXICO EAST - NAD 27
X=554580.49 LAT.= 32.61283704° N
Y=586707.10 LONG.= 104.15607524° W
1068' FSL, 100' FEL - SECTION 34
251' FNL, 100' FEL - LEASE LINE

LAST TAKE POINT (LTP)
NEW MEXICO EAST - NAD 83
X=585371.34 LAT.= 32.61283814° N
Y=586710.91 LONG.= 104.19032390° W
NEW MEXICO EAST - NAD 27
X=544191.31 LAT.= 32.61272114° N
Y=586649.27 LONG.= 104.18981577° W
1068' FSL, 100' FWL - SECTION 33
249' FNL, 100' FWL - LEASE LINE

BOTTOM HOLE LOCATION (BHL)
NEW MEXICO EAST - NAD 83
X=585296.16 LAT.= 32.61283729° N
Y=586710.50 LONG.= 104.19056807° W
NEW MEXICO EAST - NAD 27
X=544116.13 LAT.= 32.61272029° N
Y=586648.85 LONG.= 104.19005993° W
1068' FSL, 25' FWL - SECTION 33
249' FNL, 25' FWL - LEASE LINE

PENETRATION POINT 2 (PP2)
NEW MEXICO EAST - NAD 83
X=593212.49 LAT.= 32.61292672° N
Y=586754.63 LONG.= 104.16485794° W
NEW MEXICO EAST - NAD 27
X=552032.45 LAT.= 32.61280945° N
Y=586692.92 LONG.= 104.16435043° W
1069' FSL, 2644' FWL - SECTION 34
251' FNL, 0' FWL - LEASE LINE

CORNER DATA
NEW MEXICO EAST - NAD 83
A - FOUND IRON PIPE W/ BRASS CAP N:590907.03' E:585541.35'
B - FOUND 5/8" IRON ROD W/ ALUM CAP N:590925.86' E:588152.01'
C - FOUND IRON PIPE W/ BRASS CAP N:590945.00' E:590760.68'
D - FOUND IRON PIPE W/ BRASS CAP N:590962.75' E:593372.54'
E - FOUND IRON PIPE W/ BRASS CAP N:590981.15' E:595983.74'
F - FOUND IRON PIPE W/ BRASS CAP N:588340.39' E:595907.65'
G - FOUND IRON PIPE W/ BRASS CAP N:585701.20' E:595828.61'
H - FOUND 5/8" IRON ROD W/ ALUM CAP N:585686.35' E:593171.86'
I - FOUND IRON PIPE W/ BRASS CAP N:585671.76' E:590514.87'
J - FOUND IRON PIPE W/ BRASS CAP N:585656.50' E:587858.72'
K - FOUND IRON PIPE W/ BRASS CAP N:585641.97' E:585202.31'
L - FOUND IRON PIPE W/ BRASS CAP N:588276.86' E:585371.95'
M - FOUND IRON PIPE W/ BRASS CAP N:588307.96' E:590637.53'

## 17 OPERATOR CERTIFICATION

*I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.*

Ashley Brown — 07/19/2023
Signature — Date

Ashley Brown
Printed Name

ashley.brown@permianres.com
E-mail Address

## 18 SURVEYOR CERTIFICATION

*I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.*

Date of Survey

Signature and Seal of Professional Surveyor: 07/13/2023

CHARLES L. JURICA
NEW MEXICO
25490
PROFESSIONAL SURVEYOR

Certificate Number

PERMIAN RESOURCES

**Project:** Eddy County, NM (NAD83 - NME)
**Site:** Dawson 34 Fed Com
**Well:** Dawson 34 Fed Com 204H
**Wellbore:** OH
**Design:** Plan 1 07-26-23
**Rig:** TBD

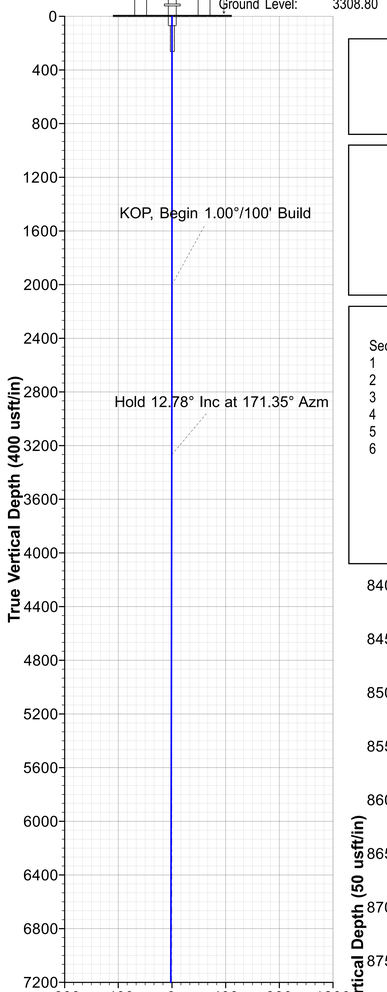
PHOENIX TECHNOLOGY SERVICES

T G M

**Azimuths to Grid North**
**True North: -0.09°**
**Magnetic North: 6.78°**

**Magnetic Field**
**Strength: 47533.8nT**
**Dip Angle: 60.23°**
**Date: 9/21/2023**
**Model: MVHD**

RKB @ 3333.80usft (TBD)
Ground Level: 3308.80




WELL DETAILS

Ground Level: 3308.80

| +N/-S | +E/-W | Northing | Easting | Latitude | Longitude |
|---|---|---|---|---|---|
| 0.00 | 0.00 | 588189.11 | 595562.95 | 32° 37' 0.693286 N | 104° 9' 25.979791 W |

DESIGN TARGET DETAILS

| Name | TVD | +N/-S | +E/-W | Northing | Easting | Latitude | Longitude |
|---|---|---|---|---|---|---|---|
| BHL - Dawson 34 FC 204H | 8974.00 | -1478.61 | -10266.79 | 586710.50 | 585296.16 | 32° 36' 46.214210 N | 104° 11' 26.045035 W |
| FTP - Dawson 34 FC 204H | 8974.00 | -1420.28 | 197.59 | 586768.83 | 595760.54 | 32° 36' 46.635797 N | 104° 9' 23.697131 W |
| LTP - Dawson 34 FC 204H | 8974.00 | -1478.20 | -10191.61 | 586710.91 | 585371.34 | 32° 36' 46.217268 N | 104° 11' 25.166043 W |
| PP2 - Dawson 34 FC 204H | 8974.00 | -1434.48 | -2350.46 | 586754.63 | 593212.49 | 32° 36' 46.536223 N | 104° 9' 53.488551 W |

SECTION DETAILS

| Sec | MD | Inc | Azi | TVD | +N/-S | +E/-W | Dleg | TFace | VSect | Target | Annotation |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 | 0.00 | | |
| 2 | 2000.00 | 0.00 | 0.00 | 2000.00 | 0.00 | 0.00 | 0.00 | 0.000 | 0.00 | | KOP, Begin 1.00°/100' Build |
| 3 | 3278.16 | 12.78 | 171.35 | 3267.59 | -140.36 | 21.36 | 1.00 | 171.349 | -1.13 | | Hold 12.78° Inc at 171.35° Azm |
| 4 | 8636.55 | 12.78 | 171.35 | 8493.19 | -1312.34 | 199.67 | 0.00 | 0.000 | -10.55 | | KOP/FTP: 8636.55' MD, 8493.20' TVD, Begin 12.00°/100' Build |
| 5 | 9401.86 | 90.00 | 269.68 | 8974.00 | -1422.93 | -276.95 | 12.00 | 98.128 | 476.95 | | LP, Hold 90.00° Inc at 269.68° Azm |
| 6 | 19391.86 | 90.00 | 269.68 | 8974.00 | -1478.61 | -10266.79 | 0.00 | 0.000 | 10372.72 | BHL - Dawson 34 FC 204H | BHL: 19391.86' MD, 8974.00' TVD |

Map System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone Name: New Mexico Eastern Zone

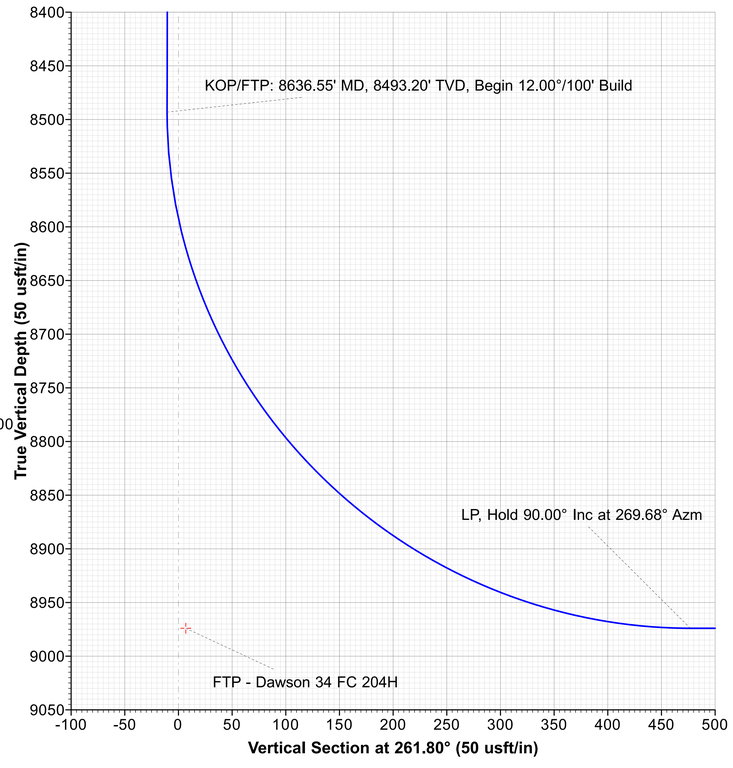
Local Origin: Well Dawson 34 Fed Com 204H, Grid North

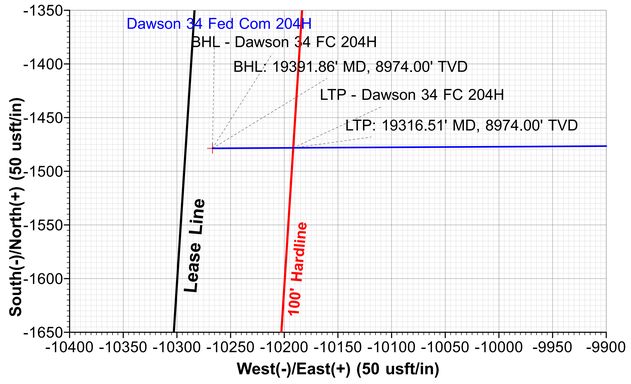
Latitude: 32° 37' 0.693286 N
Longitude: 104° 9' 25.979791 W

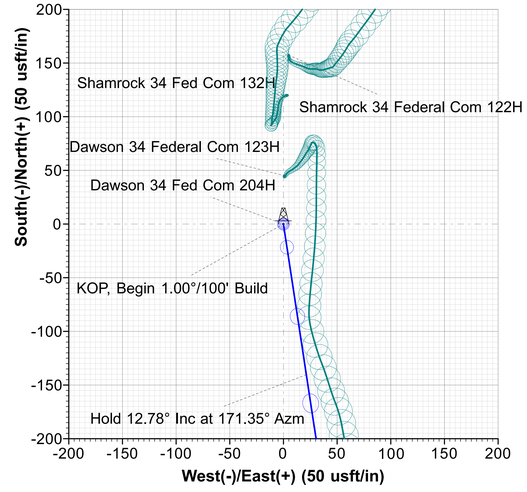
Grid East: 595562.95
Grid North: 588189.11
Scale Factor: 1.000

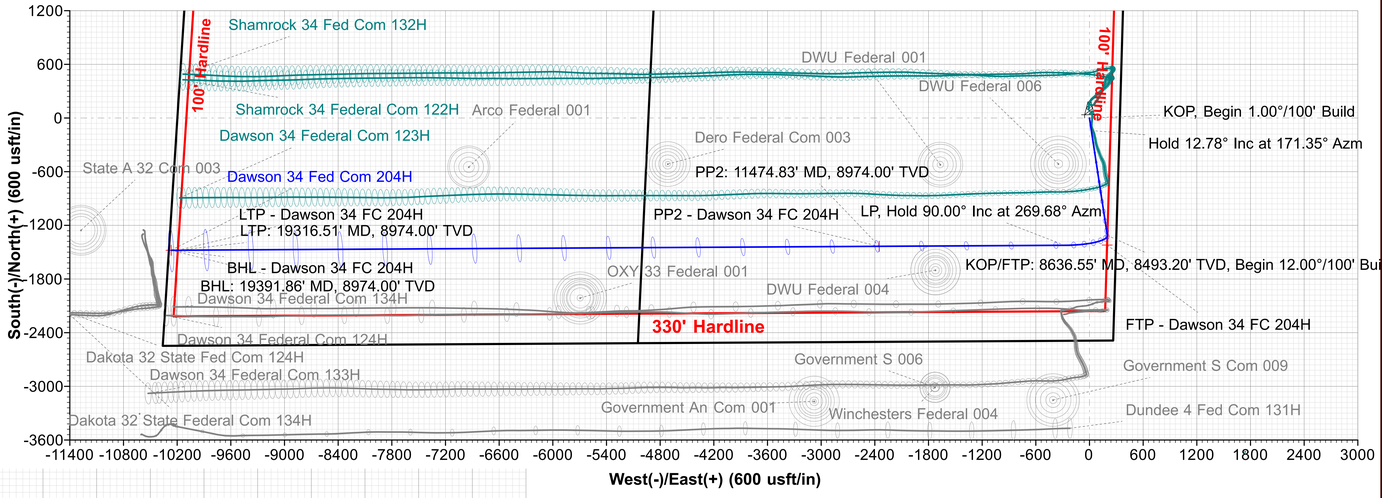
Geomagnetic Model: MVHD
Sample Date: 21-Sep-23
Magnetic Declination: 6.872°
Dip Angle from Horizontal: 60.225°
Magnetic Field Strength: 47533.81545916nT

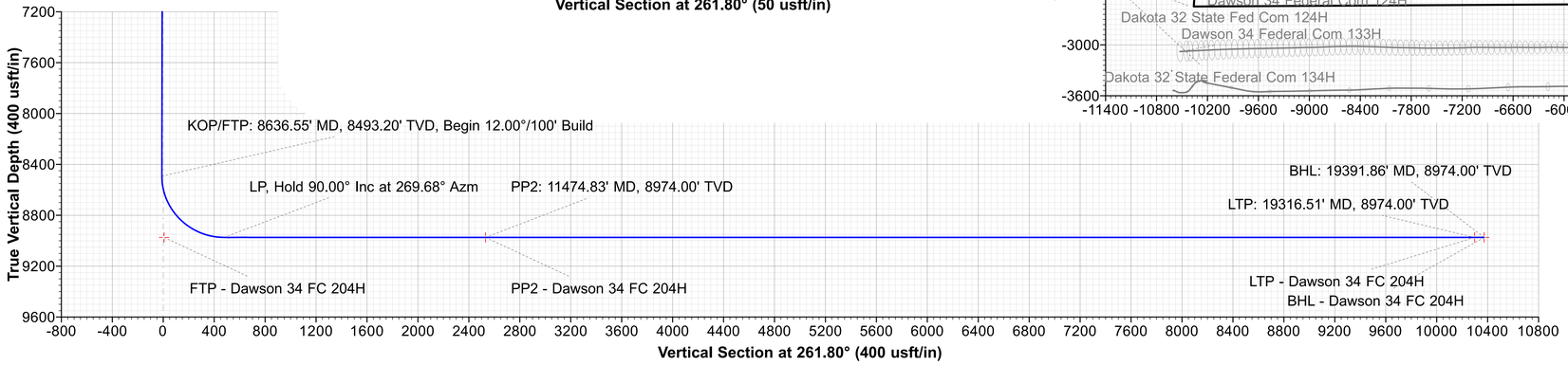
To convert a Magnetic Direction to a Grid Direction, Add 6.777°
To convert a Magnetic Direction to a True Direction, Add 6.872° East
To convert a True Direction to a Grid Direction, Subtract 0.095°




Date: 14:24, July 26 2023

PERMIAN RESOURCES

# Permian Resources

**Eddy County, NM (NAD83 - NME)**
**Dawson 34 Fed Com**
**Dawson 34 Fed Com 204H**

**OH**

**Plan: Plan 1 07-26-23**

# Standard Planning Report

**26 July, 2023**

PHOENIX TECHNOLOGY SERVICES

PERMIAN RESOURCES

# Phoenix Technology Services
Planning Report

PHOENIX TECHNOLOGY SERVICES

| | | | |
|---|---|---|---|
| **Database:** | USAEDMDB | **Local Co-ordinate Reference:** | Well Dawson 34 Fed Com 204H |
| **Company:** | Permian Resources | **TVD Reference:** | RKB @ 3333.80usft (TBD) |
| **Project:** | Eddy County, NM (NAD83 - NME) | **MD Reference:** | RKB @ 3333.80usft (TBD) |
| **Site:** | Dawson 34 Fed Com | **North Reference:** | Grid |
| **Well:** | Dawson 34 Fed Com 204H | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | OH | | |
| **Design:** | Plan 1 07-26-23 | | |

**Project** Eddy County, NM (NAD83 - NME)

| | | | |
|---|---|---|---|
| **Map System:** | US State Plane 1983 | **System Datum:** | Mean Sea Level |
| **Geo Datum:** | North American Datum 1983 | | |
| **Map Zone:** | New Mexico Eastern Zone | | |

**Site** Dawson 34 Fed Com

| | | | | | |
|---|---|---|---|---|---|
| **Site Position:** | | **Northing:** | 588,189.11 usft | **Latitude:** | 32° 37' 0.693286 N |
| **From:** | Map | **Easting:** | 595,562.95 usft | **Longitude:** | 104° 9' 25.979791 W |
| **Position Uncertainty:** | 0.00 usft | **Slot Radius:** | 13-3/16 " | **Grid Convergence:** | 0.095 ° |

**Well** Dawson 34 Fed Com 204H

| | | | | | | |
|---|---|---|---|---|---|---|
| **Well Position** | **+N/-S** | 0.00 usft | **Northing:** | 588,189.11 usft | **Latitude:** | 32° 37' 0.693286 N |
| | **+E/-W** | 0.00 usft | **Easting:** | 595,562.95 usft | **Longitude:** | 104° 9' 25.979791 W |
| **Position Uncertainty** | | 1.00 usft | **Wellhead Elevation:** | | **Ground Level:** | 3,308.80 usft |

**Wellbore** OH

| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
|---|---|---|---|---|---|
| | MVHD | 9/21/2023 | 6.872 | 60.225 | 47,533.81545915 |

**Design** Plan 1 07-26-23

**Audit Notes:**

| | | | | | |
|---|---|---|---|---|---|
| **Version:** | | **Phase:** | PLAN | **Tie On Depth:** | 0.00 |

| Vertical Section: | Depth From (TVD) (usft) | +N/-S (usft) | +E/-W (usft) | Direction (°) |
|---|---|---|---|---|
| | 0.00 | 0.00 | 0.00 | 261.80 |

**Plan Survey Tool Program** **Date** 7/26/2023

| | Depth From (usft) | Depth To (usft) | Survey (Wellbore) | Tool Name | Remarks |
|---|---|---|---|---|---|
| 1 | 0.00 | 19,391.86 | Plan 1 07-26-23 (OH) | MWD+HRGM | |
| | | | | OWSG MWD + HRGM | |

**Plan Sections**

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) | TFO (°) | Target |
|---|---|---|---|---|---|---|---|---|---|---|
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 | |
| 2,000.00 | 0.00 | 0.00 | 2,000.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 | |
| 3,278.16 | 12.78 | 171.35 | 3,267.59 | -140.36 | 21.36 | 1.00 | 1.00 | 0.00 | 171.349 | |
| 8,636.55 | 12.78 | 171.35 | 8,493.19 | -1,312.34 | 199.67 | 0.00 | 0.00 | 0.00 | 0.000 | |
| 9,401.86 | 90.00 | 269.68 | 8,974.00 | -1,422.93 | -276.95 | 12.00 | 10.09 | 12.85 | 98.128 | |
| 19,391.86 | 90.00 | 269.68 | 8,974.00 | -1,478.61 | -10,266.79 | 0.00 | 0.00 | 0.00 | 0.000 | BHL - Dawson 34 F |

PERMIAN RESOURCES

# Phoenix Technology Services
Planning Report

PHOENIX TECHNOLOGY SERVICES

| | | | |
|---|---|---|---|
| **Database:** | USAEDMDB | **Local Co-ordinate Reference:** | Well Dawson 34 Fed Com 204H |
| **Company:** | Permian Resources | **TVD Reference:** | RKB @ 3333.80usft (TBD) |
| **Project:** | Eddy County, NM (NAD83 - NME) | **MD Reference:** | RKB @ 3333.80usft (TBD) |
| **Site:** | Dawson 34 Fed Com | **North Reference:** | Grid |
| **Well:** | Dawson 34 Fed Com 204H | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | OH | | |
| **Design:** | Plan 1 07-26-23 | | |

**Planned Survey**

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
|---|---|---|---|---|---|---|---|---|---|
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,000.00 | 0.00 | 0.00 | 2,000.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| **KOP, Begin 1.00°/100' Build** | | | | | | | | | |
| 2,100.00 | 1.00 | 171.35 | 2,099.99 | -0.86 | 0.13 | -0.01 | 1.00 | 1.00 | 0.00 |
| 2,200.00 | 2.00 | 171.35 | 2,199.96 | -3.45 | 0.52 | -0.03 | 1.00 | 1.00 | 0.00 |
| 2,300.00 | 3.00 | 171.35 | 2,299.86 | -7.76 | 1.18 | -0.06 | 1.00 | 1.00 | 0.00 |
| 2,400.00 | 4.00 | 171.35 | 2,399.68 | -13.80 | 2.10 | -0.11 | 1.00 | 1.00 | 0.00 |
| 2,500.00 | 5.00 | 171.35 | 2,499.37 | -21.55 | 3.28 | -0.17 | 1.00 | 1.00 | 0.00 |
| 2,600.00 | 6.00 | 171.35 | 2,598.90 | -31.03 | 4.72 | -0.25 | 1.00 | 1.00 | 0.00 |
| 2,700.00 | 7.00 | 171.35 | 2,698.26 | -42.22 | 6.42 | -0.34 | 1.00 | 1.00 | 0.00 |
| 2,800.00 | 8.00 | 171.35 | 2,797.40 | -55.13 | 8.39 | -0.44 | 1.00 | 1.00 | 0.00 |
| 2,900.00 | 9.00 | 171.35 | 2,896.30 | -69.74 | 10.61 | -0.56 | 1.00 | 1.00 | 0.00 |
| 3,000.00 | 10.00 | 171.35 | 2,994.93 | -86.05 | 13.09 | -0.69 | 1.00 | 1.00 | 0.00 |
| 3,100.00 | 11.00 | 171.35 | 3,093.26 | -104.07 | 15.83 | -0.84 | 1.00 | 1.00 | 0.00 |
| 3,200.00 | 12.00 | 171.35 | 3,191.25 | -123.78 | 18.83 | -1.00 | 1.00 | 1.00 | 0.00 |
| 3,278.16 | 12.78 | 171.35 | 3,267.59 | -140.36 | 21.36 | -1.13 | 1.00 | 1.00 | 0.00 |
| **Hold 12.78° Inc at 171.35° Azm** | | | | | | | | | |
| 3,300.00 | 12.78 | 171.35 | 3,288.88 | -145.14 | 22.08 | -1.17 | 0.00 | 0.00 | 0.00 |
| 3,400.00 | 12.78 | 171.35 | 3,386.41 | -167.01 | 25.41 | -1.34 | 0.00 | 0.00 | 0.00 |
| 3,500.00 | 12.78 | 171.35 | 3,483.93 | -188.88 | 28.74 | -1.52 | 0.00 | 0.00 | 0.00 |
| 3,600.00 | 12.78 | 171.35 | 3,581.45 | -210.75 | 32.06 | -1.69 | 0.00 | 0.00 | 0.00 |
| 3,700.00 | 12.78 | 171.35 | 3,678.97 | -232.63 | 35.39 | -1.87 | 0.00 | 0.00 | 0.00 |
| 3,800.00 | 12.78 | 171.35 | 3,776.49 | -254.50 | 38.72 | -2.05 | 0.00 | 0.00 | 0.00 |
| 3,900.00 | 12.78 | 171.35 | 3,874.02 | -276.37 | 42.05 | -2.22 | 0.00 | 0.00 | 0.00 |
| 4,000.00 | 12.78 | 171.35 | 3,971.54 | -298.24 | 45.38 | -2.40 | 0.00 | 0.00 | 0.00 |
| 4,100.00 | 12.78 | 171.35 | 4,069.06 | -320.11 | 48.70 | -2.57 | 0.00 | 0.00 | 0.00 |
| 4,200.00 | 12.78 | 171.35 | 4,166.58 | -341.99 | 52.03 | -2.75 | 0.00 | 0.00 | 0.00 |
| 4,300.00 | 12.78 | 171.35 | 4,264.10 | -363.86 | 55.36 | -2.93 | 0.00 | 0.00 | 0.00 |
| 4,400.00 | 12.78 | 171.35 | 4,361.63 | -385.73 | 58.69 | -3.10 | 0.00 | 0.00 | 0.00 |
| 4,500.00 | 12.78 | 171.35 | 4,459.15 | -407.60 | 62.01 | -3.28 | 0.00 | 0.00 | 0.00 |
| 4,600.00 | 12.78 | 171.35 | 4,556.67 | -429.47 | 65.34 | -3.45 | 0.00 | 0.00 | 0.00 |
| 4,700.00 | 12.78 | 171.35 | 4,654.19 | -451.34 | 68.67 | -3.63 | 0.00 | 0.00 | 0.00 |
| 4,800.00 | 12.78 | 171.35 | 4,751.71 | -473.22 | 72.00 | -3.81 | 0.00 | 0.00 | 0.00 |
| 4,900.00 | 12.78 | 171.35 | 4,849.24 | -495.09 | 75.32 | -3.98 | 0.00 | 0.00 | 0.00 |
| 5,000.00 | 12.78 | 171.35 | 4,946.76 | -516.96 | 78.65 | -4.16 | 0.00 | 0.00 | 0.00 |
| 5,100.00 | 12.78 | 171.35 | 5,044.28 | -538.83 | 81.98 | -4.33 | 0.00 | 0.00 | 0.00 |
| 5,200.00 | 12.78 | 171.35 | 5,141.80 | -560.70 | 85.31 | -4.51 | 0.00 | 0.00 | 0.00 |
| 5,300.00 | 12.78 | 171.35 | 5,239.32 | -582.58 | 88.64 | -4.69 | 0.00 | 0.00 | 0.00 |
| 5,400.00 | 12.78 | 171.35 | 5,336.85 | -604.45 | 91.96 | -4.86 | 0.00 | 0.00 | 0.00 |
| 5,500.00 | 12.78 | 171.35 | 5,434.37 | -626.32 | 95.29 | -5.04 | 0.00 | 0.00 | 0.00 |
| 5,600.00 | 12.78 | 171.35 | 5,531.89 | -648.19 | 98.62 | -5.21 | 0.00 | 0.00 | 0.00 |
| 5,700.00 | 12.78 | 171.35 | 5,629.41 | -670.06 | 101.95 | -5.39 | 0.00 | 0.00 | 0.00 |
| 5,800.00 | 12.78 | 171.35 | 5,726.93 | -691.94 | 105.27 | -5.56 | 0.00 | 0.00 | 0.00 |
| 5,900.00 | 12.78 | 171.35 | 5,824.46 | -713.81 | 108.60 | -5.74 | 0.00 | 0.00 | 0.00 |
| 6,000.00 | 12.78 | 171.35 | 5,921.98 | -735.68 | 111.93 | -5.92 | 0.00 | 0.00 | 0.00 |
| 6,100.00 | 12.78 | 171.35 | 6,019.50 | -757.55 | 115.26 | -6.09 | 0.00 | 0.00 | 0.00 |
| 6,200.00 | 12.78 | 171.35 | 6,117.02 | -779.42 | 118.58 | -6.27 | 0.00 | 0.00 | 0.00 |
| 6,300.00 | 12.78 | 171.35 | 6,214.54 | -801.30 | 121.91 | -6.44 | 0.00 | 0.00 | 0.00 |
| 6,400.00 | 12.78 | 171.35 | 6,312.07 | -823.17 | 125.24 | -6.62 | 0.00 | 0.00 | 0.00 |
| 6,500.00 | 12.78 | 171.35 | 6,409.59 | -845.04 | 128.57 | -6.80 | 0.00 | 0.00 | 0.00 |
| 6,600.00 | 12.78 | 171.35 | 6,507.11 | -866.91 | 131.90 | -6.97 | 0.00 | 0.00 | 0.00 |
| 6,700.00 | 12.78 | 171.35 | 6,604.63 | -888.78 | 135.22 | -7.15 | 0.00 | 0.00 | 0.00 |
| 6,800.00 | 12.78 | 171.35 | 6,702.15 | -910.66 | 138.55 | -7.32 | 0.00 | 0.00 | 0.00 |

PERMIAN RESOURCES

# Phoenix Technology Services
Planning Report

PHOENIX TECHNOLOGY SERVICES

| | | | |
|---|---|---|---|
| **Database:** | USAEDMDB | **Local Co-ordinate Reference:** | Well Dawson 34 Fed Com 204H |
| **Company:** | Permian Resources | **TVD Reference:** | RKB @ 3333.80usft (TBD) |
| **Project:** | Eddy County, NM (NAD83 - NME) | **MD Reference:** | RKB @ 3333.80usft (TBD) |
| **Site:** | Dawson 34 Fed Com | **North Reference:** | Grid |
| **Well:** | Dawson 34 Fed Com 204H | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | OH | | |
| **Design:** | Plan 1 07-26-23 | | |

**Planned Survey**

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
|---|---|---|---|---|---|---|---|---|---|
| 6,900.00 | 12.78 | 171.35 | 6,799.68 | -932.53 | 141.88 | -7.50 | 0.00 | 0.00 | 0.00 |
| 7,000.00 | 12.78 | 171.35 | 6,897.20 | -954.40 | 145.21 | -7.68 | 0.00 | 0.00 | 0.00 |
| 7,100.00 | 12.78 | 171.35 | 6,994.72 | -976.27 | 148.53 | -7.85 | 0.00 | 0.00 | 0.00 |
| 7,200.00 | 12.78 | 171.35 | 7,092.24 | -998.14 | 151.86 | -8.03 | 0.00 | 0.00 | 0.00 |
| 7,300.00 | 12.78 | 171.35 | 7,189.77 | -1,020.01 | 155.19 | -8.20 | 0.00 | 0.00 | 0.00 |
| 7,400.00 | 12.78 | 171.35 | 7,287.29 | -1,041.89 | 158.52 | -8.38 | 0.00 | 0.00 | 0.00 |
| 7,500.00 | 12.78 | 171.35 | 7,384.81 | -1,063.76 | 161.84 | -8.56 | 0.00 | 0.00 | 0.00 |
| 7,600.00 | 12.78 | 171.35 | 7,482.33 | -1,085.63 | 165.17 | -8.73 | 0.00 | 0.00 | 0.00 |
| 7,700.00 | 12.78 | 171.35 | 7,579.85 | -1,107.50 | 168.50 | -8.91 | 0.00 | 0.00 | 0.00 |
| 7,800.00 | 12.78 | 171.35 | 7,677.38 | -1,129.37 | 171.83 | -9.08 | 0.00 | 0.00 | 0.00 |
| 7,900.00 | 12.78 | 171.35 | 7,774.90 | -1,151.25 | 175.16 | -9.26 | 0.00 | 0.00 | 0.00 |
| 8,000.00 | 12.78 | 171.35 | 7,872.42 | -1,173.12 | 178.48 | -9.43 | 0.00 | 0.00 | 0.00 |
| 8,100.00 | 12.78 | 171.35 | 7,969.94 | -1,194.99 | 181.81 | -9.61 | 0.00 | 0.00 | 0.00 |
| 8,200.00 | 12.78 | 171.35 | 8,067.46 | -1,216.86 | 185.14 | -9.79 | 0.00 | 0.00 | 0.00 |
| 8,300.00 | 12.78 | 171.35 | 8,164.99 | -1,238.73 | 188.47 | -9.96 | 0.00 | 0.00 | 0.00 |
| 8,400.00 | 12.78 | 171.35 | 8,262.51 | -1,260.61 | 191.79 | -10.14 | 0.00 | 0.00 | 0.00 |
| 8,500.00 | 12.78 | 171.35 | 8,360.03 | -1,282.48 | 195.12 | -10.31 | 0.00 | 0.00 | 0.00 |
| 8,600.00 | 12.78 | 171.35 | 8,457.55 | -1,304.35 | 198.45 | -10.49 | 0.00 | 0.00 | 0.00 |
| 8,636.55 | 12.78 | 171.35 | 8,493.19 | -1,312.34 | 199.67 | -10.55 | 0.00 | 0.00 | 0.00 |
| **KOP/FTP: 8636.55' MD, 8493.20' TVD, Begin 12.00°/100' Build** | | | | | | | | | |
| 8,700.00 | 13.89 | 204.48 | 8,555.02 | -1,326.23 | 197.56 | -6.49 | 12.00 | 1.74 | 52.21 |
| 8,800.00 | 21.70 | 235.34 | 8,650.37 | -1,347.75 | 177.31 | 16.62 | 12.00 | 7.81 | 30.87 |
| 8,900.00 | 32.13 | 248.74 | 8,739.49 | -1,367.98 | 137.18 | 59.23 | 12.00 | 10.42 | 13.39 |
| 9,000.00 | 43.31 | 255.91 | 8,818.51 | -1,386.04 | 78.92 | 119.46 | 12.00 | 11.19 | 7.17 |
| 9,100.00 | 54.79 | 260.57 | 8,883.96 | -1,401.14 | 5.08 | 194.70 | 12.00 | 11.48 | 4.66 |
| 9,200.00 | 66.40 | 264.05 | 8,932.98 | -1,412.63 | -81.10 | 281.64 | 12.00 | 11.61 | 3.49 |
| 9,300.00 | 78.08 | 266.96 | 8,963.44 | -1,419.99 | -175.88 | 376.50 | 12.00 | 11.68 | 2.91 |
| 9,400.00 | 89.78 | 269.63 | 8,974.00 | -1,422.91 | -275.09 | 475.11 | 12.00 | 11.70 | 2.67 |
| 9,401.86 | 90.00 | 269.68 | 8,974.00 | -1,422.93 | -276.95 | 476.95 | 12.00 | 11.71 | 2.63 |
| **LP, Hold 90.00° Inc at 269.68° Azm** | | | | | | | | | |
| 9,500.00 | 90.00 | 269.68 | 8,974.00 | -1,423.47 | -375.09 | 574.17 | 0.00 | 0.00 | 0.00 |
| 9,600.00 | 90.00 | 269.68 | 8,974.00 | -1,424.03 | -475.09 | 673.23 | 0.00 | 0.00 | 0.00 |
| 9,700.00 | 90.00 | 269.68 | 8,974.00 | -1,424.59 | -575.08 | 772.28 | 0.00 | 0.00 | 0.00 |
| 9,800.00 | 90.00 | 269.68 | 8,974.00 | -1,425.14 | -675.08 | 871.34 | 0.00 | 0.00 | 0.00 |
| 9,900.00 | 90.00 | 269.68 | 8,974.00 | -1,425.70 | -775.08 | 970.40 | 0.00 | 0.00 | 0.00 |
| 10,000.00 | 90.00 | 269.68 | 8,974.00 | -1,426.26 | -875.08 | 1,069.45 | 0.00 | 0.00 | 0.00 |
| 10,100.00 | 90.00 | 269.68 | 8,974.00 | -1,426.82 | -975.08 | 1,168.51 | 0.00 | 0.00 | 0.00 |
| 10,200.00 | 90.00 | 269.68 | 8,974.00 | -1,427.37 | -1,075.08 | 1,267.57 | 0.00 | 0.00 | 0.00 |
| 10,300.00 | 90.00 | 269.68 | 8,974.00 | -1,427.93 | -1,175.08 | 1,366.62 | 0.00 | 0.00 | 0.00 |
| 10,400.00 | 90.00 | 269.68 | 8,974.00 | -1,428.49 | -1,275.07 | 1,465.68 | 0.00 | 0.00 | 0.00 |
| 10,500.00 | 90.00 | 269.68 | 8,974.00 | -1,429.05 | -1,375.07 | 1,564.74 | 0.00 | 0.00 | 0.00 |
| 10,600.00 | 90.00 | 269.68 | 8,974.00 | -1,429.60 | -1,475.07 | 1,663.79 | 0.00 | 0.00 | 0.00 |
| 10,700.00 | 90.00 | 269.68 | 8,974.00 | -1,430.16 | -1,575.07 | 1,762.85 | 0.00 | 0.00 | 0.00 |
| 10,800.00 | 90.00 | 269.68 | 8,974.00 | -1,430.72 | -1,675.07 | 1,861.91 | 0.00 | 0.00 | 0.00 |
| 10,900.00 | 90.00 | 269.68 | 8,974.00 | -1,431.28 | -1,775.07 | 1,960.96 | 0.00 | 0.00 | 0.00 |
| 11,000.00 | 90.00 | 269.68 | 8,974.00 | -1,431.83 | -1,875.06 | 2,060.02 | 0.00 | 0.00 | 0.00 |
| 11,100.00 | 90.00 | 269.68 | 8,974.00 | -1,432.39 | -1,975.06 | 2,159.08 | 0.00 | 0.00 | 0.00 |
| 11,200.00 | 90.00 | 269.68 | 8,974.00 | -1,432.95 | -2,075.06 | 2,258.13 | 0.00 | 0.00 | 0.00 |
| 11,300.00 | 90.00 | 269.68 | 8,974.00 | -1,433.51 | -2,175.06 | 2,357.19 | 0.00 | 0.00 | 0.00 |
| 11,400.00 | 90.00 | 269.68 | 8,974.00 | -1,434.06 | -2,275.06 | 2,456.25 | 0.00 | 0.00 | 0.00 |
| 11,474.83 | 90.00 | 269.68 | 8,974.00 | -1,434.48 | -2,349.89 | 2,530.37 | 0.00 | 0.00 | 0.00 |
| **PP2: 11474.83' MD, 8974.00' TVD** | | | | | | | | | |
| 11,500.00 | 90.00 | 269.68 | 8,974.00 | -1,434.62 | -2,375.06 | 2,555.30 | 0.00 | 0.00 | 0.00 |

PERMIAN RESOURCES

# Phoenix Technology Services
Planning Report

PHOENIX TECHNOLOGY SERVICES

| | | | |
|---|---|---|---|
| **Database:** | USAEDMDB | **Local Co-ordinate Reference:** | Well Dawson 34 Fed Com 204H |
| **Company:** | Permian Resources | **TVD Reference:** | RKB @ 3333.80usft (TBD) |
| **Project:** | Eddy County, NM (NAD83 - NME) | **MD Reference:** | RKB @ 3333.80usft (TBD) |
| **Site:** | Dawson 34 Fed Com | **North Reference:** | Grid |
| **Well:** | Dawson 34 Fed Com 204H | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | OH | | |
| **Design:** | Plan 1 07-26-23 | | |

**Planned Survey**

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
|---|---|---|---|---|---|---|---|---|---|
| 11,600.00 | 90.00 | 269.68 | 8,974.00 | -1,435.18 | -2,475.06 | 2,654.36 | 0.00 | 0.00 | 0.00 |
| 11,700.00 | 90.00 | 269.68 | 8,974.00 | -1,435.74 | -2,575.05 | 2,753.42 | 0.00 | 0.00 | 0.00 |
| 11,800.00 | 90.00 | 269.68 | 8,974.00 | -1,436.29 | -2,675.05 | 2,852.47 | 0.00 | 0.00 | 0.00 |
| 11,900.00 | 90.00 | 269.68 | 8,974.00 | -1,436.85 | -2,775.05 | 2,951.53 | 0.00 | 0.00 | 0.00 |
| 12,000.00 | 90.00 | 269.68 | 8,974.00 | -1,437.41 | -2,875.05 | 3,050.59 | 0.00 | 0.00 | 0.00 |
| 12,100.00 | 90.00 | 269.68 | 8,974.00 | -1,437.96 | -2,975.05 | 3,149.65 | 0.00 | 0.00 | 0.00 |
| 12,200.00 | 90.00 | 269.68 | 8,974.00 | -1,438.52 | -3,075.05 | 3,248.70 | 0.00 | 0.00 | 0.00 |
| 12,300.00 | 90.00 | 269.68 | 8,974.00 | -1,439.08 | -3,175.04 | 3,347.76 | 0.00 | 0.00 | 0.00 |
| 12,400.00 | 90.00 | 269.68 | 8,974.00 | -1,439.64 | -3,275.04 | 3,446.82 | 0.00 | 0.00 | 0.00 |
| 12,500.00 | 90.00 | 269.68 | 8,974.00 | -1,440.19 | -3,375.04 | 3,545.87 | 0.00 | 0.00 | 0.00 |
| 12,600.00 | 90.00 | 269.68 | 8,974.00 | -1,440.75 | -3,475.04 | 3,644.93 | 0.00 | 0.00 | 0.00 |
| 12,700.00 | 90.00 | 269.68 | 8,974.00 | -1,441.31 | -3,575.04 | 3,743.99 | 0.00 | 0.00 | 0.00 |
| 12,800.00 | 90.00 | 269.68 | 8,974.00 | -1,441.87 | -3,675.04 | 3,843.04 | 0.00 | 0.00 | 0.00 |
| 12,900.00 | 90.00 | 269.68 | 8,974.00 | -1,442.42 | -3,775.04 | 3,942.10 | 0.00 | 0.00 | 0.00 |
| 13,000.00 | 90.00 | 269.68 | 8,974.00 | -1,442.98 | -3,875.03 | 4,041.16 | 0.00 | 0.00 | 0.00 |
| 13,100.00 | 90.00 | 269.68 | 8,974.00 | -1,443.54 | -3,975.03 | 4,140.21 | 0.00 | 0.00 | 0.00 |
| 13,200.00 | 90.00 | 269.68 | 8,974.00 | -1,444.10 | -4,075.03 | 4,239.27 | 0.00 | 0.00 | 0.00 |
| 13,300.00 | 90.00 | 269.68 | 8,974.00 | -1,444.65 | -4,175.03 | 4,338.33 | 0.00 | 0.00 | 0.00 |
| 13,400.00 | 90.00 | 269.68 | 8,974.00 | -1,445.21 | -4,275.03 | 4,437.38 | 0.00 | 0.00 | 0.00 |
| 13,500.00 | 90.00 | 269.68 | 8,974.00 | -1,445.77 | -4,375.03 | 4,536.44 | 0.00 | 0.00 | 0.00 |
| 13,600.00 | 90.00 | 269.68 | 8,974.00 | -1,446.33 | -4,475.02 | 4,635.50 | 0.00 | 0.00 | 0.00 |
| 13,700.00 | 90.00 | 269.68 | 8,974.00 | -1,446.88 | -4,575.02 | 4,734.55 | 0.00 | 0.00 | 0.00 |
| 13,800.00 | 90.00 | 269.68 | 8,974.00 | -1,447.44 | -4,675.02 | 4,833.61 | 0.00 | 0.00 | 0.00 |
| 13,900.00 | 90.00 | 269.68 | 8,974.00 | -1,448.00 | -4,775.02 | 4,932.67 | 0.00 | 0.00 | 0.00 |
| 14,000.00 | 90.00 | 269.68 | 8,974.00 | -1,448.56 | -4,875.02 | 5,031.72 | 0.00 | 0.00 | 0.00 |
| 14,100.00 | 90.00 | 269.68 | 8,974.00 | -1,449.11 | -4,975.02 | 5,130.78 | 0.00 | 0.00 | 0.00 |
| 14,200.00 | 90.00 | 269.68 | 8,974.00 | -1,449.67 | -5,075.02 | 5,229.84 | 0.00 | 0.00 | 0.00 |
| 14,300.00 | 90.00 | 269.68 | 8,974.00 | -1,450.23 | -5,175.01 | 5,328.89 | 0.00 | 0.00 | 0.00 |
| 14,400.00 | 90.00 | 269.68 | 8,974.00 | -1,450.79 | -5,275.01 | 5,427.95 | 0.00 | 0.00 | 0.00 |
| 14,500.00 | 90.00 | 269.68 | 8,974.00 | -1,451.34 | -5,375.01 | 5,527.01 | 0.00 | 0.00 | 0.00 |
| 14,600.00 | 90.00 | 269.68 | 8,974.00 | -1,451.90 | -5,475.01 | 5,626.06 | 0.00 | 0.00 | 0.00 |
| 14,700.00 | 90.00 | 269.68 | 8,974.00 | -1,452.46 | -5,575.01 | 5,725.12 | 0.00 | 0.00 | 0.00 |
| 14,800.00 | 90.00 | 269.68 | 8,974.00 | -1,453.01 | -5,675.01 | 5,824.18 | 0.00 | 0.00 | 0.00 |
| 14,900.00 | 90.00 | 269.68 | 8,974.00 | -1,453.57 | -5,775.00 | 5,923.23 | 0.00 | 0.00 | 0.00 |
| 15,000.00 | 90.00 | 269.68 | 8,974.00 | -1,454.13 | -5,875.00 | 6,022.29 | 0.00 | 0.00 | 0.00 |
| 15,100.00 | 90.00 | 269.68 | 8,974.00 | -1,454.69 | -5,975.00 | 6,121.35 | 0.00 | 0.00 | 0.00 |
| 15,200.00 | 90.00 | 269.68 | 8,974.00 | -1,455.24 | -6,075.00 | 6,220.40 | 0.00 | 0.00 | 0.00 |
| 15,300.00 | 90.00 | 269.68 | 8,974.00 | -1,455.80 | -6,175.00 | 6,319.46 | 0.00 | 0.00 | 0.00 |
| 15,400.00 | 90.00 | 269.68 | 8,974.00 | -1,456.36 | -6,275.00 | 6,418.52 | 0.00 | 0.00 | 0.00 |
| 15,500.00 | 90.00 | 269.68 | 8,974.00 | -1,456.92 | -6,374.99 | 6,517.57 | 0.00 | 0.00 | 0.00 |
| 15,600.00 | 90.00 | 269.68 | 8,974.00 | -1,457.47 | -6,474.99 | 6,616.63 | 0.00 | 0.00 | 0.00 |
| 15,700.00 | 90.00 | 269.68 | 8,974.00 | -1,458.03 | -6,574.99 | 6,715.69 | 0.00 | 0.00 | 0.00 |
| 15,800.00 | 90.00 | 269.68 | 8,974.00 | -1,458.59 | -6,674.99 | 6,814.74 | 0.00 | 0.00 | 0.00 |
| 15,900.00 | 90.00 | 269.68 | 8,974.00 | -1,459.15 | -6,774.99 | 6,913.80 | 0.00 | 0.00 | 0.00 |
| 16,000.00 | 90.00 | 269.68 | 8,974.00 | -1,459.70 | -6,874.99 | 7,012.86 | 0.00 | 0.00 | 0.00 |
| 16,100.00 | 90.00 | 269.68 | 8,974.00 | -1,460.26 | -6,974.99 | 7,111.91 | 0.00 | 0.00 | 0.00 |
| 16,200.00 | 90.00 | 269.68 | 8,974.00 | -1,460.82 | -7,074.98 | 7,210.97 | 0.00 | 0.00 | 0.00 |
| 16,300.00 | 90.00 | 269.68 | 8,974.00 | -1,461.38 | -7,174.98 | 7,310.03 | 0.00 | 0.00 | 0.00 |
| 16,400.00 | 90.00 | 269.68 | 8,974.00 | -1,461.93 | -7,274.98 | 7,409.08 | 0.00 | 0.00 | 0.00 |
| 16,500.00 | 90.00 | 269.68 | 8,974.00 | -1,462.49 | -7,374.98 | 7,508.14 | 0.00 | 0.00 | 0.00 |
| 16,600.00 | 90.00 | 269.68 | 8,974.00 | -1,463.05 | -7,474.98 | 7,607.20 | 0.00 | 0.00 | 0.00 |
| 16,700.00 | 90.00 | 269.68 | 8,974.00 | -1,463.61 | -7,574.98 | 7,706.25 | 0.00 | 0.00 | 0.00 |
| 16,800.00 | 90.00 | 269.68 | 8,974.00 | -1,464.16 | -7,674.97 | 7,805.31 | 0.00 | 0.00 | 0.00 |
| 16,900.00 | 90.00 | 269.68 | 8,974.00 | -1,464.72 | -7,774.97 | 7,904.37 | 0.00 | 0.00 | 0.00 |

PERMIAN RESOURCES

# Phoenix Technology Services
Planning Report

PHOENIX TECHNOLOGY SERVICES

| | | | |
|---|---|---|---|
| **Database:** | USAEDMDB | **Local Co-ordinate Reference:** | Well Dawson 34 Fed Com 204H |
| **Company:** | Permian Resources | **TVD Reference:** | RKB @ 3333.80usft (TBD) |
| **Project:** | Eddy County, NM (NAD83 - NME) | **MD Reference:** | RKB @ 3333.80usft (TBD) |
| **Site:** | Dawson 34 Fed Com | **North Reference:** | Grid |
| **Well:** | Dawson 34 Fed Com 204H | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | OH | | |
| **Design:** | Plan 1 07-26-23 | | |

**Planned Survey**

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
|---|---|---|---|---|---|---|---|---|---|
| 17,000.00 | 90.00 | 269.68 | 8,974.00 | -1,465.28 | -7,874.97 | 8,003.42 | 0.00 | 0.00 | 0.00 |
| 17,100.00 | 90.00 | 269.68 | 8,974.00 | -1,465.84 | -7,974.97 | 8,102.48 | 0.00 | 0.00 | 0.00 |
| 17,200.00 | 90.00 | 269.68 | 8,974.00 | -1,466.39 | -8,074.97 | 8,201.54 | 0.00 | 0.00 | 0.00 |
| 17,300.00 | 90.00 | 269.68 | 8,974.00 | -1,466.95 | -8,174.97 | 8,300.59 | 0.00 | 0.00 | 0.00 |
| 17,400.00 | 90.00 | 269.68 | 8,974.00 | -1,467.51 | -8,274.97 | 8,399.65 | 0.00 | 0.00 | 0.00 |
| 17,500.00 | 90.00 | 269.68 | 8,974.00 | -1,468.06 | -8,374.96 | 8,498.71 | 0.00 | 0.00 | 0.00 |
| 17,600.00 | 90.00 | 269.68 | 8,974.00 | -1,468.62 | -8,474.96 | 8,597.76 | 0.00 | 0.00 | 0.00 |
| 17,700.00 | 90.00 | 269.68 | 8,974.00 | -1,469.18 | -8,574.96 | 8,696.82 | 0.00 | 0.00 | 0.00 |
| 17,800.00 | 90.00 | 269.68 | 8,974.00 | -1,469.74 | -8,674.96 | 8,795.88 | 0.00 | 0.00 | 0.00 |
| 17,900.00 | 90.00 | 269.68 | 8,974.00 | -1,470.29 | -8,774.96 | 8,894.93 | 0.00 | 0.00 | 0.00 |
| 18,000.00 | 90.00 | 269.68 | 8,974.00 | -1,470.85 | -8,874.96 | 8,993.99 | 0.00 | 0.00 | 0.00 |
| 18,100.00 | 90.00 | 269.68 | 8,974.00 | -1,471.41 | -8,974.95 | 9,093.05 | 0.00 | 0.00 | 0.00 |
| 18,200.00 | 90.00 | 269.68 | 8,974.00 | -1,471.97 | -9,074.95 | 9,192.10 | 0.00 | 0.00 | 0.00 |
| 18,300.00 | 90.00 | 269.68 | 8,974.00 | -1,472.52 | -9,174.95 | 9,291.16 | 0.00 | 0.00 | 0.00 |
| 18,400.00 | 90.00 | 269.68 | 8,974.00 | -1,473.08 | -9,274.95 | 9,390.22 | 0.00 | 0.00 | 0.00 |
| 18,500.00 | 90.00 | 269.68 | 8,974.00 | -1,473.64 | -9,374.95 | 9,489.27 | 0.00 | 0.00 | 0.00 |
| 18,600.00 | 90.00 | 269.68 | 8,974.00 | -1,474.20 | -9,474.95 | 9,588.33 | 0.00 | 0.00 | 0.00 |
| 18,700.00 | 90.00 | 269.68 | 8,974.00 | -1,474.75 | -9,574.95 | 9,687.39 | 0.00 | 0.00 | 0.00 |
| 18,800.00 | 90.00 | 269.68 | 8,974.00 | -1,475.31 | -9,674.94 | 9,786.44 | 0.00 | 0.00 | 0.00 |
| 18,900.00 | 90.00 | 269.68 | 8,974.00 | -1,475.87 | -9,774.94 | 9,885.50 | 0.00 | 0.00 | 0.00 |
| 19,000.00 | 90.00 | 269.68 | 8,974.00 | -1,476.43 | -9,874.94 | 9,984.56 | 0.00 | 0.00 | 0.00 |
| 19,100.00 | 90.00 | 269.68 | 8,974.00 | -1,476.98 | -9,974.94 | 10,083.61 | 0.00 | 0.00 | 0.00 |
| 19,200.00 | 90.00 | 269.68 | 8,974.00 | -1,477.54 | -10,074.94 | 10,182.67 | 0.00 | 0.00 | 0.00 |
| 19,300.00 | 90.00 | 269.68 | 8,974.00 | -1,478.10 | -10,174.94 | 10,281.73 | 0.00 | 0.00 | 0.00 |
| 19,316.51 | 90.00 | 269.68 | 8,974.00 | -1,478.19 | -10,191.45 | 10,298.08 | 0.00 | 0.00 | 0.00 |
| **LTP: 19316.51' MD, 8974.00' TVD** | | | | | | | | | |
| 19,391.86 | 90.00 | 269.68 | 8,974.00 | -1,478.61 | -10,266.79 | 10,372.72 | 0.00 | 0.00 | 0.00 |
| **BHL: 19391.86' MD, 8974.00' TVD** | | | | | | | | | |

**Design Targets**

| Target Name - hit/miss target - Shape | Dip Angle (°) | Dip Dir. (°) | TVD (usft) | +N/-S (usft) | +E/-W (usft) | Northing (usft) | Easting (usft) | Latitude | Longitude |
|---|---|---|---|---|---|---|---|---|---|
| PP2 - Dawson 34 FC<br>- plan hits target center<br>- Point | 0.00 | 0.00 | 8,974.00 | -1,434.48 | -2,350.46 | 586,754.63 | 593,212.49 | 32° 36' 46.536223 N | 104° 9' 53.488551 W |
| BHL - Dawson 34 FC<br>- plan hits target center<br>- Point | 0.00 | 0.00 | 8,974.00 | -1,478.61 | -10,266.79 | 586,710.50 | 585,296.16 | 32° 36' 46.214211 N | 4° 11' 26.045035 W |
| FTP - Dawson 34 FC<br>- plan misses target center by 196.00usft at 9019.39usft MD (8832.36 TVD, -1389.22 N, 65.73 E)<br>- Point | 0.00 | 0.00 | 8,974.00 | -1,420.28 | 197.59 | 586,768.83 | 595,760.54 | 32° 36' 46.635797 N | 104° 9' 23.697131 W |
| LTP - Dawson 34 FC<br>- plan misses target center by 0.16usft at 19316.51usft MD (8974.00 TVD, -1478.19 N, -10191.45 E)<br>- Point | 0.00 | 0.00 | 8,974.00 | -1,478.20 | -10,191.61 | 586,710.91 | 585,371.34 | 32° 36' 46.217268 N | 4° 11' 25.166043 W |

PERMIAN RESOURCES

# Phoenix Technology Services
Planning Report

PHOENIX TECHNOLOGY SERVICES

| | | | |
|---|---|---|---|
| **Database:** | USAEDMDB | **Local Co-ordinate Reference:** | Well Dawson 34 Fed Com 204H |
| **Company:** | Permian Resources | **TVD Reference:** | RKB @ 3333.80usft (TBD) |
| **Project:** | Eddy County, NM (NAD83 - NME) | **MD Reference:** | RKB @ 3333.80usft (TBD) |
| **Site:** | Dawson 34 Fed Com | **North Reference:** | Grid |
| **Well:** | Dawson 34 Fed Com 204H | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | OH | | |
| **Design:** | Plan 1 07-26-23 | | |

**Plan Annotations**

| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates +N/-S (usft) | +E/-W (usft) | Comment |
|---|---|---|---|---|
| 2,000.00 | 2,000.00 | 0.00 | 0.00 | KOP, Begin 1.00°/100' Build |
| 3,278.16 | 3,267.59 | -140.36 | 21.36 | Hold 12.78° Inc at 171.35° Azm |
| 8,636.55 | 8,493.19 | -1,312.34 | 199.67 | KOP/FTP: 8636.55' MD, 8493.20' TVD, Begin 12.00°/100' Build |
| 9,401.86 | 8,974.00 | -1,422.93 | -276.95 | LP, Hold 90.00° Inc at 269.68° Azm |
| 11,474.83 | 8,974.00 | -1,434.48 | -2,349.89 | PP2: 11474.83' MD, 8974.00' TVD |
| 19,316.51 | 8,974.00 | -1,478.19 | -10,191.45 | LTP: 19316.51' MD, 8974.00' TVD |
| 19,391.86 | 8,974.00 | -1,478.61 | -10,266.79 | BHL: 19391.86' MD, 8974.00' TVD |

PERMIAN RESOURCES

# Permian Resources

**Eddy County, NM (NAD83 - NME)**
**Dawson 34 Fed Com**
**Dawson 34 Fed Com 204H**

**OH**
**Plan 1 07-26-23**

# Anticollision Report

**26 July, 2023**

PHOENIX TECHNOLOGY SERVICES

PERMIAN RESOURCES

# Phoenix Technology Services

## Anticollision Report

PHOENIX TECHNOLOGY SERVICES

| | | | |
|---|---|---|---|
| **Company:** | Permian Resources | **Local Co-ordinate Reference:** | Well Dawson 34 Fed Com 204H |
| **Project:** | Eddy County, NM (NAD83 - NME) | **TVD Reference:** | RKB @ 3333.80usft (TBD) |
| **Reference Site:** | Dawson 34 Fed Com | **MD Reference:** | RKB @ 3333.80usft (TBD) |
| **Site Error:** | 0.00 | **North Reference:** | Grid |
| **Reference Well:** | Dawson 34 Fed Com 204H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 1.00 | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | OH | **Database:** | USAEDMDB |
| **Reference Design:** | Plan 1 07-26-23 | **Offset TVD Reference:** | Offset Datum |

| | | | |
|---|---|---|---|
| **Reference** | Plan 1 07-26-23 | | |
| **Filter type:** | NO GLOBAL FILTER: Using user defined selection & filtering criteria | | |
| **Interpolation Method:** | MD + Stations Interval 100.00usft | **Error Model:** | ISCWSA |
| **Depth Range:** | Unlimited | **Scan Method:** | Closest Approach 3D |
| **Results Limited by:** | Max. Cent. Dist. of 1,000.00usft or Max. SF of 4 | **Error Surface:** | Pedal Curve |
| **Warning Levels Evaluated at:** | 2.00 **Sigma** | **Casing Method:** | Not applied |

**Survey Tool Program** **Date** 7/26/2023

| From (usft) | To (usft) | Survey (Wellbore) | Tool Name | Description |
|---|---|---|---|---|
| 0.00 | 19,391.86 | Plan 1 07-26-23 (OH) | MWD+HRGM | OWSG MWD + HRGM |

**Summary**

| Site Name<br>Offset Well - Wellbore - Design | Reference Measured Depth (usft) | Offset Measured Depth (usft) | Distance Between Centers (usft) | Distance Between Ellipses (usft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|
| Dawson 34 Fed Com Offsets | | | | | | |
| Arco Federal 001 - OH - Surveys | 16,058.53 | 8,967.38 | 912.45 | 549.80 | 2.516 | CC, ES, SF |
| Dakota 32 State Fed Com 124H - OH - Surveys | | | | | | Out of range |
| Dakota 32 State Federal Com 134H - OH - Surveys | 19,391.86 | 8,485.57 | 991.64 | 799.21 | 5.153 | CC, ES, SF |
| Dawson 34 Federal Com 123H - OH - Surveys | 3,033.30 | 3,049.61 | 32.79 | 14.88 | 1.830 | CC, ES |
| Dawson 34 Federal Com 123H - OH - Surveys | 3,100.00 | 3,116.10 | 33.41 | 15.02 | 1.817 | SF |
| Dawson 34 Federal Com 124H - OH - Survyes | | | | | | Out of range |
| Dawson 34 Federal Com 133H - OH - Surveys | | | | | | Out of range |
| Dawson 34 Federal Com 134H - OH - Surveys | 9,739.28 | 9,197.03 | 705.74 | 639.75 | 10.695 | CC |
| Dawson 34 Federal Com 134H - OH - Surveys | 19,000.00 | 18,454.32 | 809.07 | 517.45 | 2.774 | ES |
| Dawson 34 Federal Com 134H - OH - Surveys | 19,391.86 | 18,835.00 | 819.19 | 520.52 | 2.743 | SF |
| Dero Federal Com 003 - OH - Surveys | 13,833.95 | 8,945.70 | 933.14 | 623.04 | 3.009 | CC, ES, SF |
| DWU Federal 001 - OH - Surveys | 10,786.89 | 8,954.83 | 911.10 | 653.84 | 3.542 | CC |
| DWU Federal 001 - OH - Surveys | 10,800.00 | 8,954.83 | 911.19 | 653.82 | 3.540 | ES, SF |
| DWU Federal 004 - Wellbore #1 - Surveys | 10,847.94 | 8,940.71 | 269.16 | 13.76 | 1.054 | Level 2 , CC, ES, SF |
| DWU Federal 006 - OH - Surveys | 4,693.13 | 4,618.07 | 420.32 | 282.00 | 3.039 | CC |
| DWU Federal 006 - OH - Surveys | 4,900.00 | 4,819.77 | 422.78 | 280.21 | 2.965 | ES |
| DWU Federal 006 - OH - Surveys | 6,100.00 | 5,991.10 | 523.02 | 341.88 | 2.887 | SF |
| Government An Com 001 - OH - Surveys | | | | | | Out of range |
| Government S 006 - OH - Surveys | | | | | | Out of range |
| Government S Com 009 - OH - Surveys | | | | | | Out of range |
| OXY 33 Federal 001 - OH - Surveys | 14,821.82 | 8,950.44 | 558.79 | 192.94 | 1.527 | CC, ES, SF |
| Shamrock 34 Fed Com 132H - OH - Surveys | 1,626.66 | 1,633.28 | 92.53 | 81.68 | 8.525 | CC, ES |
| Shamrock 34 Fed Com 132H - OH - Surveys | 2,000.00 | 2,002.73 | 105.53 | 92.88 | 8.344 | SF |
| Shamrock 34 Federal Com 122H - OH - Surveys | 1,212.95 | 1,219.46 | 146.61 | 137.93 | 16.885 | CC |
| Shamrock 34 Federal Com 122H - OH - Surveys | 2,000.00 | 2,005.62 | 148.04 | 135.29 | 11.611 | ES |
| Shamrock 34 Federal Com 122H - OH - Surveys | 2,300.00 | 2,305.09 | 157.91 | 143.74 | 11.141 | SF |
| State A 32 Com 003 - OH - Surveys | 19,391.86 | 8,987.87 | 1,031.84 | 722.98 | 3.341 | CC, ES, SF |
| Winchesters Federal 004 - OH - Surveys | | | | | | Out of range |
| Dundee 4 Fed Com | | | | | | |
| Dundee 4 Fed Com 131H - OH / 70546 - Surveys (McVa | | | | | | Out of range |

PERMIAN RESOURCES

# Phoenix Technology Services

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| **Project:** | Eddy County, NM (NAD83 - NME) | **TVD Reference:** | RKB @ 3333.80usft (TBD) |
| **Reference Site:** | Dawson 34 Fed Com | **MD Reference:** | RKB @ 3333.80usft (TBD) |
| **Site Error:** | 0.00 | **North Reference:** | Grid |
| **Reference Well:** | Dawson 34 Fed Com 204H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 1.00 | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | OH | **Database:** | USAEDMDB |
| **Reference Design:** | Plan 1 07-26-23 | **Offset TVD Reference:** | Offset Datum |

**Offset Design** Arco Federal 001 - OH - Surveys — **Offset Site Error:** 0.00 usft

**Survey Program:** 350-INC-ONLY — **Offset Well Error:** 1.00 usft

| Reference Measured Depth (usft) | Reference Vertical Depth (usft) | Offset Measured Depth (usft) | Offset Vertical Depth (usft) | Semi Major Axis Reference (usft) | Semi Major Axis Offset (usft) | Highside Toolface (°) | Offset Wellbore Center +N/-S (usft) | Offset Wellbore Center +E/-W (usft) | Distance Between Centers (usft) | Distance Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 15,300.00 | 8,974.00 | 8,967.35 | 8,966.34 | 149.17 | 196.52 | 90.39 | -547.62 | -6,938.60 | 1,186.56 | 868.48 | 318.08 | 3.730 | |
| 15,400.00 | 8,974.00 | 8,967.36 | 8,966.35 | 151.43 | 196.52 | 90.39 | -547.62 | -6,938.60 | 1,125.26 | 799.82 | 325.44 | 3.458 | |
| 15,500.00 | 8,974.00 | 8,967.36 | 8,966.35 | 153.69 | 196.52 | 90.39 | -547.62 | -6,938.60 | 1,069.82 | 736.88 | 332.93 | 3.213 | |
| 15,600.00 | 8,974.00 | 8,967.37 | 8,966.35 | 155.95 | 196.52 | 90.39 | -547.62 | -6,938.60 | 1,021.18 | 680.85 | 340.33 | 3.001 | |
| 15,700.00 | 8,974.00 | 8,967.37 | 8,966.36 | 158.21 | 196.52 | 90.39 | -547.62 | -6,938.60 | 980.36 | 633.07 | 347.29 | 2.823 | |
| 15,800.00 | 8,974.00 | 8,967.37 | 8,966.36 | 160.48 | 196.52 | 90.39 | -547.62 | -6,938.60 | 948.36 | 594.94 | 353.43 | 2.683 | |
| 15,900.00 | 8,974.00 | 8,967.38 | 8,966.36 | 162.75 | 196.52 | 90.39 | -547.62 | -6,938.60 | 926.12 | 567.79 | 358.32 | 2.585 | |
| 16,000.00 | 8,974.00 | 8,967.38 | 8,966.37 | 165.01 | 196.52 | 90.39 | -547.62 | -6,938.60 | 914.32 | 552.73 | 361.59 | 2.529 | |
| 16,058.53 | 8,974.00 | 8,967.38 | 8,966.37 | 166.34 | 196.52 | 90.39 | -547.62 | -6,938.60 | 912.45 | 549.80 | 362.65 | 2.516 | CC, ES, SF |
| 16,100.00 | 8,974.00 | 8,967.38 | 8,966.37 | 167.28 | 196.52 | 90.39 | -547.62 | -6,938.60 | 913.39 | 550.39 | 363.00 | 2.516 | |
| 16,200.00 | 8,974.00 | 8,967.39 | 8,966.38 | 169.56 | 196.52 | 90.39 | -547.62 | -6,938.60 | 923.35 | 560.89 | 362.46 | 2.547 | |
| 16,300.00 | 8,974.00 | 8,967.39 | 8,966.38 | 171.83 | 196.52 | 90.39 | -547.62 | -6,938.60 | 943.86 | 583.72 | 360.14 | 2.621 | |
| 16,400.00 | 8,974.00 | 8,967.40 | 8,966.38 | 174.10 | 196.52 | 90.39 | -547.62 | -6,938.60 | 974.25 | 617.93 | 356.32 | 2.734 | |
| 16,500.00 | 8,974.00 | 8,967.40 | 8,966.39 | 176.38 | 196.52 | 90.39 | -547.62 | -6,938.60 | 1,013.64 | 662.25 | 351.39 | 2.885 | |
| 16,600.00 | 8,974.00 | 8,967.40 | 8,966.39 | 178.65 | 196.52 | 90.39 | -547.62 | -6,938.60 | 1,061.02 | 715.28 | 345.73 | 3.069 | |
| 16,700.00 | 8,974.00 | 8,967.41 | 8,966.40 | 180.93 | 196.52 | 90.39 | -547.62 | -6,938.60 | 1,115.37 | 775.67 | 339.69 | 3.283 | |
| 16,800.00 | 8,974.00 | 8,967.41 | 8,966.40 | 183.21 | 196.52 | 90.39 | -547.62 | -6,938.60 | 1,175.73 | 842.18 | 333.55 | 3.525 | |
| 16,900.00 | 8,974.00 | 8,967.42 | 8,966.40 | 185.49 | 196.52 | 90.39 | -547.62 | -6,938.60 | 1,241.22 | 913.73 | 327.50 | 3.790 | |

PERMIAN RESOURCES

# Phoenix Technology Services

## Anticollision Report

PHOENIX TECHNOLOGY SERVICES

| | | | |
|---|---|---|---|
| **Company:** | Permian Resources | **Local Co-ordinate Reference:** | Well Dawson 34 Fed Com 204H |
| **Project:** | Eddy County, NM (NAD83 - NME) | **TVD Reference:** | RKB @ 3333.80usft (TBD) |
| **Reference Site:** | Dawson 34 Fed Com | **MD Reference:** | RKB @ 3333.80usft (TBD) |
| **Site Error:** | 0.00 | **North Reference:** | Grid |
| **Reference Well:** | Dawson 34 Fed Com 204H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 1.00 | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | OH | **Database:** | USAEDMDB |
| **Reference Design:** | Plan 1 07-26-23 | **Offset TVD Reference:** | Offset Datum |

**Offset Design** Dakota 32 State Federal Com 134H - OH - Surveys — **Offset Site Error:** 0.00 usft

**Survey Program:** 14-MWD+IFR1+SAG+FDIR — **Offset Well Error:** 1.00 usft

| Reference Measured Depth (usft) | Reference Vertical Depth (usft) | Offset Measured Depth (usft) | Offset Vertical Depth (usft) | Semi Major Axis Reference (usft) | Semi Major Axis Offset (usft) | Highside Toolface (°) | Offset Wellbore Center +N/-S (usft) | Offset Wellbore Center +E/-W (usft) | Distance Between Centers (usft) | Distance Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 19,391.86 | 8,974.00 | 8,485.57 | 8,345.14 | 242.55 | 30.49 | -43.21 | -2,106.50 | -10,648.19 | 991.64 | 799.21 | 192.43 | 5.153 | CC, ES, SF |

CC - Min center to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

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|---|---|---|---|
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| **Project:** | Eddy County, NM (NAD83 - NME) | **TVD Reference:** | RKB @ 3333.80usft (TBD) |
| **Reference Site:** | Dawson 34 Fed Com | **MD Reference:** | RKB @ 3333.80usft (TBD) |
| **Site Error:** | 0.00 | **North Reference:** | Grid |
| **Reference Well:** | Dawson 34 Fed Com 204H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 1.00 | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | OH | **Database:** | USAEDMDB |
| **Reference Design:** | Plan 1 07-26-23 | **Offset TVD Reference:** | Offset Datum |

**Offset Design** Dawson 34 Federal Com 123H - OH - Surveys — **Offset Site Error:** 0.00 usft

**Survey Program:** 14-MWD+IFR1+SAG+FDIR — **Offset Well Error:** 1.00 usft

| Reference Measured Depth (usft) | Reference Vertical Depth (usft) | Offset Measured Depth (usft) | Offset Vertical Depth (usft) | Semi Major Axis Reference (usft) | Semi Major Axis Offset (usft) | Highside Toolface (°) | Offset Wellbore Center +N/-S (usft) | Offset Wellbore Center +E/-W (usft) | Distance Between Centers (usft) | Distance Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.00 | 0.00 | 5.21 | 5.21 | 1.00 | 1.00 | 1.76 | 44.97 | 1.38 | 44.99 | | | | |
| 100.00 | 100.00 | 105.33 | 105.33 | 1.32 | 1.03 | 1.66 | 44.81 | 1.30 | 44.83 | 42.48 | 2.35 | 19.098 | |
| 200.00 | 200.00 | 205.43 | 205.43 | 1.79 | 1.17 | 1.36 | 44.38 | 1.06 | 44.40 | 41.44 | 2.96 | 14.994 | |
| 296.16 | 296.16 | 301.36 | 301.36 | 2.15 | 1.38 | 1.14 | 44.09 | 0.88 | 44.10 | 40.57 | 3.53 | 12.490 | |
| 300.00 | 300.00 | 305.18 | 305.17 | 2.17 | 1.39 | 1.14 | 44.09 | 0.88 | 44.10 | 40.55 | 3.55 | 12.407 | |
| 400.00 | 400.00 | 404.64 | 404.63 | 2.49 | 1.63 | 2.06 | 44.83 | 1.61 | 44.87 | 40.74 | 4.12 | 10.879 | |
| 500.00 | 500.00 | 504.48 | 504.46 | 2.78 | 1.92 | 3.05 | 46.26 | 2.46 | 46.33 | 41.64 | 4.69 | 9.871 | |
| 600.00 | 600.00 | 604.46 | 604.41 | 3.04 | 2.22 | 4.49 | 47.83 | 3.76 | 47.99 | 42.73 | 5.26 | 9.121 | |
| 700.00 | 700.00 | 704.44 | 704.37 | 3.28 | 2.54 | 6.71 | 49.27 | 5.80 | 49.62 | 43.80 | 5.82 | 8.520 | |
| 800.00 | 800.00 | 804.27 | 804.15 | 3.51 | 2.87 | 9.28 | 50.76 | 8.29 | 51.44 | 45.06 | 6.38 | 8.063 | |
| 900.00 | 900.00 | 904.15 | 903.99 | 3.73 | 3.20 | 11.45 | 52.57 | 10.65 | 53.65 | 46.72 | 6.93 | 7.740 | |
| 1,000.00 | 1,000.00 | 1,004.14 | 1,003.94 | 3.94 | 3.54 | 13.36 | 54.36 | 12.91 | 55.88 | 48.41 | 7.48 | 7.474 | |
| 1,100.00 | 1,100.00 | 1,104.08 | 1,103.84 | 4.13 | 3.89 | 14.60 | 56.30 | 14.66 | 58.19 | 50.18 | 8.02 | 7.258 | |
| 1,200.00 | 1,200.00 | 1,204.08 | 1,203.82 | 4.32 | 4.23 | 15.45 | 58.32 | 16.12 | 60.52 | 51.97 | 8.55 | 7.076 | |
| 1,300.00 | 1,300.00 | 1,304.02 | 1,303.72 | 4.51 | 4.58 | 16.28 | 60.28 | 17.60 | 62.82 | 53.73 | 9.08 | 6.915 | |
| 1,400.00 | 1,400.00 | 1,403.95 | 1,403.61 | 4.68 | 4.93 | 16.93 | 62.36 | 18.98 | 65.21 | 55.60 | 9.61 | 6.785 | |
| 1,500.00 | 1,500.00 | 1,503.54 | 1,503.18 | 4.86 | 5.27 | 17.54 | 64.69 | 20.45 | 67.88 | 57.75 | 10.13 | 6.701 | |
| 1,600.00 | 1,600.00 | 1,603.68 | 1,603.27 | 5.03 | 5.63 | 18.13 | 67.27 | 22.02 | 70.81 | 60.16 | 10.65 | 6.649 | |
| 1,700.00 | 1,700.00 | 1,703.56 | 1,703.11 | 5.19 | 5.98 | 18.67 | 69.65 | 23.53 | 73.54 | 62.38 | 11.17 | 6.587 | |
| 1,800.00 | 1,800.00 | 1,803.53 | 1,803.04 | 5.35 | 6.33 | 19.02 | 72.21 | 24.89 | 76.41 | 64.73 | 11.68 | 6.543 | |
| 1,900.00 | 1,900.00 | 1,903.87 | 1,903.34 | 5.51 | 6.68 | 19.20 | 74.64 | 25.98 | 79.05 | 66.86 | 12.19 | 6.485 | |
| 2,000.00 | 2,000.00 | 2,004.74 | 2,004.19 | 5.66 | 7.04 | 19.76 | 76.08 | 27.34 | 80.85 | 68.15 | 12.70 | 6.366 | |
| 2,100.00 | 2,099.99 | 2,107.36 | 2,106.77 | 5.79 | 7.39 | -150.21 | 74.86 | 29.42 | 81.21 | 68.03 | 13.18 | 6.163 | |
| 2,200.00 | 2,199.96 | 2,210.29 | 2,209.59 | 5.90 | 7.74 | -148.92 | 70.25 | 31.01 | 79.88 | 66.27 | 13.62 | 5.866 | |
| 2,300.00 | 2,299.86 | 2,314.05 | 2,312.94 | 6.04 | 8.09 | -147.97 | 61.19 | 31.18 | 75.61 | 61.57 | 14.04 | 5.386 | |
| 2,400.00 | 2,399.68 | 2,416.84 | 2,414.75 | 6.19 | 8.43 | -146.30 | 47.13 | 30.91 | 68.12 | 53.66 | 14.46 | 4.712 | |
| 2,500.00 | 2,499.37 | 2,517.35 | 2,513.78 | 6.36 | 8.77 | -143.69 | 29.95 | 30.69 | 59.07 | 44.15 | 14.92 | 3.960 | |
| 2,600.00 | 2,598.90 | 2,617.03 | 2,611.93 | 6.56 | 9.10 | -141.10 | 12.55 | 30.57 | 51.27 | 35.86 | 15.41 | 3.326 | |
| 2,700.00 | 2,698.26 | 2,717.09 | 2,710.40 | 6.77 | 9.45 | -139.30 | -5.20 | 30.06 | 44.47 | 28.55 | 15.91 | 2.794 | |
| 2,800.00 | 2,797.40 | 2,816.79 | 2,808.52 | 7.01 | 9.79 | -139.29 | -22.86 | 29.01 | 38.75 | 22.30 | 16.45 | 2.355 | |
| 2,900.00 | 2,896.30 | 2,916.58 | 2,906.88 | 7.28 | 10.14 | -142.68 | -39.62 | 27.43 | 34.91 | 17.88 | 17.03 | 2.049 | |
| 3,000.00 | 2,994.93 | 3,016.39 | 3,005.30 | 7.56 | 10.49 | -148.94 | -56.08 | 25.72 | 32.94 | 15.25 | 17.68 | 1.863 | |
| 3,033.30 | 3,027.71 | 3,049.61 | 3,038.07 | 7.66 | 10.60 | -151.44 | -61.50 | 25.21 | 32.79 | 14.88 | 17.92 | 1.830 | CC, ES |
| 3,100.00 | 3,093.26 | 3,116.10 | 3,103.69 | 7.86 | 10.84 | -156.77 | -72.18 | 24.31 | 33.41 | 15.02 | 18.39 | 1.817 | SF |
| 3,200.00 | 3,191.25 | 3,216.60 | 3,202.81 | 8.19 | 11.19 | -162.98 | -88.77 | 24.16 | 35.98 | 16.90 | 19.08 | 1.886 | |
| 3,278.16 | 3,267.59 | 3,294.98 | 3,279.65 | 8.43 | 11.48 | -162.33 | -103.88 | 27.35 | 37.60 | 18.02 | 19.58 | 1.921 | |
| 3,300.00 | 3,288.88 | 3,316.57 | 3,300.81 | 8.49 | 11.55 | -161.84 | -107.98 | 28.49 | 38.30 | 18.58 | 19.72 | 1.942 | |
| 3,400.00 | 3,386.41 | 3,414.88 | 3,397.57 | 8.86 | 11.91 | -160.38 | -124.56 | 33.75 | 43.67 | 23.20 | 20.47 | 2.133 | |
| 3,500.00 | 3,483.93 | 3,515.31 | 3,496.72 | 9.22 | 12.27 | -159.50 | -139.52 | 39.27 | 51.04 | 29.89 | 21.16 | 2.413 | |
| 3,600.00 | 3,581.45 | 3,614.76 | 3,594.64 | 9.60 | 12.63 | -158.62 | -156.08 | 44.59 | 56.66 | 34.79 | 21.87 | 2.591 | |
| 3,700.00 | 3,678.97 | 3,713.03 | 3,691.80 | 9.98 | 12.99 | -158.66 | -169.93 | 49.59 | 64.73 | 42.12 | 22.62 | 2.862 | |
| 3,800.00 | 3,776.49 | 3,817.23 | 3,794.57 | 10.37 | 13.37 | -158.97 | -186.35 | 54.13 | 71.04 | 47.76 | 23.28 | 3.051 | |
| 3,900.00 | 3,874.02 | 3,915.86 | 3,891.29 | 10.77 | 13.74 | -159.04 | -205.26 | 57.93 | 73.85 | 49.79 | 24.06 | 3.070 | |
| 4,000.00 | 3,971.54 | 4,014.52 | 3,988.50 | 11.18 | 14.10 | -159.26 | -221.60 | 62.07 | 79.32 | 54.48 | 24.84 | 3.193 | |
| 4,100.00 | 4,069.06 | 4,116.50 | 4,088.95 | 11.59 | 14.47 | -159.72 | -238.77 | 65.92 | 84.43 | 58.86 | 25.58 | 3.301 | |
| 4,200.00 | 4,166.58 | 4,220.66 | 4,190.55 | 12.01 | 14.86 | -159.48 | -261.31 | 69.79 | 84.71 | 58.48 | 26.24 | 3.229 | |

CC - Min center to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

PERMIAN RESOURCES

# Phoenix Technology Services

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|---|---|---|---|
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| **Reference Site:** | Dawson 34 Fed Com | **MD Reference:** | RKB @ 3333.80usft (TBD) |
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| **Reference Well:** | Dawson 34 Fed Com 204H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 1.00 | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | OH | **Database:** | USAEDMDB |
| **Reference Design:** | Plan 1 07-26-23 | **Offset TVD Reference:** | Offset Datum |

**Offset Design** Dawson 34 Federal Com 123H - OH - Surveys — **Offset Site Error:** 0.00 usft

**Survey Program:** 14-MWD+IFR1+SAG+FDIR — **Offset Well Error:** 1.00 usft

| Reference Measured Depth (usft) | Reference Vertical Depth (usft) | Offset Measured Depth (usft) | Offset Vertical Depth (usft) | Semi Major Axis Reference (usft) | Semi Major Axis Offset (usft) | Highside Toolface (°) | Offset Wellbore Center +N/-S (usft) | Offset Wellbore Center +E/-W (usft) | Distance Between Centers (usft) | Distance Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4,238.16 | 4,203.80 | 4,257.57 | 4,226.47 | 12.17 | 15.00 | -159.36 | -269.71 | 71.12 | 84.40 | 57.84 | 26.56 | 3.177 | |
| 4,300.00 | 4,264.10 | 4,317.00 | 4,284.61 | 12.43 | 15.22 | -159.44 | -281.82 | 73.19 | 85.34 | 58.24 | 27.10 | 3.149 | |
| 4,400.00 | 4,361.63 | 4,416.23 | 4,382.03 | 12.86 | 15.59 | -158.96 | -300.07 | 77.99 | 89.11 | 61.24 | 27.87 | 3.197 | |
| 4,500.00 | 4,459.15 | 4,517.87 | 4,481.34 | 13.29 | 15.98 | -157.24 | -320.62 | 84.56 | 91.45 | 62.87 | 28.57 | 3.201 | |
| 4,600.00 | 4,556.67 | 4,615.61 | 4,576.99 | 13.72 | 16.35 | -155.86 | -339.79 | 90.73 | 94.43 | 65.09 | 29.34 | 3.219 | |
| 4,700.00 | 4,654.19 | 4,712.43 | 4,672.26 | 14.16 | 16.71 | -155.18 | -356.02 | 96.57 | 100.15 | 70.04 | 30.11 | 3.326 | |
| 4,800.00 | 4,751.71 | 4,814.72 | 4,773.18 | 14.60 | 17.09 | -154.72 | -371.41 | 102.94 | 107.64 | 76.77 | 30.87 | 3.487 | |
| 4,900.00 | 4,849.24 | 4,919.35 | 4,875.07 | 15.04 | 17.49 | -152.58 | -393.76 | 110.83 | 109.33 | 77.82 | 31.51 | 3.470 | |
| 5,000.00 | 4,946.76 | 5,017.25 | 4,970.33 | 15.48 | 17.86 | -150.38 | -414.92 | 118.66 | 111.14 | 78.92 | 32.22 | 3.449 | |
| 5,100.00 | 5,044.28 | 5,115.09 | 5,065.87 | 15.93 | 18.23 | -148.47 | -434.37 | 126.77 | 114.83 | 81.91 | 32.92 | 3.488 | |
| 5,200.00 | 5,141.80 | 5,212.67 | 5,161.55 | 16.38 | 18.60 | -147.10 | -451.82 | 134.79 | 120.48 | 86.85 | 33.63 | 3.583 | |
| 5,300.00 | 5,239.32 | 5,308.97 | 5,256.44 | 16.83 | 18.97 | -146.60 | -466.46 | 142.16 | 128.41 | 94.04 | 34.37 | 3.736 | |
| 5,400.00 | 5,336.85 | 5,409.21 | 5,355.58 | 17.28 | 19.34 | -146.82 | -479.54 | 149.04 | 137.99 | 102.83 | 35.17 | 3.924 | |
| 5,500.00 | 5,434.37 | 5,513.94 | 5,458.88 | 17.73 | 19.73 | -147.00 | -495.59 | 155.24 | 145.11 | 109.14 | 35.97 | 4.034 | |
| 5,600.00 | 5,531.89 | 5,612.27 | 5,555.68 | 18.19 | 20.10 | -147.15 | -512.09 | 160.37 | 150.61 | 113.84 | 36.77 | 4.096 | |
| 5,700.00 | 5,629.41 | 5,710.30 | 5,652.64 | 18.65 | 20.47 | -148.20 | -526.02 | 163.91 | 157.84 | 120.21 | 37.62 | 4.195 | |
| 5,800.00 | 5,726.93 | 5,814.17 | 5,755.31 | 19.10 | 20.86 | -149.51 | -541.61 | 166.43 | 163.94 | 125.43 | 38.51 | 4.257 | |
| 5,900.00 | 5,824.46 | 5,909.72 | 5,849.68 | 19.56 | 21.22 | -150.68 | -556.33 | 168.43 | 169.64 | 130.27 | 39.37 | 4.309 | |
| 6,000.00 | 5,921.98 | 6,012.59 | 5,951.67 | 20.02 | 21.60 | -152.44 | -569.69 | 169.55 | 177.40 | 137.11 | 40.30 | 4.402 | |
| 6,100.00 | 6,019.50 | 6,119.61 | 6,056.71 | 20.49 | 22.00 | -153.16 | -589.98 | 171.82 | 179.73 | 138.60 | 41.13 | 4.370 | |
| 6,200.00 | 6,117.02 | 6,212.19 | 6,147.95 | 20.95 | 22.35 | -153.96 | -605.54 | 173.81 | 184.25 | 142.24 | 42.00 | 4.386 | |
| 6,300.00 | 6,214.54 | 6,318.54 | 6,252.73 | 21.41 | 22.75 | -154.51 | -623.35 | 177.17 | 189.22 | 146.38 | 42.84 | 4.417 | |
| 6,400.00 | 6,312.07 | 6,414.69 | 6,347.15 | 21.88 | 23.12 | -154.65 | -641.13 | 180.91 | 192.69 | 149.02 | 43.67 | 4.412 | |
| 6,500.00 | 6,409.59 | 6,516.57 | 6,447.30 | 22.34 | 23.51 | -154.60 | -659.11 | 185.79 | 197.23 | 152.75 | 44.48 | 4.434 | |
| 6,600.00 | 6,507.11 | 6,612.58 | 6,541.57 | 22.81 | 23.87 | -154.34 | -676.49 | 191.06 | 201.53 | 156.26 | 45.27 | 4.451 | |
| 6,700.00 | 6,604.63 | 6,710.00 | 6,637.68 | 23.27 | 24.24 | -154.46 | -691.69 | 195.77 | 208.06 | 161.97 | 46.09 | 4.514 | |
| 6,800.00 | 6,702.15 | 6,813.00 | 6,739.13 | 23.74 | 24.63 | -154.50 | -708.77 | 200.75 | 213.63 | 166.71 | 46.91 | 4.554 | |
| 6,900.00 | 6,799.68 | 6,903.80 | 6,828.98 | 24.21 | 24.97 | -155.28 | -721.54 | 202.82 | 220.94 | 173.19 | 47.74 | 4.628 | |
| 7,000.00 | 6,897.20 | 7,021.41 | 6,945.13 | 24.68 | 25.39 | -159.30 | -735.66 | 193.45 | 228.03 | 179.17 | 48.87 | 4.666 | |
| 7,100.00 | 6,994.72 | 7,132.60 | 7,049.43 | 25.15 | 25.75 | -168.90 | -751.69 | 159.21 | 230.23 | 180.07 | 50.15 | 4.591 | |
| 7,147.53 | 7,041.07 | 7,187.28 | 7,097.00 | 25.37 | 25.91 | -175.40 | -762.83 | 134.73 | 230.03 | 179.32 | 50.71 | 4.536 | |
| 7,200.00 | 7,092.24 | 7,221.61 | 7,125.33 | 25.62 | 26.00 | 179.89 | -770.01 | 116.72 | 232.50 | 181.35 | 51.16 | 4.545 | |
| 7,300.00 | 7,189.77 | 7,288.76 | 7,178.52 | 26.09 | 26.15 | 170.22 | -780.38 | 77.09 | 252.58 | 201.91 | 50.67 | 4.985 | |
| 7,400.00 | 7,287.29 | 7,351.43 | 7,226.61 | 26.56 | 26.29 | 161.83 | -788.34 | 37.75 | 288.46 | 239.51 | 48.95 | 5.893 | |
| 7,500.00 | 7,384.81 | 7,415.05 | 7,273.10 | 27.03 | 26.41 | 154.08 | -796.24 | -4.96 | 336.24 | 289.24 | 47.01 | 7.153 | |
| 7,600.00 | 7,482.33 | 7,469.62 | 7,309.85 | 27.50 | 26.51 | 147.92 | -803.78 | -44.56 | 393.69 | 348.83 | 44.86 | 8.775 | |
| 7,700.00 | 7,579.85 | 7,514.57 | 7,339.02 | 27.97 | 26.59 | 143.52 | -809.24 | -78.31 | 458.70 | 415.86 | 42.84 | 10.708 | |
| 7,800.00 | 7,677.38 | 7,544.66 | 7,357.46 | 28.45 | 26.64 | 140.90 | -811.96 | -101.93 | 530.47 | 489.70 | 40.77 | 13.011 | |
| 7,900.00 | 7,774.90 | 7,587.19 | 7,382.01 | 28.92 | 26.70 | 137.53 | -815.45 | -136.49 | 606.92 | 567.32 | 39.60 | 15.326 | |
| 8,000.00 | 7,872.42 | 7,614.64 | 7,397.24 | 29.39 | 26.74 | 135.57 | -817.59 | -159.22 | 686.45 | 648.15 | 38.30 | 17.922 | |
| 8,100.00 | 7,969.94 | 7,635.57 | 7,408.00 | 29.87 | 26.77 | 134.13 | -819.30 | -177.08 | 769.15 | 732.01 | 37.14 | 20.712 | |
| 8,200.00 | 8,067.46 | 7,649.14 | 7,414.54 | 30.34 | 26.79 | 133.22 | -820.43 | -188.92 | 854.52 | 818.46 | 36.06 | 23.695 | |
| 8,300.00 | 8,164.99 | 7,662.71 | 7,420.72 | 30.82 | 26.80 | 132.34 | -821.47 | -200.96 | 942.05 | 906.80 | 35.24 | 26.729 | |

PERMIAN RESOURCES

# Phoenix Technology Services

## Anticollision Report

PHOENIX TECHNOLOGY SERVICES

| | | | |
|---|---|---|---|
| **Company:** | Permian Resources | **Local Co-ordinate Reference:** | Well Dawson 34 Fed Com 204H |
| **Project:** | Eddy County, NM (NAD83 - NME) | **TVD Reference:** | RKB @ 3333.80usft (TBD) |
| **Reference Site:** | Dawson 34 Fed Com | **MD Reference:** | RKB @ 3333.80usft (TBD) |
| **Site Error:** | 0.00 | **North Reference:** | Grid |
| **Reference Well:** | Dawson 34 Fed Com 204H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 1.00 | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | OH | **Database:** | USAEDMDB |
| **Reference Design:** | Plan 1 07-26-23 | **Offset TVD Reference:** | Offset Datum |

**Offset Design** Dawson 34 Federal Com 134H - OH - Surveys — **Offset Site Error:** 0.00 usft

**Survey Program:** 429-MWD+IFR1+SAG+FDIR — **Offset Well Error:** 1.00 usft

| Reference Measured Depth (usft) | Reference Vertical Depth (usft) | Offset Measured Depth (usft) | Offset Vertical Depth (usft) | Semi Major Axis Reference (usft) | Semi Major Axis Offset (usft) | Highside Toolface (°) | Offset Wellbore Center +N/-S (usft) | Offset Wellbore Center +E/-W (usft) | Distance Between Centers (usft) | Distance Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7,400.00 | 7,287.29 | 7,323.00 | 7,292.15 | 26.56 | 25.24 | 6.03 | -2,029.48 | 206.50 | 988.79 | 937.11 | 51.68 | 19.132 | |
| 7,500.00 | 7,384.81 | 7,417.00 | 7,386.14 | 27.03 | 25.55 | 6.23 | -2,028.85 | 205.42 | 966.09 | 913.61 | 52.48 | 18.409 | |
| 7,600.00 | 7,482.33 | 7,506.62 | 7,475.76 | 27.50 | 25.85 | 6.43 | -2,028.97 | 204.26 | 944.15 | 890.87 | 53.28 | 17.722 | |
| 7,700.00 | 7,579.85 | 7,604.14 | 7,573.27 | 27.97 | 26.17 | 6.65 | -2,029.31 | 203.28 | 922.47 | 868.40 | 54.06 | 17.062 | |
| 7,800.00 | 7,677.38 | 7,700.40 | 7,669.52 | 28.45 | 26.49 | 6.87 | -2,029.71 | 202.32 | 900.86 | 846.00 | 54.85 | 16.423 | |
| 7,900.00 | 7,774.90 | 7,800.89 | 7,770.01 | 28.92 | 26.83 | 7.13 | -2,030.06 | 201.13 | 879.20 | 823.56 | 55.64 | 15.802 | |
| 8,000.00 | 7,872.42 | 7,908.08 | 7,877.19 | 29.39 | 27.19 | 7.41 | -2,029.55 | 199.98 | 856.75 | 800.34 | 56.41 | 15.188 | |
| 8,100.00 | 7,969.94 | 7,993.80 | 7,962.90 | 29.87 | 27.48 | 7.64 | -2,029.29 | 199.15 | 834.49 | 777.26 | 57.23 | 14.582 | |
| 8,200.00 | 8,067.46 | 8,090.39 | 8,059.44 | 30.34 | 27.80 | 8.05 | -2,029.87 | 196.38 | 813.10 | 755.08 | 58.01 | 14.016 | |
| 8,300.00 | 8,164.99 | 8,198.56 | 8,165.85 | 30.82 | 28.15 | 9.61 | -2,029.49 | 178.67 | 790.83 | 732.11 | 58.72 | 13.469 | |
| 8,400.00 | 8,262.51 | 8,282.64 | 8,245.19 | 31.29 | 28.41 | 11.94 | -2,028.75 | 150.94 | 769.35 | 709.92 | 59.42 | 12.947 | |
| 8,500.00 | 8,360.03 | 8,350.11 | 8,305.88 | 31.77 | 28.60 | 14.41 | -2,028.90 | 121.62 | 751.72 | 691.67 | 60.05 | 12.518 | |
| 8,600.00 | 8,457.55 | 8,405.47 | 8,351.75 | 32.24 | 28.75 | 16.98 | -2,029.69 | 90.69 | 740.36 | 679.92 | 60.44 | 12.249 | |
| 8,636.55 | 8,493.19 | 8,423.25 | 8,365.74 | 32.41 | 28.79 | 17.89 | -2,030.14 | 79.72 | 738.18 | 677.70 | 60.48 | 12.205 | |
| 8,650.00 | 8,506.32 | 8,429.66 | 8,370.68 | 32.47 | 28.81 | 11.02 | -2,030.33 | 75.67 | 737.64 | 677.15 | 60.49 | 12.195 | |
| 8,675.00 | 8,530.70 | 8,441.66 | 8,379.83 | 32.58 | 28.84 | -1.64 | -2,030.73 | 67.91 | 736.86 | 676.38 | 60.48 | 12.183 | |
| 8,700.00 | 8,555.02 | 8,453.78 | 8,388.90 | 32.69 | 28.87 | -13.09 | -2,031.18 | 59.88 | 736.38 | 675.92 | 60.46 | 12.180 | |
| 8,715.00 | 8,569.56 | 8,461.11 | 8,394.30 | 32.74 | 28.89 | -19.04 | -2,031.48 | 54.92 | 736.22 | 675.79 | 60.43 | 12.182 | |
| 8,725.00 | 8,579.22 | 8,480.00 | 8,407.90 | 32.78 | 28.94 | -21.96 | -2,032.34 | 41.85 | 736.39 | 675.93 | 60.46 | 12.181 | |
| 8,745.51 | 8,598.93 | 8,480.00 | 8,407.90 | 32.85 | 28.94 | -28.74 | -2,032.34 | 41.85 | 736.19 | 675.81 | 60.38 | 12.193 | |
| 8,750.00 | 8,603.22 | 8,480.00 | 8,407.90 | 32.86 | 28.94 | -30.05 | -2,032.34 | 41.85 | 736.20 | 675.84 | 60.36 | 12.197 | |
| 8,775.00 | 8,626.95 | 8,494.22 | 8,417.87 | 32.93 | 28.97 | -35.80 | -2,033.03 | 31.73 | 736.42 | 676.13 | 60.29 | 12.215 | |
| 8,800.00 | 8,650.37 | 8,510.67 | 8,429.16 | 33.00 | 29.01 | -40.13 | -2,033.81 | 19.79 | 736.72 | 676.50 | 60.22 | 12.234 | |
| 8,825.00 | 8,673.39 | 8,527.21 | 8,440.25 | 33.05 | 29.05 | -43.45 | -2,034.57 | 7.55 | 737.07 | 676.94 | 60.13 | 12.257 | |
| 8,850.00 | 8,695.96 | 8,539.62 | 8,448.38 | 33.10 | 29.08 | -46.17 | -2,035.12 | -1.81 | 737.48 | 677.46 | 60.02 | 12.286 | |
| 8,875.00 | 8,718.01 | 8,560.50 | 8,461.71 | 33.14 | 29.13 | -48.03 | -2,036.03 | -17.85 | 737.87 | 677.91 | 59.95 | 12.307 | |
| 8,900.00 | 8,739.49 | 8,575.00 | 8,470.71 | 33.17 | 29.16 | -49.68 | -2,036.65 | -29.21 | 738.26 | 678.41 | 59.85 | 12.335 | |
| 8,925.00 | 8,760.34 | 8,592.30 | 8,481.16 | 33.21 | 29.20 | -50.92 | -2,037.40 | -42.98 | 738.63 | 678.87 | 59.76 | 12.360 | |
| 8,950.00 | 8,780.49 | 8,607.69 | 8,490.20 | 33.24 | 29.24 | -51.98 | -2,038.11 | -55.40 | 739.00 | 679.33 | 59.67 | 12.386 | |
| 8,975.00 | 8,799.90 | 8,623.17 | 8,499.07 | 33.27 | 29.27 | -52.84 | -2,038.88 | -68.08 | 739.34 | 679.76 | 59.58 | 12.409 | |
| 9,000.00 | 8,818.51 | 8,638.75 | 8,507.75 | 33.29 | 29.31 | -53.57 | -2,039.69 | -80.99 | 739.63 | 680.13 | 59.51 | 12.430 | |
| 9,025.00 | 8,836.27 | 8,670.00 | 8,524.40 | 33.32 | 29.38 | -53.89 | -2,041.46 | -107.37 | 740.12 | 680.58 | 59.53 | 12.432 | |
| 9,043.54 | 8,848.86 | 8,670.00 | 8,524.40 | 33.35 | 29.38 | -54.51 | -2,041.46 | -107.37 | 740.00 | 680.56 | 59.43 | 12.451 | |
| 9,050.00 | 8,853.12 | 8,670.00 | 8,524.40 | 33.36 | 29.38 | -54.71 | -2,041.46 | -107.37 | 740.01 | 680.61 | 59.40 | 12.458 | |
| 9,075.00 | 8,869.04 | 8,690.76 | 8,534.95 | 33.39 | 29.43 | -55.12 | -2,042.65 | -125.21 | 739.99 | 680.59 | 59.40 | 12.457 | |
| 9,100.00 | 8,883.96 | 8,711.37 | 8,545.07 | 33.43 | 29.48 | -55.51 | -2,043.73 | -143.13 | 739.71 | 680.28 | 59.42 | 12.448 | |
| 9,125.00 | 8,897.85 | 8,732.00 | 8,554.85 | 33.47 | 29.52 | -55.90 | -2,044.71 | -161.27 | 739.16 | 679.69 | 59.47 | 12.430 | |
| 9,150.00 | 8,910.68 | 8,752.66 | 8,564.28 | 33.52 | 29.57 | -56.29 | -2,045.59 | -179.62 | 738.33 | 678.80 | 59.53 | 12.402 | |
| 9,175.00 | 8,922.40 | 8,764.00 | 8,569.30 | 33.58 | 29.60 | -56.74 | -2,046.03 | -189.79 | 737.29 | 677.71 | 59.58 | 12.375 | |
| 9,200.00 | 8,932.98 | 8,787.73 | 8,579.41 | 33.65 | 29.65 | -57.15 | -2,046.98 | -211.23 | 735.98 | 676.27 | 59.71 | 12.326 | |
| 9,225.00 | 8,942.40 | 8,804.10 | 8,586.05 | 33.73 | 29.69 | -57.60 | -2,047.68 | -226.18 | 734.60 | 674.76 | 59.84 | 12.276 | |
| 9,250.00 | 8,950.64 | 8,820.47 | 8,592.41 | 33.81 | 29.73 | -58.06 | -2,048.43 | -241.24 | 733.08 | 673.08 | 60.00 | 12.218 | |
| 9,275.00 | 8,957.65 | 8,836.82 | 8,598.49 | 33.91 | 29.77 | -58.54 | -2,049.23 | -256.41 | 731.44 | 671.25 | 60.19 | 12.152 | |
| 9,300.00 | 8,963.44 | 8,859.00 | 8,606.28 | 34.02 | 29.82 | -59.10 | -2,050.37 | -277.13 | 729.72 | 669.29 | 60.43 | 12.075 | |
| 9,325.00 | 8,967.98 | 8,871.05 | 8,610.26 | 34.14 | 29.85 | -59.58 | -2,050.98 | -288.49 | 727.81 | 667.14 | 60.67 | 11.996 | |
| 9,350.00 | 8,971.26 | 8,889.86 | 8,615.99 | 34.27 | 29.89 | -60.14 | -2,051.79 | -306.39 | 725.76 | 664.80 | 60.96 | 11.906 | |

PERMIAN RESOURCES

# Phoenix Technology Services

## Anticollision Report

PHOENIX TECHNOLOGY SERVICES

| | | | |
|---|---|---|---|
| **Company:** | Permian Resources | **Local Co-ordinate Reference:** | Well Dawson 34 Fed Com 204H |
| **Project:** | Eddy County, NM (NAD83 - NME) | **TVD Reference:** | RKB @ 3333.80usft (TBD) |
| **Reference Site:** | Dawson 34 Fed Com | **MD Reference:** | RKB @ 3333.80usft (TBD) |
| **Site Error:** | 0.00 | **North Reference:** | Grid |
| **Reference Well:** | Dawson 34 Fed Com 204H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 1.00 | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | OH | **Database:** | USAEDMDB |
| **Reference Design:** | Plan 1 07-26-23 | **Offset TVD Reference:** | Offset Datum |

**Offset Design** Dawson 34 Federal Com 134H - OH - Surveys — **Offset Site Error:** 0.00 usft

**Survey Program:** 429-MWD+IFR1+SAG+FDIR — **Offset Well Error:** 1.00 usft

| Reference Measured Depth (usft) | Reference Vertical Depth (usft) | Offset Measured Depth (usft) | Offset Vertical Depth (usft) | Semi Major Axis Reference (usft) | Semi Major Axis Offset (usft) | Highside Toolface (°) | Offset Wellbore Center +N/-S (usft) | Offset Wellbore Center +E/-W (usft) | Distance Between Centers (usft) | Distance Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9,375.00 | 8,973.26 | 8,908.72 | 8,621.16 | 34.41 | 29.93 | -60.71 | -2,052.42 | -324.51 | 723.55 | 662.28 | 61.27 | 11.810 | |
| 9,400.00 | 8,974.00 | 8,927.64 | 8,625.75 | 34.56 | 29.98 | -61.29 | -2,052.88 | -342.86 | 721.17 | 659.58 | 61.60 | 11.708 | |
| 9,401.86 | 8,974.00 | 8,929.04 | 8,626.06 | 34.57 | 29.98 | -61.34 | -2,052.90 | -344.23 | 720.99 | 659.37 | 61.62 | 11.701 | |
| 9,500.00 | 8,974.00 | 9,001.88 | 8,638.34 | 35.27 | 30.14 | -62.21 | -2,053.30 | -415.99 | 713.08 | 650.16 | 62.93 | 11.332 | |
| 9,600.00 | 8,974.00 | 9,081.66 | 8,643.91 | 36.12 | 30.31 | -62.56 | -2,052.62 | -495.55 | 708.53 | 644.33 | 64.19 | 11.037 | |
| 9,700.00 | 8,974.00 | 9,166.91 | 8,644.50 | 37.09 | 30.50 | -62.52 | -2,050.94 | -580.76 | 706.00 | 640.55 | 65.45 | 10.787 | |
| 9,739.28 | 8,974.00 | 9,197.03 | 8,643.78 | 37.51 | 30.58 | -62.45 | -2,050.51 | -610.88 | 705.74 | 639.75 | 65.99 | 10.695 | CC |
| 9,800.00 | 8,974.00 | 9,245.54 | 8,641.79 | 38.17 | 30.70 | -62.29 | -2,050.30 | -659.34 | 706.34 | 639.54 | 66.80 | 10.574 | |
| 9,900.00 | 8,974.00 | 9,342.64 | 8,637.01 | 39.35 | 30.99 | -61.93 | -2,050.27 | -756.32 | 708.13 | 639.99 | 68.14 | 10.392 | |
| 10,000.00 | 8,974.00 | 9,426.00 | 8,631.82 | 40.62 | 31.26 | -61.58 | -2,051.36 | -839.51 | 711.70 | 642.05 | 69.65 | 10.219 | |
| 10,100.00 | 8,974.00 | 9,508.91 | 8,625.60 | 41.98 | 31.56 | -61.23 | -2,054.08 | -922.14 | 717.64 | 646.41 | 71.23 | 10.075 | |
| 10,200.00 | 8,974.00 | 9,608.19 | 8,617.93 | 43.41 | 31.96 | -60.84 | -2,058.38 | -1,021.03 | 724.70 | 651.88 | 72.82 | 9.952 | |
| 10,300.00 | 8,974.00 | 9,715.94 | 8,611.32 | 44.92 | 32.42 | -60.55 | -2,063.21 | -1,128.46 | 731.13 | 656.65 | 74.48 | 9.817 | |
| 10,400.00 | 8,974.00 | 9,818.72 | 8,606.48 | 46.48 | 32.89 | -60.38 | -2,067.98 | -1,231.02 | 737.01 | 660.75 | 76.27 | 9.664 | |
| 10,500.00 | 8,974.00 | 9,937.10 | 8,603.05 | 48.11 | 33.47 | -60.27 | -2,071.93 | -1,349.28 | 740.79 | 662.71 | 78.08 | 9.488 | |
| 10,600.00 | 8,974.00 | 10,035.55 | 8,600.41 | 49.78 | 33.98 | -60.17 | -2,074.41 | -1,447.66 | 743.82 | 663.79 | 80.03 | 9.294 | |
| 10,700.00 | 8,974.00 | 10,133.40 | 8,596.82 | 51.50 | 34.52 | -60.00 | -2,076.73 | -1,545.42 | 747.23 | 665.20 | 82.03 | 9.110 | |
| 10,800.00 | 8,974.00 | 10,230.39 | 8,592.82 | 53.27 | 35.09 | -59.80 | -2,078.98 | -1,642.30 | 750.82 | 666.76 | 84.06 | 8.932 | |
| 10,900.00 | 8,974.00 | 10,345.19 | 8,587.49 | 55.08 | 35.79 | -59.51 | -2,081.16 | -1,756.95 | 754.41 | 668.40 | 86.02 | 8.770 | |
| 11,000.00 | 8,974.00 | 10,449.86 | 8,583.89 | 56.92 | 36.45 | -59.25 | -2,081.07 | -1,861.56 | 755.60 | 667.53 | 88.07 | 8.580 | |
| 11,100.00 | 8,974.00 | 10,549.83 | 8,580.38 | 58.79 | 37.11 | -59.00 | -2,081.11 | -1,961.47 | 756.95 | 666.77 | 90.19 | 8.393 | |
| 11,200.00 | 8,974.00 | 10,647.96 | 8,576.91 | 60.69 | 37.77 | -58.76 | -2,081.19 | -2,059.54 | 758.38 | 666.03 | 92.35 | 8.212 | |
| 11,300.00 | 8,974.00 | 10,744.36 | 8,573.38 | 62.62 | 38.45 | -58.53 | -2,081.61 | -2,155.88 | 760.18 | 665.63 | 94.55 | 8.040 | |
| 11,400.00 | 8,974.00 | 10,843.81 | 8,569.41 | 64.58 | 39.17 | -58.27 | -2,082.17 | -2,255.25 | 762.28 | 665.53 | 96.75 | 7.879 | |
| 11,500.00 | 8,974.00 | 10,949.19 | 8,564.24 | 66.56 | 39.95 | -57.90 | -2,081.73 | -2,360.49 | 764.04 | 665.17 | 98.88 | 7.727 | |
| 11,600.00 | 8,974.00 | 11,051.46 | 8,559.10 | 68.56 | 40.73 | -57.51 | -2,080.62 | -2,462.63 | 765.34 | 664.33 | 101.02 | 7.576 | |
| 11,700.00 | 8,974.00 | 11,152.84 | 8,554.39 | 70.58 | 41.51 | -57.14 | -2,079.39 | -2,563.88 | 766.36 | 663.18 | 103.18 | 7.427 | |
| 11,800.00 | 8,974.00 | 11,250.56 | 8,550.17 | 72.61 | 42.29 | -56.82 | -2,078.49 | -2,661.51 | 767.49 | 662.08 | 105.40 | 7.281 | |
| 11,900.00 | 8,974.00 | 11,357.94 | 8,545.91 | 74.67 | 43.15 | -56.50 | -2,077.93 | -2,768.80 | 768.80 | 661.21 | 107.59 | 7.146 | |
| 11,988.74 | 8,974.00 | 11,449.39 | 8,544.04 | 76.50 | 43.90 | -56.31 | -2,076.54 | -2,860.23 | 768.24 | 658.63 | 109.62 | 7.009 | |
| 12,000.00 | 8,974.00 | 11,458.07 | 8,543.85 | 76.73 | 43.97 | -56.29 | -2,076.48 | -2,868.90 | 768.26 | 658.37 | 109.90 | 6.991 | |
| 12,100.00 | 8,974.00 | 11,539.82 | 8,541.55 | 78.81 | 44.65 | -56.16 | -2,077.13 | -2,950.62 | 769.98 | 657.62 | 112.36 | 6.853 | |
| 12,200.00 | 8,974.00 | 11,641.75 | 8,541.01 | 80.91 | 45.50 | -56.27 | -2,081.15 | -3,052.46 | 773.10 | 658.16 | 114.94 | 6.726 | |
| 12,300.00 | 8,974.00 | 11,751.61 | 8,543.36 | 83.01 | 46.44 | -56.55 | -2,085.11 | -3,162.22 | 774.41 | 656.75 | 117.66 | 6.582 | |
| 12,400.00 | 8,974.00 | 11,841.66 | 8,544.93 | 85.13 | 47.22 | -56.76 | -2,088.44 | -3,252.20 | 776.09 | 655.66 | 120.43 | 6.444 | |
| 12,500.00 | 8,974.00 | 11,927.83 | 8,544.54 | 87.26 | 47.97 | -56.87 | -2,092.13 | -3,338.28 | 779.46 | 656.34 | 123.12 | 6.331 | |
| 12,600.00 | 8,974.00 | 12,040.74 | 8,542.15 | 89.39 | 48.96 | -56.89 | -2,097.02 | -3,451.05 | 783.89 | 658.19 | 125.70 | 6.236 | |
| 12,700.00 | 8,974.00 | 12,147.69 | 8,542.19 | 91.54 | 49.92 | -56.97 | -2,099.66 | -3,557.98 | 785.43 | 657.07 | 128.36 | 6.119 | |
| 12,800.00 | 8,974.00 | 12,233.35 | 8,541.03 | 93.69 | 50.69 | -56.97 | -2,101.91 | -3,643.59 | 787.93 | 656.91 | 131.02 | 6.014 | |
| 12,900.00 | 8,974.00 | 12,355.62 | 8,538.84 | 95.86 | 51.80 | -56.95 | -2,105.26 | -3,765.79 | 790.89 | 657.33 | 133.56 | 5.922 | |
| 13,000.00 | 8,974.00 | 12,450.00 | 8,538.89 | 98.02 | 52.67 | -57.00 | -2,107.13 | -3,860.15 | 792.05 | 655.77 | 136.29 | 5.812 | |
| 13,100.00 | 8,974.00 | 12,562.79 | 8,539.29 | 100.20 | 53.71 | -57.06 | -2,108.71 | -3,972.93 | 792.55 | 653.60 | 138.95 | 5.704 | |
| 13,127.34 | 8,974.00 | 12,588.53 | 8,539.33 | 100.80 | 53.96 | -57.07 | -2,108.85 | -3,998.66 | 792.52 | 652.83 | 139.69 | 5.673 | |
| 13,200.00 | 8,974.00 | 12,658.48 | 8,538.81 | 102.38 | 54.61 | -57.03 | -2,109.10 | -4,068.62 | 792.70 | 651.09 | 141.61 | 5.598 | |
| 13,300.00 | 8,974.00 | 12,758.83 | 8,538.88 | 104.57 | 55.56 | -57.05 | -2,109.98 | -4,168.95 | 792.93 | 648.61 | 144.31 | 5.494 | |

CC - Min center to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

PERMIAN RESOURCES

# Phoenix Technology Services

## Anticollision Report

PHOENIX TECHNOLOGY SERVICES

| | | | |
|---|---|---|---|
| **Company:** | Permian Resources | **Local Co-ordinate Reference:** | Well Dawson 34 Fed Com 204H |
| **Project:** | Eddy County, NM (NAD83 - NME) | **TVD Reference:** | RKB @ 3333.80usft (TBD) |
| **Reference Site:** | Dawson 34 Fed Com | **MD Reference:** | RKB @ 3333.80usft (TBD) |
| **Site Error:** | 0.00 | **North Reference:** | Grid |
| **Reference Well:** | Dawson 34 Fed Com 204H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 1.00 | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | OH | **Database:** | USAEDMDB |
| **Reference Design:** | Plan 1 07-26-23 | **Offset TVD Reference:** | Offset Datum |

**Offset Design** Dawson 34 Federal Com 134H - OH - Surveys — **Offset Site Error:** 0.00 usft

**Survey Program:** 429-MWD+IFR1+SAG+FDIR — **Offset Well Error:** 1.00 usft

| Reference Measured Depth (usft) | Reference Vertical Depth (usft) | Offset Measured Depth (usft) | Offset Vertical Depth (usft) | Semi Major Axis Reference (usft) | Semi Major Axis Offset (usft) | Highside Toolface (°) | Offset Wellbore Center +N/-S (usft) | Offset Wellbore Center +E/-W (usft) | Distance Between Centers (usft) | Distance Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 13,400.00 | 8,974.00 | 12,852.45 | 8,538.53 | 106.76 | 56.45 | -57.04 | -2,111.00 | -4,262.57 | 793.58 | 646.54 | 147.04 | 5.397 | |
| 13,500.00 | 8,974.00 | 12,942.41 | 8,536.74 | 108.96 | 57.30 | -56.96 | -2,112.15 | -4,352.50 | 795.27 | 645.59 | 149.68 | 5.313 | |
| 13,600.00 | 8,974.00 | 13,029.60 | 8,534.87 | 111.16 | 58.14 | -56.93 | -2,114.70 | -4,439.64 | 798.43 | 646.06 | 152.37 | 5.240 | |
| 13,700.00 | 8,974.00 | 13,112.00 | 8,534.33 | 113.37 | 58.93 | -57.07 | -2,119.51 | -4,521.89 | 803.27 | 648.07 | 155.20 | 5.176 | |
| 13,800.00 | 8,974.00 | 13,206.00 | 8,534.08 | 115.59 | 59.84 | -57.32 | -2,127.00 | -4,615.59 | 809.65 | 651.45 | 158.20 | 5.118 | |
| 13,900.00 | 8,974.00 | 13,319.09 | 8,535.00 | 117.80 | 60.94 | -57.72 | -2,136.58 | -4,728.26 | 815.92 | 654.45 | 161.47 | 5.053 | |
| 14,000.00 | 8,974.00 | 13,430.82 | 8,537.37 | 120.02 | 62.03 | -58.11 | -2,144.14 | -4,839.71 | 820.02 | 655.28 | 164.74 | 4.978 | |
| 14,100.00 | 8,974.00 | 13,535.70 | 8,538.58 | 122.25 | 63.06 | -58.39 | -2,150.38 | -4,944.40 | 824.02 | 656.15 | 167.87 | 4.909 | |
| 14,200.00 | 8,974.00 | 13,680.45 | 8,543.09 | 124.47 | 64.50 | -58.81 | -2,155.38 | -5,088.97 | 825.01 | 654.02 | 170.99 | 4.825 | |
| 14,300.00 | 8,974.00 | 13,773.00 | 8,545.89 | 126.71 | 65.42 | -58.98 | -2,155.99 | -5,181.47 | 823.52 | 649.43 | 174.09 | 4.730 | |
| 14,326.33 | 8,974.00 | 13,788.94 | 8,546.09 | 127.29 | 65.58 | -59.00 | -2,156.12 | -5,197.41 | 823.38 | 648.47 | 174.92 | 4.707 | |
| 14,400.00 | 8,974.00 | 13,838.99 | 8,546.11 | 128.94 | 66.08 | -59.03 | -2,157.25 | -5,247.45 | 824.44 | 647.33 | 177.10 | 4.655 | |
| 14,500.00 | 8,974.00 | 13,920.28 | 8,544.49 | 131.18 | 66.90 | -59.05 | -2,160.90 | -5,328.64 | 828.77 | 648.85 | 179.92 | 4.606 | |
| 14,600.00 | 8,974.00 | 14,010.94 | 8,541.50 | 133.42 | 67.81 | -59.02 | -2,165.61 | -5,419.12 | 834.44 | 651.78 | 182.66 | 4.568 | |
| 14,700.00 | 8,974.00 | 14,109.15 | 8,537.26 | 135.66 | 68.80 | -58.94 | -2,171.10 | -5,517.09 | 840.97 | 655.59 | 185.38 | 4.536 | |
| 14,800.00 | 8,974.00 | 14,237.06 | 8,535.16 | 137.91 | 70.09 | -59.05 | -2,178.24 | -5,644.76 | 846.24 | 657.76 | 188.48 | 4.490 | |
| 14,900.00 | 8,974.00 | 14,416.86 | 8,540.45 | 140.15 | 71.93 | -59.31 | -2,177.93 | -5,824.40 | 843.70 | 652.67 | 191.03 | 4.417 | |
| 15,000.00 | 8,974.00 | 14,520.09 | 8,541.36 | 142.40 | 72.98 | -59.10 | -2,170.87 | -5,927.38 | 836.88 | 643.35 | 193.52 | 4.324 | |
| 15,100.00 | 8,974.00 | 14,611.09 | 8,540.21 | 144.66 | 73.91 | -58.77 | -2,164.06 | -6,018.11 | 830.64 | 634.57 | 196.07 | 4.236 | |
| 15,200.00 | 8,974.00 | 14,701.85 | 8,537.59 | 146.91 | 74.85 | -58.36 | -2,157.55 | -6,108.60 | 825.54 | 627.07 | 198.47 | 4.160 | |
| 15,300.00 | 8,974.00 | 14,794.64 | 8,534.50 | 149.17 | 75.80 | -57.94 | -2,151.70 | -6,201.15 | 821.46 | 620.68 | 200.78 | 4.091 | |
| 15,400.00 | 8,974.00 | 14,890.14 | 8,531.93 | 151.43 | 76.79 | -57.59 | -2,146.83 | -6,296.50 | 818.10 | 614.98 | 203.13 | 4.028 | |
| 15,500.00 | 8,974.00 | 14,987.54 | 8,529.04 | 153.69 | 77.80 | -57.22 | -2,142.16 | -6,393.73 | 815.19 | 609.79 | 205.40 | 3.969 | |
| 15,600.00 | 8,974.00 | 15,079.37 | 8,526.53 | 155.95 | 78.76 | -56.91 | -2,138.52 | -6,485.46 | 812.88 | 605.07 | 207.81 | 3.912 | |
| 15,700.00 | 8,974.00 | 15,170.47 | 8,522.54 | 158.21 | 79.71 | -56.53 | -2,135.10 | -6,576.41 | 811.68 | 601.63 | 210.05 | 3.864 | |
| 15,800.00 | 8,974.00 | 15,272.53 | 8,518.35 | 160.48 | 80.77 | -56.14 | -2,132.12 | -6,678.33 | 811.06 | 598.88 | 212.18 | 3.822 | |
| 15,900.00 | 8,974.00 | 15,365.64 | 8,516.10 | 162.75 | 81.75 | -55.93 | -2,130.53 | -6,771.40 | 810.54 | 595.88 | 214.66 | 3.776 | |
| 16,000.00 | 8,974.00 | 15,467.75 | 8,513.49 | 165.01 | 82.82 | -55.70 | -2,129.24 | -6,873.46 | 810.48 | 593.43 | 217.04 | 3.734 | |
| 16,100.00 | 8,974.00 | 15,582.98 | 8,512.79 | 167.28 | 84.03 | -55.56 | -2,127.48 | -6,988.68 | 809.07 | 589.60 | 219.46 | 3.687 | |
| 16,200.00 | 8,974.00 | 15,676.60 | 8,512.44 | 169.56 | 85.01 | -55.45 | -2,125.71 | -7,082.28 | 807.26 | 585.14 | 222.12 | 3.634 | |
| 16,300.00 | 8,974.00 | 15,766.29 | 8,510.84 | 171.83 | 85.96 | -55.28 | -2,124.33 | -7,171.95 | 806.55 | 581.87 | 224.68 | 3.590 | |
| 16,307.28 | 8,974.00 | 15,772.92 | 8,510.66 | 171.99 | 86.03 | -55.27 | -2,124.24 | -7,178.57 | 806.55 | 581.69 | 224.86 | 3.587 | |
| 16,400.00 | 8,974.00 | 15,857.71 | 8,507.82 | 174.10 | 86.92 | -55.04 | -2,123.27 | -7,263.31 | 807.03 | 579.98 | 227.05 | 3.554 | |
| 16,500.00 | 8,974.00 | 15,954.79 | 8,503.65 | 176.38 | 87.95 | -54.74 | -2,122.35 | -7,360.30 | 808.27 | 579.02 | 229.25 | 3.526 | |
| 16,600.00 | 8,974.00 | 16,059.01 | 8,500.61 | 178.65 | 89.05 | -54.53 | -2,122.03 | -7,464.47 | 809.25 | 577.66 | 231.59 | 3.494 | |
| 16,700.00 | 8,974.00 | 16,157.58 | 8,497.83 | 180.93 | 90.10 | -54.34 | -2,121.91 | -7,562.99 | 810.34 | 576.34 | 233.99 | 3.463 | |
| 16,800.00 | 8,974.00 | 16,262.67 | 8,496.65 | 183.21 | 91.21 | -54.27 | -2,122.39 | -7,668.08 | 810.90 | 574.29 | 236.61 | 3.427 | |
| 16,900.00 | 8,974.00 | 16,357.20 | 8,495.96 | 185.49 | 92.22 | -54.24 | -2,123.09 | -7,762.60 | 811.49 | 572.14 | 239.35 | 3.390 | |
| 17,000.00 | 8,974.00 | 16,456.83 | 8,494.01 | 187.77 | 93.28 | -54.15 | -2,124.14 | -7,862.20 | 813.04 | 571.10 | 241.94 | 3.361 | |
| 17,100.00 | 8,974.00 | 16,562.18 | 8,493.13 | 190.05 | 94.40 | -54.09 | -2,124.58 | -7,967.55 | 813.39 | 568.81 | 244.58 | 3.326 | |
| 17,200.00 | 8,974.00 | 16,656.80 | 8,491.39 | 192.33 | 95.41 | -53.98 | -2,124.84 | -8,062.15 | 814.23 | 567.09 | 247.14 | 3.295 | |
| 17,300.00 | 8,974.00 | 16,755.14 | 8,489.56 | 194.62 | 96.46 | -53.88 | -2,125.61 | -8,160.47 | 815.51 | 565.80 | 249.71 | 3.266 | |
| 17,400.00 | 8,974.00 | 16,859.01 | 8,488.44 | 196.90 | 97.57 | -53.85 | -2,126.89 | -8,264.32 | 816.70 | 564.29 | 252.41 | 3.236 | |
| 17,500.00 | 8,974.00 | 16,963.11 | 8,488.67 | 199.19 | 98.68 | -53.90 | -2,128.37 | -8,368.41 | 817.26 | 561.96 | 255.30 | 3.201 | |
| 17,600.00 | 8,974.00 | 17,070.51 | 8,488.99 | 201.47 | 99.83 | -53.92 | -2,129.13 | -8,475.81 | 817.21 | 559.10 | 258.11 | 3.166 | |
| 17,700.00 | 8,974.00 | 17,172.02 | 8,489.49 | 203.76 | 100.92 | -53.93 | -2,129.21 | -8,577.32 | 816.54 | 555.62 | 260.91 | 3.130 | |

CC - Min center to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

PERMIAN RESOURCES

# Phoenix Technology Services

## Anticollision Report

PHOENIX TECHNOLOGY SERVICES

| | | | |
|---|---|---|---|
| **Company:** | Permian Resources | **Local Co-ordinate Reference:** | Well Dawson 34 Fed Com 204H |
| **Project:** | Eddy County, NM (NAD83 - NME) | **TVD Reference:** | RKB @ 3333.80usft (TBD) |
| **Reference Site:** | Dawson 34 Fed Com | **MD Reference:** | RKB @ 3333.80usft (TBD) |
| **Site Error:** | 0.00 | **North Reference:** | Grid |
| **Reference Well:** | Dawson 34 Fed Com 204H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 1.00 | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | OH | **Database:** | USAEDMDB |
| **Reference Design:** | Plan 1 07-26-23 | **Offset TVD Reference:** | Offset Datum |

**Offset Design** Dawson 34 Federal Com 134H - OH - Surveys — **Offset Site Error:** 0.00 usft

**Survey Program:** 429-MWD+IFR1+SAG+FDIR — **Offset Well Error:** 1.00 usft

| Reference Measured Depth (usft) | Reference Vertical Depth (usft) | Offset Measured Depth (usft) | Offset Vertical Depth (usft) | Semi Major Axis Reference (usft) | Semi Major Axis Offset (usft) | Highside Toolface (°) | Offset Wellbore Center +N/-S (usft) | Offset Wellbore Center +E/-W (usft) | Distance Between Centers (usft) | Distance Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 17,800.00 | 8,974.00 | 17,277.52 | 8,490.34 | 206.05 | 102.05 | -53.94 | -2,128.84 | -8,682.82 | 815.32 | 551.64 | 263.68 | 3.092 | |
| 17,900.00 | 8,974.00 | 17,366.10 | 8,490.46 | 208.34 | 103.01 | -53.92 | -2,128.68 | -8,771.40 | 814.64 | 548.11 | 266.52 | 3.057 | |
| 17,907.24 | 8,974.00 | 17,373.23 | 8,490.43 | 208.50 | 103.08 | -53.92 | -2,128.70 | -8,778.53 | 814.64 | 547.92 | 266.72 | 3.054 | |
| 18,000.00 | 8,974.00 | 17,464.45 | 8,490.01 | 210.63 | 104.06 | -53.89 | -2,129.00 | -8,869.74 | 814.72 | 545.48 | 269.24 | 3.026 | |
| 18,100.00 | 8,974.00 | 17,559.30 | 8,489.37 | 212.91 | 105.09 | -53.85 | -2,129.53 | -8,964.59 | 815.13 | 543.16 | 271.97 | 2.997 | |
| 18,200.00 | 8,974.00 | 17,648.69 | 8,487.26 | 215.21 | 106.05 | -53.73 | -2,130.09 | -9,053.95 | 816.58 | 542.10 | 274.48 | 2.975 | |
| 18,300.00 | 8,974.00 | 17,743.96 | 8,483.52 | 217.50 | 107.08 | -53.54 | -2,131.18 | -9,149.14 | 819.36 | 542.59 | 276.77 | 2.960 | |
| 18,400.00 | 8,974.00 | 17,889.26 | 8,479.71 | 219.79 | 108.65 | -53.24 | -2,129.72 | -9,294.36 | 819.84 | 541.36 | 278.48 | 2.944 | |
| 18,500.00 | 8,974.00 | 17,999.41 | 8,479.85 | 222.08 | 109.84 | -53.03 | -2,125.19 | -9,404.41 | 815.99 | 535.46 | 280.52 | 2.909 | |
| 18,600.00 | 8,974.00 | 18,097.06 | 8,480.53 | 224.37 | 110.90 | -52.88 | -2,121.44 | -9,502.00 | 812.05 | 529.11 | 282.95 | 2.870 | |
| 18,700.00 | 8,974.00 | 18,182.97 | 8,480.29 | 226.67 | 111.83 | -52.73 | -2,118.58 | -9,587.85 | 809.13 | 523.63 | 285.50 | 2.834 | |
| 18,800.00 | 8,974.00 | 18,272.26 | 8,478.54 | 228.96 | 112.80 | -52.51 | -2,116.24 | -9,677.09 | 807.79 | 520.02 | 287.76 | 2.807 | |
| 18,848.85 | 8,974.00 | 18,315.43 | 8,477.07 | 230.08 | 113.27 | -52.37 | -2,115.14 | -9,720.23 | 807.60 | 518.85 | 288.75 | 2.797 | |
| 18,900.00 | 8,974.00 | 18,360.24 | 8,475.31 | 231.26 | 113.75 | -52.22 | -2,114.25 | -9,764.99 | 807.81 | 518.04 | 289.77 | 2.788 | |
| 19,000.00 | 8,974.00 | 18,454.32 | 8,471.07 | 233.55 | 114.78 | -51.90 | -2,112.99 | -9,858.97 | 809.07 | 517.45 | 291.62 | 2.774 | ES |
| 19,100.00 | 8,974.00 | 18,541.87 | 8,466.35 | 235.85 | 115.73 | -51.58 | -2,112.16 | -9,946.39 | 811.25 | 517.86 | 293.39 | 2.765 | |
| 19,200.00 | 8,974.00 | 18,647.70 | 8,460.01 | 238.14 | 116.88 | -51.20 | -2,111.95 | -10,052.03 | 814.43 | 519.44 | 294.98 | 2.761 | |
| 19,300.00 | 8,974.00 | 18,746.33 | 8,455.76 | 240.44 | 117.95 | -50.94 | -2,111.94 | -10,150.57 | 816.70 | 519.78 | 296.92 | 2.751 | |
| 19,391.86 | 8,974.00 | 18,835.00 | 8,451.63 | 242.55 | 118.92 | -50.71 | -2,112.17 | -10,239.14 | 819.19 | 520.52 | 298.67 | 2.743 | SF |

PERMIAN RESOURCES

# Phoenix Technology Services

## Anticollision Report

PHOENIX TECHNOLOGY SERVICES

| | | | |
|---|---|---|---|
| **Company:** | Permian Resources | **Local Co-ordinate Reference:** | Well Dawson 34 Fed Com 204H |
| **Project:** | Eddy County, NM (NAD83 - NME) | **TVD Reference:** | RKB @ 3333.80usft (TBD) |
| **Reference Site:** | Dawson 34 Fed Com | **MD Reference:** | RKB @ 3333.80usft (TBD) |
| **Site Error:** | 0.00 | **North Reference:** | Grid |
| **Reference Well:** | Dawson 34 Fed Com 204H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 1.00 | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | OH | **Database:** | USAEDMDB |
| **Reference Design:** | Plan 1 07-26-23 | **Offset TVD Reference:** | Offset Datum |

**Offset Design** Dero Federal Com 003 - OH - Surveys — **Offset Site Error:** 0.00 usft

**Survey Program:** 215-INC-ONLY — **Offset Well Error:** 1.00 usft

| Reference Measured Depth (usft) | Reference Vertical Depth (usft) | Offset Measured Depth (usft) | Offset Vertical Depth (usft) | Semi Major Axis Reference (usft) | Semi Major Axis Offset (usft) | Highside Toolface (°) | Offset Wellbore Center +N/-S (usft) | Offset Wellbore Center +E/-W (usft) | Distance Between Centers (usft) | Distance Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 13,200.00 | 8,974.00 | 8,945.70 | 8,944.20 | 102.38 | 194.15 | 90.00 | -514.50 | -4,714.07 | 1,128.06 | 843.44 | 284.61 | 3.963 | |
| 13,300.00 | 8,974.00 | 8,945.70 | 8,944.20 | 104.57 | 194.15 | 90.00 | -514.50 | -4,714.07 | 1,075.06 | 785.22 | 289.84 | 3.709 | |
| 13,400.00 | 8,974.00 | 8,945.70 | 8,944.20 | 106.76 | 194.15 | 90.00 | -514.50 | -4,714.07 | 1,029.07 | 734.10 | 294.97 | 3.489 | |
| 13,500.00 | 8,974.00 | 8,945.70 | 8,944.20 | 108.96 | 194.15 | 90.00 | -514.50 | -4,714.07 | 991.06 | 691.29 | 299.78 | 3.306 | |
| 13,600.00 | 8,974.00 | 8,945.70 | 8,944.20 | 111.16 | 194.15 | 90.00 | -514.50 | -4,714.07 | 962.00 | 658.00 | 304.00 | 3.164 | |
| 13,700.00 | 8,974.00 | 8,945.70 | 8,944.20 | 113.37 | 194.15 | 90.00 | -514.50 | -4,714.07 | 942.69 | 635.34 | 307.35 | 3.067 | |
| 13,800.00 | 8,974.00 | 8,945.70 | 8,944.20 | 115.59 | 194.15 | 90.00 | -514.50 | -4,714.07 | 933.75 | 624.14 | 309.61 | 3.016 | |
| 13,833.95 | 8,974.00 | 8,945.70 | 8,944.20 | 116.34 | 194.15 | 90.00 | -514.50 | -4,714.07 | 933.14 | 623.04 | 310.10 | 3.009 | CC, ES, SF |
| 13,900.00 | 8,974.00 | 8,945.70 | 8,944.20 | 117.80 | 194.15 | 90.00 | -514.50 | -4,714.07 | 935.48 | 624.86 | 310.63 | 3.012 | |
| 14,000.00 | 8,974.00 | 8,945.70 | 8,944.20 | 120.02 | 194.15 | 90.00 | -514.50 | -4,714.07 | 947.82 | 637.44 | 310.38 | 3.054 | |
| 14,100.00 | 8,974.00 | 8,945.70 | 8,944.20 | 122.25 | 194.15 | 90.00 | -514.50 | -4,714.07 | 970.36 | 661.39 | 308.97 | 3.141 | |
| 14,200.00 | 8,974.00 | 8,945.70 | 8,944.20 | 124.47 | 194.15 | 90.00 | -514.50 | -4,714.07 | 1,002.41 | 695.81 | 306.60 | 3.269 | |
| 14,300.00 | 8,974.00 | 8,945.70 | 8,944.20 | 126.71 | 194.15 | 90.00 | -514.50 | -4,714.07 | 1,043.10 | 739.59 | 303.51 | 3.437 | |
| 14,400.00 | 8,974.00 | 8,945.70 | 8,944.20 | 128.94 | 194.15 | 90.00 | -514.50 | -4,714.07 | 1,091.46 | 791.51 | 299.94 | 3.639 | |
| 14,500.00 | 8,974.00 | 8,945.70 | 8,944.20 | 131.18 | 194.15 | 90.00 | -514.50 | -4,714.07 | 1,146.52 | 850.40 | 296.13 | 3.872 | |

CC - Min center to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

PERMIAN RESOURCES

# Phoenix Technology Services

## Anticollision Report

PHOENIX TECHNOLOGY SERVICES

| | | | |
|---|---|---|---|
| **Company:** | Permian Resources | **Local Co-ordinate Reference:** | Well Dawson 34 Fed Com 204H |
| **Project:** | Eddy County, NM (NAD83 - NME) | **TVD Reference:** | RKB @ 3333.80usft (TBD) |
| **Reference Site:** | Dawson 34 Fed Com | **MD Reference:** | RKB @ 3333.80usft (TBD) |
| **Site Error:** | 0.00 | **North Reference:** | Grid |
| **Reference Well:** | Dawson 34 Fed Com 204H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 1.00 | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | OH | **Database:** | USAEDMDB |
| **Reference Design:** | Plan 1 07-26-23 | **Offset TVD Reference:** | Offset Datum |

**Offset Design** DWU Federal 001 - OH - Surveys — **Offset Site Error:** 0.00 usft

**Survey Program:** 122-INC-ONLY — **Offset Well Error:** 1.00 usft

| Reference Measured Depth (usft) | Reference Vertical Depth (usft) | Offset Measured Depth (usft) | Offset Vertical Depth (usft) | Semi Major Axis Reference (usft) | Semi Major Axis Offset (usft) | Highside Toolface (°) | Offset Wellbore Center +N/-S (usft) | Offset Wellbore Center +E/-W (usft) | Distance Between Centers (usft) | Distance Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10,400.00 | 8,974.00 | 8,954.82 | 8,952.82 | 46.48 | 204.89 | 90.35 | -519.58 | -1,667.04 | 989.84 | 739.10 | 250.74 | 3.948 | |
| 10,500.00 | 8,974.00 | 8,954.82 | 8,952.82 | 48.11 | 204.89 | 90.35 | -519.58 | -1,667.04 | 955.20 | 702.35 | 252.84 | 3.778 | |
| 10,600.00 | 8,974.00 | 8,954.83 | 8,952.83 | 49.78 | 204.89 | 90.35 | -519.58 | -1,667.04 | 930.07 | 675.34 | 254.73 | 3.651 | |
| 10,700.00 | 8,974.00 | 8,954.83 | 8,952.83 | 51.50 | 204.89 | 90.35 | -519.58 | -1,667.04 | 915.23 | 658.96 | 256.28 | 3.571 | |
| 10,786.89 | 8,974.00 | 8,954.83 | 8,952.83 | 53.04 | 204.89 | 90.35 | -519.58 | -1,667.04 | 911.10 | 653.84 | 257.26 | 3.542 | CC |
| 10,800.00 | 8,974.00 | 8,954.83 | 8,952.84 | 53.27 | 204.89 | 90.35 | -519.58 | -1,667.04 | 911.19 | 653.82 | 257.37 | 3.540 | ES, SF |
| 10,900.00 | 8,974.00 | 8,954.84 | 8,952.84 | 55.08 | 204.89 | 90.35 | -519.58 | -1,667.04 | 918.09 | 660.12 | 257.97 | 3.559 | |
| 11,000.00 | 8,974.00 | 8,954.84 | 8,952.84 | 56.92 | 204.89 | 90.35 | -519.58 | -1,667.04 | 935.69 | 677.63 | 258.06 | 3.626 | |
| 11,100.00 | 8,974.00 | 8,954.84 | 8,952.85 | 58.79 | 204.89 | 90.36 | -519.58 | -1,667.04 | 963.40 | 705.70 | 257.69 | 3.739 | |
| 11,200.00 | 8,974.00 | 8,954.85 | 8,952.85 | 60.69 | 204.89 | 90.36 | -519.58 | -1,667.04 | 1,000.38 | 743.42 | 256.96 | 3.893 | |

CC - Min center to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

PERMIAN RESOURCES

# Phoenix Technology Services

## Anticollision Report

PHOENIX TECHNOLOGY SERVICES

| | | | |
|---|---|---|---|
| **Company:** | Permian Resources | **Local Co-ordinate Reference:** | Well Dawson 34 Fed Com 204H |
| **Project:** | Eddy County, NM (NAD83 - NME) | **TVD Reference:** | RKB @ 3333.80usft (TBD) |
| **Reference Site:** | Dawson 34 Fed Com | **MD Reference:** | RKB @ 3333.80usft (TBD) |
| **Site Error:** | 0.00 | **North Reference:** | Grid |
| **Reference Well:** | Dawson 34 Fed Com 204H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 1.00 | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | OH | **Database:** | USAEDMDB |
| **Reference Design:** | Plan 1 07-26-23 | **Offset TVD Reference:** | Offset Datum |

**Offset Design** DWU Federal 004 - Wellbore #1 - Surveys — **Offset Site Error:** 0.00 usft

**Survey Program:** 358-INC-ONLY — **Offset Well Error:** 1.00 usft

| Reference Measured Depth (usft) | Reference Vertical Depth (usft) | Offset Measured Depth (usft) | Offset Vertical Depth (usft) | Semi Major Axis Reference (usft) | Semi Major Axis Offset (usft) | Highside Toolface (°) | Offset Wellbore Center +N/-S (usft) | Offset Wellbore Center +E/-W (usft) | Distance Between Centers (usft) | Distance Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9,900.00 | 8,974.00 | 8,940.70 | 8,938.04 | 39.35 | 201.98 | -89.97 | -1,700.14 | -1,721.51 | 985.41 | 760.66 | 224.75 | 4.384 | |
| 10,000.00 | 8,974.00 | 8,940.70 | 8,938.04 | 40.62 | 201.98 | -89.97 | -1,700.14 | -1,721.51 | 889.64 | 664.86 | 224.78 | 3.958 | |
| 10,100.00 | 8,974.00 | 8,940.70 | 8,938.04 | 41.98 | 201.98 | -89.97 | -1,700.14 | -1,721.51 | 794.90 | 569.94 | 224.96 | 3.534 | |
| 10,200.00 | 8,974.00 | 8,940.70 | 8,938.04 | 43.41 | 201.98 | -89.97 | -1,700.14 | -1,721.51 | 701.62 | 476.22 | 225.40 | 3.113 | |
| 10,300.00 | 8,974.00 | 8,940.70 | 8,938.04 | 44.92 | 201.98 | -89.97 | -1,700.14 | -1,721.51 | 610.48 | 384.16 | 226.32 | 2.697 | |
| 10,400.00 | 8,974.00 | 8,940.70 | 8,938.04 | 46.48 | 201.98 | -89.97 | -1,700.14 | -1,721.51 | 522.59 | 294.51 | 228.08 | 2.291 | |
| 10,500.00 | 8,974.00 | 8,940.70 | 8,938.04 | 48.11 | 201.98 | -89.97 | -1,700.14 | -1,721.51 | 439.90 | 208.68 | 231.22 | 1.903 | |
| 10,600.00 | 8,974.00 | 8,940.71 | 8,938.04 | 49.78 | 201.98 | -89.97 | -1,700.14 | -1,721.51 | 365.96 | 129.48 | 236.47 | 1.548 | |
| 10,700.00 | 8,974.00 | 8,940.71 | 8,938.04 | 51.50 | 201.98 | -89.97 | -1,700.14 | -1,721.51 | 307.14 | 63.00 | 244.14 | 1.258 | Level 3 |
| 10,800.00 | 8,974.00 | 8,940.71 | 8,938.04 | 53.27 | 201.98 | -89.97 | -1,700.14 | -1,721.51 | 273.40 | 20.92 | 252.47 | 1.083 | Level 2 |
| 10,847.94 | 8,974.00 | 8,940.71 | 8,938.04 | 54.14 | 201.98 | -89.97 | -1,700.14 | -1,721.51 | 269.16 | 13.76 | 255.40 | 1.054 | Level 2 , CC, E |
| 10,900.00 | 8,974.00 | 8,940.71 | 8,938.04 | 55.08 | 201.98 | -89.97 | -1,700.14 | -1,721.51 | 274.15 | 17.09 | 257.06 | 1.066 | Level 2 |
| 11,000.00 | 8,974.00 | 8,940.71 | 8,938.04 | 56.92 | 201.98 | -89.97 | -1,700.14 | -1,721.51 | 309.14 | 53.03 | 256.12 | 1.207 | Level 2 |
| 11,100.00 | 8,974.00 | 8,940.71 | 8,938.04 | 58.79 | 201.98 | -89.97 | -1,700.14 | -1,721.51 | 368.76 | 116.27 | 252.49 | 1.460 | Level 3 |
| 11,200.00 | 8,974.00 | 8,940.71 | 8,938.04 | 60.69 | 201.98 | -89.97 | -1,700.14 | -1,721.51 | 443.16 | 194.47 | 248.69 | 1.782 | |
| 11,300.00 | 8,974.00 | 8,940.71 | 8,938.04 | 62.62 | 201.98 | -89.97 | -1,700.14 | -1,721.51 | 526.12 | 280.59 | 245.53 | 2.143 | |
| 11,400.00 | 8,974.00 | 8,940.71 | 8,938.04 | 64.58 | 201.98 | -89.97 | -1,700.14 | -1,721.51 | 614.18 | 371.12 | 243.06 | 2.527 | |
| 11,500.00 | 8,974.00 | 8,940.71 | 8,938.04 | 66.56 | 201.98 | -89.97 | -1,700.14 | -1,721.51 | 705.43 | 464.29 | 241.14 | 2.925 | |
| 11,600.00 | 8,974.00 | 8,940.71 | 8,938.04 | 68.56 | 201.98 | -89.97 | -1,700.14 | -1,721.51 | 798.77 | 559.13 | 239.64 | 3.333 | |
| 11,700.00 | 8,974.00 | 8,940.71 | 8,938.04 | 70.58 | 201.98 | -89.97 | -1,700.14 | -1,721.51 | 893.56 | 655.11 | 238.45 | 3.747 | |
| 11,800.00 | 8,974.00 | 8,940.71 | 8,938.05 | 72.61 | 201.98 | -89.97 | -1,700.14 | -1,721.51 | 989.38 | 751.88 | 237.50 | 4.166 | |

PERMIAN RESOURCES

# Phoenix Technology Services

## Anticollision Report

PHOENIX TECHNOLOGY SERVICES

| | | | |
|---|---|---|---|
| **Company:** | Permian Resources | **Local Co-ordinate Reference:** | Well Dawson 34 Fed Com 204H |
| **Project:** | Eddy County, NM (NAD83 - NME) | **TVD Reference:** | RKB @ 3333.80usft (TBD) |
| **Reference Site:** | Dawson 34 Fed Com | **MD Reference:** | RKB @ 3333.80usft (TBD) |
| **Site Error:** | 0.00 | **North Reference:** | Grid |
| **Reference Well:** | Dawson 34 Fed Com 204H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 1.00 | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | OH | **Database:** | USAEDMDB |
| **Reference Design:** | Plan 1 07-26-23 | **Offset TVD Reference:** | Offset Datum |

**Offset Design** DWU Federal 006 - OH - Surveys — **Offset Site Error:** 0.00 usft

**Survey Program:** 220-INC-ONLY — **Offset Well Error:** 1.00 usft

| Reference Measured Depth (usft) | Reference Vertical Depth (usft) | Offset Measured Depth (usft) | Offset Vertical Depth (usft) | Semi Major Axis Reference (usft) | Semi Major Axis Offset (usft) | Highside Toolface (°) | Offset Wellbore Center +N/-S (usft) | Offset Wellbore Center +E/-W (usft) | Distance Between Centers (usft) | Distance Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.00 | 0.00 | 0.00 | 0.00 | 1.00 | 1.00 | -145.92 | -513.06 | -347.10 | 620.21 | | | | |
| 100.00 | 100.00 | 69.20 | 69.20 | 1.32 | 1.82 | -145.92 | -513.06 | -347.10 | 619.44 | 616.31 | 3.14 | 197.458 | |
| 200.00 | 200.00 | 169.20 | 169.20 | 1.79 | 3.85 | -145.92 | -513.06 | -347.10 | 619.44 | 613.80 | 5.64 | 109.800 | |
| 300.00 | 300.00 | 269.20 | 269.20 | 2.17 | 5.79 | -145.92 | -513.06 | -347.10 | 619.44 | 611.49 | 7.95 | 77.891 | |
| 342.33 | 342.33 | 311.53 | 311.53 | 2.30 | 6.52 | -145.92 | -512.96 | -347.10 | 619.36 | 610.54 | 8.82 | 70.212 | |
| 400.00 | 400.00 | 368.50 | 368.50 | 2.49 | 7.51 | -145.92 | -513.00 | -347.10 | 619.39 | 609.39 | 10.00 | 61.947 | |
| 500.00 | 500.00 | 469.21 | 469.20 | 2.78 | 10.11 | -145.92 | -513.06 | -347.10 | 619.44 | 606.55 | 12.89 | 48.055 | |
| 600.00 | 600.00 | 569.21 | 569.20 | 3.04 | 13.15 | -145.92 | -513.06 | -347.10 | 619.44 | 603.26 | 16.19 | 38.271 | |
| 683.42 | 683.42 | 652.59 | 652.58 | 3.24 | 15.68 | -145.88 | -512.25 | -347.10 | 618.77 | 599.85 | 18.92 | 32.703 | |
| 700.00 | 700.00 | 668.95 | 668.94 | 3.28 | 16.17 | -145.88 | -512.26 | -347.10 | 618.78 | 599.32 | 19.46 | 31.800 | |
| 800.00 | 800.00 | 767.62 | 767.61 | 3.51 | 19.17 | -145.89 | -512.44 | -347.10 | 618.93 | 596.24 | 22.69 | 27.282 | |
| 900.00 | 900.00 | 866.30 | 866.28 | 3.73 | 22.17 | -145.91 | -512.87 | -347.10 | 619.29 | 593.39 | 25.90 | 23.908 | |
| 1,000.00 | 1,000.00 | 969.29 | 969.20 | 3.94 | 25.00 | -145.92 | -513.06 | -347.10 | 619.44 | 590.51 | 28.93 | 21.409 | |
| 1,100.00 | 1,100.00 | 1,069.29 | 1,069.20 | 4.13 | 27.61 | -145.92 | -513.06 | -347.10 | 619.44 | 587.70 | 31.75 | 19.513 | |
| 1,167.66 | 1,167.66 | 1,136.95 | 1,136.85 | 4.26 | 29.38 | -145.85 | -511.75 | -347.10 | 618.36 | 584.72 | 33.64 | 18.380 | |
| 1,200.00 | 1,200.00 | 1,168.56 | 1,168.45 | 4.32 | 30.21 | -145.85 | -511.78 | -347.10 | 618.38 | 583.85 | 34.53 | 17.908 | |
| 1,300.00 | 1,300.00 | 1,266.31 | 1,266.20 | 4.51 | 32.77 | -145.87 | -512.13 | -347.10 | 618.68 | 581.41 | 37.27 | 16.599 | |
| 1,400.00 | 1,400.00 | 1,364.08 | 1,363.96 | 4.68 | 35.32 | -145.91 | -512.93 | -347.10 | 619.35 | 579.35 | 40.01 | 15.482 | |
| 1,500.00 | 1,500.00 | 1,469.45 | 1,469.20 | 4.86 | 37.94 | -145.92 | -513.06 | -347.10 | 619.44 | 576.64 | 42.80 | 14.473 | |
| 1,600.00 | 1,600.00 | 1,569.45 | 1,569.20 | 5.03 | 40.41 | -145.92 | -513.06 | -347.10 | 619.44 | 574.01 | 45.44 | 13.634 | |
| 1,639.70 | 1,639.70 | 1,608.70 | 1,608.42 | 5.09 | 41.38 | -145.83 | -511.40 | -347.10 | 618.06 | 571.59 | 46.47 | 13.301 | |
| 1,700.00 | 1,700.00 | 1,666.95 | 1,666.67 | 5.19 | 42.82 | -145.84 | -511.57 | -347.10 | 618.21 | 570.20 | 48.00 | 12.878 | |
| 1,800.00 | 1,800.00 | 1,763.57 | 1,763.27 | 5.35 | 45.20 | -145.89 | -512.37 | -347.10 | 618.90 | 568.35 | 50.55 | 12.244 | |
| 1,900.00 | 1,900.00 | 1,869.60 | 1,869.20 | 5.51 | 47.89 | -145.92 | -513.06 | -347.10 | 619.44 | 566.05 | 53.40 | 11.601 | |
| 2,000.00 | 2,000.00 | 1,969.60 | 1,969.20 | 5.66 | 50.49 | -145.92 | -513.06 | -347.10 | 619.44 | 563.29 | 56.15 | 11.032 | |
| 2,100.00 | 2,099.99 | 2,069.42 | 2,069.00 | 5.79 | 53.09 | 42.86 | -511.72 | -347.10 | 617.69 | 558.82 | 58.87 | 10.492 | |
| 2,200.00 | 2,199.96 | 2,167.21 | 2,166.78 | 5.90 | 55.63 | 43.02 | -511.97 | -347.10 | 615.98 | 554.45 | 61.53 | 10.012 | |
| 2,300.00 | 2,299.86 | 2,264.99 | 2,264.55 | 6.04 | 58.17 | 43.27 | -512.64 | -347.10 | 613.36 | 549.18 | 64.19 | 9.556 | |
| 2,400.00 | 2,399.68 | 2,369.45 | 2,368.88 | 6.19 | 61.09 | 43.69 | -513.06 | -347.10 | 609.26 | 542.03 | 67.23 | 9.062 | |
| 2,500.00 | 2,499.37 | 2,469.14 | 2,468.57 | 6.36 | 64.00 | 44.24 | -513.06 | -347.10 | 603.61 | 533.32 | 70.29 | 8.588 | |
| 2,600.00 | 2,598.90 | 2,568.10 | 2,567.50 | 6.56 | 66.90 | 45.03 | -511.24 | -347.10 | 595.29 | 521.96 | 73.33 | 8.118 | |
| 2,700.00 | 2,698.26 | 2,664.65 | 2,664.03 | 6.77 | 69.72 | 45.82 | -511.65 | -347.10 | 587.66 | 511.35 | 76.31 | 7.701 | |
| 2,800.00 | 2,797.40 | 2,761.17 | 2,760.53 | 7.01 | 72.54 | 46.72 | -512.65 | -347.10 | 579.43 | 500.12 | 79.30 | 7.307 | |
| 2,900.00 | 2,896.30 | 2,866.37 | 2,865.50 | 7.28 | 75.45 | 47.90 | -513.06 | -347.10 | 569.64 | 487.24 | 82.40 | 6.913 | |
| 3,000.00 | 2,994.93 | 2,959.89 | 2,958.98 | 7.56 | 77.98 | 49.21 | -512.43 | -347.10 | 558.17 | 473.06 | 85.12 | 6.558 | |
| 3,100.00 | 3,093.26 | 3,063.45 | 3,062.46 | 7.86 | 80.77 | 50.76 | -513.06 | -347.10 | 546.80 | 458.70 | 88.10 | 6.207 | |
| 3,200.00 | 3,191.25 | 3,161.44 | 3,160.45 | 8.19 | 83.39 | 52.49 | -513.06 | -347.10 | 534.27 | 443.35 | 90.92 | 5.876 | |
| 3,278.16 | 3,267.59 | 3,237.79 | 3,236.79 | 8.43 | 85.43 | 54.01 | -513.06 | -347.10 | 524.08 | 430.99 | 93.10 | 5.629 | |
| 3,300.00 | 3,288.88 | 3,258.72 | 3,257.70 | 8.49 | 85.99 | 54.57 | -511.22 | -347.10 | 519.91 | 426.23 | 93.68 | 5.550 | |
| 3,400.00 | 3,386.41 | 3,354.25 | 3,353.21 | 8.86 | 88.54 | 56.49 | -511.60 | -347.10 | 507.45 | 411.00 | 96.45 | 5.261 | |
| 3,500.00 | 3,483.93 | 3,450.06 | 3,449.00 | 9.22 | 91.10 | 58.47 | -512.56 | -347.10 | 496.02 | 396.80 | 99.21 | 4.999 | |
| 3,600.00 | 3,581.45 | 3,551.84 | 3,550.65 | 9.60 | 94.31 | 60.70 | -513.06 | -347.10 | 484.93 | 382.31 | 102.62 | 4.726 | |
| 3,700.00 | 3,678.97 | 3,649.36 | 3,648.17 | 9.98 | 97.63 | 62.99 | -513.06 | -347.10 | 474.28 | 368.15 | 106.13 | 4.469 | |
| 3,800.00 | 3,776.49 | 3,746.89 | 3,745.69 | 10.37 | 100.96 | 65.37 | -513.06 | -347.10 | 464.45 | 354.80 | 109.65 | 4.236 | |
| 3,900.00 | 3,874.02 | 3,844.41 | 3,843.22 | 10.77 | 104.28 | 67.85 | -513.06 | -347.10 | 455.47 | 342.32 | 113.16 | 4.025 | |
| 4,000.00 | 3,971.54 | 3,941.93 | 3,940.74 | 11.18 | 107.61 | 70.42 | -513.06 | -347.10 | 447.42 | 330.75 | 116.66 | 3.835 | |

PERMIAN RESOURCES

# Phoenix Technology Services

## Anticollision Report

PHOENIX TECHNOLOGY SERVICES

| | | | |
|---|---|---|---|
| **Company:** | Permian Resources | **Local Co-ordinate Reference:** | Well Dawson 34 Fed Com 204H |
| **Project:** | Eddy County, NM (NAD83 - NME) | **TVD Reference:** | RKB @ 3333.80usft (TBD) |
| **Reference Site:** | Dawson 34 Fed Com | **MD Reference:** | RKB @ 3333.80usft (TBD) |
| **Site Error:** | 0.00 | **North Reference:** | Grid |
| **Reference Well:** | Dawson 34 Fed Com 204H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 1.00 | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | OH | **Database:** | USAEDMDB |
| **Reference Design:** | Plan 1 07-26-23 | **Offset TVD Reference:** | Offset Datum |

**Offset Design** DWU Federal 006 - OH - Surveys — **Offset Site Error:** 0.00 usft

**Survey Program:** 220-INC-ONLY — **Offset Well Error:** 1.00 usft

| Reference Measured Depth (usft) | Reference Vertical Depth (usft) | Offset Measured Depth (usft) | Offset Vertical Depth (usft) | Semi Major Axis Reference (usft) | Semi Major Axis Offset (usft) | Highside Toolface (°) | Offset Wellbore Center +N/-S (usft) | Offset Wellbore Center +E/-W (usft) | Distance Between Centers (usft) | Distance Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4,100.00 | 4,069.06 | 4,039.08 | 4,037.84 | 11.59 | 110.92 | 73.41 | -510.02 | -347.10 | 439.00 | 318.85 | 120.15 | 3.654 | |
| 4,200.00 | 4,166.58 | 4,136.24 | 4,134.99 | 12.01 | 114.23 | 76.10 | -510.35 | -347.10 | 433.18 | 309.54 | 123.65 | 3.503 | |
| 4,300.00 | 4,264.10 | 4,233.52 | 4,232.26 | 12.43 | 117.55 | 78.82 | -510.94 | -347.10 | 428.49 | 301.33 | 127.16 | 3.370 | |
| 4,400.00 | 4,361.63 | 4,330.93 | 4,329.65 | 12.86 | 120.87 | 81.57 | -511.79 | -347.10 | 424.91 | 294.23 | 130.68 | 3.252 | |
| 4,500.00 | 4,459.15 | 4,428.46 | 4,427.16 | 13.29 | 124.19 | 84.32 | -512.90 | -347.10 | 422.45 | 288.22 | 134.23 | 3.147 | |
| 4,600.00 | 4,556.67 | 4,527.25 | 4,525.87 | 13.72 | 126.17 | 87.26 | -513.06 | -347.10 | 420.82 | 284.38 | 136.44 | 3.084 | |
| 4,693.13 | 4,647.49 | 4,618.07 | 4,616.69 | 14.13 | 127.81 | 90.00 | -513.06 | -347.10 | 420.32 | 282.00 | 138.32 | 3.039 | CC |
| 4,700.00 | 4,654.19 | 4,624.78 | 4,623.39 | 14.16 | 127.93 | 90.20 | -513.06 | -347.10 | 420.32 | 281.86 | 138.46 | 3.036 | |
| 4,800.00 | 4,751.71 | 4,722.26 | 4,720.87 | 14.60 | 129.69 | 93.24 | -512.29 | -347.10 | 420.91 | 280.41 | 140.50 | 2.996 | |
| 4,900.00 | 4,849.24 | 4,819.77 | 4,818.38 | 15.04 | 131.44 | 96.13 | -512.52 | -347.10 | 422.78 | 280.21 | 142.57 | 2.965 | ES |
| 5,000.00 | 4,946.76 | 4,917.40 | 4,916.00 | 15.48 | 133.20 | 98.96 | -513.00 | -347.10 | 425.77 | 281.09 | 144.68 | 2.943 | |
| 5,100.00 | 5,044.28 | 5,014.91 | 5,013.48 | 15.93 | 135.39 | 101.80 | -513.06 | -347.10 | 429.85 | 282.60 | 147.25 | 2.919 | |
| 5,200.00 | 5,141.80 | 5,112.43 | 5,111.00 | 16.38 | 137.63 | 104.58 | -513.06 | -347.10 | 435.02 | 285.12 | 149.90 | 2.902 | |
| 5,300.00 | 5,239.32 | 5,210.00 | 5,208.57 | 16.83 | 139.86 | 107.41 | -512.23 | -347.10 | 441.37 | 288.79 | 152.58 | 2.893 | |
| 5,400.00 | 5,336.85 | 5,307.77 | 5,306.34 | 17.28 | 142.11 | 110.03 | -512.42 | -347.10 | 448.60 | 293.31 | 155.29 | 2.889 | |
| 5,500.00 | 5,434.37 | 5,405.66 | 5,404.23 | 17.73 | 144.35 | 112.54 | -512.85 | -347.10 | 456.71 | 298.69 | 158.02 | 2.890 | |
| 5,600.00 | 5,531.89 | 5,502.67 | 5,501.09 | 18.19 | 147.01 | 114.96 | -513.06 | -347.10 | 465.75 | 304.56 | 161.19 | 2.889 | |
| 5,700.00 | 5,629.41 | 5,600.86 | 5,599.26 | 18.65 | 149.96 | 117.47 | -512.00 | -347.10 | 476.05 | 311.38 | 164.67 | 2.891 | |
| 5,800.00 | 5,726.93 | 5,701.00 | 5,699.36 | 19.10 | 152.96 | 119.68 | -513.08 | -347.10 | 486.45 | 318.24 | 168.21 | 2.892 | |
| 5,900.00 | 5,824.46 | 5,795.56 | 5,793.69 | 19.56 | 156.57 | 121.91 | -511.83 | -347.10 | 498.45 | 326.08 | 172.37 | 2.892 | |
| 6,000.00 | 5,921.98 | 5,893.37 | 5,891.18 | 20.02 | 160.30 | 123.86 | -513.06 | -347.10 | 510.16 | 333.51 | 176.65 | 2.888 | |
| 6,100.00 | 6,019.50 | 5,991.10 | 5,988.70 | 20.49 | 164.22 | 125.84 | -513.06 | -347.10 | 523.02 | 341.88 | 181.14 | 2.887 | SF |
| 6,200.00 | 6,117.02 | 6,092.22 | 6,089.77 | 20.95 | 167.36 | 127.87 | -512.15 | -347.10 | 536.94 | 352.07 | 184.87 | 2.904 | |
| 6,300.00 | 6,214.54 | 6,186.29 | 6,183.74 | 21.41 | 169.82 | 129.52 | -513.06 | -347.10 | 550.50 | 362.62 | 187.88 | 2.930 | |
| 6,400.00 | 6,312.07 | 6,286.01 | 6,283.45 | 21.88 | 172.04 | 131.30 | -512.60 | -347.10 | 565.29 | 374.61 | 190.68 | 2.965 | |
| 6,500.00 | 6,409.59 | 6,381.39 | 6,378.79 | 22.34 | 174.23 | 132.85 | -513.06 | -347.10 | 580.06 | 386.63 | 193.42 | 2.999 | |
| 6,600.00 | 6,507.11 | 6,479.13 | 6,476.52 | 22.81 | 176.52 | 134.45 | -512.30 | -347.10 | 595.97 | 399.67 | 196.30 | 3.036 | |
| 6,700.00 | 6,604.63 | 6,579.65 | 6,577.03 | 23.27 | 178.89 | 135.92 | -512.76 | -347.10 | 611.58 | 412.35 | 199.24 | 3.070 | |
| 6,800.00 | 6,702.15 | 6,674.05 | 6,671.35 | 23.74 | 181.24 | 137.24 | -513.06 | -347.10 | 627.64 | 425.50 | 202.14 | 3.105 | |
| 6,900.00 | 6,799.68 | 6,773.02 | 6,770.30 | 24.21 | 183.78 | 138.65 | -512.10 | -347.10 | 644.87 | 439.61 | 205.26 | 3.142 | |
| 7,000.00 | 6,897.20 | 6,876.00 | 6,873.18 | 24.68 | 186.42 | 139.90 | -513.06 | -347.10 | 661.20 | 452.73 | 208.47 | 3.172 | |
| 7,100.00 | 6,994.72 | 6,966.74 | 6,963.92 | 25.15 | 188.67 | 141.01 | -513.06 | -347.10 | 678.39 | 467.14 | 211.25 | 3.211 | |
| 7,200.00 | 7,092.24 | 7,067.48 | 7,064.64 | 25.62 | 191.16 | 142.23 | -512.23 | -347.10 | 696.48 | 482.16 | 214.32 | 3.250 | |
| 7,300.00 | 7,189.77 | 7,161.90 | 7,158.97 | 26.09 | 193.52 | 143.23 | -513.06 | -347.10 | 713.65 | 496.44 | 217.21 | 3.286 | |
| 7,400.00 | 7,287.29 | 7,260.05 | 7,257.10 | 26.56 | 196.05 | 144.30 | -512.37 | -347.10 | 732.14 | 511.84 | 220.30 | 3.323 | |
| 7,500.00 | 7,384.81 | 7,357.04 | 7,354.01 | 27.03 | 198.56 | 145.24 | -513.06 | -347.10 | 749.86 | 526.52 | 223.34 | 3.357 | |
| 7,600.00 | 7,482.33 | 7,456.26 | 7,453.21 | 27.50 | 201.43 | 146.22 | -512.34 | -347.10 | 768.82 | 542.05 | 226.77 | 3.390 | |
| 7,700.00 | 7,579.85 | 7,552.20 | 7,549.05 | 27.97 | 204.35 | 147.06 | -513.06 | -347.10 | 786.89 | 556.67 | 230.22 | 3.418 | |
| 7,800.00 | 7,677.38 | 7,649.72 | 7,646.58 | 28.45 | 207.72 | 147.91 | -513.06 | -347.10 | 805.68 | 571.56 | 234.12 | 3.441 | |
| 7,900.00 | 7,774.90 | 7,757.22 | 7,754.01 | 28.92 | 211.42 | 148.82 | -512.58 | -347.10 | 825.07 | 586.67 | 238.40 | 3.461 | |
| 8,000.00 | 7,872.42 | 7,845.07 | 7,841.62 | 29.39 | 214.78 | 149.50 | -513.06 | -347.10 | 843.75 | 601.49 | 242.25 | 3.483 | |
| 8,100.00 | 7,969.94 | 7,942.81 | 7,939.14 | 29.87 | 218.66 | 150.24 | -513.06 | -347.10 | 863.00 | 616.34 | 246.66 | 3.499 | |
| 8,200.00 | 8,067.46 | 8,040.54 | 8,036.66 | 30.34 | 222.48 | 150.95 | -513.06 | -347.10 | 882.39 | 631.38 | 251.01 | 3.515 | |
| 8,300.00 | 8,164.99 | 8,148.93 | 8,145.02 | 30.82 | 226.14 | 151.72 | -512.45 | -347.10 | 902.46 | 647.22 | 255.24 | 3.536 | |
| 8,400.00 | 8,262.51 | 8,235.73 | 8,231.71 | 31.29 | 228.98 | 152.28 | -513.06 | -347.10 | 921.53 | 662.97 | 258.56 | 3.564 | |

CC - Min center to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

PERMIAN RESOURCES

# Phoenix Technology Services

## Anticollision Report

PHOENIX TECHNOLOGY SERVICES

| | | | |
|---|---|---|---|
| **Company:** | Permian Resources | **Local Co-ordinate Reference:** | Well Dawson 34 Fed Com 204H |
| **Project:** | Eddy County, NM (NAD83 - NME) | **TVD Reference:** | RKB @ 3333.80usft (TBD) |
| **Reference Site:** | Dawson 34 Fed Com | **MD Reference:** | RKB @ 3333.80usft (TBD) |
| **Site Error:** | 0.00 | **North Reference:** | Grid |
| **Reference Well:** | Dawson 34 Fed Com 204H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 1.00 | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | OH | **Database:** | USAEDMDB |
| **Reference Design:** | Plan 1 07-26-23 | **Offset TVD Reference:** | Offset Datum |

**Offset Design** DWU Federal 006 - OH - Surveys — **Offset Site Error:** 0.00 usft

**Survey Program:** 220-INC-ONLY — **Offset Well Error:** 1.00 usft

| Reference Measured Depth (usft) | Reference Vertical Depth (usft) | Offset Measured Depth (usft) | Offset Vertical Depth (usft) | Semi Major Axis Reference (usft) | Semi Major Axis Offset (usft) | Highside Toolface (°) | Offset Wellbore Center +N/-S (usft) | Offset Wellbore Center +E/-W (usft) | Distance Between Centers (usft) | Distance Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8,500.00 | 8,360.03 | 8,333.25 | 8,329.23 | 31.77 | 232.11 | 152.90 | -513.06 | -347.10 | 941.28 | 679.06 | 262.21 | 3.590 | |
| 8,600.00 | 8,457.55 | 8,438.89 | 8,434.81 | 32.24 | 235.50 | 153.59 | -511.83 | -347.10 | 962.17 | 696.01 | 266.16 | 3.615 | |
| 8,636.55 | 8,493.19 | 8,478.27 | 8,474.18 | 32.41 | 236.76 | 153.80 | -512.32 | -347.10 | 969.09 | 701.47 | 267.62 | 3.621 | |
| 8,650.00 | 8,506.32 | 8,492.79 | 8,488.70 | 32.47 | 237.23 | 146.51 | -512.54 | -347.10 | 971.50 | 703.34 | 268.15 | 3.623 | |
| 8,675.00 | 8,530.70 | 8,519.81 | 8,515.70 | 32.58 | 238.10 | 133.17 | -513.02 | -347.10 | 975.37 | 706.23 | 269.15 | 3.624 | |
| 8,700.00 | 8,555.02 | 8,528.54 | 8,524.22 | 32.69 | 238.38 | 120.96 | -513.06 | -347.10 | 978.72 | 709.22 | 269.50 | 3.632 | |
| 8,725.00 | 8,579.22 | 8,552.73 | 8,548.42 | 32.78 | 239.18 | 110.95 | -513.06 | -347.10 | 981.52 | 711.11 | 270.41 | 3.630 | |
| 8,750.00 | 8,603.22 | 8,576.73 | 8,572.42 | 32.86 | 239.98 | 103.04 | -513.06 | -347.10 | 983.61 | 712.30 | 271.31 | 3.625 | |
| 8,775.00 | 8,626.95 | 8,600.47 | 8,596.15 | 32.93 | 240.76 | 96.96 | -513.06 | -347.10 | 985.02 | 712.81 | 272.20 | 3.619 | |
| 8,800.00 | 8,650.37 | 8,624.92 | 8,620.58 | 33.00 | 241.57 | 92.39 | -512.00 | -347.10 | 986.65 | 713.53 | 273.12 | 3.613 | |
| 8,825.00 | 8,673.39 | 8,653.32 | 8,648.97 | 33.05 | 242.51 | 89.03 | -512.13 | -347.10 | 986.65 | 712.47 | 274.18 | 3.599 | |
| 8,850.00 | 8,695.96 | 8,681.26 | 8,676.90 | 33.10 | 243.43 | 86.57 | -512.43 | -347.10 | 985.92 | 710.70 | 275.22 | 3.582 | |
| 8,875.00 | 8,718.01 | 8,708.64 | 8,704.26 | 33.14 | 244.34 | 84.83 | -512.89 | -347.10 | 984.50 | 708.26 | 276.23 | 3.564 | |
| 8,900.00 | 8,739.49 | 8,735.38 | 8,730.99 | 33.17 | 245.22 | 83.67 | -513.50 | -347.10 | 982.42 | 705.19 | 277.22 | 3.544 | |
| 8,925.00 | 8,760.34 | 8,734.04 | 8,729.54 | 33.21 | 245.18 | 82.08 | -513.06 | -347.10 | 980.39 | 703.16 | 277.23 | 3.536 | |
| 8,950.00 | 8,780.49 | 8,754.20 | 8,749.69 | 33.24 | 245.86 | 81.53 | -513.06 | -347.10 | 977.78 | 699.77 | 278.01 | 3.517 | |
| 8,975.00 | 8,799.90 | 8,773.60 | 8,769.10 | 33.27 | 246.50 | 81.28 | -513.06 | -347.10 | 974.76 | 695.98 | 278.77 | 3.497 | |
| 9,000.00 | 8,818.51 | 8,792.21 | 8,787.71 | 33.29 | 247.12 | 81.27 | -513.06 | -347.10 | 971.38 | 691.87 | 279.51 | 3.475 | |
| 9,025.00 | 8,836.27 | 8,809.97 | 8,805.47 | 33.32 | 247.71 | 81.46 | -513.06 | -347.10 | 967.69 | 687.47 | 280.23 | 3.453 | |
| 9,050.00 | 8,853.12 | 8,826.83 | 8,822.32 | 33.36 | 248.28 | 81.82 | -513.06 | -347.10 | 963.76 | 682.84 | 280.92 | 3.431 | |
| 9,075.00 | 8,869.04 | 8,842.74 | 8,838.24 | 33.39 | 248.81 | 82.31 | -513.06 | -347.10 | 959.63 | 678.05 | 281.58 | 3.408 | |
| 9,100.00 | 8,883.96 | 8,857.66 | 8,853.16 | 33.43 | 249.30 | 82.90 | -513.06 | -347.10 | 955.36 | 673.15 | 282.21 | 3.385 | |
| 9,125.00 | 8,897.85 | 8,873.15 | 8,868.61 | 33.47 | 249.82 | 83.66 | -511.50 | -347.10 | 952.48 | 669.61 | 282.87 | 3.367 | |
| 9,150.00 | 8,910.68 | 8,888.01 | 8,883.46 | 33.52 | 250.32 | 84.47 | -511.54 | -347.10 | 948.09 | 664.57 | 283.52 | 3.344 | |
| 9,175.00 | 8,922.40 | 8,901.60 | 8,897.05 | 33.58 | 250.77 | 85.32 | -511.61 | -347.10 | 943.71 | 659.59 | 284.13 | 3.321 | |
| 9,200.00 | 8,932.98 | 8,913.88 | 8,909.33 | 33.65 | 251.18 | 86.16 | -511.70 | -347.10 | 939.40 | 654.72 | 284.69 | 3.300 | |
| 9,225.00 | 8,942.40 | 8,924.83 | 8,920.27 | 33.73 | 251.54 | 86.98 | -511.79 | -347.10 | 935.23 | 650.03 | 285.20 | 3.279 | |
| 9,250.00 | 8,950.64 | 8,934.40 | 8,929.84 | 33.81 | 251.86 | 87.77 | -511.89 | -347.10 | 931.23 | 645.57 | 285.67 | 3.260 | |
| 9,275.00 | 8,957.65 | 8,942.57 | 8,938.01 | 33.91 | 252.13 | 88.50 | -511.99 | -347.10 | 927.48 | 641.40 | 286.08 | 3.242 | |
| 9,300.00 | 8,963.44 | 8,949.30 | 8,944.74 | 34.02 | 252.36 | 89.15 | -512.07 | -347.10 | 924.00 | 637.56 | 286.45 | 3.226 | |
| 9,325.00 | 8,967.98 | 8,954.59 | 8,950.02 | 34.14 | 252.53 | 89.73 | -512.14 | -347.10 | 920.85 | 634.10 | 286.75 | 3.211 | |
| 9,350.00 | 8,971.26 | 8,958.41 | 8,953.84 | 34.27 | 252.66 | 90.20 | -512.20 | -347.10 | 918.05 | 631.05 | 287.00 | 3.199 | |
| 9,375.00 | 8,973.26 | 8,960.76 | 8,956.19 | 34.41 | 252.74 | 90.58 | -512.23 | -347.10 | 915.63 | 628.44 | 287.20 | 3.188 | |
| 9,400.00 | 8,974.00 | 8,961.61 | 8,957.04 | 34.56 | 252.77 | 90.85 | -512.25 | -347.10 | 913.61 | 626.29 | 287.33 | 3.180 | |
| 9,401.86 | 8,974.00 | 8,961.62 | 8,957.05 | 34.57 | 252.77 | 90.87 | -512.25 | -347.10 | 913.48 | 626.15 | 287.33 | 3.179 | |
| 9,466.93 | 8,974.00 | 8,961.62 | 8,957.05 | 35.04 | 252.77 | 90.87 | -512.25 | -347.10 | 911.16 | 623.60 | 287.56 | 3.169 | |
| 9,500.00 | 8,974.00 | 8,961.63 | 8,957.06 | 35.27 | 252.77 | 90.87 | -512.25 | -347.10 | 911.76 | 624.14 | 287.62 | 3.170 | |
| 9,600.00 | 8,974.00 | 8,961.64 | 8,957.07 | 36.12 | 252.77 | 90.87 | -512.25 | -347.10 | 920.83 | 633.13 | 287.70 | 3.201 | |
| 9,700.00 | 8,974.00 | 8,961.65 | 8,957.08 | 37.09 | 252.77 | 90.87 | -512.25 | -347.10 | 940.50 | 652.92 | 287.58 | 3.270 | |
| 9,800.00 | 8,974.00 | 8,961.66 | 8,957.09 | 38.17 | 252.77 | 90.87 | -512.25 | -347.10 | 970.13 | 682.84 | 287.29 | 3.377 | |
| 9,900.00 | 8,974.00 | 8,961.67 | 8,957.10 | 39.35 | 252.77 | 90.87 | -512.25 | -347.10 | 1,008.84 | 721.98 | 286.86 | 3.517 | |
| 10,000.00 | 8,974.00 | 8,961.68 | 8,957.11 | 40.62 | 252.77 | 90.87 | -512.25 | -347.10 | 1,055.64 | 769.28 | 286.36 | 3.686 | |
| 10,100.00 | 8,974.00 | 8,961.68 | 8,957.11 | 41.98 | 252.77 | 90.88 | -512.25 | -347.10 | 1,109.50 | 823.69 | 285.81 | 3.882 | |

PERMIAN RESOURCES

# Phoenix Technology Services

## Anticollision Report

PHOENIX TECHNOLOGY SERVICES

| | | | |
|---|---|---|---|
| **Company:** | Permian Resources | **Local Co-ordinate Reference:** | Well Dawson 34 Fed Com 204H |
| **Project:** | Eddy County, NM (NAD83 - NME) | **TVD Reference:** | RKB @ 3333.80usft (TBD) |
| **Reference Site:** | Dawson 34 Fed Com | **MD Reference:** | RKB @ 3333.80usft (TBD) |
| **Site Error:** | 0.00 | **North Reference:** | Grid |
| **Reference Well:** | Dawson 34 Fed Com 204H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 1.00 | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | OH | **Database:** | USAEDMDB |
| **Reference Design:** | Plan 1 07-26-23 | **Offset TVD Reference:** | Offset Datum |

**Offset Design** OXY 33 Federal 001 - OH - Surveys — **Offset Site Error:** 0.00 usft

**Survey Program:** 230-INC-ONLY — **Offset Well Error:** 1.00 usft

| Reference Measured Depth (usft) | Reference Vertical Depth (usft) | Offset Measured Depth (usft) | Offset Vertical Depth (usft) | Semi Major Axis Reference (usft) | Semi Major Axis Offset (usft) | Highside Toolface (°) | Offset Wellbore Center +N/-S (usft) | Offset Wellbore Center +E/-W (usft) | Distance Between Centers (usft) | Distance Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 13,900.00 | 8,974.00 | 8,950.44 | 8,947.20 | 117.80 | 227.78 | -90.00 | -2,011.92 | -5,693.71 | 1,077.96 | 793.63 | 284.33 | 3.791 | |
| 14,000.00 | 8,974.00 | 8,950.44 | 8,947.20 | 120.02 | 227.78 | -90.00 | -2,011.92 | -5,693.71 | 993.80 | 703.38 | 290.42 | 3.422 | |
| 14,100.00 | 8,974.00 | 8,950.44 | 8,947.20 | 122.25 | 227.78 | -90.00 | -2,011.92 | -5,693.71 | 912.83 | 615.31 | 297.52 | 3.068 | |
| 14,200.00 | 8,974.00 | 8,950.44 | 8,947.20 | 124.47 | 227.78 | -90.00 | -2,011.92 | -5,693.71 | 836.00 | 530.23 | 305.78 | 2.734 | |
| 14,300.00 | 8,974.00 | 8,950.44 | 8,947.20 | 126.71 | 227.78 | -90.00 | -2,011.92 | -5,693.71 | 764.55 | 449.32 | 315.23 | 2.425 | |
| 14,400.00 | 8,974.00 | 8,950.44 | 8,947.20 | 128.94 | 227.78 | -90.00 | -2,011.92 | -5,693.71 | 700.13 | 374.32 | 325.81 | 2.149 | |
| 14,500.00 | 8,974.00 | 8,950.44 | 8,947.20 | 131.18 | 227.78 | -90.00 | -2,011.92 | -5,693.71 | 644.83 | 307.72 | 337.12 | 1.913 | |
| 14,600.00 | 8,974.00 | 8,950.44 | 8,947.20 | 133.42 | 227.78 | -90.00 | -2,011.92 | -5,693.71 | 601.20 | 252.88 | 348.32 | 1.726 | |
| 14,700.00 | 8,974.00 | 8,950.44 | 8,947.20 | 135.66 | 227.78 | -90.00 | -2,011.92 | -5,693.71 | 571.91 | 213.82 | 358.10 | 1.597 | |
| 14,800.00 | 8,974.00 | 8,950.44 | 8,947.20 | 137.91 | 227.78 | -90.00 | -2,011.92 | -5,693.71 | 559.21 | 194.33 | 364.89 | 1.533 | |
| 14,821.82 | 8,974.00 | 8,950.44 | 8,947.20 | 138.40 | 227.78 | -90.00 | -2,011.92 | -5,693.71 | 558.79 | 192.94 | 365.85 | 1.527 | CC, ES, SF |
| 14,900.00 | 8,974.00 | 8,950.44 | 8,947.20 | 140.15 | 227.78 | -90.00 | -2,011.92 | -5,693.71 | 564.23 | 196.63 | 367.60 | 1.535 | |
| 15,000.00 | 8,974.00 | 8,950.44 | 8,947.20 | 142.40 | 227.78 | -90.00 | -2,011.92 | -5,693.71 | 586.51 | 220.31 | 366.20 | 1.602 | |
| 15,100.00 | 8,974.00 | 8,950.44 | 8,947.20 | 144.66 | 227.78 | -90.00 | -2,011.92 | -5,693.71 | 624.20 | 262.57 | 361.63 | 1.726 | |
| 15,200.00 | 8,974.00 | 8,950.44 | 8,947.20 | 146.91 | 227.78 | -90.00 | -2,011.92 | -5,693.71 | 674.73 | 319.53 | 355.20 | 1.900 | |
| 15,300.00 | 8,974.00 | 8,950.44 | 8,947.20 | 149.17 | 227.78 | -90.00 | -2,011.92 | -5,693.71 | 735.46 | 387.40 | 348.06 | 2.113 | |
| 15,400.00 | 8,974.00 | 8,950.44 | 8,947.20 | 151.43 | 227.78 | -90.00 | -2,011.92 | -5,693.71 | 804.07 | 463.11 | 340.96 | 2.358 | |
| 15,500.00 | 8,974.00 | 8,950.44 | 8,947.20 | 153.69 | 227.78 | -90.00 | -2,011.92 | -5,693.71 | 878.73 | 544.43 | 334.31 | 2.629 | |
| 15,600.00 | 8,974.00 | 8,950.44 | 8,947.20 | 155.95 | 227.78 | -90.00 | -2,011.92 | -5,693.71 | 958.02 | 629.77 | 328.25 | 2.919 | |
| 15,700.00 | 8,974.00 | 8,950.44 | 8,947.20 | 158.21 | 227.78 | -90.00 | -2,011.92 | -5,693.71 | 1,040.89 | 718.04 | 322.85 | 3.224 | |
| 15,800.00 | 8,974.00 | 8,950.44 | 8,947.20 | 160.48 | 227.78 | -90.00 | -2,011.92 | -5,693.71 | 1,126.54 | 808.48 | 318.05 | 3.542 | |
| 15,900.00 | 8,974.00 | 8,950.44 | 8,947.20 | 162.75 | 227.78 | -90.00 | -2,011.92 | -5,693.71 | 1,214.38 | 900.56 | 313.82 | 3.870 | |

CC - Min center to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

PERMIAN RESOURCES

# Phoenix Technology Services

## Anticollision Report

PHOENIX TECHNOLOGY SERVICES

| | | | |
|---|---|---|---|
| **Company:** | Permian Resources | **Local Co-ordinate Reference:** | Well Dawson 34 Fed Com 204H |
| **Project:** | Eddy County, NM (NAD83 - NME) | **TVD Reference:** | RKB @ 3333.80usft (TBD) |
| **Reference Site:** | Dawson 34 Fed Com | **MD Reference:** | RKB @ 3333.80usft (TBD) |
| **Site Error:** | 0.00 | **North Reference:** | Grid |
| **Reference Well:** | Dawson 34 Fed Com 204H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 1.00 | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | OH | **Database:** | USAEDMDB |
| **Reference Design:** | Plan 1 07-26-23 | **Offset TVD Reference:** | Offset Datum |

**Offset Design** Shamrock 34 Fed Com 132H - OH - Surveys — **Offset Site Error:** 0.00 usft

**Survey Program:** 0-MWD+IFR1+SAG+FDIR — **Offset Well Error:** 1.00 usft

| Reference Measured Depth (usft) | Reference Vertical Depth (usft) | Offset Measured Depth (usft) | Offset Vertical Depth (usft) | Semi Major Axis Reference (usft) | Semi Major Axis Offset (usft) | Highside Toolface (°) | Offset Wellbore Center +N/-S (usft) | Offset Wellbore Center +E/-W (usft) | Distance Between Centers (usft) | Distance Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.00 | 0.00 | 6.21 | 6.21 | 1.00 | 1.00 | 1.76 | 119.93 | 3.69 | 119.99 | | | | |
| 100.00 | 100.00 | 106.25 | 106.25 | 1.32 | 1.03 | 1.71 | 119.90 | 3.58 | 119.96 | 117.61 | 2.35 | 51.087 | |
| 200.00 | 200.00 | 206.25 | 206.25 | 1.79 | 1.17 | 1.57 | 119.88 | 3.28 | 119.92 | 116.96 | 2.96 | 40.481 | |
| 300.00 | 300.00 | 306.64 | 306.63 | 2.17 | 1.39 | 1.14 | 119.75 | 2.38 | 119.77 | 116.21 | 3.56 | 33.645 | |
| 400.00 | 400.00 | 407.78 | 407.75 | 2.49 | 1.67 | 0.31 | 118.92 | 0.64 | 118.93 | 114.78 | 4.15 | 28.626 | |
| 500.00 | 500.00 | 508.79 | 508.72 | 2.78 | 1.97 | -0.86 | 117.16 | -1.75 | 117.20 | 112.46 | 4.74 | 24.711 | |
| 600.00 | 600.00 | 609.53 | 609.41 | 3.04 | 2.28 | -1.80 | 114.55 | -3.60 | 114.65 | 109.33 | 5.32 | 21.548 | |
| 700.00 | 700.00 | 709.50 | 709.33 | 3.28 | 2.61 | -2.30 | 111.67 | -4.48 | 111.81 | 105.92 | 5.89 | 18.994 | |
| 800.00 | 800.00 | 809.29 | 809.09 | 3.51 | 2.94 | -2.57 | 108.94 | -4.89 | 109.09 | 102.65 | 6.44 | 16.930 | |
| 900.00 | 900.00 | 909.24 | 909.00 | 3.73 | 3.27 | -2.80 | 106.31 | -5.21 | 106.47 | 99.48 | 6.99 | 15.222 | |
| 1,000.00 | 1,000.00 | 1,009.09 | 1,008.82 | 3.94 | 3.61 | -3.14 | 103.68 | -5.69 | 103.87 | 96.33 | 7.54 | 13.774 | |
| 1,100.00 | 1,100.00 | 1,108.82 | 1,108.52 | 4.13 | 3.96 | -3.48 | 101.26 | -6.16 | 101.48 | 93.39 | 8.08 | 12.558 | |
| 1,200.00 | 1,200.00 | 1,208.43 | 1,208.10 | 4.32 | 4.30 | -3.89 | 99.11 | -6.75 | 99.36 | 90.74 | 8.62 | 11.531 | |
| 1,300.00 | 1,300.00 | 1,308.07 | 1,307.72 | 4.51 | 4.65 | -4.55 | 97.31 | -7.75 | 97.63 | 88.49 | 9.15 | 10.673 | |
| 1,400.00 | 1,400.00 | 1,408.23 | 1,407.86 | 4.68 | 5.00 | -5.42 | 95.61 | -9.08 | 96.05 | 86.37 | 9.68 | 9.925 | |
| 1,500.00 | 1,500.00 | 1,508.47 | 1,508.06 | 4.86 | 5.36 | -6.27 | 93.57 | -10.28 | 94.16 | 83.95 | 10.20 | 9.229 | |
| 1,600.00 | 1,600.00 | 1,607.40 | 1,606.98 | 5.03 | 5.71 | -7.04 | 91.98 | -11.36 | 92.68 | 81.96 | 10.72 | 8.646 | |
| 1,626.66 | 1,626.66 | 1,633.28 | 1,632.86 | 5.07 | 5.80 | -7.18 | 91.81 | -11.57 | 92.53 | 81.68 | 10.85 | 8.525 | CC, ES |
| 1,700.00 | 1,700.00 | 1,703.26 | 1,702.81 | 5.19 | 6.02 | -6.72 | 93.61 | -11.02 | 94.31 | 83.12 | 11.19 | 8.427 | |
| 1,800.00 | 1,800.00 | 1,803.10 | 1,802.57 | 5.35 | 6.35 | -6.23 | 97.34 | -10.62 | 97.99 | 86.31 | 11.68 | 8.391 | |
| 1,900.00 | 1,900.00 | 1,903.00 | 1,902.40 | 5.51 | 6.68 | -5.71 | 101.13 | -10.12 | 101.70 | 89.54 | 12.16 | 8.362 | |
| 2,000.00 | 2,000.00 | 2,002.73 | 2,002.06 | 5.66 | 7.01 | -5.22 | 105.01 | -9.60 | 105.53 | 92.88 | 12.65 | 8.344 | SF |
| 2,100.00 | 2,099.99 | 2,102.47 | 2,101.71 | 5.79 | 7.34 | -176.16 | 109.06 | -9.12 | 110.40 | 97.29 | 13.11 | 8.422 | |
| 2,200.00 | 2,199.96 | 2,202.12 | 2,201.28 | 5.90 | 7.68 | -175.83 | 113.19 | -8.64 | 117.11 | 103.54 | 13.56 | 8.636 | |
| 2,300.00 | 2,299.86 | 2,301.47 | 2,300.53 | 6.04 | 8.01 | -175.65 | 117.51 | -8.28 | 125.75 | 111.72 | 14.03 | 8.964 | |
| 2,400.00 | 2,399.68 | 2,400.88 | 2,399.84 | 6.19 | 8.35 | -175.58 | 121.94 | -7.99 | 136.24 | 121.73 | 14.52 | 9.384 | |
| 2,500.00 | 2,499.37 | 2,500.15 | 2,499.01 | 6.36 | 8.69 | -175.49 | 126.37 | -7.52 | 148.47 | 133.44 | 15.03 | 9.878 | |
| 2,600.00 | 2,598.90 | 2,599.05 | 2,597.81 | 6.56 | 9.03 | -175.47 | 130.80 | -7.07 | 162.42 | 146.86 | 15.56 | 10.437 | |
| 2,700.00 | 2,698.26 | 2,697.56 | 2,696.21 | 6.77 | 9.37 | -175.46 | 135.36 | -6.51 | 178.25 | 162.13 | 16.12 | 11.060 | |
| 2,800.00 | 2,797.40 | 2,795.54 | 2,794.08 | 7.01 | 9.70 | -175.47 | 140.04 | -5.92 | 195.92 | 179.23 | 16.69 | 11.738 | |
| 2,900.00 | 2,896.30 | 2,893.16 | 2,891.57 | 7.28 | 10.04 | -175.58 | 144.97 | -5.61 | 215.60 | 198.31 | 17.29 | 12.472 | |
| 3,000.00 | 2,994.93 | 2,990.55 | 2,988.84 | 7.56 | 10.38 | -175.79 | 149.95 | -5.68 | 237.07 | 219.17 | 17.90 | 13.241 | |
| 3,100.00 | 3,093.26 | 3,087.38 | 3,085.53 | 7.86 | 10.72 | -176.01 | 155.09 | -5.81 | 260.44 | 241.90 | 18.54 | 14.047 | |
| 3,200.00 | 3,191.25 | 3,183.92 | 3,181.93 | 8.19 | 11.05 | -176.24 | 160.22 | -6.09 | 285.52 | 266.32 | 19.19 | 14.875 | |
| 3,278.16 | 3,267.59 | 3,257.04 | 3,254.93 | 8.43 | 11.31 | -176.32 | 164.48 | -5.92 | 306.64 | 286.95 | 19.68 | 15.578 | |
| 3,300.00 | 3,288.88 | 3,275.54 | 3,273.39 | 8.49 | 11.37 | -176.31 | 165.70 | -5.70 | 312.83 | 293.03 | 19.80 | 15.800 | |
| 3,400.00 | 3,386.41 | 3,366.81 | 3,364.30 | 8.86 | 11.69 | -175.84 | 173.11 | -2.37 | 342.43 | 321.98 | 20.45 | 16.744 | |
| 3,500.00 | 3,483.93 | 3,457.47 | 3,454.45 | 9.22 | 12.01 | -175.19 | 181.35 | 2.46 | 372.87 | 351.78 | 21.09 | 17.678 | |
| 3,600.00 | 3,581.45 | 3,549.88 | 3,545.93 | 9.60 | 12.33 | -174.09 | 191.32 | 10.81 | 404.79 | 383.04 | 21.75 | 18.607 | |
| 3,700.00 | 3,678.97 | 3,647.03 | 3,642.23 | 9.98 | 12.67 | -173.25 | 201.44 | 18.64 | 436.51 | 414.04 | 22.47 | 19.427 | |
| 3,800.00 | 3,776.49 | 3,743.37 | 3,737.79 | 10.37 | 13.00 | -172.53 | 211.06 | 26.31 | 467.88 | 444.70 | 23.18 | 20.181 | |
| 3,900.00 | 3,874.02 | 3,840.77 | 3,834.17 | 10.77 | 13.34 | -171.57 | 220.30 | 36.87 | 498.83 | 474.92 | 23.91 | 20.863 | |
| 4,000.00 | 3,971.54 | 3,939.15 | 3,931.57 | 11.18 | 13.69 | -170.71 | 229.07 | 47.53 | 529.34 | 504.69 | 24.65 | 21.474 | |
| 4,100.00 | 4,069.06 | 4,032.72 | 4,024.29 | 11.59 | 14.02 | -170.03 | 237.19 | 57.23 | 559.70 | 534.34 | 25.36 | 22.073 | |
| 4,200.00 | 4,166.58 | 4,122.21 | 4,112.89 | 12.01 | 14.33 | -169.44 | 245.59 | 66.58 | 590.80 | 564.76 | 26.03 | 22.692 | |
| 4,300.00 | 4,264.10 | 4,214.63 | 4,204.33 | 12.43 | 14.66 | -168.89 | 254.90 | 76.23 | 622.62 | 595.88 | 26.74 | 23.283 | |

CC - Min center to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

PERMIAN RESOURCES

# Phoenix Technology Services

## Anticollision Report

PHOENIX TECHNOLOGY SERVICES

| | | | |
|---|---|---|---|
| **Company:** | Permian Resources | **Local Co-ordinate Reference:** | Well Dawson 34 Fed Com 204H |
| **Project:** | Eddy County, NM (NAD83 - NME) | **TVD Reference:** | RKB @ 3333.80usft (TBD) |
| **Reference Site:** | Dawson 34 Fed Com | **MD Reference:** | RKB @ 3333.80usft (TBD) |
| **Site Error:** | 0.00 | **North Reference:** | Grid |
| **Reference Well:** | Dawson 34 Fed Com 204H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 1.00 | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | OH | **Database:** | USAEDMDB |
| **Reference Design:** | Plan 1 07-26-23 | **Offset TVD Reference:** | Offset Datum |

**Offset Design** Shamrock 34 Fed Com 132H - OH - Surveys — **Offset Site Error:** 0.00 usft

**Survey Program:** 0-MWD+IFR1+SAG+FDIR — **Offset Well Error:** 1.00 usft

| Reference Measured Depth (usft) | Reference Vertical Depth (usft) | Offset Measured Depth (usft) | Offset Vertical Depth (usft) | Semi Major Axis Reference (usft) | Semi Major Axis Offset (usft) | Highside Toolface (°) | Offset Wellbore Center +N/-S (usft) | Offset Wellbore Center +E/-W (usft) | Distance Between Centers (usft) | Distance Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4,400.00 | 4,361.63 | 4,316.10 | 4,304.90 | 12.86 | 15.02 | -168.50 | 264.97 | 85.12 | 654.26 | 626.73 | 27.53 | 23.762 | |
| 4,500.00 | 4,459.15 | 4,424.03 | 4,411.99 | 13.29 | 15.40 | -168.07 | 273.74 | 95.23 | 684.23 | 655.86 | 28.38 | 24.113 | |
| 4,600.00 | 4,556.67 | 4,519.08 | 4,506.19 | 13.72 | 15.74 | -167.57 | 280.63 | 105.83 | 713.51 | 684.39 | 29.12 | 24.506 | |
| 4,700.00 | 4,654.19 | 4,616.82 | 4,603.22 | 14.16 | 16.08 | -167.22 | 287.74 | 115.29 | 742.76 | 712.88 | 29.88 | 24.856 | |
| 4,800.00 | 4,751.71 | 4,708.06 | 4,693.89 | 14.60 | 16.41 | -167.00 | 294.30 | 123.03 | 771.88 | 741.27 | 30.60 | 25.221 | |
| 4,900.00 | 4,849.24 | 4,778.94 | 4,764.17 | 15.04 | 16.66 | -166.78 | 300.43 | 129.82 | 802.59 | 771.43 | 31.16 | 25.759 | |
| 5,000.00 | 4,946.76 | 4,862.90 | 4,846.75 | 15.48 | 16.96 | -166.30 | 310.18 | 141.40 | 836.29 | 804.49 | 31.81 | 26.293 | |
| 5,100.00 | 5,044.28 | 4,957.51 | 4,939.81 | 15.93 | 17.30 | -165.79 | 321.06 | 154.54 | 870.02 | 837.46 | 32.55 | 26.727 | |
| 5,200.00 | 5,141.80 | 5,050.88 | 5,031.72 | 16.38 | 17.64 | -165.36 | 331.87 | 166.95 | 903.81 | 870.52 | 33.29 | 27.150 | |
| 5,300.00 | 5,239.32 | 5,146.29 | 5,125.72 | 16.83 | 17.98 | -164.99 | 342.95 | 179.02 | 937.62 | 903.57 | 34.05 | 27.537 | |
| 5,400.00 | 5,336.85 | 5,243.13 | 5,221.23 | 17.28 | 18.33 | -164.70 | 354.08 | 190.38 | 971.24 | 936.41 | 34.83 | 27.888 | |

PERMIAN RESOURCES

# Phoenix Technology Services

## Anticollision Report

PHOENIX TECHNOLOGY SERVICES

| | | | |
|---|---|---|---|
| **Company:** | Permian Resources | **Local Co-ordinate Reference:** | Well Dawson 34 Fed Com 204H |
| **Project:** | Eddy County, NM (NAD83 - NME) | **TVD Reference:** | RKB @ 3333.80usft (TBD) |
| **Reference Site:** | Dawson 34 Fed Com | **MD Reference:** | RKB @ 3333.80usft (TBD) |
| **Site Error:** | 0.00 | **North Reference:** | Grid |
| **Reference Well:** | Dawson 34 Fed Com 204H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 1.00 | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | OH | **Database:** | USAEDMDB |
| **Reference Design:** | Plan 1 07-26-23 | **Offset TVD Reference:** | Offset Datum |

**Offset Design** Shamrock 34 Federal Com 122H - OH - Surveys — **Offset Site Error:** 0.00 usft

**Survey Program:** 14-MWD+IFR1+SAG+FDIR — **Offset Well Error:** 1.00 usft

| Reference Measured Depth (usft) | Reference Vertical Depth (usft) | Offset Measured Depth (usft) | Offset Vertical Depth (usft) | Semi Major Axis Reference (usft) | Semi Major Axis Offset (usft) | Highside Toolface (°) | Offset Wellbore Center +N/-S (usft) | Offset Wellbore Center +E/-W (usft) | Distance Between Centers (usft) | Distance Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.00 | 0.00 | 6.26 | 6.26 | 1.00 | 1.00 | 1.76 | 157.41 | 4.84 | 157.48 | | | | |
| 100.00 | 100.00 | 107.25 | 107.25 | 1.32 | 1.03 | 1.80 | 157.05 | 4.93 | 157.13 | 154.78 | 2.35 | 66.891 | |
| 200.00 | 200.00 | 208.19 | 208.18 | 1.79 | 1.17 | 1.90 | 156.05 | 5.19 | 156.15 | 153.18 | 2.97 | 52.643 | |
| 300.00 | 300.00 | 308.32 | 308.30 | 2.17 | 1.40 | 2.00 | 154.64 | 5.39 | 154.75 | 151.19 | 3.56 | 43.421 | |
| 400.00 | 400.00 | 407.32 | 407.30 | 2.49 | 1.66 | 2.06 | 153.68 | 5.52 | 153.79 | 149.63 | 4.15 | 37.025 | |
| 500.00 | 500.00 | 508.37 | 508.33 | 2.78 | 1.97 | 2.26 | 152.37 | 6.01 | 152.51 | 147.76 | 4.74 | 32.158 | |
| 600.00 | 600.00 | 608.26 | 608.21 | 3.04 | 2.28 | 2.89 | 151.03 | 7.62 | 151.23 | 145.91 | 5.32 | 28.439 | |
| 700.00 | 700.00 | 708.06 | 707.95 | 3.28 | 2.60 | 4.03 | 149.48 | 10.52 | 149.86 | 143.98 | 5.88 | 25.471 | |
| 800.00 | 800.00 | 807.37 | 807.20 | 3.51 | 2.93 | 5.31 | 148.37 | 13.78 | 149.01 | 142.57 | 6.44 | 23.139 | |
| 900.00 | 900.00 | 907.52 | 907.30 | 3.73 | 3.27 | 6.50 | 147.37 | 16.78 | 148.33 | 141.33 | 6.99 | 21.212 | |
| 1,000.00 | 1,000.00 | 1,007.53 | 1,007.27 | 3.94 | 3.61 | 7.64 | 146.24 | 19.62 | 147.55 | 140.01 | 7.54 | 19.569 | |
| 1,100.00 | 1,100.00 | 1,107.25 | 1,106.95 | 4.13 | 3.95 | 8.50 | 145.32 | 21.72 | 146.93 | 138.85 | 8.08 | 18.183 | |
| 1,200.00 | 1,200.00 | 1,206.60 | 1,206.30 | 4.32 | 4.30 | 9.19 | 144.73 | 23.42 | 146.62 | 138.00 | 8.61 | 17.019 | |
| 1,212.95 | 1,212.95 | 1,219.46 | 1,219.15 | 4.35 | 4.34 | 9.27 | 144.70 | 23.61 | 146.61 | 137.93 | 8.68 | 16.885 | CC |
| 1,300.00 | 1,300.00 | 1,306.46 | 1,306.15 | 4.51 | 4.64 | 9.73 | 144.57 | 24.79 | 146.68 | 137.54 | 9.14 | 16.041 | |
| 1,400.00 | 1,400.00 | 1,406.13 | 1,405.80 | 4.68 | 4.99 | 10.29 | 144.43 | 26.21 | 146.79 | 137.12 | 9.67 | 15.182 | |
| 1,500.00 | 1,500.00 | 1,505.97 | 1,505.63 | 4.86 | 5.34 | 10.92 | 144.48 | 27.87 | 147.14 | 136.95 | 10.19 | 14.442 | |
| 1,600.00 | 1,600.00 | 1,606.03 | 1,605.67 | 5.03 | 5.69 | 11.56 | 144.53 | 29.55 | 147.52 | 136.81 | 10.71 | 13.778 | |
| 1,700.00 | 1,700.00 | 1,706.88 | 1,706.50 | 5.19 | 6.04 | 12.24 | 144.27 | 31.29 | 147.62 | 136.40 | 11.23 | 13.151 | |
| 1,800.00 | 1,800.00 | 1,806.75 | 1,806.36 | 5.35 | 6.39 | 12.94 | 143.72 | 33.03 | 147.47 | 135.73 | 11.74 | 12.562 | |
| 1,828.80 | 1,828.80 | 1,835.39 | 1,835.00 | 5.39 | 6.50 | 13.15 | 143.59 | 33.54 | 147.45 | 135.57 | 11.89 | 12.406 | |
| 1,900.00 | 1,900.00 | 1,906.19 | 1,905.78 | 5.51 | 6.75 | 13.58 | 143.43 | 34.64 | 147.55 | 135.31 | 12.25 | 12.048 | |
| 2,000.00 | 2,000.00 | 2,005.62 | 2,005.20 | 5.66 | 7.10 | 14.16 | 143.54 | 36.21 | 148.04 | 135.29 | 12.75 | 11.611 | ES |
| 2,100.00 | 2,099.99 | 2,105.29 | 2,104.86 | 5.79 | 7.45 | -156.71 | 143.91 | 37.94 | 149.64 | 136.41 | 13.23 | 11.311 | |
| 2,200.00 | 2,199.96 | 2,205.15 | 2,204.70 | 5.90 | 7.80 | -156.47 | 144.40 | 39.76 | 152.98 | 139.28 | 13.69 | 11.171 | |
| 2,300.00 | 2,299.86 | 2,305.09 | 2,304.63 | 6.04 | 8.15 | -156.53 | 144.92 | 41.47 | 157.91 | 143.74 | 14.17 | 11.141 | SF |
| 2,400.00 | 2,399.68 | 2,405.02 | 2,404.55 | 6.19 | 8.50 | -156.87 | 145.40 | 43.03 | 164.38 | 149.71 | 14.67 | 11.204 | |
| 2,500.00 | 2,499.37 | 2,503.89 | 2,503.39 | 6.36 | 8.85 | -157.26 | 145.80 | 44.95 | 172.48 | 157.30 | 15.18 | 11.359 | |
| 2,600.00 | 2,598.90 | 2,596.94 | 2,596.39 | 6.56 | 9.18 | -157.77 | 147.59 | 47.14 | 183.80 | 168.11 | 15.68 | 11.721 | |
| 2,700.00 | 2,698.26 | 2,696.22 | 2,695.54 | 6.77 | 9.52 | -158.33 | 151.61 | 50.29 | 198.94 | 182.71 | 16.23 | 12.257 | |
| 2,800.00 | 2,797.40 | 2,794.75 | 2,793.95 | 7.01 | 9.86 | -158.97 | 155.42 | 53.39 | 215.51 | 198.72 | 16.80 | 12.829 | |
| 2,900.00 | 2,896.30 | 2,893.06 | 2,892.15 | 7.28 | 10.20 | -159.74 | 159.37 | 56.15 | 233.82 | 216.43 | 17.39 | 13.445 | |
| 3,000.00 | 2,994.93 | 2,992.22 | 2,991.20 | 7.56 | 10.55 | -160.62 | 163.16 | 58.52 | 253.51 | 235.50 | 18.01 | 14.076 | |
| 3,100.00 | 3,093.26 | 3,088.34 | 3,087.24 | 7.86 | 10.88 | -161.49 | 166.62 | 60.58 | 274.64 | 256.00 | 18.63 | 14.738 | |
| 3,200.00 | 3,191.25 | 3,171.34 | 3,170.03 | 8.19 | 11.17 | -161.90 | 171.10 | 64.16 | 299.60 | 280.42 | 19.18 | 15.623 | |
| 3,278.16 | 3,267.59 | 3,233.70 | 3,231.75 | 8.43 | 11.39 | -161.81 | 178.09 | 69.53 | 324.81 | 305.26 | 19.55 | 16.614 | |
| 3,300.00 | 3,288.88 | 3,255.13 | 3,252.96 | 8.49 | 11.46 | -161.81 | 180.58 | 71.40 | 332.11 | 312.43 | 19.69 | 16.869 | |
| 3,400.00 | 3,386.41 | 3,352.02 | 3,348.91 | 8.86 | 11.80 | -161.88 | 191.39 | 79.41 | 365.06 | 344.69 | 20.38 | 17.914 | |
| 3,500.00 | 3,483.93 | 3,449.03 | 3,445.09 | 9.22 | 12.13 | -162.05 | 201.74 | 86.64 | 397.45 | 376.37 | 21.07 | 18.861 | |
| 3,600.00 | 3,581.45 | 3,547.48 | 3,542.86 | 9.60 | 12.47 | -162.32 | 211.53 | 92.99 | 429.00 | 407.21 | 21.79 | 19.687 | |
| 3,700.00 | 3,678.97 | 3,632.47 | 3,627.22 | 9.98 | 12.77 | -162.54 | 220.23 | 98.40 | 460.88 | 438.48 | 22.40 | 20.578 | |
| 3,800.00 | 3,776.49 | 3,699.60 | 3,693.30 | 10.37 | 13.01 | -162.58 | 230.60 | 104.07 | 497.58 | 474.77 | 22.81 | 21.813 | |
| 3,900.00 | 3,874.02 | 3,792.23 | 3,784.18 | 10.77 | 13.32 | -162.58 | 246.43 | 112.46 | 536.19 | 512.69 | 23.50 | 22.817 | |
| 4,000.00 | 3,971.54 | 3,896.48 | 3,886.75 | 11.18 | 13.69 | -162.72 | 263.17 | 120.50 | 573.68 | 549.36 | 24.32 | 23.590 | |
| 4,100.00 | 4,069.06 | 3,997.15 | 3,986.16 | 11.59 | 14.04 | -162.92 | 277.62 | 127.19 | 609.41 | 584.31 | 25.10 | 24.276 | |
| 4,200.00 | 4,166.58 | 4,094.94 | 4,082.82 | 12.01 | 14.39 | -163.06 | 290.81 | 133.85 | 644.37 | 618.51 | 25.86 | 24.916 | |

CC - Min center to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

PERMIAN RESOURCES

# Phoenix Technology Services

## Anticollision Report

PHOENIX TECHNOLOGY SERVICES

| | | | |
|---|---|---|---|
| **Company:** | Permian Resources | **Local Co-ordinate Reference:** | Well Dawson 34 Fed Com 204H |
| **Project:** | Eddy County, NM (NAD83 - NME) | **TVD Reference:** | RKB @ 3333.80usft (TBD) |
| **Reference Site:** | Dawson 34 Fed Com | **MD Reference:** | RKB @ 3333.80usft (TBD) |
| **Site Error:** | 0.00 | **North Reference:** | Grid |
| **Reference Well:** | Dawson 34 Fed Com 204H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 1.00 | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | OH | **Database:** | USAEDMDB |
| **Reference Design:** | Plan 1 07-26-23 | **Offset TVD Reference:** | Offset Datum |

**Offset Design** Shamrock 34 Federal Com 122H - OH - Surveys — **Offset Site Error:** 0.00 usft

**Survey Program:** 14-MWD+IFR1+SAG+FDIR — **Offset Well Error:** 1.00 usft

| Reference Measured Depth (usft) | Reference Vertical Depth (usft) | Offset Measured Depth (usft) | Offset Vertical Depth (usft) | Semi Major Axis Reference (usft) | Semi Major Axis Offset (usft) | Highside Toolface (°) | Offset Wellbore Center +N/-S (usft) | Offset Wellbore Center +E/-W (usft) | Distance Between Centers (usft) | Distance Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4,300.00 | 4,264.10 | 4,189.29 | 4,176.12 | 12.43 | 14.72 | -163.16 | 303.13 | 140.59 | 678.98 | 652.39 | 26.59 | 25.532 | |
| 4,400.00 | 4,361.63 | 4,292.51 | 4,278.33 | 12.86 | 15.09 | -163.36 | 316.22 | 146.59 | 713.07 | 685.66 | 27.41 | 26.015 | |
| 4,500.00 | 4,459.15 | 4,392.60 | 4,377.67 | 13.29 | 15.44 | -163.70 | 327.82 | 150.33 | 745.87 | 717.67 | 28.20 | 26.447 | |
| 4,600.00 | 4,556.67 | 4,473.18 | 4,457.58 | 13.72 | 15.73 | -163.93 | 337.66 | 153.62 | 779.34 | 750.51 | 28.83 | 27.032 | |
| 4,700.00 | 4,654.19 | 4,516.86 | 4,500.59 | 14.16 | 15.88 | -163.99 | 344.70 | 156.35 | 816.64 | 787.56 | 29.08 | 28.078 | |
| 4,800.00 | 4,751.71 | 4,630.99 | 4,612.65 | 14.60 | 16.29 | -164.06 | 364.66 | 164.69 | 855.41 | 825.38 | 30.04 | 28.476 | |
| 4,900.00 | 4,849.24 | 4,733.49 | 4,713.68 | 15.04 | 16.66 | -164.21 | 380.90 | 170.65 | 892.49 | 861.62 | 30.87 | 28.907 | |
| 5,000.00 | 4,946.76 | 4,832.37 | 4,811.31 | 15.48 | 17.01 | -164.41 | 395.83 | 175.29 | 928.76 | 897.08 | 31.68 | 29.319 | |
| 5,100.00 | 5,044.28 | 4,929.48 | 4,907.28 | 15.93 | 17.35 | -164.62 | 410.09 | 179.39 | 964.60 | 932.14 | 32.47 | 29.711 | |

PERMIAN RESOURCES

# Phoenix Technology Services

## Anticollision Report

PHOENIX TECHNOLOGY SERVICES

| | | | |
|---|---|---|---|
| **Company:** | Permian Resources | **Local Co-ordinate Reference:** | Well Dawson 34 Fed Com 204H |
| **Project:** | Eddy County, NM (NAD83 - NME) | **TVD Reference:** | RKB @ 3333.80usft (TBD) |
| **Reference Site:** | Dawson 34 Fed Com | **MD Reference:** | RKB @ 3333.80usft (TBD) |
| **Site Error:** | 0.00 | **North Reference:** | Grid |
| **Reference Well:** | Dawson 34 Fed Com 204H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 1.00 | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | OH | **Database:** | USAEDMDB |
| **Reference Design:** | Plan 1 07-26-23 | **Offset TVD Reference:** | Offset Datum |

**Offset Design** State A 32 Com 003 - OH - Surveys — **Offset Site Error:** 0.00 usft

**Survey Program:** 1400-INC-ONLY — **Offset Well Error:** 1.00 usft

| Reference Measured Depth (usft) | Reference Vertical Depth (usft) | Offset Measured Depth (usft) | Offset Vertical Depth (usft) | Semi Major Axis Reference (usft) | Semi Major Axis Offset (usft) | Highside Toolface (°) | Offset Wellbore Center +N/-S (usft) | Offset Wellbore Center +E/-W (usft) | Distance Between Centers (usft) | Distance Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 19,300.00 | 8,974.00 | 8,987.87 | 8,986.20 | 240.44 | 239.95 | 90.00 | -1,255.01 | -11,274.12 | 1,121.59 | 817.00 | 304.59 | 3.682 | |
| 19,391.86 | 8,974.00 | 8,987.87 | 8,986.20 | 242.55 | 239.95 | 90.00 | -1,255.01 | -11,274.12 | 1,031.84 | 722.98 | 308.87 | 3.341 | CC, ES, SF |

PERMIAN RESOURCES

# Phoenix Technology Services

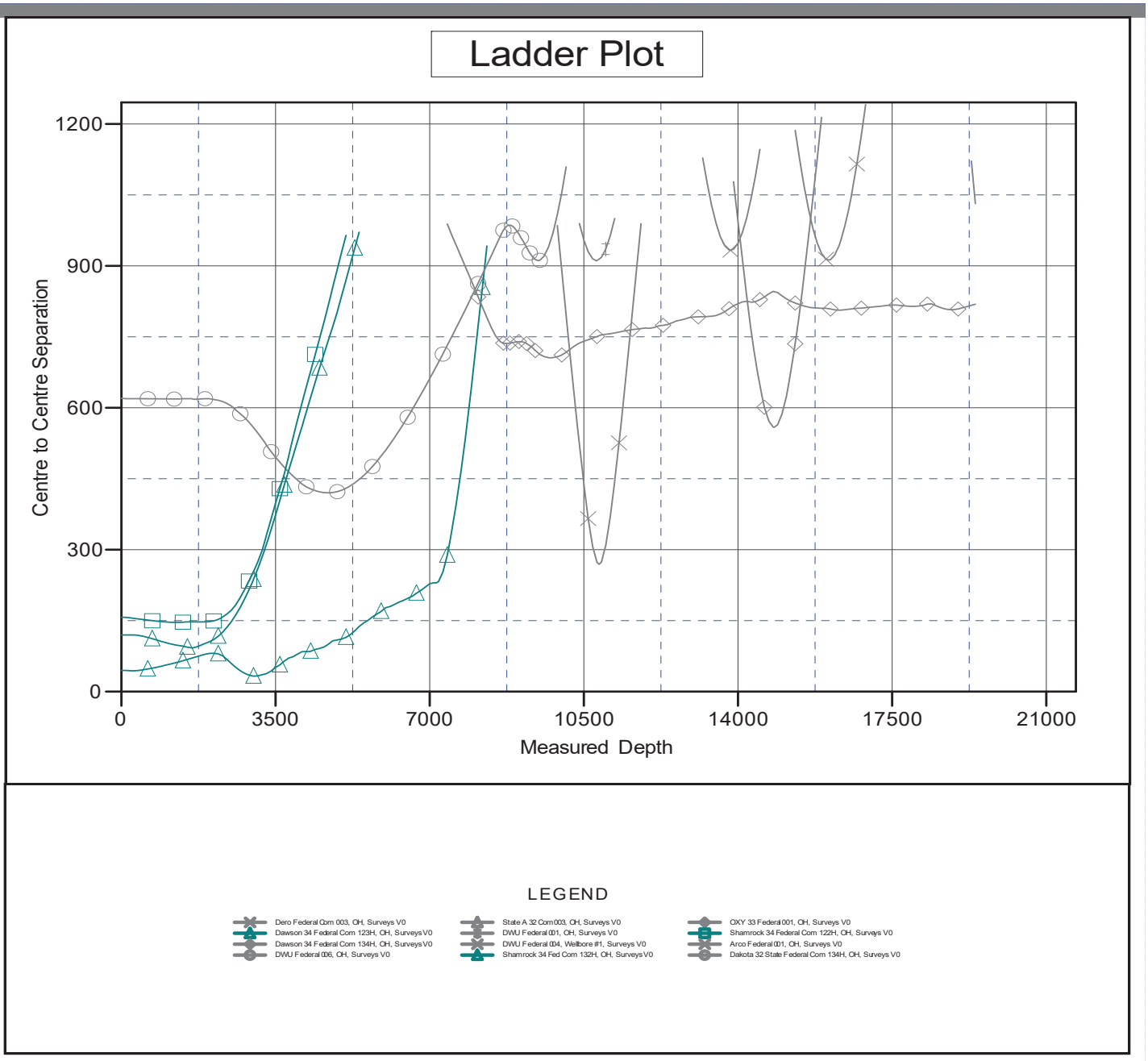
## Anticollision Report

PHOENIX TECHNOLOGY SERVICES

| | | | |
|---|---|---|---|
| **Company:** | Permian Resources | **Local Co-ordinate Reference:** | Well Dawson 34 Fed Com 204H |
| **Project:** | Eddy County, NM (NAD83 - NME) | **TVD Reference:** | RKB @ 3333.80usft (TBD) |
| **Reference Site:** | Dawson 34 Fed Com | **MD Reference:** | RKB @ 3333.80usft (TBD) |
| **Site Error:** | 0.00 | **North Reference:** | Grid |
| **Reference Well:** | Dawson 34 Fed Com 204H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 1.00 | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | OH | **Database:** | USAEDMDB |
| **Reference Design:** | Plan 1 07-26-23 | **Offset TVD Reference:** | Offset Datum |

Reference Depths are relative to RKB @ 3333.80usft (TBD)
Offset Depths are relative to Offset Datum
Central Meridian is 104° 19' 60.000000 W °

Coordinates are relative to: Dawson 34 Fed Com 204H
Coordinate System is US State Plane 1983, New Mexico Eastern Zone
Grid Convergence at Surface is: 0.095°



PERMIAN RESOURCES

# Phoenix Technology Services

## Anticollision Report

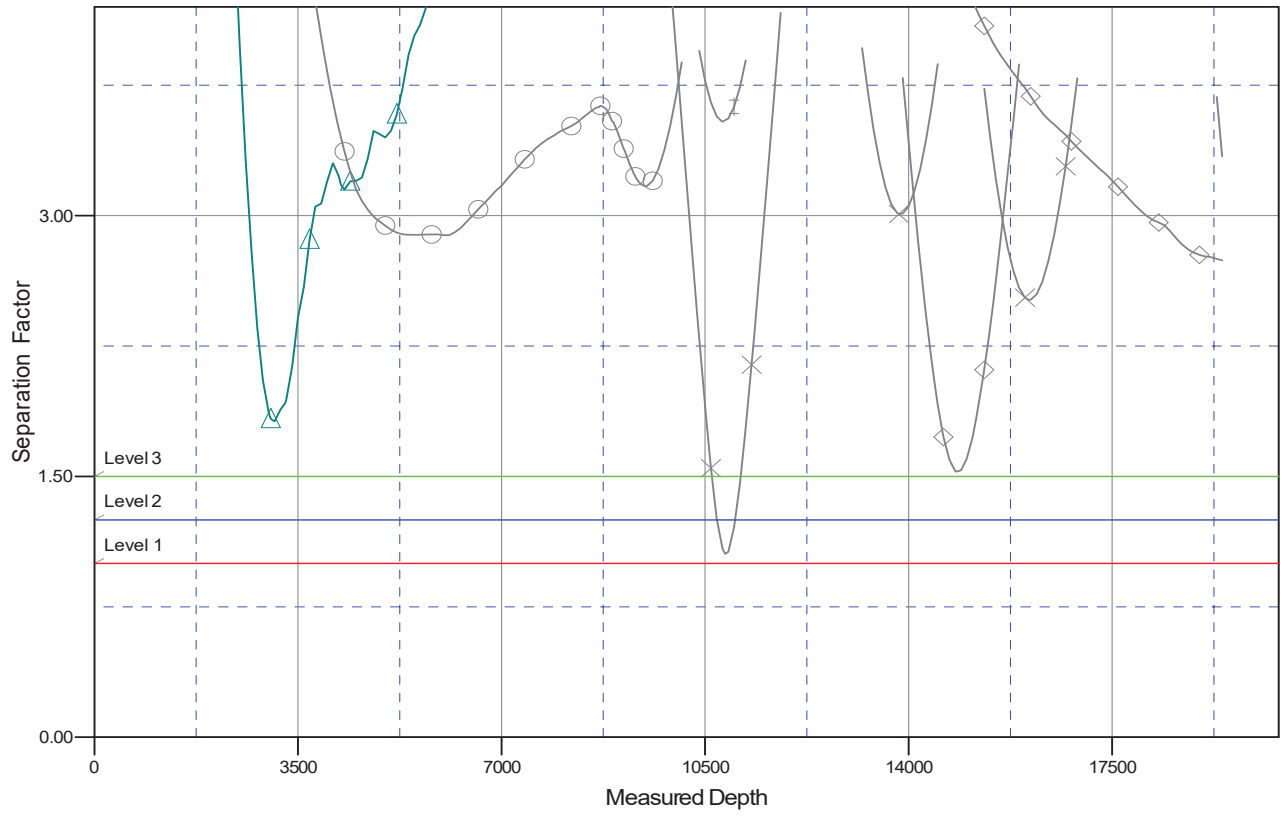
PHOENIX TECHNOLOGY SERVICES

| | | | |
|---|---|---|---|
| **Company:** | Permian Resources | **Local Co-ordinate Reference:** | Well Dawson 34 Fed Com 204H |
| **Project:** | Eddy County, NM (NAD83 - NME) | **TVD Reference:** | RKB @ 3333.80usft (TBD) |
| **Reference Site:** | Dawson 34 Fed Com | **MD Reference:** | RKB @ 3333.80usft (TBD) |
| **Site Error:** | 0.00 | **North Reference:** | Grid |
| **Reference Well:** | Dawson 34 Fed Com 204H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 1.00 | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | OH | **Database:** | USAEDMDB |
| **Reference Design:** | Plan 1 07-26-23 | **Offset TVD Reference:** | Offset Datum |

Reference Depths are relative to RKB @ 3333.80usft (TBD)
Offset Depths are relative to Offset Datum
Central Meridian is 104° 19' 60.000000 W °

Coordinates are relative to: Dawson 34 Fed Com 204H
Coordinate System is US State Plane 1983, New Mexico Eastern Zone
Grid Convergence at Surface is: 0.095°

## Separation Factor Plot




LEGEND

Dero Federal Com 003, OH, Surveys V0
Dawson 34 Federal Com 123H, OH, Surveys V0
Dawson 34 Federal Com 134H, OH, Surveys V0
DWU Federal 006, OH, Surveys V0
State A 32 Com 003, OH, Surveys V0
DWU Federal 001, OH, Surveys V0
DWU Federal 004, Wellbore #1, Surveys V0
Shamrock 34 Fed Com 132H, OH, Surveys V0
OXY 33 Federal 001, OH, Surveys V0
Shamrock 34 Federal Com 122H, OH, Surveys V0
Arco Federal 001, OH, Surveys V0
Dakota 32 State Federal Com 134H, OH, Surveys V0

# Permian Resources - Dawson 34 Fed Com 204H

**1. Geologic Formations**

| Formation | Elevation | TVD | Lithology | Target |
|---|---|---|---|---|
| Rustler | -3049 | 290 | Sandstone | No |
| Top of Salt | -2939 | 400 | Salt | No |
| Tansill | -2509 | 830 | Anhydrite/Shale | No |
| Yates | -2354 | 985 | Anhydrite/Shale | No |
| Seven Rivers | -1899 | 1440 | Limestone | No |
| Queen | -1370 | 1969 | Limestone | No |
| Grayburg | -1310 | 2029 | Limestone | No |
| San Andres | -940 | 2399 | Limestone | No |
| Delaware Mountain Group | -289 | 3050 | Sandstone | No |
| Brushy Canyon | -109 | 3230 | Sandstone | No |
| Bone Spring Lime | 991 | 4330 | Limestone/Shale | No |
| 1st Bone Spring Sand | 3116 | 6455 | Sandstone/Limestone/Shale | No |
| 2nd Bone Spring Sand | 3876 | 7215 | Sandstone/Limestone/Shale | No |
| 3rd Bone Spring Sand | 5106 | 8445 | Sandstone/Limestone/Shale | No |
| Wolfcamp | 5516 | 8855 | Shale | Yes |

**2. Blowout Prevention**

| BOP installed and tested before drilling which hole? | Size? | Min. Required WP | Type | x | Tested to: |
|---|---|---|---|---|---|
| 12.25 | 13-5/8” | 5M | Annular | x | 2500 psi |
| | | | Blind Ram | x | 5000 psi |
| | | | Pipe Ram | x | |
| | | | Double Ram | | |
| | | | Other* | | |
| 8.75 | 13-5/8” | 5M | Annular | x | 2500 psi |
| | | | Blind Ram | x | 5000 psi |
| | | | Pipe Ram | x | |
| | | | Double Ram | | |
| | | | Other* | | |

**Equipment**: BOPE with working pressure ratings in excess of anticipated maximum surface pressure will be utilized for well control from drill out of surface casing to TMD. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested. All BOPE connections shall be flanged, welded or clamped. All choke lines shall be straight unless targeted with running tees or tee blocks are used, and choke lines shall be anchored to prevent whip and reduce vibrations. All valves in the choke line & the choke manifold shall be full opening as to not cause restrictions and to allow for straight fluid paths to minimize potential erosion. All gauges utilized in the well control system shall be of a type designed for drilling fluid service. A top drive inside BOP valve will be utilized at all times. Subs equipped with full opening valves sized to fit the drill pipe and collars will be available on the rig floor in the open position. The key to operate said valve equipped subs will be on the rig floor at all times. The accumulator system will have sufficient capacity to open the HCR and close all three sets of rams plus the annular preventer while retaining at least 300 psi above precharge on the closing manifold (accumulator system shall be capable of doing so without using the closing unit pumps). The fluid reservoir capacity will be double the usable fluid volume of the accumulator system capacity, and the fluid level will be maintained at the manufacturer's recommended level. Prior to connecting the closing unit to the BOP stack, an accumulator precharge pressure test shall be performed to ensure the precharge pressure is within 100 psi of the desired precharge pressure (only nitrogen gas will be used to precharge). Two independent power sources will be made available at all times to power the closing unit pumps so that the pumps can automatically start when the closing valve manifold pressure has decreased to the preset level. Closing unit pumps will be sized to allow opening of HCR and closing of annular preventer on 5" drill pipe achieving at least 200 psi above precharge pressure with the accumulator system isolated from service in less than two minutes. A valve shall be installed in the closing line as close to the annular preventer as possible to act as a locking device; the valve shall be maintained in the open position and shall be closed only when the power source for the accumulator system is inoperative. Remote controls capable of opening and closing all preventers & the HCR shall be readily accessible to the driller; master controls with the same capability will be operable at the accumulator. The wellhead will be a multibowl speed head allowing for hangoff of intermediate casing & isolation of the 133/8 x 95/8 annulus without breaking the connection between the BOP & wellhead to install an additional casing head. A wear bushing will be installed & inspected frequently to guard against internal wear to wellhead. VBRs (variablebore rams) will be run in upper rambody of BOP stack to provide redundancy to annular preventer while RIH w/ production casing;

**Requesting Variance?** YES
**Variance request:** Flex hose and offline cement variances, see attachments in section 8.
**Testing Procedure:** The BOP test shall be performed before drilling out of the surface casing shoe and will occur at a minimum: a. when initially installed b. whenever any seal subject to test pressure is broken c. following related repairs d. at 30 day intervals e. checked daily as to mechanical operating conditions. The ram type preventer(s) will be tested using a test plug to 250 psi (low) and 5,000 psi (high) (casinghead WP) with a test plug upon its installation onto the 13 surface casing. If a test plug is not used, the ram type preventer(s) shall be tested to 70% of the minimum internal yield pressure of the casing. The annular type preventer(s) shall be tested to 3500 psi. Pressure will be maintained for at least 10 minutes or until provisions of the test are met, whichever is longer. A Sundry Notice (Form 3160 5), along with a copy of the BOP test report, shall be submitted to the local BLM office within 5 working days following the test. If the bleed line is connected into the buffer tank (header), all BOP equipment including the buffer tank and associated valves will be rated at the required BOP pressure. The BLM office will be provided with a minimum of four (4) hours notice of BOP testing to allow witnessing. The BOP Configuration, choke manifold layout, and accumulator system, will be in compliance with Onshore Order 2 for a 5,000 psi system. A remote accumulator and a multi-bowl system will be used, please see attachment in section 8 for multi-bowl procedure. Pressures, capacities, and specific placement and use of the manual and/or hydraulic controls, accumulator controls, bleed lines, etc., will be identified at the time of the BLM 'witnessed BOP test. Any remote controls will be capable of both opening and closing all preventers and shall be readily accessible.

Choke Diagram Attachemnt: 5 M Choe Manifold
BOP Diagram Attachment: BOP Schematic

### 3. Casing

| String | Hole Size | Casing Size | Top | Bottom | Top TVD | Bottom TVD | Length | Grade | Weight | Connection | Collapse SF | Burst SF | Joint SF Type | Joint SF | Body SF Type | Body SF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Surface | 17.5 | 13.375 | 0 | 340 | 0 | 340 | 340 | J55 | 54.5 | BTC | 6.73 | 3.92 | Dry | 7.67 | Dry | 7.20 |
| Intermediate | 12.25 | 9.625 | 0 | 3070 | 0 | 3070 | 3070 | J55 | 36 | BTC | 2.55 | 1.55 | Dry | 3.04 | Dry | 2.68 |
| Production | 8.75 | 5.5 | 0 | 9402 | 0 | 8974 | 9402 | P110RY | 17 | GeoConn | 1.60 | 1.67 | Dry | 2.16 | Dry | 2.16 |
| Production | 7.875 | 5.5 | 9402 | 19392 | 8974 | 8974 | 9990 | P110RY | 17 | GeoConn | 1.60 | 1.67 | Dry | 2.16 | Dry | 2.16 |
| | | | | | | | | BLM Min Safety Factor | | | 1.125 | 1 | | 1.6 | | 1.6 |

Non API casing spec sheets and casing design assumptions attached.

### 4. Cement

| String | Lead/Tail | Top MD | Bottom MD | Quanity (sx) | Yield | Density | Cu Ft | Excess % | Cement Type | Additives |
|---|---|---|---|---|---|---|---|---|---|---|
| Surface | Tail | 0 | 340 | 270 | 1.34 | 14.8 | 360 | 50% | Class C | Accelerator |
| Intermediate | Lead | 0 | 2450 | 540 | 2.08 | 12.7 | 1120 | 50% | Class C | Salt, Extender, and LCM |
| Intermediate | Tail | 2450 | 3070 | 230 | 1.34 | 14.8 | 300 | 50% | Class C | Accelerator |
| Production | Lead | 2570 | 8637 | 880 | 2.41 | 11.5 | 2110 | 40% | Class H | POZ, Extender, Fluid Loss, Dispersant, Retarder |
| Production | Tail | 8637 | 19392 | 1400 | 1.73 | 12.5 | 2410 | 25% | Class H | POZ, Extender, Fluid Loss, Dispersant, Retarder |

### 5. Circulating Medium

**Mud System Type**: Closed
**Will an air or gas system be used**: No
**Describe what will be on location to control well or mitigate oter conditions**: Sufficient quantities of mud materials will be on the well site at all times for the purpose of assuring well control and maintaining wellbore integrity. Surface interval will employ fresh water mud. The intermediate hole will utilize a saturated brine fluid to inhibit salt washout. The production hole will employ brine based and oil base fluid to inhibit formation reactivity and of the appropriate density to maintain well control.

**Describe the mud monitoring system utilized:** Centrifuge separation system. Open tank monitoring with EDR will be used for drilling fluids and return volumes. Open tank monitoring will be used for cement and cuttings return volumes. Mud properties will be monitored at least every 24 hours using industry accepted mud check practices.

**Cuttings Volume: 8830 Cu Ft**

**Circulating Medium Table**

| Top Depth | Bottom Depth | Mud Type | Min Weight | Max Weight |
|---|---|---|---|---|
| 0 | 340 | Spud Mud | 8.6 | 9.5 |
| 340 | 3070 | Salt Saturated | 10 | 10 |
| 3070 | 9402 | Water Based Mud | 9 | 10 |
| 9402 | 19392 | OBM | 9 | 10 |

## 6. Test, Logging, Coring

**List of production tests including testing procedures, equipment and safety measures:**
Will utilize MWD/LWD (Gamma Ray logging) from intermediate hole to TD of the well.
**List of open and cased hole logs run in the well:**
DIRECTIONAL SURVEY,GAMMA RAY LOG,
**Coring operation description for the well:**

## 7. Pressure

| | | |
|---|---|---|
| Anticipated Bottom Hole Pressure | 4670 | psi |
| Anticipated Surface Pressure | 2692.2 | psi |
| Anticipated Bottom Hole Temperature | 146 | °F |
| Anticipated Abnormal pressure, temp, or geo hazards | No | |

## 8. Waste Management

| **Waste Type:** | **Drilling** |
|---|---|
| Waste content description: | Fresh water based drilling fluid |
| Amount of waste: | 1500 bbls |
| Waste disposal frequency: | Weekly (after drilling all surfaces) |
| Safe containment description: | Steel tanks with plastic-lined containment berms |
| Waste disposal type: | Haul to commercial facility |
| Disposal location ownership: | Commercial |
| **Waste Type:** | **Grey Water & Human Waste** |
| Waste content description: | Grey Water/Human Waste |
| Amount of waste: | 5000 gallons |
| Waste disposal frequency: | Weekly |
| Safe containment description: | Approved waste storage tanks with containment |
| Waste disposal type: | Haul to commercial facility |
| Disposal location ownership: | Commercial |
| **Waste Type:** | **Garbage** |
| Waste content description: | General trash/garbage |
| Amount of waste: | 5000 lbs |
| Waste disposal frequency: | Weekly |
| Safe containment description: | Enclosed trash trailer |
| Waste disposal type: | Haul to commercial facility |
| Disposal location ownership: | Commercial |
| **Waste Type:** | **Drilling** |
| Waste content description: | Drill Cuttings |
| Amount of waste: | 8830 Cu Ft |
| Waste disposal frequency: | Per well |
| Safe containment description: | Steel tanks |
| Waste disposal type: | Haul to commercial facility |
| Disposal location ownership: | Commercial |
| **Waste Type:** | **Drilling** |
| Waste content description: | Brine water based drilling fluid |
| Amount of waste: | 1500 bbls |
| Waste disposal frequency: | Monthly |
| Safe containment description: | Steel tanks with plastic-lined containment berms |
| Waste disposal type: | Haul to commercial facility |
| Disposal location ownership: | Commercial |

**9. Other Information**

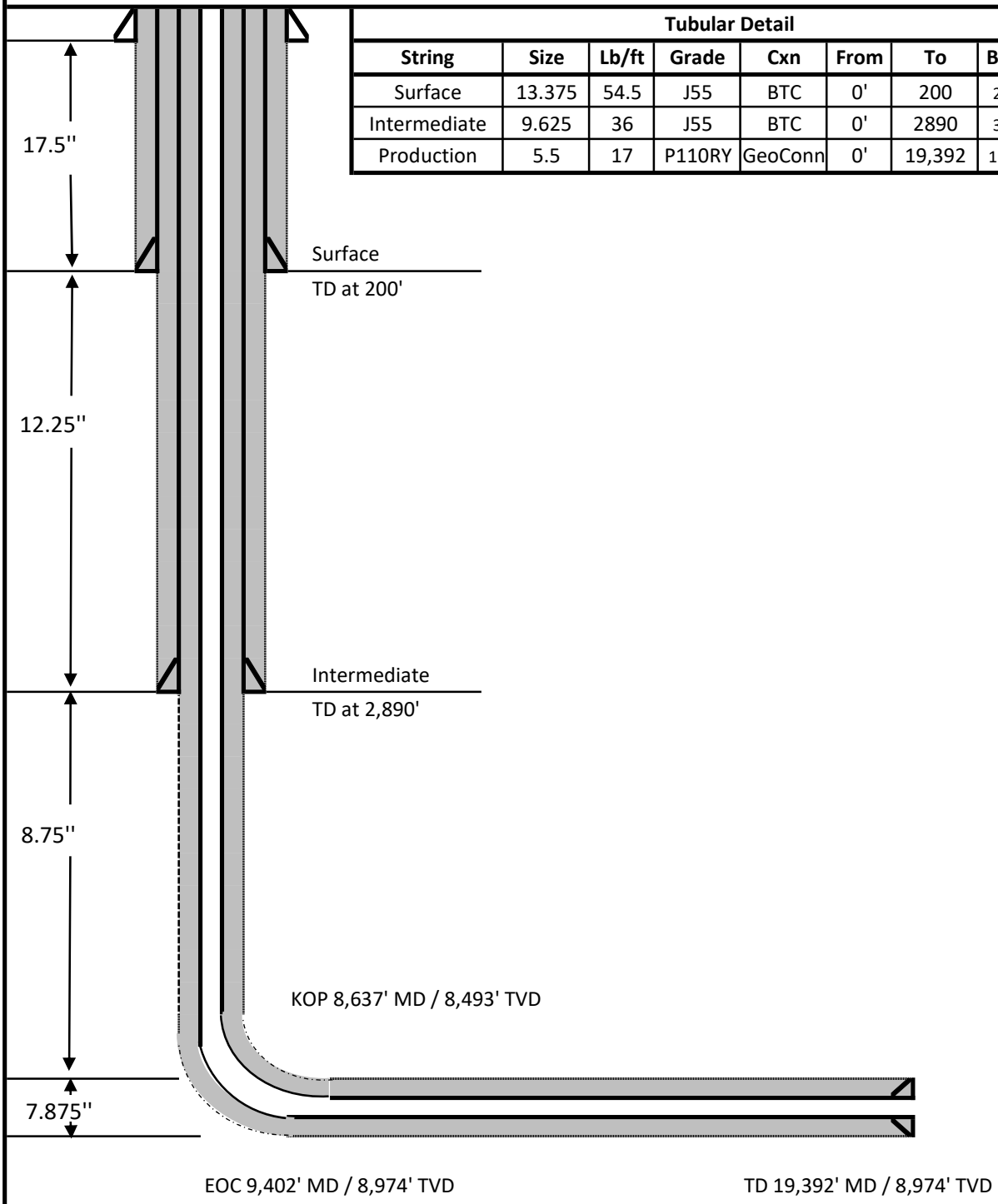
Well Plan and AC Report: attached
Batching Drilling Procedure: attached
WBD: attached
Flex Hose Specs: attached
Offline Cementing Procedure Attached:

## Permian Resources

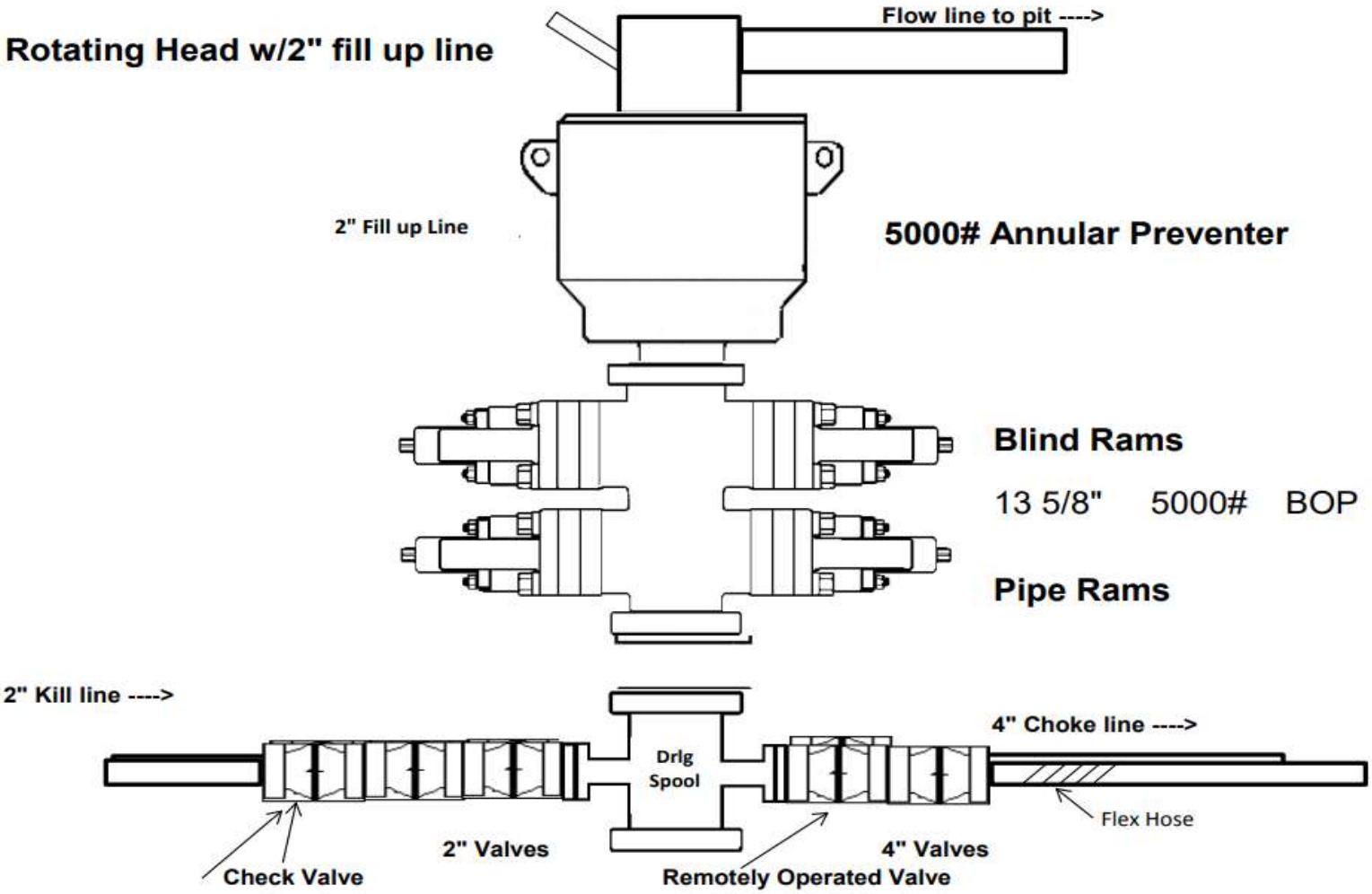
**Well:** Dawson 34 Fed Com 204H
**State** New Mexico **County:** Eddy
**FM Target:** Wolfcamp XY
**Location:** Lot I, Section 34, T19S, R28E, 2489' FSL, 340' FEL
**BHL:** Lot M, Section 33, T19S, R28E, 1068' FSL, 25' FWL
**KB Elev:** 3339 **KB:** 30 **GL Elev:** 3309

**Tubular Detail**

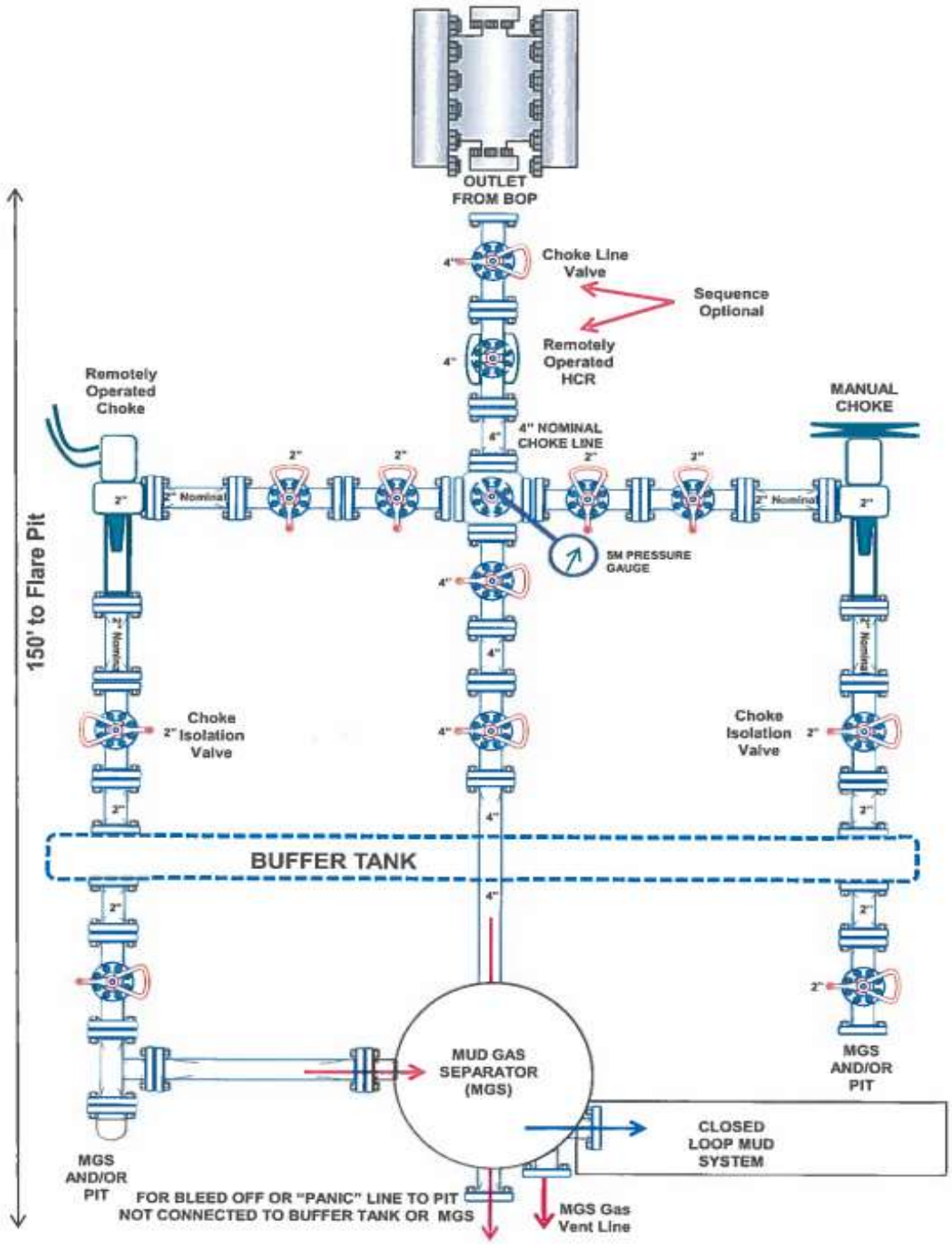
| String | Size | Lb/ft | Grade | Cxn | From | To | Burst | Cllps |
|---|---|---|---|---|---|---|---|---|
| Surface | 13.375 | 54.5 | J55 | BTC | 0' | 200 | 2740 | 1,130 |
| Intermediate | 9.625 | 36 | J55 | BTC | 0' | 2890 | 3520 | 2,020 |
| Production | 5.5 | 17 | P110RY | GeoConn | 0' | 19,392 | 11550 | 7,480 |



# 5,000 psi BOP Schematic



# 5M Choke Manifold Equipment (WITH MGS + CLOSED LOOP)



Continental
ContiTech

| CONTITECH RUBBER Industrial Kft. | No:QC-DB- 210/ 2014 |
|---|---|
| | Page: 9 / 113 |

| QUALITY CONTROL INSPECTION AND TEST CERTIFICATE | | | | | CERT. N°: | 504 | |
|---|---|---|---|---|---|---|---|
| PURCHASER: | ContiTech Oil & Marine Corp. | | | | P.O. N°: | 4500409659 | |
| CONTITECH RUBBER order N°: | 538236 | | HOSE TYPE: | 3" ID | Choke and Kill Hose | | |
| HOSE SERIAL N°: | 67255 | | NOMINAL / ACTUAL LENGTH: | | 10,67 m / 10,77 m | | |
| W.P. 68,9 MPa | 10000 psi | | T.P. 103,4 MPa | 15000 psi | Duration: | 60 | min. |

Pressure test with water at
ambient tempecature

See attachment. ( 1 page )

↑ 10 mm = 10 Min.
→ 10 mm = 20 MPa

| COUPLINGS Type | Serial N° | | Quality | Heat N° |
|---|---|---|---|---|
| 3" coupling with | 9251 | 9254 | AISI 4130 | A0579N |
| 4 1/16" 10K API b.w. Flange end | | | AISI 4130 | 035608 |

**Not Designed For Well Testing**

**API Spec 16 C**

**Temperature rate:"B"**

All metal parts are flawless

WE CERTIFY THAT THE ABOVE HOSE HAS BEEN MANUFACTURED IN ACCORDANCE WITH THE TERMS OF THE ORDER INSPECTED AND PRESSURE TESTED AS ABOVE WITH SATISFACTORY RESULT.

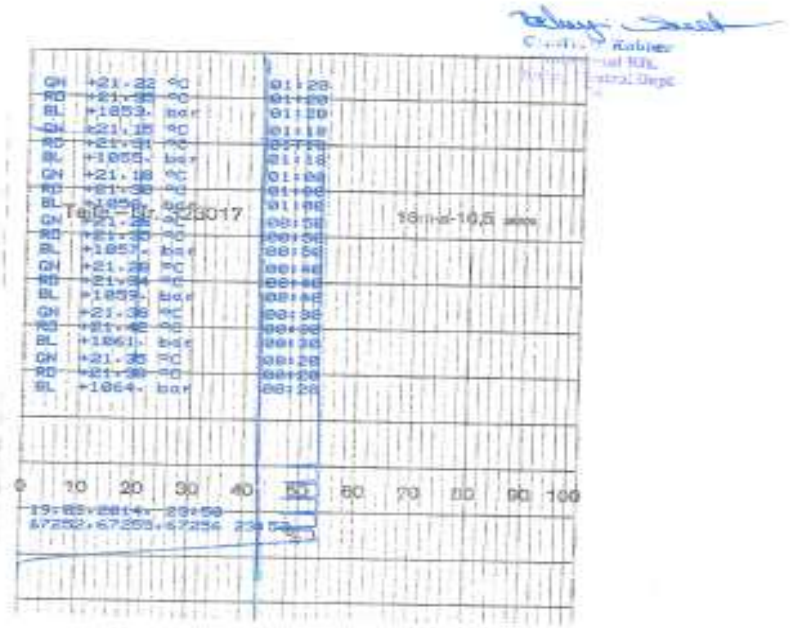
STATEMENT OF CONFORMITY: We hereby certify that the above items/equipment supplied by us are in conformity with the terms, conditions and specifications of the above Purchaser Order and that these items/equipment were fabricated inspected and tested in accordance with the referenced standards, codes and specifications and meet the relevant acceptance criteria and design requirements.

COUNTRY OF ORIGIN HUNGARY/EU

| Date: | Inspector | Quality Control |
|---|---|---|
| 20. March 2014. | | |

*ATTACHMENT OF QUALITY CONTROL INSPECTION AND TEST CERTIFICATE* No: 501, 504, 505

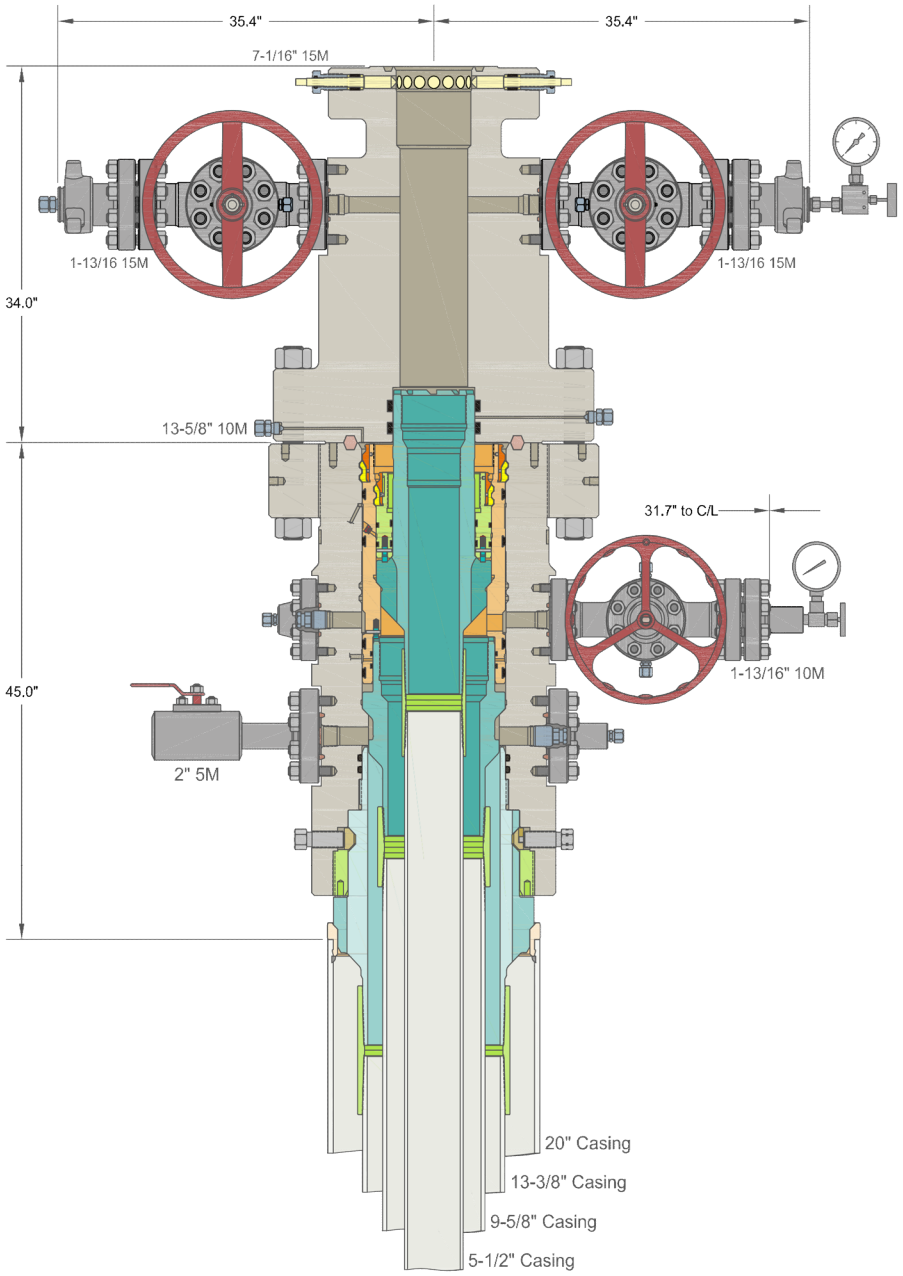
*Page: 1 / 1*



**Hose Data Sheet**

| | |
|---|---|
| CRI Order No. | 538236 |
| Customer | ContiTech Oil & Marine Corp. |
| Customer Order No | 4500409659 |
| Item No. | 1 |
| Hose Type | Flexible Hose |
| **Standard** | **API SPEC 16 C** |
| Inside dia in inches | 3 |
| Length | 35 ft |
| Type of coupling one end | FLANGE 4.1/16" 10K API SPEC 6A TYPE 6BX FLANGE C/W BX155 R.GR.SOUR |
| Type of coupling other end | FLANGE 4.1/16" 10K API SPEC 6A TYPE 6BX FLANGE C/W BX155 R.GR.SOUR |
| H2S service NACE MR0175 | Yes |
| Working Pressure | 10 000 psi |
| Design Pressure | 10 000 psi |
| Test Pressure | 15 000 psi |
| Safety Factor | 2,25 |
| Marking | USUAL PHOENIX |
| Cover | NOT FIRE RESISTANT |
| Outside protection | St.steel outer wrap |
| Internal stripwound tube | No |
| Lining | OIL + GAS RESISTANT SOUR |
| Safety clamp | No |
| Lifting collar | No |
| Element C | No |
| Safety chain | No |
| Safety wire rope | No |
| Max.design temperature [°C] | 100 |
| Min.design temperature [°C] | -20 |
| Min. Bend Radius operating [m] | 0,90 |
| Min. Bend Radius storage [m] | 0,90 |
| Electrical continuity | The Hose is electrically continuous |
| Type of packing | WOODEN CRATE ISPM-15 |

Printed: TIRETECH/ICsontosG - 2014.03.10 15:22:17






ALL DIMENSIONS APPROXIMATE

| | | | |
|---|---|---|---|
| CACTUS WELLHEAD LLC | CENTENNIAL RESOURCE DEVELOPMENT<br>LEE CO, NM | | |
| 20" x 13-3/8" x 9-5/8" x 5-1/2" 10M MBU-3T-CFL-R-DBLO System<br>With 13-5/8" 10M x 7-1/16" 15M CTH-DBLHPS Tubing Head,<br>20" Landing Ring & Pin Down Mandrel Casing Hangers | DRAWN | DLE | 10JUN20 |
| | APPRV | | |
| | DRAWING NO. | HBE0000338 | |

## Permian Resources Casing Design Criteria

A sundry will be requested if any lesser grade or different size casing is substituted. All casing will be centralized as specified in On Shore Order II. Casing will be tested as specified in On Shore Order II.

**Casing Design Assumptions:**

Surface

1) Burst Design Loads
   a) Displacement to Gas
      (1) Internal: Assumes a full column of gas in the casing with a gas gradient of 0.7 psi/ft in the absence of better information. It is limited to the controlling pressure based on the maximum expected pore pressure within the next drilling interval.
      (2) External: Mud weight to TOC and cement mix water gradient (8.4 ppg) below TOC.
   b) Casing Pressure Test
      (1) Internal: Displacement fluid plus surface pressure required to comply with regulatory casing test pressure requirements of Onshore Oil and Gas Order No. 2 and NM NMAC 19.15.16 of NMOCD regulations.
      (2) External: Mud weight to TOC and cement mix water gradient (8.4 ppg) below TOC.
2) Collapse Loads
   a) Cementing
      (1) Internal: Displacement fluid density.
      (2) External: Mud weight from TOC to surface and cement slurry weight from TOC to shoe.
   b) Lost Returns with Mud Drop
      (1) Internal: Lost circulation at the TD of the next hole section and the fluid level falls to a depth where the hydrostatic pressure of the mud column equals pore pressure at the depth of the lost circulation zone.
      (2) External: Mud weight to TOC and cement slurry(s) density below TOC.
3) Tension Loads
   a) Overpull Force
      1. Axial: Buoyant weight of the string plus planned 100,000 lbs applied in stuck pipe situation.
   b) Green Cement Casing Test
      1. Axial: Buoyant weight of the string plus cement plug bump pressure load.

Intermediate I

1) Burst Design Loads
   a) Displacement to Gas
      (1) Internal: Assumes a full column of gas in the casing with a gas gradient of 0.7 psi/ft in the absence of better information. It is limited to the controlling pressure based on the maximum expected pore pressure within the next drilling interval.
      (2) External: Mud weight to TOC and cement mix water gradient (8.4 ppg) below TOC.
   b) Casing Pressure Test
      (1) Internal: Displacement fluid plus surface pressure required to comply with regulatory casing test pressure requirements of Onshore Oil and Gas Order No. 2 and NM NMAC 19.15.16 of NMOCD regulations.

(2) External: Mud weight to TOC and cement mix water gradient (8.4 ppg) below TOC.

2) Collapse Loads
   a) Cementing
      (1) Internal: Displacement fluid density.
      (2) External: Mud weight from TOC to surface and cement slurry weight from TOC to shoe.
   b) Lost Returns with Mud Drop
      (1) Internal: Lost circulation at the TD of the next hole section and the fluid level falls to a depth where the hydrostatic pressure of the mud column equals pore pressure at the depth of the lost circulation zone.
      (2) External: Mud weight to TOC and cement slurry(s) density below TOC.
3) Tension Loads
   a) Overpull Force
      1. Axial: Buoyant weight of the string plus planned 100,000 lbs applied in stuck pipe situation.
   b) Green Cement Casing Test
      1. Axial: Buoyant weight of the string plus cement plug bump pressure load.

<u>Intermediate or Intermediate II</u>

1) Burst Design Loads
   a) Gas Kick Profile
      (1) Internal: Load profile based on influx encountered in lateral portion of wellbore with a maximum influx volume of 150 bbl and a kick intensity of 1.5 ppg using maximum anticipated MW of 9.9 ppg.
      (2) External: Mud weight to TOC and cement mix water gradient (8.4 ppg) below TOC.
   b) Casing Pressure Test
      (1) Internal: Displacement fluid plus surface pressure required to comply with regulatory casing test pressure requirements of Onshore Oil and Gas Order No. 2 and NM NMAC 19.15.16 of NMOCD regulations.
      (2) External: Mud weight to TOC and cement mix water gradient (8.4 ppg) below TOC.
2) Collapse Loads
   a) Cementing
      (1) Internal: Displacement fluid density.
      (2) External: Mud weight from TOC to surface and cement slurry weight from TOC to shoe.
   b) Lost Returns with Mud Drop
      (1) Internal: Lost circulation at the deepest TVD of the next hole section and the fluid level falls to a depth where the hydrostatic pressure of the mud column equals pore pressure at the depth of the lost circulation zone.
      (2) External: Mud weight to TOC and cement slurry(s) density below TOC.
3) Tension Loads
   a) Overpull Force
      1. Axial: Buoyant weight of the string plus planned 100,000 lbs applied in stuck pipe situation.
   b) Green Cement Casing Test
      1. Axial: Buoyant weight of the string plus cement plug bump pressure load.

Production

1) Burst Design Loads
   a) Injection Down Casing
      (1) Internal: Surface pressure plus injection fluid gradient.
      (2) External: Mud base-fluid density to top of cement and cement mix water gradient (8.4 ppg) below TOC.
   b) Casing Pressure Test (Drilling)
      (1) Internal: Displacement fluid plus surface pressure required to comply with regulatory casing test pressure requirements of Onshore Oil and Gas Order No. 2 and NM NMAC 19.15.16 of NMOCD regulations.
      (2) External: Mud weight to TOC and cement mix water gradient (8.4 ppg) below TOC.
   c) Casing Pressure Test (Production)
      (1) Internal: The design pressure test should be the greater of the planned test pressure prior to simulation down the casing, the regulatory test pressure, and the expected gas lift system pressure. The design test fluid should be the fluid associated with the pressure test having the greatest pressure.
      (2) External: Mud base-fluid density to top of cement and cement mix water gradient (8.4 ppg) below TOC.
   d) Tubing Leak
      (1) Internal: SITP plus a packer fluid gradient to the top of packer.
      (2) External: Mud base-fluid density to top of cement and cement mix water gradient (8.4 ppg) below TOC.
2) Collapse Loads
   a) Cementing
      (1) Internal: Displacement fluid density.
      (2) External: Mud weight to TOC and cement slurry(s) density below TOC.
   b) Full Evacuation
      (1) Internal: Full void pipe.
      (2) External: Mud weight to TOC and cement slurry(s) density below TOC.
3) Tension Loads
   a) Overpull Force
      1. Axial: Buoyant weight of the string plus planned 100,000 lbs applied in stuck pipe situation.
   b) Green Cement Casing Test
      1. Axial: Buoyant weight of the string plus cement plug bump pressure load.

# Permian Resources
# Multi-Well Pad Batch Drilling Procedure

Surface Casing - PR intends to Batch set all 13-3/8" casing to a depth approved in the APD. 17-1/2" Surface Holes will be batch drilled by a rig. Appropriate notifications will be made prior to spudding the well, running and cementing casing and prior to skidding to the rig to the next well on pad.

1. Drill 17-1/2" Surface hole to Approved Depth with Rig and perform wellbore cleanup cycles. Trip out and rack back drilling BHA.
2. Run and land 13-3/8" 54.5# J55 BTC casing see Illustration 1-1 Below to depth approved in APD.
3. Set packoff and test to 5k psi
4. Offline Cement
5. Install wellhead with pressure gauge and nightcap. Nightcap is shown on final wellhead Stack up Illustration #2-2.
6. Skid Rig to adjacent well to drill Surface hole.
7. Surface casing test will be performed by the rig in order to allow ample time for Cement to develop 500psi compressive strength. Casing test to 0.22 psi/ft or 1500 psi whichever is

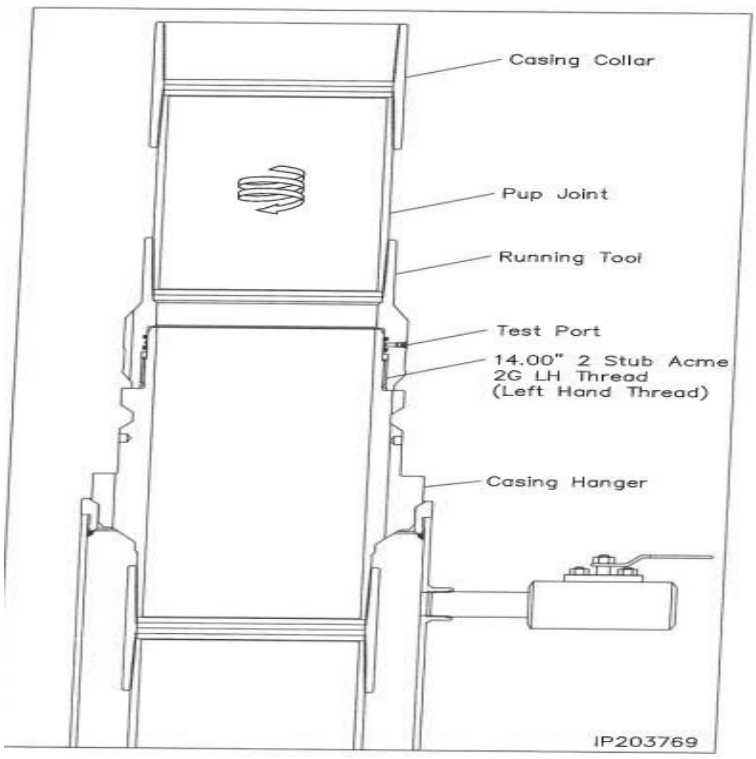



Illustration 1-1

Intermediate Casing – PR intends to Batch set all intermediate casing strings to a depth approved in the APD, typically set into Lamar. 12-1/4" Intermediate Holes will be batch drilled by the rig. Appropriate notifications will be made prior Testing BOPE, and prior to running/cementing all casing strings.

1. Rig will remove the nightcap and install and test BOPE.
2. Test Surface casing per COA WOC timing (.22 psi/ft or 1500 psi whichever is greater) - not to exceed 70% casing burst. Cement must have achieved 500psi compressive strength prior to test.
3. Install wear bushing then drill out 13-3/8" shoe-track plus 20' and conduct FIT to minimum of the MW equivalent anticipated to control the formation pressure to the next casing point.
4. Drill Intermediate hole to approved casing point. Trip out of hole with BHA to run Casing.
5. Remove wear bushing then run and land Intermediate Casing with mandrel hanger in wellhead.
6. Cement casing to surface with floats holding.
7. Washout stack then run wash tool in wellhead and wash hanger and pack-off setting area.
8. Install pack-off and test void to 5,000 psi for 15 minutes. Nightcap shown on final wellhead stack up illustration 2-2 on page 3.
9. Test casing per COA WOC timing (.22 psi/ft or 1500 psi whichever is greater) - not to exceed 70% casing burst. Cement must have achieved 500psi compressive strength prior to test.
10. Install nightcap – skid rig to adjacent well to drill Intermediate hole.

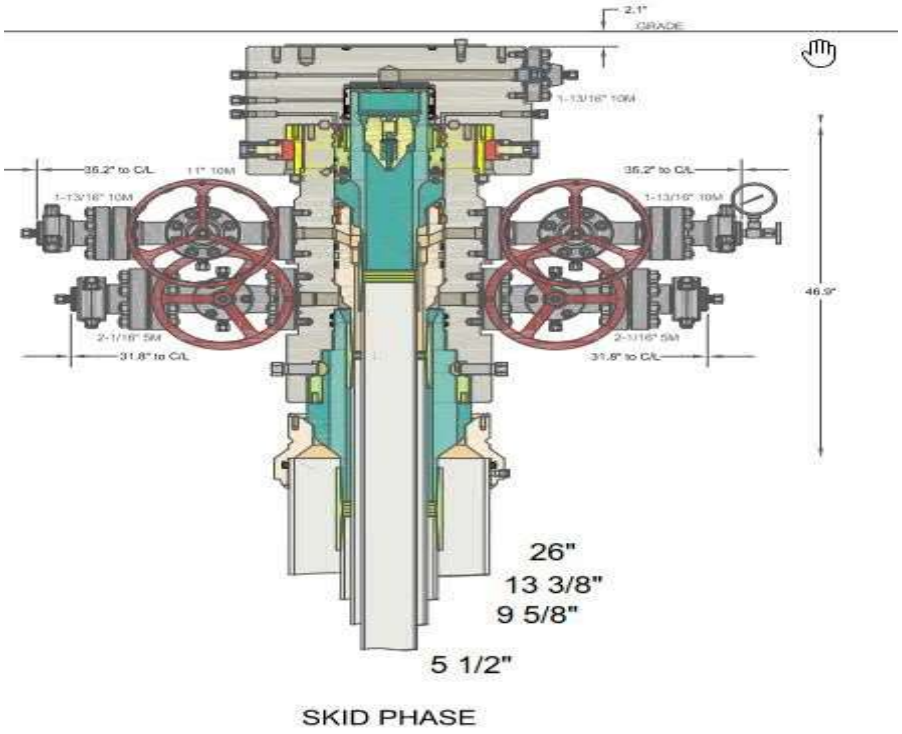



Illustration 2-2

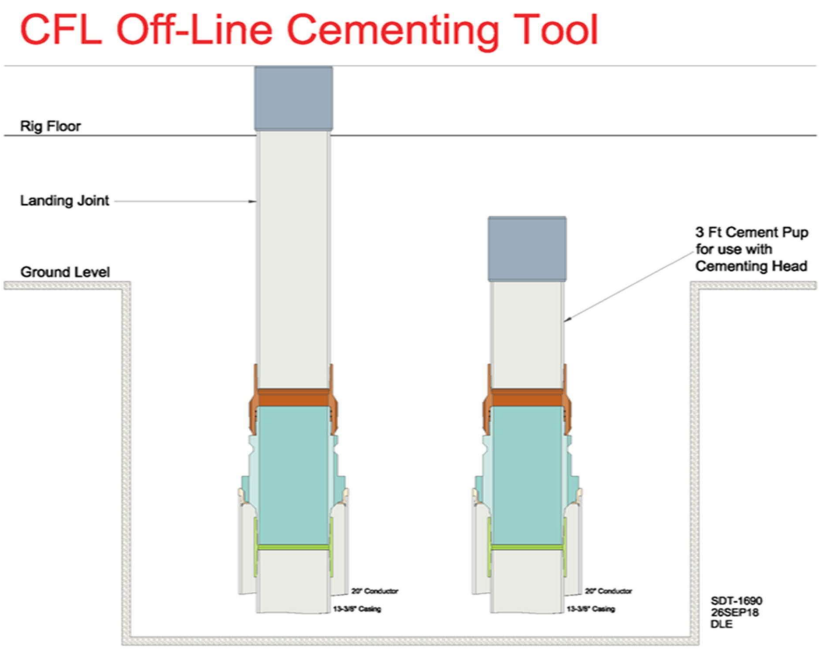
Production Casing – PR intends to Batch set all Production casings with Rig. Appropriate notifications will be made prior Testing BOPE, and prior to running/cementing all casing strings.

1. Big Rig will remove the nightcap and install and test BOPE.
2. Install wear bushing then drill Intermediate shoe-track plus 20' and conduct FIT to minimum MW equivalent to control the formation pressure to TD of well.
3. Drill Vertical hole to KOP – Trip out for Curve BHA.
4. Drill Curve, landing in production interval – Trip for Lateral BHA.
5. Drill Lateral / Production hole to Permitted BHL, perform cleanup cycles and trip out to run 51/2" Production Casing.
6. Remove wear bushing then run 5-1/2" production casing to TD landing casing mandrel in wellhead.
7. Cement 5-1/2" Production string with floats holding.
8. Run in with wash tool and wash wellhead area – install pack-off and test void to 5,000psi for 15 minutes.
9. Install BPV in 5-1/2" mandrel hanger – Nipple down BOPE and install nightcap.
10. Test nightcap void to 5,000psi for 30 minutes per illustration 2-2
11. Skid rig to adjacent well on pad to drill production hole.

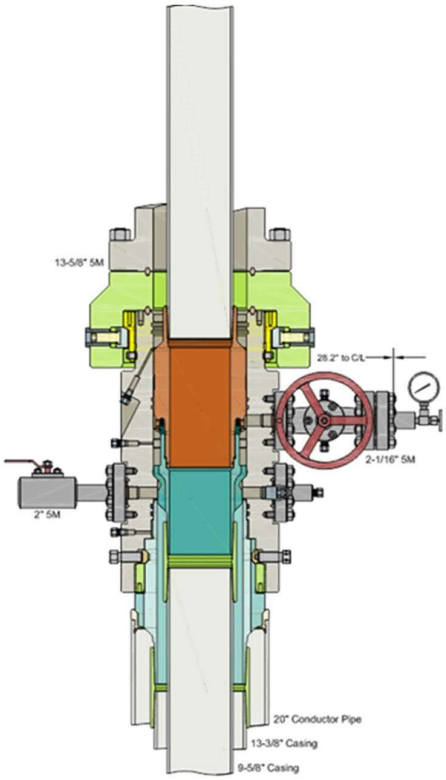
**Permian Resources Offline Cementing Procedure**
**13-3/8" & 9-5/8" Casing**

1. Drill hole to Total Depth with Rig and perform wellbore cleanup cycles.
2. Run and casing to Depth.
3. Land casing with mandrel.
4. Circulate 1.5 csg capacity.
5. Flow test – Confirm well is static and floats are holding.
6. Set Annular packoff and pressure test. Test to 5k.
7. Nipple down BOP and install cap flange.
8. Skid rig to next well on pad
9. Remove cap flange (confirm well is static before removal)
    a) If well is not static use the casing outlet valves to kill well
    b) Drillers method will be used in well control event
    c) High pressure return line will be rigged up to lower casing valve and run to choke manifold to control annular pressure
    d) Kill mud will be circulated once influx is circulated out of hole
    e) Confirm well is static and remove cap flange to start offline cement operations
10. Install offline cement tool.
11. Rig up cementers.
12. Circulate bottoms up with cement truck
13. Commence planned cement job, take returns through the annulus wellhead valve
14. After plug is bumped confirm floats hold and well is static
15. Rig down cementers and equipment
16. Install night cap with pressure gauge to monitor.

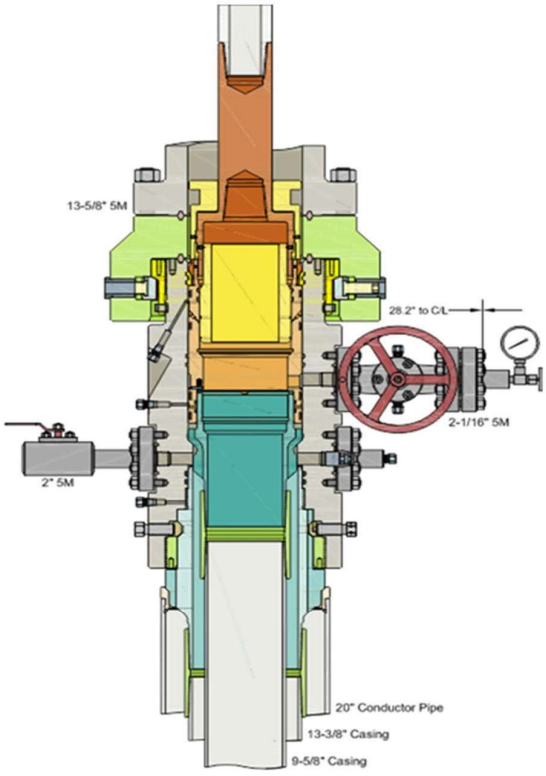
13 3/8" Surface



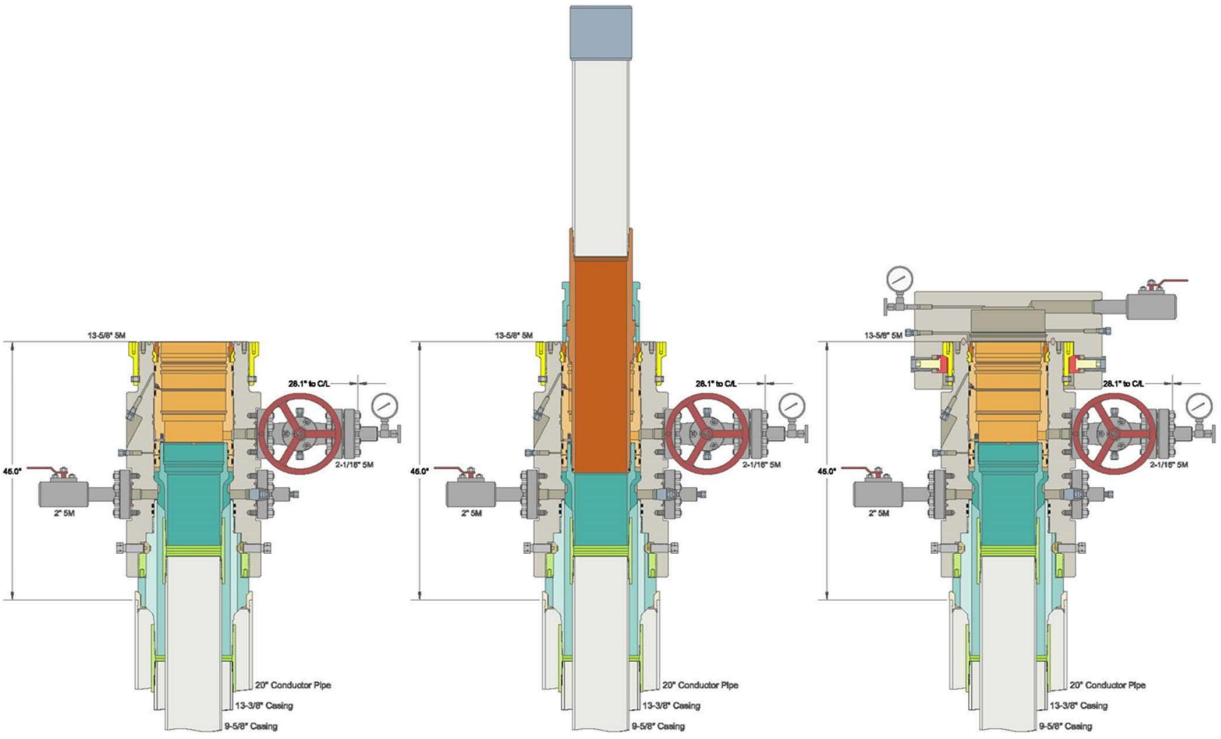
9 5/8" Intermediate




Run 9-5/8" Casing
Land Casing on 9-5/8" Mandrel Hanger
Cement 9-5/8" Casing
Retrieve Running Tool



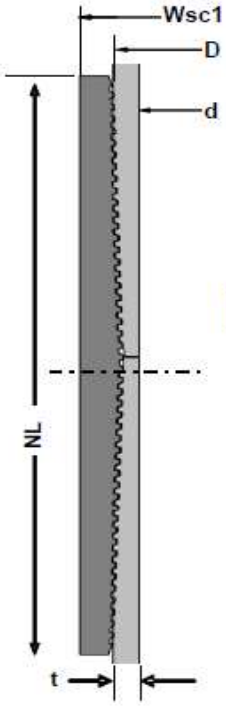

Run 13-5/8" Packoff
Test Upper and Lower Seals
Engage Lockring
Retrieve Running Tool



| Metal One Corp. | GEOCONN-SC<br>Pipe: SeAH P110RY 95%PBW (SMYS110ksi) *1<br>Coupling: P110RY (SMYS110ksi)<br>Connection Data Sheet | Page | MAI GC 5.5 17 SeAH P110RY 95%RBW+SC-Cplg6.050 P110RY |
|---|---|---|---|
| Metal One | | Date | 3-Feb-21 |
| | | Rev. | 0 |

## Geometry

GEOCONN-SC




### Pipe Body

| | | Imperial | | S.I. | |
|---|---|---|---|---|---|
| Grade *1 | P110RY | - | P110RY | - |
| SMYS | 110 | ksi | 110 | ksi |
| Pipe OD ( D ) | 5.500 | in | 139.70 | mm |
| Weight | 17.00 | lb/ft | 25.33 | kg/m |
| Wall Thickness ( t ) | 0.304 | in | 7.72 | mm |
| Pipe ID ( d ) | 4.892 | in | 124.26 | mm |
| Drift Dia. | 4.767 | in | 121.08 | mm |

### Connection

| | | | | |
|---|---|---|---|---|
| Coupling SMYS | 110 | ksi | 110 | ksi |
| SC-Coupling OD ( Wsc1 ) | 6.050 | in | 153.67 | mm |
| Coupling Length ( NL ) | 8.350 | in | 212.09 | mm |
| Make up Loss | 4.125 | in | 104.78 | mm |
| Pipe Critical Area | 4.96 | $in^2$ | 3,202 | $mm^2$ |
| Box Critical Area | 6.10 | $in^2$ | 3,937 | $mm^2$ |
| Thread Taper | 1 / 16 ( 3/4" per ft ) | | | |
| Number of Threads | 5 TPI | | | |

## Performance

### Performance Properties for Pipe Body

| | | Imperial | | S.I. | |
|---|---|---|---|---|---|
| S.M.Y.S. *1 | 546 | kips | 2,428 | kN |
| M.I.Y.P. *1 | 11,550 | psi | 79.66 | MPa |
| Collapse Strength *1 | 7,480 | psi | 51.59 | MPa |

Note S.M.Y.S.= Specified Minimum YIELD Strength of Pipe body
M.I.Y.P. = Minimum Internal Yield Pressure of Pipe body

*1: SeAH P110RY 95%RBW: SMYS110ksi, MIYP11,550psi

### Performance Properties for Connection

| | |
|---|---|
| Min. Connection Joint Strength | 100% of S.M.Y.S. |
| Min. Compression Yield | 100% of S.M.Y.S. |
| Internal Pressure | 100% of M.I.Y.P. |
| External Pressure | 100% of Collapse Strength |
| Max. DLS ( deg. /100ft) | >90 |

### Recommended Torque

| | | | | |
|---|---|---|---|---|
| Min. | 10,800 | ft-lb | 14,600 | N-m |
| Opti. | 12,000 | ft-lb | 16,200 | N-m |
| Max. | 13,200 | ft-lb | 17,800 | N-m |
| Operational Max. | 15,600 | ft-lb | 21,100 | N-m |

Note : Operational Max. torque can be applied for high torque application

**District I**
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
**District II**
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
**District III**
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
**District IV**
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 293470

## CONDITIONS

| | |
|---|---|
| Operator:<br>Permian Resources Operating, LLC<br>1001 17th Street, Suite 1800<br>Denver, CO 80202 | OGRID:<br>372165 |
| | Action Number:<br>293470 |
| | Action Type:<br>[C-103] NOI Change of Plans (C-103A) |

**CONDITIONS**

| Created By | Condition | Condition Date |
|---|---|---|
| ward.rikala | All original COA's still apply. Additionally, if cement is not circulated during the cementing of any string, then a CBL is required. | 1/8/2024 |