AFMSS

U.S. Department of the Interior
Bureau of Land Management

Application for Permit to Drill

## APD Package Report

Date Printed: 02/18/2026 06:36 AM

| | | | |
|---|---|---|---|
| APD ID: | 10400109079 | Well Status: | AAPD |
| APD Received Date: | 12/05/2025 08:45 AM | Well Name: | DONNIE BRASCO FED COM |
| Operator: | PERMIAN RESOURCES OPERATIN( | Well Number: | 173H |

APD Package Report Contents

- Form 3160-3

- Operator Certification Report

- Application Report
- Application Attachments
  -- Well Plat: 1 file(s)

- Drilling Plan Report
- Drilling Plan Attachments
  -- Blowout Prevention Choke Diagram Attachment: 1 file(s)
  -- Blowout Prevention BOP Diagram Attachment: 1 file(s)
  -- Casing Spec Documents: 1 file(s)
  -- Casing Design Assumptions and Worksheet(s): 3 file(s)
  -- Hydrogen sulfide drilling operations plan: 1 file(s)
  -- Proposed horizontal/directional/multi-lateral plan submission: 2 file(s)
  -- Other Facets: 1 file(s)
  -- Other Variances: 5 file(s)

- SUPO Report
- SUPO Attachments
  -- Existing Road Map: 1 file(s)
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  -- Attach Well map: 1 file(s)
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  -- Well Site Layout Diagram: 6 file(s)
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- PWD Report
- PWD Attachments
  -- None

- Bond Report
- Bond Attachments
  -- None

Form 3160-3
(October 2024)

FORM APPROVED
OMB No. 1004-0220
Expires: October 31, 2027

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

# APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.: NMNM040547

6. If Indian, Allotee or Tribe Name:

1a. Type of work: ☑ DRILL ☐ REENTER

1b. Type of Well: ☐ Oil Well ☑ Gas Well ☐ Other

1c. Type of Completion: ☐ Hydraulic Fracturing ☑ Single Zone ☐ Multiple Zone

7. If Unit or CA Agreement, Name and No.:

8. Lease Name and Well No.: DONNIE BRASCO FED COM 173H

2. Name of Operator: PERMIAN RESOURCES OPERATING LLC

9. API Well No.: 30-015-58171

3a. Address: 300 N MARIENFELD ST SUITE 1000, MIDLAND, TX 797(

3b. Phone No. *(include area code)*: (432) 695-4222

10. Field and Pool, or Exploratory: WC-015 G-04 S232628M/BONE SPRING

4. Location of Well *(Report location clearly and in accordance with any State requirements.*)*

At surface: NWSW / 1562 FSL / 1007 FWL / LAT 32.330744 / LONG -104.286366

At proposed prod. zone: NESW / 1980 FSL / 2567 FWL / LAT 32.33197 / LONG -104.246646

11. Sec., T. R. M. or Blk. and Survey or Area: SEC 3/T23S/R26E/NMP

14. Distance in miles and direction from nearest town or post office*

12. County or Parish: EDDY

13. State: NM

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any): 1007 feet

16. No of acres in lease:

17. Spacing Unit dedicated to this well: 800.0

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.: 33 feet

19. Proposed Depth: 7755 feet / 20687 feet

20. BLM/BIA Bond No. in file: FED: NMB001841

21. Elevations (Show whether DF, KDB, RT, GL, etc.): 3305 feet

22. Approximate date work will start*: 03/20/2026

23. Estimated duration: 90 days

## 24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable)

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification.
6. Such other site specific information and/or plans as may be requested by the BLM.

| 25. Signature | Name *(Printed/Typed)* | Date |
|---|---|---|
| (Electronic Submission) | CASSIE EVANS / Ph: (432) 695-4222 | 12/05/2025 |

Title: Regulatory Specialist

| Approved by *(Signature)* | Name *(Printed/Typed)* | Date |
|---|---|---|
| (Electronic Submission) | CODY LAYTON / Ph: (575) 234-5959 | 02/13/2026 |

| Title | Office |
|---|---|
| Assistant Field Manager Lands & Minerals | Carlsbad Field Office |

Application approval 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.
Conditions of approval, if any, are attached.

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.

APPROVED WITH CONDITIONS

(Continued on page 2)

*(Instructions on page 2)

**Approval Date: 02/13/2026**

## INSTRUCTIONS

GENERAL: This form is designed for submitting proposals to perform certain well operations, as indicated on Federal and Indian lands and leases for action by appropriate Federal agencies, pursuant to applicable Federal laws 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, either are shown below or will be issued by, or may be obtained from local Federal offices.

ITEM I: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable Federal regulations concerning subsequent work proposals or reports on the well.

ITEM 4: Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local Federal offices for specific instructions.

ITEM 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on the reverse side, showing the roads to, and the surveyed location of, the wen, and any other required information, should be furnished when required by Federal agency offices.

ITEMS 15 AND 18: If well is to be, or has been directionany drilled, give distances for subsurface location of hole in any present or objective productive zone.

ITEM 22: Consult applicable Federal regulations, or appropriate officials, concerning approval of the proposal before operations are started.

ITEM 24: 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 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., 25 U.S.C. 396; 43 CFR 3160

PRINCIPAL PURPOSES: The information will be used to: (1) process and evaluate your application for a permit to drill a new oil, gas, or service wen or to reenter a plugged and abandoned well; and (2) document, for administrative use, information for the management, disposal and use of National Resource Lands and resources including (a) analyzing your proposal to discover and extract the Federal or Indian resources encountered; (b) reviewing procedures and equipment and the projected impact on the land involved; and (c) evaluating the effects of the proposed operation on the surface and subsurface water and other environmental impacts.

ROUTINE USE: Information from the record and/or the record win be transferred to appropriate Federal, State, and local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecution, in connection with congressional inquiries and for regulatory responsibilities.

EFFECT OF NOT PROVIDING INFORMATION: Filing of this application and disclosure of the information is mandatory only if you elect to initiate a drilling or reentry operation on an oil and gas lease.

The Paperwork Reduction Act of 1995 requires us to inform you that:
The BLM conects this information to anow evaluation of the technical, safety, and environmental factors involved with drilling for oil and/or gas on Federal and Indian oil and gas leases. This information will be used to analyze and approve applications. Response to this request is mandatory only if the operator elects to initiate drilling or reentry operations on an oil and gas lease. 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 of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Conection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 LS, Washington, D.C. 20240.



(Continued on page 3)



**Approval Date: 02/13/2026**

## Additional Operator Remarks

### Location of Well

0. SHL: NWSW / 1562 FSL / 1007 FWL / TWSP: 23S / RANGE: 26E / SECTION: 3 / LAT: 32.330744 / LONG: -104.286366 ( TVD: 0 feet, MD: 0 feet )

PPP: NWSW / 1980 FSL / 100 FWL / TWSP: 23S / RANGE: 26E / SECTION: 3 / LAT: 32.331871 / LONG: -104.289271 ( TVD: 7755 feet, MD: 8095 feet )

PPP: NWSW / 1980 FSL / 0 FWL / TWSP: 23S / RANGE: 26E / SECTION: 2 / LAT: 32.331966 / LONG: -104.272251 ( TVD: 7755 feet, MD: 13375 feet )

PPP: NESW / 1980 FSL / 1336 FWL / TWSP: 23S / RANGE: 26E / SECTION: 2 / LAT: 32.331977 / LONG: -104.267924 ( TVD: 7755 feet, MD: 14695 feet )

BHL: NESW / 1980 FSL / 2567 FWL / TWSP: 23S / RANGE: 26E / SECTION: 1 / LAT: 32.33197 / LONG: -104.246646 ( TVD: 7755 feet, MD: 20687 feet )

## BLM Point of Contact

Name: JANET D ESTES
Title: ADJUDICATOR
Phone: (575) 234-6233
Email: JESTES@BLM.GOV

# Donnie Brasco FED COM 173H

## APD - Geology COAs (Not in Potash or WIPP)

- For at least one well per pad (deepest well within initial development preferred) the record of the drilling rate (ROP) along with the Gamma Ray (GR) and Neutron (CNL) well logs run from TVD to surface in the vertical section of the hole shall be submitted to the BLM office as well as all other logs run on the full borehole 30 days from completion. Any other logs run on the wellbore, excluding cement remediation, should also be sent. Only digital copies of the logs in .TIF or .LAS formats are necessary; paper logs are no longer required. Logs shall be emailed to blm-cfo-geology@doimspp.onmicrosoft.com. Well completion report should have .pdf copies of any CBLs or Temp Logs run on the wellbore.

- Exceptions: In areas where there is extensive log coverage (in particular the salt zone adjacent to a pad), Operators are encouraged to contact BLM Geologists to discuss if additional GR and N logs are necessary on a pad. Operator may request a waiver of the GR and N log requirement due to good well control or other reasons to be approved by BLM Geologist prior to well completion. A waiver approved by BLM must be attached to completion well report to satisfy COAs.

- The top of the Rustler, top and bottom of the Salt, and the top of the Capitan Reef (if present) are to be recorded on the Completion Report.

Be aware that:

- H2S has been reported within one mile of the proposed project. Measurements up to 39779 ppm were recorded.

Questions? Contact Thomas Evans, BLM Geologist at 575-234-5965 or tvevans@blm.gov

# PECOS DISTRICT
# DRILLING CONDITIONS OF APPROVAL

| | |
|---|---|
| **OPERATOR'S NAME:** | Permian Resources Operating LLC |
| **WELL NAME & NO.:** | Donnie Brasco Fed Com 173H |
| **LOCATION:** | Sec 04-23S-26E-NMP |
| **COUNTY:** | Eddy County, New Mexico |

**Create COAs**

| $H_2S$ | Cave / Karst | Waste Prevention Rule |
|---|---|---|
| Present | Medium | Waste Minimization Plan |
| **Potash** | **R-111-Q Design** | |
| None | | |
| **Wellhead**: Multibowl | **Casing**: 3-String Well | ☐ Liner ☐ Fluid Filled ☐ Casing Clearance |
| ☑ Flex Hose ☑ Break Testing | **Cementing**: ☐ DV Tool ☐ Bradenhead ☐ Echometer ☑ Offline Cement ☐ Open Annulus ☐ Pilot Hole | |
| **Special Requirements**: ☐ Capitan Reef ☐ Water Disposal ☑ COM ☐ Unit | | |

**A. HYDROGEN SULFIDE**

A Hydrogen Sulfide ($H_2S$) Drilling Plan shall be activated **at surface**. As a result, 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, please provide measured values and formations to the BLM.

**B. CASING**

1. The **13-3/8** inch surface casing shall be set at approximately **350** feet (a minimum of **70'** into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface. **Set depth adjusted per BLM geologist.**
    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



 **Approval Date: 02/13/2026**

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 (including 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 **(set at 1695' per BLM geologist)** 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 the presence of cave/karst, Capitan Reef, or potash features.

3. The minimum required fill of cement behind the **5-1/2** inch production casing is at least **200 feet** into previous casing string. Operator shall provide method of verification.
   - If cement does not circulate to surface on the previous casing, this string must come to surface.
   - **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry** due to the presence of cave/karst, Capitan Reef, or potash features.

## C. PRESSURE CONTROL

1. Operator has proposed a multi-bowl wellhead assembly. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M)** psi.
   a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
   b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
   c. Manufacturer representative shall install the test plug for the initial BOP test.
   d. If the cement does not circulate and one-inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
   e. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172 must be followed.

2. 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).

3. Break testing has been approved for this well ONLY on those intervals utilizing a 5M BOPE or less. **(Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP.)** If in the event break testing is not utilized, then a full BOPE test would be conducted.
    a. Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation. **BOPE Break Testing is NOT permitted to drill the production hole section.**
    b. While in transfer between wells, BOPE shall be secured by the hydraulic carrier or cradle.
    c. A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
    d. As a minimum, a full BOPE test shall be performed at 21-day intervals.
    e. In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per **43 CFR 3172**. Any well control event while drilling require notification to the BLM Petroleum Engineer **(575-706-2779)** prior to the commencement of any BOPE Break Testing operations.

## 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**

Offline cementing has been approved for **all hole sections, excluding production.** 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)

**Contact Eddy County Petroleum Engineering Inspection Staff:**

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

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
        i. Notify the BLM when moving in and removing the Spudder Rig.
        ii. 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.
        iii. BOP/BOPE test to be conducted per **43 CFR 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. For intervals in which cement to surface is required, cement to surface should be verified with a visual check and density or pH check to differentiate cement from spacer and drilling mud. The results should be documented in the driller's log and daily reports.

## 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 of both lead and tail cement, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. The casing integrity 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-Q 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 3172**.
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:
    i. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
    ii. 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.
    iii. Manufacturer representative shall install the test plug for the initial BOP test.
    iv. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
    v. 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.
    i. 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).
    ii. 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.)
    iii. 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 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 8 hours or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).

iv. 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.

v. The results of the test shall be reported to the appropriate BLM office.

vi. 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.

vii. 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.

viii. 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 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.

AFMSS

U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

# Operator Certification Data Report

02/18/2026

## Operator

*I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.*

**NAME:** CASSIE EVANS **Signed on:** 12/05/2025

**Title:** Regulatory Specialist

**Street Address:** 300 N MARIENFELD ST STE 1000

**City:** MIDLAND **State:** TX **Zip:** 79701

**Phone:** (432)260-4388

**Email address:** CASSIE.EVANS@PERMIANRES.COM

## Field

*Released to Imaging: 5/1/2026 9:47:52 AM*

**Representative Name:**

**Street Address:**

**City:** **State:** **Zip:**

**Phone:**

**Email address:**

Received by OCD: 2/18/2026 11:56:16 AM

AFMSS

U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

# Application Data

02/18/2026

**APD ID:** 10400109079 **Submission Date:** 12/05/2025

**Operator Name:** PERMIAN RESOURCES OPERATING LLC

**Well Name:** DONNIE BRASCO FED COM **Well Number:** 173H

**Well Type:** CONVENTIONAL GAS WELL **Well Work Type:** Drill

Highlighted data reflects the most recent changes

Show Final Text

## Section 1 - General

**APD ID:** 10400109079 **Tie to previous NOS?** **Submission Date:** 12/05/2025

**BLM Office:** Carlsbad **User:** CASSIE EVANS **Title:** Regulatory Specialist

**Federal/Indian APD:** FED **Is the first lease penetrated for production Federal or Indian?** FED

**Lease number:** NMNM040547 **Lease Acres:**

**Surface access agreement in place?** **Allotted?** **Reservation:**

**Agreement in place?** NO **Federal or Indian agreement:**

**Agreement number:**

**Agreement name:**

**Keep application confidential?** N

**Permitting Agent?** NO **APD Operator:** PERMIAN RESOURCES OPERATING LLC

**Operator letter of**

## Operator Info

**Operator Organization Name:** PERMIAN RESOURCES OPERATING LLC

**Operator Address:** 300 N MARIENFELD ST SUITE 1000 **Zip:** 79701

**Operator PO Box:**

**Operator City:** MIDLAND **State:** TX

**Operator Phone:** (432)695-4222

**Operator Internet Address:**

## Section 2 - Well Information

**Well in Master Development Plan?** NO **Master Development Plan name:**

**Well in Master SUPO?** NO **Master SUPO name:**

**Well in Master Drilling Plan?** NO **Master Drilling Plan name:**

**Well Name:** DONNIE BRASCO FED COM **Well Number:** 173H

**Field/Pool or Exploratory?** Field and Pool **Field Name:** WC-016 G-04 **Pool Name:** BONE SPRING S232628M

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**Operator Name:** PERMIAN RESOURCES OPERATING LLC

**Well Name:** DONNIE BRASCO FED COM **Well Number:** 173H

**Is the proposed well in an area containing other mineral resources?** USEABLE WATER,NATURAL GAS,OIL

**Is the proposed well in a Helium production area?** N **Use Existing Well Pad?** N **New surface disturbance?**

**Type of Well Pad:** MULTIPLE WELL **Multiple Well Pad Name:** Donnie Brasco East Pad **Number:** 1

**Well Class:** HORIZONTAL **Number of Legs:** 1

**Well Work Type:** Drill

**Well Type:** CONVENTIONAL GAS WELL

**Describe Well Type:**

**Well sub-Type:** OTHER

**Describe sub-type:** Defining

**Distance to town:** **Distance to nearest well:** 33 FT **Distance to lease line:** 1007 FT

**Reservoir well spacing assigned acres Measurement:** 800 Acres

**Well plat:** DONNIE_BRASCO_FED_COM_173H_C102_20251205083413.pdf

**Well work start Date:** 03/20/2026 **Duration:** 90 DAYS

## Section 3 - Well Location Table

**Survey Type:** RECTANGULAR

**Describe Survey Type:**

**Datum:** NAD83 **Vertical Datum:** NAVD88

**Survey number:** 12177 **Reference Datum:** GROUND LEVEL

| Wellbore | NS-Foot | NS Indicator | EW-Foot | EW Indicator | Twsp | Range | Section | Aliquot/Lot/Tract | Latitude | Longitude | County | State | Meridian | Lease Type | Lease Number | Elevation | MD | TVD | Will this well produce from this |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SHL Leg #1 | 1562 | FSL | 1007 | FWL | 23S | 26E | 3 | Aliquot NWSW | 32.330744 | -104.286366 | EDDY | NEW MEXICO | NEW MEXICO | S | STATE | 3305 | | | N |
| KOP Leg #1 | 1562 | FSL | 1007 | FWL | 23S | 26E | 3 | Aliquot NWSW | 32.330744 | -104.286366 | EDDY | NEW MEXICO | NEW MEXICO | S | STATE | -3973 | 7435 | 7278 | N |
| PPP Leg #1-1 | 1980 | FSL | 100 | FWL | 23S | 26E | 3 | Aliquot NWSW | 32.331871 | -104.289271 | EDDY | NEW MEXICO | NEW MEXICO | S | STATE | -4450 | 8095 | 7755 | Y |

**Operator Name:** PERMIAN RESOURCES OPERATING LLC

**Well Name:** DONNIE BRASCO FED COM **Well Number:** 173H

| Wellbore | NS-Foot | NS Indicator | EW-Foot | EW Indicator | Twsp | Range | Section | Aliquot/Lot/Tract | Latitude | Longitude | County | State | Meridian | Lease Type | Lease Number | Elevation | MD | TVD | Will this well produce from this |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PPP Leg #1-2 | 1980 | FSL | 0 | FWL | 23S | 26E | 2 | Aliquot NWSW | 32.331966 | -104.272251 | EDDY | NEW MEXICO | NEW MEXICO | S | STATE | -4450 | 13375 | 7755 | Y |
| PPP Leg #1-3 | 1980 | FSL | 1336 | FWL | 23S | 26E | 2 | Aliquot NESW | 32.331977 | -104.267924 | EDDY | NEW MEXICO | NEW MEXICO | S | STATE | -4450 | 14695 | 7755 | Y |
| EXIT Leg #1 | 1980 | FSL | 2567 | FWL | 23S | 26E | 1 | Aliquot NESW | 32.33197 | -104.246646 | EDDY | NEW MEXICO | NEW MEXICO | F | NMNM 040547 | -4450 | 20687 | 7755 | Y |
| BHL Leg #1 | 1980 | FSL | 2567 | FWL | 23S | 26E | 1 | Aliquot NESW | 32.33197 | -104.246646 | EDDY | NEW MEXICO | NEW MEXICO | F | NMNM 040547 | -4450 | 20687 | 7755 | Y |

| C-102 | State of New Mexico<br>Energy, Minerals & Natural Resources Department<br>OIL CONSERVATION DIVISION | Revised July 9, 2024 |
|---|---|---|
| Submit Electronically<br>Via OCD Permitting | | Submittal Type: ☑ Initial Submittal ☐ Amended Report ☐ As Drilled |

WELL LOCATION INFORMATION

| API Number | Pool Code | Pool Name |
|---|---|---|
| 30-015-58171 | 98056 | WC-015 G-04 S232628M, BONE SPRING |
| **Property Code** | **Property Name** | **Well Number** |
| 339010 | DONNIE BRASCO FED COM | 173H |
| **OGRID No.** | **Operator Name** | **Ground Level Elevation** |
| 372165 | PERMIAN RESOURCES OPERATING, LLC | 3,305' |

Surface Owner: ☒ State ☐ Fee ☐ Tribal ☐ Federal | Mineral Owner: ☒ State ☐ Fee ☐ Tribal ☒ Federal

Surface Location

| UL | Section | Township | Range | Lot | Ft. from N/S | Ft. from E/W | Latitude | Longitude | County |
|---|---|---|---|---|---|---|---|---|---|
| L | 3 | 23S | 26E | | 1,562' FSL | 1,007' FWL | 32.330744° | -104.286366° | EDDY |

Bottom Hole Location

| UL | Section | Township | Range | Lot | Ft. from N/S | Ft. from E/W | Latitude | Longitude | County |
|---|---|---|---|---|---|---|---|---|---|
| K | 1 | 23S | 26E | | 1,980' FSL | 2,567' FWL | 32.331970° | -104.246646° | EDDY |

| Dedicated Acres | Infill or Defining Well | Defining Well API | Overlapping Spacing Unit (Y/N) | Consolidation Code |
|---|---|---|---|---|
| 800 | Infill | 131H | N | |

Order Numbers. TBD | Well setbacks are under Common Ownership: ☐Yes ☒No

Kick Off Point (KOP)

| UL | Section | Township | Range | Lot | Ft. from N/S | Ft. from E/W | Latitude | Longitude | County |
|---|---|---|---|---|---|---|---|---|---|
| L | 3 | 23S | 26E | | 1,562' FSL | 1,007' FWL | 32.330744° | -104.286366° | EDDY |

First Take Point (FTP)

| UL | Section | Township | Range | Lot | Ft. from N/S | Ft. from E/W | Latitude | Longitude | County |
|---|---|---|---|---|---|---|---|---|---|
| L | 3 | 23S | 26E | | 1,980' FSL | 100' FWL | 32.331871° | -104.289271° | EDDY |

Last Take Point (LTP)

| UL | Section | Township | Range | Lot | Ft. from N/S | Ft. from E/W | Latitude | Longitude | County |
|---|---|---|---|---|---|---|---|---|---|
| K | 1 | 23S | 26E | | 1,980' FSL | 2,567' FWL | 32.331970° | -104.246646° | EDDY |

| Unitized Area or Area of Uniform Interest | Spacing Unit Type | Ground Floor Elevation: |
|---|---|---|
| NA | ☒ Horizontal ☐ Vertical | TBD |

**OPERATOR CERTIFICATIONS**

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, 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 a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.

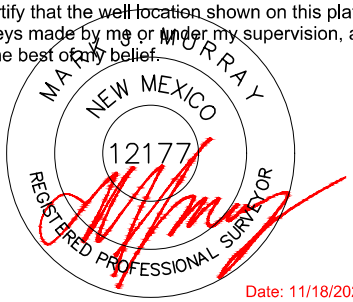
Signature: Cassie Evans Date: 12/4/25

Printed Name: Cassie Evans

Email Address: cassie.evans@permianres.com

**SURVEYOR CERTIFICATIONS**

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: 11/18/2025

Signature and Seal of Professional Surveyor

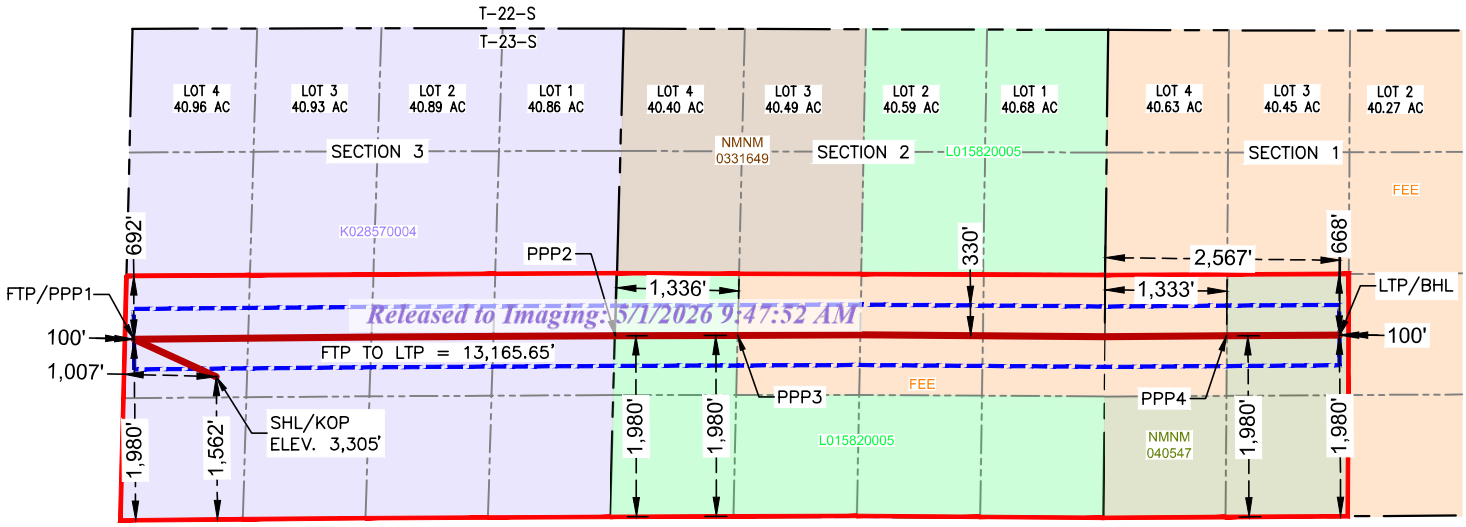
| Certificate Number | Date of Survey | Revision Number |
|---|---|---|
| 12177 | 11/18/2025 | 3 |

Note: 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.

ACREAGE DEDICATION PLATS

This grid represents a standard section. You may superimpose a non-standard section, or larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is directionally drilled, with the dimensions from the section lines in the cardinal directions. If this is a horizontal wellbore show on this plat the location of the First Take Point and Last Take Point, and the point within the Completed interval (other than the First Take Point or Last Take Point) that is closest to any outer boundary of the tract.

Surveyors shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land is not surveyed, contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.




## DONNIE BRASCO FED COM 173H

| SURFACE HOLE LOCATION & KICK-OFF POINT<br>1,562' FSL & 1,007' FWL<br>ELEV. = 3,305' | FIRST TAKE POINT & PENETRATION POINT 1<br>1,980' FSL & 100' FWL | PENETRATION POINT 2<br>1,980' FSL & 0' FWL |
|---|---|---|
| NAD 83 X = 555,844.34' | NAD 83 X = 554,946.95' | NAD 83 X = 560,203.74' |
| NAD 83 Y = 484,060.12' | NAD 83 Y = 484,469.50' | NAD 83 Y = 484,506.74' |
| NAD 83 LAT = 32.330744° | NAD 83 LAT = 32.331871° | NAD 83 LAT = 32.331966° |
| NAD 83 LONG = -104.286366° | NAD 83 LONG = -104.289271° | NAD 83 LONG = -104.272251° |
| NAD 27 X = 514,662.79' | NAD 27 X = 513,765.43' | NAD 27 X = 519,022.14' |
| NAD 27 Y = 484,001.47' | NAD 27 Y = 484,410.86' | NAD 27 Y = 484,447.99' |
| NAD 27 LAT = 32.330627° | NAD 27 LAT = 32.331754° | NAD 27 LAT = 32.331848° |
| NAD 27 LONG = -104.285862° | NAD 27 LONG = -104.288767° | NAD 27 LONG = -104.271748° |

| PENETRATION POINT 3<br>1,980' FSL & 1,336' FWL | PENETRATION POINT 4<br>1,980' FSL & 1,333' FWL | LAST TAKE POINT & BOTTOM HOLE LOCATION<br>1,980' FSL & 2,567' FWL |
|---|---|---|
| NAD 83 X = 561,540.24' | NAD 83 X = 566,878.85' | NAD 83 X = 568,112.32' |
| NAD 83 Y = 484,511.66' | NAD 83 Y = 484,505.35' | NAD 83 Y = 484,513.67' |
| NAD 83 LAT = 32.331977° | NAD 83 LAT = 32.331950° | NAD 83 LAT = 32.331970° |
| NAD 83 LONG = -104.267924° | NAD 83 LONG = -104.250639° | NAD 83 LONG = -104.246646° |
| NAD 27 X = 520,358.61' | NAD 27 X = 525,697.14' | NAD 27 X = 526,930.59' |
| NAD 27 Y = 484,452.88' | NAD 27 Y = 484,446.45' | NAD 27 Y = 484,454.75' |
| NAD 27 LAT = 32.331860° | NAD 27 LAT = 32.331832° | NAD 27 LAT = 32.331852° |
| NAD 27 LONG = -104.267421° | NAD 27 LONG = -104.250137° | NAD 27 LONG = -104.246144° |

**APD ID:** 10400109079 **Submission Date:** 12/05/2025

**Operator Name:** PERMIAN RESOURCES OPERATING LLC

**Well Name:** DONNIE BRASCO FED COM **Well Number:** 173H

**Well Type:** CONVENTIONAL GAS WELL **Well Work Type:** Drill

Highlighted data reflects the most recent changes

Show Final Text

## Section 1 - Geologic Formations

| Formation ID | Formation Name | Elevation | True Vertical | Measured Depth | Lithologies | Mineral Resources | Producing Formatio |
|---|---|---|---|---|---|---|---|
| 17445104 | QUATERNARY | 3305 | 0 | 0 | ALLUVIUM | USEABLE WATER | N |
| 17445105 | RUSTLER | 3295 | 10 | 10 | ANHYDRITE, SANDSTONE | USEABLE WATER | N |
| 17445106 | TOP OF SALT | 3005 | 300 | 300 | SALT | USEABLE WATER | N |
| 17445107 | CAPITAN REEF | 2830 | 475 | 475 | ANHYDRITE, SHALE | NATURAL GAS, OIL | N |
| 17445108 | BELL CANYON | 1495 | 1810 | 1816 | SANDSTONE | USEABLE WATER | N |
| 17445109 | CHERRY CANYON | 820 | 2485 | 2499 | SANDSTONE | NATURAL GAS, OIL | N |
| 17445110 | BRUSHY CANYON | -272 | 3577 | 3605 | SANDSTONE | NATURAL GAS, OIL | N |
| 17445111 | BONE SPRING LIME | -1747 | 5052 | 5097 | LIMESTONE, SANDSTONE, SHALE | NATURAL GAS, OIL | N |
| 17445113 | BONE SPRING 1ST | -2702 | 6007 | 6064 | LIMESTONE, SANDSTONE, SHALE | NATURAL GAS, OIL | N |
| 17445118 | BONE SPRING 2ND | -3166 | 6471 | 6534 | LIMESTONE, SANDSTONE, SHALE | NATURAL GAS, OIL | N |

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## Section 2 - Blowout Prevention

**Pressure Rating (PSI):** 5M **Rating Depth:** 7755

**Equipment:** BOPE will meet all requirements for above listed system per 43 CFR 3172. 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 of the components installed will be functional, tested, and will meet all requirements per 43 CFR 3172. The wellhead will be a multibowl speed head allowing for hangoff of intermediate casing of the surface x intermediate annulus without breaking the connection between the BOP & wellhead. A variance is requested to utilize a flexible choke line (flexhose) from the BOP to choke manifold.

**Requesting Variance?** YES

**Variance request:** Multibowl Wellhead, Flexhose, Breaktesting, Offline Cementing Variances. Attachments in Section 8.

**Operator Name:** PERMIAN RESOURCES OPERATING LLC

**Well Name:** DONNIE BRASCO FED COM **Well Number:** 173H

**Testing Procedure:** Operator requests to ONLY test broken pressure seals per API Standard 53 and the attachments in Section 8. 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 21-day intervals. Testing of the ram type preventer(s) and annual type preventer(s) shall be tested per 43 CFR 3172. The BOPE configuration, choke manifold layout, and accumulator system will be in compliance with 43 CFR 3172. Bleed lines will discharge 100' from wellhead in non-H2S scenarios and 150' from wellhead in H2S scenarios.

**Choke Diagram Attachment:**

Donnie_B_Fed_Com_5MCM_20250826155518.pdf

**BOP Diagram Attachment:**

Donnie_B_Fed_Com_5M_BOP_20250826155528.pdf

## Section 3 - Casing

| Casing ID | String Type | Hole Size | Csg Size | Condition | Standard | Tapered String | Top Set MD | Bottom Set MD | Top Set TVD | Bottom Set TVD | Top Set MSL | Bottom Set MSL | Calculated casing length MD | Grade | Weight | Joint Type | Collapse SF | Burst SF | Joint SF Type | Joint SF | Body SF Type | Body SF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | SURFACE | 17.5 | 13.375 | NEW | API | N | 0 | 275 | 0 | 275 | 3305 | 3030 | 275 | J-55 | 54.5 | BUTT | 8.32 | 3.06 | DRY | 7.91 | DRY | 7.42 |
| 2 | INTERMEDIATE | 12.25 | 9.625 | NEW | API | N | 0 | 1720 | 0 | 1720 | 3700 | 1585 | 1720 | J-55 | 36 | BUTT | 3.04 | 1.71 | DRY | 4.41 | DRY | 3.89 |
| 3 | PRODUCTION | 8.5 | 5.5 | NEW | NON API | N | 0 | 20687 | 0 | 7755 | 3671 | -4450 | 20687 | P-110 | 20 | OTHER - Bushmaster SP | 2.62 | 2.73 | DRY | 2.76 | DRY | 2.76 |

**Casing Attachments**

**Casing ID:** 1 **String** SURFACE

**Inspection Document:**

**Spec Document:**

**Tapered String Spec:**

**Casing Design Assumptions and Worksheet(s):**

DONNIE_BRASCO_FED_COM_173H_csg_20251205083959.pdf

**Operator Name:** PERMIAN RESOURCES OPERATING LLC

**Well Name:** DONNIE BRASCO FED COM **Well Number:** 173H

**Casing Attachments**

**Casing ID:** 2 **String** INTERMEDIATE

**Inspection Document:**

**Spec Document:**

**Tapered String Spec:**

**Casing Design Assumptions and Worksheet(s):**

DONNIE_BRASCO_FED_COM_173H_csg_20251205084015.pdf

**Casing ID:** 3 **String** PRODUCTION

**Inspection Document:**

**Spec Document:**

Donnie_B_Fed_Com_Prod_Csg_Spec_20250826155623.pdf

**Tapered String Spec:**

**Casing Design Assumptions and Worksheet(s):**

DONNIE_BRASCO_FED_COM_173H_csg_20251205084034.pdf

## Section 4 - Cement

| String Type | Lead/Tail | Stage Tool Depth | Top MD | Bottom MD | Quantity(sx) | Yield | Density | Cu Ft | Excess% | Cement type | Additives |
|---|---|---|---|---|---|---|---|---|---|---|---|
| SURFACE | Lead | | 0 | 275 | 220 | 1.88 | 12.9 | 370 | 100 | Class C | EconoCem-HCL+5%Salt+5% Kol- |
| INTERMEDIATE | Lead | 500 | 0 | 500 | 120 | 1.88 | 12.9 | 210 | 50 | Class C | EconoCem-HLC+5%Salt+5% KOL- |
| INTERMEDIATE | Tail | | 500 | 1720 | 350 | 1.34 | 14.8 | 580 | 50 | Class C | Retarder |
| PRODUCTION | Lead | | 0 | 7435 | 1030 | 2.41 | 11.5 | 2470 | 40 | Class H | POZ, Extender, Fluid Loss, Dispersant, Retarder |

**Operator Name:** PERMIAN RESOURCES OPERATING LLC

**Well Name:** DONNIE BRASCO FED COM **Well Number:** 173H

| String Type | Lead/Tail | Stage Tool Depth | Top MD | Bottom MD | Quantity(sx) | Yield | Density | Cu Ft | Excess% | Cement type | Additives |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PRODUCTION | Tail | | 7435 | 20687 | 2250 | 1.73 | 12.5 | 3880 | 25 | Class H | POZ, Extender, Fluid Loss, Dispersant, Retarder |

## Section 5 - Circulating Medium

**Mud System Type:** Closed

**Will an air or gas system be Used?** NO

**Description of the equipment for the circulating system in accordance with 43 CFR 3172:**

**Diagram of the equipment for the circulating system in accordance with 43 CFR 3172:**

**Describe what will be on location to control well or mitigate other 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.

## Circulating Medium Table

| Top Depth | Bottom Depth | Mud Type | Min Weight (lbs/gal) | Max Weight (lbs/gal) | Density (lbs/cu ft) | Gel Strength (lbs/100 sqft) | PH | Viscosity (CP) | Salinity (ppm) | Filtration (cc) | Additional Characteristics |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 275 | 1720 | SALT SATURATED | 8.6 | 9.5 | | | | | | | |
| 1720 | 20687 | OTHER : OBM / Brine | 9 | 10.5 | | | | | | | |
| 0 | 275 | SPUD MUD | 8.6 | 9.5 | | | | | | | |

**Operator Name:** PERMIAN RESOURCES OPERATING LLC

**Well Name:** DONNIE BRASCO FED COM **Well Number:** 173H

## Section 6 - Test, Logging, Coring

**List of production tests including testing procedures, equipment and safety measures:**

Will utilize MWD/LWD from intermediate hole to TD of the well.

**List of open and cased hole logs run in the well:**

DIRECTIONAL SURVEY,

**Coring operation description for the well:**

No Coring is Planned

## Section 7 - Pressure

**Anticipated Bottom Hole Pressure:** 4240 **Anticipated Surface Pressure:** 2533

**Anticipated Bottom Hole Temperature(F):** 135

**Anticipated abnormal pressures, temperatures, or potential geologic hazards?** NO

**Describe:**

**Contingency Plans geoharzards description:**

**Contingency Plans geohazards**

**Hydrogen Sulfide drilling operations plan required?** YES

**Hydrogen sulfide drilling operations**

Donnie_B_Fed_Com_IR_East_20251205060449.pdf

## Section 8 - Other Information

**Proposed horizontal/directional/multi-lateral plan submission:**

DONNIE_BRASCO_FED_COM_173H_DD_20251205084125.pdf
DONNIE_BRASCO_FED_COM_173H_AC_20251205084126.pdf

**Other proposed operations facets description:**

**Other proposed operations facets attachment:**

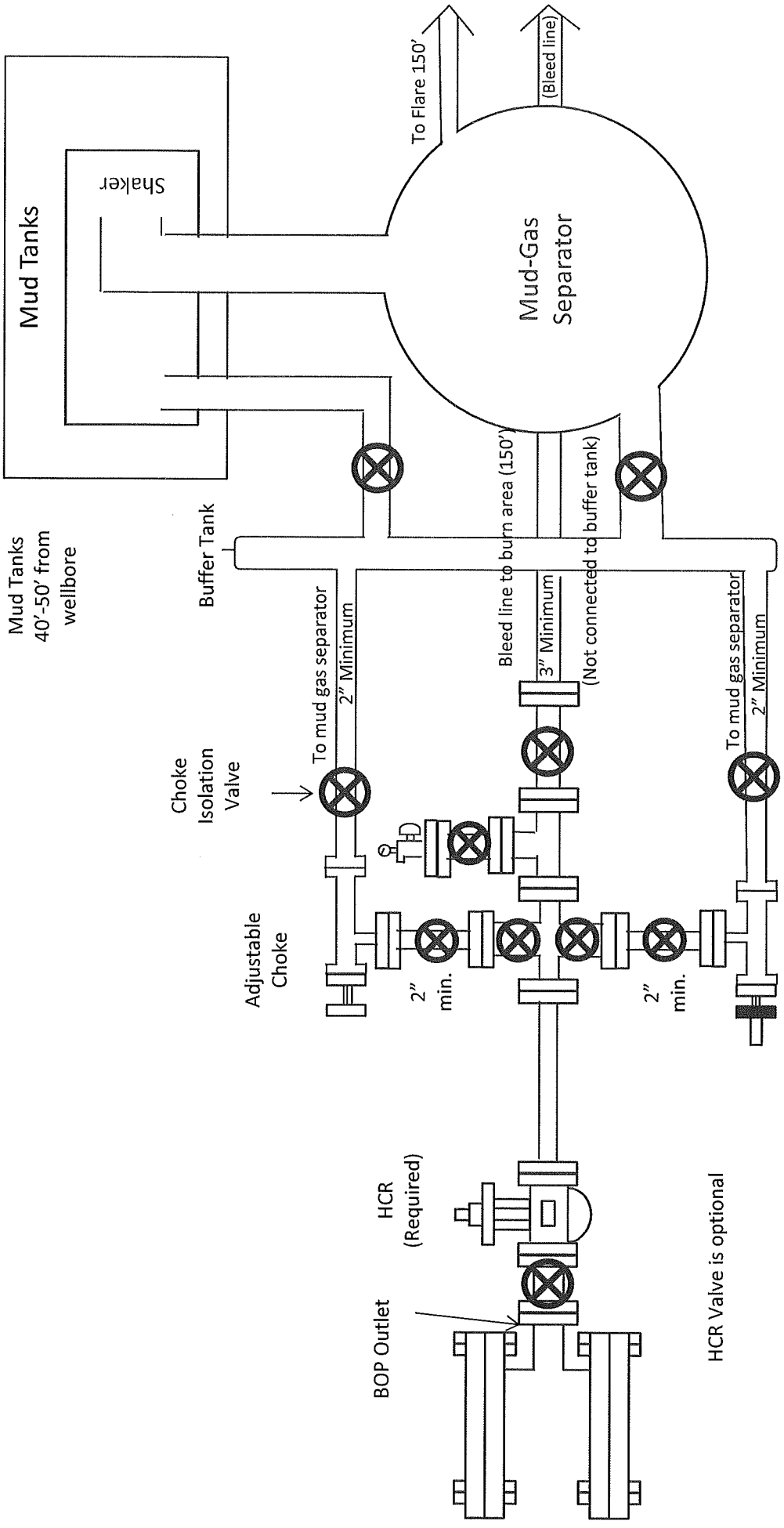
Donnie_B_Fed_Com_NGMP_20251205060534.pdf

**Other Variance request(s)?:** Y

**Other Variance attachment:**

Donnie_B_Fed_Com_Batch_20250826155918.pdf
Donnie_B_Fed_Com_Break_20250826155918.pdf
Donnie_B_Fed_Com_FH_20250826155918.pdf
Donnie_B_Fed_Com_MTS_20250826155919.pdf
Donnie_B_Fed_Com_OLCV_20250826155918.pdf

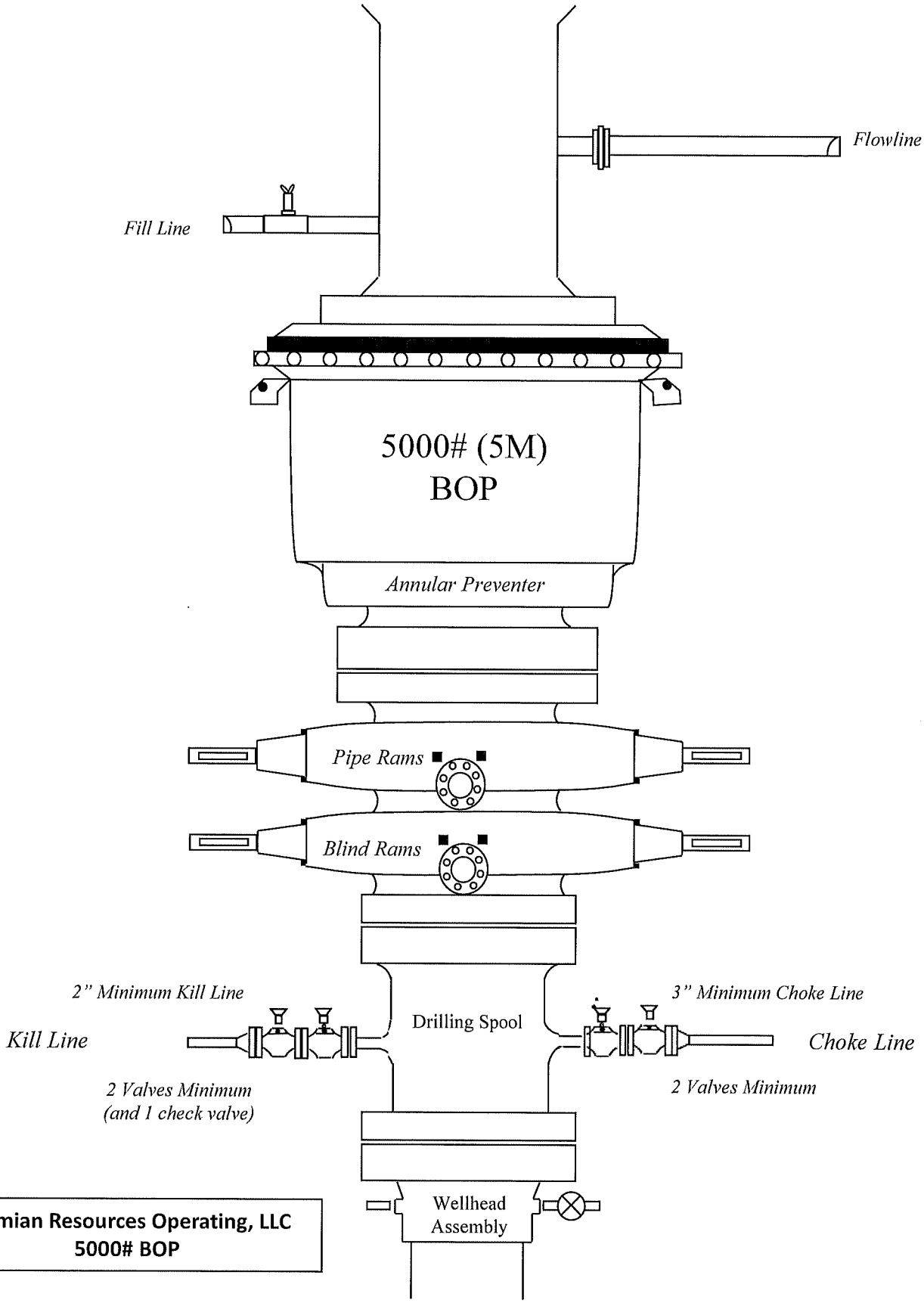
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5M Choke Manifold Diagram
Permian Resources Operating, LLC

**Drilling Operations**
**Choke Manifold**
**5M Service**

Bleed lines will discharge 100' from WH in non-H2S scenarios and 150' from WH in H2S scenarios.




**Permian Resources Operating, LLC**
**5000# BOP**

Bleed lines will discharge 100' from WH in non-H2S scenarios and 150' from WH in H2S scenarios.

# Connection Data Sheet

Issued on: May. 09, 2025

## 5.500" 17.00# P-110 RY (SeAH) Bushmaster® SP SC6.050

| Pipe Body Data | | |
|---|---|---|
| Nominal OD | 5.500 | in. |
| Wall Thickness | 0.304 | in. |
| Weight | 17.00 | lb/ft |
| PE Weight | 16.89 | lb/ft |
| Nominal ID | 4.892 | in. |
| Drift | 4.767 | in. |
| Minimum Yield Strength | 110,000 | psi |
| Minimum Tensile Strength | 125,000 | psi |
| Remaining Body Wall (RBW) | 95.0% | Rating |

| Connection Data | | |
|---|---|---|
| Connection OD | 6.050 | in. |
| Connection ID | 4.892 | in. |
| Make-Up Loss | 4.209 | in. |
| Tension Efficiency | 100.0% | Rating |
| Compression Efficiency | 100.0% | Rating |
| Yield Strength in Tension | 546,000 | lbs |
| Yield Strength in Compression | 546,000 | lbs |
| MIYP (Burst) | 11,550 | psi |
| Collapse | 7,480 | psi |
| Uniaxial Bending | 91.7 | °/100ft. |

| Make-up Torque | | | |
|---|---|---|---|
| Max. Operating Torque | - | 37,300 | ft. lbs |
| Maximum Make-up | - | 17,900 | ft. lbs |
| Optimum Make-Up | - | 16,300 | ft. lbs |
| Minimum Make-Up | - | 14,700 | ft. lbs |

| Buck-on Torque | | | |
|---|---|---|---|
| Maximum Make-Up | - | 19,900 | ft. lbs |
| Optimum Make-Up | - | 18,100 | ft. lbs |
| Minimum Make-Up | - | 16,300 | ft. lbs |



**For technical support please email support@fermata-tech.com or call (281) 941-5257.**

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Connection performance values pertain to structural capacity.

Released to Imaging: 5/1/2026 9:47:52 AM
Received by OCD: 2/18/2026 11:56:16 AM

## 3. Casing

| String | Hole Size | Casing Size | Top | Bottom | Grade | Weight | Connection | Collapse SF | Burst SF | Joint SF Type | Joint SF | Body SF Type | Body SF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Surface | 17.5 | 13.375 | 0 | 275 | J55 | 54.5 | BTC | 8.32 | 3.06 | Dry | 7.91 | Dry | 7.42 |
| Intermediate | 12.25 | 9.625 | 0 | 1720 | J55 | 36 | BTC | 3.04 | 1.71 | Dry | 4.41 | Dry | 3.89 |
| Production | 8.75 | 5.5 | 0 | 8095 | P110RY | 17 | Bushmaster SP | 2.62 | 2.73 | Dry | 2.76 | Dry | 2.76 |
| Production | 8.5 | 5.5 | 8095 | 20687 | P110RY | 17 | Bushmaster SP | 2.62 | 2.73 | Dry | 2.76 | Dry | 2.76 |
| | | | | | BLM Min Safety Factor | | | 1.125 | 1 | | 1.6 | | 1.6 |

Non API casing spec sheets and casing design assumptions attached.

Released to Imaging: 5/1/2026 9:47:52 AM
Received by OCD: 2/18/2026 11:56:16 AM

## 3. Casing

| String | Hole Size | Casing Size | Top | Bottom | Grade | Weight | Connection | Collapse SF | Burst SF | Joint SF Type | Joint SF | Body SF Type | Body SF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Surface | 17.5 | 13.375 | 0 | 275 | J55 | 54.5 | BTC | 8.32 | 3.06 | Dry | 7.91 | Dry | 7.42 |
| Intermediate | 12.25 | 9.625 | 0 | 1720 | J55 | 36 | BTC | 3.04 | 1.71 | Dry | 4.41 | Dry | 3.89 |
| Production | 8.75 | 5.5 | 0 | 8095 | P110RY | 17 | Bushmaster SP | 2.62 | 2.73 | Dry | 2.76 | Dry | 2.76 |
| Production | 8.5 | 5.5 | 8095 | 20687 | P110RY | 17 | Bushmaster SP | 2.62 | 2.73 | Dry | 2.76 | Dry | 2.76 |
| | | | | | BLM Min Safety Factor | | | 1.125 | 1 | | 1.6 | | 1.6 |

Non API casing spec sheets and casing design assumptions attached.

Released to Imaging: 5/1/2026 9:47:52 AM
Received by OCD: 2/18/2026 11:56:16 AM

## 3. Casing

| String | Hole Size | Casing Size | Top | Bottom | Grade | Weight | Connection | Collapse SF | Burst SF | Joint SF Type | Joint SF | Body SF Type | Body SF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Surface | 17.5 | 13.375 | 0 | 275 | J55 | 54.5 | BTC | 8.32 | 3.06 | Dry | 7.91 | Dry | 7.42 |
| Intermediate | 12.25 | 9.625 | 0 | 1720 | J55 | 36 | BTC | 3.04 | 1.71 | Dry | 4.41 | Dry | 3.89 |
| Production | 8.75 | 5.5 | 0 | 8095 | P110RY | 17 | Bushmaster SP | 2.62 | 2.73 | Dry | 2.76 | Dry | 2.76 |
| Production | 8.5 | 5.5 | 8095 | 20687 | P110RY | 17 | Bushmaster SP | 2.62 | 2.73 | Dry | 2.76 | Dry | 2.76 |
| | | | | | BLM Min Safety Factor | | | 1.125 | 1 | | 1.6 | | 1.6 |

Non API casing spec sheets and casing design assumptions attached.

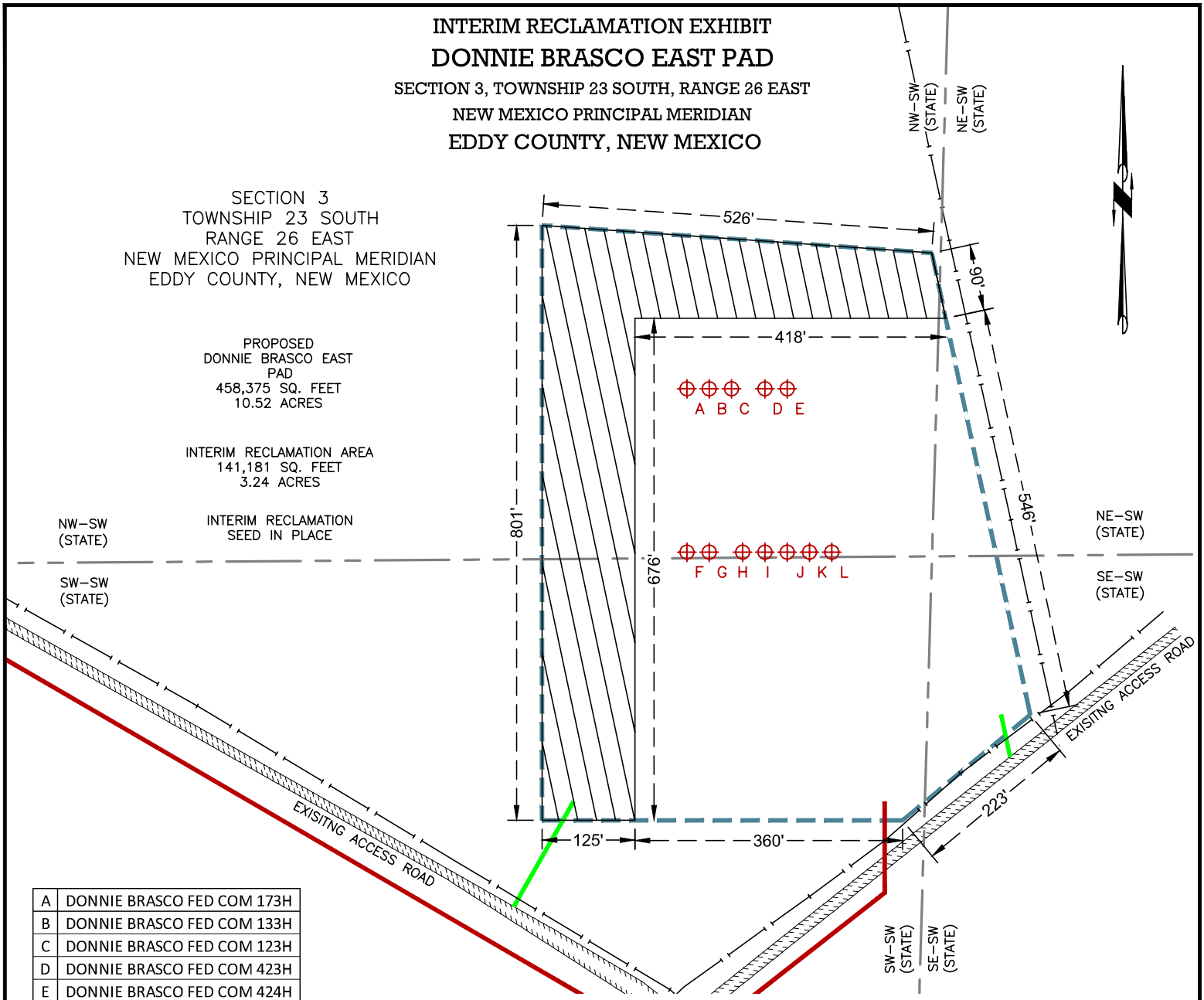
# INTERIM RECLAMATION EXHIBIT
# DONNIE BRASCO EAST PAD
SECTION 3, TOWNSHIP 23 SOUTH, RANGE 26 EAST
NEW MEXICO PRINCIPAL MERIDIAN
EDDY COUNTY, NEW MEXICO

SECTION 3
TOWNSHIP 23 SOUTH
RANGE 26 EAST
NEW MEXICO PRINCIPAL MERIDIAN
EDDY COUNTY, NEW MEXICO

PROPOSED
DONNIE BRASCO EAST
PAD
458,375 SQ. FEET
10.52 ACRES

INTERIM RECLAMATION AREA
141,181 SQ. FEET
3.24 ACRES

INTERIM RECLAMATION
SEED IN PLACE




| | |
|---|---|
| A | DONNIE BRASCO FED COM 173H |
| B | DONNIE BRASCO FED COM 133H |
| C | DONNIE BRASCO FED COM 123H |
| D | DONNIE BRASCO FED COM 423H |
| E | DONNIE BRASCO FED COM 424H |
| F | DONNIE BRASCO FED COM 113H |
| G | DONNIE BRASCO FED COM 114H |
| H | DONNIE BRASCO FED COM 124H |
| I | DONNIE BRASCO FED COM 134H |
| J | DONNIE BRASCO FED COM 174H |
| K | DONNIE BRASCO FED COM 213H |
| L | DONNIE BRASCO FED COM 214H |

LEGEND
- SURVEY LINES
- PROPOSED SURFACE SITE
- PROPOSED ACCESS ROAD
- PROPOSED FLOWLINE
- EXISTING PIPELINE
- EDGE OF ROAD
- PROPOSED SURFACE HOLE
- INTERIM RECLAMATION

200' 0' 200'

PERMIAN RESOURCES

MARK J. MURRAY
NEW MEXICO
12177
REGISTERED PROFESSIONAL SURVEYOR

Date: 11/19/2025

NOTES:
1.) BEARINGS AND COORDINATES ARE GRID AS DERIVED FROM GPS OBSERVATION AND ARE BASED ON THE STATE PLANE COORDINATES FOR THE NEW MEXICO EAST ZONE 3001-NAD83.
2.) CERTIFICATION IS MADE ONLY TO THE LOCATION OF THIS EASEMENT. IN RELATION TO THE EVIDENCE DURING A FIELD SURVEY, MADE ON THE GROUND, UNDER MY SUPERVISION, AND USING DOCUMENTATION PROVIDED BY THE CLIENT. ONLY UTILITIES/EASEMENTS THAT WERE VISIBLE ON THE DATE OF THIS SURVEY, WITHIN/ADJOINING THIS EASEMENT, HAVE BEEN LOCATED AS SHOWN HEREON OF WHICH I HAVE KNOWLEDGE. THIS CERTIFICATION IS LIMITED TO THOSE PERSONS OR ENTITIES KNOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE, AND MADE FOR THIS TRANSACTION ONLY.

DWG: DONNIE BRASCO_EAST_WP_IR

DRAWING PATH: P:\Clients - Projects\Permian Resources\25-012876_Donnie Brasco\Drafting\INTERIM RECLAMATION

| | | | |
|---|---|---|---|
| Drawn: VG | Date: 11/19/2025 | Job: 25-012876 | Scale: 1" = 200' |
| Checked: MJM | Date: 11/19/2025 | REVISION NO. 1 | PAGE 1 OF 1 |

COOSA CONSULTING
PO BOX 1583, MIDLAND, TEXAS 79701
FIRM NO. 10194822

PERMIAN RESOURCES

# NEW MEXICO

**(SP) EDDY**
**DONNIE BRASCO**
**DONNIE BRASCO FED COM 173H**

**OWB**

**Plan: PWP0**

# Standard Planning Report - Geographic

**26 November, 2025**

| | | | |
|---|---|---|---|
| **Database:** | Compass_17 | **Local Co-ordinate Reference:** | Well DONNIE BRASCO FED COM 173H |
| **Company:** | NEW MEXICO | **TVD Reference:** | KB @ 3335.0usft |
| **Project:** | (SP) EDDY | **MD Reference:** | KB @ 3335.0usft |
| **Site:** | DONNIE BRASCO | **North Reference:** | Grid |
| **Well:** | DONNIE BRASCO FED COM 173H | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | OWB | | |
| **Design:** | PWP0 | | |

**Project** (SP) EDDY

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

**Site** DONNIE BRASCO

| | | | | | |
|---|---|---|---|---|---|
| **Site Position:** | | **Northing:** | 485,137.58 usft | **Latitude:** | 32° 20' 1.344 N |
| **From:** | Map | **Easting:** | 555,501.06 usft | **Longitude:** | 104° 17' 14.913 W |
| **Position Uncertainty:** | 0.0 usft | **Slot Radius:** | 13-3/16 " | | |

**Well** DONNIE BRASCO FED COM 173H

| | | | | | | |
|---|---|---|---|---|---|---|
| **Well Position** | **+N/-S** | 0.0 usft | **Northing:** | 484,060.12 usft | **Latitude:** | 32° 19' 50.680 N |
| | **+E/-W** | 0.0 usft | **Easting:** | 555,844.34 usft | **Longitude:** | 104° 17' 10.917 W |
| **Position Uncertainty** | | 0.0 usft | **Wellhead Elevation:** | usft | **Ground Level:** | 3,305.0 usft |
| **Grid Convergence:** | | 0.03 ° | | | | |

**Wellbore** OWB

| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
|---|---|---|---|---|---|
| | IGRF200510 | 12/31/2009 | 8.08 | 60.21 | 48,777.48126015 |

**Design** PWP0

**Audit Notes:**

| | | | | | |
|---|---|---|---|---|---|
| **Version:** | | **Phase:** | PROTOTYPE | **Tie On Depth:** | 0.0 |

| Vertical Section: | Depth From (TVD) (usft) | +N/-S (usft) | +E/-W (usft) | Direction (°) |
|---|---|---|---|---|
| | 0.0 | 0.0 | 0.0 | 87.88 |

**Plan Survey Tool Program** **Date** 11/26/2025

| | Depth From (usft) | Depth To (usft) | Survey (Wellbore) | Tool Name | Remarks |
|---|---|---|---|---|---|
| 1 | 0.0 | 20,686.5 | PWP0 (OWB) | MWD<br>OWSG_Rev2_ MWD - Standa | |

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| | | | |
|---|---|---|---|
| **Database:** | Compass_17 | **Local Co-ordinate Reference:** | Well DONNIE BRASCO FED COM 173H |
| **Company:** | NEW MEXICO | **TVD Reference:** | KB @ 3335.0usft |
| **Project:** | (SP) EDDY | **MD Reference:** | KB @ 3335.0usft |
| **Site:** | DONNIE BRASCO | **North Reference:** | Grid |
| **Well:** | DONNIE BRASCO FED COM 173H | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | OWB | | |
| **Design:** | PWP0 | | |

**Plan Sections**

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) | TFO (°) | Target |
|---|---|---|---|---|---|---|---|---|---|---|
| 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1,000.0 | 0.00 | 0.00 | 1,000.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1,443.1 | 8.86 | 297.09 | 1,441.3 | 15.6 | -30.4 | 2.00 | 2.00 | 0.00 | 297.09 | |
| 6,834.8 | 8.86 | 297.09 | 6,768.7 | 393.8 | -770.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 7,277.9 | 0.00 | 0.00 | 7,210.0 | 409.4 | -800.4 | 2.00 | -2.00 | 0.00 | 180.00 | |
| 7,345.4 | 0.00 | 0.00 | 7,277.5 | 409.4 | -800.4 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 8,095.4 | 90.00 | 89.59 | 7,755.0 | 412.8 | -323.0 | 12.00 | 12.00 | 11.94 | 89.59 | |
| 12,777.9 | 90.00 | 89.59 | 7,755.0 | 446.6 | 4,359.4 | 0.00 | 0.00 | 0.00 | 0.00 | PP2 DB FC173H |
| 12,788.0 | 90.00 | 89.79 | 7,755.0 | 446.7 | 4,369.6 | 2.00 | 0.00 | 2.00 | 89.88 | |
| 14,114.4 | 90.00 | 89.79 | 7,755.0 | 451.5 | 5,695.9 | 0.00 | 0.00 | 0.00 | 0.00 | PP3 DB FC173H |
| 14,128.3 | 90.00 | 90.07 | 7,755.0 | 451.6 | 5,709.8 | 2.00 | 0.00 | 2.00 | 90.00 | |
| 19,453.0 | 90.00 | 90.07 | 7,755.0 | 445.2 | 11,034.5 | 0.00 | 0.00 | 0.00 | 0.00 | PP4 DB FC173H |
| 19,475.9 | 90.00 | 89.61 | 7,755.0 | 445.3 | 11,057.5 | 2.00 | 0.00 | -2.00 | -90.00 | |
| 20,686.5 | 90.00 | 89.61 | 7,755.0 | 453.5 | 12,268.0 | 0.00 | 0.00 | 0.00 | 0.00 | LTP/BHL DB FC173H |

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| | | | |
|---|---|---|---|
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| **Project:** | (SP) EDDY | **MD Reference:** | KB @ 3335.0usft |
| **Site:** | DONNIE BRASCO | **North Reference:** | Grid |
| **Well:** | DONNIE BRASCO FED COM 173H | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | OWB | | |
| **Design:** | PWP0 | | |

**Planned Survey**

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Map Northing (usft) | Map Easting (usft) | Latitude | Longitude |
|---|---|---|---|---|---|---|---|---|---|
| 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 484,060.12 | 555,844.34 | 32° 19' 50.680 N | 104° 17' 10.917 W |
| 100.0 | 0.00 | 0.00 | 100.0 | 0.0 | 0.0 | 484,060.12 | 555,844.34 | 32° 19' 50.680 N | 104° 17' 10.917 W |
| 200.0 | 0.00 | 0.00 | 200.0 | 0.0 | 0.0 | 484,060.12 | 555,844.34 | 32° 19' 50.680 N | 104° 17' 10.917 W |
| 300.0 | 0.00 | 0.00 | 300.0 | 0.0 | 0.0 | 484,060.12 | 555,844.34 | 32° 19' 50.680 N | 104° 17' 10.917 W |
| 400.0 | 0.00 | 0.00 | 400.0 | 0.0 | 0.0 | 484,060.12 | 555,844.34 | 32° 19' 50.680 N | 104° 17' 10.917 W |
| 500.0 | 0.00 | 0.00 | 500.0 | 0.0 | 0.0 | 484,060.12 | 555,844.34 | 32° 19' 50.680 N | 104° 17' 10.917 W |
| 600.0 | 0.00 | 0.00 | 600.0 | 0.0 | 0.0 | 484,060.12 | 555,844.34 | 32° 19' 50.680 N | 104° 17' 10.917 W |
| 700.0 | 0.00 | 0.00 | 700.0 | 0.0 | 0.0 | 484,060.12 | 555,844.34 | 32° 19' 50.680 N | 104° 17' 10.917 W |
| 800.0 | 0.00 | 0.00 | 800.0 | 0.0 | 0.0 | 484,060.12 | 555,844.34 | 32° 19' 50.680 N | 104° 17' 10.917 W |
| 900.0 | 0.00 | 0.00 | 900.0 | 0.0 | 0.0 | 484,060.12 | 555,844.34 | 32° 19' 50.680 N | 104° 17' 10.917 W |
| 1,000.0 | 0.00 | 0.00 | 1,000.0 | 0.0 | 0.0 | 484,060.12 | 555,844.34 | 32° 19' 50.680 N | 104° 17' 10.917 W |
| **Start Build 2.00** | | | | | | | | | |
| 1,100.0 | 2.00 | 297.09 | 1,100.0 | 0.8 | -1.6 | 484,060.92 | 555,842.79 | 32° 19' 50.688 N | 104° 17' 10.935 W |
| 1,200.0 | 4.00 | 297.09 | 1,199.8 | 3.2 | -6.2 | 484,063.30 | 555,838.13 | 32° 19' 50.711 N | 104° 17' 10.990 W |
| 1,300.0 | 6.00 | 297.09 | 1,299.5 | 7.1 | -14.0 | 484,067.27 | 555,830.37 | 32° 19' 50.751 N | 104° 17' 11.080 W |
| 1,400.0 | 8.00 | 297.09 | 1,398.7 | 12.7 | -24.8 | 484,072.82 | 555,819.52 | 32° 19' 50.806 N | 104° 17' 11.206 W |
| 1,443.1 | 8.86 | 297.09 | 1,441.3 | 15.6 | -30.4 | 484,075.69 | 555,813.89 | 32° 19' 50.834 N | 104° 17' 11.272 W |
| **Start 5391.7 hold at 1443.1 MD** | | | | | | | | | |
| 1,500.0 | 8.86 | 297.09 | 1,497.6 | 19.6 | -38.3 | 484,079.69 | 555,806.09 | 32° 19' 50.874 N | 104° 17' 11.363 W |
| 1,600.0 | 8.86 | 297.09 | 1,596.4 | 26.6 | -52.0 | 484,086.70 | 555,792.37 | 32° 19' 50.943 N | 104° 17' 11.523 W |
| 1,700.0 | 8.86 | 297.09 | 1,695.2 | 33.6 | -65.7 | 484,093.72 | 555,778.66 | 32° 19' 51.013 N | 104° 17' 11.683 W |
| 1,800.0 | 8.86 | 297.09 | 1,794.0 | 40.6 | -79.4 | 484,100.73 | 555,764.94 | 32° 19' 51.082 N | 104° 17' 11.842 W |
| 1,900.0 | 8.86 | 297.09 | 1,892.8 | 47.6 | -93.1 | 484,107.75 | 555,751.23 | 32° 19' 51.152 N | 104° 17' 12.002 W |
| 2,000.0 | 8.86 | 297.09 | 1,991.6 | 54.6 | -106.8 | 484,114.76 | 555,737.51 | 32° 19' 51.221 N | 104° 17' 12.162 W |
| 2,100.0 | 8.86 | 297.09 | 2,090.4 | 61.7 | -120.5 | 484,121.78 | 555,723.80 | 32° 19' 51.291 N | 104° 17' 12.322 W |
| 2,200.0 | 8.86 | 297.09 | 2,189.2 | 68.7 | -134.3 | 484,128.79 | 555,710.08 | 32° 19' 51.360 N | 104° 17' 12.482 W |
| 2,300.0 | 8.86 | 297.09 | 2,288.0 | 75.7 | -148.0 | 484,135.81 | 555,696.37 | 32° 19' 51.430 N | 104° 17' 12.642 W |
| 2,400.0 | 8.86 | 297.09 | 2,386.8 | 82.7 | -161.7 | 484,142.82 | 555,682.65 | 32° 19' 51.499 N | 104° 17' 12.801 W |
| 2,500.0 | 8.86 | 297.09 | 2,485.6 | 89.7 | -175.4 | 484,149.84 | 555,668.93 | 32° 19' 51.569 N | 104° 17' 12.961 W |
| 2,600.0 | 8.86 | 297.09 | 2,584.4 | 96.7 | -189.1 | 484,156.85 | 555,655.22 | 32° 19' 51.638 N | 104° 17' 13.121 W |
| 2,700.0 | 8.86 | 297.09 | 2,683.2 | 103.7 | -202.8 | 484,163.87 | 555,641.50 | 32° 19' 51.707 N | 104° 17' 13.281 W |
| 2,800.0 | 8.86 | 297.09 | 2,782.0 | 110.8 | -216.6 | 484,170.88 | 555,627.79 | 32° 19' 51.777 N | 104° 17' 13.441 W |
| 2,900.0 | 8.86 | 297.09 | 2,880.8 | 117.8 | -230.3 | 484,177.90 | 555,614.07 | 32° 19' 51.846 N | 104° 17' 13.601 W |
| 3,000.0 | 8.86 | 297.09 | 2,979.6 | 124.8 | -244.0 | 484,184.91 | 555,600.36 | 32° 19' 51.916 N | 104° 17' 13.760 W |
| 3,100.0 | 8.86 | 297.09 | 3,078.5 | 131.8 | -257.7 | 484,191.93 | 555,586.64 | 32° 19' 51.985 N | 104° 17' 13.920 W |
| 3,200.0 | 8.86 | 297.09 | 3,177.3 | 138.8 | -271.4 | 484,198.94 | 555,572.92 | 32° 19' 52.055 N | 104° 17' 14.080 W |
| 3,300.0 | 8.86 | 297.09 | 3,276.1 | 145.8 | -285.1 | 484,205.96 | 555,559.21 | 32° 19' 52.124 N | 104° 17' 14.240 W |
| 3,400.0 | 8.86 | 297.09 | 3,374.9 | 152.9 | -298.8 | 484,212.97 | 555,545.49 | 32° 19' 52.194 N | 104° 17' 14.400 W |
| 3,500.0 | 8.86 | 297.09 | 3,473.7 | 159.9 | -312.6 | 484,219.99 | 555,531.78 | 32° 19' 52.263 N | 104° 17' 14.559 W |
| 3,600.0 | 8.86 | 297.09 | 3,572.5 | 166.9 | -326.3 | 484,227.00 | 555,518.06 | 32° 19' 52.333 N | 104° 17' 14.719 W |
| 3,700.0 | 8.86 | 297.09 | 3,671.3 | 173.9 | -340.0 | 484,234.02 | 555,504.35 | 32° 19' 52.402 N | 104° 17' 14.879 W |
| 3,800.0 | 8.86 | 297.09 | 3,770.1 | 180.9 | -353.7 | 484,241.03 | 555,490.63 | 32° 19' 52.472 N | 104° 17' 15.039 W |
| 3,900.0 | 8.86 | 297.09 | 3,868.9 | 187.9 | -367.4 | 484,248.05 | 555,476.92 | 32° 19' 52.541 N | 104° 17' 15.199 W |
| 4,000.0 | 8.86 | 297.09 | 3,967.7 | 194.9 | -381.1 | 484,255.06 | 555,463.20 | 32° 19' 52.611 N | 104° 17' 15.359 W |
| 4,100.0 | 8.86 | 297.09 | 4,066.5 | 202.0 | -394.9 | 484,262.08 | 555,449.48 | 32° 19' 52.680 N | 104° 17' 15.518 W |
| 4,200.0 | 8.86 | 297.09 | 4,165.3 | 209.0 | -408.6 | 484,269.09 | 555,435.77 | 32° 19' 52.750 N | 104° 17' 15.678 W |
| 4,300.0 | 8.86 | 297.09 | 4,264.1 | 216.0 | -422.3 | 484,276.11 | 555,422.05 | 32° 19' 52.819 N | 104° 17' 15.838 W |
| 4,400.0 | 8.86 | 297.09 | 4,362.9 | 223.0 | -436.0 | 484,283.12 | 555,408.34 | 32° 19' 52.889 N | 104° 17' 15.998 W |
| 4,500.0 | 8.86 | 297.09 | 4,461.7 | 230.0 | -449.7 | 484,290.14 | 555,394.62 | 32° 19' 52.958 N | 104° 17' 16.158 W |
| 4,600.0 | 8.86 | 297.09 | 4,560.5 | 237.0 | -463.4 | 484,297.15 | 555,380.91 | 32° 19' 53.028 N | 104° 17' 16.318 W |
| 4,700.0 | 8.86 | 297.09 | 4,659.4 | 244.0 | -477.2 | 484,304.17 | 555,367.19 | 32° 19' 53.097 N | 104° 17' 16.477 W |
| 4,800.0 | 8.86 | 297.09 | 4,758.2 | 251.1 | -490.9 | 484,311.18 | 555,353.47 | 32° 19' 53.167 N | 104° 17' 16.637 W |
| 4,900.0 | 8.86 | 297.09 | 4,857.0 | 258.1 | -504.6 | 484,318.20 | 555,339.76 | 32° 19' 53.236 N | 104° 17' 16.797 W |
| 5,000.0 | 8.86 | 297.09 | 4,955.8 | 265.1 | -518.3 | 484,325.21 | 555,326.04 | 32° 19' 53.305 N | 104° 17' 16.957 W |

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| | | | |
|---|---|---|---|
| **Database:** | Compass_17 | **Local Co-ordinate Reference:** | Well DONNIE BRASCO FED COM 173H |
| **Company:** | NEW MEXICO | **TVD Reference:** | KB @ 3335.0usft |
| **Project:** | (SP) EDDY | **MD Reference:** | KB @ 3335.0usft |
| **Site:** | DONNIE BRASCO | **North Reference:** | Grid |
| **Well:** | DONNIE BRASCO FED COM 173H | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | OWB | | |
| **Design:** | PWP0 | | |

**Planned Survey**

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Map Northing (usft) | Map Easting (usft) | Latitude | Longitude |
|---|---|---|---|---|---|---|---|---|---|
| 5,100.0 | 8.86 | 297.09 | 5,054.6 | 272.1 | -532.0 | 484,332.23 | 555,312.33 | 32° 19' 53.375 N | 104° 17' 17.117 W |
| 5,200.0 | 8.86 | 297.09 | 5,153.4 | 279.1 | -545.7 | 484,339.24 | 555,298.61 | 32° 19' 53.444 N | 104° 17' 17.277 W |
| 5,300.0 | 8.86 | 297.09 | 5,252.2 | 286.1 | -559.4 | 484,346.26 | 555,284.90 | 32° 19' 53.514 N | 104° 17' 17.436 W |
| 5,400.0 | 8.86 | 297.09 | 5,351.0 | 293.2 | -573.2 | 484,353.28 | 555,271.18 | 32° 19' 53.583 N | 104° 17' 17.596 W |
| 5,500.0 | 8.86 | 297.09 | 5,449.8 | 300.2 | -586.9 | 484,360.29 | 555,257.47 | 32° 19' 53.653 N | 104° 17' 17.756 W |
| 5,600.0 | 8.86 | 297.09 | 5,548.6 | 307.2 | -600.6 | 484,367.31 | 555,243.75 | 32° 19' 53.722 N | 104° 17' 17.916 W |
| 5,700.0 | 8.86 | 297.09 | 5,647.4 | 314.2 | -614.3 | 484,374.32 | 555,230.03 | 32° 19' 53.792 N | 104° 17' 18.076 W |
| 5,800.0 | 8.86 | 297.09 | 5,746.2 | 321.2 | -628.0 | 484,381.34 | 555,216.32 | 32° 19' 53.861 N | 104° 17' 18.236 W |
| 5,900.0 | 8.86 | 297.09 | 5,845.0 | 328.2 | -641.7 | 484,388.35 | 555,202.60 | 32° 19' 53.931 N | 104° 17' 18.395 W |
| 6,000.0 | 8.86 | 297.09 | 5,943.8 | 335.2 | -655.5 | 484,395.37 | 555,188.89 | 32° 19' 54.000 N | 104° 17' 18.555 W |
| 6,100.0 | 8.86 | 297.09 | 6,042.6 | 342.3 | -669.2 | 484,402.38 | 555,175.17 | 32° 19' 54.070 N | 104° 17' 18.715 W |
| 6,200.0 | 8.86 | 297.09 | 6,141.4 | 349.3 | -682.9 | 484,409.40 | 555,161.46 | 32° 19' 54.139 N | 104° 17' 18.875 W |
| 6,300.0 | 8.86 | 297.09 | 6,240.3 | 356.3 | -696.6 | 484,416.41 | 555,147.74 | 32° 19' 54.209 N | 104° 17' 19.035 W |
| 6,400.0 | 8.86 | 297.09 | 6,339.1 | 363.3 | -710.3 | 484,423.43 | 555,134.02 | 32° 19' 54.278 N | 104° 17' 19.194 W |
| 6,500.0 | 8.86 | 297.09 | 6,437.9 | 370.3 | -724.0 | 484,430.44 | 555,120.31 | 32° 19' 54.348 N | 104° 17' 19.354 W |
| 6,600.0 | 8.86 | 297.09 | 6,536.7 | 377.3 | -737.7 | 484,437.46 | 555,106.59 | 32° 19' 54.417 N | 104° 17' 19.514 W |
| 6,700.0 | 8.86 | 297.09 | 6,635.5 | 384.4 | -751.5 | 484,444.47 | 555,092.88 | 32° 19' 54.487 N | 104° 17' 19.674 W |
| 6,800.0 | 8.86 | 297.09 | 6,734.3 | 391.4 | -765.2 | 484,451.49 | 555,079.16 | 32° 19' 54.556 N | 104° 17' 19.834 W |
| 6,834.8 | 8.86 | 297.09 | 6,768.7 | 393.8 | -770.0 | 484,453.93 | 555,074.39 | 32° 19' 54.580 N | 104° 17' 19.889 W |
| **Start Drop -2.00** | | | | | | | | | |
| 6,900.0 | 7.56 | 297.09 | 6,833.2 | 398.0 | -778.2 | 484,458.17 | 555,066.10 | 32° 19' 54.622 N | 104° 17' 19.986 W |
| 7,000.0 | 5.56 | 297.09 | 6,932.5 | 403.2 | -788.4 | 484,463.37 | 555,055.93 | 32° 19' 54.674 N | 104° 17' 20.104 W |
| 7,100.0 | 3.56 | 297.09 | 7,032.2 | 406.9 | -795.5 | 484,466.99 | 555,048.86 | 32° 19' 54.710 N | 104° 17' 20.187 W |
| 7,200.0 | 1.56 | 297.09 | 7,132.1 | 408.9 | -799.5 | 484,469.02 | 555,044.89 | 32° 19' 54.730 N | 104° 17' 20.233 W |
| 7,277.9 | 0.00 | 0.00 | 7,210.0 | 409.4 | -800.4 | 484,469.50 | 555,043.94 | 32° 19' 54.735 N | 104° 17' 20.244 W |
| **Start 67.5 hold at 7277.9 MD** | | | | | | | | | |
| 7,300.0 | 0.00 | 0.00 | 7,232.1 | 409.4 | -800.4 | 484,469.50 | 555,043.94 | 32° 19' 54.735 N | 104° 17' 20.244 W |
| 7,345.4 | 0.00 | 0.00 | 7,277.5 | 409.4 | -800.4 | 484,469.50 | 555,043.94 | 32° 19' 54.735 N | 104° 17' 20.244 W |
| **Start DLS 12.00 TFO 89.59** | | | | | | | | | |
| 7,350.0 | 0.55 | 89.59 | 7,282.1 | 409.4 | -800.4 | 484,469.50 | 555,043.96 | 32° 19' 54.735 N | 104° 17' 20.244 W |
| 7,375.0 | 3.55 | 89.59 | 7,307.1 | 409.4 | -799.5 | 484,469.51 | 555,044.86 | 32° 19' 54.735 N | 104° 17' 20.234 W |
| 7,400.0 | 6.55 | 89.59 | 7,332.0 | 409.4 | -797.3 | 484,469.52 | 555,047.06 | 32° 19' 54.735 N | 104° 17' 20.208 W |
| 7,425.0 | 9.55 | 89.59 | 7,356.7 | 409.4 | -793.8 | 484,469.55 | 555,050.56 | 32° 19' 54.735 N | 104° 17' 20.167 W |
| 7,450.0 | 12.55 | 89.59 | 7,381.3 | 409.5 | -789.0 | 484,469.58 | 555,055.36 | 32° 19' 54.735 N | 104° 17' 20.111 W |
| 7,475.0 | 15.55 | 89.59 | 7,405.5 | 409.5 | -782.9 | 484,469.63 | 555,061.42 | 32° 19' 54.736 N | 104° 17' 20.040 W |
| 7,500.0 | 18.55 | 89.59 | 7,429.4 | 409.6 | -775.6 | 484,469.68 | 555,068.75 | 32° 19' 54.736 N | 104° 17' 19.955 W |
| 7,525.0 | 21.55 | 89.59 | 7,452.9 | 409.6 | -767.0 | 484,469.74 | 555,077.33 | 32° 19' 54.737 N | 104° 17' 19.855 W |
| 7,550.0 | 24.55 | 89.59 | 7,475.9 | 409.7 | -757.2 | 484,469.81 | 555,087.11 | 32° 19' 54.737 N | 104° 17' 19.741 W |
| 7,575.0 | 27.55 | 89.59 | 7,498.4 | 409.8 | -746.3 | 484,469.89 | 555,098.09 | 32° 19' 54.738 N | 104° 17' 19.613 W |
| 7,600.0 | 30.55 | 89.59 | 7,520.2 | 409.9 | -734.1 | 484,469.98 | 555,110.23 | 32° 19' 54.739 N | 104° 17' 19.472 W |
| 7,625.0 | 33.55 | 89.59 | 7,541.4 | 410.0 | -720.8 | 484,470.07 | 555,123.50 | 32° 19' 54.740 N | 104° 17' 19.317 W |
| 7,650.0 | 36.55 | 89.59 | 7,561.9 | 410.1 | -706.5 | 484,470.18 | 555,137.85 | 32° 19' 54.741 N | 104° 17' 19.150 W |
| 7,675.0 | 39.55 | 89.59 | 7,581.5 | 410.2 | -691.1 | 484,470.29 | 555,153.26 | 32° 19' 54.742 N | 104° 17' 18.970 W |
| **FTP DB FC173H** | | | | | | | | | |
| 7,700.0 | 42.55 | 89.59 | 7,600.4 | 410.3 | -674.7 | 484,470.41 | 555,169.68 | 32° 19' 54.743 N | 104° 17' 18.779 W |
| 7,725.0 | 45.55 | 89.59 | 7,618.4 | 410.4 | -657.3 | 484,470.53 | 555,187.06 | 32° 19' 54.744 N | 104° 17' 18.576 W |
| 7,750.0 | 48.55 | 89.59 | 7,635.4 | 410.5 | -639.0 | 484,470.67 | 555,205.35 | 32° 19' 54.745 N | 104° 17' 18.363 W |
| 7,775.0 | 51.55 | 89.59 | 7,651.4 | 410.7 | -619.8 | 484,470.80 | 555,224.52 | 32° 19' 54.747 N | 104° 17' 18.140 W |
| 7,800.0 | 54.55 | 89.59 | 7,666.5 | 410.8 | -599.8 | 484,470.95 | 555,244.49 | 32° 19' 54.748 N | 104° 17' 17.907 W |
| 7,825.0 | 57.55 | 89.59 | 7,680.4 | 411.0 | -579.1 | 484,471.10 | 555,265.23 | 32° 19' 54.749 N | 104° 17' 17.665 W |
| 7,850.0 | 60.55 | 89.59 | 7,693.3 | 411.1 | -557.7 | 484,471.25 | 555,286.67 | 32° 19' 54.751 N | 104° 17' 17.415 W |
| 7,875.0 | 63.55 | 89.59 | 7,705.0 | 411.3 | -535.6 | 484,471.41 | 555,308.75 | 32° 19' 54.752 N | 104° 17' 17.158 W |
| 7,900.0 | 66.55 | 89.59 | 7,715.5 | 411.5 | -512.9 | 484,471.58 | 555,331.41 | 32° 19' 54.754 N | 104° 17' 16.894 W |
| 7,925.0 | 69.55 | 89.59 | 7,724.9 | 411.6 | -489.7 | 484,471.74 | 555,354.60 | 32° 19' 54.755 N | 104° 17' 16.623 W |

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|---|---|---|---|
| **Database:** | Compass_17 | **Local Co-ordinate Reference:** | Well DONNIE BRASCO FED COM 173H |
| **Company:** | NEW MEXICO | **TVD Reference:** | KB @ 3335.0usft |
| **Project:** | (SP) EDDY | **MD Reference:** | KB @ 3335.0usft |
| **Site:** | DONNIE BRASCO | **North Reference:** | Grid |
| **Well:** | DONNIE BRASCO FED COM 173H | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | OWB | | |
| **Design:** | PWP0 | | |

**Planned Survey**

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Map Northing (usft) | Map Easting (usft) | Latitude | Longitude |
|---|---|---|---|---|---|---|---|---|---|
| 7,950.0 | 72.55 | 89.59 | 7,733.0 | 411.8 | -466.1 | 484,471.91 | 555,378.24 | 32° 19' 54.757 N | 104° 17' 16.348 W |
| 7,975.0 | 75.55 | 89.59 | 7,739.9 | 412.0 | -442.1 | 484,472.09 | 555,402.28 | 32° 19' 54.759 N | 104° 17' 16.068 W |
| 8,000.0 | 78.55 | 89.59 | 7,745.5 | 412.1 | -417.7 | 484,472.26 | 555,426.64 | 32° 19' 54.760 N | 104° 17' 15.784 W |
| 8,025.0 | 81.55 | 89.59 | 7,749.8 | 412.3 | -393.1 | 484,472.44 | 555,451.26 | 32° 19' 54.762 N | 104° 17' 15.497 W |
| 8,050.0 | 84.55 | 89.59 | 7,752.8 | 412.5 | -368.3 | 484,472.62 | 555,476.07 | 32° 19' 54.764 N | 104° 17' 15.208 W |
| 8,075.0 | 87.55 | 89.59 | 7,754.5 | 412.7 | -343.3 | 484,472.80 | 555,501.01 | 32° 19' 54.765 N | 104° 17' 14.917 W |
| 8,095.4 | 90.00 | 89.59 | 7,755.0 | 412.8 | -323.0 | 484,472.95 | 555,521.39 | 32° 19' 54.767 N | 104° 17' 14.679 W |
| **Start 4682.5 hold at 8095.4 MD** | | | | | | | | | |
| 8,100.0 | 90.00 | 89.59 | 7,755.0 | 412.9 | -318.3 | 484,472.98 | 555,526.00 | 32° 19' 54.767 N | 104° 17' 14.626 W |
| 8,200.0 | 90.00 | 89.59 | 7,755.0 | 413.6 | -218.3 | 484,473.70 | 555,626.00 | 32° 19' 54.774 N | 104° 17' 13.460 W |
| 8,300.0 | 90.00 | 89.59 | 7,755.0 | 414.3 | -118.3 | 484,474.42 | 555,726.00 | 32° 19' 54.780 N | 104° 17' 12.294 W |
| 8,400.0 | 90.00 | 89.59 | 7,755.0 | 415.0 | -18.3 | 484,475.15 | 555,825.99 | 32° 19' 54.787 N | 104° 17' 11.129 W |
| 8,500.0 | 90.00 | 89.59 | 7,755.0 | 415.7 | 81.6 | 484,475.87 | 555,925.99 | 32° 19' 54.794 N | 104° 17' 9.963 W |
| 8,600.0 | 90.00 | 89.59 | 7,755.0 | 416.5 | 181.6 | 484,476.59 | 556,025.99 | 32° 19' 54.800 N | 104° 17' 8.798 W |
| 8,700.0 | 90.00 | 89.59 | 7,755.0 | 417.2 | 281.6 | 484,477.31 | 556,125.98 | 32° 19' 54.807 N | 104° 17' 7.632 W |
| 8,800.0 | 90.00 | 89.59 | 7,755.0 | 417.9 | 381.6 | 484,478.03 | 556,225.98 | 32° 19' 54.814 N | 104° 17' 6.467 W |
| 8,900.0 | 90.00 | 89.59 | 7,755.0 | 418.6 | 481.6 | 484,478.75 | 556,325.98 | 32° 19' 54.821 N | 104° 17' 5.301 W |
| 9,000.0 | 90.00 | 89.59 | 7,755.0 | 419.4 | 581.6 | 484,479.48 | 556,425.98 | 32° 19' 54.827 N | 104° 17' 4.136 W |
| 9,100.0 | 90.00 | 89.59 | 7,755.0 | 420.1 | 681.6 | 484,480.20 | 556,525.97 | 32° 19' 54.834 N | 104° 17' 2.970 W |
| 9,200.0 | 90.00 | 89.59 | 7,755.0 | 420.8 | 781.6 | 484,480.92 | 556,625.97 | 32° 19' 54.841 N | 104° 17' 1.805 W |
| 9,300.0 | 90.00 | 89.59 | 7,755.0 | 421.5 | 881.6 | 484,481.64 | 556,725.97 | 32° 19' 54.847 N | 104° 17' 0.639 W |
| 9,400.0 | 90.00 | 89.59 | 7,755.0 | 422.2 | 981.6 | 484,482.36 | 556,825.97 | 32° 19' 54.854 N | 104° 16' 59.474 W |
| 9,500.0 | 90.00 | 89.59 | 7,755.0 | 423.0 | 1,081.6 | 484,483.08 | 556,925.96 | 32° 19' 54.861 N | 104° 16' 58.308 W |
| 9,600.0 | 90.00 | 89.59 | 7,755.0 | 423.7 | 1,181.6 | 484,483.81 | 557,025.96 | 32° 19' 54.867 N | 104° 16' 57.143 W |
| 9,700.0 | 90.00 | 89.59 | 7,755.0 | 424.4 | 1,281.6 | 484,484.53 | 557,125.96 | 32° 19' 54.874 N | 104° 16' 55.977 W |
| 9,800.0 | 90.00 | 89.59 | 7,755.0 | 425.1 | 1,381.6 | 484,485.25 | 557,225.96 | 32° 19' 54.881 N | 104° 16' 54.812 W |
| 9,900.0 | 90.00 | 89.59 | 7,755.0 | 425.9 | 1,481.6 | 484,485.97 | 557,325.95 | 32° 19' 54.887 N | 104° 16' 53.646 W |
| 10,000.0 | 90.00 | 89.59 | 7,755.0 | 426.6 | 1,581.6 | 484,486.69 | 557,425.95 | 32° 19' 54.894 N | 104° 16' 52.481 W |
| 10,100.0 | 90.00 | 89.59 | 7,755.0 | 427.3 | 1,681.6 | 484,487.41 | 557,525.95 | 32° 19' 54.901 N | 104° 16' 51.315 W |
| 10,200.0 | 90.00 | 89.59 | 7,755.0 | 428.0 | 1,781.6 | 484,488.14 | 557,625.95 | 32° 19' 54.907 N | 104° 16' 50.149 W |
| 10,300.0 | 90.00 | 89.59 | 7,755.0 | 428.7 | 1,881.6 | 484,488.86 | 557,725.94 | 32° 19' 54.914 N | 104° 16' 48.984 W |
| 10,400.0 | 90.00 | 89.59 | 7,755.0 | 429.5 | 1,981.6 | 484,489.58 | 557,825.94 | 32° 19' 54.921 N | 104° 16' 47.818 W |
| 10,500.0 | 90.00 | 89.59 | 7,755.0 | 430.2 | 2,081.6 | 484,490.30 | 557,925.94 | 32° 19' 54.927 N | 104° 16' 46.653 W |
| 10,600.0 | 90.00 | 89.59 | 7,755.0 | 430.9 | 2,181.6 | 484,491.02 | 558,025.94 | 32° 19' 54.934 N | 104° 16' 45.487 W |
| 10,700.0 | 90.00 | 89.59 | 7,755.0 | 431.6 | 2,281.6 | 484,491.74 | 558,125.93 | 32° 19' 54.941 N | 104° 16' 44.322 W |
| 10,800.0 | 90.00 | 89.59 | 7,755.0 | 432.3 | 2,381.6 | 484,492.47 | 558,225.93 | 32° 19' 54.947 N | 104° 16' 43.156 W |
| 10,900.0 | 90.00 | 89.59 | 7,755.0 | 433.1 | 2,481.6 | 484,493.19 | 558,325.93 | 32° 19' 54.954 N | 104° 16' 41.991 W |
| 11,000.0 | 90.00 | 89.59 | 7,755.0 | 433.8 | 2,581.6 | 484,493.91 | 558,425.93 | 32° 19' 54.960 N | 104° 16' 40.825 W |
| 11,100.0 | 90.00 | 89.59 | 7,755.0 | 434.5 | 2,681.6 | 484,494.63 | 558,525.92 | 32° 19' 54.967 N | 104° 16' 39.660 W |
| 11,200.0 | 90.00 | 89.59 | 7,755.0 | 435.2 | 2,781.6 | 484,495.35 | 558,625.92 | 32° 19' 54.974 N | 104° 16' 38.494 W |
| 11,300.0 | 90.00 | 89.59 | 7,755.0 | 436.0 | 2,881.6 | 484,496.07 | 558,725.92 | 32° 19' 54.980 N | 104° 16' 37.329 W |
| 11,400.0 | 90.00 | 89.59 | 7,755.0 | 436.7 | 2,981.6 | 484,496.80 | 558,825.91 | 32° 19' 54.987 N | 104° 16' 36.163 W |
| 11,500.0 | 90.00 | 89.59 | 7,755.0 | 437.4 | 3,081.6 | 484,497.52 | 558,925.91 | 32° 19' 54.994 N | 104° 16' 34.998 W |
| 11,600.0 | 90.00 | 89.59 | 7,755.0 | 438.1 | 3,181.6 | 484,498.24 | 559,025.91 | 32° 19' 55.000 N | 104° 16' 33.832 W |
| 11,700.0 | 90.00 | 89.59 | 7,755.0 | 438.8 | 3,281.6 | 484,498.96 | 559,125.91 | 32° 19' 55.007 N | 104° 16' 32.667 W |
| 11,800.0 | 90.00 | 89.59 | 7,755.0 | 439.6 | 3,381.6 | 484,499.68 | 559,225.90 | 32° 19' 55.013 N | 104° 16' 31.501 W |
| 11,900.0 | 90.00 | 89.59 | 7,755.0 | 440.3 | 3,481.6 | 484,500.41 | 559,325.90 | 32° 19' 55.020 N | 104° 16' 30.336 W |
| 12,000.0 | 90.00 | 89.59 | 7,755.0 | 441.0 | 3,581.6 | 484,501.13 | 559,425.90 | 32° 19' 55.027 N | 104° 16' 29.170 W |
| 12,100.0 | 90.00 | 89.59 | 7,755.0 | 441.7 | 3,681.6 | 484,501.85 | 559,525.90 | 32° 19' 55.033 N | 104° 16' 28.004 W |
| 12,200.0 | 90.00 | 89.59 | 7,755.0 | 442.4 | 3,781.6 | 484,502.57 | 559,625.89 | 32° 19' 55.040 N | 104° 16' 26.839 W |
| 12,300.0 | 90.00 | 89.59 | 7,755.0 | 443.2 | 3,881.5 | 484,503.29 | 559,725.89 | 32° 19' 55.046 N | 104° 16' 25.673 W |
| 12,400.0 | 90.00 | 89.59 | 7,755.0 | 443.9 | 3,981.5 | 484,504.01 | 559,825.89 | 32° 19' 55.053 N | 104° 16' 24.508 W |
| 12,500.0 | 90.00 | 89.59 | 7,755.0 | 444.6 | 4,081.5 | 484,504.74 | 559,925.89 | 32° 19' 55.060 N | 104° 16' 23.342 W |
| 12,600.0 | 90.00 | 89.59 | 7,755.0 | 445.3 | 4,181.5 | 484,505.46 | 560,025.88 | 32° 19' 55.066 N | 104° 16' 22.177 W |

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|---|---|---|---|
| **Database:** | Compass_17 | **Local Co-ordinate Reference:** | Well DONNIE BRASCO FED COM 173H |
| **Company:** | NEW MEXICO | **TVD Reference:** | KB @ 3335.0usft |
| **Project:** | (SP) EDDY | **MD Reference:** | KB @ 3335.0usft |
| **Site:** | DONNIE BRASCO | **North Reference:** | Grid |
| **Well:** | DONNIE BRASCO FED COM 173H | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | OWB | | |
| **Design:** | PWP0 | | |

**Planned Survey**

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Map Northing (usft) | Map Easting (usft) | Latitude | Longitude |
|---|---|---|---|---|---|---|---|---|---|
| 12,700.0 | 90.00 | 89.59 | 7,755.0 | 446.1 | 4,281.5 | 484,506.18 | 560,125.88 | 32° 19' 55.073 N | 104° 16' 21.011 W |
| 12,777.9 | 90.00 | 89.59 | 7,755.0 | 446.6 | 4,359.4 | 484,506.74 | 560,203.74 | 32° 19' 55.078 N | 104° 16' 20.104 W |
| **Start DLS 2.00 TFO 89.88 - PP2 DB FC173H** | | | | | | | | | |
| 12,788.0 | 90.00 | 89.79 | 7,755.0 | 446.7 | 4,369.6 | 484,506.80 | 560,213.91 | 32° 19' 55.078 N | 104° 16' 19.985 W |
| **Start 1326.3 hold at 12788.0 MD** | | | | | | | | | |
| 12,800.0 | 90.00 | 89.79 | 7,755.0 | 446.7 | 4,381.5 | 484,506.84 | 560,225.88 | 32° 19' 55.079 N | 104° 16' 19.846 W |
| 12,900.0 | 90.00 | 89.79 | 7,755.0 | 447.1 | 4,481.5 | 484,507.21 | 560,325.88 | 32° 19' 55.082 N | 104° 16' 18.680 W |
| 13,000.0 | 90.00 | 89.79 | 7,755.0 | 447.5 | 4,581.5 | 484,507.57 | 560,425.88 | 32° 19' 55.085 N | 104° 16' 17.515 W |
| 13,100.0 | 90.00 | 89.79 | 7,755.0 | 447.8 | 4,681.5 | 484,507.94 | 560,525.88 | 32° 19' 55.088 N | 104° 16' 16.349 W |
| 13,200.0 | 90.00 | 89.79 | 7,755.0 | 448.2 | 4,781.5 | 484,508.31 | 560,625.88 | 32° 19' 55.091 N | 104° 16' 15.184 W |
| 13,300.0 | 90.00 | 89.79 | 7,755.0 | 448.6 | 4,881.5 | 484,508.67 | 560,725.88 | 32° 19' 55.094 N | 104° 16' 14.018 W |
| 13,400.0 | 90.00 | 89.79 | 7,755.0 | 448.9 | 4,981.5 | 484,509.04 | 560,825.87 | 32° 19' 55.097 N | 104° 16' 12.852 W |
| 13,500.0 | 90.00 | 89.79 | 7,755.0 | 449.3 | 5,081.5 | 484,509.41 | 560,925.87 | 32° 19' 55.100 N | 104° 16' 11.687 W |
| 13,600.0 | 90.00 | 89.79 | 7,755.0 | 449.7 | 5,181.5 | 484,509.77 | 561,025.87 | 32° 19' 55.103 N | 104° 16' 10.521 W |
| 13,700.0 | 90.00 | 89.79 | 7,755.0 | 450.0 | 5,281.5 | 484,510.14 | 561,125.87 | 32° 19' 55.106 N | 104° 16' 9.356 W |
| 13,800.0 | 90.00 | 89.79 | 7,755.0 | 450.4 | 5,381.5 | 484,510.51 | 561,225.87 | 32° 19' 55.109 N | 104° 16' 8.190 W |
| 13,900.0 | 90.00 | 89.79 | 7,755.0 | 450.8 | 5,481.5 | 484,510.87 | 561,325.87 | 32° 19' 55.112 N | 104° 16' 7.025 W |
| 14,000.0 | 90.00 | 89.79 | 7,755.0 | 451.1 | 5,581.5 | 484,511.24 | 561,425.87 | 32° 19' 55.115 N | 104° 16' 5.859 W |
| 14,100.0 | 90.00 | 89.79 | 7,755.0 | 451.5 | 5,681.5 | 484,511.61 | 561,525.87 | 32° 19' 55.118 N | 104° 16' 4.694 W |
| 14,114.4 | 90.00 | 89.79 | 7,755.0 | 451.5 | 5,695.9 | 484,511.66 | 561,540.24 | 32° 19' 55.119 N | 104° 16' 4.526 W |
| **Start DLS 2.00 TFO 90.00 - PP3 DB FC173H** | | | | | | | | | |
| 14,128.3 | 90.00 | 90.07 | 7,755.0 | 451.6 | 5,709.8 | 484,511.68 | 561,554.15 | 32° 19' 55.119 N | 104° 16' 4.364 W |
| **Start 5324.7 hold at 14128.3 MD** | | | | | | | | | |
| 14,200.0 | 90.00 | 90.07 | 7,755.0 | 451.5 | 5,781.5 | 484,511.59 | 561,625.87 | 32° 19' 55.118 N | 104° 16' 3.528 W |
| 14,300.0 | 90.00 | 90.07 | 7,755.0 | 451.4 | 5,881.5 | 484,511.47 | 561,725.87 | 32° 19' 55.116 N | 104° 16' 2.363 W |
| 14,400.0 | 90.00 | 90.07 | 7,755.0 | 451.2 | 5,981.5 | 484,511.36 | 561,825.87 | 32° 19' 55.114 N | 104° 16' 1.197 W |
| 14,500.0 | 90.00 | 90.07 | 7,755.0 | 451.1 | 6,081.5 | 484,511.24 | 561,925.87 | 32° 19' 55.112 N | 104° 16' 0.031 W |
| 14,600.0 | 90.00 | 90.07 | 7,755.0 | 451.0 | 6,181.5 | 484,511.12 | 562,025.87 | 32° 19' 55.110 N | 104° 15' 58.866 W |
| 14,700.0 | 90.00 | 90.07 | 7,755.0 | 450.9 | 6,281.5 | 484,511.00 | 562,125.87 | 32° 19' 55.109 N | 104° 15' 57.700 W |
| 14,800.0 | 90.00 | 90.07 | 7,755.0 | 450.8 | 6,381.5 | 484,510.88 | 562,225.87 | 32° 19' 55.107 N | 104° 15' 56.535 W |
| 14,900.0 | 90.00 | 90.07 | 7,755.0 | 450.6 | 6,481.5 | 484,510.76 | 562,325.87 | 32° 19' 55.105 N | 104° 15' 55.369 W |
| 15,000.0 | 90.00 | 90.07 | 7,755.0 | 450.5 | 6,581.5 | 484,510.64 | 562,425.87 | 32° 19' 55.103 N | 104° 15' 54.204 W |
| 15,100.0 | 90.00 | 90.07 | 7,755.0 | 450.4 | 6,681.5 | 484,510.52 | 562,525.87 | 32° 19' 55.101 N | 104° 15' 53.038 W |
| 15,200.0 | 90.00 | 90.07 | 7,755.0 | 450.3 | 6,781.5 | 484,510.40 | 562,625.87 | 32° 19' 55.100 N | 104° 15' 51.873 W |
| 15,300.0 | 90.00 | 90.07 | 7,755.0 | 450.2 | 6,881.5 | 484,510.29 | 562,725.87 | 32° 19' 55.098 N | 104° 15' 50.707 W |
| 15,400.0 | 90.00 | 90.07 | 7,755.0 | 450.0 | 6,981.5 | 484,510.17 | 562,825.87 | 32° 19' 55.096 N | 104° 15' 49.541 W |
| 15,500.0 | 90.00 | 90.07 | 7,755.0 | 449.9 | 7,081.5 | 484,510.05 | 562,925.87 | 32° 19' 55.094 N | 104° 15' 48.376 W |
| 15,600.0 | 90.00 | 90.07 | 7,755.0 | 449.8 | 7,181.5 | 484,509.93 | 563,025.87 | 32° 19' 55.092 N | 104° 15' 47.210 W |
| 15,700.0 | 90.00 | 90.07 | 7,755.0 | 449.7 | 7,281.5 | 484,509.81 | 563,125.87 | 32° 19' 55.091 N | 104° 15' 46.045 W |
| 15,800.0 | 90.00 | 90.07 | 7,755.0 | 449.6 | 7,381.5 | 484,509.69 | 563,225.87 | 32° 19' 55.089 N | 104° 15' 44.879 W |
| 15,900.0 | 90.00 | 90.07 | 7,755.0 | 449.5 | 7,481.5 | 484,509.57 | 563,325.87 | 32° 19' 55.087 N | 104° 15' 43.714 W |
| 16,000.0 | 90.00 | 90.07 | 7,755.0 | 449.3 | 7,581.5 | 484,509.45 | 563,425.87 | 32° 19' 55.085 N | 104° 15' 42.548 W |
| 16,100.0 | 90.00 | 90.07 | 7,755.0 | 449.2 | 7,681.5 | 484,509.34 | 563,525.87 | 32° 19' 55.083 N | 104° 15' 41.383 W |
| 16,200.0 | 90.00 | 90.07 | 7,755.0 | 449.1 | 7,781.5 | 484,509.22 | 563,625.87 | 32° 19' 55.081 N | 104° 15' 40.217 W |
| 16,300.0 | 90.00 | 90.07 | 7,755.0 | 449.0 | 7,881.5 | 484,509.10 | 563,725.87 | 32° 19' 55.079 N | 104° 15' 39.052 W |
| 16,400.0 | 90.00 | 90.07 | 7,755.0 | 448.9 | 7,981.5 | 484,508.98 | 563,825.87 | 32° 19' 55.078 N | 104° 15' 37.886 W |
| 16,500.0 | 90.00 | 90.07 | 7,755.0 | 448.7 | 8,081.5 | 484,508.86 | 563,925.87 | 32° 19' 55.076 N | 104° 15' 36.720 W |
| 16,600.0 | 90.00 | 90.07 | 7,755.0 | 448.6 | 8,181.5 | 484,508.74 | 564,025.87 | 32° 19' 55.074 N | 104° 15' 35.555 W |
| 16,700.0 | 90.00 | 90.07 | 7,755.0 | 448.5 | 8,281.5 | 484,508.62 | 564,125.87 | 32° 19' 55.072 N | 104° 15' 34.389 W |
| 16,800.0 | 90.00 | 90.07 | 7,755.0 | 448.4 | 8,381.5 | 484,508.50 | 564,225.87 | 32° 19' 55.070 N | 104° 15' 33.224 W |
| 16,900.0 | 90.00 | 90.07 | 7,755.0 | 448.3 | 8,481.5 | 484,508.38 | 564,325.87 | 32° 19' 55.068 N | 104° 15' 32.058 W |
| 17,000.0 | 90.00 | 90.07 | 7,755.0 | 448.1 | 8,581.5 | 484,508.27 | 564,425.87 | 32° 19' 55.066 N | 104° 15' 30.893 W |
| 17,100.0 | 90.00 | 90.07 | 7,755.0 | 448.0 | 8,681.5 | 484,508.15 | 564,525.87 | 32° 19' 55.065 N | 104° 15' 29.727 W |
| 17,200.0 | 90.00 | 90.07 | 7,755.0 | 447.9 | 8,781.5 | 484,508.03 | 564,625.87 | 32° 19' 55.063 N | 104° 15' 28.562 W |

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| | | | |
|---|---|---|---|
| **Database:** | Compass_17 | **Local Co-ordinate Reference:** | Well DONNIE BRASCO FED COM 173H |
| **Company:** | NEW MEXICO | **TVD Reference:** | KB @ 3335.0usft |
| **Project:** | (SP) EDDY | **MD Reference:** | KB @ 3335.0usft |
| **Site:** | DONNIE BRASCO | **North Reference:** | Grid |
| **Well:** | DONNIE BRASCO FED COM 173H | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | OWB | | |
| **Design:** | PWP0 | | |

**Planned Survey**

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Map Northing (usft) | Map Easting (usft) | Latitude | Longitude |
|---|---|---|---|---|---|---|---|---|---|
| 17,300.0 | 90.00 | 90.07 | 7,755.0 | 447.8 | 8,881.5 | 484,507.91 | 564,725.87 | 32° 19' 55.061 N | 104° 15' 27.396 W |
| 17,400.0 | 90.00 | 90.07 | 7,755.0 | 447.7 | 8,981.5 | 484,507.79 | 564,825.87 | 32° 19' 55.059 N | 104° 15' 26.230 W |
| 17,500.0 | 90.00 | 90.07 | 7,755.0 | 447.6 | 9,081.5 | 484,507.67 | 564,925.87 | 32° 19' 55.057 N | 104° 15' 25.065 W |
| 17,600.0 | 90.00 | 90.07 | 7,755.0 | 447.4 | 9,181.5 | 484,507.55 | 565,025.87 | 32° 19' 55.055 N | 104° 15' 23.899 W |
| 17,700.0 | 90.00 | 90.07 | 7,755.0 | 447.3 | 9,281.5 | 484,507.43 | 565,125.87 | 32° 19' 55.053 N | 104° 15' 22.734 W |
| 17,800.0 | 90.00 | 90.07 | 7,755.0 | 447.2 | 9,381.5 | 484,507.32 | 565,225.87 | 32° 19' 55.051 N | 104° 15' 21.568 W |
| 17,900.0 | 90.00 | 90.07 | 7,755.0 | 447.1 | 9,481.5 | 484,507.20 | 565,325.87 | 32° 19' 55.050 N | 104° 15' 20.403 W |
| 18,000.0 | 90.00 | 90.07 | 7,755.0 | 447.0 | 9,581.5 | 484,507.08 | 565,425.87 | 32° 19' 55.048 N | 104° 15' 19.237 W |
| 18,100.0 | 90.00 | 90.07 | 7,755.0 | 446.8 | 9,681.5 | 484,506.96 | 565,525.87 | 32° 19' 55.046 N | 104° 15' 18.072 W |
| 18,200.0 | 90.00 | 90.07 | 7,755.0 | 446.7 | 9,781.5 | 484,506.84 | 565,625.87 | 32° 19' 55.044 N | 104° 15' 16.906 W |
| 18,300.0 | 90.00 | 90.07 | 7,755.0 | 446.6 | 9,881.5 | 484,506.72 | 565,725.87 | 32° 19' 55.042 N | 104° 15' 15.741 W |
| 18,400.0 | 90.00 | 90.07 | 7,755.0 | 446.5 | 9,981.5 | 484,506.60 | 565,825.87 | 32° 19' 55.040 N | 104° 15' 14.575 W |
| 18,500.0 | 90.00 | 90.07 | 7,755.0 | 446.4 | 10,081.5 | 484,506.48 | 565,925.87 | 32° 19' 55.038 N | 104° 15' 13.409 W |
| 18,600.0 | 90.00 | 90.07 | 7,755.0 | 446.2 | 10,181.5 | 484,506.36 | 566,025.87 | 32° 19' 55.036 N | 104° 15' 12.244 W |
| 18,700.0 | 90.00 | 90.07 | 7,755.0 | 446.1 | 10,281.5 | 484,506.25 | 566,125.87 | 32° 19' 55.034 N | 104° 15' 11.078 W |
| 18,800.0 | 90.00 | 90.07 | 7,755.0 | 446.0 | 10,381.5 | 484,506.13 | 566,225.87 | 32° 19' 55.032 N | 104° 15' 9.913 W |
| 18,900.0 | 90.00 | 90.07 | 7,755.0 | 445.9 | 10,481.5 | 484,506.01 | 566,325.87 | 32° 19' 55.030 N | 104° 15' 8.747 W |
| 19,000.0 | 90.00 | 90.07 | 7,755.0 | 445.8 | 10,581.5 | 484,505.89 | 566,425.87 | 32° 19' 55.029 N | 104° 15' 7.582 W |
| 19,100.0 | 90.00 | 90.07 | 7,755.0 | 445.6 | 10,681.5 | 484,505.77 | 566,525.87 | 32° 19' 55.027 N | 104° 15' 6.416 W |
| 19,200.0 | 90.00 | 90.07 | 7,755.0 | 445.5 | 10,781.5 | 484,505.65 | 566,625.87 | 32° 19' 55.025 N | 104° 15' 5.251 W |
| 19,300.0 | 90.00 | 90.07 | 7,755.0 | 445.4 | 10,881.5 | 484,505.53 | 566,725.87 | 32° 19' 55.023 N | 104° 15' 4.085 W |
| 19,400.0 | 90.00 | 90.07 | 7,755.0 | 445.3 | 10,981.5 | 484,505.41 | 566,825.87 | 32° 19' 55.021 N | 104° 15' 2.919 W |
| 19,453.0 | 90.00 | 90.07 | 7,755.0 | 445.2 | 11,034.5 | 484,505.35 | 566,878.85 | 32° 19' 55.020 N | 104° 15' 2.302 W |
| **Start DLS 2.00 TFO -90.00 - PP4 DB FC173H** | | | | | | | | | |
| 19,475.9 | 90.00 | 89.61 | 7,755.0 | 445.3 | 11,057.5 | 484,505.42 | 566,901.79 | 32° 19' 55.020 N | 104° 15' 2.034 W |
| **Start 1210.6 hold at 19475.9 MD** | | | | | | | | | |
| 19,500.0 | 90.00 | 89.61 | 7,755.0 | 445.5 | 11,081.5 | 484,505.58 | 566,925.87 | 32° 19' 55.022 N | 104° 15' 1.754 W |
| 19,600.0 | 90.00 | 89.61 | 7,755.0 | 446.1 | 11,181.5 | 484,506.26 | 567,025.86 | 32° 19' 55.028 N | 104° 15' 0.588 W |
| 19,700.0 | 90.00 | 89.61 | 7,755.0 | 446.8 | 11,281.5 | 484,506.94 | 567,125.86 | 32° 19' 55.034 N | 104° 14' 59.423 W |
| 19,800.0 | 90.00 | 89.61 | 7,755.0 | 447.5 | 11,381.5 | 484,507.63 | 567,225.86 | 32° 19' 55.040 N | 104° 14' 58.257 W |
| 19,900.0 | 90.00 | 89.61 | 7,755.0 | 448.2 | 11,481.5 | 484,508.31 | 567,325.86 | 32° 19' 55.046 N | 104° 14' 57.092 W |
| 20,000.0 | 90.00 | 89.61 | 7,755.0 | 448.9 | 11,581.5 | 484,508.99 | 567,425.85 | 32° 19' 55.052 N | 104° 14' 55.926 W |
| 20,100.0 | 90.00 | 89.61 | 7,755.0 | 449.6 | 11,681.5 | 484,509.67 | 567,525.85 | 32° 19' 55.058 N | 104° 14' 54.761 W |
| 20,200.0 | 90.00 | 89.61 | 7,755.0 | 450.2 | 11,781.5 | 484,510.35 | 567,625.85 | 32° 19' 55.064 N | 104° 14' 53.595 W |
| 20,300.0 | 90.00 | 89.61 | 7,755.0 | 450.9 | 11,881.5 | 484,511.04 | 567,725.85 | 32° 19' 55.069 N | 104° 14' 52.430 W |
| 20,400.0 | 90.00 | 89.61 | 7,755.0 | 451.6 | 11,981.5 | 484,511.72 | 567,825.84 | 32° 19' 55.075 N | 104° 14' 51.264 W |
| 20,500.0 | 90.00 | 89.61 | 7,755.0 | 452.3 | 12,081.5 | 484,512.40 | 567,925.84 | 32° 19' 55.081 N | 104° 14' 50.099 W |
| 20,600.0 | 90.00 | 89.61 | 7,755.0 | 453.0 | 12,181.5 | 484,513.08 | 568,025.84 | 32° 19' 55.087 N | 104° 14' 48.933 W |
| 20,686.5 | 90.00 | 89.61 | 7,755.0 | 453.5 | 12,268.0 | 484,513.67 | 568,112.32 | 32° 19' 55.093 N | 104° 14' 47.925 W |
| **TD at 20686.5 - LTP/BHL DB FC173H** | | | | | | | | | |

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| | | | |
|---|---|---|---|
| **Database:** | Compass_17 | **Local Co-ordinate Reference:** | Well DONNIE BRASCO FED COM 173H |
| **Company:** | NEW MEXICO | **TVD Reference:** | KB @ 3335.0usft |
| **Project:** | (SP) EDDY | **MD Reference:** | KB @ 3335.0usft |
| **Site:** | DONNIE BRASCO | **North Reference:** | Grid |
| **Well:** | DONNIE BRASCO FED COM 173H | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | OWB | | |
| **Design:** | PWP0 | | |

**Design Targets**

| Target Name<br>- hit/miss target<br>- Shape | Dip Angle (°) | Dip Dir. (°) | TVD (usft) | +N/-S (usft) | +E/-W (usft) | Northing (usft) | Easting (usft) | Latitude | Longitude |
|---|---|---|---|---|---|---|---|---|---|
| PP3 DB FC173H<br>- plan hits target center<br>- Point | 0.00 | 0.00 | 7,755.0 | 451.5 | 5,695.9 | 484,511.66 | 561,540.24 | 32° 19' 55.119 N | 104° 16' 4.526 W |
| PP2 DB FC173H<br>- plan hits target center<br>- Point | 0.00 | 0.00 | 7,755.0 | 446.6 | 4,359.4 | 484,506.74 | 560,203.74 | 32° 19' 55.078 N | 104° 16' 20.104 W |
| PP4 DB FC173H<br>- plan hits target center<br>- Point | 0.00 | 0.01 | 7,755.0 | 445.2 | 11,034.5 | 484,505.35 | 566,878.85 | 32° 19' 55.020 N | 104° 15' 2.302 W |
| FTP DB FC173H<br>- plan misses target center by 269.5usft at 7675.0usft MD (7581.5 TVD, 410.2 N, -691.1 E)<br>- Point | 0.00 | 0.00 | 7,755.0 | 409.4 | -897.4 | 484,469.50 | 554,946.95 | 32° 19' 54.735 N | 104° 17' 21.375 W |
| LTP/BHL DB FC173H<br>- plan hits target center<br>- Point | 0.00 | 0.01 | 7,755.0 | 453.5 | 12,268.0 | 484,513.67 | 568,112.32 | 32° 19' 55.093 N | 104° 14' 47.925 W |

**Formations**

| Measured Depth (usft) | Vertical Depth (usft) | Name | Lithology | Dip (°) | Dip Direction (°) |
|---|---|---|---|---|---|
| 10.0 | 10.0 | Rustler (TVD) | | | |
| 300.0 | 300.0 | Salado = T/Salt (TVD) | | | |
| 475.0 | 475.0 | Capitan (if applicable) (TVD) | | | |
| 1,816.2 | 1,810.0 | Bell CNYN | | | |
| 2,499.4 | 2,485.0 | Delaware Sands = CYCN (TVD) | | | |
| 3,604.6 | 3,577.0 | BYCN | | | |
| 5,097.4 | 5,052.0 | Bone Spring = BSGL (TVD) | | | |
| 6,063.9 | 6,007.0 | FBSG (TVD) | | | |
| 6,533.5 | 6,471.0 | SBSG (TVD) | | | |

**Plan Annotations**

| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates +N/-S (usft) | Local Coordinates +E/-W (usft) | Comment |
|---|---|---|---|---|
| 1,000.0 | 1,000.0 | 0.0 | 0.0 | Start Build 2.00 |
| 1,443.1 | 1,441.3 | 15.6 | -30.4 | Start 5391.7 hold at 1443.1 MD |
| 6,834.8 | 6,768.7 | 393.8 | -770.0 | Start Drop -2.00 |
| 7,277.9 | 7,210.0 | 409.4 | -800.4 | Start 67.5 hold at 7277.9 MD |
| 7,345.4 | 7,277.5 | 409.4 | -800.4 | Start DLS 12.00 TFO 89.59 |
| 8,095.4 | 7,755.0 | 412.8 | -323.0 | Start 4682.5 hold at 8095.4 MD |
| 12,777.9 | 7,755.0 | 446.6 | 4,359.4 | Start DLS 2.00 TFO 89.88 |
| 12,788.0 | 7,755.0 | 446.7 | 4,369.6 | Start 1326.3 hold at 12788.0 MD |
| 14,114.4 | 7,755.0 | 451.5 | 5,695.9 | Start DLS 2.00 TFO 90.00 |
| 14,128.3 | 7,755.0 | 451.6 | 5,709.8 | Start 5324.7 hold at 14128.3 MD |
| 19,453.0 | 7,755.0 | 445.2 | 11,034.5 | Start DLS 2.00 TFO -90.00 |
| 19,475.9 | 7,755.0 | 445.3 | 11,057.5 | Start 1210.6 hold at 19475.9 MD |
| 20,686.5 | 7,755.0 | 453.5 | 12,268.0 | TD at 20686.5 |

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PERMIAN RESOURCES

County: (SP) EDDY
Site: DONNIE BRASCO
Well: DONNIE BRASCO FED COM 173H
GE: 3305.0
Plan: PWP0

DESIGN TARGET DETAILS

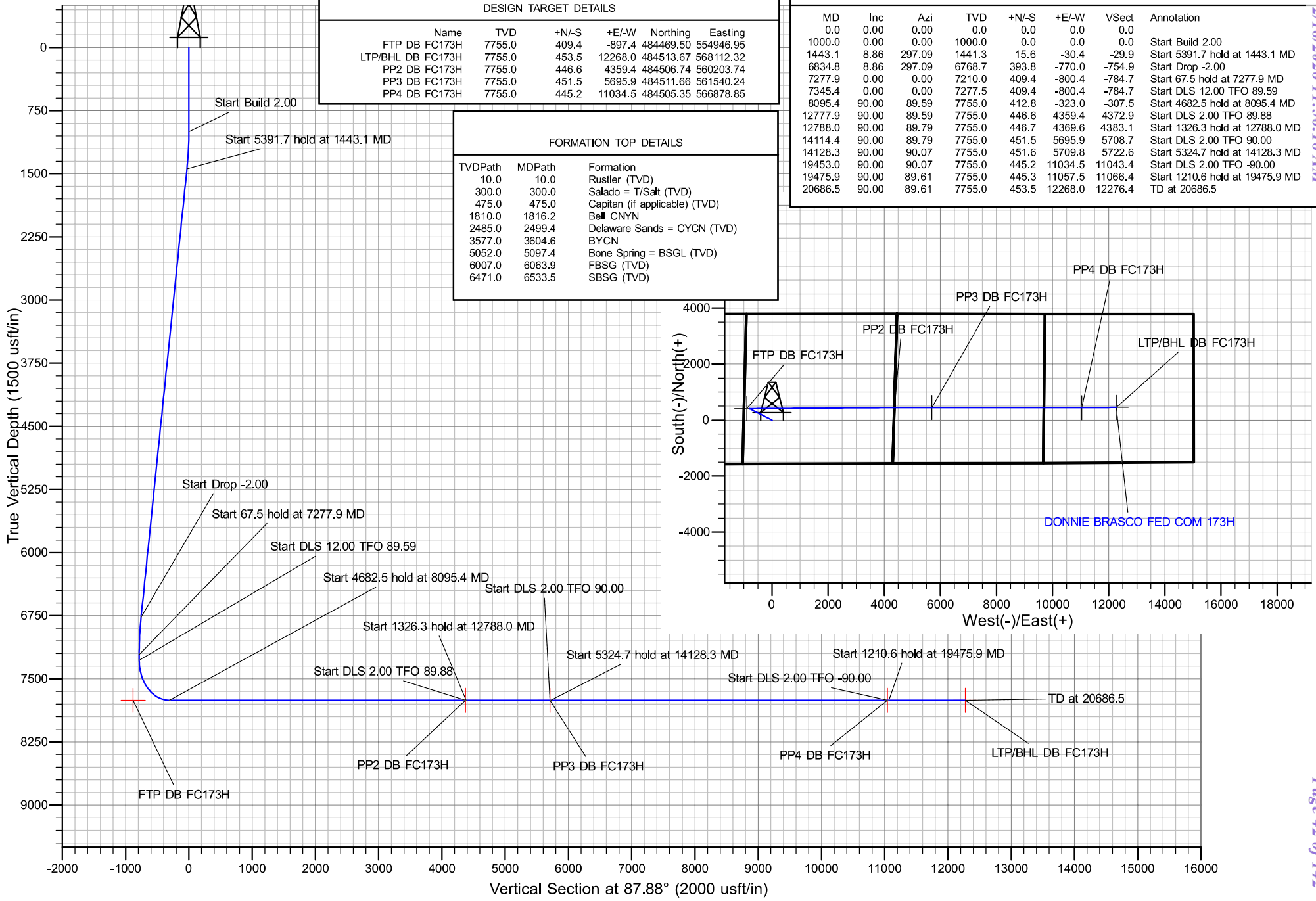
| Name | TVD | +N/-S | +E/-W | Northing | Easting |
|---|---|---|---|---|---|
| FTP DB FC173H | 7755.0 | 409.4 | -897.4 | 484469.50 | 554946.95 |
| LTP/BHL DB FC173H | 7755.0 | 453.5 | 12268.0 | 484513.67 | 568112.32 |
| PP2 DB FC173H | 7755.0 | 446.6 | 4359.4 | 484506.74 | 560203.74 |
| PP3 DB FC173H | 7755.0 | 451.5 | 5695.9 | 484511.66 | 561540.24 |
| PP4 DB FC173H | 7755.0 | 445.2 | 11034.5 | 484505.35 | 566878.85 |

FORMATION TOP DETAILS

| TVDPath | MDPath | Formation |
|---|---|---|
| 10.0 | 10.0 | Rustler (TVD) |
| 300.0 | 300.0 | Salado = T/Salt (TVD) |
| 475.0 | 475.0 | Capitan (if applicable) (TVD) |
| 1810.0 | 1816.2 | Bell CNYN |
| 2485.0 | 2499.4 | Delaware Sands = CYCN (TVD) |
| 3577.0 | 3604.6 | BYCN |
| 5052.0 | 5097.4 | Bone Spring = BSGL (TVD) |
| 6007.0 | 6063.9 | FBSG (TVD) |
| 6471.0 | 6533.5 | SBSG (TVD) |

SECTION DETAILS

| MD | Inc | Azi | TVD | +N/-S | +E/-W | VSect | Annotation |
|---|---|---|---|---|---|---|---|
| 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 1000.0 | 0.00 | 0.00 | 1000.0 | 0.0 | 0.0 | 0.0 | Start Build 2.00 |
| 1443.1 | 8.86 | 297.09 | 1441.3 | 15.6 | -30.4 | -29.9 | Start 5391.7 hold at 1443.1 MD |
| 6834.8 | 8.86 | 297.09 | 6768.7 | 393.8 | -770.0 | -754.9 | Start Drop -2.00 |
| 7277.9 | 0.00 | 0.00 | 7210.0 | 409.4 | -800.4 | -784.7 | Start 67.5 hold at 7277.9 MD |
| 7345.4 | 0.00 | 0.00 | 7277.5 | 409.4 | -800.4 | -784.7 | Start DLS 12.00 TFO 89.59 |
| 8095.4 | 90.00 | 89.59 | 7755.0 | 412.8 | -323.0 | -307.5 | Start 4682.5 hold at 8095.4 MD |
| 12777.9 | 90.00 | 89.59 | 7755.0 | 446.6 | 4359.4 | 4372.9 | Start DLS 2.00 TFO 89.88 |
| 12788.0 | 90.00 | 89.79 | 7755.0 | 446.7 | 4369.6 | 4383.1 | Start 1326.3 hold at 12788.0 MD |
| 14114.4 | 90.00 | 89.79 | 7755.0 | 451.5 | 5695.9 | 5708.7 | Start DLS 2.00 TFO 90.00 |
| 14128.3 | 90.00 | 90.07 | 7755.0 | 451.6 | 5709.8 | 5722.6 | Start 5324.7 hold at 14128.3 MD |
| 19453.0 | 90.00 | 90.07 | 7755.0 | 445.2 | 11034.5 | 11043.4 | Start DLS 2.00 TFO -90.00 |
| 19475.9 | 90.00 | 89.61 | 7755.0 | 445.3 | 11057.5 | 11066.4 | Start 1210.6 hold at 19475.9 MD |
| 20686.5 | 90.00 | 89.61 | 7755.0 | 453.5 | 12268.0 | 12276.4 | TD at 20686.5 |



PERMIAN RESOURCES

# NEW MEXICO

**(SP) EDDY**
**DONNIE BRASCO**
**DONNIE BRASCO FED COM 173H**

**OWB**
**PWP0**

# Anticollision Report

**26 November, 2025**

| | | | |
|---|---|---|---|
| **Company:** | NEW MEXICO | **Local Co-ordinate Reference:** | Well DONNIE BRASCO FED COM 173H |
| **Project:** | (SP) EDDY | **TVD Reference:** | KB @ 3335.0usft |
| **Reference Site:** | DONNIE BRASCO | **MD Reference:** | KB @ 3335.0usft |
| **Site Error:** | 0.0 usft | **North Reference:** | Grid |
| **Reference Well:** | DONNIE BRASCO FED COM 173H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.0 usft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | OWB | **Database:** | Compass_17 |
| **Reference Design:** | PWP0 | **Offset TVD Reference:** | Offset Datum |

| | | | |
|---|---|---|---|
| **Reference** | PWP0 | | |
| **Filter type:** | NO GLOBAL FILTER: Using user defined selection & filtering criteria | | |
| **Interpolation Method:** | Stations | **Error Model:** | ISCWSA |
| **Depth Range:** | Unlimited | **Scan Method:** | Closest Approach 3D |
| **Results Limited by:** | Maximum centre distance of 1,000.0usft | **Error Surface:** | Pedal Curve |
| **Warning Levels Evaluated at:** | 2.00 **Sigma** | **Casing Method:** | Not applied |

**Survey Tool Program** **Date** 11/26/2025

| From (usft) | To (usft) | Survey (Wellbore) | Tool Name | Description |
|---|---|---|---|---|
| 0.0 | 20,686.5 | PWP0 (OWB) | MWD | OWSG_Rev2_ MWD - Standard |

**Summary**

| Site Name<br>Offset Well - Wellbore - Design | Reference Measured Depth (usft) | Offset Measured Depth (usft) | Distance Between Centres (usft) | Distance Between Ellipses (usft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|
| DONNIE BRASCO | | | | | | |
| DONNIE BRASCO FED COM 111H - OWB - PWP0 | | | | | | Out of range |
| DONNIE BRASCO FED COM 112H - OWB - PWP0 | | | | | | Out of range |
| DONNIE BRASCO FED COM 113H - OWB - PWP0 | 1,000.0 | 1,000.0 | 220.0 | 213.0 | 31.635 | CC |
| DONNIE BRASCO FED COM 113H - OWB - PWP0 | 6,110.6 | 6,257.9 | 246.9 | 196.7 | 4.924 | ES, SF |
| DONNIE BRASCO FED COM 114H - OWB - PWP0 | 1,000.0 | 1,000.0 | 222.0 | 215.1 | 31.928 | CC, ES |
| DONNIE BRASCO FED COM 114H - OWB - PWP0 | 1,443.1 | 1,419.3 | 261.8 | 251.9 | 26.324 | SF |
| DONNIE BRASCO FED COM 121H - OWB - PWP0 | | | | | | Out of range |
| DONNIE BRASCO FED COM 122H - OWB - PWP0 | | | | | | Out of range |
| DONNIE BRASCO FED COM 123H - OWB - PWP0 | 1,871.5 | 1,881.6 | 57.2 | 43.6 | 4.210 | CC |
| DONNIE BRASCO FED COM 123H - OWB - PWP0 | 1,900.0 | 1,909.9 | 57.3 | 43.5 | 4.136 | ES |
| DONNIE BRASCO FED COM 123H - OWB - PWP0 | 2,000.0 | 2,009.1 | 59.5 | 44.7 | 4.025 | SF |
| DONNIE BRASCO FED COM 124H - OWB - PWP0 | 1,000.0 | 1,000.0 | 232.4 | 225.5 | 33.423 | CC, ES |
| DONNIE BRASCO FED COM 124H - OWB - PWP0 | 6,600.0 | 6,690.1 | 941.1 | 887.2 | 17.459 | SF |
| DONNIE BRASCO FED COM 131H - OWB - PWP0 | | | | | | Out of range |
| DONNIE BRASCO FED COM 132H - OWB - PWP0 | | | | | | Out of range |
| DONNIE BRASCO FED COM 133H - OWB - PWP0 | 1,000.0 | 1,000.0 | 30.0 | 23.0 | 4.314 | CC |
| DONNIE BRASCO FED COM 133H - OWB - PWP0 | 1,200.0 | 1,201.6 | 30.8 | 22.4 | 3.678 | ES |
| DONNIE BRASCO FED COM 133H - OWB - PWP0 | 20,686.5 | 21,585.9 | 844.2 | 538.1 | 2.758 | SF |
| DONNIE BRASCO FED COM 134H - OWB - PWP0 | 1,000.0 | 1,000.0 | 243.8 | 236.8 | 35.053 | CC, ES |
| DONNIE BRASCO FED COM 134H - OWB - PWP0 | 7,475.0 | 7,426.3 | 956.5 | 896.6 | 15.962 | SF |
| DONNIE BRASCO FED COM 171H - OWB - PWP0 | | | | | | Out of range |
| DONNIE BRASCO FED COM 172H - OWB - PWP0 | | | | | | Out of range |
| DONNIE BRASCO FED COM 174H - OWB - PWP0 | 1,000.0 | 1,000.0 | 258.1 | 251.2 | 37.116 | CC, ES |
| DONNIE BRASCO FED COM 174H - OWB - PWP0 | 5,300.0 | 5,219.3 | 987.1 | 944.5 | 23.199 | SF |
| DONNIE BRASCO FED COM 211H - OWB - PWP0 | | | | | | Out of range |
| DONNIE BRASCO FED COM 212H - OWB - PWP0 | | | | | | Out of range |
| DONNIE BRASCO FED COM 213H - OWB - PWP0 | 1,000.0 | 1,000.0 | 275.0 | 268.0 | 39.544 | CC |
| DONNIE BRASCO FED COM 213H - OWB - PWP0 | 1,443.1 | 1,477.7 | 275.9 | 265.7 | 27.136 | ES |
| DONNIE BRASCO FED COM 213H - OWB - PWP0 | 7,600.0 | 7,605.3 | 337.9 | 276.7 | 5.521 | SF |
| DONNIE BRASCO FED COM 214H - OWB - PWP0 | 1,000.0 | 1,000.0 | 294.0 | 287.0 | 42.273 | CC, ES |
| DONNIE BRASCO FED COM 214H - OWB - PWP0 | 4,700.0 | 4,611.9 | 980.7 | 943.6 | 26.468 | SF |
| DONNIE BRASCO FED COM 421H - OWB - PWP0 | | | | | | Out of range |
| DONNIE BRASCO FED COM 422H - OWB - PWP0 | | | | | | Out of range |
| DONNIE BRASCO FED COM 423H - OWB - PWP0 | 7,405.1 | 7,415.6 | 55.5 | -4.9 | 0.919 | Level 3, CC, ES, SF |
| DONNIE BRASCO FED COM 424H - OWB - PWP0 | 1,000.0 | 1,000.0 | 135.0 | 128.0 | 19.412 | CC |

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| | | | |
|---|---|---|---|
| **Company:** | NEW MEXICO | **Local Co-ordinate Reference:** | Well DONNIE BRASCO FED COM 173H |
| **Project:** | (SP) EDDY | **TVD Reference:** | KB @ 3335.0usft |
| **Reference Site:** | DONNIE BRASCO | **MD Reference:** | KB @ 3335.0usft |
| **Site Error:** | 0.0 usft | **North Reference:** | Grid |
| **Reference Well:** | DONNIE BRASCO FED COM 173H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.0 usft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | OWB | **Database:** | Compass_17 |
| **Reference Design:** | PWP0 | **Offset TVD Reference:** | Offset Datum |

**Summary**

| Site Name<br>Offset Well - Wellbore - Design | Reference Measured Depth (usft) | Offset Measured Depth (usft) | Distance Between Centres (usft) | Distance Between Ellipses (usft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|
| DONNIE BRASCO | | | | | | |
| DONNIE BRASCO FED COM 424H - OWB - PWP0 | 1,100.0 | 1,103.7 | 135.2 | 127.5 | 17.645 | ES |
| DONNIE BRASCO FED COM 424H - OWB - PWP0 | 1,800.0 | 1,808.9 | 173.6 | 160.9 | 13.608 | SF |

**Offset Design:** DONNIE BRASCO - DONNIE BRASCO FED COM 113H - OWB - PWP0

Offset Site Error: 0.0 usft

Survey Program: 0-MWD

Offset Well Error: 0.0 usft

Rule Assigned:

| 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 Centre +N/-S (usft) | Offset Wellbore Centre +E/-W (usft) | Distance Between Centres (usft) | Distance Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 180.00 | -220.0 | 0.0 | 220.0 | | | | |
| 100.0 | 100.0 | 100.0 | 100.0 | 0.3 | 0.3 | 180.00 | -220.0 | 0.0 | 220.0 | 219.5 | 0.50 | 438.369 | |
| 200.0 | 200.0 | 200.0 | 200.0 | 0.6 | 0.6 | 180.00 | -220.0 | 0.0 | 220.0 | 218.8 | 1.22 | 180.505 | |
| 300.0 | 300.0 | 300.0 | 300.0 | 1.0 | 1.0 | 180.00 | -220.0 | 0.0 | 220.0 | 218.1 | 1.94 | 113.651 | |
| 400.0 | 400.0 | 400.0 | 400.0 | 1.3 | 1.3 | 180.00 | -220.0 | 0.0 | 220.0 | 217.3 | 2.65 | 82.935 | |
| 500.0 | 500.0 | 500.0 | 500.0 | 1.7 | 1.7 | 180.00 | -220.0 | 0.0 | 220.0 | 216.6 | 3.37 | 65.289 | |
| 600.0 | 600.0 | 600.0 | 600.0 | 2.0 | 2.0 | 180.00 | -220.0 | 0.0 | 220.0 | 215.9 | 4.09 | 53.835 | |
| 700.0 | 700.0 | 700.0 | 700.0 | 2.4 | 2.4 | 180.00 | -220.0 | 0.0 | 220.0 | 215.2 | 4.80 | 45.800 | |
| 800.0 | 800.0 | 800.0 | 800.0 | 2.8 | 2.8 | 180.00 | -220.0 | 0.0 | 220.0 | 214.5 | 5.52 | 39.852 | |
| 900.0 | 900.0 | 900.0 | 900.0 | 3.1 | 3.1 | 180.00 | -220.0 | 0.0 | 220.0 | 213.8 | 6.24 | 35.271 | |
| 1,000.0 | 1,000.0 | 1,000.0 | 1,000.0 | 3.5 | 3.5 | 180.00 | -220.0 | 0.0 | 220.0 | 213.0 | 6.95 | 31.635 | CC |
| 1,100.0 | 1,100.0 | 1,102.6 | 1,102.6 | 3.8 | 3.8 | -117.05 | -219.4 | -1.7 | 220.2 | 212.5 | 7.67 | 28.709 | |
| 1,200.0 | 1,199.8 | 1,205.2 | 1,205.0 | 4.2 | 4.2 | -116.93 | -217.6 | -6.9 | 220.8 | 212.4 | 8.38 | 26.349 | |
| 1,300.0 | 1,299.5 | 1,307.7 | 1,307.2 | 4.5 | 4.6 | -116.73 | -214.6 | -15.6 | 221.9 | 212.8 | 9.10 | 24.377 | |
| 1,400.0 | 1,398.7 | 1,410.3 | 1,408.9 | 4.9 | 4.9 | -116.45 | -210.3 | -27.7 | 223.3 | 213.5 | 9.84 | 22.700 | |
| 1,443.1 | 1,441.3 | 1,454.5 | 1,452.6 | 5.1 | 5.1 | -116.31 | -208.2 | -34.0 | 224.0 | 213.9 | 10.16 | 22.048 | |
| 1,500.0 | 1,497.6 | 1,512.8 | 1,510.1 | 5.3 | 5.3 | -115.99 | -204.9 | -43.2 | 224.9 | 214.3 | 10.59 | 21.228 | |
| 1,600.0 | 1,596.4 | 1,615.1 | 1,610.4 | 5.7 | 5.7 | -114.75 | -198.4 | -62.1 | 225.6 | 214.2 | 11.38 | 19.825 | |
| 1,700.0 | 1,695.2 | 1,716.4 | 1,709.0 | 6.1 | 6.2 | -112.67 | -190.7 | -84.0 | 225.5 | 213.3 | 12.19 | 18.491 | |
| 1,758.3 | 1,752.8 | 1,774.5 | 1,765.4 | 6.3 | 6.4 | -111.35 | -186.2 | -97.1 | 225.4 | 212.7 | 12.68 | 17.777 | |
| 1,800.0 | 1,794.0 | 1,816.0 | 1,805.8 | 6.5 | 6.6 | -110.40 | -182.9 | -106.4 | 225.5 | 212.4 | 13.03 | 17.301 | |
| 1,900.0 | 1,892.8 | 1,915.6 | 1,902.5 | 6.9 | 7.0 | -108.13 | -175.1 | -128.9 | 225.8 | 211.9 | 13.89 | 16.260 | |
| 2,000.0 | 1,991.6 | 2,015.2 | 1,999.2 | 7.3 | 7.5 | -105.87 | -167.3 | -151.3 | 226.5 | 211.7 | 14.76 | 15.348 | |
| 2,100.0 | 2,090.4 | 2,114.8 | 2,095.9 | 7.7 | 8.0 | -103.63 | -159.5 | -173.7 | 227.5 | 211.9 | 15.64 | 14.549 | |
| 2,200.0 | 2,189.2 | 2,214.4 | 2,192.7 | 8.1 | 8.5 | -101.41 | -151.7 | -196.1 | 228.9 | 212.4 | 16.53 | 13.850 | |
| 2,300.0 | 2,288.0 | 2,314.0 | 2,289.4 | 8.5 | 8.9 | -99.23 | -143.9 | -218.5 | 230.6 | 213.2 | 17.42 | 13.236 | |
| 2,400.0 | 2,386.8 | 2,413.6 | 2,386.1 | 8.9 | 9.4 | -97.07 | -136.1 | -240.9 | 232.7 | 214.3 | 18.32 | 12.698 | |
| 2,500.0 | 2,485.6 | 2,513.2 | 2,482.8 | 9.3 | 9.9 | -94.96 | -128.3 | -263.3 | 235.1 | 215.8 | 19.22 | 12.227 | |
| 2,600.0 | 2,584.4 | 2,612.8 | 2,579.6 | 9.7 | 10.4 | -92.89 | -120.5 | -285.7 | 237.7 | 217.6 | 20.13 | 11.813 | |
| 2,700.0 | 2,683.2 | 2,712.4 | 2,676.3 | 10.2 | 10.9 | -90.87 | -112.6 | -308.1 | 240.7 | 219.7 | 21.03 | 11.449 | |
| 2,800.0 | 2,782.0 | 2,812.0 | 2,773.0 | 10.6 | 11.4 | -88.91 | -104.8 | -330.5 | 244.0 | 222.1 | 21.93 | 11.130 | |
| 2,900.0 | 2,880.8 | 2,911.6 | 2,869.8 | 11.0 | 11.9 | -86.99 | -97.0 | -352.9 | 247.6 | 224.8 | 22.82 | 10.851 | |
| 3,000.0 | 2,979.6 | 3,011.2 | 2,966.5 | 11.4 | 12.4 | -85.14 | -89.2 | -375.4 | 251.5 | 227.8 | 23.71 | 10.605 | |
| 3,100.0 | 3,078.5 | 3,110.8 | 3,063.2 | 11.9 | 12.9 | -83.34 | -81.4 | -397.8 | 255.6 | 231.0 | 24.60 | 10.390 | |
| 3,200.0 | 3,177.3 | 3,210.4 | 3,159.9 | 12.3 | 13.4 | -81.60 | -73.6 | -420.2 | 259.9 | 234.4 | 25.48 | 10.202 | |
| 3,300.0 | 3,276.1 | 3,310.0 | 3,256.7 | 12.7 | 13.9 | -79.91 | -65.8 | -442.6 | 264.5 | 238.1 | 26.35 | 10.037 | |
| 3,400.0 | 3,374.9 | 3,409.6 | 3,353.4 | 13.1 | 14.4 | -78.29 | -58.0 | -465.0 | 269.3 | 242.1 | 27.22 | 9.893 | |
| 3,500.0 | 3,473.7 | 3,509.2 | 3,450.1 | 13.6 | 14.9 | -76.72 | -50.2 | -487.4 | 274.3 | 246.2 | 28.08 | 9.767 | |
| 3,600.0 | 3,572.5 | 3,608.8 | 3,546.9 | 14.0 | 15.5 | -75.21 | -42.4 | -509.8 | 279.5 | 250.6 | 28.94 | 9.658 | |
| 3,700.0 | 3,671.3 | 3,708.4 | 3,643.6 | 14.4 | 16.0 | -73.76 | -34.6 | -532.2 | 284.9 | 255.1 | 29.79 | 9.563 | |
| 3,800.0 | 3,770.1 | 3,808.0 | 3,740.3 | 14.8 | 16.5 | -72.36 | -26.8 | -554.6 | 290.5 | 259.9 | 30.64 | 9.481 | |

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

| | | | |
|---|---|---|---|
| **Company:** | NEW MEXICO | **Local Co-ordinate Reference:** | Well DONNIE BRASCO FED COM 173H |
| **Project:** | (SP) EDDY | **TVD Reference:** | KB @ 3335.0usft |
| **Reference Site:** | DONNIE BRASCO | **MD Reference:** | KB @ 3335.0usft |
| **Site Error:** | 0.0 usft | **North Reference:** | Grid |
| **Reference Well:** | DONNIE BRASCO FED COM 173H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.0 usft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | OWB | **Database:** | Compass_17 |
| **Reference Design:** | PWP0 | **Offset TVD Reference:** | Offset Datum |

**Offset Design:** DONNIE BRASCO - DONNIE BRASCO FED COM 113H - OWB - PWP0

**Offset Site Error:** 0.0 usft

**Survey Program:** 0-MWD

**Offset Well Error:** 0.0 usft

**Rule Assigned:**

| 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 Centre +N/-S (usft) | Offset Wellbore Centre +E/-W (usft) | Distance Between Centres (usft) | Distance Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3,900.0 | 3,868.9 | 3,907.6 | 3,837.0 | 15.3 | 17.0 | -71.01 | -19.0 | -577.0 | 296.2 | 264.8 | 31.48 | 9.410 | |
| 4,000.0 | 3,967.7 | 4,007.2 | 3,933.8 | 15.7 | 17.5 | -69.72 | -11.2 | -599.4 | 302.1 | 269.8 | 32.31 | 9.350 | |
| 4,100.0 | 4,066.5 | 4,106.8 | 4,030.5 | 16.1 | 18.0 | -68.47 | -3.3 | -621.9 | 308.2 | 275.0 | 33.15 | 9.298 | |
| 4,200.0 | 4,165.3 | 4,206.3 | 4,127.2 | 16.5 | 18.5 | -67.28 | 4.5 | -644.3 | 314.4 | 280.4 | 33.97 | 9.254 | |
| 4,300.0 | 4,264.1 | 4,305.9 | 4,224.0 | 17.0 | 19.1 | -66.13 | 12.3 | -666.7 | 320.7 | 285.9 | 34.79 | 9.217 | |
| 4,400.0 | 4,362.9 | 4,405.5 | 4,320.7 | 17.4 | 19.6 | -65.02 | 20.1 | -689.1 | 327.1 | 291.5 | 35.61 | 9.186 | |
| 4,500.0 | 4,461.7 | 4,505.1 | 4,417.4 | 17.8 | 20.1 | -63.96 | 27.9 | -711.5 | 333.7 | 297.3 | 36.43 | 9.161 | |
| 4,600.0 | 4,560.5 | 4,604.7 | 4,514.1 | 18.3 | 20.6 | -62.94 | 35.7 | -733.9 | 340.4 | 303.1 | 37.24 | 9.140 | |
| 4,700.0 | 4,659.4 | 4,704.3 | 4,610.9 | 18.7 | 21.1 | -61.96 | 43.5 | -756.3 | 347.1 | 309.1 | 38.04 | 9.125 | |
| 4,800.0 | 4,758.2 | 4,803.9 | 4,707.6 | 19.1 | 21.7 | -61.02 | 51.3 | -778.7 | 354.0 | 315.2 | 38.85 | 9.112 | |
| 4,900.0 | 4,857.0 | 4,903.5 | 4,804.3 | 19.6 | 22.2 | -60.11 | 59.1 | -801.1 | 361.0 | 321.3 | 39.65 | 9.104 | |
| 5,000.0 | 4,955.8 | 5,003.1 | 4,901.1 | 20.0 | 22.7 | -59.23 | 66.9 | -823.5 | 368.0 | 327.6 | 40.45 | 9.098 | |
| 5,100.0 | 5,054.6 | 5,110.2 | 5,005.4 | 20.4 | 23.2 | -58.50 | 74.9 | -846.3 | 374.3 | 333.0 | 41.32 | 9.060 | |
| 5,200.0 | 5,153.4 | 5,219.2 | 5,112.4 | 20.8 | 23.7 | -58.25 | 81.6 | -865.8 | 378.3 | 336.1 | 42.20 | 8.964 | |
| 5,300.0 | 5,252.2 | 5,328.4 | 5,220.3 | 21.3 | 24.2 | -58.49 | 87.1 | -881.4 | 379.8 | 336.8 | 43.09 | 8.815 | |
| 5,400.0 | 5,351.0 | 5,437.3 | 5,328.6 | 21.7 | 24.6 | -59.21 | 91.1 | -893.1 | 379.0 | 335.0 | 43.97 | 8.619 | |
| 5,500.0 | 5,449.8 | 5,545.9 | 5,436.8 | 22.1 | 25.0 | -60.42 | 93.9 | -900.8 | 375.9 | 331.1 | 44.86 | 8.379 | |
| 5,600.0 | 5,548.6 | 5,653.6 | 5,544.4 | 22.6 | 25.4 | -62.16 | 95.2 | -904.7 | 370.7 | 325.0 | 45.76 | 8.102 | |
| 5,700.0 | 5,647.4 | 5,756.6 | 5,647.4 | 23.0 | 25.7 | -64.31 | 95.4 | -905.2 | 364.0 | 317.3 | 46.68 | 7.798 | |
| 5,800.0 | 5,746.2 | 5,960.9 | 5,846.9 | 23.4 | 26.0 | -73.05 | 95.6 | -868.6 | 344.8 | 299.1 | 45.78 | 7.532 | |
| 5,900.0 | 5,845.0 | 6,110.2 | 5,973.6 | 23.9 | 26.0 | -88.56 | 96.1 | -790.8 | 304.4 | 259.1 | 45.32 | 6.716 | |
| 6,000.0 | 5,943.8 | 6,198.5 | 6,035.1 | 24.3 | 26.0 | -103.30 | 96.5 | -727.6 | 265.6 | 217.7 | 47.83 | 5.552 | |
| 6,100.0 | 6,042.6 | 6,253.4 | 6,067.0 | 24.7 | 26.0 | -114.40 | 96.8 | -683.0 | 247.1 | 197.0 | 50.11 | 4.931 | |
| 6,110.6 | 6,053.1 | 6,257.9 | 6,069.4 | 24.8 | 26.0 | -115.36 | 96.8 | -679.2 | 246.9 | 196.7 | 50.14 | 4.924 ES, SF | |
| 6,200.0 | 6,141.4 | 6,289.8 | 6,085.3 | 25.2 | 26.0 | -122.20 | 97.0 | -651.5 | 260.4 | 212.1 | 48.23 | 5.399 | |
| 6,300.0 | 6,240.3 | 6,315.5 | 6,096.7 | 25.6 | 26.0 | -127.71 | 97.1 | -628.5 | 304.0 | 260.9 | 43.06 | 7.060 | |
| 6,400.0 | 6,339.1 | 6,334.6 | 6,104.4 | 26.0 | 26.0 | -131.71 | 97.2 | -611.1 | 368.4 | 330.7 | 37.73 | 9.763 | |
| 6,500.0 | 6,437.9 | 6,350.0 | 6,110.1 | 26.4 | 26.1 | -134.88 | 97.3 | -596.7 | 445.2 | 411.6 | 33.58 | 13.256 | |
| 6,600.0 | 6,536.7 | 6,360.7 | 6,113.7 | 26.9 | 26.1 | -137.02 | 97.4 | -586.7 | 529.2 | 498.6 | 30.58 | 17.304 | |
| 6,700.0 | 6,635.5 | 6,375.0 | 6,118.3 | 27.3 | 26.1 | -139.82 | 97.5 | -573.1 | 617.7 | 589.2 | 28.56 | 21.630 | |
| 6,800.0 | 6,734.3 | 6,375.0 | 6,118.3 | 27.7 | 26.1 | -139.82 | 97.5 | -573.1 | 709.0 | 682.0 | 26.97 | 26.284 | |
| 6,834.8 | 6,768.7 | 6,375.0 | 6,118.3 | 27.9 | 26.1 | -139.82 | 97.5 | -573.1 | 741.3 | 714.8 | 26.54 | 27.929 | |
| 6,900.0 | 6,833.2 | 6,384.4 | 6,121.1 | 28.2 | 26.1 | -143.63 | 97.5 | -564.1 | 802.0 | 776.1 | 25.96 | 30.900 | |
| 7,000.0 | 6,932.5 | 6,391.2 | 6,123.0 | 28.6 | 26.1 | -147.73 | 97.6 | -557.7 | 895.6 | 870.4 | 25.16 | 35.597 | |
| 7,100.0 | 7,032.2 | 6,400.0 | 6,125.3 | 28.9 | 26.1 | -151.72 | 97.6 | -549.1 | 989.4 | 964.8 | 24.57 | 40.267 | |



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|---|---|---|---|
| **Company:** | NEW MEXICO | **Local Co-ordinate Reference:** | Well DONNIE BRASCO FED COM 173H |
| **Project:** | (SP) EDDY | **TVD Reference:** | KB @ 3335.0usft |
| **Reference Site:** | DONNIE BRASCO | **MD Reference:** | KB @ 3335.0usft |
| **Site Error:** | 0.0 usft | **North Reference:** | Grid |
| **Reference Well:** | DONNIE BRASCO FED COM 173H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.0 usft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | OWB | **Database:** | Compass_17 |
| **Reference Design:** | PWP0 | **Offset TVD Reference:** | Offset Datum |

**Offset Design:** DONNIE BRASCO - DONNIE BRASCO FED COM 114H - OWB - PWP0

**Offset Site Error:** 0.0 usft

**Survey Program:** 0-MWD

**Rule Assigned:**

**Offset Well Error:** 0.0 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 Centre +N/-S (usft) | Offset Wellbore Centre +E/-W (usft) | Distance Between Centres (usft) | Distance Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 172.23 | -220.0 | 30.0 | 222.0 | | | | |
| 100.0 | 100.0 | 100.0 | 100.0 | 0.3 | 0.3 | 172.23 | -220.0 | 30.0 | 222.0 | 221.5 | 0.50 | 442.425 | |
| 200.0 | 200.0 | 200.0 | 200.0 | 0.6 | 0.6 | 172.23 | -220.0 | 30.0 | 222.0 | 220.8 | 1.22 | 182.175 | |
| 300.0 | 300.0 | 300.0 | 300.0 | 1.0 | 1.0 | 172.23 | -220.0 | 30.0 | 222.0 | 220.1 | 1.94 | 114.703 | |
| 400.0 | 400.0 | 400.0 | 400.0 | 1.3 | 1.3 | 172.23 | -220.0 | 30.0 | 222.0 | 219.4 | 2.65 | 83.702 | |
| 500.0 | 500.0 | 500.0 | 500.0 | 1.7 | 1.7 | 172.23 | -220.0 | 30.0 | 222.0 | 218.7 | 3.37 | 65.893 | |
| 600.0 | 600.0 | 600.0 | 600.0 | 2.0 | 2.0 | 172.23 | -220.0 | 30.0 | 222.0 | 217.9 | 4.09 | 54.333 | |
| 700.0 | 700.0 | 700.0 | 700.0 | 2.4 | 2.4 | 172.23 | -220.0 | 30.0 | 222.0 | 217.2 | 4.80 | 46.224 | |
| 800.0 | 800.0 | 800.0 | 800.0 | 2.8 | 2.8 | 172.23 | -220.0 | 30.0 | 222.0 | 216.5 | 5.52 | 40.221 | |
| 900.0 | 900.0 | 900.0 | 900.0 | 3.1 | 3.1 | 172.23 | -220.0 | 30.0 | 222.0 | 215.8 | 6.24 | 35.597 | |
| 1,000.0 | 1,000.0 | 1,000.0 | 1,000.0 | 3.5 | 3.5 | 172.23 | -220.0 | 30.0 | 222.0 | 215.1 | 6.95 | 31.928 | CC, ES |
| 1,100.0 | 1,100.0 | 1,095.3 | 1,095.3 | 3.8 | 3.8 | -124.85 | -221.2 | 28.9 | 224.1 | 216.4 | 7.64 | 29.348 | |
| 1,200.0 | 1,199.8 | 1,190.4 | 1,190.3 | 4.2 | 4.1 | -124.85 | -224.6 | 25.6 | 230.2 | 221.9 | 8.30 | 27.727 | |
| 1,300.0 | 1,299.5 | 1,285.1 | 1,284.6 | 4.5 | 4.4 | -124.84 | -230.3 | 20.2 | 240.3 | 231.4 | 8.97 | 26.785 | |
| 1,400.0 | 1,398.7 | 1,379.0 | 1,377.9 | 4.9 | 4.8 | -124.81 | -238.2 | 12.8 | 254.5 | 244.9 | 9.65 | 26.371 | |
| 1,443.1 | 1,441.3 | 1,419.3 | 1,417.8 | 5.1 | 4.9 | -124.79 | -242.2 | 8.9 | 261.8 | 251.9 | 9.95 | 26.324 | SF |
| 1,500.0 | 1,497.6 | 1,472.1 | 1,470.0 | 5.3 | 5.1 | -124.84 | -248.2 | 3.3 | 272.3 | 262.0 | 10.34 | 26.343 | |
| 1,600.0 | 1,596.4 | 1,564.5 | 1,560.8 | 5.7 | 5.5 | -124.56 | -260.2 | -8.2 | 292.3 | 281.3 | 11.03 | 26.502 | |
| 1,700.0 | 1,695.2 | 1,655.9 | 1,650.2 | 6.1 | 5.8 | -123.88 | -274.2 | -21.5 | 314.2 | 302.5 | 11.73 | 26.800 | |
| 1,800.0 | 1,794.0 | 1,746.3 | 1,737.9 | 6.5 | 6.2 | -122.90 | -290.1 | -36.5 | 338.2 | 325.8 | 12.43 | 27.216 | |
| 1,900.0 | 1,892.8 | 1,835.4 | 1,823.6 | 6.9 | 6.6 | -121.72 | -307.7 | -53.2 | 364.2 | 351.1 | 13.13 | 27.743 | |
| 2,000.0 | 1,991.6 | 1,923.2 | 1,907.3 | 7.3 | 7.0 | -120.39 | -327.0 | -71.5 | 392.4 | 378.6 | 13.83 | 28.376 | |
| 2,100.0 | 2,090.4 | 2,009.4 | 1,988.6 | 7.7 | 7.5 | -118.97 | -347.7 | -91.1 | 422.8 | 408.3 | 14.52 | 29.110 | |
| 2,200.0 | 2,189.2 | 2,098.9 | 2,072.1 | 8.1 | 8.0 | -117.43 | -371.0 | -113.3 | 455.5 | 440.2 | 15.27 | 29.832 | |
| 2,300.0 | 2,288.0 | 2,186.7 | 2,153.6 | 8.5 | 8.5 | -116.00 | -394.9 | -135.9 | 489.5 | 473.5 | 16.01 | 30.581 | |
| 2,400.0 | 2,386.8 | 2,280.0 | 2,240.1 | 8.9 | 9.0 | -114.66 | -420.2 | -159.9 | 523.9 | 507.1 | 16.82 | 31.149 | |
| 2,500.0 | 2,485.6 | 2,373.2 | 2,326.5 | 9.3 | 9.6 | -113.49 | -445.5 | -183.9 | 558.4 | 540.8 | 17.64 | 31.664 | |
| 2,600.0 | 2,584.4 | 2,466.5 | 2,413.0 | 9.7 | 10.2 | -112.46 | -470.8 | -208.0 | 593.2 | 574.7 | 18.46 | 32.133 | |
| 2,700.0 | 2,683.2 | 2,559.7 | 2,499.5 | 10.2 | 10.8 | -111.53 | -496.2 | -232.0 | 628.1 | 608.8 | 19.29 | 32.561 | |
| 2,800.0 | 2,782.0 | 2,653.0 | 2,586.0 | 10.6 | 11.4 | -110.71 | -521.5 | -256.0 | 663.1 | 643.0 | 20.12 | 32.953 | |
| 2,900.0 | 2,880.8 | 2,746.2 | 2,672.4 | 11.0 | 12.0 | -109.96 | -546.8 | -280.0 | 698.3 | 677.3 | 20.96 | 33.314 | |
| 3,000.0 | 2,979.6 | 2,839.5 | 2,758.9 | 11.4 | 12.6 | -109.29 | -572.1 | -304.0 | 733.5 | 711.7 | 21.80 | 33.645 | |
| 3,100.0 | 3,078.5 | 2,932.7 | 2,845.4 | 11.9 | 13.2 | -108.68 | -597.4 | -328.1 | 768.8 | 746.2 | 22.64 | 33.952 | |
| 3,200.0 | 3,177.3 | 3,026.0 | 2,931.9 | 12.3 | 13.8 | -108.12 | -622.8 | -352.1 | 804.2 | 780.7 | 23.49 | 34.236 | |
| 3,300.0 | 3,276.1 | 3,119.3 | 3,018.4 | 12.7 | 14.5 | -107.61 | -648.1 | -376.1 | 839.6 | 815.3 | 24.34 | 34.500 | |
| 3,400.0 | 3,374.9 | 3,212.5 | 3,104.8 | 13.1 | 15.1 | -107.14 | -673.4 | -400.1 | 875.1 | 850.0 | 25.19 | 34.746 | |
| 3,500.0 | 3,473.7 | 3,305.8 | 3,191.3 | 13.6 | 15.7 | -106.71 | -698.7 | -424.1 | 910.7 | 884.6 | 26.04 | 34.975 | |
| 3,600.0 | 3,572.5 | 3,399.0 | 3,277.8 | 14.0 | 16.4 | -106.30 | -724.0 | -448.2 | 946.3 | 919.4 | 26.89 | 35.189 | |
| 3,700.0 | 3,671.3 | 3,492.3 | 3,364.3 | 14.4 | 17.0 | -105.93 | -749.4 | -472.2 | 981.9 | 954.2 | 27.75 | 35.389 | |

| | | | |
|---|---|---|---|
| **Company:** | NEW MEXICO | **Local Co-ordinate Reference:** | Well DONNIE BRASCO FED COM 173H |
| **Project:** | (SP) EDDY | **TVD Reference:** | KB @ 3335.0usft |
| **Reference Site:** | DONNIE BRASCO | **MD Reference:** | KB @ 3335.0usft |
| **Site Error:** | 0.0 usft | **North Reference:** | Grid |
| **Reference Well:** | DONNIE BRASCO FED COM 173H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.0 usft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | OWB | **Database:** | Compass_17 |
| **Reference Design:** | PWP0 | **Offset TVD Reference:** | Offset Datum |

**Offset Design:** DONNIE BRASCO - DONNIE BRASCO FED COM 123H - OWB - PWP0

**Offset Site Error:** 0.0 usft

**Survey Program:** 0-MWD

**Offset Well Error:** 0.0 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 Centre +N/-S (usft) | Offset Wellbore Centre +E/-W (usft) | Distance Between Centres (usft) | Distance Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 90.00 | 0.0 | 60.0 | 60.0 | | | | |
| 100.0 | 100.0 | 100.0 | 100.0 | 0.3 | 0.3 | 90.00 | 0.0 | 60.0 | 60.0 | 59.5 | 0.50 | 119.555 | |
| 200.0 | 200.0 | 200.0 | 200.0 | 0.6 | 0.6 | 90.00 | 0.0 | 60.0 | 60.0 | 58.8 | 1.22 | 49.229 | |
| 300.0 | 300.0 | 300.0 | 300.0 | 1.0 | 1.0 | 90.00 | 0.0 | 60.0 | 60.0 | 58.1 | 1.94 | 30.996 | |
| 400.0 | 400.0 | 400.0 | 400.0 | 1.3 | 1.3 | 90.00 | 0.0 | 60.0 | 60.0 | 57.3 | 2.65 | 22.619 | |
| 500.0 | 500.0 | 500.0 | 500.0 | 1.7 | 1.7 | 90.00 | 0.0 | 60.0 | 60.0 | 56.6 | 3.37 | 17.806 | |
| 600.0 | 600.0 | 600.0 | 600.0 | 2.0 | 2.0 | 90.00 | 0.0 | 60.0 | 60.0 | 55.9 | 4.09 | 14.682 | |
| 700.0 | 700.0 | 700.0 | 700.0 | 2.4 | 2.4 | 90.00 | 0.0 | 60.0 | 60.0 | 55.2 | 4.80 | 12.491 | |
| 800.0 | 800.0 | 800.0 | 800.0 | 2.8 | 2.8 | 90.00 | 0.0 | 60.0 | 60.0 | 54.5 | 5.52 | 10.869 | |
| 900.0 | 900.0 | 900.0 | 900.0 | 3.1 | 3.1 | 90.00 | 0.0 | 60.0 | 60.0 | 53.8 | 6.24 | 9.619 | |
| 1,000.0 | 1,000.0 | 1,000.0 | 1,000.0 | 3.5 | 3.5 | 90.00 | 0.0 | 60.0 | 60.0 | 53.0 | 6.95 | 8.628 | |
| 1,100.0 | 1,100.0 | 1,101.7 | 1,101.7 | 3.8 | 3.8 | 152.62 | 1.1 | 58.6 | 60.2 | 52.5 | 7.67 | 7.846 | |
| 1,200.0 | 1,199.8 | 1,203.3 | 1,203.2 | 4.2 | 4.2 | 151.77 | 4.4 | 54.3 | 60.6 | 52.3 | 8.37 | 7.245 | |
| 1,300.0 | 1,299.5 | 1,305.0 | 1,304.4 | 4.5 | 4.6 | 150.38 | 10.0 | 47.2 | 61.4 | 52.4 | 9.07 | 6.776 | |
| 1,400.0 | 1,398.7 | 1,406.6 | 1,405.3 | 4.9 | 4.9 | 148.49 | 17.7 | 37.3 | 62.6 | 52.9 | 9.77 | 6.411 | |
| 1,443.1 | 1,441.3 | 1,450.4 | 1,448.6 | 5.1 | 5.1 | 147.54 | 21.7 | 32.1 | 63.3 | 53.2 | 10.08 | 6.280 | |
| 1,500.0 | 1,497.6 | 1,508.2 | 1,505.5 | 5.3 | 5.3 | 145.90 | 27.6 | 24.5 | 63.8 | 53.3 | 10.49 | 6.084 | |
| 1,600.0 | 1,596.4 | 1,609.6 | 1,605.0 | 5.7 | 5.7 | 141.20 | 39.7 | 9.0 | 63.0 | 51.8 | 11.23 | 5.610 | |
| 1,700.0 | 1,695.2 | 1,710.6 | 1,703.3 | 6.1 | 6.1 | 133.69 | 53.9 | -9.2 | 60.6 | 48.6 | 12.03 | 5.039 | |
| 1,800.0 | 1,794.0 | 1,810.7 | 1,799.9 | 6.5 | 6.6 | 122.71 | 70.0 | -29.8 | 57.9 | 45.0 | 12.91 | 4.485 | |
| 1,871.5 | 1,864.6 | 1,881.6 | 1,868.1 | 6.7 | 6.9 | 113.73 | 81.9 | -45.1 | 57.2 | 43.6 | 13.59 | 4.210 CC | |
| 1,900.0 | 1,892.8 | 1,909.9 | 1,895.4 | 6.9 | 7.1 | 110.12 | 86.6 | -51.2 | 57.3 | 43.5 | 13.86 | 4.136 ES | |
| 2,000.0 | 1,991.6 | 2,009.1 | 1,990.8 | 7.3 | 7.5 | 97.86 | 103.3 | -72.6 | 59.5 | 44.7 | 14.78 | 4.025 SF | |
| 2,100.0 | 2,090.4 | 2,108.3 | 2,086.2 | 7.7 | 8.0 | 86.92 | 119.9 | -93.9 | 64.2 | 48.5 | 15.65 | 4.101 | |
| 2,200.0 | 2,189.2 | 2,207.4 | 2,181.6 | 8.1 | 8.5 | 77.74 | 136.6 | -115.3 | 70.9 | 54.4 | 16.47 | 4.305 | |
| 2,300.0 | 2,288.0 | 2,306.6 | 2,277.0 | 8.5 | 9.0 | 70.28 | 153.2 | -136.6 | 79.1 | 61.9 | 17.25 | 4.587 | |
| 2,400.0 | 2,386.8 | 2,405.8 | 2,372.4 | 8.9 | 9.5 | 64.29 | 169.8 | -158.0 | 88.4 | 70.4 | 18.01 | 4.910 | |
| 2,500.0 | 2,485.6 | 2,505.0 | 2,467.9 | 9.3 | 10.1 | 59.47 | 186.5 | -179.4 | 98.5 | 79.7 | 18.76 | 5.250 | |
| 2,600.0 | 2,584.4 | 2,604.2 | 2,563.3 | 9.7 | 10.6 | 55.56 | 203.1 | -200.7 | 109.1 | 89.6 | 19.51 | 5.593 | |
| 2,700.0 | 2,683.2 | 2,703.4 | 2,658.7 | 10.2 | 11.1 | 52.36 | 219.8 | -222.1 | 120.1 | 99.9 | 20.26 | 5.931 | |
| 2,800.0 | 2,782.0 | 2,802.5 | 2,754.1 | 10.6 | 11.6 | 49.70 | 236.4 | -243.4 | 131.5 | 110.5 | 21.01 | 6.259 | |
| 2,900.0 | 2,880.8 | 2,901.7 | 2,849.5 | 11.0 | 12.2 | 47.47 | 253.1 | -264.8 | 143.1 | 121.3 | 21.77 | 6.574 | |
| 3,000.0 | 2,979.6 | 3,000.9 | 2,944.9 | 11.4 | 12.7 | 45.57 | 269.7 | -286.2 | 154.9 | 132.3 | 22.53 | 6.874 | |
| 3,100.0 | 3,078.5 | 3,100.1 | 3,040.4 | 11.9 | 13.2 | 43.94 | 286.3 | -307.5 | 166.8 | 143.5 | 23.29 | 7.160 | |
| 3,200.0 | 3,177.3 | 3,199.3 | 3,135.8 | 12.3 | 13.8 | 42.53 | 303.0 | -328.9 | 178.8 | 154.7 | 24.06 | 7.432 | |
| 3,300.0 | 3,276.1 | 3,298.5 | 3,231.2 | 12.7 | 14.3 | 41.30 | 319.6 | -350.2 | 190.9 | 166.1 | 24.83 | 7.690 | |
| 3,400.0 | 3,374.9 | 3,397.6 | 3,326.6 | 13.1 | 14.9 | 40.21 | 336.3 | -371.6 | 203.1 | 177.5 | 25.60 | 7.935 | |
| 3,500.0 | 3,473.7 | 3,496.8 | 3,422.0 | 13.6 | 15.4 | 39.25 | 352.9 | -393.0 | 215.4 | 189.0 | 26.38 | 8.167 | |
| 3,600.0 | 3,572.5 | 3,596.0 | 3,517.4 | 14.0 | 16.0 | 38.39 | 369.5 | -414.3 | 227.7 | 200.6 | 27.15 | 8.387 | |
| 3,700.0 | 3,671.3 | 3,695.2 | 3,612.8 | 14.4 | 16.5 | 37.62 | 386.2 | -435.7 | 240.1 | 212.2 | 27.93 | 8.596 | |
| 3,800.0 | 3,770.1 | 3,794.4 | 3,708.3 | 14.8 | 17.1 | 36.93 | 402.8 | -457.0 | 252.5 | 223.8 | 28.71 | 8.794 | |
| 3,900.0 | 3,868.9 | 3,893.6 | 3,803.7 | 15.3 | 17.6 | 36.30 | 419.5 | -478.4 | 264.9 | 235.4 | 29.49 | 8.983 | |
| 4,000.0 | 3,967.7 | 3,992.7 | 3,899.1 | 15.7 | 18.2 | 35.73 | 436.1 | -499.8 | 277.4 | 247.1 | 30.27 | 9.163 | |
| 4,100.0 | 4,066.5 | 4,091.9 | 3,994.5 | 16.1 | 18.7 | 35.20 | 452.8 | -521.1 | 289.9 | 258.8 | 31.06 | 9.334 | |
| 4,200.0 | 4,165.3 | 4,191.1 | 4,089.9 | 16.5 | 19.3 | 34.72 | 469.4 | -542.5 | 302.4 | 270.5 | 31.84 | 9.496 | |
| 4,300.0 | 4,264.1 | 4,290.3 | 4,185.3 | 17.0 | 19.8 | 34.28 | 486.0 | -563.8 | 314.9 | 282.3 | 32.63 | 9.652 | |
| 4,400.0 | 4,362.9 | 4,389.5 | 4,280.8 | 17.4 | 20.4 | 33.87 | 502.7 | -585.2 | 327.5 | 294.0 | 33.41 | 9.800 | |
| 4,500.0 | 4,461.7 | 4,488.7 | 4,376.2 | 17.8 | 20.9 | 33.49 | 519.3 | -606.6 | 340.0 | 305.8 | 34.20 | 9.942 | |
| 4,600.0 | 4,560.5 | 4,587.8 | 4,471.6 | 18.3 | 21.5 | 33.14 | 536.0 | -627.9 | 352.6 | 317.6 | 34.99 | 10.078 | |
| 4,700.0 | 4,659.4 | 4,687.0 | 4,567.0 | 18.7 | 22.1 | 32.82 | 552.6 | -649.3 | 365.2 | 329.4 | 35.78 | 10.207 | |
| 4,800.0 | 4,758.2 | 4,786.2 | 4,662.4 | 19.1 | 22.6 | 32.51 | 569.3 | -670.6 | 377.8 | 341.2 | 36.57 | 10.332 | |
| 4,900.0 | 4,857.0 | 4,885.4 | 4,757.8 | 19.6 | 23.2 | 32.22 | 585.9 | -692.0 | 390.4 | 353.0 | 37.36 | 10.451 | |

Released to Imaging: 5/1/2026 9:47:52 AM

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

| | | | |
|---|---|---|---|
| **Company:** | NEW MEXICO | **Local Co-ordinate Reference:** | Well DONNIE BRASCO FED COM 173H |
| **Project:** | (SP) EDDY | **TVD Reference:** | KB @ 3335.0usft |
| **Reference Site:** | DONNIE BRASCO | **MD Reference:** | KB @ 3335.0usft |
| **Site Error:** | 0.0 usft | **North Reference:** | Grid |
| **Reference Well:** | DONNIE BRASCO FED COM 173H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.0 usft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | OWB | **Database:** | Compass_17 |
| **Reference Design:** | PWP0 | **Offset TVD Reference:** | Offset Datum |

**Offset Design:** DONNIE BRASCO - DONNIE BRASCO FED COM 123H - OWB - PWP0

**Offset Site Error:** 0.0 usft

**Survey Program:** 0-MWD

**Offset Well Error:** 0.0 usft

**Rule Assigned:**

| 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 Centre +N/-S (usft) | Offset Wellbore Centre +E/-W (usft) | Distance Between Centres (usft) | Distance Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5,000.0 | 4,955.8 | 4,984.6 | 4,853.3 | 20.0 | 23.7 | 31.96 | 602.5 | -713.4 | 403.0 | 364.9 | 38.15 | 10.565 | |
| 5,100.0 | 5,054.6 | 5,083.8 | 4,948.7 | 20.4 | 24.3 | 31.71 | 619.2 | -734.7 | 415.6 | 376.7 | 38.94 | 10.675 | |
| 5,200.0 | 5,153.4 | 5,182.9 | 5,044.1 | 20.8 | 24.8 | 31.47 | 635.8 | -756.1 | 428.3 | 388.5 | 39.73 | 10.780 | |
| 5,300.0 | 5,252.2 | 5,282.1 | 5,139.5 | 21.3 | 25.4 | 31.25 | 652.5 | -777.4 | 440.9 | 400.4 | 40.52 | 10.882 | |
| 5,400.0 | 5,351.0 | 5,381.3 | 5,234.9 | 21.7 | 26.0 | 31.04 | 669.1 | -798.8 | 453.6 | 412.3 | 41.31 | 10.979 | |
| 5,500.0 | 5,449.8 | 5,494.6 | 5,344.3 | 22.1 | 26.6 | 30.87 | 687.2 | -822.1 | 465.0 | 422.8 | 42.26 | 11.004 | |
| 5,600.0 | 5,548.6 | 5,612.4 | 5,459.2 | 22.6 | 27.2 | 30.91 | 703.3 | -842.7 | 472.7 | 429.5 | 43.21 | 10.941 | |
| 5,700.0 | 5,647.4 | 5,730.7 | 5,575.5 | 23.0 | 27.7 | 31.14 | 716.5 | -859.6 | 476.6 | 432.5 | 44.11 | 10.806 | |
| 5,800.0 | 5,746.2 | 5,849.1 | 5,692.7 | 23.4 | 28.2 | 31.58 | 726.7 | -872.7 | 476.6 | 431.7 | 44.96 | 10.602 | |
| 5,900.0 | 5,845.0 | 5,967.2 | 5,810.2 | 23.9 | 28.6 | 32.24 | 733.9 | -882.0 | 472.8 | 427.1 | 45.76 | 10.333 | |
| 6,000.0 | 5,943.8 | 6,084.6 | 5,927.3 | 24.3 | 29.0 | 33.12 | 738.2 | -887.5 | 465.2 | 418.7 | 46.51 | 10.003 | |
| 6,100.0 | 6,042.6 | 6,199.9 | 6,042.6 | 24.7 | 29.3 | 34.26 | 739.5 | -889.1 | 454.0 | 406.8 | 47.23 | 9.613 | |
| 6,200.0 | 6,141.4 | 6,330.7 | 6,173.1 | 25.2 | 29.6 | 36.46 | 739.5 | -883.1 | 439.7 | 392.0 | 47.74 | 9.211 | |
| 6,300.0 | 6,240.3 | 6,474.7 | 6,309.7 | 25.6 | 29.7 | 43.89 | 739.8 | -839.3 | 415.1 | 366.7 | 48.40 | 8.576 | |
| 6,400.0 | 6,339.1 | 6,577.4 | 6,396.1 | 26.0 | 29.7 | 53.21 | 740.2 | -784.2 | 388.3 | 337.7 | 50.57 | 7.679 | |
| 6,500.0 | 6,437.9 | 6,648.2 | 6,447.9 | 26.4 | 29.7 | 61.57 | 740.5 | -736.0 | 370.6 | 317.3 | 53.30 | 6.952 | |
| 6,553.1 | 6,490.3 | 6,676.7 | 6,466.7 | 26.7 | 29.7 | 65.28 | 740.7 | -714.5 | 367.8 | 313.5 | 54.33 | 6.769 | |
| 6,600.0 | 6,536.7 | 6,698.0 | 6,479.8 | 26.9 | 29.6 | 68.15 | 740.8 | -697.7 | 370.1 | 315.3 | 54.75 | 6.759 | |
| 6,700.0 | 6,635.5 | 6,734.2 | 6,500.3 | 27.3 | 29.6 | 73.13 | 741.0 | -668.0 | 390.5 | 336.6 | 53.85 | 7.250 | |
| 6,800.0 | 6,734.3 | 6,761.4 | 6,514.3 | 27.7 | 29.6 | 76.90 | 741.2 | -644.6 | 430.5 | 379.4 | 51.05 | 8.433 | |
| 6,834.8 | 6,768.7 | 6,769.3 | 6,518.1 | 27.9 | 29.6 | 77.99 | 741.2 | -637.7 | 448.3 | 398.5 | 49.84 | 8.996 | |
| 6,900.0 | 6,833.2 | 6,782.8 | 6,524.3 | 28.2 | 29.6 | 80.77 | 741.3 | -625.7 | 486.3 | 438.9 | 47.47 | 10.246 | |
| 7,000.0 | 6,932.5 | 6,800.0 | 6,531.7 | 28.6 | 29.6 | 84.89 | 741.4 | -610.2 | 553.9 | 509.9 | 43.95 | 12.603 | |
| 7,100.0 | 7,032.2 | 6,817.7 | 6,538.8 | 28.9 | 29.6 | 89.46 | 741.5 | -594.0 | 629.4 | 588.4 | 40.97 | 15.361 | |
| 7,200.0 | 7,132.1 | 6,832.6 | 6,544.3 | 29.3 | 29.6 | 94.01 | 741.6 | -580.1 | 710.2 | 671.7 | 38.50 | 18.449 | |
| 7,277.9 | 7,210.0 | 6,850.0 | 6,550.1 | 29.5 | 29.6 | 35.46 | 741.8 | -563.7 | 775.9 | 738.8 | 37.06 | 20.935 | |
| 7,300.0 | 7,232.1 | 6,850.0 | 6,550.1 | 29.6 | 29.6 | 35.46 | 741.8 | -563.7 | 794.7 | 758.2 | 36.59 | 21.719 | |
| 7,345.4 | 7,277.5 | 6,850.0 | 6,550.1 | 29.7 | 29.6 | 35.46 | 741.8 | -563.7 | 834.0 | 798.3 | 35.70 | 23.359 | |
| 7,350.0 | 7,282.1 | 6,850.0 | 6,550.1 | 29.8 | 29.6 | -53.34 | 741.8 | -563.7 | 838.0 | 802.4 | 35.62 | 23.528 | |
| 7,375.0 | 7,307.1 | 6,850.0 | 6,550.1 | 29.8 | 29.6 | -49.28 | 741.8 | -563.7 | 859.7 | 824.5 | 35.16 | 24.451 | |
| 7,400.0 | 7,332.0 | 6,859.4 | 6,553.0 | 29.9 | 29.6 | -44.87 | 741.8 | -554.8 | 881.0 | 846.1 | 34.89 | 25.251 | |
| 7,425.0 | 7,356.7 | 6,863.3 | 6,554.2 | 29.9 | 29.6 | -41.41 | 741.9 | -551.1 | 902.0 | 867.5 | 34.52 | 26.131 | |
| 7,450.0 | 7,381.3 | 6,875.0 | 6,557.4 | 30.0 | 29.6 | -37.91 | 741.9 | -539.8 | 922.7 | 888.4 | 34.29 | 26.906 | |
| 7,475.0 | 7,405.5 | 6,875.0 | 6,557.4 | 30.0 | 29.6 | -35.48 | 741.9 | -539.8 | 942.8 | 908.9 | 33.87 | 27.839 | |
| 7,500.0 | 7,429.4 | 6,875.0 | 6,557.4 | 30.1 | 29.6 | -33.31 | 741.9 | -539.8 | 962.5 | 929.0 | 33.46 | 28.769 | |
| 7,525.0 | 7,452.9 | 6,875.0 | 6,557.4 | 30.1 | 29.6 | -31.36 | 741.9 | -539.8 | 981.8 | 948.7 | 33.06 | 29.693 | |

| | | | |
|---|---|---|---|
| **Company:** | NEW MEXICO | **Local Co-ordinate Reference:** | Well DONNIE BRASCO FED COM 173H |
| **Project:** | (SP) EDDY | **TVD Reference:** | KB @ 3335.0usft |
| **Reference Site:** | DONNIE BRASCO | **MD Reference:** | KB @ 3335.0usft |
| **Site Error:** | 0.0 usft | **North Reference:** | Grid |
| **Reference Well:** | DONNIE BRASCO FED COM 173H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.0 usft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | OWB | **Database:** | Compass_17 |
| **Reference Design:** | PWP0 | **Offset TVD Reference:** | Offset Datum |

**Offset Design:** DONNIE BRASCO - DONNIE BRASCO FED COM 124H - OWB - PWP0

**Offset Site Error:** 0.0 usft

**Survey Program:** 0-MWD

**Offset Well Error:** 0.0 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 Centre +N/-S (usft) | Offset Wellbore Centre +E/-W (usft) | Distance Between Centres (usft) | Distance Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 161.18 | -220.0 | 75.0 | 232.4 | | | | |
| 100.0 | 100.0 | 100.0 | 100.0 | 0.3 | 0.3 | 161.18 | -220.0 | 75.0 | 232.4 | 231.9 | 0.50 | 463.142 | |
| 200.0 | 200.0 | 200.0 | 200.0 | 0.6 | 0.6 | 161.18 | -220.0 | 75.0 | 232.4 | 231.2 | 1.22 | 190.706 | |
| 300.0 | 300.0 | 300.0 | 300.0 | 1.0 | 1.0 | 161.18 | -220.0 | 75.0 | 232.4 | 230.5 | 1.94 | 120.074 | |
| 400.0 | 400.0 | 400.0 | 400.0 | 1.3 | 1.3 | 161.18 | -220.0 | 75.0 | 232.4 | 229.8 | 2.65 | 87.622 | |
| 500.0 | 500.0 | 500.0 | 500.0 | 1.7 | 1.7 | 161.18 | -220.0 | 75.0 | 232.4 | 229.1 | 3.37 | 68.979 | |
| 600.0 | 600.0 | 600.0 | 600.0 | 2.0 | 2.0 | 161.18 | -220.0 | 75.0 | 232.4 | 228.3 | 4.09 | 56.877 | |
| 700.0 | 700.0 | 700.0 | 700.0 | 2.4 | 2.4 | 161.18 | -220.0 | 75.0 | 232.4 | 227.6 | 4.80 | 48.388 | |
| 800.0 | 800.0 | 800.0 | 800.0 | 2.8 | 2.8 | 161.18 | -220.0 | 75.0 | 232.4 | 226.9 | 5.52 | 42.104 | |
| 900.0 | 900.0 | 900.0 | 900.0 | 3.1 | 3.1 | 161.18 | -220.0 | 75.0 | 232.4 | 226.2 | 6.24 | 37.264 | |
| 1,000.0 | 1,000.0 | 1,000.0 | 1,000.0 | 3.5 | 3.5 | 161.18 | -220.0 | 75.0 | 232.4 | 225.5 | 6.95 | 33.423 | CC, ES |
| 1,100.0 | 1,100.0 | 1,100.0 | 1,099.9 | 3.8 | 3.8 | -135.77 | -220.6 | 73.4 | 233.7 | 226.0 | 7.66 | 30.526 | |
| 1,200.0 | 1,199.8 | 1,199.8 | 1,199.6 | 4.2 | 4.2 | -135.33 | -222.3 | 68.4 | 237.5 | 229.1 | 8.35 | 28.450 | |
| 1,300.0 | 1,299.5 | 1,299.4 | 1,298.9 | 4.5 | 4.5 | -134.64 | -225.1 | 60.2 | 243.8 | 234.8 | 9.05 | 26.941 | |
| 1,400.0 | 1,398.7 | 1,398.7 | 1,397.4 | 4.9 | 4.9 | -133.72 | -229.0 | 48.8 | 252.7 | 242.9 | 9.77 | 25.873 | |
| 1,443.1 | 1,441.3 | 1,441.4 | 1,439.6 | 5.1 | 5.0 | -133.27 | -231.1 | 42.9 | 257.3 | 247.2 | 10.08 | 25.519 | |
| 1,500.0 | 1,497.6 | 1,497.6 | 1,495.1 | 5.3 | 5.2 | -132.64 | -234.1 | 34.3 | 263.8 | 253.3 | 10.50 | 25.116 | |
| 1,600.0 | 1,596.4 | 1,596.0 | 1,591.7 | 5.7 | 5.6 | -131.05 | -240.1 | 16.6 | 275.4 | 264.2 | 11.26 | 24.463 | |
| 1,700.0 | 1,695.2 | 1,693.9 | 1,687.1 | 6.1 | 6.0 | -128.94 | -247.3 | -4.0 | 287.6 | 275.6 | 12.04 | 23.893 | |
| 1,800.0 | 1,794.0 | 1,792.4 | 1,782.9 | 6.5 | 6.4 | -126.75 | -254.8 | -26.0 | 300.4 | 287.6 | 12.85 | 23.388 | |
| 1,900.0 | 1,892.8 | 1,891.0 | 1,878.7 | 6.9 | 6.9 | -124.74 | -262.4 | -47.9 | 313.6 | 299.9 | 13.67 | 22.947 | |
| 2,000.0 | 1,991.6 | 1,989.5 | 1,974.4 | 7.3 | 7.3 | -122.89 | -269.9 | -69.8 | 327.1 | 312.6 | 14.50 | 22.561 | |
| 2,100.0 | 2,090.4 | 2,088.0 | 2,070.2 | 7.7 | 7.8 | -121.19 | -277.5 | -91.7 | 341.0 | 325.6 | 15.34 | 22.224 | |
| 2,200.0 | 2,189.2 | 2,186.6 | 2,166.0 | 8.1 | 8.3 | -119.62 | -285.1 | -113.7 | 355.1 | 338.9 | 16.19 | 21.929 | |
| 2,300.0 | 2,288.0 | 2,285.1 | 2,261.8 | 8.5 | 8.7 | -118.17 | -292.6 | -135.6 | 369.5 | 352.4 | 17.05 | 21.671 | |
| 2,400.0 | 2,386.8 | 2,383.7 | 2,357.5 | 8.9 | 9.2 | -116.83 | -300.2 | -157.5 | 384.0 | 366.1 | 17.91 | 21.443 | |
| 2,500.0 | 2,485.6 | 2,482.2 | 2,453.3 | 9.3 | 9.7 | -115.58 | -307.8 | -179.5 | 398.8 | 380.0 | 18.77 | 21.242 | |
| 2,600.0 | 2,584.4 | 2,580.8 | 2,549.1 | 9.7 | 10.2 | -114.43 | -315.3 | -201.4 | 413.7 | 394.1 | 19.64 | 21.065 | |
| 2,700.0 | 2,683.2 | 2,679.3 | 2,644.9 | 10.2 | 10.7 | -113.35 | -322.9 | -223.3 | 428.8 | 408.3 | 20.51 | 20.908 | |
| 2,800.0 | 2,782.0 | 2,777.8 | 2,740.6 | 10.6 | 11.2 | -112.35 | -330.4 | -245.2 | 444.1 | 422.7 | 21.38 | 20.768 | |
| 2,900.0 | 2,880.8 | 2,876.4 | 2,836.4 | 11.0 | 11.6 | -111.42 | -338.0 | -267.2 | 459.4 | 437.2 | 22.26 | 20.643 | |
| 3,000.0 | 2,979.6 | 2,974.9 | 2,932.2 | 11.4 | 12.1 | -110.54 | -345.6 | -289.1 | 474.9 | 451.8 | 23.13 | 20.532 | |
| 3,100.0 | 3,078.5 | 3,073.5 | 3,028.0 | 11.9 | 12.6 | -109.72 | -353.1 | -311.0 | 490.5 | 466.5 | 24.01 | 20.432 | |
| 3,200.0 | 3,177.3 | 3,172.0 | 3,123.7 | 12.3 | 13.1 | -108.95 | -360.7 | -333.0 | 506.1 | 481.3 | 24.88 | 20.342 | |
| 3,300.0 | 3,276.1 | 3,270.6 | 3,219.5 | 12.7 | 13.6 | -108.23 | -368.3 | -354.9 | 521.9 | 496.1 | 25.76 | 20.261 | |
| 3,400.0 | 3,374.9 | 3,369.1 | 3,315.3 | 13.1 | 14.1 | -107.55 | -375.8 | -376.8 | 537.7 | 511.1 | 26.63 | 20.188 | |
| 3,500.0 | 3,473.7 | 3,467.6 | 3,411.0 | 13.6 | 14.6 | -106.91 | -383.4 | -398.8 | 553.6 | 526.1 | 27.51 | 20.122 | |
| 3,600.0 | 3,572.5 | 3,566.2 | 3,506.8 | 14.0 | 15.1 | -106.30 | -390.9 | -420.7 | 569.6 | 541.2 | 28.39 | 20.063 | |
| 3,700.0 | 3,671.3 | 3,664.7 | 3,602.6 | 14.4 | 15.7 | -105.73 | -398.5 | -442.6 | 585.6 | 556.3 | 29.27 | 20.008 | |
| 3,800.0 | 3,770.1 | 3,763.3 | 3,698.4 | 14.8 | 16.2 | -105.19 | -406.1 | -464.5 | 601.6 | 571.5 | 30.14 | 19.959 | |
| 3,900.0 | 3,868.9 | 3,861.8 | 3,794.1 | 15.3 | 16.7 | -104.67 | -413.6 | -486.5 | 617.8 | 586.7 | 31.02 | 19.914 | |
| 4,000.0 | 3,967.7 | 3,960.4 | 3,889.9 | 15.7 | 17.2 | -104.18 | -421.2 | -508.4 | 633.9 | 602.0 | 31.90 | 19.872 | |
| 4,100.0 | 4,066.5 | 4,058.9 | 3,985.7 | 16.1 | 17.7 | -103.72 | -428.8 | -530.3 | 650.1 | 617.4 | 32.78 | 19.834 | |
| 4,200.0 | 4,165.3 | 4,157.5 | 4,081.5 | 16.5 | 18.2 | -103.28 | -436.3 | -552.3 | 666.4 | 632.7 | 33.66 | 19.800 | |
| 4,300.0 | 4,264.1 | 4,256.0 | 4,177.2 | 17.0 | 18.7 | -102.86 | -443.9 | -574.2 | 682.7 | 648.2 | 34.53 | 19.768 | |
| 4,400.0 | 4,362.9 | 4,354.5 | 4,273.0 | 17.4 | 19.2 | -102.46 | -451.5 | -596.1 | 699.0 | 663.6 | 35.41 | 19.739 | |
| 4,500.0 | 4,461.7 | 4,453.1 | 4,368.8 | 17.8 | 19.7 | -102.07 | -459.0 | -618.0 | 715.4 | 679.1 | 36.29 | 19.712 | |
| 4,600.0 | 4,560.5 | 4,551.6 | 4,464.6 | 18.3 | 20.2 | -101.71 | -466.6 | -640.0 | 731.7 | 694.6 | 37.17 | 19.687 | |
| 4,700.0 | 4,659.4 | 4,650.2 | 4,560.3 | 18.7 | 20.7 | -101.36 | -474.1 | -661.9 | 748.2 | 710.1 | 38.05 | 19.664 | |
| 4,800.0 | 4,758.2 | 4,748.7 | 4,656.1 | 19.1 | 21.3 | -101.02 | -481.7 | -683.8 | 764.6 | 725.7 | 38.92 | 19.643 | |
| 4,900.0 | 4,857.0 | 4,847.3 | 4,751.9 | 19.6 | 21.8 | -100.70 | -489.3 | -705.8 | 781.0 | 741.2 | 39.80 | 19.623 | |
| 5,000.0 | 4,955.8 | 4,945.8 | 4,847.7 | 20.0 | 22.3 | -100.40 | -496.8 | -727.7 | 797.5 | 756.9 | 40.68 | 19.605 | |

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

| | | | |
|---|---|---|---|
| **Company:** | NEW MEXICO | **Local Co-ordinate Reference:** | Well DONNIE BRASCO FED COM 173H |
| **Project:** | (SP) EDDY | **TVD Reference:** | KB @ 3335.0usft |
| **Reference Site:** | DONNIE BRASCO | **MD Reference:** | KB @ 3335.0usft |
| **Site Error:** | 0.0 usft | **North Reference:** | Grid |
| **Reference Well:** | DONNIE BRASCO FED COM 173H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.0 usft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | OWB | **Database:** | Compass_17 |
| **Reference Design:** | PWP0 | **Offset TVD Reference:** | Offset Datum |

**Offset Design:** DONNIE BRASCO - DONNIE BRASCO FED COM 124H - OWB - PWP0

**Offset Site Error:** 0.0 usft

**Survey Program:** 0-MWD

**Rule Assigned:**

**Offset Well Error:** 0.0 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 Centre +N/-S (usft) | Offset Wellbore Centre +E/-W (usft) | Distance Between Centres (usft) | Distance Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5,100.0 | 5,054.6 | 5,044.3 | 4,943.4 | 20.4 | 22.8 | -100.10 | -504.4 | -749.6 | 814.0 | 772.5 | 41.56 | 19.588 | |
| 5,200.0 | 5,153.4 | 5,142.9 | 5,039.2 | 20.8 | 23.3 | -99.82 | -512.0 | -771.6 | 830.6 | 788.1 | 42.44 | 19.572 | |
| 5,300.0 | 5,252.2 | 5,241.4 | 5,135.0 | 21.3 | 23.8 | -99.55 | -519.5 | -793.5 | 847.1 | 803.8 | 43.31 | 19.557 | |
| 5,400.0 | 5,351.0 | 5,340.0 | 5,230.8 | 21.7 | 24.3 | -99.28 | -527.1 | -815.4 | 863.7 | 819.5 | 44.19 | 19.544 | |
| 5,500.0 | 5,449.8 | 5,438.5 | 5,326.5 | 22.1 | 24.8 | -99.03 | -534.6 | -837.3 | 880.2 | 835.2 | 45.07 | 19.531 | |
| 5,600.0 | 5,548.6 | 5,551.2 | 5,436.3 | 22.6 | 25.4 | -98.81 | -543.0 | -861.5 | 896.4 | 850.3 | 46.06 | 19.461 | |
| 5,700.0 | 5,647.4 | 5,673.2 | 5,556.1 | 23.0 | 26.0 | -98.81 | -550.5 | -883.3 | 910.1 | 863.1 | 47.09 | 19.327 | |
| 5,800.0 | 5,746.2 | 5,795.9 | 5,677.5 | 23.4 | 26.5 | -99.08 | -556.4 | -900.3 | 921.4 | 873.3 | 48.08 | 19.163 | |
| 5,900.0 | 5,845.0 | 5,918.8 | 5,799.7 | 23.9 | 27.0 | -99.61 | -560.5 | -912.4 | 930.2 | 881.1 | 49.02 | 18.975 | |
| 6,000.0 | 5,943.8 | 6,041.4 | 5,922.1 | 24.3 | 27.4 | -100.38 | -563.0 | -919.5 | 936.5 | 886.6 | 49.91 | 18.764 | |
| 6,100.0 | 6,042.6 | 6,162.1 | 6,042.6 | 24.7 | 27.8 | -101.38 | -563.7 | -921.7 | 940.5 | 889.8 | 50.75 | 18.534 | |
| 6,200.0 | 6,141.4 | 6,306.0 | 6,186.1 | 25.2 | 28.1 | -103.17 | -563.7 | -913.4 | 942.7 | 891.2 | 51.51 | 18.300 | |
| 6,300.0 | 6,240.3 | 6,467.5 | 6,336.8 | 25.6 | 28.2 | -107.84 | -563.3 | -857.4 | 938.6 | 886.5 | 52.08 | 18.020 | |
| 6,400.0 | 6,339.1 | 6,574.2 | 6,422.4 | 26.0 | 28.1 | -112.41 | -562.9 | -794.2 | 933.7 | 881.0 | 52.78 | 17.690 | |
| 6,452.8 | 6,391.2 | 6,614.3 | 6,450.6 | 26.2 | 28.1 | -114.38 | -562.8 | -765.7 | 932.9 | 879.7 | 53.17 | 17.547 | |
| 6,500.0 | 6,437.9 | 6,643.4 | 6,469.5 | 26.4 | 28.1 | -115.89 | -562.6 | -743.6 | 933.7 | 880.2 | 53.47 | 17.461 | |
| 6,600.0 | 6,536.7 | 6,690.1 | 6,497.0 | 26.9 | 28.1 | -118.42 | -562.4 | -705.8 | 941.1 | 887.2 | 53.90 | 17.459 SF | |
| 6,700.0 | 6,635.5 | 6,725.0 | 6,515.0 | 27.3 | 28.1 | -120.37 | -562.2 | -675.9 | 957.2 | 903.2 | 53.96 | 17.739 | |
| 6,800.0 | 6,734.3 | 6,750.0 | 6,526.5 | 27.7 | 28.1 | -121.81 | -562.0 | -653.8 | 982.1 | 928.5 | 53.61 | 18.320 | |
| 6,834.8 | 6,768.7 | 6,754.7 | 6,528.6 | 27.9 | 28.1 | -122.08 | -562.0 | -649.5 | 992.8 | 939.5 | 53.39 | 18.596 | |

| | | | |
|---|---|---|---|
| **Company:** | NEW MEXICO | **Local Co-ordinate Reference:** | Well DONNIE BRASCO FED COM 173H |
| **Project:** | (SP) EDDY | **TVD Reference:** | KB @ 3335.0usft |
| **Reference Site:** | DONNIE BRASCO | **MD Reference:** | KB @ 3335.0usft |
| **Site Error:** | 0.0 usft | **North Reference:** | Grid |
| **Reference Well:** | DONNIE BRASCO FED COM 173H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.0 usft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | OWB | **Database:** | Compass_17 |
| **Reference Design:** | PWP0 | **Offset TVD Reference:** | Offset Datum |

**Offset Design:** DONNIE BRASCO - DONNIE BRASCO FED COM 133H - OWB - PWP0

**Offset Site Error:** 0.0 usft

**Survey Program:** 0-MWD

**Offset Well Error:** 0.0 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 Centre +N/-S (usft) | Offset Wellbore Centre +E/-W (usft) | Rule Assigned: Distance Between Centres (usft) | Distance Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 90.00 | 0.0 | 30.0 | 30.0 | | | | |
| 100.0 | 100.0 | 100.0 | 100.0 | 0.3 | 0.3 | 90.00 | 0.0 | 30.0 | 30.0 | 29.5 | 0.50 | 59.778 | |
| 200.0 | 200.0 | 200.0 | 200.0 | 0.6 | 0.6 | 90.00 | 0.0 | 30.0 | 30.0 | 28.8 | 1.22 | 24.614 | |
| 300.0 | 300.0 | 300.0 | 300.0 | 1.0 | 1.0 | 90.00 | 0.0 | 30.0 | 30.0 | 28.1 | 1.94 | 15.498 | |
| 400.0 | 400.0 | 400.0 | 400.0 | 1.3 | 1.3 | 90.00 | 0.0 | 30.0 | 30.0 | 27.3 | 2.65 | 11.309 | |
| 500.0 | 500.0 | 500.0 | 500.0 | 1.7 | 1.7 | 90.00 | 0.0 | 30.0 | 30.0 | 26.6 | 3.37 | 8.903 | |
| 600.0 | 600.0 | 600.0 | 600.0 | 2.0 | 2.0 | 90.00 | 0.0 | 30.0 | 30.0 | 25.9 | 4.09 | 7.341 | |
| 700.0 | 700.0 | 700.0 | 700.0 | 2.4 | 2.4 | 90.00 | 0.0 | 30.0 | 30.0 | 25.2 | 4.80 | 6.245 | |
| 800.0 | 800.0 | 800.0 | 800.0 | 2.8 | 2.8 | 90.00 | 0.0 | 30.0 | 30.0 | 24.5 | 5.52 | 5.434 | |
| 900.0 | 900.0 | 900.0 | 900.0 | 3.1 | 3.1 | 90.00 | 0.0 | 30.0 | 30.0 | 23.8 | 6.24 | 4.810 | |
| 1,000.0 | 1,000.0 | 1,000.0 | 1,000.0 | 3.5 | 3.5 | 90.00 | 0.0 | 30.0 | 30.0 | 23.0 | 6.95 | 4.314 CC | |
| 1,100.0 | 1,100.0 | 1,100.8 | 1,100.8 | 3.8 | 3.8 | 152.32 | 1.1 | 28.6 | 30.2 | 22.5 | 7.66 | 3.939 | |
| 1,200.0 | 1,199.8 | 1,201.6 | 1,201.5 | 4.2 | 4.2 | 150.59 | 4.4 | 24.5 | 30.8 | 22.4 | 8.36 | 3.678 ES | |
| 1,300.0 | 1,299.5 | 1,302.4 | 1,301.9 | 4.5 | 4.6 | 147.85 | 10.0 | 17.6 | 31.8 | 22.7 | 9.06 | 3.505 | |
| 1,400.0 | 1,398.7 | 1,403.2 | 1,401.9 | 4.9 | 4.9 | 144.31 | 17.8 | 7.9 | 33.3 | 23.5 | 9.77 | 3.408 | |
| 1,443.1 | 1,441.3 | 1,446.6 | 1,444.8 | 5.1 | 5.1 | 142.60 | 21.8 | 2.9 | 34.1 | 24.0 | 10.08 | 3.386 | |
| 1,500.0 | 1,497.6 | 1,503.9 | 1,501.3 | 5.3 | 5.3 | 139.65 | 27.7 | -4.4 | 35.0 | 24.5 | 10.49 | 3.333 | |
| 1,600.0 | 1,596.4 | 1,603.9 | 1,599.7 | 5.7 | 5.7 | 132.97 | 38.9 | -18.4 | 35.9 | 24.7 | 11.26 | 3.190 | |
| 1,700.0 | 1,695.2 | 1,703.8 | 1,698.0 | 6.1 | 6.1 | 126.69 | 50.2 | -32.4 | 37.3 | 25.3 | 12.06 | 3.095 | |
| 1,800.0 | 1,794.0 | 1,803.7 | 1,796.3 | 6.5 | 6.5 | 120.93 | 61.4 | -46.3 | 39.1 | 26.3 | 12.88 | 3.040 | |
| 1,900.0 | 1,892.8 | 1,903.7 | 1,894.6 | 6.9 | 6.9 | 115.72 | 72.6 | -60.3 | 41.3 | 27.6 | 13.70 | 3.015 | |
| 2,000.0 | 1,991.6 | 2,003.6 | 1,992.9 | 7.3 | 7.3 | 111.06 | 83.9 | -74.2 | 43.8 | 29.3 | 14.54 | 3.011 | |
| 2,100.0 | 2,090.4 | 2,103.5 | 2,091.2 | 7.7 | 7.8 | 106.93 | 95.1 | -88.2 | 46.5 | 31.1 | 15.39 | 3.024 | |
| 2,200.0 | 2,189.2 | 2,203.4 | 2,189.5 | 8.1 | 8.2 | 103.27 | 106.3 | -102.1 | 49.5 | 33.2 | 16.24 | 3.047 | |
| 2,300.0 | 2,288.0 | 2,303.3 | 2,287.7 | 8.5 | 8.6 | 100.04 | 117.5 | -116.1 | 52.6 | 35.5 | 17.09 | 3.078 | |
| 2,400.0 | 2,386.8 | 2,403.2 | 2,386.0 | 8.9 | 9.1 | 97.17 | 128.8 | -130.1 | 55.9 | 37.9 | 17.95 | 3.115 | |
| 2,500.0 | 2,485.6 | 2,503.1 | 2,484.3 | 9.3 | 9.5 | 94.63 | 140.0 | -144.0 | 59.3 | 40.5 | 18.80 | 3.154 | |
| 2,600.0 | 2,584.4 | 2,603.0 | 2,582.6 | 9.7 | 9.9 | 92.37 | 151.2 | -158.0 | 62.8 | 43.2 | 19.65 | 3.196 | |
| 2,700.0 | 2,683.2 | 2,702.9 | 2,680.9 | 10.2 | 10.4 | 90.35 | 162.5 | -171.9 | 66.4 | 45.9 | 20.50 | 3.238 | |
| 2,800.0 | 2,782.0 | 2,802.8 | 2,779.2 | 10.6 | 10.8 | 88.54 | 173.7 | -185.9 | 70.1 | 48.7 | 21.35 | 3.281 | |
| 2,900.0 | 2,880.8 | 2,902.8 | 2,877.5 | 11.0 | 11.2 | 86.91 | 184.9 | -199.9 | 73.8 | 51.6 | 22.21 | 3.323 | |
| 3,000.0 | 2,979.6 | 3,002.7 | 2,975.8 | 11.4 | 11.7 | 85.44 | 196.2 | -213.8 | 77.6 | 54.5 | 23.06 | 3.365 | |
| 3,100.0 | 3,078.5 | 3,102.6 | 3,074.1 | 11.9 | 12.1 | 84.11 | 207.4 | -227.8 | 81.4 | 57.5 | 23.91 | 3.405 | |
| 3,200.0 | 3,177.3 | 3,202.5 | 3,172.4 | 12.3 | 12.6 | 82.90 | 218.6 | -241.7 | 85.3 | 60.5 | 24.76 | 3.445 | |
| 3,300.0 | 3,276.1 | 3,302.4 | 3,270.7 | 12.7 | 13.0 | 81.79 | 229.8 | -255.7 | 89.2 | 63.6 | 25.60 | 3.483 | |
| 3,400.0 | 3,374.9 | 3,402.3 | 3,368.9 | 13.1 | 13.5 | 80.78 | 241.1 | -269.6 | 93.1 | 66.7 | 26.45 | 3.520 | |
| 3,500.0 | 3,473.7 | 3,502.2 | 3,467.2 | 13.6 | 13.9 | 79.84 | 252.3 | -283.6 | 97.1 | 69.8 | 27.30 | 3.556 | |
| 3,600.0 | 3,572.5 | 3,602.1 | 3,565.5 | 14.0 | 14.4 | 78.99 | 263.5 | -297.6 | 101.1 | 72.9 | 28.15 | 3.591 | |
| 3,700.0 | 3,671.3 | 3,702.0 | 3,663.8 | 14.4 | 14.8 | 78.19 | 274.8 | -311.5 | 105.1 | 76.1 | 29.00 | 3.624 | |
| 3,800.0 | 3,770.1 | 3,801.9 | 3,762.1 | 14.8 | 15.3 | 77.46 | 286.0 | -325.5 | 109.1 | 79.3 | 29.84 | 3.656 | |
| 3,900.0 | 3,868.9 | 3,901.8 | 3,860.4 | 15.3 | 15.7 | 76.78 | 297.2 | -339.4 | 113.1 | 82.5 | 30.69 | 3.687 | |
| 4,000.0 | 3,967.7 | 4,001.8 | 3,958.7 | 15.7 | 16.1 | 76.14 | 308.5 | -353.4 | 117.2 | 85.7 | 31.54 | 3.717 | |
| 4,100.0 | 4,066.5 | 4,101.7 | 4,057.0 | 16.1 | 16.6 | 75.55 | 319.7 | -367.4 | 121.3 | 88.9 | 32.38 | 3.745 | |
| 4,200.0 | 4,165.3 | 4,201.6 | 4,155.3 | 16.5 | 17.0 | 74.99 | 330.9 | -381.3 | 125.4 | 92.1 | 33.23 | 3.773 | |
| 4,300.0 | 4,264.1 | 4,301.5 | 4,253.6 | 17.0 | 17.5 | 74.47 | 342.1 | -395.3 | 129.5 | 95.4 | 34.07 | 3.799 | |
| 4,400.0 | 4,362.9 | 4,401.4 | 4,351.8 | 17.4 | 17.9 | 73.99 | 353.4 | -409.2 | 133.6 | 98.6 | 34.92 | 3.825 | |
| 4,500.0 | 4,461.7 | 4,501.3 | 4,450.1 | 17.8 | 18.4 | 73.53 | 364.6 | -423.2 | 137.7 | 101.9 | 35.77 | 3.849 | |
| 4,600.0 | 4,560.5 | 4,601.2 | 4,548.4 | 18.3 | 18.9 | 73.10 | 375.8 | -437.1 | 141.8 | 105.2 | 36.61 | 3.873 | |
| 4,700.0 | 4,659.4 | 4,701.1 | 4,646.7 | 18.7 | 19.3 | 72.69 | 387.1 | -451.1 | 145.9 | 108.5 | 37.46 | 3.896 | |
| 4,800.0 | 4,758.2 | 4,801.0 | 4,745.0 | 19.1 | 19.8 | 72.31 | 398.3 | -465.1 | 150.1 | 111.8 | 38.30 | 3.918 | |
| 4,900.0 | 4,857.0 | 4,900.9 | 4,843.3 | 19.6 | 20.2 | 71.94 | 409.5 | -479.0 | 154.2 | 115.1 | 39.15 | 3.939 | |
| 5,000.0 | 4,955.8 | 5,000.9 | 4,941.6 | 20.0 | 20.7 | 71.60 | 420.8 | -493.0 | 158.3 | 118.4 | 40.00 | 3.959 | |

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

| | | | |
|---|---|---|---|
| **Company:** | NEW MEXICO | **Local Co-ordinate Reference:** | Well DONNIE BRASCO FED COM 173H |
| **Project:** | (SP) EDDY | **TVD Reference:** | KB @ 3335.0usft |
| **Reference Site:** | DONNIE BRASCO | **MD Reference:** | KB @ 3335.0usft |
| **Site Error:** | 0.0 usft | **North Reference:** | Grid |
| **Reference Well:** | DONNIE BRASCO FED COM 173H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.0 usft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | OWB | **Database:** | Compass_17 |
| **Reference Design:** | PWP0 | **Offset TVD Reference:** | Offset Datum |

**Offset Design:** DONNIE BRASCO - DONNIE BRASCO FED COM 133H - OWB - PWP0

**Offset Site Error:** 0.0 usft

**Survey Program:** 0-MWD

**Offset Well Error:** 0.0 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 Centre +N/-S (usft) | Offset Wellbore Centre +E/-W (usft) | Rule Assigned: Distance Between Centres (usft) | Distance Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5,100.0 | 5,054.6 | 5,100.8 | 5,039.9 | 20.4 | 21.1 | 71.27 | 432.0 | -506.9 | 162.5 | 121.7 | 40.84 | 3.979 | |
| 5,200.0 | 5,153.4 | 5,200.7 | 5,138.2 | 20.8 | 21.6 | 70.96 | 443.2 | -520.9 | 166.7 | 125.0 | 41.69 | 3.998 | |
| 5,300.0 | 5,252.2 | 5,300.6 | 5,236.5 | 21.3 | 22.0 | 70.66 | 454.4 | -534.8 | 170.8 | 128.3 | 42.53 | 4.016 | |
| 5,400.0 | 5,351.0 | 5,400.5 | 5,334.7 | 21.7 | 22.5 | 70.38 | 465.7 | -548.8 | 175.0 | 131.6 | 43.38 | 4.034 | |
| 5,500.0 | 5,449.8 | 5,500.4 | 5,433.0 | 22.1 | 22.9 | 70.11 | 476.9 | -562.8 | 179.2 | 134.9 | 44.22 | 4.051 | |
| 5,600.0 | 5,548.6 | 5,600.3 | 5,531.3 | 22.6 | 23.4 | 69.86 | 488.1 | -576.7 | 183.3 | 138.3 | 45.07 | 4.068 | |
| 5,700.0 | 5,647.4 | 5,700.2 | 5,629.6 | 23.0 | 23.8 | 69.61 | 499.4 | -590.7 | 187.5 | 141.6 | 45.91 | 4.084 | |
| 5,800.0 | 5,746.2 | 5,800.1 | 5,727.9 | 23.4 | 24.3 | 69.38 | 510.6 | -604.6 | 191.7 | 144.9 | 46.76 | 4.100 | |
| 5,900.0 | 5,845.0 | 5,900.0 | 5,826.2 | 23.9 | 24.7 | 69.15 | 521.8 | -618.6 | 195.9 | 148.3 | 47.60 | 4.115 | |
| 6,000.0 | 5,943.8 | 5,999.9 | 5,924.5 | 24.3 | 25.2 | 68.94 | 533.1 | -632.6 | 200.1 | 151.6 | 48.45 | 4.129 | |
| 6,100.0 | 6,042.6 | 6,099.9 | 6,022.8 | 24.7 | 25.6 | 68.73 | 544.3 | -646.5 | 204.3 | 155.0 | 49.30 | 4.144 | |
| 6,200.0 | 6,141.4 | 6,199.8 | 6,121.1 | 25.2 | 26.1 | 68.53 | 555.5 | -660.5 | 208.5 | 158.3 | 50.14 | 4.157 | |
| 6,300.0 | 6,240.3 | 6,299.7 | 6,219.4 | 25.6 | 26.5 | 68.34 | 566.8 | -674.4 | 212.7 | 161.7 | 50.99 | 4.171 | |
| 6,400.0 | 6,339.1 | 6,399.6 | 6,317.6 | 26.0 | 27.0 | 68.16 | 578.0 | -688.4 | 216.9 | 165.0 | 51.83 | 4.184 | |
| 6,500.0 | 6,437.9 | 6,499.5 | 6,415.9 | 26.4 | 27.5 | 67.98 | 589.2 | -702.3 | 221.1 | 168.4 | 52.68 | 4.196 | |
| 6,600.0 | 6,536.7 | 6,599.4 | 6,514.2 | 26.9 | 27.9 | 67.82 | 600.4 | -716.3 | 225.3 | 171.7 | 53.52 | 4.209 | |
| 6,700.0 | 6,635.5 | 6,699.3 | 6,612.5 | 27.3 | 28.4 | 67.65 | 611.7 | -730.3 | 229.5 | 175.1 | 54.37 | 4.220 | |
| 6,800.0 | 6,734.3 | 6,799.2 | 6,710.8 | 27.7 | 28.8 | 67.50 | 622.9 | -744.2 | 233.7 | 178.5 | 55.21 | 4.232 | |
| 6,834.8 | 6,768.7 | 6,834.0 | 6,745.0 | 27.9 | 29.0 | 67.44 | 626.8 | -749.1 | 235.1 | 179.6 | 55.51 | 4.236 | |
| 6,900.0 | 6,833.2 | 6,899.1 | 6,809.1 | 28.2 | 29.3 | 67.24 | 634.1 | -758.2 | 238.2 | 182.1 | 56.04 | 4.250 | |
| 7,000.0 | 6,932.5 | 6,998.8 | 6,907.2 | 28.6 | 29.7 | 66.33 | 645.3 | -772.1 | 244.0 | 187.2 | 56.77 | 4.297 | |
| 7,100.0 | 7,032.2 | 7,098.3 | 7,005.0 | 28.9 | 30.2 | 64.78 | 656.5 | -786.0 | 251.3 | 193.9 | 57.41 | 4.378 | |
| 7,200.0 | 7,132.1 | 7,197.4 | 7,102.5 | 29.3 | 30.6 | 62.68 | 667.7 | -799.8 | 260.4 | 202.5 | 57.95 | 4.495 | |
| 7,277.9 | 7,210.0 | 7,274.2 | 7,178.1 | 29.5 | 31.0 | -2.18 | 676.3 | -810.6 | 269.0 | 210.7 | 58.30 | 4.614 | |
| 7,300.0 | 7,232.1 | 7,295.9 | 7,199.5 | 29.6 | 31.1 | -2.81 | 678.7 | -813.6 | 271.6 | 213.3 | 58.39 | 4.652 | |
| 7,345.4 | 7,277.5 | 7,340.6 | 7,243.4 | 29.7 | 31.3 | -4.06 | 683.8 | -819.9 | 277.2 | 218.6 | 58.58 | 4.731 | |
| 7,350.0 | 7,282.1 | 7,345.1 | 7,247.8 | 29.8 | 31.3 | -93.70 | 684.3 | -820.5 | 277.7 | 219.1 | 58.60 | 4.739 | |
| 7,375.0 | 7,307.1 | 7,369.6 | 7,271.9 | 29.8 | 31.4 | -94.16 | 687.0 | -823.9 | 280.9 | 222.2 | 58.68 | 4.787 | |
| 7,400.0 | 7,332.0 | 7,393.7 | 7,295.7 | 29.9 | 31.5 | -94.82 | 689.7 | -827.3 | 284.3 | 225.5 | 58.72 | 4.841 | |
| 7,425.0 | 7,356.7 | 7,417.6 | 7,319.2 | 29.9 | 31.6 | -95.66 | 692.4 | -830.6 | 287.8 | 229.1 | 58.72 | 4.902 | |
| 7,450.0 | 7,381.3 | 7,441.1 | 7,342.3 | 30.0 | 31.7 | -96.65 | 695.0 | -833.9 | 291.7 | 233.0 | 58.69 | 4.971 | |
| 7,475.0 | 7,405.5 | 7,464.1 | 7,364.9 | 30.0 | 31.8 | -97.76 | 697.6 | -837.1 | 296.0 | 237.4 | 58.62 | 5.049 | |
| 7,500.0 | 7,429.4 | 7,486.6 | 7,387.0 | 30.1 | 31.9 | -98.95 | 700.2 | -840.3 | 300.7 | 242.2 | 58.53 | 5.138 | |
| 7,525.0 | 7,452.9 | 7,508.5 | 7,408.6 | 30.1 | 32.0 | -100.18 | 702.6 | -843.3 | 306.0 | 247.6 | 58.41 | 5.239 | |
| 7,550.0 | 7,475.9 | 7,529.8 | 7,429.5 | 30.1 | 32.1 | -101.42 | 705.0 | -846.3 | 311.9 | 253.7 | 58.27 | 5.353 | |
| 7,575.0 | 7,498.4 | 7,550.3 | 7,449.7 | 30.1 | 32.2 | -102.63 | 707.3 | -849.2 | 318.6 | 260.5 | 58.11 | 5.482 | |
| 7,600.0 | 7,520.2 | 7,570.1 | 7,469.2 | 30.2 | 32.3 | -103.78 | 709.6 | -851.9 | 326.0 | 268.1 | 57.95 | 5.626 | |
| 7,625.0 | 7,541.4 | 7,590.5 | 7,489.3 | 30.2 | 32.4 | -104.97 | 711.8 | -854.8 | 334.3 | 276.5 | 57.79 | 5.785 | |
| 7,650.0 | 7,561.9 | 7,611.0 | 7,509.4 | 30.2 | 32.5 | -106.14 | 714.0 | -857.5 | 343.4 | 285.8 | 57.64 | 5.958 | |
| 7,675.0 | 7,581.5 | 7,630.6 | 7,528.8 | 30.2 | 32.6 | -107.18 | 716.0 | -860.0 | 353.4 | 295.9 | 57.49 | 6.146 | |
| 7,700.0 | 7,600.4 | 7,649.4 | 7,547.4 | 30.2 | 32.7 | -108.06 | 717.9 | -862.3 | 364.2 | 306.8 | 57.36 | 6.349 | |
| 7,725.0 | 7,618.4 | 7,667.3 | 7,565.1 | 30.2 | 32.8 | -108.75 | 719.6 | -864.4 | 376.0 | 318.7 | 57.24 | 6.568 | |
| 7,750.0 | 7,635.4 | 7,684.3 | 7,581.9 | 30.2 | 32.8 | -109.23 | 721.2 | -866.3 | 388.6 | 331.5 | 57.14 | 6.801 | |
| 7,775.0 | 7,651.4 | 7,700.3 | 7,597.7 | 30.2 | 32.9 | -109.46 | 722.6 | -868.1 | 402.2 | 345.2 | 57.06 | 7.049 | |
| 7,800.0 | 7,666.5 | 7,715.2 | 7,612.4 | 30.2 | 33.0 | -109.44 | 723.8 | -869.6 | 416.7 | 359.7 | 56.99 | 7.312 | |
| 7,825.0 | 7,680.4 | 7,728.9 | 7,626.1 | 30.2 | 33.0 | -109.12 | 724.9 | -871.0 | 432.1 | 375.2 | 56.94 | 7.589 | |
| 7,850.0 | 7,693.3 | 7,741.5 | 7,638.6 | 30.2 | 33.1 | -108.47 | 725.9 | -872.3 | 448.4 | 391.5 | 56.91 | 7.878 | |
| 7,875.0 | 7,705.0 | 7,752.9 | 7,649.9 | 30.2 | 33.1 | -107.47 | 726.8 | -873.3 | 465.4 | 408.5 | 56.90 | 8.180 | |
| 7,900.0 | 7,715.5 | 7,763.0 | 7,659.9 | 30.2 | 33.1 | -106.07 | 727.5 | -874.2 | 483.3 | 426.4 | 56.90 | 8.494 | |
| 7,925.0 | 7,724.9 | 7,771.7 | 7,668.6 | 30.2 | 33.2 | -104.24 | 728.1 | -875.0 | 501.8 | 444.9 | 56.91 | 8.817 | |
| 7,950.0 | 7,733.0 | 7,779.1 | 7,675.9 | 30.2 | 33.2 | -101.94 | 728.6 | -875.7 | 520.9 | 464.0 | 56.93 | 9.151 | |
| 7,975.0 | 7,739.9 | 7,785.0 | 7,681.8 | 30.3 | 33.2 | -99.13 | 729.0 | -876.2 | 540.7 | 483.7 | 56.96 | 9.493 | |

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| | | | |
|---|---|---|---|
| **Company:** | NEW MEXICO | **Local Co-ordinate Reference:** | Well DONNIE BRASCO FED COM 173H |
| **Project:** | (SP) EDDY | **TVD Reference:** | KB @ 3335.0usft |
| **Reference Site:** | DONNIE BRASCO | **MD Reference:** | KB @ 3335.0usft |
| **Site Error:** | 0.0 usft | **North Reference:** | Grid |
| **Reference Well:** | DONNIE BRASCO FED COM 173H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.0 usft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | OWB | **Database:** | Compass_17 |
| **Reference Design:** | PWP0 | **Offset TVD Reference:** | Offset Datum |

**Offset Design:** DONNIE BRASCO - DONNIE BRASCO FED COM 133H - OWB - PWP0

**Offset Site Error:** 0.0 usft

**Survey Program:** 0-MWD

**Offset Well Error:** 0.0 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 Centre +N/-S (usft) | Offset Wellbore Centre +E/-W (usft) | Distance Between Centres (usft) | Distance Between Ellipses (usft) | Rule Assigned: Minimum Separation (usft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8,000.0 | 7,745.5 | 7,789.4 | 7,686.1 | 30.3 | 33.3 | -95.78 | 729.3 | -876.5 | 560.9 | 503.9 | 57.00 | 9.842 | |
| 8,025.0 | 7,749.8 | 7,792.2 | 7,689.0 | 30.4 | 33.3 | -91.88 | 729.5 | -876.8 | 581.6 | 524.6 | 57.04 | 10.197 | |
| 8,050.0 | 7,752.8 | 7,793.5 | 7,690.2 | 30.4 | 33.3 | -87.45 | 729.6 | -876.9 | 602.6 | 545.5 | 57.08 | 10.558 | |
| 8,075.0 | 7,754.5 | 7,793.1 | 7,689.8 | 30.5 | 33.3 | -82.54 | 729.6 | -876.8 | 623.9 | 566.8 | 57.12 | 10.922 | |
| 8,095.4 | 7,755.0 | 7,791.5 | 7,688.2 | 30.5 | 33.3 | -78.25 | 729.5 | -876.7 | 641.4 | 584.2 | 57.16 | 11.221 | |
| 8,100.0 | 7,755.0 | 7,791.0 | 7,687.8 | 30.5 | 33.3 | -78.16 | 729.4 | -876.7 | 645.3 | 588.2 | 57.16 | 11.289 | |
| 8,200.0 | 7,755.0 | 7,780.1 | 7,676.9 | 30.9 | 33.2 | -76.29 | 728.7 | -875.7 | 733.2 | 675.8 | 57.36 | 12.781 | |
| 8,300.0 | 7,755.0 | 7,768.4 | 7,665.3 | 31.5 | 33.2 | -74.31 | 727.9 | -874.7 | 823.7 | 766.1 | 57.58 | 14.307 | |
| 8,400.0 | 7,755.0 | 9,299.3 | 8,532.0 | 32.2 | 36.1 | -156.95 | 745.6 | -20.7 | 844.4 | 808.3 | 36.09 | 23.398 | |
| 8,500.0 | 7,755.0 | 9,399.3 | 8,532.0 | 33.2 | 37.0 | -156.95 | 746.3 | 79.3 | 844.4 | 807.4 | 37.03 | 22.802 | |
| 8,600.0 | 7,755.0 | 9,499.3 | 8,532.0 | 34.3 | 38.1 | -156.96 | 747.0 | 179.3 | 844.4 | 806.3 | 38.10 | 22.163 | |
| 8,700.0 | 7,755.0 | 9,599.3 | 8,532.0 | 35.5 | 39.2 | -156.96 | 747.7 | 279.3 | 844.4 | 805.1 | 39.28 | 21.497 | |
| 8,800.0 | 7,755.0 | 9,699.3 | 8,532.0 | 36.9 | 40.5 | -156.96 | 748.4 | 379.3 | 844.4 | 803.8 | 40.56 | 20.816 | |
| 8,900.0 | 7,755.0 | 9,799.3 | 8,532.0 | 38.3 | 41.9 | -156.96 | 749.1 | 479.3 | 844.4 | 802.4 | 41.94 | 20.131 | |
| 9,000.0 | 7,755.0 | 9,899.3 | 8,532.0 | 39.9 | 43.4 | -156.96 | 749.8 | 579.3 | 844.4 | 800.9 | 43.41 | 19.451 | |
| 9,100.0 | 7,755.0 | 9,999.3 | 8,532.0 | 41.5 | 45.0 | -156.96 | 750.5 | 679.3 | 844.3 | 799.4 | 44.95 | 18.784 | |
| 9,200.0 | 7,755.0 | 10,099.3 | 8,532.0 | 43.2 | 46.7 | -156.96 | 751.2 | 779.3 | 844.3 | 797.8 | 46.56 | 18.133 | |
| 9,300.0 | 7,755.0 | 10,199.3 | 8,532.0 | 44.9 | 48.4 | -156.96 | 751.9 | 879.3 | 844.3 | 796.1 | 48.24 | 17.504 | |
| 9,400.0 | 7,755.0 | 10,299.3 | 8,532.0 | 46.8 | 50.1 | -156.96 | 752.6 | 979.3 | 844.3 | 794.4 | 49.97 | 16.898 | |
| 9,500.0 | 7,755.0 | 10,399.3 | 8,532.0 | 48.6 | 52.0 | -156.96 | 753.3 | 1,079.3 | 844.3 | 792.6 | 51.75 | 16.317 | |
| 9,600.0 | 7,755.0 | 10,499.3 | 8,532.0 | 50.6 | 53.8 | -156.97 | 754.0 | 1,179.3 | 844.3 | 790.7 | 53.57 | 15.760 | |
| 9,700.0 | 7,755.0 | 10,599.3 | 8,532.0 | 52.5 | 55.7 | -156.97 | 754.7 | 1,279.3 | 844.3 | 788.9 | 55.44 | 15.230 | |
| 9,800.0 | 7,755.0 | 10,699.3 | 8,532.0 | 54.5 | 57.7 | -156.97 | 755.4 | 1,379.3 | 844.3 | 787.0 | 57.34 | 14.724 | |
| 9,900.0 | 7,755.0 | 10,799.3 | 8,532.0 | 56.6 | 59.7 | -156.97 | 756.2 | 1,479.3 | 844.3 | 785.0 | 59.28 | 14.243 | |
| 10,000.0 | 7,755.0 | 10,899.3 | 8,532.0 | 58.6 | 61.7 | -156.97 | 756.9 | 1,579.3 | 844.3 | 783.0 | 61.24 | 13.786 | |
| 10,100.0 | 7,755.0 | 10,999.3 | 8,532.0 | 60.7 | 63.7 | -156.97 | 757.6 | 1,679.3 | 844.3 | 781.0 | 63.24 | 13.351 | |
| 10,200.0 | 7,755.0 | 11,099.3 | 8,532.0 | 62.8 | 65.8 | -156.97 | 758.3 | 1,779.3 | 844.3 | 779.0 | 65.26 | 12.938 | |
| 10,300.0 | 7,755.0 | 11,199.3 | 8,532.0 | 64.9 | 67.9 | -156.97 | 759.0 | 1,879.3 | 844.3 | 777.0 | 67.30 | 12.545 | |
| 10,400.0 | 7,755.0 | 11,299.3 | 8,532.0 | 67.1 | 70.0 | -156.97 | 759.7 | 1,979.3 | 844.3 | 774.9 | 69.36 | 12.172 | |
| 10,500.0 | 7,755.0 | 11,399.3 | 8,532.0 | 69.2 | 72.1 | -156.98 | 760.4 | 2,079.3 | 844.3 | 772.8 | 71.44 | 11.818 | |
| 10,600.0 | 7,755.0 | 11,499.3 | 8,532.0 | 71.4 | 74.2 | -156.98 | 761.1 | 2,179.3 | 844.2 | 770.7 | 73.54 | 11.480 | |
| 10,700.0 | 7,755.0 | 11,599.3 | 8,532.0 | 73.6 | 76.4 | -156.98 | 761.8 | 2,279.3 | 844.2 | 768.6 | 75.65 | 11.160 | |
| 10,800.0 | 7,755.0 | 11,699.3 | 8,532.0 | 75.8 | 78.6 | -156.98 | 762.5 | 2,379.3 | 844.2 | 766.5 | 77.78 | 10.854 | |
| 10,900.0 | 7,755.0 | 11,799.3 | 8,532.0 | 78.0 | 80.7 | -156.98 | 763.2 | 2,479.3 | 844.2 | 764.3 | 79.92 | 10.563 | |
| 11,000.0 | 7,755.0 | 11,899.3 | 8,532.0 | 80.3 | 82.9 | -156.98 | 763.9 | 2,579.3 | 844.2 | 762.1 | 82.07 | 10.286 | |
| 11,100.0 | 7,755.0 | 11,999.3 | 8,532.0 | 82.5 | 85.1 | -156.98 | 764.6 | 2,679.2 | 844.2 | 760.0 | 84.24 | 10.022 | |
| 11,200.0 | 7,755.0 | 12,099.3 | 8,532.0 | 84.7 | 87.4 | -156.98 | 765.3 | 2,779.2 | 844.2 | 757.8 | 86.41 | 9.769 | |
| 11,300.0 | 7,755.0 | 12,199.3 | 8,532.0 | 87.0 | 89.6 | -156.98 | 766.0 | 2,879.2 | 844.2 | 755.6 | 88.60 | 9.528 | |
| 11,400.0 | 7,755.0 | 12,299.3 | 8,532.0 | 89.3 | 91.8 | -156.99 | 766.7 | 2,979.2 | 844.2 | 753.4 | 90.79 | 9.298 | |
| 11,500.0 | 7,755.0 | 12,399.3 | 8,532.0 | 91.5 | 94.1 | -156.99 | 767.4 | 3,079.2 | 844.2 | 751.2 | 92.99 | 9.078 | |
| 11,600.0 | 7,755.0 | 12,499.3 | 8,532.0 | 93.8 | 96.3 | -156.99 | 768.1 | 3,179.2 | 844.2 | 749.0 | 95.20 | 8.867 | |
| 11,700.0 | 7,755.0 | 12,599.3 | 8,532.0 | 96.1 | 98.6 | -156.99 | 768.8 | 3,279.2 | 844.2 | 746.8 | 97.42 | 8.665 | |
| 11,800.0 | 7,755.0 | 12,699.3 | 8,532.0 | 98.4 | 100.9 | -156.99 | 769.5 | 3,379.2 | 844.2 | 744.5 | 99.64 | 8.472 | |
| 11,900.0 | 7,755.0 | 12,799.3 | 8,532.0 | 100.7 | 103.1 | -156.99 | 770.2 | 3,479.2 | 844.2 | 742.3 | 101.87 | 8.286 | |
| 12,000.0 | 7,755.0 | 12,899.3 | 8,532.0 | 103.0 | 105.4 | -156.99 | 770.9 | 3,579.2 | 844.2 | 740.0 | 104.11 | 8.108 | |
| 12,100.0 | 7,755.0 | 12,999.3 | 8,532.0 | 105.3 | 107.7 | -156.99 | 771.6 | 3,679.2 | 844.1 | 737.8 | 106.35 | 7.937 | |
| 12,200.0 | 7,755.0 | 13,099.3 | 8,532.0 | 107.6 | 110.0 | -156.99 | 772.4 | 3,779.2 | 844.1 | 735.5 | 108.60 | 7.773 | |
| 12,300.0 | 7,755.0 | 13,199.3 | 8,532.0 | 109.9 | 112.3 | -157.00 | 773.1 | 3,879.2 | 844.1 | 733.3 | 110.85 | 7.615 | |
| 12,400.0 | 7,755.0 | 13,299.3 | 8,532.0 | 112.3 | 114.6 | -157.00 | 773.8 | 3,979.2 | 844.1 | 731.0 | 113.10 | 7.463 | |
| 12,500.0 | 7,755.0 | 13,399.3 | 8,532.0 | 114.6 | 116.9 | -157.00 | 774.5 | 4,079.2 | 844.1 | 728.8 | 115.36 | 7.317 | |
| 12,600.0 | 7,755.0 | 13,499.3 | 8,532.0 | 116.9 | 119.2 | -157.00 | 775.2 | 4,179.2 | 844.1 | 726.5 | 117.63 | 7.176 | |
| 12,700.0 | 7,755.0 | 13,599.3 | 8,532.0 | 119.2 | 121.5 | -157.00 | 775.9 | 4,279.2 | 844.1 | 724.2 | 119.89 | 7.040 | |

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| | | | |
|---|---|---|---|
| **Company:** | NEW MEXICO | **Local Co-ordinate Reference:** | Well DONNIE BRASCO FED COM 173H |
| **Project:** | (SP) EDDY | **TVD Reference:** | KB @ 3335.0usft |
| **Reference Site:** | DONNIE BRASCO | **MD Reference:** | KB @ 3335.0usft |
| **Site Error:** | 0.0 usft | **North Reference:** | Grid |
| **Reference Well:** | DONNIE BRASCO FED COM 173H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.0 usft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | OWB | **Database:** | Compass_17 |
| **Reference Design:** | PWP0 | **Offset TVD Reference:** | Offset Datum |

**Offset Design:** DONNIE BRASCO - DONNIE BRASCO FED COM 133H - OWB - PWP0

**Offset Site Error:** 0.0 usft

**Survey Program:** 0-MWD

**Offset Well Error:** 0.0 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 Centre +N/-S (usft) | Offset Wellbore Centre +E/-W (usft) | Distance Between Centres (usft) | Distance Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12,777.9 | 7,755.0 | 13,677.2 | 8,532.0 | 121.0 | 123.3 | -157.00 | 776.4 | 4,357.1 | 844.1 | 722.4 | 121.66 | 6.938 | |
| 12,778.4 | 7,755.0 | 13,677.7 | 8,532.0 | 121.1 | 123.3 | -157.00 | 776.4 | 4,357.6 | 844.1 | 722.4 | 121.67 | 6.937 | |
| 12,788.0 | 7,755.0 | 13,687.3 | 8,532.0 | 121.3 | 123.6 | -157.00 | 776.5 | 4,367.2 | 844.1 | 722.2 | 121.90 | 6.925 | |
| 12,800.0 | 7,755.0 | 13,700.4 | 8,532.0 | 121.6 | 123.9 | -157.00 | 776.6 | 4,380.3 | 844.1 | 721.9 | 122.19 | 6.908 | |
| 12,900.0 | 7,755.0 | 13,800.4 | 8,532.0 | 123.9 | 126.2 | -157.00 | 776.9 | 4,480.3 | 844.1 | 719.6 | 124.47 | 6.782 | |
| 13,000.0 | 7,755.0 | 13,900.4 | 8,532.0 | 126.2 | 128.5 | -157.00 | 777.3 | 4,580.3 | 844.1 | 717.4 | 126.75 | 6.660 | |
| 13,100.0 | 7,755.0 | 14,000.4 | 8,532.0 | 128.6 | 130.8 | -157.00 | 777.7 | 4,680.3 | 844.1 | 715.1 | 129.03 | 6.542 | |
| 13,200.0 | 7,755.0 | 14,100.4 | 8,532.0 | 130.9 | 133.2 | -157.00 | 778.0 | 4,780.3 | 844.1 | 712.8 | 131.32 | 6.428 | |
| 13,300.0 | 7,755.0 | 14,200.4 | 8,532.0 | 133.3 | 135.5 | -157.00 | 778.4 | 4,880.3 | 844.1 | 710.5 | 133.61 | 6.318 | |
| 13,400.0 | 7,755.0 | 14,300.4 | 8,532.0 | 135.6 | 137.8 | -157.00 | 778.8 | 4,980.3 | 844.1 | 708.2 | 135.90 | 6.211 | |
| 13,500.0 | 7,755.0 | 14,400.4 | 8,532.0 | 138.0 | 140.2 | -157.00 | 779.1 | 5,080.3 | 844.1 | 705.9 | 138.20 | 6.108 | |
| 13,600.0 | 7,755.0 | 14,500.4 | 8,532.0 | 140.3 | 142.5 | -157.00 | 779.5 | 5,180.3 | 844.1 | 703.6 | 140.50 | 6.008 | |
| 13,700.0 | 7,755.0 | 14,600.4 | 8,532.0 | 142.7 | 144.9 | -157.00 | 779.9 | 5,280.3 | 844.1 | 701.3 | 142.80 | 5.911 | |
| 13,800.0 | 7,755.0 | 14,700.4 | 8,532.0 | 145.0 | 147.2 | -157.00 | 780.3 | 5,380.3 | 844.1 | 699.0 | 145.10 | 5.818 | |
| 13,900.0 | 7,755.0 | 14,800.4 | 8,532.0 | 147.4 | 149.5 | -157.00 | 780.6 | 5,480.3 | 844.1 | 696.7 | 147.40 | 5.727 | |
| 14,000.0 | 7,755.0 | 14,900.4 | 8,532.0 | 149.8 | 151.9 | -157.00 | 781.0 | 5,580.3 | 844.1 | 694.4 | 149.71 | 5.638 | |
| 14,100.0 | 7,755.0 | 15,000.4 | 8,532.0 | 152.1 | 154.2 | -157.00 | 781.4 | 5,680.3 | 844.1 | 692.1 | 152.02 | 5.553 | |
| 14,114.4 | 7,755.0 | 15,014.8 | 8,532.0 | 152.5 | 154.6 | -157.00 | 781.4 | 5,694.7 | 844.1 | 691.8 | 152.35 | 5.541 | |
| 14,128.3 | 7,755.0 | 15,029.4 | 8,532.0 | 152.8 | 154.9 | -156.99 | 781.5 | 5,709.3 | 844.1 | 691.4 | 152.69 | 5.528 | |
| 14,200.0 | 7,755.0 | 15,102.0 | 8,532.0 | 154.5 | 156.6 | -156.99 | 781.4 | 5,781.9 | 844.1 | 689.8 | 154.36 | 5.469 | |
| 14,300.0 | 7,755.0 | 15,202.0 | 8,532.0 | 156.8 | 159.0 | -156.99 | 781.3 | 5,881.9 | 844.1 | 687.5 | 156.68 | 5.388 | |
| 14,400.0 | 7,755.0 | 15,302.0 | 8,532.0 | 159.2 | 161.3 | -156.99 | 781.2 | 5,981.9 | 844.1 | 685.2 | 158.99 | 5.309 | |
| 14,500.0 | 7,755.0 | 15,402.0 | 8,532.0 | 161.6 | 163.7 | -156.99 | 781.0 | 6,081.9 | 844.1 | 682.8 | 161.30 | 5.233 | |
| 14,600.0 | 7,755.0 | 15,502.0 | 8,532.0 | 164.0 | 166.1 | -156.99 | 780.9 | 6,181.9 | 844.1 | 680.5 | 163.62 | 5.159 | |
| 14,700.0 | 7,755.0 | 15,602.0 | 8,532.0 | 166.3 | 168.4 | -156.99 | 780.8 | 6,281.9 | 844.1 | 678.2 | 165.94 | 5.087 | |
| 14,800.0 | 7,755.0 | 15,702.0 | 8,532.0 | 168.7 | 170.8 | -156.99 | 780.7 | 6,381.9 | 844.1 | 675.9 | 168.26 | 5.017 | |
| 14,900.0 | 7,755.0 | 15,802.0 | 8,532.0 | 171.1 | 173.1 | -156.99 | 780.6 | 6,481.9 | 844.1 | 673.6 | 170.58 | 4.949 | |
| 15,000.0 | 7,755.0 | 15,902.0 | 8,532.0 | 173.4 | 175.5 | -156.99 | 780.5 | 6,581.9 | 844.1 | 671.2 | 172.90 | 4.882 | |
| 15,100.0 | 7,755.0 | 16,002.0 | 8,532.0 | 175.8 | 177.9 | -156.99 | 780.3 | 6,681.9 | 844.1 | 668.9 | 175.23 | 4.817 | |
| 15,200.0 | 7,755.0 | 16,102.0 | 8,532.0 | 178.2 | 180.2 | -156.99 | 780.2 | 6,781.9 | 844.1 | 666.6 | 177.55 | 4.754 | |
| 15,300.0 | 7,755.0 | 16,202.0 | 8,532.0 | 180.6 | 182.6 | -156.99 | 780.1 | 6,881.9 | 844.1 | 664.3 | 179.88 | 4.693 | |
| 15,400.0 | 7,755.0 | 16,302.0 | 8,532.0 | 182.9 | 185.0 | -156.99 | 780.0 | 6,981.9 | 844.1 | 661.9 | 182.20 | 4.633 | |
| 15,500.0 | 7,755.0 | 16,402.0 | 8,532.0 | 185.3 | 187.4 | -156.99 | 779.9 | 7,081.9 | 844.2 | 659.6 | 184.53 | 4.575 | |
| 15,600.0 | 7,755.0 | 16,502.0 | 8,532.0 | 187.7 | 189.7 | -156.99 | 779.8 | 7,181.9 | 844.2 | 657.3 | 186.86 | 4.518 | |
| 15,700.0 | 7,755.0 | 16,602.0 | 8,532.0 | 190.1 | 192.1 | -156.99 | 779.6 | 7,281.9 | 844.2 | 655.0 | 189.19 | 4.462 | |
| 15,800.0 | 7,755.0 | 16,702.0 | 8,532.0 | 192.5 | 194.5 | -156.99 | 779.5 | 7,381.9 | 844.2 | 652.6 | 191.52 | 4.408 | |
| 15,900.0 | 7,755.0 | 16,802.0 | 8,532.0 | 194.8 | 196.8 | -156.99 | 779.4 | 7,481.9 | 844.2 | 650.3 | 193.85 | 4.355 | |
| 16,000.0 | 7,755.0 | 16,902.0 | 8,532.0 | 197.2 | 199.2 | -156.99 | 779.3 | 7,581.9 | 844.2 | 648.0 | 196.19 | 4.303 | |
| 16,100.0 | 7,755.0 | 17,002.0 | 8,532.0 | 199.6 | 201.6 | -156.99 | 779.2 | 7,681.9 | 844.2 | 645.6 | 198.52 | 4.252 | |
| 16,200.0 | 7,755.0 | 17,102.0 | 8,532.0 | 202.0 | 204.0 | -156.99 | 779.0 | 7,781.9 | 844.2 | 643.3 | 200.85 | 4.203 | |
| 16,300.0 | 7,755.0 | 17,202.0 | 8,532.0 | 204.4 | 206.4 | -156.99 | 778.9 | 7,881.9 | 844.2 | 641.0 | 203.19 | 4.155 | |
| 16,400.0 | 7,755.0 | 17,302.0 | 8,532.0 | 206.8 | 208.7 | -156.99 | 778.8 | 7,981.9 | 844.2 | 638.6 | 205.52 | 4.107 | |
| 16,500.0 | 7,755.0 | 17,402.0 | 8,532.0 | 209.1 | 211.1 | -156.99 | 778.7 | 8,081.9 | 844.2 | 636.3 | 207.86 | 4.061 | |
| 16,600.0 | 7,755.0 | 17,502.0 | 8,532.0 | 211.5 | 213.5 | -156.99 | 778.6 | 8,181.9 | 844.2 | 634.0 | 210.20 | 4.016 | |
| 16,700.0 | 7,755.0 | 17,602.0 | 8,532.0 | 213.9 | 215.9 | -156.99 | 778.5 | 8,281.9 | 844.2 | 631.6 | 212.54 | 3.972 | |
| 16,800.0 | 7,755.0 | 17,702.0 | 8,532.0 | 216.3 | 218.3 | -156.99 | 778.3 | 8,381.9 | 844.2 | 629.3 | 214.87 | 3.929 | |
| 16,900.0 | 7,755.0 | 17,802.0 | 8,532.0 | 218.7 | 220.6 | -156.99 | 778.2 | 8,481.9 | 844.2 | 626.9 | 217.21 | 3.886 | |
| 17,000.0 | 7,755.0 | 17,902.0 | 8,532.0 | 221.1 | 223.0 | -156.99 | 778.1 | 8,581.9 | 844.2 | 624.6 | 219.55 | 3.845 | |
| 17,100.0 | 7,755.0 | 18,002.0 | 8,532.0 | 223.5 | 225.4 | -156.99 | 778.0 | 8,681.9 | 844.2 | 622.3 | 221.90 | 3.804 | |
| 17,200.0 | 7,755.0 | 18,102.0 | 8,532.0 | 225.9 | 227.8 | -156.99 | 777.9 | 8,781.9 | 844.2 | 619.9 | 224.24 | 3.765 | |
| 17,300.0 | 7,755.0 | 18,202.0 | 8,532.0 | 228.2 | 230.2 | -156.99 | 777.8 | 8,881.9 | 844.2 | 617.6 | 226.58 | 3.726 | |
| 17,400.0 | 7,755.0 | 18,302.0 | 8,532.0 | 230.6 | 232.6 | -156.99 | 777.6 | 8,981.9 | 844.2 | 615.2 | 228.92 | 3.688 | |

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

| | | | |
|---|---|---|---|
| **Company:** | NEW MEXICO | **Local Co-ordinate Reference:** | Well DONNIE BRASCO FED COM 173H |
| **Project:** | (SP) EDDY | **TVD Reference:** | KB @ 3335.0usft |
| **Reference Site:** | DONNIE BRASCO | **MD Reference:** | KB @ 3335.0usft |
| **Site Error:** | 0.0 usft | **North Reference:** | Grid |
| **Reference Well:** | DONNIE BRASCO FED COM 173H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.0 usft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | OWB | **Database:** | Compass_17 |
| **Reference Design:** | PWP0 | **Offset TVD Reference:** | Offset Datum |

**Offset Design:** DONNIE BRASCO - DONNIE BRASCO FED COM 133H - OWB - PWP0

**Offset Site Error:** 0.0 usft

**Survey Program:** 0-MWD

**Rule Assigned:**

**Offset Well Error:** 0.0 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 Centre +N/-S (usft) | Offset Wellbore Centre +E/-W (usft) | Distance Between Centres (usft) | Distance Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 17,500.0 | 7,755.0 | 18,402.0 | 8,532.0 | 233.0 | 234.9 | -156.99 | 777.5 | 9,081.9 | 844.2 | 612.9 | 231.26 | 3.650 | |
| 17,600.0 | 7,755.0 | 18,502.0 | 8,532.0 | 235.4 | 237.3 | -156.99 | 777.4 | 9,181.9 | 844.2 | 610.6 | 233.61 | 3.614 | |
| 17,700.0 | 7,755.0 | 18,602.0 | 8,532.0 | 237.8 | 239.7 | -156.99 | 777.3 | 9,281.9 | 844.2 | 608.2 | 235.95 | 3.578 | |
| 17,800.0 | 7,755.0 | 18,702.0 | 8,532.0 | 240.2 | 242.1 | -156.99 | 777.2 | 9,381.9 | 844.2 | 605.9 | 238.30 | 3.543 | |
| 17,900.0 | 7,755.0 | 18,802.0 | 8,532.0 | 242.6 | 244.5 | -156.99 | 777.1 | 9,481.9 | 844.2 | 603.5 | 240.64 | 3.508 | |
| 18,000.0 | 7,755.0 | 18,902.0 | 8,532.0 | 245.0 | 246.9 | -156.99 | 776.9 | 9,581.9 | 844.2 | 601.2 | 242.99 | 3.474 | |
| 18,100.0 | 7,755.0 | 19,002.0 | 8,532.0 | 247.4 | 249.3 | -156.99 | 776.8 | 9,681.9 | 844.2 | 598.8 | 245.33 | 3.441 | |
| 18,200.0 | 7,755.0 | 19,102.0 | 8,532.0 | 249.8 | 251.6 | -156.99 | 776.7 | 9,781.9 | 844.2 | 596.5 | 247.68 | 3.408 | |
| 18,300.0 | 7,755.0 | 19,202.0 | 8,532.0 | 252.2 | 254.0 | -156.99 | 776.6 | 9,881.9 | 844.2 | 594.1 | 250.02 | 3.376 | |
| 18,400.0 | 7,755.0 | 19,302.0 | 8,532.0 | 254.6 | 256.4 | -156.99 | 776.5 | 9,981.9 | 844.2 | 591.8 | 252.37 | 3.345 | |
| 18,500.0 | 7,755.0 | 19,402.0 | 8,532.0 | 257.0 | 258.8 | -156.99 | 776.4 | 10,081.9 | 844.2 | 589.5 | 254.72 | 3.314 | |
| 18,600.0 | 7,755.0 | 19,502.0 | 8,532.0 | 259.3 | 261.2 | -156.99 | 776.2 | 10,181.9 | 844.2 | 587.1 | 257.07 | 3.284 | |
| 18,700.0 | 7,755.0 | 19,602.0 | 8,532.0 | 261.7 | 263.6 | -156.99 | 776.1 | 10,281.9 | 844.2 | 584.8 | 259.41 | 3.254 | |
| 18,800.0 | 7,755.0 | 19,702.0 | 8,532.0 | 264.1 | 266.0 | -156.99 | 776.0 | 10,381.9 | 844.2 | 582.4 | 261.76 | 3.225 | |
| 18,900.0 | 7,755.0 | 19,802.0 | 8,532.0 | 266.5 | 268.4 | -156.99 | 775.9 | 10,481.9 | 844.2 | 580.1 | 264.11 | 3.196 | |
| 19,000.0 | 7,755.0 | 19,902.0 | 8,532.0 | 268.9 | 270.8 | -156.99 | 775.8 | 10,581.9 | 844.2 | 577.7 | 266.46 | 3.168 | |
| 19,100.0 | 7,755.0 | 20,002.0 | 8,532.0 | 271.3 | 273.2 | -156.99 | 775.6 | 10,681.9 | 844.2 | 575.4 | 268.81 | 3.140 | |
| 19,200.0 | 7,755.0 | 20,102.0 | 8,532.0 | 273.7 | 275.6 | -156.99 | 775.5 | 10,781.9 | 844.2 | 573.0 | 271.16 | 3.113 | |
| 19,300.0 | 7,755.0 | 20,202.0 | 8,532.0 | 276.1 | 277.9 | -156.99 | 775.4 | 10,881.9 | 844.2 | 570.7 | 273.51 | 3.086 | |
| 19,400.0 | 7,755.0 | 20,302.0 | 8,532.0 | 278.5 | 280.3 | -156.99 | 775.3 | 10,981.9 | 844.2 | 568.3 | 275.86 | 3.060 | |
| 19,453.0 | 7,755.0 | 20,355.0 | 8,532.0 | 279.8 | 281.6 | -156.99 | 775.2 | 11,034.9 | 844.2 | 567.1 | 277.11 | 3.046 | |
| 19,475.9 | 7,755.0 | 20,375.8 | 8,532.0 | 280.3 | 282.1 | -156.99 | 775.3 | 11,055.7 | 844.2 | 566.6 | 277.60 | 3.041 | |
| 19,480.8 | 7,755.0 | 20,380.2 | 8,532.0 | 280.4 | 282.2 | -156.99 | 775.3 | 11,060.0 | 844.2 | 566.5 | 277.71 | 3.040 | |
| 19,500.0 | 7,755.0 | 20,399.4 | 8,532.0 | 280.9 | 282.7 | -156.99 | 775.4 | 11,079.3 | 844.2 | 566.0 | 278.16 | 3.035 | |
| 19,600.0 | 7,755.0 | 20,499.4 | 8,532.0 | 283.3 | 285.1 | -156.99 | 776.1 | 11,179.3 | 844.2 | 563.7 | 280.51 | 3.009 | |
| 19,700.0 | 7,755.0 | 20,599.4 | 8,532.0 | 285.7 | 287.5 | -156.99 | 776.8 | 11,279.3 | 844.2 | 561.3 | 282.86 | 2.984 | |
| 19,800.0 | 7,755.0 | 20,699.4 | 8,532.0 | 288.1 | 289.9 | -156.99 | 777.5 | 11,379.3 | 844.2 | 559.0 | 285.21 | 2.960 | |
| 19,900.0 | 7,755.0 | 20,799.4 | 8,532.0 | 290.5 | 292.2 | -156.99 | 778.2 | 11,479.3 | 844.2 | 556.6 | 287.56 | 2.936 | |
| 20,000.0 | 7,755.0 | 20,899.4 | 8,532.0 | 292.9 | 294.6 | -156.99 | 778.8 | 11,579.3 | 844.2 | 554.3 | 289.91 | 2.912 | |
| 20,100.0 | 7,755.0 | 20,999.4 | 8,532.0 | 295.3 | 297.0 | -156.99 | 779.5 | 11,679.3 | 844.2 | 551.9 | 292.26 | 2.888 | |
| 20,200.0 | 7,755.0 | 21,099.4 | 8,532.0 | 297.7 | 299.4 | -156.99 | 780.2 | 11,779.3 | 844.2 | 549.6 | 294.62 | 2.865 | |
| 20,300.0 | 7,755.0 | 21,199.4 | 8,532.0 | 300.1 | 301.8 | -156.99 | 780.9 | 11,879.2 | 844.2 | 547.2 | 296.97 | 2.843 | |
| 20,400.0 | 7,755.0 | 21,299.4 | 8,532.0 | 302.5 | 304.2 | -156.99 | 781.6 | 11,979.2 | 844.2 | 544.8 | 299.32 | 2.820 | |
| 20,500.0 | 7,755.0 | 21,399.4 | 8,532.0 | 304.9 | 306.6 | -156.99 | 782.3 | 12,079.2 | 844.2 | 542.5 | 301.67 | 2.798 | |
| 20,600.0 | 7,755.0 | 21,499.4 | 8,532.0 | 307.3 | 309.0 | -156.99 | 782.9 | 12,179.2 | 844.2 | 540.1 | 304.03 | 2.777 | |
| 20,686.5 | 7,755.0 | 21,585.9 | 8,532.0 | 309.3 | 311.1 | -156.99 | 783.5 | 12,265.7 | 844.2 | 538.1 | 306.06 | 2.758 SF | |



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| | | | |
|---|---|---|---|
| **Company:** | NEW MEXICO | **Local Co-ordinate Reference:** | Well DONNIE BRASCO FED COM 173H |
| **Project:** | (SP) EDDY | **TVD Reference:** | KB @ 3335.0usft |
| **Reference Site:** | DONNIE BRASCO | **MD Reference:** | KB @ 3335.0usft |
| **Site Error:** | 0.0 usft | **North Reference:** | Grid |
| **Reference Well:** | DONNIE BRASCO FED COM 173H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.0 usft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | OWB | **Database:** | Compass_17 |
| **Reference Design:** | PWP0 | **Offset TVD Reference:** | Offset Datum |

**Offset Design:** DONNIE BRASCO - DONNIE BRASCO FED COM 134H - OWB - PWP0

**Offset Site Error:** 0.0 usft

**Survey Program:** 0-MWD

**Offset Well Error:** 0.0 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 Centre +N/-S (usft) | Offset Wellbore Centre +E/-W (usft) | Rule Assigned: Distance Between Centres (usft) | Distance Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 154.49 | -220.0 | 105.0 | 243.8 | | | | |
| 100.0 | 100.0 | 100.0 | 100.0 | 0.3 | 0.3 | 154.49 | -220.0 | 105.0 | 243.8 | 243.3 | 0.50 | 485.737 | |
| 200.0 | 200.0 | 200.0 | 200.0 | 0.6 | 0.6 | 154.49 | -220.0 | 105.0 | 243.8 | 242.6 | 1.22 | 200.010 | |
| 300.0 | 300.0 | 300.0 | 300.0 | 1.0 | 1.0 | 154.49 | -220.0 | 105.0 | 243.8 | 241.8 | 1.94 | 125.932 | |
| 400.0 | 400.0 | 400.0 | 400.0 | 1.3 | 1.3 | 154.49 | -220.0 | 105.0 | 243.8 | 241.1 | 2.65 | 91.896 | |
| 500.0 | 500.0 | 500.0 | 500.0 | 1.7 | 1.7 | 154.49 | -220.0 | 105.0 | 243.8 | 240.4 | 3.37 | 72.344 | |
| 600.0 | 600.0 | 600.0 | 600.0 | 2.0 | 2.0 | 154.49 | -220.0 | 105.0 | 243.8 | 239.7 | 4.09 | 59.652 | |
| 700.0 | 700.0 | 700.0 | 700.0 | 2.4 | 2.4 | 154.49 | -220.0 | 105.0 | 243.8 | 239.0 | 4.80 | 50.749 | |
| 800.0 | 800.0 | 800.0 | 800.0 | 2.8 | 2.8 | 154.49 | -220.0 | 105.0 | 243.8 | 238.3 | 5.52 | 44.158 | |
| 900.0 | 900.0 | 900.0 | 900.0 | 3.1 | 3.1 | 154.49 | -220.0 | 105.0 | 243.8 | 237.5 | 6.24 | 39.082 | |
| 1,000.0 | 1,000.0 | 1,000.0 | 1,000.0 | 3.5 | 3.5 | 154.49 | -220.0 | 105.0 | 243.8 | 236.8 | 6.95 | 35.053 | CC, ES |
| 1,100.0 | 1,100.0 | 1,101.0 | 1,101.0 | 3.8 | 3.8 | -142.42 | -220.6 | 103.3 | 244.9 | 237.3 | 7.66 | 31.981 | |
| 1,200.0 | 1,199.8 | 1,201.9 | 1,201.8 | 4.2 | 4.2 | -141.90 | -222.3 | 98.3 | 248.5 | 240.1 | 8.35 | 29.742 | |
| 1,300.0 | 1,299.5 | 1,302.6 | 1,302.1 | 4.5 | 4.5 | -141.06 | -225.1 | 89.9 | 254.4 | 245.3 | 9.06 | 28.078 | |
| 1,400.0 | 1,398.7 | 1,403.0 | 1,401.7 | 4.9 | 4.9 | -139.95 | -229.0 | 78.2 | 262.7 | 252.9 | 9.78 | 26.863 | |
| 1,443.1 | 1,441.3 | 1,446.1 | 1,444.3 | 5.1 | 5.0 | -139.40 | -231.0 | 72.1 | 267.1 | 257.0 | 10.10 | 26.450 | |
| 1,500.0 | 1,497.6 | 1,502.8 | 1,500.2 | 5.3 | 5.3 | -138.66 | -233.9 | 63.4 | 273.1 | 262.6 | 10.52 | 25.967 | |
| 1,600.0 | 1,596.4 | 1,602.0 | 1,598.1 | 5.7 | 5.6 | -137.41 | -239.1 | 48.0 | 283.9 | 272.6 | 11.27 | 25.187 | |
| 1,700.0 | 1,695.2 | 1,701.2 | 1,696.0 | 6.1 | 6.0 | -136.24 | -244.2 | 32.6 | 294.7 | 282.7 | 12.04 | 24.486 | |
| 1,800.0 | 1,794.0 | 1,800.5 | 1,793.9 | 6.5 | 6.4 | -135.16 | -249.4 | 17.2 | 305.7 | 292.9 | 12.81 | 23.857 | |
| 1,900.0 | 1,892.8 | 1,899.7 | 1,891.8 | 6.9 | 6.8 | -134.15 | -254.6 | 1.7 | 316.7 | 303.1 | 13.60 | 23.291 | |
| 2,000.0 | 1,991.6 | 1,998.9 | 1,989.7 | 7.3 | 7.2 | -133.21 | -259.7 | -13.7 | 327.9 | 313.5 | 14.39 | 22.780 | |
| 2,100.0 | 2,090.4 | 2,098.2 | 2,087.6 | 7.7 | 7.6 | -132.34 | -264.9 | -29.1 | 339.1 | 323.9 | 15.20 | 22.318 | |
| 2,200.0 | 2,189.2 | 2,197.4 | 2,185.5 | 8.1 | 8.1 | -131.51 | -270.1 | -44.5 | 350.4 | 334.4 | 16.00 | 21.899 | |
| 2,300.0 | 2,288.0 | 2,296.6 | 2,283.4 | 8.5 | 8.5 | -130.74 | -275.2 | -59.9 | 361.8 | 345.0 | 16.82 | 21.517 | |
| 2,400.0 | 2,386.8 | 2,395.9 | 2,381.3 | 8.9 | 8.9 | -130.02 | -280.4 | -75.4 | 373.2 | 355.6 | 17.63 | 21.169 | |
| 2,500.0 | 2,485.6 | 2,495.1 | 2,479.2 | 9.3 | 9.3 | -129.34 | -285.5 | -90.8 | 384.7 | 366.3 | 18.45 | 20.850 | |
| 2,600.0 | 2,584.4 | 2,594.4 | 2,577.1 | 9.7 | 9.7 | -128.70 | -290.7 | -106.2 | 396.3 | 377.0 | 19.28 | 20.558 | |
| 2,700.0 | 2,683.2 | 2,693.6 | 2,674.9 | 10.2 | 10.2 | -128.10 | -295.9 | -121.6 | 407.9 | 387.8 | 20.10 | 20.289 | |
| 2,800.0 | 2,782.0 | 2,792.8 | 2,772.8 | 10.6 | 10.6 | -127.53 | -301.0 | -137.1 | 419.5 | 398.6 | 20.93 | 20.040 | |
| 2,900.0 | 2,880.8 | 2,892.1 | 2,870.7 | 11.0 | 11.0 | -126.99 | -306.2 | -152.5 | 431.2 | 409.4 | 21.76 | 19.811 | |
| 3,000.0 | 2,979.6 | 2,991.3 | 2,968.6 | 11.4 | 11.4 | -126.48 | -311.4 | -167.9 | 442.9 | 420.3 | 22.60 | 19.598 | |
| 3,100.0 | 3,078.5 | 3,090.5 | 3,066.5 | 11.9 | 11.9 | -125.99 | -316.5 | -183.3 | 454.6 | 431.2 | 23.43 | 19.400 | |
| 3,200.0 | 3,177.3 | 3,189.8 | 3,164.4 | 12.3 | 12.3 | -125.53 | -321.7 | -198.7 | 466.4 | 442.1 | 24.27 | 19.216 | |
| 3,300.0 | 3,276.1 | 3,289.0 | 3,262.3 | 12.7 | 12.7 | -125.09 | -326.9 | -214.2 | 478.2 | 453.1 | 25.11 | 19.044 | |
| 3,400.0 | 3,374.9 | 3,388.3 | 3,360.2 | 13.1 | 13.2 | -124.68 | -332.0 | -229.6 | 490.0 | 464.1 | 25.95 | 18.883 | |
| 3,500.0 | 3,473.7 | 3,487.5 | 3,458.1 | 13.6 | 13.6 | -124.28 | -337.2 | -245.0 | 501.9 | 475.1 | 26.79 | 18.733 | |
| 3,600.0 | 3,572.5 | 3,586.7 | 3,556.0 | 14.0 | 14.0 | -123.90 | -342.3 | -260.4 | 513.7 | 486.1 | 27.63 | 18.592 | |
| 3,700.0 | 3,671.3 | 3,686.0 | 3,653.9 | 14.4 | 14.5 | -123.54 | -347.5 | -275.9 | 525.6 | 497.1 | 28.47 | 18.459 | |
| 3,800.0 | 3,770.1 | 3,785.2 | 3,751.8 | 14.8 | 14.9 | -123.19 | -352.7 | -291.3 | 537.5 | 508.2 | 29.32 | 18.334 | |
| 3,900.0 | 3,868.9 | 3,884.4 | 3,849.7 | 15.3 | 15.3 | -122.86 | -357.8 | -306.7 | 549.5 | 519.3 | 30.16 | 18.217 | |
| 4,000.0 | 3,967.7 | 3,983.7 | 3,947.6 | 15.7 | 15.8 | -122.55 | -363.0 | -322.1 | 561.4 | 530.4 | 31.01 | 18.105 | |
| 4,100.0 | 4,066.5 | 4,082.9 | 4,045.5 | 16.1 | 16.2 | -122.24 | -368.2 | -337.5 | 573.4 | 541.5 | 31.85 | 18.000 | |
| 4,200.0 | 4,165.3 | 4,182.1 | 4,143.4 | 16.5 | 16.6 | -121.95 | -373.3 | -353.0 | 585.4 | 552.7 | 32.70 | 17.901 | |
| 4,300.0 | 4,264.1 | 4,281.4 | 4,241.3 | 17.0 | 17.1 | -121.67 | -378.5 | -368.4 | 597.4 | 563.8 | 33.55 | 17.806 | |
| 4,400.0 | 4,362.9 | 4,380.6 | 4,339.2 | 17.4 | 17.5 | -121.40 | -383.7 | -383.8 | 609.4 | 575.0 | 34.39 | 17.717 | |
| 4,500.0 | 4,461.7 | 4,479.9 | 4,437.1 | 17.8 | 18.0 | -121.14 | -388.8 | -399.2 | 621.4 | 586.1 | 35.24 | 17.631 | |
| 4,600.0 | 4,560.5 | 4,579.1 | 4,535.0 | 18.3 | 18.4 | -120.90 | -394.0 | -414.6 | 633.4 | 597.3 | 36.09 | 17.550 | |
| 4,700.0 | 4,659.4 | 4,678.3 | 4,632.8 | 18.7 | 18.8 | -120.66 | -399.1 | -430.1 | 645.5 | 608.5 | 36.94 | 17.473 | |
| 4,800.0 | 4,758.2 | 4,777.6 | 4,730.7 | 19.1 | 19.3 | -120.43 | -404.3 | -445.5 | 657.5 | 619.7 | 37.79 | 17.400 | |
| 4,900.0 | 4,857.0 | 4,876.8 | 4,828.6 | 19.6 | 19.7 | -120.21 | -409.5 | -460.9 | 669.6 | 630.9 | 38.64 | 17.329 | |
| 5,000.0 | 4,955.8 | 4,976.0 | 4,926.5 | 20.0 | 20.1 | -119.99 | -414.6 | -476.3 | 681.6 | 642.2 | 39.49 | 17.262 | |

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

| | | | |
|---|---|---|---|
| **Company:** | NEW MEXICO | **Local Co-ordinate Reference:** | Well DONNIE BRASCO FED COM 173H |
| **Project:** | (SP) EDDY | **TVD Reference:** | KB @ 3335.0usft |
| **Reference Site:** | DONNIE BRASCO | **MD Reference:** | KB @ 3335.0usft |
| **Site Error:** | 0.0 usft | **North Reference:** | Grid |
| **Reference Well:** | DONNIE BRASCO FED COM 173H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.0 usft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | OWB | **Database:** | Compass_17 |
| **Reference Design:** | PWP0 | **Offset TVD Reference:** | Offset Datum |

**Offset Design:** DONNIE BRASCO - DONNIE BRASCO FED COM 134H - OWB - PWP0

**Offset Site Error:** 0.0 usft

**Survey Program:** 0-MWD

**Offset Well Error:** 0.0 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 Centre +N/-S (usft) | Offset Wellbore Centre +E/-W (usft) | Distance Between Centres (usft) | Distance Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5,100.0 | 5,054.6 | 5,075.3 | 5,024.4 | 20.4 | 20.6 | -119.78 | -419.8 | -491.8 | 693.7 | 653.4 | 40.34 | 17.198 | |
| 5,200.0 | 5,153.4 | 5,174.5 | 5,122.3 | 20.8 | 21.0 | -119.58 | -425.0 | -507.2 | 705.8 | 664.6 | 41.19 | 17.137 | |
| 5,300.0 | 5,252.2 | 5,273.8 | 5,220.2 | 21.3 | 21.5 | -119.39 | -430.1 | -522.6 | 717.9 | 675.9 | 42.04 | 17.078 | |
| 5,400.0 | 5,351.0 | 5,373.0 | 5,318.1 | 21.7 | 21.9 | -119.21 | -435.3 | -538.0 | 730.0 | 687.1 | 42.89 | 17.021 | |
| 5,500.0 | 5,449.8 | 5,472.2 | 5,416.0 | 22.1 | 22.3 | -119.02 | -440.4 | -553.4 | 742.1 | 698.4 | 43.74 | 16.967 | |
| 5,600.0 | 5,548.6 | 5,571.5 | 5,513.9 | 22.6 | 22.8 | -118.85 | -445.6 | -568.9 | 754.3 | 709.7 | 44.59 | 16.915 | |
| 5,700.0 | 5,647.4 | 5,670.7 | 5,611.8 | 23.0 | 23.2 | -118.68 | -450.8 | -584.3 | 766.4 | 720.9 | 45.44 | 16.865 | |
| 5,800.0 | 5,746.2 | 5,769.9 | 5,709.7 | 23.4 | 23.7 | -118.52 | -455.9 | -599.7 | 778.5 | 732.2 | 46.29 | 16.817 | |
| 5,900.0 | 5,845.0 | 5,869.2 | 5,807.6 | 23.9 | 24.1 | -118.36 | -461.1 | -615.1 | 790.7 | 743.5 | 47.15 | 16.771 | |
| 6,000.0 | 5,943.8 | 5,968.4 | 5,905.5 | 24.3 | 24.5 | -118.20 | -466.3 | -630.6 | 802.8 | 754.8 | 48.00 | 16.726 | |
| 6,100.0 | 6,042.6 | 6,067.6 | 6,003.4 | 24.7 | 25.0 | -118.06 | -471.4 | -646.0 | 815.0 | 766.1 | 48.85 | 16.683 | |
| 6,200.0 | 6,141.4 | 6,166.9 | 6,101.3 | 25.2 | 25.4 | -117.91 | -476.6 | -661.4 | 827.1 | 777.4 | 49.70 | 16.642 | |
| 6,300.0 | 6,240.3 | 6,266.1 | 6,199.2 | 25.6 | 25.9 | -117.77 | -481.8 | -676.8 | 839.3 | 788.7 | 50.55 | 16.602 | |
| 6,400.0 | 6,339.1 | 6,365.4 | 6,297.1 | 26.0 | 26.3 | -117.63 | -486.9 | -692.2 | 851.4 | 800.0 | 51.41 | 16.563 | |
| 6,500.0 | 6,437.9 | 6,464.6 | 6,395.0 | 26.4 | 26.7 | -117.50 | -492.1 | -707.7 | 863.6 | 811.4 | 52.26 | 16.526 | |
| 6,600.0 | 6,536.7 | 6,563.8 | 6,492.9 | 26.9 | 27.2 | -117.37 | -497.2 | -723.1 | 875.8 | 822.7 | 53.11 | 16.490 | |
| 6,700.0 | 6,635.5 | 6,663.1 | 6,590.8 | 27.3 | 27.6 | -117.24 | -502.4 | -738.5 | 888.0 | 834.0 | 53.96 | 16.455 | |
| 6,800.0 | 6,734.3 | 6,762.3 | 6,688.6 | 27.7 | 28.1 | -117.12 | -507.6 | -753.9 | 900.2 | 845.3 | 54.82 | 16.421 | |
| 6,834.8 | 6,768.7 | 6,796.8 | 6,722.7 | 27.9 | 28.2 | -117.08 | -509.4 | -759.3 | 904.4 | 849.3 | 55.11 | 16.410 | |
| 6,900.0 | 6,833.2 | 6,861.6 | 6,786.6 | 28.2 | 28.5 | -117.10 | -512.7 | -769.4 | 912.0 | 856.4 | 55.66 | 16.384 | |
| 7,000.0 | 6,932.5 | 6,960.9 | 6,884.5 | 28.6 | 28.9 | -116.95 | -517.9 | -784.8 | 922.4 | 865.9 | 56.49 | 16.328 | |
| 7,100.0 | 7,032.2 | 7,060.1 | 6,982.4 | 28.9 | 29.4 | -116.58 | -523.1 | -800.2 | 931.3 | 874.0 | 57.29 | 16.255 | |
| 7,200.0 | 7,132.1 | 7,159.2 | 7,080.1 | 29.3 | 29.8 | -116.01 | -528.2 | -815.6 | 938.7 | 880.6 | 58.06 | 16.166 | |
| 7,277.9 | 7,210.0 | 7,236.1 | 7,156.1 | 29.5 | 30.2 | -178.35 | -532.2 | -827.6 | 943.5 | 884.9 | 58.64 | 16.089 | |
| 7,300.0 | 7,232.1 | 7,257.9 | 7,177.6 | 29.6 | 30.3 | -178.14 | -533.4 | -831.0 | 944.8 | 886.0 | 58.81 | 16.066 | |
| 7,345.4 | 7,277.5 | 7,302.7 | 7,221.7 | 29.7 | 30.5 | -177.73 | -535.7 | -837.9 | 947.5 | 888.3 | 59.14 | 16.021 | |
| 7,350.0 | 7,282.1 | 7,307.3 | 7,226.2 | 29.8 | 30.5 | 92.70 | -535.9 | -838.6 | 947.7 | 888.6 | 59.17 | 16.017 | |
| 7,375.0 | 7,307.1 | 7,331.8 | 7,250.4 | 29.8 | 30.6 | 92.79 | -537.2 | -842.4 | 949.3 | 889.9 | 59.34 | 15.997 | |
| 7,400.0 | 7,332.0 | 7,356.0 | 7,274.3 | 29.9 | 30.7 | 92.95 | -538.5 | -846.2 | 950.9 | 891.4 | 59.50 | 15.980 | |
| 7,425.0 | 7,356.7 | 7,379.8 | 7,297.8 | 29.9 | 30.8 | 93.16 | -539.7 | -849.9 | 952.6 | 893.0 | 59.65 | 15.969 | |
| 7,450.0 | 7,381.3 | 7,403.3 | 7,321.0 | 30.0 | 30.9 | 93.41 | -540.9 | -853.5 | 954.5 | 894.7 | 59.79 | 15.963 | |
| 7,475.0 | 7,405.5 | 7,426.3 | 7,343.6 | 30.0 | 31.0 | 93.70 | -542.1 | -857.1 | 956.5 | 896.6 | 59.93 | 15.962 SF | |
| 7,500.0 | 7,429.4 | 7,448.7 | 7,365.8 | 30.1 | 31.1 | 94.02 | -543.3 | -860.6 | 958.7 | 898.7 | 60.05 | 15.967 | |
| 7,525.0 | 7,452.9 | 7,470.5 | 7,387.3 | 30.1 | 31.2 | 94.35 | -544.4 | -864.0 | 961.2 | 901.0 | 60.15 | 15.979 | |
| 7,550.0 | 7,475.9 | 7,491.7 | 7,408.2 | 30.1 | 31.3 | 94.69 | -545.5 | -867.3 | 963.9 | 903.7 | 60.25 | 15.999 | |
| 7,575.0 | 7,498.4 | 7,512.1 | 7,428.3 | 30.1 | 31.4 | 95.02 | -546.6 | -870.5 | 966.9 | 906.6 | 60.33 | 16.026 | |
| 7,600.0 | 7,520.2 | 7,531.8 | 7,447.7 | 30.2 | 31.5 | 95.33 | -547.6 | -873.5 | 970.3 | 909.9 | 60.41 | 16.062 | |
| 7,625.0 | 7,541.4 | 7,550.6 | 7,466.3 | 30.2 | 31.6 | 95.60 | -548.6 | -876.4 | 974.0 | 913.5 | 60.47 | 16.107 | |
| 7,650.0 | 7,561.9 | 7,568.6 | 7,484.0 | 30.2 | 31.6 | 95.84 | -549.5 | -879.2 | 978.1 | 917.6 | 60.52 | 16.163 | |
| 7,675.0 | 7,581.5 | 7,585.6 | 7,500.8 | 30.2 | 31.7 | 96.01 | -550.4 | -881.9 | 982.7 | 922.1 | 60.55 | 16.228 | |
| 7,700.0 | 7,600.4 | 7,601.7 | 7,516.6 | 30.2 | 31.8 | 96.12 | -551.2 | -884.4 | 987.7 | 927.1 | 60.58 | 16.304 | |
| 7,725.0 | 7,618.4 | 7,619.2 | 7,533.9 | 30.2 | 31.9 | 96.27 | -552.1 | -887.1 | 993.2 | 932.6 | 60.61 | 16.386 | |
| 7,750.0 | 7,635.4 | 7,636.6 | 7,551.1 | 30.2 | 31.9 | 96.37 | -553.0 | -889.6 | 999.2 | 938.5 | 60.64 | 16.477 | |

Released to Imaging: 5/1/2026 9:47:52 AM

| | | | |
|---|---|---|---|
| **Company:** | NEW MEXICO | **Local Co-ordinate Reference:** | Well DONNIE BRASCO FED COM 173H |
| **Project:** | (SP) EDDY | **TVD Reference:** | KB @ 3335.0usft |
| **Reference Site:** | DONNIE BRASCO | **MD Reference:** | KB @ 3335.0usft |
| **Site Error:** | 0.0 usft | **North Reference:** | Grid |
| **Reference Well:** | DONNIE BRASCO FED COM 173H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.0 usft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | OWB | **Database:** | Compass_17 |
| **Reference Design:** | PWP0 | **Offset TVD Reference:** | Offset Datum |

**Offset Design:** DONNIE BRASCO - DONNIE BRASCO FED COM 174H - OWB - PWP0

**Offset Site Error:** 0.0 usft

**Survey Program:** 0-MWD

**Rule Assigned:**

**Offset Well Error:** 0.0 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 Centre +N/-S (usft) | Offset Wellbore Centre +E/-W (usft) | Distance Between Centres (usft) | Distance Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 148.47 | -220.0 | 135.0 | 258.1 | | | | |
| 100.0 | 100.0 | 100.0 | 100.0 | 0.3 | 0.3 | 148.47 | -220.0 | 135.0 | 258.1 | 257.6 | 0.50 | 514.322 | |
| 200.0 | 200.0 | 200.0 | 200.0 | 0.6 | 0.6 | 148.47 | -220.0 | 135.0 | 258.1 | 256.9 | 1.22 | 211.780 | |
| 300.0 | 300.0 | 300.0 | 300.0 | 1.0 | 1.0 | 148.47 | -220.0 | 135.0 | 258.1 | 256.2 | 1.94 | 133.343 | |
| 400.0 | 400.0 | 400.0 | 400.0 | 1.3 | 1.3 | 148.47 | -220.0 | 135.0 | 258.1 | 255.5 | 2.65 | 97.304 | |
| 500.0 | 500.0 | 500.0 | 500.0 | 1.7 | 1.7 | 148.47 | -220.0 | 135.0 | 258.1 | 254.7 | 3.37 | 76.601 | |
| 600.0 | 600.0 | 600.0 | 600.0 | 2.0 | 2.0 | 148.47 | -220.0 | 135.0 | 258.1 | 254.0 | 4.09 | 63.162 | |
| 700.0 | 700.0 | 700.0 | 700.0 | 2.4 | 2.4 | 148.47 | -220.0 | 135.0 | 258.1 | 253.3 | 4.80 | 53.735 | |
| 800.0 | 800.0 | 800.0 | 800.0 | 2.8 | 2.8 | 148.47 | -220.0 | 135.0 | 258.1 | 252.6 | 5.52 | 46.757 | |
| 900.0 | 900.0 | 900.0 | 900.0 | 3.1 | 3.1 | 148.47 | -220.0 | 135.0 | 258.1 | 251.9 | 6.24 | 41.382 | |
| 1,000.0 | 1,000.0 | 1,000.0 | 1,000.0 | 3.5 | 3.5 | 148.47 | -220.0 | 135.0 | 258.1 | 251.2 | 6.95 | 37.116 | CC, ES |
| 1,100.0 | 1,100.0 | 1,099.7 | 1,099.7 | 3.8 | 3.8 | -148.42 | -220.9 | 133.5 | 259.7 | 252.0 | 7.65 | 33.930 | |
| 1,200.0 | 1,199.8 | 1,199.3 | 1,199.1 | 4.2 | 4.2 | -147.84 | -223.8 | 129.2 | 264.3 | 255.9 | 8.34 | 31.689 | |
| 1,300.0 | 1,299.5 | 1,298.5 | 1,298.0 | 4.5 | 4.5 | -146.91 | -228.5 | 122.0 | 272.0 | 263.0 | 9.04 | 30.102 | |
| 1,400.0 | 1,398.7 | 1,397.2 | 1,395.9 | 4.9 | 4.8 | -145.69 | -235.0 | 111.9 | 282.9 | 273.2 | 9.75 | 29.032 | |
| 1,443.1 | 1,441.3 | 1,439.5 | 1,437.8 | 5.1 | 5.0 | -145.09 | -238.3 | 106.8 | 288.6 | 278.6 | 10.06 | 28.695 | |
| 1,500.0 | 1,497.6 | 1,495.2 | 1,492.7 | 5.3 | 5.2 | -144.29 | -243.2 | 99.2 | 296.6 | 286.1 | 10.47 | 28.329 | |
| 1,600.0 | 1,596.4 | 1,592.5 | 1,588.3 | 5.7 | 5.6 | -142.50 | -253.2 | 83.8 | 311.1 | 299.9 | 11.21 | 27.749 | |
| 1,700.0 | 1,695.2 | 1,689.9 | 1,683.3 | 6.1 | 6.0 | -140.35 | -264.8 | 66.0 | 326.3 | 314.4 | 11.97 | 27.252 | |
| 1,800.0 | 1,794.0 | 1,787.9 | 1,778.9 | 6.5 | 6.4 | -138.31 | -276.6 | 47.7 | 342.1 | 329.3 | 12.76 | 26.807 | |
| 1,900.0 | 1,892.8 | 1,886.0 | 1,874.5 | 6.9 | 6.8 | -136.45 | -288.5 | 29.4 | 358.2 | 344.7 | 13.56 | 26.417 | |
| 2,000.0 | 1,991.6 | 1,984.0 | 1,970.1 | 7.3 | 7.3 | -134.75 | -300.4 | 11.1 | 374.7 | 360.3 | 14.37 | 26.075 | |
| 2,100.0 | 2,090.4 | 2,082.0 | 2,065.7 | 7.7 | 7.7 | -133.19 | -312.3 | -7.2 | 391.5 | 376.3 | 15.19 | 25.773 | |
| 2,200.0 | 2,189.2 | 2,180.1 | 2,161.2 | 8.1 | 8.2 | -131.76 | -324.1 | -25.5 | 408.5 | 392.5 | 16.02 | 25.508 | |
| 2,300.0 | 2,288.0 | 2,278.1 | 2,256.8 | 8.5 | 8.6 | -130.45 | -336.0 | -43.8 | 425.8 | 408.9 | 16.85 | 25.273 | |
| 2,400.0 | 2,386.8 | 2,376.2 | 2,352.4 | 8.9 | 9.1 | -129.23 | -347.9 | -62.1 | 443.3 | 425.6 | 17.68 | 25.066 | |
| 2,500.0 | 2,485.6 | 2,474.2 | 2,448.0 | 9.3 | 9.5 | -128.11 | -359.7 | -80.4 | 460.9 | 442.4 | 18.52 | 24.881 | |
| 2,600.0 | 2,584.4 | 2,572.2 | 2,543.6 | 9.7 | 10.0 | -127.07 | -371.6 | -98.7 | 478.7 | 459.4 | 19.37 | 24.716 | |
| 2,700.0 | 2,683.2 | 2,670.3 | 2,639.2 | 10.2 | 10.5 | -126.11 | -383.5 | -117.0 | 496.7 | 476.5 | 20.21 | 24.569 | |
| 2,800.0 | 2,782.0 | 2,768.3 | 2,734.7 | 10.6 | 10.9 | -125.21 | -395.3 | -135.3 | 514.8 | 493.7 | 21.06 | 24.438 | |
| 2,900.0 | 2,880.8 | 2,866.4 | 2,830.3 | 11.0 | 11.4 | -124.37 | -407.2 | -153.6 | 532.9 | 511.0 | 21.91 | 24.319 | |
| 3,000.0 | 2,979.6 | 2,964.4 | 2,925.9 | 11.4 | 11.9 | -123.59 | -419.1 | -171.9 | 551.2 | 528.5 | 22.77 | 24.212 | |
| 3,100.0 | 3,078.5 | 3,062.5 | 3,021.5 | 11.9 | 12.4 | -122.86 | -430.9 | -190.2 | 569.6 | 546.0 | 23.62 | 24.116 | |
| 3,200.0 | 3,177.3 | 3,160.5 | 3,117.1 | 12.3 | 12.9 | -122.17 | -442.8 | -208.5 | 588.1 | 563.6 | 24.48 | 24.028 | |
| 3,300.0 | 3,276.1 | 3,258.5 | 3,212.7 | 12.7 | 13.3 | -121.53 | -454.7 | -226.8 | 606.7 | 581.3 | 25.33 | 23.949 | |
| 3,400.0 | 3,374.9 | 3,356.6 | 3,308.2 | 13.1 | 13.8 | -120.92 | -466.6 | -245.2 | 625.3 | 599.1 | 26.19 | 23.876 | |
| 3,500.0 | 3,473.7 | 3,454.6 | 3,403.8 | 13.6 | 14.3 | -120.35 | -478.4 | -263.5 | 644.0 | 616.9 | 27.05 | 23.810 | |
| 3,600.0 | 3,572.5 | 3,552.7 | 3,499.4 | 14.0 | 14.8 | -119.81 | -490.3 | -281.8 | 662.7 | 634.8 | 27.90 | 23.749 | |
| 3,700.0 | 3,671.3 | 3,650.7 | 3,595.0 | 14.4 | 15.3 | -119.30 | -502.2 | -300.1 | 681.5 | 652.8 | 28.76 | 23.694 | |
| 3,800.0 | 3,770.1 | 3,748.7 | 3,690.6 | 14.8 | 15.8 | -118.82 | -514.0 | -318.4 | 700.4 | 670.8 | 29.62 | 23.643 | |
| 3,900.0 | 3,868.9 | 3,846.8 | 3,786.2 | 15.3 | 16.3 | -118.36 | -525.9 | -336.7 | 719.3 | 688.8 | 30.48 | 23.596 | |
| 4,000.0 | 3,967.7 | 3,944.8 | 3,881.7 | 15.7 | 16.7 | -117.93 | -537.8 | -355.0 | 738.2 | 706.9 | 31.34 | 23.552 | |
| 4,100.0 | 4,066.5 | 4,042.9 | 3,977.3 | 16.1 | 17.2 | -117.51 | -549.6 | -373.3 | 757.2 | 725.0 | 32.20 | 23.512 | |
| 4,200.0 | 4,165.3 | 4,140.9 | 4,072.9 | 16.5 | 17.7 | -117.12 | -561.5 | -391.6 | 776.2 | 743.1 | 33.06 | 23.475 | |
| 4,300.0 | 4,264.1 | 4,238.9 | 4,168.5 | 17.0 | 18.2 | -116.75 | -573.4 | -409.9 | 795.2 | 761.3 | 33.93 | 23.440 | |
| 4,400.0 | 4,362.9 | 4,337.0 | 4,264.1 | 17.4 | 18.7 | -116.39 | -585.2 | -428.2 | 814.3 | 779.5 | 34.79 | 23.408 | |
| 4,500.0 | 4,461.7 | 4,435.0 | 4,359.7 | 17.8 | 19.2 | -116.05 | -597.1 | -446.5 | 833.4 | 797.8 | 35.65 | 23.378 | |
| 4,600.0 | 4,560.5 | 4,533.1 | 4,455.2 | 18.3 | 19.7 | -115.73 | -609.0 | -464.8 | 852.6 | 816.0 | 36.51 | 23.350 | |
| 4,700.0 | 4,659.4 | 4,631.1 | 4,550.8 | 18.7 | 20.2 | -115.42 | -620.9 | -483.1 | 871.7 | 834.3 | 37.37 | 23.324 | |
| 4,800.0 | 4,758.2 | 4,729.1 | 4,646.4 | 19.1 | 20.7 | -115.12 | -632.7 | -501.4 | 890.9 | 852.7 | 38.24 | 23.300 | |
| 4,900.0 | 4,857.0 | 4,827.2 | 4,742.0 | 19.6 | 21.2 | -114.84 | -644.6 | -519.7 | 910.1 | 871.0 | 39.10 | 23.277 | |
| 5,000.0 | 4,955.8 | 4,925.2 | 4,837.6 | 20.0 | 21.7 | -114.57 | -656.5 | -538.0 | 929.3 | 889.4 | 39.96 | 23.256 | |

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|---|---|---|---|
| **Company:** | NEW MEXICO | **Local Co-ordinate Reference:** | Well DONNIE BRASCO FED COM 173H |
| **Project:** | (SP) EDDY | **TVD Reference:** | KB @ 3335.0usft |
| **Reference Site:** | DONNIE BRASCO | **MD Reference:** | KB @ 3335.0usft |
| **Site Error:** | 0.0 usft | **North Reference:** | Grid |
| **Reference Well:** | DONNIE BRASCO FED COM 173H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.0 usft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | OWB | **Database:** | Compass_17 |
| **Reference Design:** | PWP0 | **Offset TVD Reference:** | Offset Datum |

**Offset Design:** DONNIE BRASCO - DONNIE BRASCO FED COM 174H - OWB - PWP0

**Offset Site Error:** 0.0 usft

**Survey Program:** 0-MWD

**Rule Assigned:**

**Offset Well Error:** 0.0 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 Centre +N/-S (usft) | Offset Wellbore Centre +E/-W (usft) | Distance Between Centres (usft) | Distance Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5,100.0 | 5,054.6 | 5,023.3 | 4,933.2 | 20.4 | 22.2 | -114.30 | -668.3 | -556.3 | 948.6 | 907.7 | 40.82 | 23.236 | |
| 5,200.0 | 5,153.4 | 5,121.3 | 5,028.7 | 20.8 | 22.7 | -114.05 | -680.2 | -574.6 | 967.8 | 926.1 | 41.69 | 23.217 | |
| 5,300.0 | 5,252.2 | 5,219.3 | 5,124.3 | 21.3 | 23.2 | -113.81 | -692.1 | -592.9 | 987.1 | 944.5 | 42.55 | 23.199 SF | |

Released to Imaging: 5/1/2026 9:47:52 AM

| | | | |
|---|---|---|---|
| **Company:** | NEW MEXICO | **Local Co-ordinate Reference:** | Well DONNIE BRASCO FED COM 173H |
| **Project:** | (SP) EDDY | **TVD Reference:** | KB @ 3335.0usft |
| **Reference Site:** | DONNIE BRASCO | **MD Reference:** | KB @ 3335.0usft |
| **Site Error:** | 0.0 usft | **North Reference:** | Grid |
| **Reference Well:** | DONNIE BRASCO FED COM 173H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.0 usft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | OWB | **Database:** | Compass_17 |
| **Reference Design:** | PWP0 | **Offset TVD Reference:** | Offset Datum |

**Offset Design:** DONNIE BRASCO - DONNIE BRASCO FED COM 213H - OWB - PWP0

**Offset Site Error:** 0.0 usft

**Survey Program:** 0-MWD

**Offset Well Error:** 0.0 usft

**Rule Assigned:**

| 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 Centre +N/-S (usft) | Offset Wellbore Centre +E/-W (usft) | Distance Between Centres (usft) | Distance Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 143.13 | -220.0 | 165.0 | 275.0 | | | | |
| 100.0 | 100.0 | 100.0 | 100.0 | 0.3 | 0.3 | 143.13 | -220.0 | 165.0 | 275.0 | 274.5 | 0.50 | 547.961 | |
| 200.0 | 200.0 | 200.0 | 200.0 | 0.6 | 0.6 | 143.13 | -220.0 | 165.0 | 275.0 | 273.8 | 1.22 | 225.631 | |
| 300.0 | 300.0 | 300.0 | 300.0 | 1.0 | 1.0 | 143.13 | -220.0 | 165.0 | 275.0 | 273.1 | 1.94 | 142.064 | |
| 400.0 | 400.0 | 400.0 | 400.0 | 1.3 | 1.3 | 143.13 | -220.0 | 165.0 | 275.0 | 272.3 | 2.65 | 103.668 | |
| 500.0 | 500.0 | 500.0 | 500.0 | 1.7 | 1.7 | 143.13 | -220.0 | 165.0 | 275.0 | 271.6 | 3.37 | 81.611 | |
| 600.0 | 600.0 | 600.0 | 600.0 | 2.0 | 2.0 | 143.13 | -220.0 | 165.0 | 275.0 | 270.9 | 4.09 | 67.293 | |
| 700.0 | 700.0 | 700.0 | 700.0 | 2.4 | 2.4 | 143.13 | -220.0 | 165.0 | 275.0 | 270.2 | 4.80 | 57.250 | |
| 800.0 | 800.0 | 800.0 | 800.0 | 2.8 | 2.8 | 143.13 | -220.0 | 165.0 | 275.0 | 269.5 | 5.52 | 49.815 | |
| 900.0 | 900.0 | 900.0 | 900.0 | 3.1 | 3.1 | 143.13 | -220.0 | 165.0 | 275.0 | 268.8 | 6.24 | 44.089 | |
| 1,000.0 | 1,000.0 | 1,000.0 | 1,000.0 | 3.5 | 3.5 | 143.13 | -220.0 | 165.0 | 275.0 | 268.0 | 6.95 | 39.544 | CC |
| 1,100.0 | 1,100.0 | 1,108.4 | 1,108.4 | 3.8 | 3.9 | -153.88 | -219.4 | 163.0 | 275.0 | 267.3 | 7.69 | 35.776 | |
| 1,200.0 | 1,199.8 | 1,216.9 | 1,216.7 | 4.2 | 4.2 | -153.65 | -217.6 | 157.2 | 275.1 | 266.7 | 8.41 | 32.720 | |
| 1,300.0 | 1,299.5 | 1,325.2 | 1,324.5 | 4.5 | 4.6 | -153.26 | -214.5 | 147.4 | 275.3 | 266.2 | 9.13 | 30.155 | |
| 1,400.0 | 1,398.7 | 1,433.6 | 1,431.9 | 4.9 | 5.0 | -152.73 | -210.2 | 133.7 | 275.6 | 265.7 | 9.85 | 27.969 | |
| 1,443.1 | 1,441.3 | 1,477.7 | 1,475.5 | 5.1 | 5.2 | -152.49 | -208.2 | 127.2 | 275.9 | 265.7 | 10.17 | 27.136 | ES |
| 1,500.0 | 1,497.6 | 1,534.5 | 1,531.7 | 5.3 | 5.4 | -152.22 | -205.6 | 118.8 | 276.6 | 266.0 | 10.58 | 26.142 | |
| 1,600.0 | 1,596.4 | 1,634.5 | 1,630.4 | 5.7 | 5.8 | -151.75 | -201.0 | 104.0 | 277.9 | 266.6 | 11.32 | 24.555 | |
| 1,700.0 | 1,695.2 | 1,734.5 | 1,729.2 | 6.1 | 6.2 | -151.28 | -196.3 | 89.2 | 279.3 | 267.2 | 12.06 | 23.149 | |
| 1,800.0 | 1,794.0 | 1,834.4 | 1,827.9 | 6.5 | 6.6 | -150.82 | -191.7 | 74.3 | 280.6 | 267.8 | 12.82 | 21.896 | |
| 1,900.0 | 1,892.8 | 1,934.4 | 1,926.7 | 6.9 | 7.0 | -150.36 | -187.1 | 59.5 | 282.0 | 268.4 | 13.58 | 20.774 | |
| 2,000.0 | 1,991.6 | 2,034.4 | 2,025.4 | 7.3 | 7.4 | -149.91 | -182.4 | 44.7 | 283.4 | 269.1 | 14.34 | 19.765 | |
| 2,100.0 | 2,090.4 | 2,134.3 | 2,124.2 | 7.7 | 7.8 | -149.46 | -177.8 | 29.9 | 284.8 | 269.7 | 15.11 | 18.852 | |
| 2,200.0 | 2,189.2 | 2,234.3 | 2,222.9 | 8.1 | 8.2 | -149.02 | -173.2 | 15.1 | 286.2 | 270.4 | 15.88 | 18.024 | |
| 2,300.0 | 2,288.0 | 2,334.3 | 2,321.7 | 8.5 | 8.6 | -148.58 | -168.6 | 0.3 | 287.7 | 271.0 | 16.66 | 17.270 | |
| 2,400.0 | 2,386.8 | 2,434.2 | 2,420.4 | 8.9 | 9.1 | -148.15 | -163.9 | -14.6 | 289.2 | 271.7 | 17.44 | 16.581 | |
| 2,500.0 | 2,485.6 | 2,534.2 | 2,519.2 | 9.3 | 9.5 | -147.72 | -159.3 | -29.4 | 290.6 | 272.4 | 18.22 | 15.948 | |
| 2,600.0 | 2,584.4 | 2,634.2 | 2,617.9 | 9.7 | 9.9 | -147.29 | -154.7 | -44.2 | 292.1 | 273.1 | 19.01 | 15.366 | |
| 2,700.0 | 2,683.2 | 2,734.1 | 2,716.7 | 10.2 | 10.3 | -146.87 | -150.1 | -59.0 | 293.6 | 273.8 | 19.80 | 14.829 | |
| 2,800.0 | 2,782.0 | 2,834.1 | 2,815.5 | 10.6 | 10.7 | -146.45 | -145.4 | -73.8 | 295.2 | 274.6 | 20.60 | 14.331 | |
| 2,900.0 | 2,880.8 | 2,934.1 | 2,914.2 | 11.0 | 11.2 | -146.04 | -140.8 | -88.6 | 296.7 | 275.3 | 21.39 | 13.870 | |
| 3,000.0 | 2,979.6 | 3,034.0 | 3,013.0 | 11.4 | 11.6 | -145.63 | -136.2 | -103.5 | 298.3 | 276.1 | 22.19 | 13.441 | |
| 3,100.0 | 3,078.5 | 3,134.0 | 3,111.7 | 11.9 | 12.0 | -145.23 | -131.6 | -118.3 | 299.8 | 276.8 | 22.99 | 13.041 | |
| 3,200.0 | 3,177.3 | 3,234.0 | 3,210.5 | 12.3 | 12.4 | -144.83 | -126.9 | -133.1 | 301.4 | 277.6 | 23.80 | 12.667 | |
| 3,300.0 | 3,276.1 | 3,333.9 | 3,309.2 | 12.7 | 12.9 | -144.43 | -122.3 | -147.9 | 303.0 | 278.4 | 24.60 | 12.317 | |
| 3,400.0 | 3,374.9 | 3,433.9 | 3,408.0 | 13.1 | 13.3 | -144.04 | -117.7 | -162.7 | 304.6 | 279.2 | 25.41 | 11.989 | |
| 3,500.0 | 3,473.7 | 3,533.9 | 3,506.7 | 13.6 | 13.7 | -143.65 | -113.1 | -177.6 | 306.3 | 280.1 | 26.22 | 11.681 | |
| 3,600.0 | 3,572.5 | 3,633.8 | 3,605.5 | 14.0 | 14.1 | -143.27 | -108.4 | -192.4 | 307.9 | 280.9 | 27.03 | 11.391 | |
| 3,700.0 | 3,671.3 | 3,733.8 | 3,704.2 | 14.4 | 14.6 | -142.89 | -103.8 | -207.2 | 309.6 | 281.7 | 27.85 | 11.117 | |
| 3,800.0 | 3,770.1 | 3,833.7 | 3,803.0 | 14.8 | 15.0 | -142.51 | -99.2 | -222.0 | 311.2 | 282.6 | 28.66 | 10.859 | |
| 3,900.0 | 3,868.9 | 3,933.7 | 3,901.7 | 15.3 | 15.4 | -142.14 | -94.5 | -236.8 | 312.9 | 283.5 | 29.48 | 10.615 | |
| 4,000.0 | 3,967.7 | 4,033.7 | 4,000.5 | 15.7 | 15.9 | -141.78 | -89.9 | -251.6 | 314.6 | 284.3 | 30.30 | 10.384 | |
| 4,100.0 | 4,066.5 | 4,133.6 | 4,099.2 | 16.1 | 16.3 | -141.41 | -85.3 | -266.5 | 316.3 | 285.2 | 31.12 | 10.165 | |
| 4,200.0 | 4,165.3 | 4,233.6 | 4,198.0 | 16.5 | 16.7 | -141.05 | -80.7 | -281.3 | 318.1 | 286.1 | 31.94 | 9.957 | |
| 4,300.0 | 4,264.1 | 4,333.6 | 4,296.7 | 17.0 | 17.2 | -140.70 | -76.0 | -296.1 | 319.8 | 287.0 | 32.77 | 9.760 | |
| 4,400.0 | 4,362.9 | 4,433.5 | 4,395.5 | 17.4 | 17.6 | -140.35 | -71.4 | -310.9 | 321.5 | 288.0 | 33.59 | 9.572 | |
| 4,500.0 | 4,461.7 | 4,533.5 | 4,494.3 | 17.8 | 18.0 | -140.00 | -66.8 | -325.7 | 323.3 | 288.9 | 34.42 | 9.393 | |
| 4,600.0 | 4,560.5 | 4,633.5 | 4,593.0 | 18.3 | 18.4 | -139.65 | -62.2 | -340.6 | 325.1 | 289.8 | 35.25 | 9.222 | |
| 4,700.0 | 4,659.4 | 4,733.4 | 4,691.8 | 18.7 | 18.9 | -139.31 | -57.5 | -355.4 | 326.9 | 290.8 | 36.08 | 9.059 | |
| 4,800.0 | 4,758.2 | 4,833.4 | 4,790.5 | 19.1 | 19.3 | -138.98 | -52.9 | -370.2 | 328.7 | 291.7 | 36.91 | 8.904 | |
| 4,900.0 | 4,857.0 | 4,933.4 | 4,889.3 | 19.6 | 19.7 | -138.64 | -48.3 | -385.0 | 330.5 | 292.7 | 37.74 | 8.755 | |
| 5,000.0 | 4,955.8 | 5,033.3 | 4,988.0 | 20.0 | 20.2 | -138.32 | -43.7 | -399.8 | 332.3 | 293.7 | 38.58 | 8.613 | |

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

| | | | |
|---|---|---|---|
| **Company:** | NEW MEXICO | **Local Co-ordinate Reference:** | Well DONNIE BRASCO FED COM 173H |
| **Project:** | (SP) EDDY | **TVD Reference:** | KB @ 3335.0usft |
| **Reference Site:** | DONNIE BRASCO | **MD Reference:** | KB @ 3335.0usft |
| **Site Error:** | 0.0 usft | **North Reference:** | Grid |
| **Reference Well:** | DONNIE BRASCO FED COM 173H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.0 usft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | OWB | **Database:** | Compass_17 |
| **Reference Design:** | PWP0 | **Offset TVD Reference:** | Offset Datum |

**Offset Design:** DONNIE BRASCO - DONNIE BRASCO FED COM 213H - OWB - PWP0

**Offset Site Error:** 0.0 usft

**Survey Program:** 0-MWD

**Offset Well Error:** 0.0 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 Centre +N/-S (usft) | Offset Wellbore Centre +E/-W (usft) | Rule Assigned: Distance Between Centres (usft) | Rule Assigned: Distance Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5,100.0 | 5,054.6 | 5,133.3 | 5,086.8 | 20.4 | 20.6 | -137.99 | -39.0 | -414.6 | 334.1 | 294.7 | 39.41 | 8.477 | |
| 5,200.0 | 5,153.4 | 5,233.3 | 5,185.5 | 20.8 | 21.0 | -137.67 | -34.4 | -429.5 | 335.9 | 295.7 | 40.25 | 8.347 | |
| 5,300.0 | 5,252.2 | 5,333.2 | 5,284.3 | 21.3 | 21.5 | -137.35 | -29.8 | -444.3 | 337.8 | 296.7 | 41.09 | 8.221 | |
| 5,400.0 | 5,351.0 | 5,433.2 | 5,383.0 | 21.7 | 21.9 | -137.03 | -25.2 | -459.1 | 339.6 | 297.7 | 41.92 | 8.101 | |
| 5,500.0 | 5,449.8 | 5,533.2 | 5,481.8 | 22.1 | 22.3 | -136.72 | -20.5 | -473.9 | 341.5 | 298.7 | 42.76 | 7.986 | |
| 5,600.0 | 5,548.6 | 5,633.1 | 5,580.5 | 22.6 | 22.8 | -136.41 | -15.9 | -488.7 | 343.4 | 299.8 | 43.61 | 7.875 | |
| 5,700.0 | 5,647.4 | 5,733.1 | 5,679.3 | 23.0 | 23.2 | -136.11 | -11.3 | -503.5 | 345.3 | 300.8 | 44.45 | 7.768 | |
| 5,800.0 | 5,746.2 | 5,833.1 | 5,778.0 | 23.4 | 23.6 | -135.81 | -6.6 | -518.4 | 347.2 | 301.9 | 45.29 | 7.666 | |
| 5,900.0 | 5,845.0 | 5,933.0 | 5,876.8 | 23.9 | 24.1 | -135.51 | -2.0 | -533.2 | 349.1 | 303.0 | 46.13 | 7.567 | |
| 6,000.0 | 5,943.8 | 6,033.0 | 5,975.5 | 24.3 | 24.5 | -135.21 | 2.6 | -548.0 | 351.0 | 304.0 | 46.98 | 7.472 | |
| 6,100.0 | 6,042.6 | 6,132.9 | 6,074.3 | 24.7 | 24.9 | -134.92 | 7.2 | -562.8 | 352.9 | 305.1 | 47.82 | 7.380 | |
| 6,200.0 | 6,141.4 | 6,232.9 | 6,173.0 | 25.2 | 25.4 | -134.63 | 11.9 | -577.6 | 354.9 | 306.2 | 48.67 | 7.291 | |
| 6,300.0 | 6,240.3 | 6,332.9 | 6,271.8 | 25.6 | 25.8 | -134.35 | 16.5 | -592.5 | 356.8 | 307.3 | 49.52 | 7.206 | |
| 6,400.0 | 6,339.1 | 6,432.8 | 6,370.6 | 26.0 | 26.2 | -134.07 | 21.1 | -607.3 | 358.8 | 308.4 | 50.37 | 7.123 | |
| 6,500.0 | 6,437.9 | 6,532.8 | 6,469.3 | 26.4 | 26.7 | -133.79 | 25.7 | -622.1 | 360.7 | 309.5 | 51.22 | 7.043 | |
| 6,600.0 | 6,536.7 | 6,632.8 | 6,568.1 | 26.9 | 27.1 | -133.51 | 30.4 | -636.9 | 362.7 | 310.6 | 52.07 | 6.966 | |
| 6,700.0 | 6,635.5 | 6,732.7 | 6,666.8 | 27.3 | 27.5 | -133.24 | 35.0 | -651.7 | 364.7 | 311.8 | 52.92 | 6.891 | |
| 6,800.0 | 6,734.3 | 6,832.7 | 6,765.6 | 27.7 | 28.0 | -132.97 | 39.6 | -666.5 | 366.7 | 312.9 | 53.77 | 6.819 | |
| 6,834.8 | 6,768.7 | 6,867.5 | 6,799.9 | 27.9 | 28.1 | -132.87 | 41.2 | -671.7 | 367.4 | 313.3 | 54.06 | 6.795 | |
| 6,900.0 | 6,833.2 | 6,932.7 | 6,864.3 | 28.2 | 28.4 | -132.63 | 44.2 | -681.4 | 368.2 | 313.5 | 54.62 | 6.740 | |
| 7,000.0 | 6,932.5 | 7,032.6 | 6,963.0 | 28.6 | 28.8 | -131.89 | 48.9 | -696.2 | 367.5 | 312.0 | 55.50 | 6.621 | |
| 7,100.0 | 7,032.2 | 7,132.2 | 7,061.5 | 28.9 | 29.3 | -130.70 | 53.5 | -710.9 | 364.5 | 308.1 | 56.40 | 6.464 | |
| 7,200.0 | 7,132.1 | 7,231.6 | 7,159.6 | 29.3 | 29.7 | -129.05 | 58.1 | -725.7 | 359.6 | 302.2 | 57.31 | 6.274 | |
| 7,277.9 | 7,210.0 | 7,308.7 | 7,235.8 | 29.5 | 30.0 | 169.68 | 61.6 | -737.1 | 354.4 | 296.4 | 58.04 | 6.106 | |
| 7,300.0 | 7,232.1 | 7,330.5 | 7,257.4 | 29.6 | 30.1 | 170.17 | 62.7 | -740.3 | 352.8 | 294.6 | 58.24 | 6.057 | |
| 7,345.4 | 7,277.5 | 7,375.4 | 7,301.7 | 29.7 | 30.3 | 171.19 | 64.7 | -747.0 | 349.6 | 290.9 | 58.67 | 5.959 | |
| 7,350.0 | 7,282.1 | 7,379.9 | 7,306.2 | 29.8 | 30.3 | 81.75 | 64.9 | -747.7 | 349.3 | 290.6 | 58.71 | 5.949 | |
| 7,375.0 | 7,307.1 | 7,404.5 | 7,330.4 | 29.8 | 30.4 | 82.68 | 66.1 | -751.3 | 347.5 | 288.5 | 58.95 | 5.894 | |
| 7,400.0 | 7,332.0 | 7,428.8 | 7,354.4 | 29.9 | 30.6 | 83.82 | 67.2 | -754.9 | 345.5 | 286.4 | 59.19 | 5.838 | |
| 7,425.0 | 7,356.7 | 7,452.7 | 7,378.0 | 29.9 | 30.7 | 85.16 | 68.3 | -758.4 | 343.6 | 284.2 | 59.45 | 5.780 | |
| 7,450.0 | 7,381.3 | 7,476.2 | 7,401.3 | 30.0 | 30.8 | 86.69 | 69.4 | -761.9 | 341.7 | 282.0 | 59.71 | 5.723 | |
| 7,475.0 | 7,405.5 | 7,499.3 | 7,424.0 | 30.0 | 30.9 | 88.38 | 70.5 | -765.3 | 340.0 | 280.0 | 59.97 | 5.670 | |
| 7,500.0 | 7,429.4 | 7,521.8 | 7,446.3 | 30.1 | 31.0 | 90.19 | 71.5 | -768.7 | 338.5 | 278.3 | 60.23 | 5.621 | |
| 7,525.0 | 7,452.9 | 7,543.7 | 7,468.0 | 30.1 | 31.1 | 92.10 | 72.5 | -771.9 | 337.5 | 277.0 | 60.49 | 5.579 | |
| 7,550.0 | 7,475.9 | 7,565.0 | 7,489.0 | 30.1 | 31.1 | 94.07 | 73.5 | -775.1 | 336.9 | 276.2 | 60.74 | 5.547 | |
| 7,559.5 | 7,484.5 | 7,572.9 | 7,496.8 | 30.1 | 31.2 | 94.82 | 73.9 | -776.3 | 336.9 | 276.0 | 60.84 | 5.537 | |
| 7,575.0 | 7,498.4 | 7,585.6 | 7,509.3 | 30.1 | 31.2 | 96.04 | 74.5 | -778.1 | 337.0 | 276.0 | 60.98 | 5.527 | |
| 7,600.0 | 7,520.2 | 7,605.3 | 7,528.8 | 30.2 | 31.3 | 97.99 | 75.4 | -781.1 | 337.9 | 276.7 | 61.20 | 5.521 SF | |
| 7,625.0 | 7,541.4 | 7,624.3 | 7,547.6 | 30.2 | 31.4 | 99.87 | 76.2 | -783.9 | 339.7 | 278.3 | 61.39 | 5.533 | |
| 7,650.0 | 7,561.9 | 7,642.4 | 7,565.4 | 30.2 | 31.5 | 101.63 | 77.1 | -786.6 | 342.5 | 280.9 | 61.55 | 5.565 | |
| 7,675.0 | 7,581.5 | 7,659.6 | 7,582.4 | 30.2 | 31.6 | 103.23 | 77.9 | -789.1 | 346.4 | 284.8 | 61.67 | 5.618 | |
| 7,700.0 | 7,600.4 | 7,675.8 | 7,598.4 | 30.2 | 31.6 | 104.65 | 78.6 | -791.5 | 351.6 | 289.9 | 61.76 | 5.694 | |
| 7,725.0 | 7,618.4 | 7,690.9 | 7,613.4 | 30.2 | 31.7 | 105.85 | 79.3 | -793.8 | 358.1 | 296.3 | 61.80 | 5.795 | |
| 7,750.0 | 7,635.4 | 7,705.1 | 7,627.3 | 30.2 | 31.8 | 106.79 | 80.0 | -795.9 | 366.0 | 304.2 | 61.81 | 5.921 | |
| 7,775.0 | 7,651.4 | 7,718.1 | 7,640.2 | 30.2 | 31.8 | 107.45 | 80.6 | -797.8 | 375.2 | 313.4 | 61.79 | 6.072 | |
| 7,800.0 | 7,666.5 | 7,730.0 | 7,651.9 | 30.2 | 31.9 | 107.80 | 81.1 | -799.5 | 385.7 | 324.0 | 61.73 | 6.249 | |
| 7,825.0 | 7,680.4 | 7,740.7 | 7,662.5 | 30.2 | 31.9 | 107.81 | 81.6 | -801.1 | 397.6 | 336.0 | 61.64 | 6.450 | |
| 7,850.0 | 7,693.3 | 7,750.2 | 7,672.0 | 30.2 | 31.9 | 107.47 | 82.1 | -802.5 | 410.7 | 349.2 | 61.53 | 6.676 | |
| 7,875.0 | 7,705.0 | 7,758.5 | 7,680.2 | 30.2 | 32.0 | 106.73 | 82.5 | -803.8 | 425.1 | 363.7 | 61.40 | 6.923 | |
| 7,900.0 | 7,715.5 | 7,765.6 | 7,687.1 | 30.2 | 32.0 | 105.58 | 82.8 | -804.8 | 440.5 | 379.2 | 61.25 | 7.192 | |
| 7,925.0 | 7,724.9 | 7,771.4 | 7,692.9 | 30.2 | 32.0 | 103.98 | 83.1 | -805.7 | 456.9 | 395.9 | 61.10 | 7.479 | |
| 7,950.0 | 7,733.0 | 7,775.9 | 7,697.3 | 30.2 | 32.1 | 101.90 | 83.3 | -806.4 | 474.3 | 413.4 | 60.94 | 7.784 | |

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|---|---|---|---|
| **Company:** | NEW MEXICO | **Local Co-ordinate Reference:** | Well DONNIE BRASCO FED COM 173H |
| **Project:** | (SP) EDDY | **TVD Reference:** | KB @ 3335.0usft |
| **Reference Site:** | DONNIE BRASCO | **MD Reference:** | KB @ 3335.0usft |
| **Site Error:** | 0.0 usft | **North Reference:** | Grid |
| **Reference Well:** | DONNIE BRASCO FED COM 173H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.0 usft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | OWB | **Database:** | Compass_17 |
| **Reference Design:** | PWP0 | **Offset TVD Reference:** | Offset Datum |

**Offset Design:** DONNIE BRASCO - DONNIE BRASCO FED COM 213H - OWB - PWP0

**Offset Site Error:** 0.0 usft

**Survey Program:** 0-MWD

**Rule Assigned:**

**Offset Well Error:** 0.0 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 Centre +N/-S (usft) | Offset Wellbore Centre +E/-W (usft) | Distance Between Centres (usft) | Distance Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7,975.0 | 7,739.9 | 7,779.1 | 7,700.5 | 30.3 | 32.1 | 99.32 | 83.4 | -806.8 | 492.5 | 431.7 | 60.77 | 8.104 | |
| 8,000.0 | 7,745.5 | 7,781.1 | 7,702.4 | 30.3 | 32.1 | 96.23 | 83.5 | -807.1 | 511.4 | 450.8 | 60.61 | 8.437 | |
| 8,025.0 | 7,749.8 | 7,781.7 | 7,703.0 | 30.4 | 32.1 | 92.63 | 83.5 | -807.2 | 530.8 | 470.4 | 60.45 | 8.782 | |
| 8,050.0 | 7,752.8 | 7,781.0 | 7,702.4 | 30.4 | 32.1 | 88.54 | 83.5 | -807.1 | 550.8 | 490.5 | 60.29 | 9.136 | |
| 8,075.0 | 7,754.5 | 7,779.0 | 7,700.4 | 30.5 | 32.1 | 84.01 | 83.4 | -806.8 | 571.1 | 511.0 | 60.13 | 9.497 | |
| 8,095.4 | 7,755.0 | 7,776.4 | 7,697.9 | 30.5 | 32.1 | 80.07 | 83.3 | -806.4 | 587.9 | 527.9 | 60.01 | 9.797 | |
| 8,100.0 | 7,755.0 | 7,775.8 | 7,697.2 | 30.5 | 32.1 | 79.95 | 83.3 | -806.3 | 591.7 | 531.7 | 59.98 | 9.865 | |
| 8,200.0 | 7,755.0 | 7,761.0 | 7,682.6 | 30.9 | 32.0 | 77.51 | 82.6 | -804.1 | 676.7 | 617.3 | 59.47 | 11.380 | |
| 8,300.0 | 7,755.0 | 7,746.2 | 7,668.0 | 31.5 | 31.9 | 75.12 | 81.9 | -801.9 | 765.1 | 706.0 | 59.07 | 12.952 | |
| 8,400.0 | 7,755.0 | 7,731.4 | 7,653.4 | 32.2 | 31.9 | 72.80 | 81.2 | -799.8 | 855.8 | 797.0 | 58.76 | 14.563 | |
| 8,500.0 | 7,755.0 | 7,716.6 | 7,638.7 | 33.2 | 31.8 | 70.54 | 80.5 | -797.6 | 948.1 | 889.6 | 58.52 | 16.201 | |



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|---|---|---|---|
| **Company:** | NEW MEXICO | **Local Co-ordinate Reference:** | Well DONNIE BRASCO FED COM 173H |
| **Project:** | (SP) EDDY | **TVD Reference:** | KB @ 3335.0usft |
| **Reference Site:** | DONNIE BRASCO | **MD Reference:** | KB @ 3335.0usft |
| **Site Error:** | 0.0 usft | **North Reference:** | Grid |
| **Reference Well:** | DONNIE BRASCO FED COM 173H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.0 usft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | OWB | **Database:** | Compass_17 |
| **Reference Design:** | PWP0 | **Offset TVD Reference:** | Offset Datum |

**Offset Design:** DONNIE BRASCO - DONNIE BRASCO FED COM 214H - OWB - PWP0 — **Offset Site Error:** 0.0 usft

**Survey Program:** 0-MWD — **Rule Assigned:** — **Offset Well Error:** 0.0 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 Centre +N/-S (usft) | Offset Wellbore Centre +E/-W (usft) | Distance Between Centres (usft) | Distance Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 138.45 | -220.0 | 195.0 | 294.0 | | | | |
| 100.0 | 100.0 | 100.0 | 100.0 | 0.3 | 0.3 | 138.45 | -220.0 | 195.0 | 294.0 | 293.5 | 0.50 | 585.782 | |
| 200.0 | 200.0 | 200.0 | 200.0 | 0.6 | 0.6 | 138.45 | -220.0 | 195.0 | 294.0 | 292.8 | 1.22 | 241.205 | |
| 300.0 | 300.0 | 300.0 | 300.0 | 1.0 | 1.0 | 138.45 | -220.0 | 195.0 | 294.0 | 292.0 | 1.94 | 151.870 | |
| 400.0 | 400.0 | 400.0 | 400.0 | 1.3 | 1.3 | 138.45 | -220.0 | 195.0 | 294.0 | 291.3 | 2.65 | 110.824 | |
| 500.0 | 500.0 | 500.0 | 500.0 | 1.7 | 1.7 | 138.45 | -220.0 | 195.0 | 294.0 | 290.6 | 3.37 | 87.244 | |
| 600.0 | 600.0 | 600.0 | 600.0 | 2.0 | 2.0 | 138.45 | -220.0 | 195.0 | 294.0 | 289.9 | 4.09 | 71.938 | |
| 700.0 | 700.0 | 700.0 | 700.0 | 2.4 | 2.4 | 138.45 | -220.0 | 195.0 | 294.0 | 289.2 | 4.80 | 61.201 | |
| 800.0 | 800.0 | 800.0 | 800.0 | 2.8 | 2.8 | 138.45 | -220.0 | 195.0 | 294.0 | 288.5 | 5.52 | 53.253 | |
| 900.0 | 900.0 | 900.0 | 900.0 | 3.1 | 3.1 | 138.45 | -220.0 | 195.0 | 294.0 | 287.7 | 6.24 | 47.132 | |
| 1,000.0 | 1,000.0 | 1,000.0 | 1,000.0 | 3.5 | 3.5 | 138.45 | -220.0 | 195.0 | 294.0 | 287.0 | 6.95 | 42.273 | CC, ES |
| 1,100.0 | 1,100.0 | 1,099.9 | 1,099.9 | 3.8 | 3.8 | -158.41 | -221.2 | 193.7 | 295.6 | 288.0 | 7.65 | 38.635 | |
| 1,200.0 | 1,199.8 | 1,199.5 | 1,199.4 | 4.2 | 4.2 | -157.75 | -224.6 | 189.8 | 300.6 | 292.2 | 8.34 | 36.055 | |
| 1,300.0 | 1,299.5 | 1,298.7 | 1,298.2 | 4.5 | 4.5 | -156.69 | -230.4 | 183.4 | 308.9 | 299.9 | 9.03 | 34.206 | |
| 1,400.0 | 1,398.7 | 1,397.2 | 1,395.9 | 4.9 | 4.8 | -155.30 | -238.4 | 174.6 | 320.6 | 310.9 | 9.73 | 32.939 | |
| 1,443.1 | 1,441.3 | 1,439.4 | 1,437.7 | 5.1 | 5.0 | -154.62 | -242.5 | 170.0 | 326.8 | 316.8 | 10.04 | 32.534 | |
| 1,500.0 | 1,497.6 | 1,494.8 | 1,492.4 | 5.3 | 5.2 | -153.69 | -248.5 | 163.3 | 335.5 | 325.0 | 10.45 | 32.092 | |
| 1,600.0 | 1,596.4 | 1,591.7 | 1,587.5 | 5.7 | 5.6 | -151.77 | -260.7 | 149.8 | 351.2 | 340.0 | 11.19 | 31.397 | |
| 1,700.0 | 1,695.2 | 1,688.1 | 1,681.6 | 6.1 | 6.0 | -149.53 | -274.9 | 134.0 | 367.8 | 355.8 | 11.94 | 30.807 | |
| 1,800.0 | 1,794.0 | 1,785.6 | 1,776.5 | 6.5 | 6.4 | -147.35 | -289.8 | 117.5 | 385.0 | 372.3 | 12.71 | 30.283 | |
| 1,900.0 | 1,892.8 | 1,883.0 | 1,871.4 | 6.9 | 6.8 | -145.35 | -304.7 | 101.0 | 402.8 | 389.3 | 13.50 | 29.826 | |
| 2,000.0 | 1,991.6 | 1,980.5 | 1,966.2 | 7.3 | 7.2 | -143.52 | -319.5 | 84.5 | 421.0 | 406.7 | 14.31 | 29.429 | |
| 2,100.0 | 2,090.4 | 2,078.0 | 2,061.1 | 7.7 | 7.7 | -141.84 | -334.4 | 68.0 | 439.6 | 424.5 | 15.12 | 29.083 | |
| 2,200.0 | 2,189.2 | 2,175.4 | 2,156.0 | 8.1 | 8.1 | -140.30 | -349.3 | 51.5 | 458.6 | 442.6 | 15.93 | 28.781 | |
| 2,300.0 | 2,288.0 | 2,272.9 | 2,250.9 | 8.5 | 8.6 | -138.88 | -364.1 | 35.0 | 477.8 | 461.0 | 16.75 | 28.517 | |
| 2,400.0 | 2,386.8 | 2,370.3 | 2,345.8 | 8.9 | 9.0 | -137.57 | -379.0 | 18.5 | 497.3 | 479.7 | 17.58 | 28.284 | |
| 2,500.0 | 2,485.6 | 2,467.8 | 2,440.7 | 9.3 | 9.5 | -136.35 | -393.9 | 2.0 | 517.0 | 498.6 | 18.41 | 28.080 | |
| 2,600.0 | 2,584.4 | 2,565.3 | 2,535.6 | 9.7 | 10.0 | -135.23 | -408.7 | -14.5 | 537.0 | 517.7 | 19.25 | 27.899 | |
| 2,700.0 | 2,683.2 | 2,662.7 | 2,630.5 | 10.2 | 10.4 | -134.18 | -423.6 | -31.0 | 557.1 | 537.0 | 20.08 | 27.739 | |
| 2,800.0 | 2,782.0 | 2,760.2 | 2,725.4 | 10.6 | 10.9 | -133.21 | -438.5 | -47.5 | 577.4 | 556.5 | 20.92 | 27.596 | |
| 2,900.0 | 2,880.8 | 2,857.6 | 2,820.3 | 11.0 | 11.4 | -132.30 | -453.3 | -64.0 | 597.9 | 576.1 | 21.77 | 27.469 | |
| 3,000.0 | 2,979.6 | 2,955.1 | 2,915.2 | 11.4 | 11.9 | -131.46 | -468.2 | -80.5 | 618.5 | 595.9 | 22.61 | 27.356 | |
| 3,100.0 | 3,078.5 | 3,052.5 | 3,010.1 | 11.9 | 12.4 | -130.67 | -483.1 | -97.1 | 639.2 | 615.7 | 23.45 | 27.254 | |
| 3,200.0 | 3,177.3 | 3,150.0 | 3,105.0 | 12.3 | 12.8 | -129.92 | -497.9 | -113.6 | 660.0 | 635.7 | 24.30 | 27.163 | |
| 3,300.0 | 3,276.1 | 3,247.5 | 3,199.9 | 12.7 | 13.3 | -129.22 | -512.8 | -130.1 | 680.9 | 655.8 | 25.14 | 27.081 | |
| 3,400.0 | 3,374.9 | 3,344.9 | 3,294.8 | 13.1 | 13.8 | -128.57 | -527.6 | -146.6 | 701.9 | 675.9 | 25.99 | 27.006 | |
| 3,500.0 | 3,473.7 | 3,442.4 | 3,389.7 | 13.6 | 14.3 | -127.95 | -542.5 | -163.1 | 723.0 | 696.2 | 26.84 | 26.939 | |
| 3,600.0 | 3,572.5 | 3,539.8 | 3,484.5 | 14.0 | 14.8 | -127.37 | -557.4 | -179.6 | 744.2 | 716.5 | 27.69 | 26.878 | |
| 3,700.0 | 3,671.3 | 3,637.3 | 3,579.4 | 14.4 | 15.3 | -126.81 | -572.2 | -196.1 | 765.4 | 736.9 | 28.54 | 26.822 | |
| 3,800.0 | 3,770.1 | 3,734.8 | 3,674.3 | 14.8 | 15.8 | -126.29 | -587.1 | -212.6 | 786.7 | 757.3 | 29.39 | 26.771 | |
| 3,900.0 | 3,868.9 | 3,832.2 | 3,769.2 | 15.3 | 16.3 | -125.80 | -602.0 | -229.1 | 808.1 | 777.9 | 30.24 | 26.725 | |
| 4,000.0 | 3,967.7 | 3,929.7 | 3,864.1 | 15.7 | 16.7 | -125.33 | -616.8 | -245.6 | 829.5 | 798.4 | 31.09 | 26.683 | |
| 4,100.0 | 4,066.5 | 4,027.1 | 3,959.0 | 16.1 | 17.2 | -124.88 | -631.7 | -262.1 | 851.0 | 819.0 | 31.94 | 26.644 | |
| 4,200.0 | 4,165.3 | 4,124.6 | 4,053.9 | 16.5 | 17.7 | -124.46 | -646.6 | -278.6 | 872.5 | 839.7 | 32.79 | 26.608 | |
| 4,300.0 | 4,264.1 | 4,222.1 | 4,148.8 | 17.0 | 18.2 | -124.06 | -661.4 | -295.1 | 894.1 | 860.4 | 33.64 | 26.576 | |
| 4,400.0 | 4,362.9 | 4,319.5 | 4,243.7 | 17.4 | 18.7 | -123.67 | -676.3 | -311.6 | 915.7 | 881.2 | 34.49 | 26.545 | |
| 4,500.0 | 4,461.7 | 4,417.0 | 4,338.6 | 17.8 | 19.2 | -123.31 | -691.2 | -328.1 | 937.3 | 901.9 | 35.35 | 26.518 | |
| 4,600.0 | 4,560.5 | 4,514.4 | 4,433.5 | 18.3 | 19.7 | -122.96 | -706.0 | -344.6 | 959.0 | 922.8 | 36.20 | 26.492 | |
| 4,700.0 | 4,659.4 | 4,611.9 | 4,528.4 | 18.7 | 20.2 | -122.62 | -720.9 | -361.1 | 980.7 | 943.6 | 37.05 | 26.468 | SF |



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| | | | |
|---|---|---|---|
| **Company:** | NEW MEXICO | **Local Co-ordinate Reference:** | Well DONNIE BRASCO FED COM 173H |
| **Project:** | (SP) EDDY | **TVD Reference:** | KB @ 3335.0usft |
| **Reference Site:** | DONNIE BRASCO | **MD Reference:** | KB @ 3335.0usft |
| **Site Error:** | 0.0 usft | **North Reference:** | Grid |
| **Reference Well:** | DONNIE BRASCO FED COM 173H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.0 usft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | OWB | **Database:** | Compass_17 |
| **Reference Design:** | PWP0 | **Offset TVD Reference:** | Offset Datum |

**Offset Design:** DONNIE BRASCO - DONNIE BRASCO FED COM 423H - OWB - PWP0

**Offset Site Error:** 0.0 usft

**Survey Program:** 0-MWD

**Offset Well Error:** 0.0 usft

**Rule Assigned:**

| 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 Centre +N/-S (usft) | Offset Wellbore Centre +E/-W (usft) | Distance Between Centres (usft) | Distance Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 90.00 | 0.0 | 105.0 | 105.0 | | | | |
| 100.0 | 100.0 | 100.0 | 100.0 | 0.3 | 0.3 | 90.00 | 0.0 | 105.0 | 105.0 | 104.5 | 0.50 | 209.221 | |
| 200.0 | 200.0 | 200.0 | 200.0 | 0.6 | 0.6 | 90.00 | 0.0 | 105.0 | 105.0 | 103.8 | 1.22 | 86.150 | |
| 300.0 | 300.0 | 300.0 | 300.0 | 1.0 | 1.0 | 90.00 | 0.0 | 105.0 | 105.0 | 103.1 | 1.94 | 54.243 | |
| 400.0 | 400.0 | 400.0 | 400.0 | 1.3 | 1.3 | 90.00 | 0.0 | 105.0 | 105.0 | 102.3 | 2.65 | 39.582 | |
| 500.0 | 500.0 | 500.0 | 500.0 | 1.7 | 1.7 | 90.00 | 0.0 | 105.0 | 105.0 | 101.6 | 3.37 | 31.161 | |
| 600.0 | 600.0 | 600.0 | 600.0 | 2.0 | 2.0 | 90.00 | 0.0 | 105.0 | 105.0 | 100.9 | 4.09 | 25.694 | |
| 700.0 | 700.0 | 700.0 | 700.0 | 2.4 | 2.4 | 90.00 | 0.0 | 105.0 | 105.0 | 100.2 | 4.80 | 21.859 | |
| 800.0 | 800.0 | 800.0 | 800.0 | 2.8 | 2.8 | 90.00 | 0.0 | 105.0 | 105.0 | 99.5 | 5.52 | 19.020 | |
| 900.0 | 900.0 | 900.0 | 900.0 | 3.1 | 3.1 | 90.00 | 0.0 | 105.0 | 105.0 | 98.8 | 6.24 | 16.834 | |
| 1,000.0 | 1,000.0 | 1,000.0 | 1,000.0 | 3.5 | 3.5 | 90.00 | 0.0 | 105.0 | 105.0 | 98.0 | 6.95 | 15.098 | |
| 1,100.0 | 1,100.0 | 1,103.5 | 1,103.5 | 3.8 | 3.8 | 152.99 | 0.7 | 103.3 | 104.9 | 97.2 | 7.67 | 13.673 | |
| 1,200.0 | 1,199.8 | 1,207.1 | 1,206.9 | 4.2 | 4.2 | 153.23 | 2.7 | 98.0 | 104.5 | 96.1 | 8.37 | 12.483 | |
| 1,300.0 | 1,299.5 | 1,310.6 | 1,310.0 | 4.5 | 4.6 | 153.64 | 6.1 | 89.3 | 103.8 | 94.8 | 9.07 | 11.455 | |
| 1,400.0 | 1,398.7 | 1,414.1 | 1,412.6 | 4.9 | 5.0 | 154.22 | 10.8 | 77.2 | 102.9 | 93.2 | 9.75 | 10.553 | |
| 1,443.1 | 1,441.3 | 1,458.6 | 1,456.6 | 5.1 | 5.1 | 154.52 | 13.3 | 70.9 | 102.5 | 92.4 | 10.05 | 10.196 | |
| 1,500.0 | 1,497.6 | 1,515.5 | 1,512.8 | 5.3 | 5.3 | 154.93 | 16.5 | 62.5 | 101.9 | 91.5 | 10.46 | 9.745 | |
| 1,600.0 | 1,596.4 | 1,615.4 | 1,611.5 | 5.7 | 5.7 | 155.68 | 22.3 | 47.7 | 100.9 | 89.8 | 11.18 | 9.031 | |
| 1,700.0 | 1,695.2 | 1,715.4 | 1,710.2 | 6.1 | 6.1 | 156.44 | 28.0 | 33.0 | 100.0 | 88.1 | 11.90 | 8.401 | |
| 1,800.0 | 1,794.0 | 1,815.4 | 1,809.0 | 6.5 | 6.5 | 157.21 | 33.8 | 18.2 | 99.0 | 86.4 | 12.63 | 7.842 | |
| 1,900.0 | 1,892.8 | 1,915.4 | 1,907.7 | 6.9 | 6.9 | 158.00 | 39.5 | 3.5 | 98.1 | 84.7 | 13.35 | 7.344 | |
| 2,000.0 | 1,991.6 | 2,015.4 | 2,006.4 | 7.3 | 7.3 | 158.80 | 45.2 | -11.3 | 97.2 | 83.1 | 14.09 | 6.897 | |
| 2,100.0 | 2,090.4 | 2,115.4 | 2,105.1 | 7.7 | 7.7 | 159.62 | 51.0 | -26.0 | 96.3 | 81.4 | 14.82 | 6.496 | |
| 2,200.0 | 2,189.2 | 2,215.4 | 2,203.9 | 8.1 | 8.2 | 160.45 | 56.7 | -40.8 | 95.4 | 79.8 | 15.55 | 6.133 | |
| 2,300.0 | 2,288.0 | 2,315.3 | 2,302.6 | 8.5 | 8.6 | 161.30 | 62.4 | -55.5 | 94.5 | 78.2 | 16.29 | 5.804 | |
| 2,400.0 | 2,386.8 | 2,415.3 | 2,401.3 | 8.9 | 9.0 | 162.16 | 68.2 | -70.3 | 93.7 | 76.7 | 17.02 | 5.504 | |
| 2,500.0 | 2,485.6 | 2,515.3 | 2,500.0 | 9.3 | 9.4 | 163.04 | 73.9 | -85.0 | 92.9 | 75.1 | 17.76 | 5.230 | |
| 2,600.0 | 2,584.4 | 2,615.3 | 2,598.8 | 9.7 | 9.8 | 163.93 | 79.7 | -99.8 | 92.1 | 73.6 | 18.49 | 4.979 | |
| 2,700.0 | 2,683.2 | 2,715.3 | 2,697.5 | 10.2 | 10.3 | 164.84 | 85.4 | -114.5 | 91.3 | 72.1 | 19.23 | 4.749 | |
| 2,800.0 | 2,782.0 | 2,815.3 | 2,796.2 | 10.6 | 10.7 | 165.77 | 91.1 | -129.3 | 90.6 | 70.6 | 19.96 | 4.536 | |
| 2,900.0 | 2,880.8 | 2,915.3 | 2,894.9 | 11.0 | 11.1 | 166.71 | 96.9 | -144.0 | 89.8 | 69.1 | 20.70 | 4.340 | |
| 3,000.0 | 2,979.6 | 3,015.3 | 2,993.7 | 11.4 | 11.5 | 167.66 | 102.6 | -158.8 | 89.2 | 67.7 | 21.44 | 4.158 | |
| 3,100.0 | 3,078.5 | 3,115.2 | 3,092.4 | 11.9 | 12.0 | 168.63 | 108.3 | -173.5 | 88.5 | 66.3 | 22.18 | 3.990 | |
| 3,200.0 | 3,177.3 | 3,215.2 | 3,191.1 | 12.3 | 12.4 | 169.61 | 114.1 | -188.3 | 87.8 | 64.9 | 22.91 | 3.833 | |
| 3,300.0 | 3,276.1 | 3,315.2 | 3,289.8 | 12.7 | 12.8 | 170.61 | 119.8 | -203.0 | 87.2 | 63.6 | 23.65 | 3.687 | |
| 3,400.0 | 3,374.9 | 3,415.2 | 3,388.6 | 13.1 | 13.3 | 171.62 | 125.6 | -217.8 | 86.6 | 62.2 | 24.39 | 3.551 | |
| 3,500.0 | 3,473.7 | 3,515.2 | 3,487.3 | 13.6 | 13.7 | 172.65 | 131.3 | -232.5 | 86.1 | 60.9 | 25.14 | 3.424 | |
| 3,600.0 | 3,572.5 | 3,615.2 | 3,586.0 | 14.0 | 14.1 | 173.69 | 137.0 | -247.3 | 85.5 | 59.6 | 25.88 | 3.305 | |
| 3,700.0 | 3,671.3 | 3,715.2 | 3,684.7 | 14.4 | 14.5 | 174.74 | 142.8 | -262.0 | 85.0 | 58.4 | 26.62 | 3.193 | |
| 3,800.0 | 3,770.1 | 3,815.1 | 3,783.5 | 14.8 | 15.0 | 175.80 | 148.5 | -276.8 | 84.5 | 57.2 | 27.37 | 3.088 | |
| 3,900.0 | 3,868.9 | 3,915.1 | 3,882.2 | 15.3 | 15.4 | 176.88 | 154.3 | -291.5 | 84.1 | 56.0 | 28.12 | 2.990 | |
| 4,000.0 | 3,967.7 | 4,015.1 | 3,980.9 | 15.7 | 15.8 | 177.97 | 160.0 | -306.3 | 83.7 | 54.8 | 28.87 | 2.898 | |
| 4,100.0 | 4,066.5 | 4,115.1 | 4,079.7 | 16.1 | 16.3 | 179.07 | 165.7 | -321.0 | 83.3 | 53.6 | 29.62 | 2.811 | |
| 4,200.0 | 4,165.3 | 4,215.1 | 4,178.4 | 16.5 | 16.7 | -179.83 | 171.5 | -335.8 | 82.9 | 52.5 | 30.38 | 2.729 | |
| 4,300.0 | 4,264.1 | 4,315.1 | 4,277.1 | 17.0 | 17.1 | -178.71 | 177.2 | -350.5 | 82.6 | 51.4 | 31.14 | 2.652 | |
| 4,400.0 | 4,362.9 | 4,415.1 | 4,375.8 | 17.4 | 17.6 | -177.59 | 182.9 | -365.3 | 82.3 | 50.4 | 31.91 | 2.579 | |
| 4,500.0 | 4,461.7 | 4,515.0 | 4,474.6 | 17.8 | 18.0 | -176.45 | 188.7 | -380.0 | 82.0 | 49.3 | 32.68 | 2.510 | |
| 4,600.0 | 4,560.5 | 4,615.0 | 4,573.3 | 18.3 | 18.4 | -175.31 | 194.4 | -394.8 | 81.8 | 48.3 | 33.45 | 2.445 | |
| 4,700.0 | 4,659.4 | 4,715.0 | 4,672.0 | 18.7 | 18.9 | -174.17 | 200.2 | -409.5 | 81.6 | 47.4 | 34.23 | 2.384 | |
| 4,800.0 | 4,758.2 | 4,815.0 | 4,770.7 | 19.1 | 19.3 | -173.02 | 205.9 | -424.3 | 81.4 | 46.4 | 35.01 | 2.326 | |
| 4,900.0 | 4,857.0 | 4,915.0 | 4,869.5 | 19.6 | 19.7 | -171.86 | 211.6 | -439.0 | 81.3 | 45.5 | 35.80 | 2.271 | |
| 5,000.0 | 4,955.8 | 5,015.0 | 4,968.2 | 20.0 | 20.2 | -170.70 | 217.4 | -453.8 | 81.2 | 44.6 | 36.59 | 2.219 | |

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

| | | | |
|---|---|---|---|
| **Company:** | NEW MEXICO | **Local Co-ordinate Reference:** | Well DONNIE BRASCO FED COM 173H |
| **Project:** | (SP) EDDY | **TVD Reference:** | KB @ 3335.0usft |
| **Reference Site:** | DONNIE BRASCO | **MD Reference:** | KB @ 3335.0usft |
| **Site Error:** | 0.0 usft | **North Reference:** | Grid |
| **Reference Well:** | DONNIE BRASCO FED COM 173H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.0 usft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | OWB | **Database:** | Compass_17 |
| **Reference Design:** | PWP0 | **Offset TVD Reference:** | Offset Datum |

**Offset Design:** DONNIE BRASCO - DONNIE BRASCO FED COM 423H - OWB - PWP0 — **Offset Site Error:** 0.0 usft

**Survey Program:** 0-MWD — **Rule Assigned:** — **Offset Well Error:** 0.0 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 Centre +N/-S (usft) | Offset Wellbore Centre +E/-W (usft) | Distance Between Centres (usft) | Distance Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5,100.0 | 5,054.6 | 5,115.0 | 5,066.9 | 20.4 | 20.6 | -169.54 | 223.1 | -468.6 | 81.1 | 43.7 | 37.39 | 2.170 | |
| 5,200.0 | 5,153.4 | 5,215.0 | 5,165.6 | 20.8 | 21.0 | -168.38 | 228.8 | -483.3 | 81.1 | 42.9 | 38.19 | 2.123 | |
| 5,251.6 | 5,204.4 | 5,266.5 | 5,216.6 | 21.1 | 21.3 | -167.78 | 231.8 | -490.9 | 81.1 | 42.5 | 38.61 | 2.100 | |
| 5,300.0 | 5,252.2 | 5,314.9 | 5,264.4 | 21.3 | 21.5 | -167.22 | 234.6 | -498.1 | 81.1 | 42.1 | 39.00 | 2.079 | |
| 5,400.0 | 5,351.0 | 5,414.9 | 5,363.1 | 21.7 | 21.9 | -166.05 | 240.3 | -512.8 | 81.1 | 41.3 | 39.82 | 2.037 | |
| 5,500.0 | 5,449.8 | 5,514.9 | 5,461.8 | 22.1 | 22.3 | -164.89 | 246.1 | -527.6 | 81.2 | 40.6 | 40.64 | 1.998 | |
| 5,600.0 | 5,548.6 | 5,614.9 | 5,560.5 | 22.6 | 22.8 | -163.73 | 251.8 | -542.3 | 81.3 | 39.8 | 41.46 | 1.960 | |
| 5,700.0 | 5,647.4 | 5,714.9 | 5,659.3 | 23.0 | 23.2 | -162.58 | 257.5 | -557.1 | 81.4 | 39.1 | 42.30 | 1.925 | |
| 5,800.0 | 5,746.2 | 5,814.9 | 5,758.0 | 23.4 | 23.7 | -161.43 | 263.3 | -571.8 | 81.6 | 38.4 | 43.14 | 1.891 | |
| 5,900.0 | 5,845.0 | 5,914.9 | 5,856.7 | 23.9 | 24.1 | -160.28 | 269.0 | -586.6 | 81.8 | 37.8 | 43.98 | 1.860 | |
| 6,000.0 | 5,943.8 | 6,014.8 | 5,955.4 | 24.3 | 24.5 | -159.14 | 274.8 | -601.3 | 82.0 | 37.2 | 44.83 | 1.829 | |
| 6,100.0 | 6,042.6 | 6,114.8 | 6,054.2 | 24.7 | 25.0 | -158.01 | 280.5 | -616.1 | 82.3 | 36.6 | 45.69 | 1.801 | |
| 6,200.0 | 6,141.4 | 6,214.8 | 6,152.9 | 25.2 | 25.4 | -156.88 | 286.2 | -630.8 | 82.6 | 36.0 | 46.55 | 1.774 | |
| 6,300.0 | 6,240.3 | 6,314.8 | 6,251.6 | 25.6 | 25.8 | -155.77 | 292.0 | -645.6 | 82.9 | 35.5 | 47.42 | 1.748 | |
| 6,400.0 | 6,339.1 | 6,414.8 | 6,350.3 | 26.0 | 26.3 | -154.66 | 297.7 | -660.3 | 83.3 | 35.0 | 48.29 | 1.724 | |
| 6,500.0 | 6,437.9 | 6,514.8 | 6,449.1 | 26.4 | 26.7 | -153.56 | 303.4 | -675.1 | 83.6 | 34.5 | 49.17 | 1.701 | |
| 6,600.0 | 6,536.7 | 6,614.8 | 6,547.8 | 26.9 | 27.1 | -152.47 | 309.2 | -689.8 | 84.1 | 34.0 | 50.05 | 1.680 | |
| 6,700.0 | 6,635.5 | 6,714.8 | 6,646.5 | 27.3 | 27.6 | -151.40 | 314.9 | -704.6 | 84.5 | 33.6 | 50.94 | 1.659 | |
| 6,800.0 | 6,734.3 | 6,814.7 | 6,745.2 | 27.7 | 28.0 | -150.33 | 320.7 | -719.3 | 85.0 | 33.2 | 51.83 | 1.640 | |
| 6,834.8 | 6,768.7 | 6,849.5 | 6,779.6 | 27.9 | 28.2 | -149.97 | 322.7 | -724.4 | 85.2 | 33.0 | 52.15 | 1.633 | |
| 6,900.0 | 6,833.2 | 6,914.7 | 6,844.0 | 28.2 | 28.4 | -149.02 | 326.4 | -734.1 | 84.9 | 32.1 | 52.75 | 1.609 | |
| 7,000.0 | 6,932.5 | 7,014.6 | 6,942.6 | 28.6 | 28.9 | -146.46 | 332.1 | -748.8 | 82.0 | 28.2 | 53.80 | 1.525 | |
| 7,100.0 | 7,032.2 | 7,114.3 | 7,041.0 | 28.9 | 29.3 | -142.15 | 337.8 | -763.5 | 76.6 | 21.6 | 55.02 | 1.392 Level 3 | |
| 7,200.0 | 7,132.1 | 7,213.6 | 7,139.1 | 29.3 | 29.8 | -135.24 | 343.5 | -778.2 | 69.1 | 12.6 | 56.52 | 1.222 Level 3 | |
| 7,277.9 | 7,210.0 | 7,290.7 | 7,215.2 | 29.5 | 30.1 | 169.96 | 348.0 | -789.5 | 62.6 | 4.7 | 57.92 | 1.081 Level 3 | |
| 7,300.0 | 7,232.1 | 7,312.5 | 7,236.7 | 29.6 | 30.2 | 172.75 | 349.2 | -792.7 | 60.8 | 2.5 | 58.34 | 1.043 Level 3 | |
| 7,345.4 | 7,277.5 | 7,357.3 | 7,281.0 | 29.7 | 30.4 | 178.97 | 351.8 | -799.4 | 57.7 | -1.5 | 59.20 | 0.975 Level 3 | |
| 7,350.0 | 7,282.1 | 7,361.9 | 7,285.5 | 29.8 | 30.4 | 90.10 | 352.1 | -800.0 | 57.4 | -1.9 | 59.28 | 0.969 Level 3 | |
| 7,375.0 | 7,307.1 | 7,386.4 | 7,309.7 | 29.8 | 30.5 | 94.83 | 353.5 | -803.7 | 56.1 | -3.6 | 59.77 | 0.939 Level 3 | |
| 7,400.0 | 7,332.0 | 7,410.7 | 7,333.7 | 29.9 | 30.6 | 100.88 | 354.9 | -807.2 | 55.5 | -4.8 | 60.25 | 0.921 Level 3 | |
| 7,405.1 | 7,337.1 | 7,415.6 | 7,338.5 | 29.9 | 30.6 | 102.25 | 355.1 | -808.0 | 55.5 | -4.9 | 60.33 | 0.919 Level 3, CC, ES, SF | |
| 7,425.0 | 7,356.7 | 7,434.6 | 7,357.3 | 29.9 | 30.7 | 107.97 | 356.2 | -810.8 | 55.8 | -4.8 | 60.61 | 0.921 Level 3 | |
| 7,450.0 | 7,381.3 | 7,458.1 | 7,380.5 | 30.0 | 30.8 | 115.66 | 357.6 | -814.2 | 57.7 | -3.0 | 60.75 | 0.950 Level 3 | |
| 7,475.0 | 7,405.5 | 7,481.2 | 7,403.3 | 30.0 | 30.9 | 123.39 | 358.9 | -817.6 | 61.4 | 0.8 | 60.62 | 1.013 Level 3 | |
| 7,500.0 | 7,429.4 | 7,503.7 | 7,425.5 | 30.1 | 31.0 | 130.65 | 360.2 | -821.0 | 67.2 | 6.9 | 60.26 | 1.114 Level 3 | |
| 7,525.0 | 7,452.9 | 7,525.6 | 7,447.2 | 30.1 | 31.1 | 137.10 | 361.5 | -824.2 | 75.0 | 15.2 | 59.80 | 1.254 Level 3 | |
| 7,550.0 | 7,475.9 | 7,546.9 | 7,468.2 | 30.1 | 31.2 | 142.61 | 362.7 | -827.3 | 84.8 | 25.4 | 59.32 | 1.429 Level 3 | |
| 7,575.0 | 7,498.4 | 7,567.4 | 7,488.5 | 30.1 | 31.3 | 147.19 | 363.9 | -830.4 | 96.3 | 37.4 | 58.89 | 1.636 | |
| 7,600.0 | 7,520.2 | 7,587.2 | 7,508.0 | 30.2 | 31.4 | 150.94 | 365.0 | -833.3 | 109.5 | 51.0 | 58.54 | 1.871 | |
| 7,625.0 | 7,541.4 | 7,606.2 | 7,526.7 | 30.2 | 31.5 | 153.98 | 366.1 | -836.1 | 124.2 | 65.9 | 58.26 | 2.131 | |
| 7,650.0 | 7,561.9 | 7,624.3 | 7,544.6 | 30.2 | 31.5 | 156.42 | 367.1 | -838.7 | 140.1 | 82.1 | 58.05 | 2.414 | |
| 7,675.0 | 7,581.5 | 7,641.5 | 7,561.5 | 30.2 | 31.6 | 158.36 | 368.1 | -841.3 | 157.3 | 99.4 | 57.90 | 2.716 | |
| 7,700.0 | 7,600.4 | 7,657.7 | 7,577.5 | 30.2 | 31.7 | 159.87 | 369.0 | -843.7 | 175.5 | 117.7 | 57.78 | 3.037 | |
| 7,725.0 | 7,618.4 | 7,672.8 | 7,592.5 | 30.2 | 31.8 | 161.02 | 369.9 | -845.9 | 194.6 | 136.9 | 57.70 | 3.374 | |
| 7,750.0 | 7,635.4 | 7,687.0 | 7,606.5 | 30.2 | 31.8 | 161.84 | 370.7 | -848.0 | 214.7 | 157.1 | 57.63 | 3.726 | |
| 7,775.0 | 7,651.4 | 7,700.0 | 7,619.3 | 30.2 | 31.9 | 162.36 | 371.5 | -849.9 | 235.6 | 178.0 | 57.59 | 4.091 | |
| 7,800.0 | 7,666.5 | 7,711.9 | 7,631.1 | 30.2 | 31.9 | 162.56 | 372.1 | -851.7 | 257.2 | 199.7 | 57.56 | 4.469 | |
| 7,825.0 | 7,680.4 | 7,722.6 | 7,641.7 | 30.2 | 32.0 | 162.44 | 372.8 | -853.3 | 279.5 | 222.0 | 57.53 | 4.858 | |
| 7,850.0 | 7,693.3 | 7,732.2 | 7,651.1 | 30.2 | 32.0 | 161.94 | 373.3 | -854.7 | 302.3 | 244.8 | 57.51 | 5.257 | |
| 7,875.0 | 7,705.0 | 7,740.5 | 7,659.3 | 30.2 | 32.1 | 160.94 | 373.8 | -855.9 | 325.7 | 268.2 | 57.50 | 5.665 | |
| 7,900.0 | 7,715.5 | 7,747.6 | 7,666.3 | 30.2 | 32.1 | 159.25 | 374.2 | -856.9 | 349.5 | 292.0 | 57.48 | 6.080 | |
| 7,925.0 | 7,724.9 | 7,753.4 | 7,672.0 | 30.2 | 32.1 | 156.49 | 374.5 | -857.8 | 373.7 | 316.2 | 57.47 | 6.502 | |

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| | | | |
|---|---|---|---|
| **Company:** | NEW MEXICO | **Local Co-ordinate Reference:** | Well DONNIE BRASCO FED COM 173H |
| **Project:** | (SP) EDDY | **TVD Reference:** | KB @ 3335.0usft |
| **Reference Site:** | DONNIE BRASCO | **MD Reference:** | KB @ 3335.0usft |
| **Site Error:** | 0.0 usft | **North Reference:** | Grid |
| **Reference Well:** | DONNIE BRASCO FED COM 173H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.0 usft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | OWB | **Database:** | Compass_17 |
| **Reference Design:** | PWP0 | **Offset TVD Reference:** | Offset Datum |

**Offset Design:** DONNIE BRASCO - DONNIE BRASCO FED COM 423H - OWB - PWP0

**Offset Site Error:** 0.0 usft

**Survey Program:** 0-MWD

**Offset Well Error:** 0.0 usft

**Rule Assigned:**

| 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 Centre +N/-S (usft) | Offset Wellbore Centre +E/-W (usft) | Distance Between Centres (usft) | Distance Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7,950.0 | 7,733.0 | 7,757.9 | 7,676.5 | 30.2 | 32.1 | 151.84 | 374.8 | -858.5 | 398.1 | 340.7 | 57.45 | 6.929 | |
| 7,975.0 | 7,739.9 | 7,761.2 | 7,679.7 | 30.3 | 32.1 | 143.44 | 375.0 | -858.9 | 422.8 | 365.4 | 57.44 | 7.361 | |
| 8,000.0 | 7,745.5 | 7,763.1 | 7,681.7 | 30.3 | 32.1 | 126.57 | 375.1 | -859.2 | 447.6 | 390.2 | 57.42 | 7.795 | |
| 8,025.0 | 7,749.8 | 7,763.7 | 7,682.3 | 30.4 | 32.2 | 92.98 | 375.1 | -859.3 | 472.6 | 415.2 | 57.41 | 8.232 | |
| 8,050.0 | 7,752.8 | 7,763.1 | 7,681.6 | 30.4 | 32.1 | 54.43 | 375.1 | -859.2 | 497.5 | 440.1 | 57.39 | 8.669 | |
| 8,075.0 | 7,754.5 | 7,761.1 | 7,679.7 | 30.5 | 32.1 | 32.80 | 375.0 | -858.9 | 522.4 | 465.0 | 57.37 | 9.106 | |
| 8,095.4 | 7,755.0 | 7,758.5 | 7,677.1 | 30.5 | 32.1 | 23.69 | 374.8 | -858.5 | 542.6 | 485.2 | 57.35 | 9.461 | |
| 8,100.0 | 7,755.0 | 7,757.9 | 7,676.5 | 30.5 | 32.1 | 23.54 | 374.8 | -858.4 | 547.1 | 489.8 | 57.34 | 9.541 | |
| 8,200.0 | 7,755.0 | 7,743.1 | 7,662.0 | 30.9 | 32.1 | 20.64 | 373.9 | -856.3 | 645.9 | 588.6 | 57.27 | 11.278 | |
| 8,300.0 | 7,755.0 | 7,728.4 | 7,647.4 | 31.5 | 32.0 | 18.46 | 373.1 | -854.1 | 744.7 | 687.5 | 57.21 | 13.018 | |
| 8,400.0 | 7,755.0 | 7,713.7 | 7,632.9 | 32.2 | 31.9 | 16.76 | 372.2 | -851.9 | 843.6 | 786.4 | 57.16 | 14.759 | |
| 8,500.0 | 7,755.0 | 7,699.0 | 7,618.4 | 33.2 | 31.9 | 15.40 | 371.4 | -849.8 | 942.4 | 885.3 | 57.11 | 16.502 | |

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| | | | |
|---|---|---|---|
| **Company:** | NEW MEXICO | **Local Co-ordinate Reference:** | Well DONNIE BRASCO FED COM 173H |
| **Project:** | (SP) EDDY | **TVD Reference:** | KB @ 3335.0usft |
| **Reference Site:** | DONNIE BRASCO | **MD Reference:** | KB @ 3335.0usft |
| **Site Error:** | 0.0 usft | **North Reference:** | Grid |
| **Reference Well:** | DONNIE BRASCO FED COM 173H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.0 usft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | OWB | **Database:** | Compass_17 |
| **Reference Design:** | PWP0 | **Offset TVD Reference:** | Offset Datum |

**Offset Design:** DONNIE BRASCO - DONNIE BRASCO FED COM 424H - OWB - PWP0

**Offset Site Error:** 0.0 usft

**Survey Program:** 0-MWD

**Offset Well Error:** 0.0 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 Centre +N/-S (usft) | Offset Wellbore Centre +E/-W (usft) | Rule Assigned: Distance Between Centres (usft) | Distance Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 90.00 | 0.0 | 135.0 | 135.0 | | | | |
| 100.0 | 100.0 | 100.0 | 100.0 | 0.3 | 0.3 | 90.00 | 0.0 | 135.0 | 135.0 | 134.5 | 0.50 | 268.999 | |
| 200.0 | 200.0 | 200.0 | 200.0 | 0.6 | 0.6 | 90.00 | 0.0 | 135.0 | 135.0 | 133.8 | 1.22 | 110.764 | |
| 300.0 | 300.0 | 300.0 | 300.0 | 1.0 | 1.0 | 90.00 | 0.0 | 135.0 | 135.0 | 133.1 | 1.94 | 69.741 | |
| 400.0 | 400.0 | 400.0 | 400.0 | 1.3 | 1.3 | 90.00 | 0.0 | 135.0 | 135.0 | 132.3 | 2.65 | 50.892 | |
| 500.0 | 500.0 | 500.0 | 500.0 | 1.7 | 1.7 | 90.00 | 0.0 | 135.0 | 135.0 | 131.6 | 3.37 | 40.064 | |
| 600.0 | 600.0 | 600.0 | 600.0 | 2.0 | 2.0 | 90.00 | 0.0 | 135.0 | 135.0 | 130.9 | 4.09 | 33.035 | |
| 700.0 | 700.0 | 700.0 | 700.0 | 2.4 | 2.4 | 90.00 | 0.0 | 135.0 | 135.0 | 130.2 | 4.80 | 28.104 | |
| 800.0 | 800.0 | 800.0 | 800.0 | 2.8 | 2.8 | 90.00 | 0.0 | 135.0 | 135.0 | 129.5 | 5.52 | 24.454 | |
| 900.0 | 900.0 | 900.0 | 900.0 | 3.1 | 3.1 | 90.00 | 0.0 | 135.0 | 135.0 | 128.8 | 6.24 | 21.644 | |
| 1,000.0 | 1,000.0 | 1,000.0 | 1,000.0 | 3.5 | 3.5 | 90.00 | 0.0 | 135.0 | 135.0 | 128.0 | 6.95 | 19.412 CC | |
| 1,100.0 | 1,100.0 | 1,103.7 | 1,103.7 | 3.8 | 3.8 | 153.78 | -1.2 | 133.6 | 135.2 | 127.5 | 7.66 | 17.645 ES | |
| 1,200.0 | 1,199.8 | 1,207.1 | 1,206.9 | 4.2 | 4.2 | 156.34 | -4.9 | 129.3 | 135.9 | 127.6 | 8.35 | 16.281 | |
| 1,300.0 | 1,299.5 | 1,310.0 | 1,309.4 | 4.5 | 4.5 | 160.50 | -10.9 | 122.3 | 137.8 | 128.7 | 9.04 | 15.237 | |
| 1,400.0 | 1,398.7 | 1,412.2 | 1,410.8 | 4.9 | 4.9 | 166.04 | -19.2 | 112.5 | 141.5 | 131.8 | 9.75 | 14.518 | |
| 1,443.1 | 1,441.3 | 1,456.0 | 1,454.1 | 5.1 | 5.1 | 168.77 | -23.5 | 107.5 | 143.9 | 133.9 | 10.06 | 14.312 | |
| 1,500.0 | 1,497.6 | 1,513.5 | 1,510.8 | 5.3 | 5.3 | 172.57 | -29.8 | 100.1 | 147.5 | 137.0 | 10.47 | 14.090 | |
| 1,600.0 | 1,596.4 | 1,612.8 | 1,608.2 | 5.7 | 5.7 | 179.42 | -42.1 | 85.8 | 154.4 | 143.1 | 11.22 | 13.762 | |
| 1,700.0 | 1,695.2 | 1,710.8 | 1,704.4 | 6.1 | 6.0 | -174.35 | -54.4 | 71.3 | 163.1 | 151.1 | 11.98 | 13.613 | |
| 1,800.0 | 1,794.0 | 1,808.9 | 1,800.6 | 6.5 | 6.4 | -168.78 | -66.8 | 56.9 | 173.6 | 160.9 | 12.76 | 13.608 SF | |
| 1,900.0 | 1,892.8 | 1,907.0 | 1,896.9 | 6.9 | 6.9 | -163.88 | -79.1 | 42.4 | 185.6 | 172.1 | 13.55 | 13.701 | |
| 2,000.0 | 1,991.6 | 2,005.1 | 1,993.1 | 7.3 | 7.3 | -159.59 | -91.5 | 28.0 | 198.8 | 184.5 | 14.35 | 13.859 | |
| 2,100.0 | 2,090.4 | 2,103.1 | 2,089.3 | 7.7 | 7.7 | -155.84 | -103.8 | 13.6 | 213.0 | 197.9 | 15.15 | 14.060 | |
| 2,200.0 | 2,189.2 | 2,201.2 | 2,185.5 | 8.1 | 8.1 | -152.56 | -116.2 | -0.9 | 228.0 | 212.0 | 15.96 | 14.285 | |
| 2,300.0 | 2,288.0 | 2,299.3 | 2,281.7 | 8.5 | 8.6 | -149.69 | -128.5 | -15.3 | 243.6 | 226.8 | 16.77 | 14.525 | |
| 2,400.0 | 2,386.8 | 2,397.3 | 2,377.9 | 8.9 | 9.0 | -147.16 | -140.9 | -29.7 | 259.8 | 242.2 | 17.59 | 14.769 | |
| 2,500.0 | 2,485.6 | 2,495.4 | 2,474.1 | 9.3 | 9.4 | -144.93 | -153.2 | -44.2 | 276.3 | 257.9 | 18.41 | 15.013 | |
| 2,600.0 | 2,584.4 | 2,593.5 | 2,570.4 | 9.7 | 9.9 | -142.96 | -165.6 | -58.6 | 293.3 | 274.1 | 19.23 | 15.254 | |
| 2,700.0 | 2,683.2 | 2,691.6 | 2,666.6 | 10.2 | 10.3 | -141.19 | -177.9 | -73.1 | 310.6 | 290.5 | 20.05 | 15.488 | |
| 2,800.0 | 2,782.0 | 2,789.6 | 2,762.8 | 10.6 | 10.8 | -139.62 | -190.2 | -87.5 | 328.1 | 307.2 | 20.88 | 15.715 | |
| 2,900.0 | 2,880.8 | 2,887.7 | 2,859.0 | 11.0 | 11.2 | -138.20 | -202.6 | -101.9 | 345.8 | 324.1 | 21.70 | 15.934 | |
| 3,000.0 | 2,979.6 | 2,985.8 | 2,955.2 | 11.4 | 11.7 | -136.93 | -214.9 | -116.4 | 363.7 | 341.2 | 22.53 | 16.144 | |
| 3,100.0 | 3,078.5 | 3,083.8 | 3,051.4 | 11.9 | 12.1 | -135.77 | -227.3 | -130.8 | 381.8 | 358.4 | 23.36 | 16.345 | |
| 3,200.0 | 3,177.3 | 3,181.9 | 3,147.6 | 12.3 | 12.6 | -134.71 | -239.6 | -145.2 | 400.0 | 375.8 | 24.19 | 16.537 | |
| 3,300.0 | 3,276.1 | 3,280.0 | 3,243.8 | 12.7 | 13.0 | -133.75 | -252.0 | -159.7 | 418.4 | 393.3 | 25.02 | 16.720 | |
| 3,400.0 | 3,374.9 | 3,378.1 | 3,340.1 | 13.1 | 13.5 | -132.87 | -264.3 | -174.1 | 436.8 | 411.0 | 25.85 | 16.896 | |
| 3,500.0 | 3,473.7 | 3,476.1 | 3,436.3 | 13.6 | 13.9 | -132.06 | -276.7 | -188.6 | 455.3 | 428.7 | 26.69 | 17.063 | |
| 3,600.0 | 3,572.5 | 3,574.2 | 3,532.5 | 14.0 | 14.4 | -131.31 | -289.0 | -203.0 | 474.0 | 446.4 | 27.52 | 17.222 | |
| 3,700.0 | 3,671.3 | 3,672.3 | 3,628.7 | 14.4 | 14.8 | -130.62 | -301.4 | -217.4 | 492.6 | 464.3 | 28.35 | 17.375 | |
| 3,800.0 | 3,770.1 | 3,770.3 | 3,724.9 | 14.8 | 15.3 | -129.98 | -313.7 | -231.9 | 511.4 | 482.2 | 29.19 | 17.520 | |
| 3,900.0 | 3,868.9 | 3,868.4 | 3,821.1 | 15.3 | 15.8 | -129.39 | -326.0 | -246.3 | 530.2 | 500.2 | 30.02 | 17.659 | |
| 4,000.0 | 3,967.7 | 3,966.5 | 3,917.3 | 15.7 | 16.2 | -128.83 | -338.4 | -260.7 | 549.1 | 518.2 | 30.86 | 17.792 | |
| 4,100.0 | 4,066.5 | 4,064.6 | 4,013.6 | 16.1 | 16.7 | -128.32 | -350.7 | -275.2 | 568.0 | 536.3 | 31.70 | 17.919 | |
| 4,200.0 | 4,165.3 | 4,162.6 | 4,109.8 | 16.5 | 17.1 | -127.83 | -363.1 | -289.6 | 586.9 | 554.4 | 32.53 | 18.041 | |
| 4,300.0 | 4,264.1 | 4,260.7 | 4,206.0 | 17.0 | 17.6 | -127.38 | -375.4 | -304.1 | 605.9 | 572.5 | 33.37 | 18.157 | |
| 4,400.0 | 4,362.9 | 4,358.8 | 4,302.2 | 17.4 | 18.1 | -126.95 | -387.8 | -318.5 | 624.9 | 590.7 | 34.21 | 18.269 | |
| 4,500.0 | 4,461.7 | 4,456.8 | 4,398.4 | 17.8 | 18.5 | -126.55 | -400.1 | -332.9 | 644.0 | 608.9 | 35.05 | 18.375 | |
| 4,600.0 | 4,560.5 | 4,554.9 | 4,494.6 | 18.3 | 19.0 | -126.17 | -412.5 | -347.4 | 663.1 | 627.2 | 35.88 | 18.478 | |
| 4,700.0 | 4,659.4 | 4,653.0 | 4,590.8 | 18.7 | 19.4 | -125.82 | -424.8 | -361.8 | 682.2 | 645.5 | 36.72 | 18.576 | |
| 4,800.0 | 4,758.2 | 4,751.0 | 4,687.1 | 19.1 | 19.9 | -125.48 | -437.2 | -376.2 | 701.3 | 663.7 | 37.56 | 18.671 | |
| 4,900.0 | 4,857.0 | 4,849.1 | 4,783.3 | 19.6 | 20.4 | -125.16 | -449.5 | -390.7 | 720.5 | 682.1 | 38.40 | 18.762 | |
| 5,000.0 | 4,955.8 | 4,947.2 | 4,879.5 | 20.0 | 20.8 | -124.86 | -461.8 | -405.1 | 739.6 | 700.4 | 39.24 | 18.849 | |

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

| | | | |
|---|---|---|---|
| **Company:** | NEW MEXICO | **Local Co-ordinate Reference:** | Well DONNIE BRASCO FED COM 173H |
| **Project:** | (SP) EDDY | **TVD Reference:** | KB @ 3335.0usft |
| **Reference Site:** | DONNIE BRASCO | **MD Reference:** | KB @ 3335.0usft |
| **Site Error:** | 0.0 usft | **North Reference:** | Grid |
| **Reference Well:** | DONNIE BRASCO FED COM 173H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.0 usft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | OWB | **Database:** | Compass_17 |
| **Reference Design:** | PWP0 | **Offset TVD Reference:** | Offset Datum |

**Offset Design:** DONNIE BRASCO - DONNIE BRASCO FED COM 424H - OWB - PWP0

**Offset Site Error:** 0.0 usft

**Survey Program:** 0-MWD

**Rule Assigned:**

**Offset Well Error:** 0.0 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 Centre +N/-S (usft) | Offset Wellbore Centre +E/-W (usft) | Distance Between Centres (usft) | Distance Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5,100.0 | 5,054.6 | 5,045.3 | 4,975.7 | 20.4 | 21.3 | -124.57 | -474.2 | -419.6 | 758.8 | 718.8 | 40.08 | 18.933 | |
| 5,200.0 | 5,153.4 | 5,143.3 | 5,071.9 | 20.8 | 21.8 | -124.30 | -486.5 | -434.0 | 778.0 | 737.1 | 40.92 | 19.014 | |
| 5,300.0 | 5,252.2 | 5,241.4 | 5,168.1 | 21.3 | 22.2 | -124.04 | -498.9 | -448.4 | 797.3 | 755.5 | 41.76 | 19.092 | |
| 5,400.0 | 5,351.0 | 5,339.5 | 5,264.3 | 21.7 | 22.7 | -123.79 | -511.2 | -462.9 | 816.5 | 773.9 | 42.60 | 19.167 | |
| 5,500.0 | 5,449.8 | 5,437.5 | 5,360.5 | 22.1 | 23.1 | -123.55 | -523.6 | -477.3 | 835.8 | 792.3 | 43.44 | 19.239 | |
| 5,600.0 | 5,548.6 | 5,535.6 | 5,456.8 | 22.6 | 23.6 | -123.32 | -535.9 | -491.8 | 855.0 | 810.8 | 44.28 | 19.309 | |
| 5,700.0 | 5,647.4 | 5,633.7 | 5,553.0 | 23.0 | 24.1 | -123.11 | -548.3 | -506.2 | 874.3 | 829.2 | 45.12 | 19.376 | |
| 5,800.0 | 5,746.2 | 5,731.8 | 5,649.2 | 23.4 | 24.5 | -122.90 | -560.6 | -520.6 | 893.6 | 847.7 | 45.96 | 19.441 | |
| 5,900.0 | 5,845.0 | 5,829.8 | 5,745.4 | 23.9 | 25.0 | -122.70 | -573.0 | -535.1 | 912.9 | 866.1 | 46.81 | 19.504 | |
| 6,000.0 | 5,943.8 | 5,927.9 | 5,841.6 | 24.3 | 25.5 | -122.51 | -585.3 | -549.5 | 932.2 | 884.6 | 47.65 | 19.565 | |
| 6,100.0 | 6,042.6 | 6,026.0 | 5,937.8 | 24.7 | 25.9 | -122.33 | -597.6 | -563.9 | 951.6 | 903.1 | 48.49 | 19.624 | |
| 6,200.0 | 6,141.4 | 6,124.0 | 6,034.0 | 25.2 | 26.4 | -122.16 | -610.0 | -578.4 | 970.9 | 921.6 | 49.33 | 19.681 | |
| 6,300.0 | 6,240.3 | 6,222.1 | 6,130.3 | 25.6 | 26.9 | -121.99 | -622.3 | -592.8 | 990.2 | 940.1 | 50.17 | 19.736 | |



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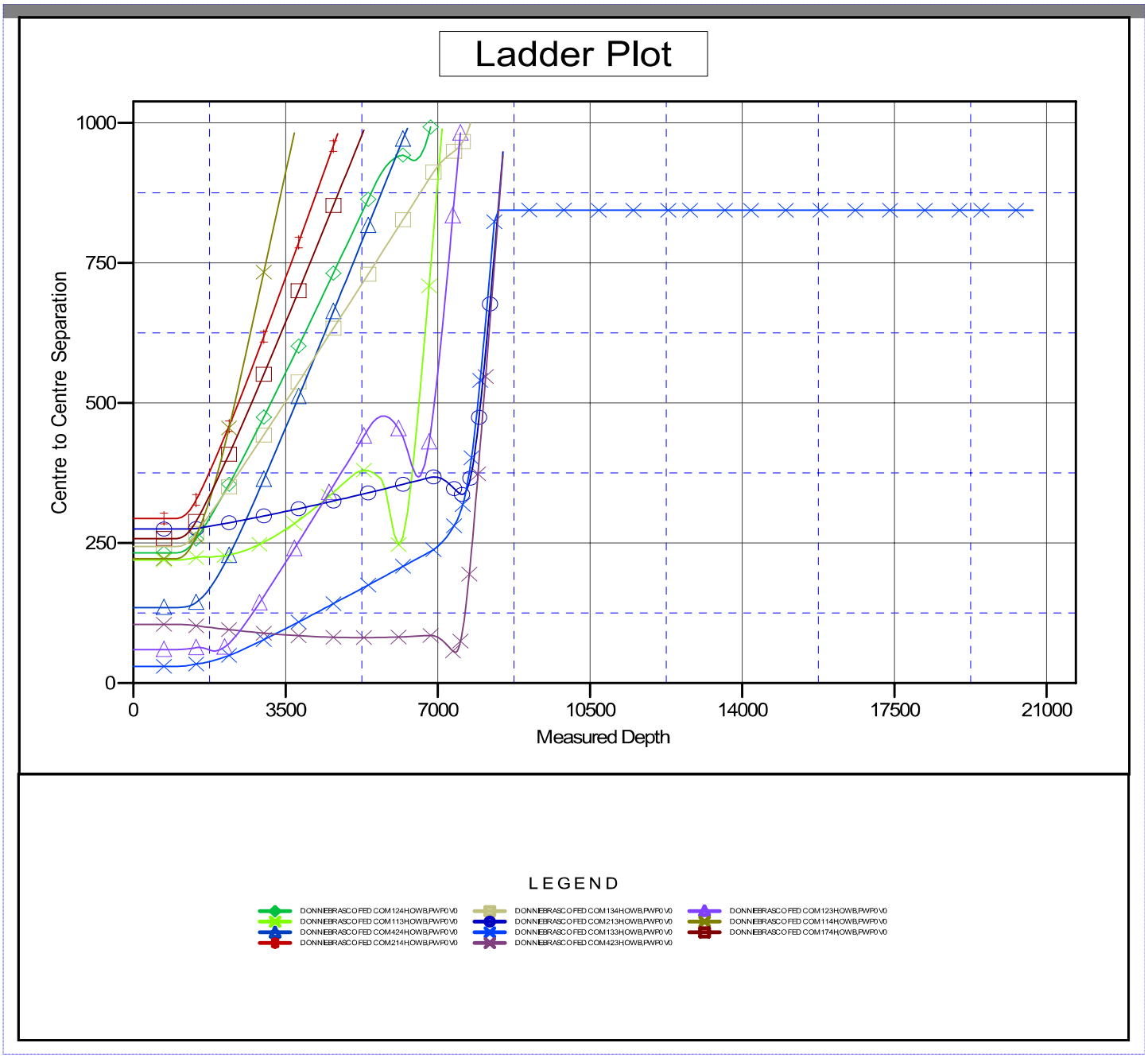
PERMIAN RESOURCES

# Anticollision Report

| | | | |
|---|---|---|---|
| **Company:** | NEW MEXICO | **Local Co-ordinate Reference:** | Well DONNIE BRASCO FED COM 173H |
| **Project:** | (SP) EDDY | **TVD Reference:** | KB @ 3335.0usft |
| **Reference Site:** | DONNIE BRASCO | **MD Reference:** | KB @ 3335.0usft |
| **Site Error:** | 0.0 usft | **North Reference:** | Grid |
| **Reference Well:** | DONNIE BRASCO FED COM 173H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.0 usft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | OWB | **Database:** | Compass_17 |
| **Reference Design:** | PWP0 | **Offset TVD Reference:** | Offset Datum |

Reference Depths are relative to KB @ 3335.0usft
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: DONNIE BRASCO FED COM 173H
Coordinate System is US State Plane 1983, New Mexico Eastern Zone
Grid Convergence at Surface is: 0.03°



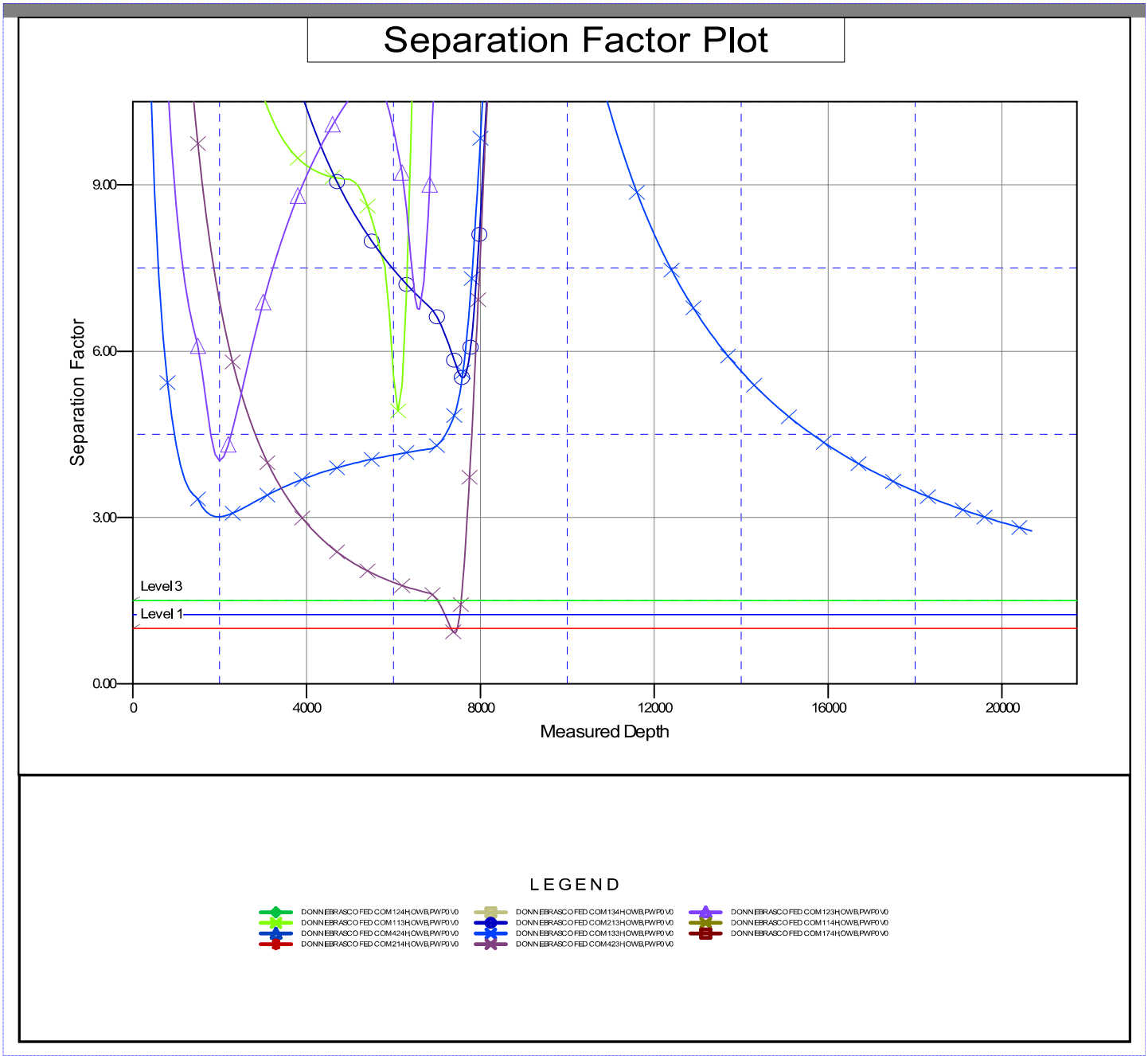
PERMIAN RESOURCES

# Anticollision Report

| | | | |
|---|---|---|---|
| **Company:** | NEW MEXICO | **Local Co-ordinate Reference:** | Well DONNIE BRASCO FED COM 173H |
| **Project:** | (SP) EDDY | **TVD Reference:** | KB @ 3335.0usft |
| **Reference Site:** | DONNIE BRASCO | **MD Reference:** | KB @ 3335.0usft |
| **Site Error:** | 0.0 usft | **North Reference:** | Grid |
| **Reference Well:** | DONNIE BRASCO FED COM 173H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.0 usft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | OWB | **Database:** | Compass_17 |
| **Reference Design:** | PWP0 | **Offset TVD Reference:** | Offset Datum |

Reference Depths are relative to KB @ 3335.0usft
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: DONNIE BRASCO FED COM 173H
Coordinate System is US State Plane 1983, New Mexico Eastern Zone
Grid Convergence at Surface is: 0.03°



State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

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

# NATURAL GAS MANAGEMENT PLAN

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

## Section 1 – Plan Description
**Effective May 25, 2021**

**I. Operator:** Permian Resources Operating, LLC **OGRID:** 372165 **Date:** 08/01/2025

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

If Other, please describe: _____

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

| Well Name | API | ULSTR | Footages | Anticipated Oil BBL/D | Anticipated Gas MCF/D | Anticipated Produced Water BBL/D |
|---|---|---|---|---|---|---|
| Donnie Brasco Fed Com 111H | TBD | I-4-23S-26E | 2370'FSL & 324'FEL | 2000BBL/D | 3500MCF/D | 1750BBL/D |
| Donnie Brasco Fed Com 112H | TBD | I-4-23S-26E | 2356'FSL & 309'FEL | 2000BBL/D | 3500MCF/D | 1750BBL/D |
| Donnie Brasco Fed Com 113H | TBD | L-3-23S-26E | 1342'FSL & 1013'FWL | 2000BBL/D | 3500MCF/D | 1750BBL/D |
| Donnie Brasco Fed Com 114H | TBD | L-3-23S-26E | 1342'FSL & 1043'FWL | 2000BBL/D | 3500MCF/D | 1750BBL/D |
| Donnie Brasco Fed Com 121H | TBD | I-4-23S-26E | 2437'FSL & 400'FEL | 2000BBL/D | 3500MCF/D | 1750BBL/D |
| Donnie Brasco Fed Com 122H | TBD | I-4-23S-26E | 2410'FSL & 369'FEL | 2000BBL/D | 3500MCF/D | 1750BBL/D |
| Donnie Brasco Fed Com 123H | TBD | L-3-23S-26E | 1562'FSL & 1067'FWL | 2000BBL/D | 3500MCF/D | 1750BBL/D |
| Donnie Brasco Fed Com 124H | TBD | L-3-23S-26E | 1342'FSL & 1088'FWL | 2000BBL/D | 3500MCF/D | 1750BBL/D |
| Donnie Brasco Fed Com 131H | TBD | I-4-23S-26E | 2424'FSL & 385'FEL | 2000BBL/D | 3500MCF/D | 1750BBL/D |
| Donnie Brasco Fed Com 132H | TBD | I-4-23S-26E | 2397'FSL & 354'FEL | 2000BBL/D | 3500MCF/D | 1750BBL/D |
| Donnie Brasco Fed Com 133H | TBD | L-3-23S-26E | 1562'FSL & 1037'FWL | 2000BBL/D | 3500MCF/D | 1750BBL/D |
| Donnie Brasco Fed Com 134H | TBD | L-3-23S-26E | 1341'FSL & 1118'FWL | 2000BBL/D | 3500MCF/D | 1750BBL/D |
| Donnie Brasco Fed Com 171H | TBD | I-4-23S-26E | 2307'FSL & 515'FEL | 2000BBL/D | 3500MCF/D | 1750BBL/D |
| Donnie Brasco Fed Com 172H | TBD | I-4-23S-26E | 2280'FSL & 485'FEL | 2000BBL/D | 3500MCF/D | 1750BBL/D |
| Donnie Brasco Fed Com 173H | TBD | L-3-23S-26E | 1562'FSL & 1007'FWL | 2000BBL/D | 3500MCF/D | 1750BBL/D |
| Donnie Brasco Fed Com 174H | TBD | L-3-23S-26E | 1341'FSL & 1148'FWL | 2000BBL/D | 3500MCF/D | 1750BBL/D |
| Donnie Brasco Fed Com 211H | TBD | I-4-23S-26E | 2294'FSL & 500'FEL | 2000BBL/D | 3500MCF/D | 1750BBL/D |
| Donnie Brasco Fed Com 212H | TBD | I-4-23S-26E | 2267'FSL & 470'FEL | 2000BBL/D | 3500MCF/D | 1750BBL/D |
| Donnie Brasco Fed Com 213H | TBD | L-3-23S-26E | 1341'FSL & 1178'FWL | 2000BBL/D | 3500MCF/D | 1750BBL/D |
| Donnie Brasco Fed Com 214H | TBD | L-3-23S-26E | 1340'FSL & 1208'FWL | 2000BBL/D | 3500MCF/D | 1750BBL/D |
| Donnie Brasco Fed Com 421H | TBD | I-4-23S-26E | 2240'FSL & 440'FEL | 2000BBL/D | 3500MCF/D | 1750BBL/D |
| Donnie Brasco Fed Com 422H | TBD | I-4-23S-26E | 2226'FSL & 425'FEL | 2000BBL/D | 3500MCF/D | 1750BBL/D |
| Donnie Brasco Fed Com 423H | TBD | L-3-23S-26E | 1561'FSL & 1112'FWL | 2000BBL/D | 3500MCF/D | 1750BBL/D |
| Donnie Brasco Fed Com 424H | TBD | L-3-23S-26E | 1561'FSL & 1142'FWL | 2000BBL/D | 3500MCF/D | 1750BBL/D |

**IV. Central Delivery Point Name:** Donnie Brasco CTB [See 19.15.27.9(D)(1) NMAC]

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

| Well Name | API | Spud Date | TD Reached Date | Completion Commencement Date | Initial Flow Back Date | First Production Date |
|---|---|---|---|---|---|---|
| Donnie Brasco Fed Com 111H | TBD | TBD | TBD | TBD | TBD | TBD |
| Donnie Brasco Fed Com 112H | TBD | TBD | TBD | TBD | TBD | TBD |
| Donnie Brasco Fed Com 113H | TBD | TBD | TBD | TBD | TBD | TBD |
| Donnie Brasco Fed Com 114H | TBD | TBD | TBD | TBD | TBD | TBD |
| Donnie Brasco Fed Com 121H | TBD | TBD | TBD | TBD | TBD | TBD |
| Donnie Brasco Fed Com 122H | TBD | TBD | TBD | TBD | TBD | TBD |
| Donnie Brasco Fed Com 123H | TBD | TBD | TBD | TBD | TBD | TBD |
| Donnie Brasco Fed Com 124H | TBD | TBD | TBD | TBD | TBD | TBD |
| Donnie Brasco Fed Com 131H | TBD | TBD | TBD | TBD | TBD | TBD |
| Donnie Brasco Fed Com 132H | TBD | TBD | TBD | TBD | TBD | TBD |
| Donnie Brasco Fed Com 133H | TBD | TBD | TBD | TBD | TBD | TBD |
| Donnie Brasco Fed Com 134H | TBD | TBD | TBD | TBD | TBD | TBD |
| Donnie Brasco Fed Com 171H | TBD | TBD | TBD | TBD | TBD | TBD |
| Donnie Brasco Fed Com 172H | TBD | TBD | TBD | TBD | TBD | TBD |
| Donnie Brasco Fed Com 173H | TBD | TBD | TBD | TBD | TBD | TBD |
| Donnie Brasco Fed Com 174H | TBD | TBD | TBD | TBD | TBD | TBD |
| Donnie Brasco Fed Com 211H | TBD | TBD | TBD | TBD | TBD | TBD |
| Donnie Brasco Fed Com 212H | TBD | TBD | TBD | TBD | TBD | TBD |
| Donnie Brasco Fed Com 213H | TBD | TBD | TBD | TBD | TBD | TBD |
| Donnie Brasco Fed Com 214H | TBD | TBD | TBD | TBD | TBD | TBD |
| Donnie Brasco Fed Com 421H | TBD | TBD | TBD | TBD | TBD | TBD |
| Donnie Brasco Fed Com 422H | TBD | TBD | TBD | TBD | TBD | TBD |
| Donnie Brasco Fed Com 423H | TBD | TBD | TBD | TBD | TBD | TBD |
| Donnie Brasco Fed Com 424H | TBD | TBD | TBD | TBD | TBD | TBD |

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

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

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

# Section 2 – Enhanced Plan

**EFFECTIVE APRIL 1, 2022**

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

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

**IX. Anticipated Natural Gas Production:**

| Well | API | Anticipated Average Natural Gas Rate MCF/D | Anticipated Volume of Natural Gas for the First Year MCF |
|---|---|---|---|
| | | | |
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**X. Natural Gas Gathering System (NGGS):**

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

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

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

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

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

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

## Section 3 - Certifications

**Effective May 25, 2021**

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

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

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

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

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

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

## Section 4 - Notices

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

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

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

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

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

| |
|---|
| Signature: Stephanie Rabadue |
| Printed Name: Stephanie Rabadue |
| Title: Regulatory Analyst |
| E-mail Address: stephanie.rabadue@permianres.com |
| Date: 11/19/2025 |
| Phone: 432-695-1115 |

| **OIL CONSERVATION DIVISION**<br>**(Only applicable when submitted as a standalone form)** |
|---|
| Approved By: |
| Title: |
| Approval Date: |
| Conditions of Approval: |

Permian Resources Operating, LLC (372165)

**Natural Gas Management Plan Descriptions**

**VI. Separation Equipment:**

Permian utilizes a production forecast from our Reservoir Engineering team to appropriately size each permanent, 3-phase separator and heater treater utilized for production operations. Our goal is to maintain 5 minutes of retention time in the test vessel and 20 minutes in the heater treater at peak production rates. The gas produced is routed from the separator to the gas sales line.

**VII. Operational Practices:**

*Drilling*

During Permian's drilling operations it is uncommon for venting or flaring to occur. If flaring is needed due to safety concerns, gas will be routed to a flare and volumes will be estimated.

*Flowback*

During completion/recompletion flowback operations, after separation flowback begins and as soon as it is technically feasible, Permian routes gas though a permanent separator and the controlled facility where the gas is either sold or flared through a high-pressure flare if needed.

*Production*

Per 19.15.27.8.D, Permian's facilities are designed to minimize waste. Our produced gas will only be vented or flared in an emergency or malfunction situation, except as allowed for normal operations noted in 19.15.27.8.D(2) & (4). All gas that is flared is metered. All gas that may be vented will be estimated.

*Performance Standards*

Permian utilizes a production forecast from our Reservoir Engineering team to appropriately size each permanent, 3-phase separator and heater treater utilized for production operations.

All of Permian's permanent storage tanks associated with production operations which are routed to a flare or control device are equipped with an automatic gauging system.

All of Permian's flare stacks, both currently installed and for future installation, are:

1) Appropriately sized and designed to ensure proper combustion efficiency.
2) Equipped with an automatic ignitor or continuous pilot.
3) Anchored and located at least 100 feet from the well and storage tanks.

Permian's field operations and HSE teams have implemented an AVO inspection schedule that adheres to the requirements of 19.15.27.8.E(5).

All of our operations and facilities are designed to minimize waste. We routinely employ the following methods and practices:

- Closed-loop systems
- Enclosed and properly sized tanks

- Vapor recovery units to maximize recovery of low-pressure gas streams and potential unauthorized emissions
- Low-emitting or electric engines whenever practical
- Combustors and flare stacks in the event of a malfunction or emergency
- Routine facility inspections to identify leaking components, functioning control devices, such as flares and combustors, and repair / replacement of malfunctioning components where applicable

*Measurement or estimation*

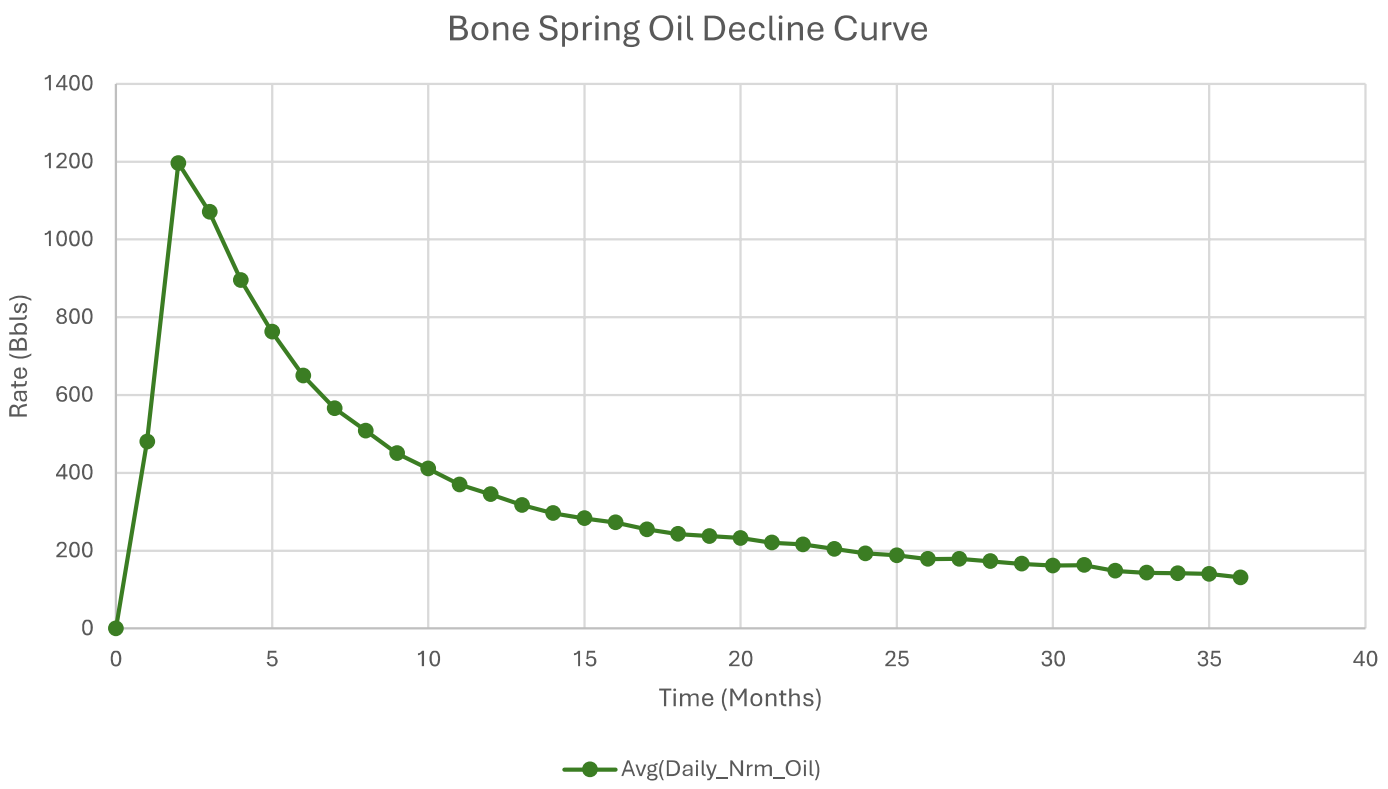
Permian measures or estimates the volumes of natural gas vented, flared and/or beneficially used for all of our drilling, completing and producing wells. We utilize accepted industry standards and methodology which can be independently verified. Annual GOR testing is completed on our wells and will be submitted as required by the OCD. None of our equipment is designed to allow diversion around metering elements except during inspection, maintenance and repair operations.

**VIII. Best Management Practices:**

Permian utilizes the following BMPs to minimize venting during active and planned maintenance activities:

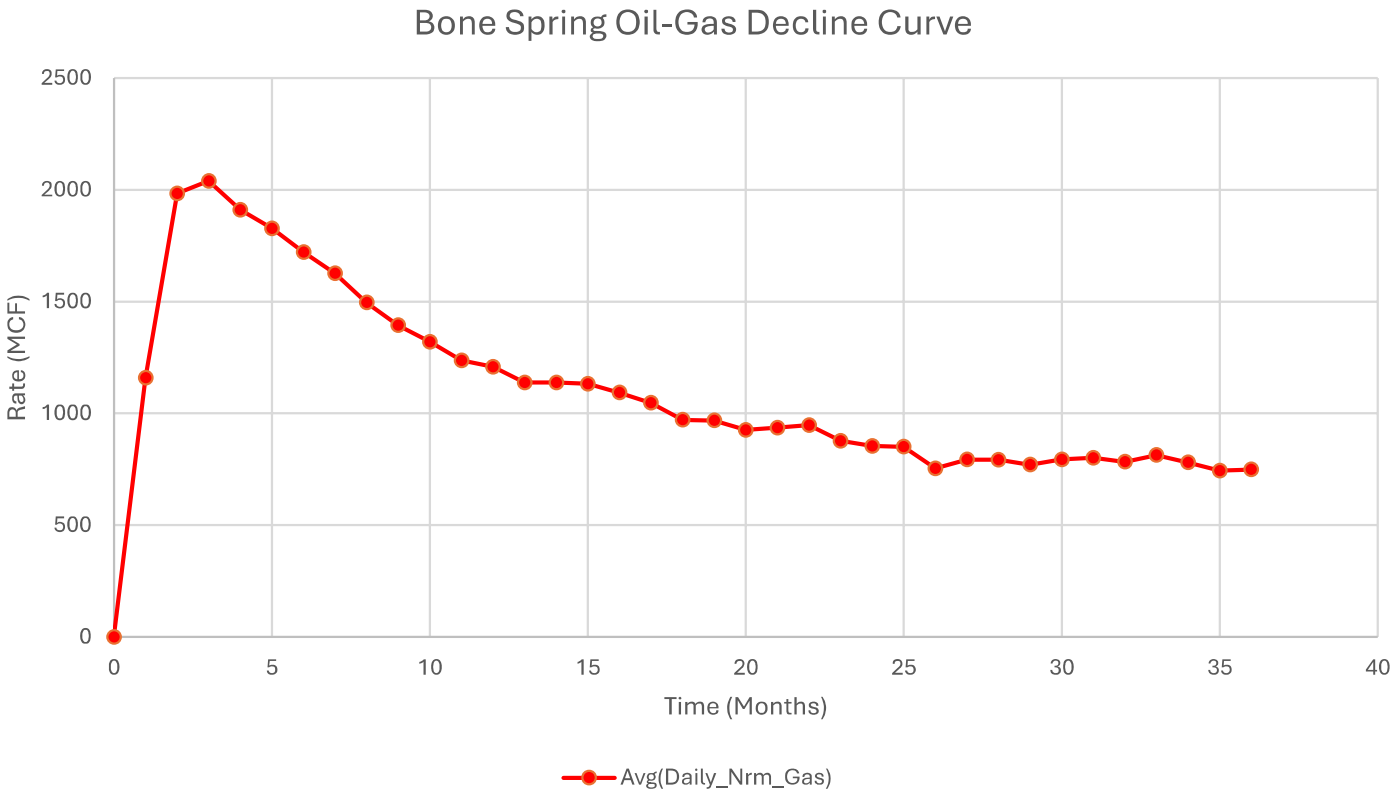
- Use a closed-loop process wherever possible during planned maintenance activities, such as blowdowns, liquid removal, and work over operations.
- Employ low-emitting or electric engines for equipment, such as compressors
- Adhere to a strict preventative maintenance program which includes routine facility inspections, identification of component malfunctions, and repairing or replacing components such as hatches, seals, valves, etc. where applicable
- Utilize vapor recovery units (VRU's) to maximize recovery of volumes of low-pressure gas streams and potential unauthorized emissions
- Route low pressure gas and emissions streams to a combustion device to prevent venting where necessary

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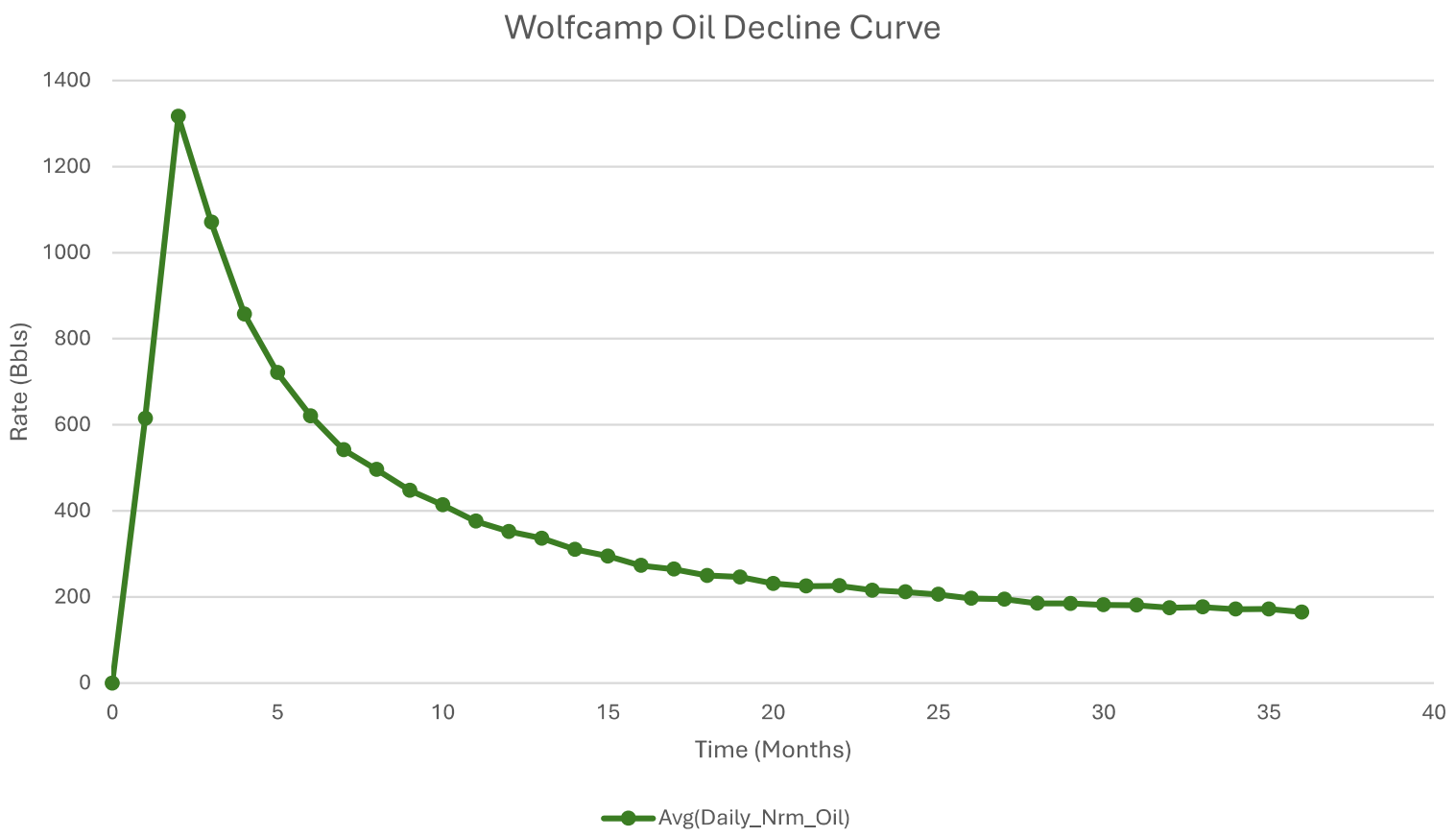

1. Represented curve is generic based on 3-Years available information for the Bone Spring formation and may not be representative of forecasted production or actual volumes.
2. Decline curves are based on an average 10,000ft lateral length. Multiple factors may influence production and decline curves, including but not limited to: lateral length and completion type.

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Received by OCD: 2/18/2026 11:56:16 AM



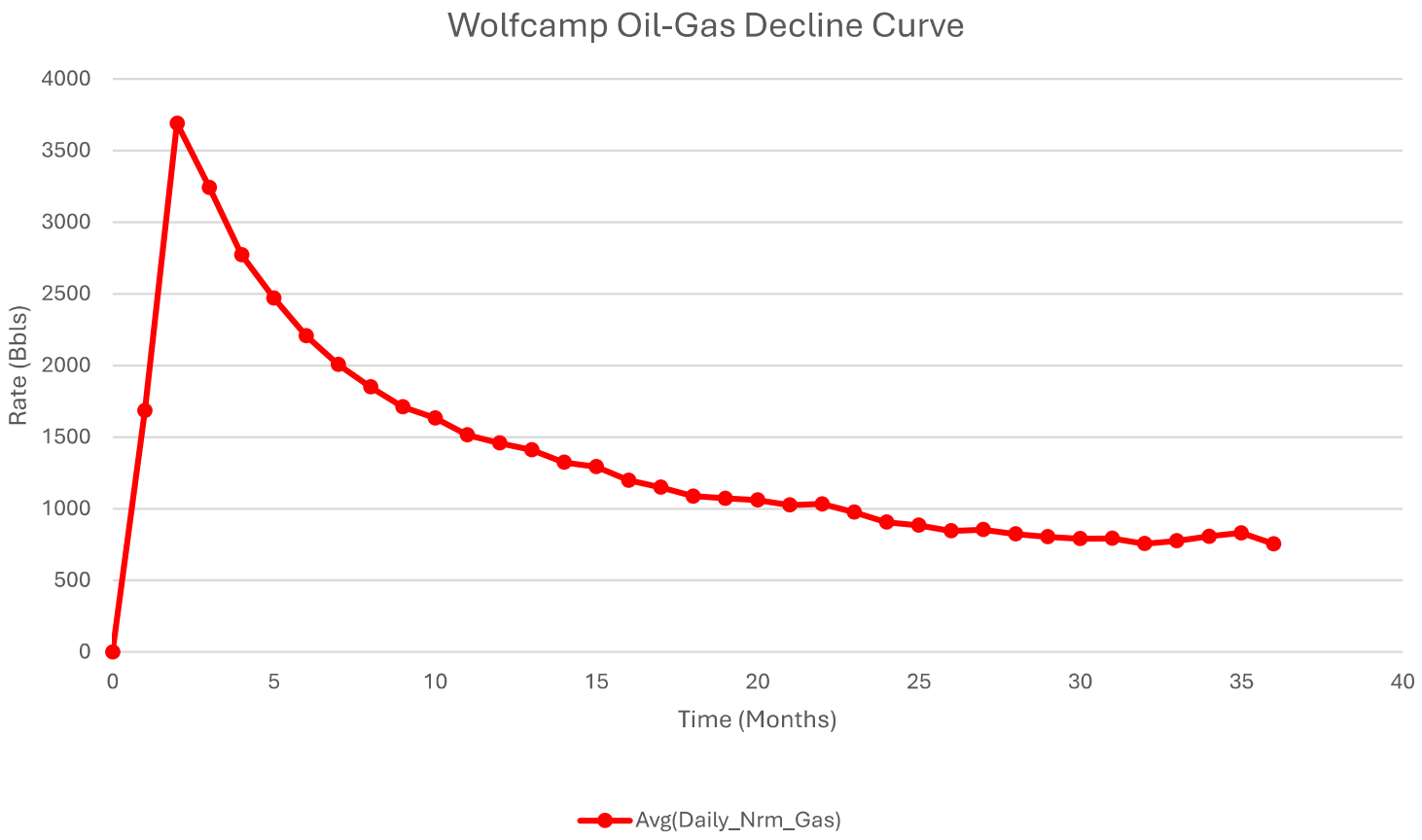

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2. Decline curves are based on an average 10,000ft lateral length. Multiple factors may influence production and decline curves, including but not limited to: lateral length and completion type.

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2. Decline curves are based on an average 10,000ft lateral length. Multiple factors may influence production and decline curves, including but not limited to: lateral length and completion type.

# Permian Resources
# Multi-Well Pad Batch Drilling Procedure

Surface Casing - PR intends to Batch set all surface casing to a depth approved in the APD. 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 Surface hole to Approved Depth with Rig and perform wellbore cleanup cycles. Trip out and rack back drilling BHA.
2. Run and land planned surface 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 greater - not to exceed 70% casing burst.

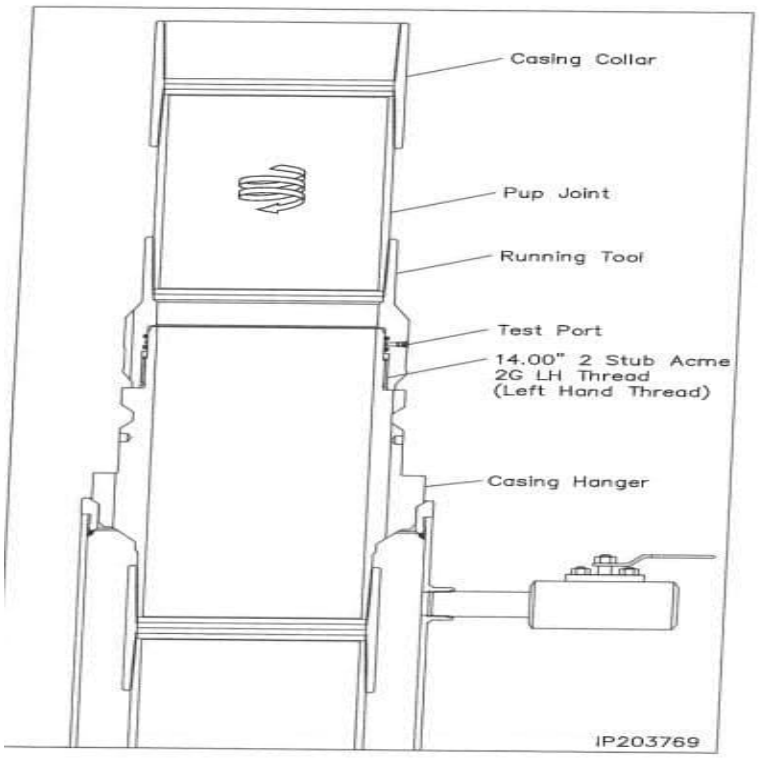



Illustration 1-1

Intermediate Casing – PR intends to Batch set all intermediate casing strings to a depth approved in the APD. Intermediate Holes will be batch drilled by the rig. Appropriate notifications will be made prior to 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 surface casing 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.

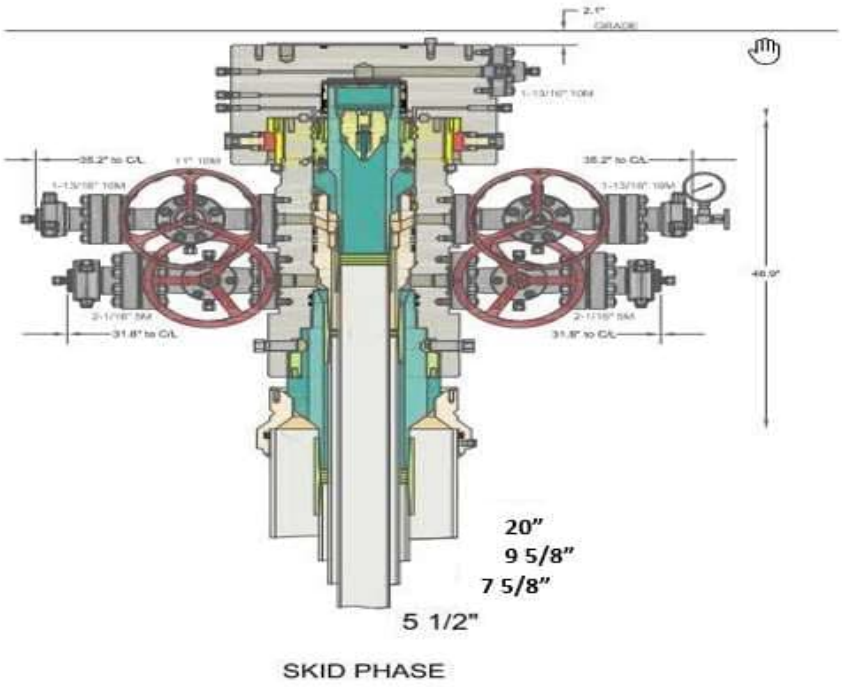



Illustration 2-2

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. Drilling 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 Production Casing.
6. Remove wear bushing then run Production casing to TD landing casing mandrel in wellhead.
7. Cement 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 Production mandrel hanger – Nipple down BOPE and install nightcap.
10. Test nightcap void to 5,000 psi for 30 minutes per illustration 2-2
11. Skid rig to adjacent well on pad to drill production hole.

# Permian Resources
# BOP Break Testing Variance Procedure

**Subject:** Request for a Variance Allowing break Testing of the Blowout Preventer Equipment (BOPE). Permian Resources requests a variance to ONLY test broken pressure seals on the BOPE and function test BOP when skidding a drilling rig between multiple wells on a pad.

**Background**

Title 43 CFR 3172, Drilling Operations, Sections 6.b.9.iv states that the BOP test must be performed whenever any seal subject to test pressure is broken. The current interpretation of the Bureau of Land Management (BLM) requires a complete BOP test and not just a test of the affected component. 43 CFR 3172.13, Variances from minimum standards states, "An operator may request the authorized officer to approve a variance from any of the minimum standards prescribed in §§ 3172.6 through 3172.12. All such requests shall be submitted in writing to the appropriate authorized officer and provide information as to the circumstances which warrant approval of the variance(s) requested and the proposed alternative methods by which the related minimum standard(s) are to be satisfied. The authorized officer, after considering all relevant factors, if appropriate, may approve the requested variance(s) if it is determined that the proposed alternative(s) meet or exceed the objectives of the applicable minimum standard(s).". Permian Resources feels the break testing the BOPE is such a situation. Therefore, as per 43 CFR 3172.13, Permian Resources submits this request for the variance.

**Supporting Documentation**

The language used in 43 CFR 3172 became effective on December 19, 1988 and has remained the standard for regulating BLM onshore drilling operations for over 30 years. During this time, there have been significant changes in drilling technology. The BLM continues to use the variance request process to allow for the use of modern technology and acceptable engineering practices that have arisen since 43 CFR 3172 was originally released. The Permian Resources drilling rig fleet has many modern upgrades that allow the intact BOP stack to be moved between well slots on a multi-well pad, as well as, wellhead designs that incorporate quick connects facilitating release of the BOP from the wellhead without breaking any BOP stack components apart. These technologies have been used extensively offshore, and other regulators, API, and many operators around the world have endorsed break testing as safe and reliable.

Figure 1: Winch System attached to BOP Stack

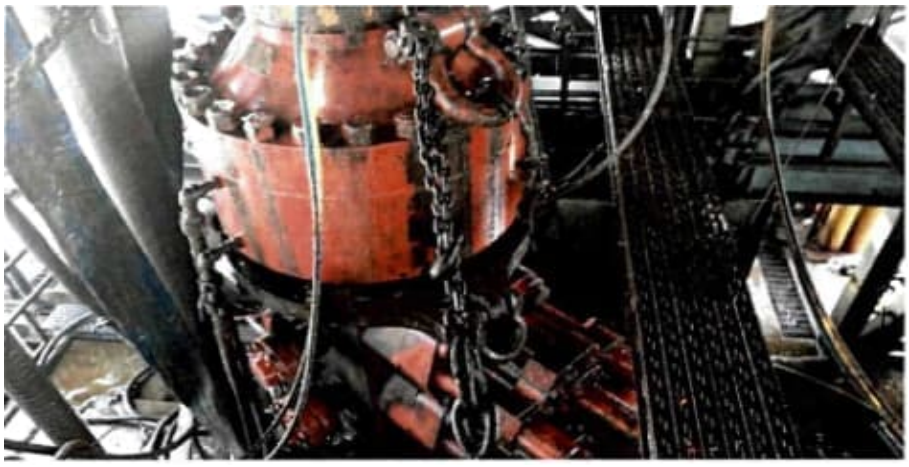


Figure 2: BOP Winch System



American Petroleum Institute (API) standards, specification and recommended practices are considered the industry standard and are consistently utilized and referenced by the industry. 43 CFR 3172 recognizes API recommended Practices (RP) 53 in its original development. API Standard 53, Well Control Equipment Systems for Drilling Wells (Fifth Edition, December 2018, Annex C, Table C.4) recognizes break testing as an acceptable practice. Specifically, API Standard 53, Section 5.3.7.1 states "A pressure test of the pressure containing component shall be performed following the disconnection or repair, limited to the affected component." See Table C.4 below for reference.

62 API STANDARD 53

**Table C.4—Initial Pressure Testing, Surface BOP Stacks**

| Component to be Pressure Tested | Pressure Test—Low Pressure[a,c] psig (MPa) | Pressure Test—High Pressure[a,c] | |
|---|---|---|---|
| | | Change Out of Component, Elastomer, or Ring Gasket | No Change Out of Component, Elastomer, or Ring Gasket |
| Annular preventer[b] | 250 to 350 (1.72 to 2.41) | RWP of annular preventer | MASP or 70% annular RWP, whichever is lower. |
| Fixed pipe, variable bore, blind, and BSR preventers[b,c] | 250 to 350 (1.72 to 2.41) | RWP of ram preventer or wellhead system, whichever is lower | ITP |
| Choke and kill line and BOP side outlet valves below ram preventers (both sides) | 250 to 350 (1.72 to 2.41) | RWP of side outlet valve or wellhead system, whichever is lower | ITP |
| Choke manifold—upstream of chokes[e] | 250 to 350 (1.72 to 2.41) | RWP of ram preventers or wellhead system, whichever is lower | ITP |
| Choke manifold—downstream of chokes[e] | 250 to 350 (1.72 to 2.41) | RWP of valve(s), line(s), or MASP for the well program, whichever is lower | |
| Kelly, kelly valves, drill pipe safety valves, IBOPs | 250 to 350 (1.72 to 2.41) | MASP for the well program | |

[a] Pressure test evaluation periods shall be a minimum of five minutes.
No visible leaks.
The pressure shall remain stable during the evaluation period. The pressure shall not decrease below the intended test pressure.

[b] Annular(s) and VBR(s) shall be pressure tested on the largest and smallest OD drill pipe to be used in well program.

[c] For pad drilling operations, moving from one wellhead to another within the 21 days, pressure testing is required for pressure-containing and pressure-controlling connections when the integrity of a pressure seal is broken.

[d] For surface offshore operations, the ram BOPs shall be pressure tested with the ram locks engaged and the closing and locking pressure vented during the initial test. For land operations, the ram BOPs shall be pressure tested with the ram locks engaged and the closing and locking pressure vented at commissioning and annually.

[e] Adjustable chokes are not required to be full sealing devices. Pressure testing against a closed choke is not required.

The Bureau of Safety and Environmental Enforcement (BSEE), Department of Interior, has also utilized the API standards, specification and best practices in the development of its offshore oil and gas regulations and incorporates them by reference within its regulations.

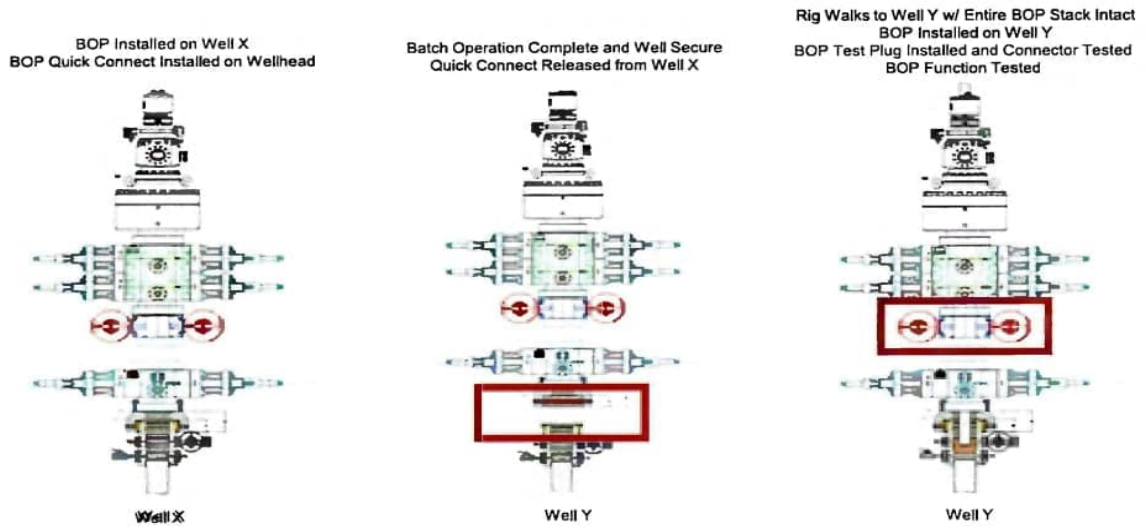
Break testing has been approved by the BLM in the past with other operators based on the detailed information provided in this document.

Permian Resources feels break testing and our current procedures meet the intent of 43 CFR 3172 and often exceed it. There has been no evidence that break testing results in more components failing than seen on full BOP tests. Permian Resources internal standards require complete BOPE tests more often than that of 43 CFR 3172 (every 21 days). In addition to function testing the annular, pipe rams and blind rams after each BOP nipple up, Permian Resources performs a choke drill with the rig crew prior to drilling out every casing shoe. This is additional training for the rig crew that exceeds the requirements of 43 CFR 3172.

**Procedures**

1) Permian Resources will use this document for our break testing plan for New Mexico Delaware Basin. The summary below will be referenced in the APD or Sundry Notice and receive approval prior to implementing this variance.
2) Permian Resources will perform BOP break testing on multi-wells pads where multiple intermediate sections can be drilled and cased within the 21-day BOP test window.
    a)A full BOP test will be conducted on the first well on the pad.
    b)The first intermediate hole section drilled on the pad will be the deepest. All the remaining hole sections will be the same formation depth or shallower.
    c) A full BOP test will be required if the intermediate hole section being drilled has a MASP over 5M.
    d) A full BOP test will be required prior to drilling any production hole.
3) After performing a complete BOP test on the first well, the intermediate hole section will be drilled and cased, two breaks would be made on the BOP equipment.
    a) Between the HCV valve and choke line connection
    b)Between the BOP quick connect and the wellhead
4) The BOP is then lifted and removed from the wellhead by a hydraulic system.
5) After skidding to the next well, the BOP is moved to the wellhead by the same hydraulic system and installed.
6) The connections mentioned in 3a and 3b will then be reconnected.
7) Install test plug into the wellhead using test joint or drill pipe.
8) A shell test is performed against the upper pipe rams testing the two breaks.
9) The shell test will consist of a 250 psi low test and a high test to the value submitted in the APD or Sundry (e.g. 5,000 psi or 10,000psi).
10) Function tests will be performed on the following components: lower pipe rams, blind rams, and annular.
11) For a multi-well pad the same two breaks on the BOP would be made and on the next wells and steps 4 through 10 would be repeated.
12) A second break test would only be done if the intermediate hole section being drilled could not be completed within the 21 day BOP test window.

***Note: Picture below highlights BOP components that will be tested during batch operations***




**Summary**

A variance is requested to ONLY test broken pressure seals on the BOP equipment when moving from wellhead to wellhead which is in compliance with API Standard 53. API Standard 53 states, that for pad drilling operations, moving from one wellhead to another within 21 days, pressure testing is required for pressure-containing and pressure-controlling connections when the integrity of a pressure seal is broken.

The BOP will be secured by a hydraulic carrier or cradle. The BLM will be contacted if a Well Control
event occurs prior to the commencement of a BOPE Break Testing operation.

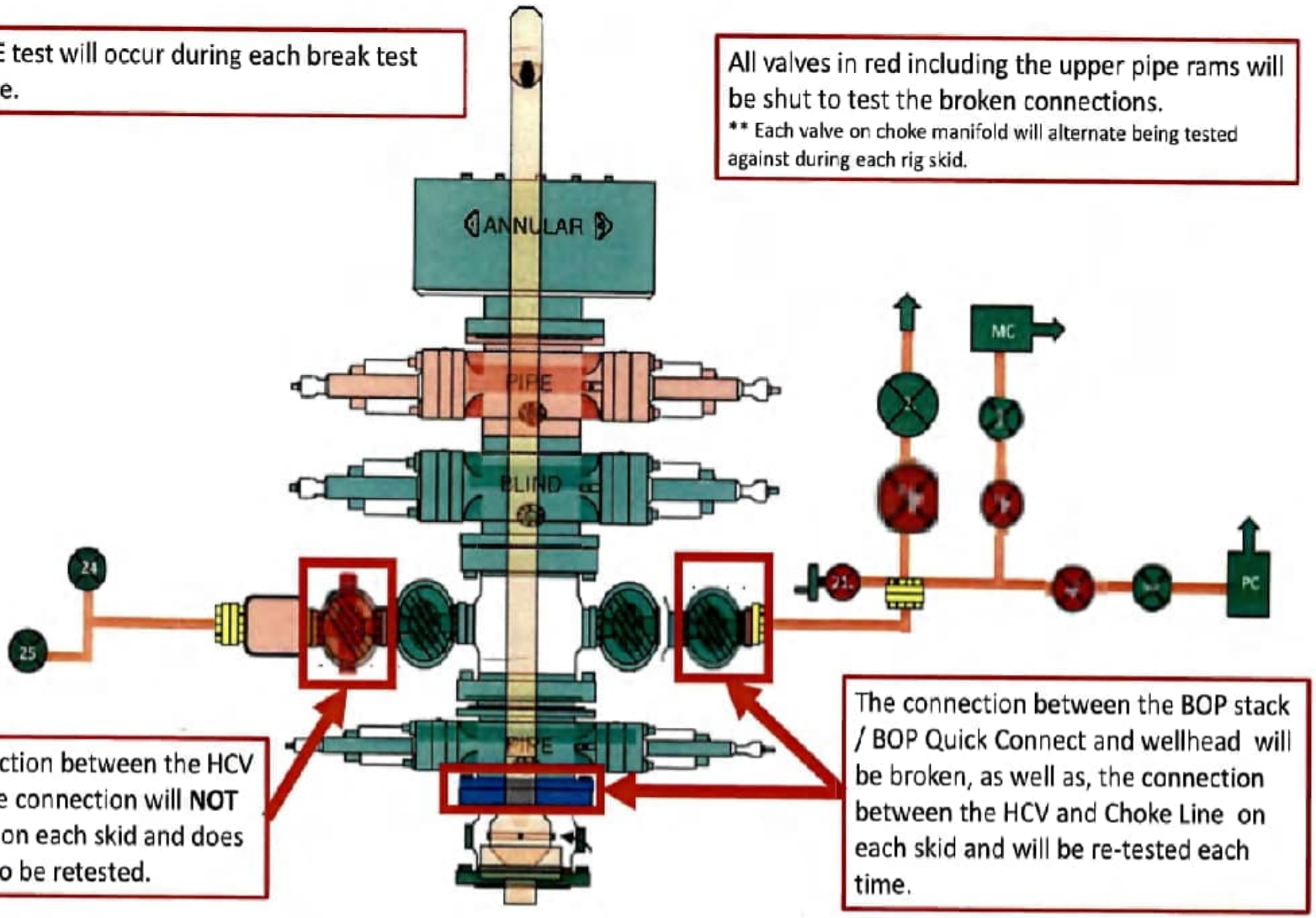
Based on public data and the supporting documentation submitted herein to the BLM, we will request permission to ONLY retest broken pressure seals if the following conditions are met:

1) After a full BOP test is conducted on the first well on the pad.
2) The first intermediate hole section drilled on the pad will be the deepest. All the remaining hole sections will be the same depth or shallower.
3) A full BOP test will be required if the intermediate hole section being drilled has a MASP over 5M.
4) A full BOP test will be required prior to drilling the production hole.

Only **ONE** test will occur during each break test procedure.

All valves in red including the upper pipe rams will be shut to test the broken connections.

** Each valve on choke manifold will alternate being tested against during each rig skid.




The connection between the HCV and kill line connection will **NOT** be broken on each skid and does not need to be retested.

The connection between the BOP stack / BOP Quick Connect and wellhead will be broken, as well as, the connection between the HCV and Choke Line on each skid and will be re-tested each time.

Continental

ContiTech Fluid Technology

ContiTech Oil & Marine Corp. # 11535 Brittmoore Park Dr., Houston, TX 77041-6916 USA

CONSIGNEE / Ship-to address:

HELMERICH & PAYNE INT'L DRILLING CO
ATTN: FLEX RIG WHSE - B-BAY
210 MAGNOLIA DRIVE
GALENA PARK TX 77547

Buyer:

HELMERICH & PAYNE INT'L DRILLING CO
1437 SOUTH BOULDER
74119 TULSA

Conditions

Incoterms EXW Houston
Ex Works

**Packing list / Delivery note**

| | |
|---|---|
| Document No. | **71461553** |
| Document Date | 28.01.2022 |
| Customer Number | 11697 |
| Customer VAT No. | |
| Supplier Number | |
| Purchase Order No. | 740362040 |
| Purchase Order Date | 18.01.2022 |
| Sales Order Number | 1388153 |
| Sales Order Date | 18.01.2022 |
| Unloading Point | |
| RAN-No. | |

**Page 1 of 2**

Weights (Gross / Net)

| | |
|---|---|
| Total Gross Weight | 2,507.000 LB |
| Total Net Weight | 2,507.000 LB |

| Item | Material/Description | Quantity | Net Weight | Gross Weight |
|---|---|---|---|---|
| | *Buyer: Jack Peebles*<br>*E-mail: Jackie.Peebles@hpinc.com*<br>*Tel: 832-782-6000*<br><br>*Rig/Whse: HOW* | | | |
| 20 | 00RECERTIFY<br>Recert of HP Hoses Serial# 67094<br>Commodity Code:<br>3" X 35 FT 10K Choke & Kill Hoses API 16C<br><br>End 1: 4 - 1/16" 10Kpsi API Spec 6A Type 6BX Flange<br>End 2: 4 - 1/16" 10Kpsi API Spec 6A Type 6BX Flange c/w BX155 ring groove each end<br>Standard: API Spec 16C - Monogrammed<br><br>Working Pressure: 10,000psi<br>Test Pressure: 15,000psi<br><br>Inspection & Certification includes:<br>External inspection of the hose & couplings<br>Internal boroscopic inspection of hose liner<br>Hydrostatic pressure test of hose assembly<br>Repair of any external damage to hose body and end connections (limited to minor repairs).<br>Clean & protect end connections Inspection Report<br>Disposal of hose assembly if hose fails inspection and recertification process.<br>Please Flush Hoses before sending them to our Facility. | 1 PC | 2,507.000 LB | 2,507.000 LB |

880002 40
Y106-01-0101
2.9.22



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**Record Rotary Hose sleeve number on the CBC Made Hose List ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! !**

# Hydrostatic Test Certificate

ContiTech

| Certificate Number | COM Order Reference | Customer Name & Address |
|---|---|---|
| H100122 | 1388153 | HELMERICH & PAYNE DRILLING CO<br>1434 SOUTH BOULDER AVE<br>TULSA, OK 74119<br>USA |
| **Customer Purchase Order No:** | 740362040 | |
| **Project:** | | |

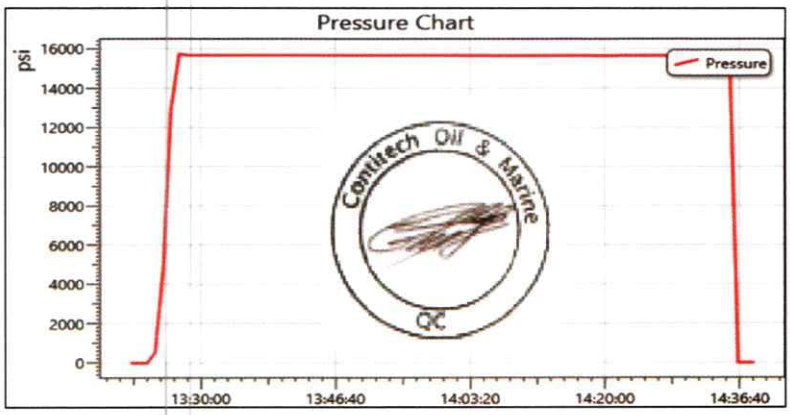
| Test Center Address | Accepted by COM Inspection | | Accepted by Client Inspection |
|---|---|---|---|
| ContiTech Oil & Marine Corp.<br>11535 Brittmoore Park Drive<br>Houston, TX 77041<br>USA | Signed:<br><br>Date: | Gerson Mejia-Lazo<br><br>02/09/22 | |

We certify that the goods detailed hereon have been inspected as described below by our Quality Management System, and to the best of our knowledge are found to conform the requirements of the above referenced purchase order as issued to ContiTech Oil & Marine Corporation.

| Item | Part No. | Description | Qnty | Serial Number | Work. Press. (psi) | Test Press. (psi) | Test Time (minutes) |
|---|---|---|---|---|---|---|---|
| 20 | RECERTIFICATION | 3" ID 10K Choke and Kill Hose x 35ft OAL | 1 | 67094 | 10,000 | 15,000 | 60 |

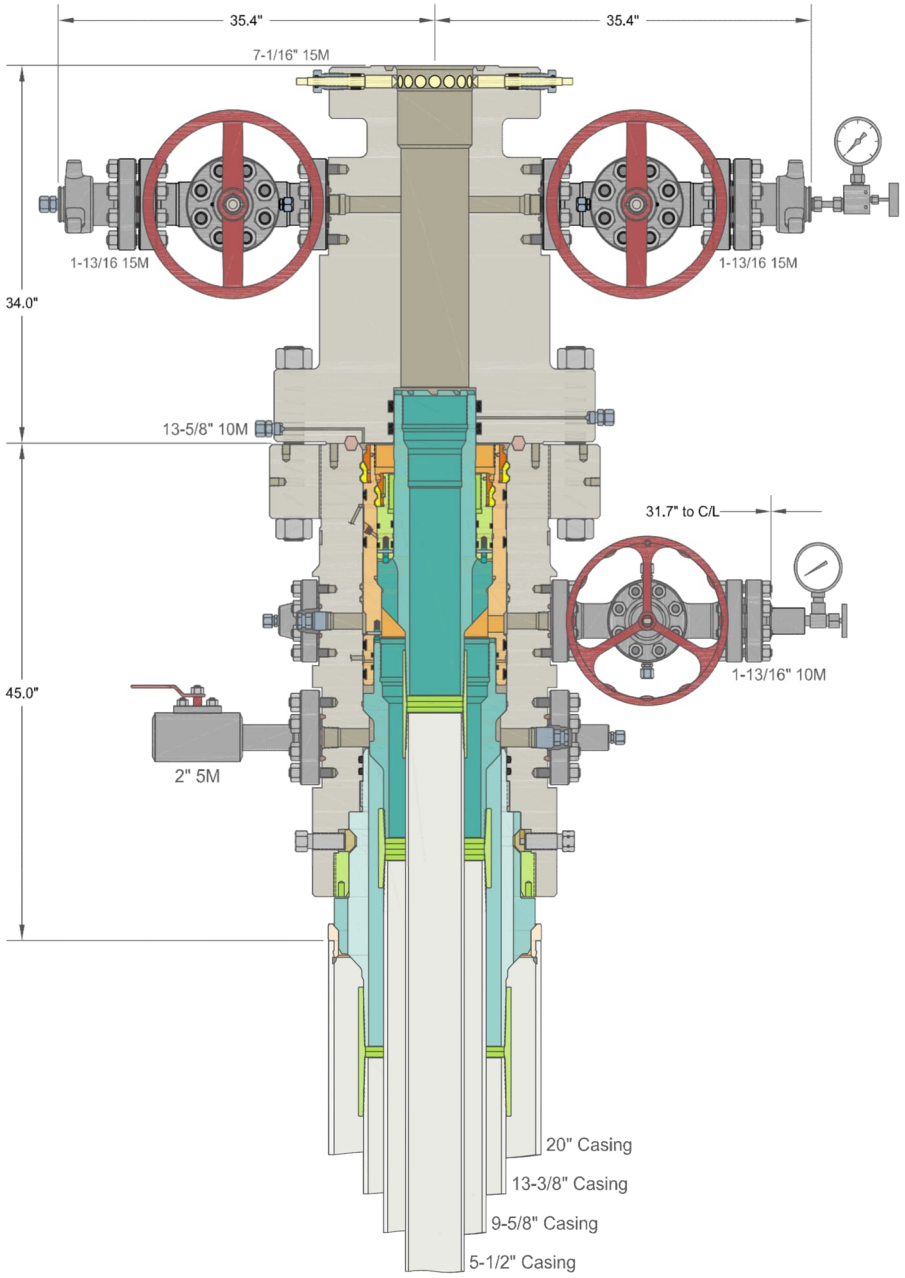
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|---|---|
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| End Time | 1/27/2022 14:38:28 |
| Interval | 00:01:00 |
| Number | 78 |
| MaxValue | 15849 |
| MinValue | -3 |
| AvgValue | 14240 |
| RecordName | 67094-sh |
| RecordNumber | 199 |

| Gauge Information | |
|---|---|
| Model | ADT680 |
| SN | 21817380014 |
| Range | (0-40000)psi |
| Unit | psi |






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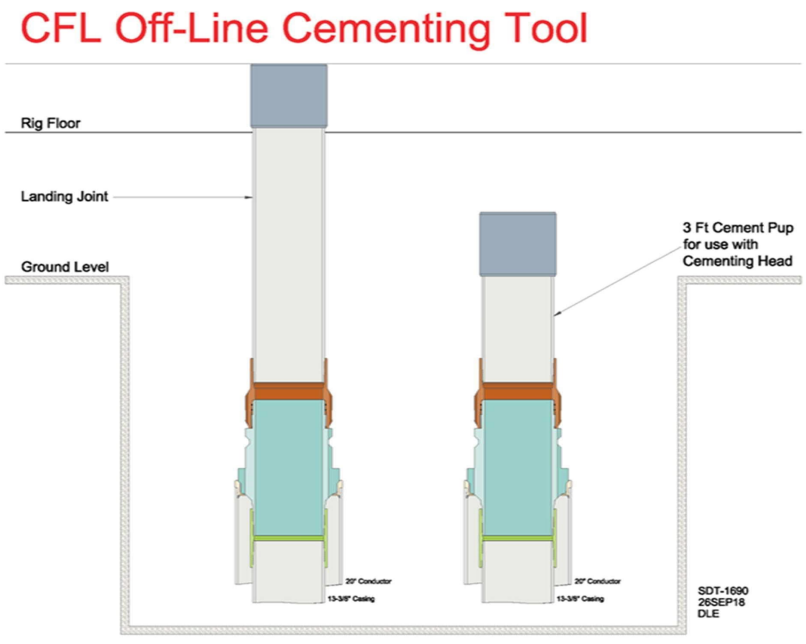
ALL DIMENSIONS APPROXIMATE

| | | | |
|---|---|---|---|
| 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 | |

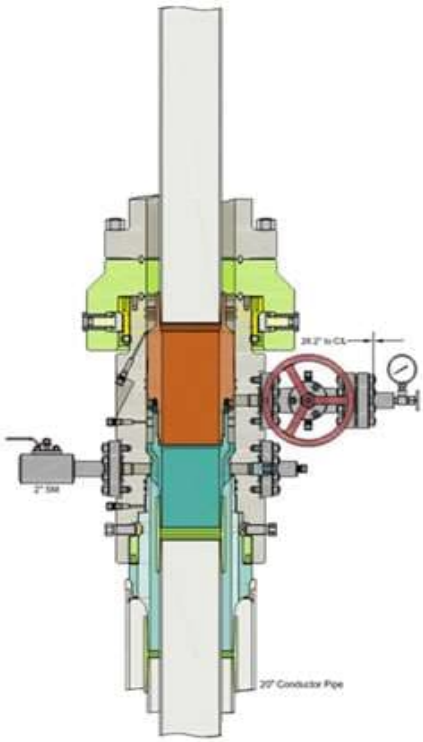
**Permian Resources Offline Cementing Procedure**
**Surface & Intermediate Casing**

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.

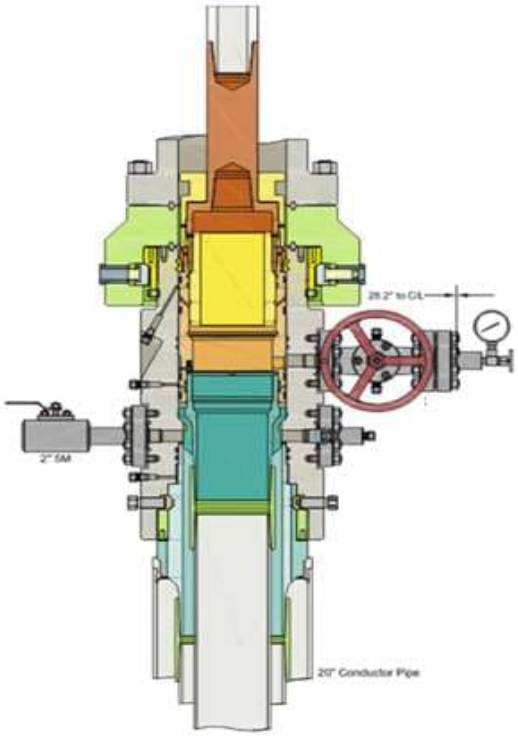
13 3/8" Surface



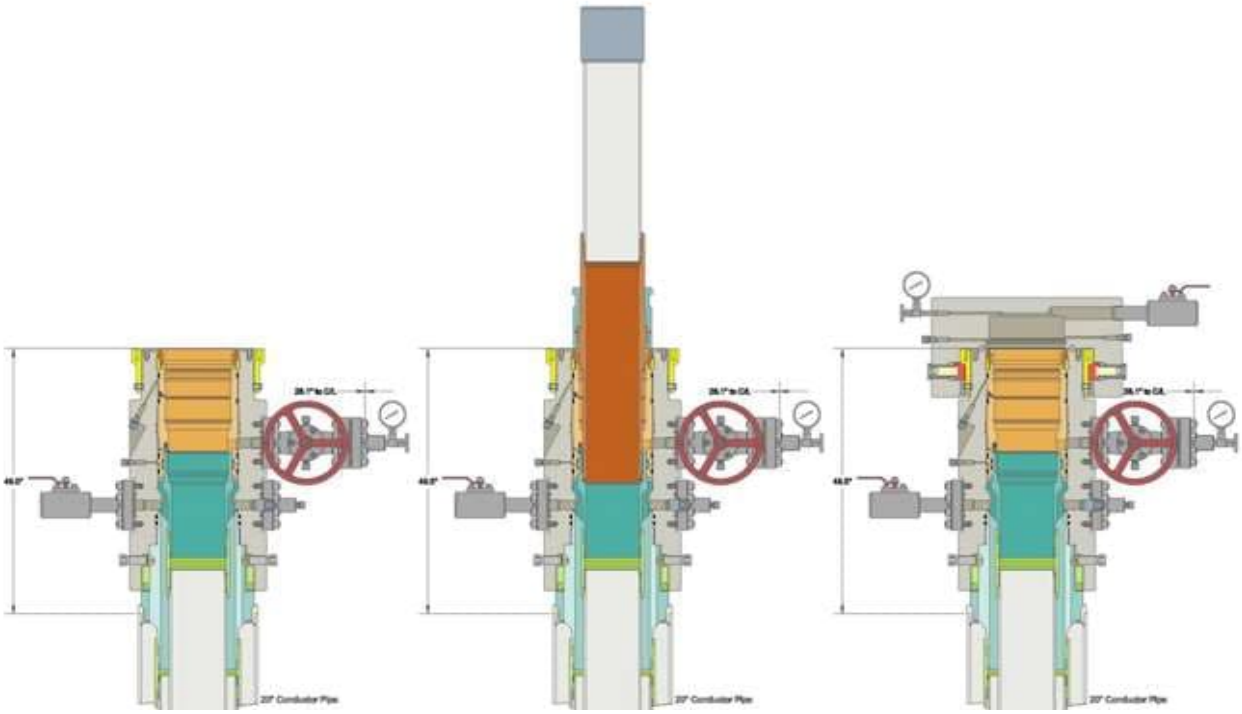
Intermediate



Run 7 5/8" Casing
Land Casing on 7 5/8" Mandrel Hanger
Cement 7 5/8" Casing
Retrieve Running Tool



Run 9 5/8" Packoff
Test Upper and Lower Seals
Engage Lockring
Retrieve Running Tool





**APD ID:** 10400109079 **Submission Date:** 12/05/2025

**Operator Name:** PERMIAN RESOURCES OPERATING LLC

**Well Name:** DONNIE BRASCO FED COM **Well Number:** 173H

**Well Type:** CONVENTIONAL GAS WELL **Well Work Type:** Drill

Highlighted data reflects the most recent changes

Show Final Text

## Section 1 - Existing Roads

**Will existing roads be used?** YES

**Existing Road Map:**

Donnie_B_Fed_Com_Existing_Road_20250826155954.pdf

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**Existing Road Purpose:** ACCESS,FLUID TRANSPORT **Row(s) Exist?** NO

### ROW ID(s)

**ID:**

**Do the existing roads need to be improved?** YES

**Existing Road Improvement Description:** The access road will be constructed and maintained as necessary to prevent soil erosion and accommodate all-weather traffic. The road will be crowned and ditched with water turnouts installed as necessary to provide for proper drainage along with access road route.

**Existing Road Improvement Attachment:**

## Section 2 - New or Reconstructed Access Roads

**Will new roads be needed?** YES

**New Road Map:**

Donnie_B_Fed_Com_New_Road_20251205060645.pdf

**New road type:** RESOURCE

**Length:** 789.23 Feet **Width (ft.):** 30

**Max slope (%):** 2 **Max grade (%):** 3

**Army Corp of Engineers (ACOE) permit required?** N

**ACOE Permit Number(s):**

**New road travel width:** 24

**New road access erosion control:** The access road will be constructed and maintained as necessary to prevent soil erosion and accommodate all-weather traffic. The road will be crowned and ditched with water turnouts installed as necessary to provide for proper drainage along with access road route.

**New road access plan or profile prepared?** N

**New road access plan**

**Operator Name:** PERMIAN RESOURCES OPERATING LLC

**Well Name:** DONNIE BRASCO FED COM **Well Number:** 173H

**Access road engineering design?** N

**Access road engineering design**

**Turnout?** N

**Access surfacing type:** OTHER

**Access topsoil source:** ONSITE

**Access surfacing type description:** 6" Rolled & Compacted Caliche

**Access onsite topsoil source depth:** 6

**Offsite topsoil source description:**

**Onsite topsoil removal process:** Approximately 6 inches of topsoil (root zone) will be stripped from the proposed access road prior to any further construction activity. The topsoil that was stripped will be spread along the edge of the road and within the ditch. The topsoil will be seeded with the proper seed mix designated by the BLM.

**Access other construction information:**

**Access miscellaneous information:** From the intersection of US-180 and CR-707 in Carlsbad, New Mexico; move Southwest on US-180 approximately 1.5 miles. Turn right onto CR-765 and move West approximately 1925ft. Turn left onto Gillock road and move Southwest approximately .63 miles then turn left onto access road and move South, then West approximately .07 miles. Turn right and move North approximately .82 miles, turn left and move Northwest approximately 1563ft to the proposed pad corner. Transportation maps identifying existing roads that will be used to access the project area are included from Coosa Surveying marked as, Donnie Brasco Fed Com Existing Access Map.

**Number of access turnouts:**

**Access turnout map:**

## Drainage Control

**New road drainage crossing:** LOW WATER

**Drainage Control comments:** The access road and associated drainage structures will be constructed and maintained in accordance with road guidelines contained in the joint BLM/USFS publication: Surface Operating Standards for Oil and Gas Exploration and Development, The Gold Book, Fourth Edition and/or BLM Manual Section 9113 concerning road construction standards on projects subject to federal jurisdiction.
**Road Drainage Control Structures (DCS) description:** The access road and associated drainage structures will be constructed and maintained in accordance with road guidelines contained in the joint BLM/USFS publication: Surface Operating Standards for Oil and Gas Exploration and Development, The Gold Book, Fourth Edition and/or BLM Manual Section 9113 concerning road construction standards on projects subject to federal jurisdiction.

**Road Drainage Control Structures (DCS) attachment:**

## Access Additional Attachments

## Section 3 - Location of Existing Wells

**Existing Wells Map?** YES

**Existing Well map Attachment:**

Donnie_B_Fed_Com_1Mile_Map_20251205060744.pdf

**Operator Name:** PERMIAN RESOURCES OPERATING LLC

**Well Name:** DONNIE BRASCO FED COM **Well Number:** 173H

## Section 4 - Location of Existing and/or Proposed Production Facilities

**Submit or defer a Proposed Production Facilities plan?** SUBMIT

**Production Facilities description:** Production Facilities. Two pads were staked for construction and use as Central Tank Batteries (CTB). Option 1: Donnie B Fed CTB 1 is approximately 555x546 (6.94 Acres) accounting for cut and fill/slopes and topsoil stockpile, located in the NWNW Section 10-23S-26E NMPM, Eddy County, New Mexico. Centerpoint: 514FWL & 1102FNL. Option 2: Donnie B Fed CTB 2 is approximately 858x530 (10.19 Acres) accounting for cut and fill/slopes and topsoil stockpile, located in the SWNW Section 10-23S-26E NMPM, Eddy County, New Mexico. Centerpoint: 496FWL & 2271FNL. Plats of the proposed facilities are attached. A 3160-5 sundry notification will be submitted after construction with a site-security diagram and layout of the facility with associated equipment. Buried & Surface Flowlines. In the event the Donnie Brasco Fed Com wells are found productive, forty-eight (48) 22in. or less buried composite flexpipe or steel flowlines with a maximum safety pressure rating of 1400psi (operating pressure: 750 psi) for transport of oil, gas, frac water, gas lift, fuel gas, and produced water are requested to one of the Donnie B CTBs. If Permian Resources Operating LLC decides to run surface lines, twenty-four (24) 4in. or less composite flexpipe or steel flowlines with a max. safety psi rating of 750 (op. psi: 125psi) for transport of oil, gas and produced water will be required to the Donnie B CTBs. Total Flowline Length to Either Option 1 or Option 2 CTB: 14,107.06ft long by 30ft wide (9.71 acres). Total includes 30 of temporary workspace for flowline installation. Midstream Tie-In. A midstream tie-in is not requested with this project. In the event that a midstream tie-in is necessary, Permian Resources Operating, LLC will file application with the appropriate authorities to construct via right-of-way. Disposal Facilities. Produced water will be hauled from location to a commercial disposal facility as needed. Once wells are drilled and completed, a 3160-5 sundry notification will be submitted to BLM in compliance with Onshore Order 7. Flare. A flare is not requested with this project. The flare will be located on the proposed CTB and submitted on the subsequent facility diagram. Aboveground Structures. All permanent (on site six months or longer) aboveground structures constructed or installed on location and not subject to safety requirements will be painted earth-tone colors such as shale green that reduce the visual impacts of the built environment. Containment Berms. Containment berms will be constructed completely around any production facilities designed to hold fluids. The containment berms will be constructed of compacted subsoil, be sufficiently impervious, hold 1.5 times the capacity of the largest tank and away from cut or fill areas. Electrical. Permian Resources does not need nor is applying for electrical. In the event that an electrical line is identified and determined to be necessary, Permian Resources will submit the appropriate documentation to the BLM utilizing either SF-299 or 3160-5 to be determined by future route.

**Production Facilities map:**

Donnie_B_Fed_Com_CTB_1_20251205060824.pdf

Donnie_B_Fed_Com_CTB_2_20251205060824.pdf

Donnie_B_Fed_Com_FL_20251205060824.pdf

## Section 5 - Location and Types of Water Supply

### Water Source Table

**Water source type:** OTHER

**Describe type:** Fresh & Recycled Water Water for drilling, completion and dust control will be purchased & supplied by a third party and stored in the Ranger Pit located SESE, Section 22, T20S, R33E, Lea County, New Mexico

**Water source use type:** DUST CONTROL

SURFACE CASING

INTERMEDIATE/PRODUCTION CASING

**Operator Name:** PERMIAN RESOURCES OPERATING LLC

**Well Name:** DONNIE BRASCO FED COM **Well Number:** 173H

STIMULATION

**Source latitude:** **Source longitude:**

**Source datum:**

**City:**

**Water source permit type:** PRIVATE CONTRACT

**Water source transport method:** PIPELINE

TRUCKING

**Source land ownership:** PRIVATE

**Source transportation land ownership:** FEDERAL

**Water source volume (barrels):** 1950000 **Source volume (acre-feet):** 251.34153785

**Source volume (gal):** 81900000

---

**Water source and transportation**

Donnie_B_Fed_Com_Wtr_20251205060904.pdf

**Water source comments:** The well will be drilled using a combination of water mud systems as outlined in the drilling program. The water will be obtained from a 3rd party vendor and hauled to the proposed location by transport truck using the existing and proposed roads depicted in the attached exhibits. No water well will be drilled on the location. Water for drilling, completion and dust control will be purchased from Boss Hog Pit located: Water for drilling, completion and dust control will be supplied by Boss Hog Pit located in the SWNE-Section 28-T23S-R26E to Permian Resources Operating, LLC in Eddy County, NM. If the commercial supplier is unable to provide water for drilling, completion, and dust control, Permian Resources will utilize the George Harvick water station located in the SESE-Section 29-T23S-R26E in Eddy County, NM. Anticipated water usage for drilling includes an estimated 50,000 barrels (bbls) of water to drill a horizontal well in a combination of fresh water and brine as detailed in the mud program in the drilling plans. These volumes are calculated for ~1.5 bbls per foot of hole drilled with excess to accommodate any lost circulation or wash out that may occur. Actual water volumes used during operations will depend on the depth of the well, length of horizontal sections, and the losses that may occur during the operation. Temporary water flowlines will be permitted via ROW approval letter and proper grants as-needed based on drilling and completion schedules. Well completion is expected to require approximately 1,950,000 bbls of water per horizontal well. Actual water volumes used during operations will depend on the depth of the well and length of horizontal sections.

**New water well?** N

## New Water Well Info

**Well latitude:** **Well Longitude:** **Well datum:**

**Well target aquifer:**

**Est. depth to top of aquifer(ft):** **Est thickness of aquifer:**

**Aquifer comments:**

**Aquifer documentation:**

**Well depth (ft):** **Well casing type:**

**Operator Name:** PERMIAN RESOURCES OPERATING LLC

**Well Name:** DONNIE BRASCO FED COM **Well Number:** 173H

**Well casing outside diameter (in.):**

**Well casing inside diameter (in.):**

**New water well casing?**

**Used casing source:**

**Drilling method:**

**Drill material:**

**Grout material:**

**Grout depth:**

**Casing length (ft.):**

**Casing top depth (ft.):**

**Well Production type:**

**Completion Method:**

**Water well additional information:**

**State appropriation permit:**

**Additional information attachment:**

## Section 6 - Construction Materials

**Using any construction materials:** YES

**Construction Materials description:** Construction, reclamation, and/or routine maintenance will not be conducted during periods when the soil conditions for construction could lead to impacts to the surrounding environment, or when watershed damage is likely to occur as a result of these activities. B. Any construction material that may be required for surfacing of the drill pad and access road will be from a contractor having a permitted source of materials within the general area. No construction materials will be removed from federal lands without prior approval from the appropriate surface management agency. All roads and well pads will be constructed of 6 rolled and compacted caliche. C. Anticipated Caliche Location: a. Pit 1: SENE-Section 18-T23S-R26E b. Pit 2: SWSW-Sec 5-T23S-R26E

**Construction Materials source location**

## Section 7 - Methods for Handling

**Waste type:** SEWAGE

**Waste content description:** Human Waste

**Amount of waste:** 250 gallons

**Waste disposal frequency :** Weekly

**Safe containment description:** Portable, self-contained toilets will be provided for human waste disposal. Upon completion of drilling and completion activities, or as required, the toilet holding tanks will be pumped and the contents thereof disposed of in an approved sewage disposal facility. All state and local laws and regulations pertaining to the disposal of human and solid waste will be complied with. This equipment will be properly maintained during the drilling and completion operations and will be removed when all operations are complete.

**Safe containmant attachment:**

**Waste disposal type:** HAUL TO COMMERCIAL FACILITY **Disposal location ownership:** COMMERCIAL

**Disposal type description:**

**Disposal location description:** A licensed 3rd party contractor to haul and dispose of human waste.

**Operator Name:** PERMIAN RESOURCES OPERATING LLC

**Well Name:** DONNIE BRASCO FED COM **Well Number:** 173H

**Waste type:** DRILLING

**Waste content description:** Fluid

**Amount of waste:** 500 barrels

**Waste disposal frequency :** One Time Only

**Safe containment description:** Steel mud boxes

**Safe containmant attachment:**

**Waste disposal type:** HAUL TO COMMERCIAL FACILITY **Disposal location ownership:** COMMERCIAL

**Disposal type description:**

**Disposal location description:** R360 Environmental Solutions 4507 W Carlsbad Hwy, Hobbs, NM 88240

**Waste type:** DRILLING

**Waste content description:** Cuttings

**Amount of waste:** 2100 pounds

**Waste disposal frequency :** One Time Only

**Safe containment description:** The well will be drilled utilizing a closed-loop mud system. Drill cuttings will be held in roll-off style mud boxes and taken to a New Mexico Oil Conservation Division (NMOCD) approved disposal site.

**Safe containmant attachment:**

**Waste disposal type:** HAUL TO COMMERCIAL FACILITY **Disposal location ownership:** COMMERCIAL

**Disposal type description:**

**Disposal location description:** R360 Environmental Solutions 4507 W Carlsbad Hwy, Hobbs, NM 88240

**Waste type:** GARBAGE

**Waste content description:** Trash

**Amount of waste:** 250 pounds

**Waste disposal frequency :** Weekly

**Safe containment description:** All garbage, junk and non-flammable waste materials will be contained in a self-contained, portable dumpster or trash cage, to prevent scattering and will be removed and deposited in an approve sanitary landfill. Immediately after drilling all debris and other waste materials on and around the well location not contained in the trash cage will be cleaned up and removed from the location. No potentially adverse materials or substances will be left on the location.

**Safe containmant attachment:**

**Waste disposal type:** HAUL TO COMMERCIAL FACILITY **Disposal location ownership:** COMMERCIAL

**Disposal type description:**

**Disposal location description:** A licensed 3rd party contractor will be used to haul and dispose of garbage.



Reserve Pit

**Operator Name:** PERMIAN RESOURCES OPERATING LLC

**Well Name:** DONNIE BRASCO FED COM **Well Number:** 173H

**Reserve Pit being used?** NO

**Temporary disposal of produced water into reserve pit?** NO

**Reserve pit length (ft.)** **Reserve pit width (ft.)**

**Reserve pit depth (ft.)** **Reserve pit volume (cu. yd.)**

**Is at least 50% of the reserve pit in cut?**

**Reserve pit liner**

**Reserve pit liner specifications and installation description**

## Cuttings Area

**Cuttings Area being used?** NO

**Are you storing cuttings on location?** Y

**Description of cuttings location** Cuttings: The well will be drilled utilizing a closed-loop mud system. Drill cuttings will be held in roll-off style mud boxes and taken to a New Mexico Oil Conservation Division (NMOCD) approved disposal site. Drilling Fluids: These will be contained in steel mud pits and then taken to a NMOCD approved commercial disposal facility. Produced Fluids: Water produced from the well during completion will be held temporarily in steel tanks and then taken to a NMOCD approved commercial disposal facility. Oil produced during operations will be stored in tanks until sold.

**Cuttings area length (ft.)** **Cuttings area width (ft.)**

**Cuttings area depth (ft.)** **Cuttings area volume (cu. yd.)**

**Is at least 50% of the cuttings area in cut?**

**Cuttings area liner**

**Cuttings area liner specifications and installation description**

## Section 8 - Ancillary

**Are you requesting any Ancillary Facilities?:** N

**Ancillary Facilities**

**Comments:**

## Section 9 - Well Site

**Well Site Layout Diagram:**

Donnie_B_Fed_Com_RL_East_20251205061013.pdf
Donnie_B_Fed_Com_WSL_East_20251205061014.pdf
Donnie_B_Fed_Com_CF_East_20251205061014.pdf
Donnie_B_Fed_Com_RL_West_20250826160214.pdf
Donnie_B_Fed_Com_WSL_West_20250826160214.pdf

**Operator Name:** PERMIAN RESOURCES OPERATING LLC

**Well Name:** DONNIE BRASCO FED COM **Well Number:** 173H

Donnie_B_Fed_Com_CF_West_20250826160214.pdf

**Comments:** There are two (2) multi-well pads requested for the Donnie Brasco Fed Com anticipated project. The proposed pads will allow enough space for cuts and fills, topsoil storage, and storm water control and sizes are approximations based on these needs. Interim reclamation of these pads is anticipated after the drilling and completion of all wells on the pad. The well site layout for all pads are attached. 1. West Pad: 598x615 (8.34 Acres), Topsoil: 50 Northeast Centerpoint: 2317FSL & 379FEL, NESE-Sec.4-T23S-R26E 2. East Pad: ~801x526 (10.52 Acres), Topsoil: 50 Northeast Centerpoint: 1364FSL & 1110FWL, NWSW, NESW, SWSW, SESW-Sec.3-T23S-R26E

## Section 10 - Plans for Surface

**Type of disturbance:** New Surface Disturbance

**Multiple Well Pad Name:** Donnie Brasco East Pad

**Multiple Well Pad Number:** 1

**Recontouring**

Donnie_B_Fed_Com_IR_East_20251205061046.pdf

Donnie_B_Fed_Com_IR_West_20250826160259.pdf

**Drainage/Erosion control construction:** Initial seedbed preparation will consist of recontouring to the appropriate interim or final reclamation standard. All compacted areas to be seeded will be ripped to a minimum depth of 18 inches with a minimum furrow spacing of 2 feet, followed by recontouring the surface and then evenly spreading the stockpiled topsoil. Prior to seeding, the seedbed will be scarified to a depth of no less than 4-6 inches.

**Drainage/Erosion control reclamation:** Erosion features are equal to or less than surrounding area and erosion control is sufficient so that water naturally infiltrates into the soil and gullying, headcutting, slumping, and deep or excessive rills (greater than 3 inches) are not observed.

| | | |
|---|---|---|
| **Well pad proposed disturbance (acres):** 18.86 | **Well pad interim reclamation (acres):** 6.27 | **Well pad long term disturbance (acres):** 12.59 |
| **Road proposed disturbance (acres):** 0.54 | **Road interim reclamation (acres):** 0 | **Road long term disturbance (acres):** 0.54 |
| **Powerline proposed disturbance (acres):** 0 | **Powerline interim reclamation (acres):** 0 | **Powerline long term disturbance (acres):** 0 |
| **Pipeline proposed disturbance (acres):** 9.71 | **Pipeline interim reclamation (acres):** 9.71 | **Pipeline long term disturbance (acres):** 0 |
| **Other proposed disturbance (acres):** 17.13 | **Other interim reclamation (acres):** 0 | **Other long term disturbance (acres):** 17.13 |
| **Total proposed disturbance:** 46.239999999999995 | **Total interim reclamation:** 15.98 | **Total long term disturbance:** 30.259999999999998 |

**Disturbance Comments:**

**Reconstruction method:** The original stock piled topsoil will be spread over the areas being reclaimed and the original landform will be restored for all disturbed areas including well pads, production facilities, roads, pipelines, and utility corridors as close as possible to the original topography. The location will then be ripped and seeded.

**Topsoil redistribution:** The original stock piled topsoil will be spread over the areas being reclaimed and the original landform will be restored for all disturbed areas including well pads, production facilities, roads, pipelines, and utility corridors as close as possible to the original topography. The location will then be ripped and seeded.

**Soil treatment:** A self-sustaining, vigorous, diverse, native (or otherwise approved) plant community will be established on the site with a density sufficient to control erosion and invasion by non-native plants and to re-establish wildlife habitat or forage production. At a minimum, the established plant community will consist of species included in the seed mix and/or desirable species occurring in the surrounding natural vegetation.

Existing Vegetation at well pad: Soils are classified as Reeves soils. These soils are associated with the loamy ecological site which typically supports black and blue grama and tobosa grasslands with an even

**Operator Name:** PERMIAN RESOURCES OPERATING LLC

**Well Name:** DONNIE BRASCO FED COM **Well Number:** 173H

distribution of yucca, mesquite, American tarbush, cholla, and creosote.

**Existing Vegetation at the well pad**

**Existing Vegetation Community at the road:** Soils are classified as Reeves soils. These soils are associated with the loamy ecological site which typically supports black and blue grama and tobosa grasslands with an even distribution of yucca, mesquite, American tarbush, cholla, and creosote.
**Existing Vegetation Community at the road**

**Existing Vegetation Community at the pipeline:** Soils are classified as Reeves soils. These soils are associated with the loamy ecological site which typically supports black and blue grama and tobosa grasslands with an even distribution of yucca, mesquite, American tarbush, cholla, and creosote.
**Existing Vegetation Community at the pipeline**

**Existing Vegetation Community at other disturbances:** Soils are classified as Reeves soils. These soils are associated with the loamy ecological site which typically supports black and blue grama and tobosa grasslands with an even distribution of yucca, mesquite, American tarbush, cholla, and creosote.
**Existing Vegetation Community at other disturbances**

**Non native seed used?** N

**Non native seed description:**

**Seedling transplant description:**

**Will seedlings be transplanted for this project?** N

**Seedling transplant description attachment:**

**Will seed be harvested for use in site reclamation?** N

**Seed harvest description:**

**Seed harvest description attachment:**

## Seed

## Seed Table

## Seed Summary

**Total pounds/Acre:**

| Seed Type | Pounds/Acre |
|---|---|

**Seed reclamation**

## Operator Contact/Responsible Official



First Name: **Last Name:**

**Operator Name:** PERMIAN RESOURCES OPERATING LLC

**Well Name:** DONNIE BRASCO FED COM **Well Number:** 173H

**Phone:** **Email:**

**Seedbed prep:** Initial seedbed preparation will consist of recontouring to the appropriate interim or final reclamation standard. All compacted areas to be seeded will be ripped to a minimum depth of 18 inches with a minimum furrow spacing of 2 feet, followed by recontouring the surface and then evenly spreading the stockpiled topsoil. Prior to seeding, the seedbed will be scarified to a depth of no less than 4-6 inches. If the site is to be broadcast seeded, the surface will be left rough enough to trap seed and snow, control erosion, and increase water infiltration.

**Seed BMP:** If broadcast seeding is to be used and is delayed, final seedbed preparation will consist of contour cultivating to a depth of 4-6 inches within 24 hours prior to seeding, dozer tracking, or other imprinting in order to break the soil crust and create seed germination micro-sites.
**Seed method:** Seeding will be conducted no more than two weeks following completion of final seedbed preparation. A certified weed-free seed mix designed by the BLM to meet reclamation standards will be used.

**Existing invasive species?** N

**Existing invasive species treatment description:**

**Existing invasive species treatment**

**Weed treatment plan description:** Weed control for all phases will be through the use of approved pesticides and herbicides according to applicable State, Federal and local laws.
**Weed treatment plan**

**Monitoring plan description:** Monitoring of invasive and noxious weeds will be visual and as-needed. If it is determined additional methods are required to monitor invasive and noxious weeds, appropriate BLM authorities will be contacted with a plan of action for approval prior to implementation.
**Monitoring plan**

**Success standards:** 100% compliance with applicable regulations.

**Pit closure description:** There will be no reserve pit as each well will be drilled utilizing a closed loop mud system. The closed loop system will meet the NMOCD requirements 19.15.17.
**Pit closure attachment:**

## Section 11 - Surface

**Disturbance type:** WELL PAD

**Describe:**

**Surface Owner:** BUREAU OF LAND MANAGEMENT

**Other surface owner description:**

**BIA Local Office:**

**BOR Local Office:**

**COE Local Office:**

**DOD Local Office:**

**NPS Local Office:**

**State Local Office:**

**Military Local Office:**

**USFWS Local Office:**

**Operator Name:** PERMIAN RESOURCES OPERATING LLC

**Well Name:** DONNIE BRASCO FED COM **Well Number:** 173H

**Other Local Office:**

**USFS Region:**

**USFS Forest/Grassland:** **USFS Ranger District:**

**Disturbance type:** EXISTING ACCESS ROAD

**Describe:**

**Surface Owner:** BUREAU OF LAND MANAGEMENT

**Other surface owner description:**

**BIA Local Office:**

**BOR Local Office:**

**COE Local Office:**

**DOD Local Office:**

**NPS Local Office:**

**State Local Office:**

**Military Local Office:**

**USFWS Local Office:**

**Other Local Office:**

**USFS Region:**

**USFS Forest/Grassland:** **USFS Ranger District:**

**Disturbance type:** NEW ACCESS ROAD

**Describe:**

**Surface Owner:** BUREAU OF LAND MANAGEMENT,STATE GOVERNMENT

**Other surface owner description:**

**BIA Local Office:**

**BOR Local Office:**

**COE Local Office:**

**DOD Local Office:**

**NPS Local Office:**

**Operator Name:** PERMIAN RESOURCES OPERATING LLC

**Well Name:** DONNIE BRASCO FED COM **Well Number:** 173H

**State Local Office:** STATE LAND OFFICE

**Military Local Office:**

**USFWS Local Office:**

**Other Local Office:**

**USFS Region:**

**USFS Forest/Grassland:** **USFS Ranger District:**

**Disturbance type:** OTHER

**Describe:** Flowline

**Surface Owner:** BUREAU OF LAND MANAGEMENT,STATE GOVERNMENT

**Other surface owner description:**

**BIA Local Office:**

**BOR Local Office:**

**COE Local Office:**

**DOD Local Office:**

**NPS Local Office:**

**State Local Office:** STATE LAND OFFICE

**Military Local Office:**

**USFWS Local Office:**

**Other Local Office:**

**USFS Region:**

**USFS Forest/Grassland:** **USFS Ranger District:**

**Disturbance type:** OTHER

**Describe:** CTB

**Surface Owner:** STATE GOVERNMENT

**Other surface owner description:**

**BIA Local Office:**



**BOR Local Office:**

**Operator Name:** PERMIAN RESOURCES OPERATING LLC

**Well Name:** DONNIE BRASCO FED COM **Well Number:** 173H

**COE Local Office:**

**DOD Local Office:**

**NPS Local Office:**

**State Local Office:** STATE LAND OFFICE

**Military Local Office:**

**USFWS Local Office:**

**Other Local Office:**

**USFS Region:**

**USFS Forest/Grassland:** **USFS Ranger District:**

## Section 12 - Other

**Right of Way needed?** Y **Use APD as ROW?** Y

**ROW Type(s):** 281001 ROW - ROADS,288100 ROW – O&G Pipeline,289001 ROW- O&G Well Pad

## ROW

**SUPO Additional Information:**

**Use a previously conducted onsite?** Y

**Previous Onsite information:** Onsite: March 10, 2025 with Jeff Robertson (BLM Natural Resource Specialist). Also in attendance were a BLM Hydrologist; James Scott, Construction Superintendent Permian Resources; James Ornelas, Permian Resources Surface Landman; Suzanne Mills; Permian Resources Well Planner; Coosa Consulting.

## Other SUPO

Donnie_B_Fed_Com_SUPO_20251205061145.pdf

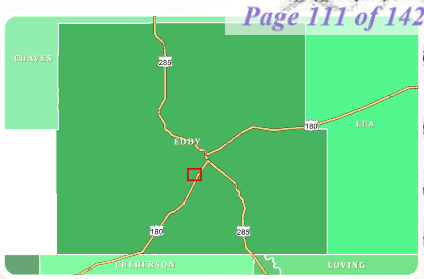
Donnie_B_Fed_Com_Well_List_20250826160331.pdf

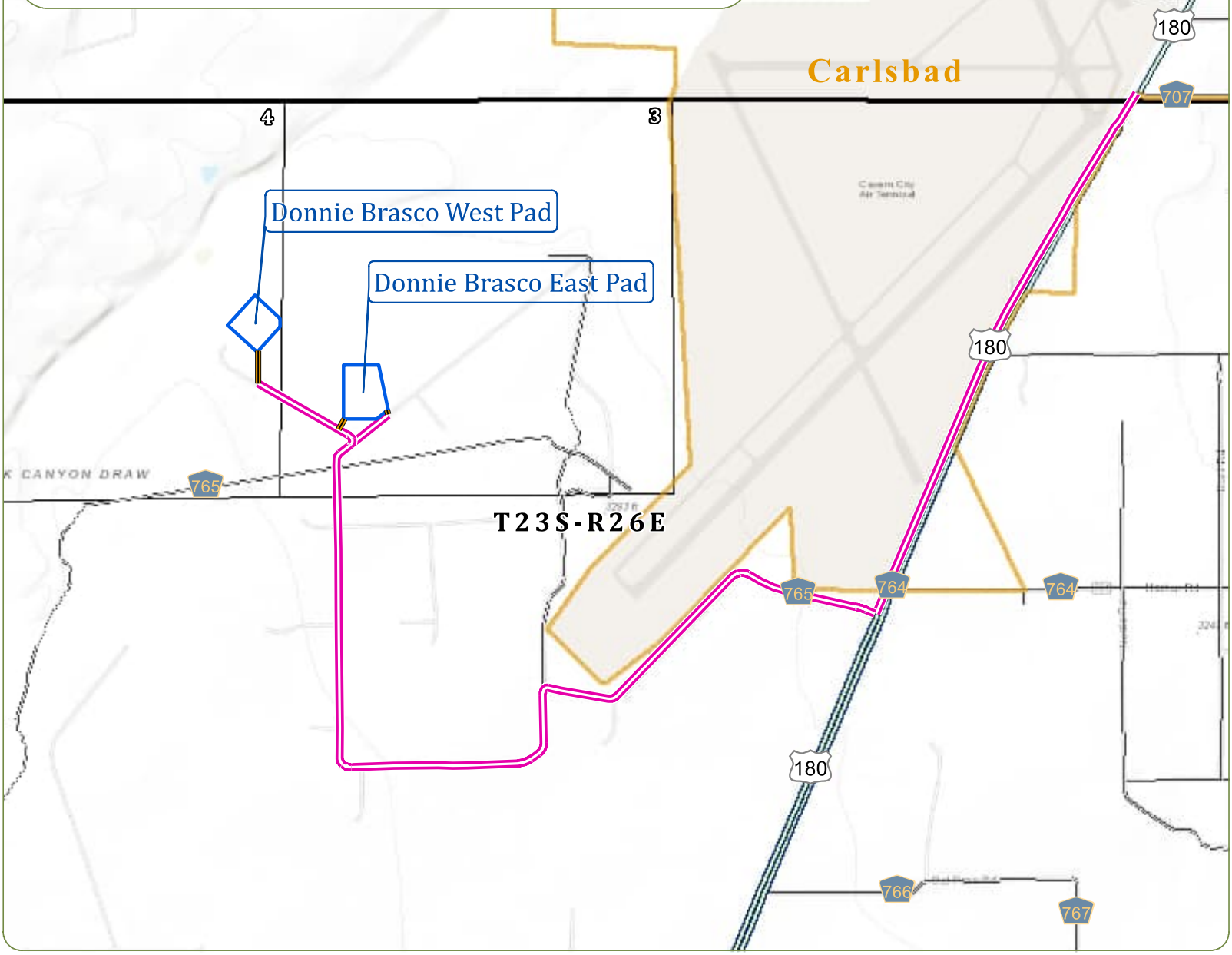
# EXISTING ROAD MAP

SECTION 4 & 3, TOWNSHIP 23 SOUTH, RANGE 26 EAST, EDDY COUNTY, NEW MEXICO

**DIRECTIONS TO LOCATION:**

FROM THE INTERSECTION OF US-180 AND CR-707 IN CARLSBAD, NEW MEXICO
1. MOVE SOUTHWEST ON US-180 APPROX. 1.5 MILES;
2. TURN RIGHT ONTO CR-765 AND MOVE WEST APPROX. 1925 FEET;
3. TURN LEFT ONTO GILLOCK RD AND MOVE SOUTHWEST APPROX. 0.63 MILES;
4. TURN LEFT ONTO ACCESS RD AND MOVE SOUTH AND THEN WEST APPROX. 0.7 MILES;
5. TURN RIGHT AND MOVE NORTH APPROX.0.82 MILES, FROM THIS POINT:
6. WEST PAD - TURN LEFT AND MOVE NORTHWEST APPROX. 1563 FEET,
THEN TURN RIGHT ON ACCESS RD. AND MOVE NORTH APPROX. 443 FEET TO SOUTH PAD CORNER;
7. EAST PAD - HEAD STRAIGHT NORTHEAST APPROX. 647 FEET,
THEN TURN LEFT AND MOWE NORTHWEST APPROX. 58 FEET TO SOUTHEAST PAD CORNER




| 1:24,000 | 0 | 1,600 | 3,200 | 4,800 Feet |
|---|---|---|---|---|

COOSA CONSULTING
**PERMIAN BASIN**
PO Box 1583
Midland, TX 79702
**CONTACT**
Email: info@coosaconsulting.com
Office : (432) 631-4738

Coordinate System:
NAD 1983 StatePlane New Mexico East FIPS 3001 Feet
Projection: Transverse Mercator
Datum: North American 1983
False Easting: 541,337.5000
False Northing: 0.0000
Central Meridian: -104.3333
Scale Factor: 0.9999
Latitude Of Origin: 31.0000
Units: Foot US

**Legend**

- Access Road
- Driving Route
- Well Pad
- Freeways Highways
- Major Road
- Local Road

## Donnie Brasco

**OPERATOR:**
**PERMIAN RESOURCES OPERATING, LLC**

PERMIAN RESOURCES



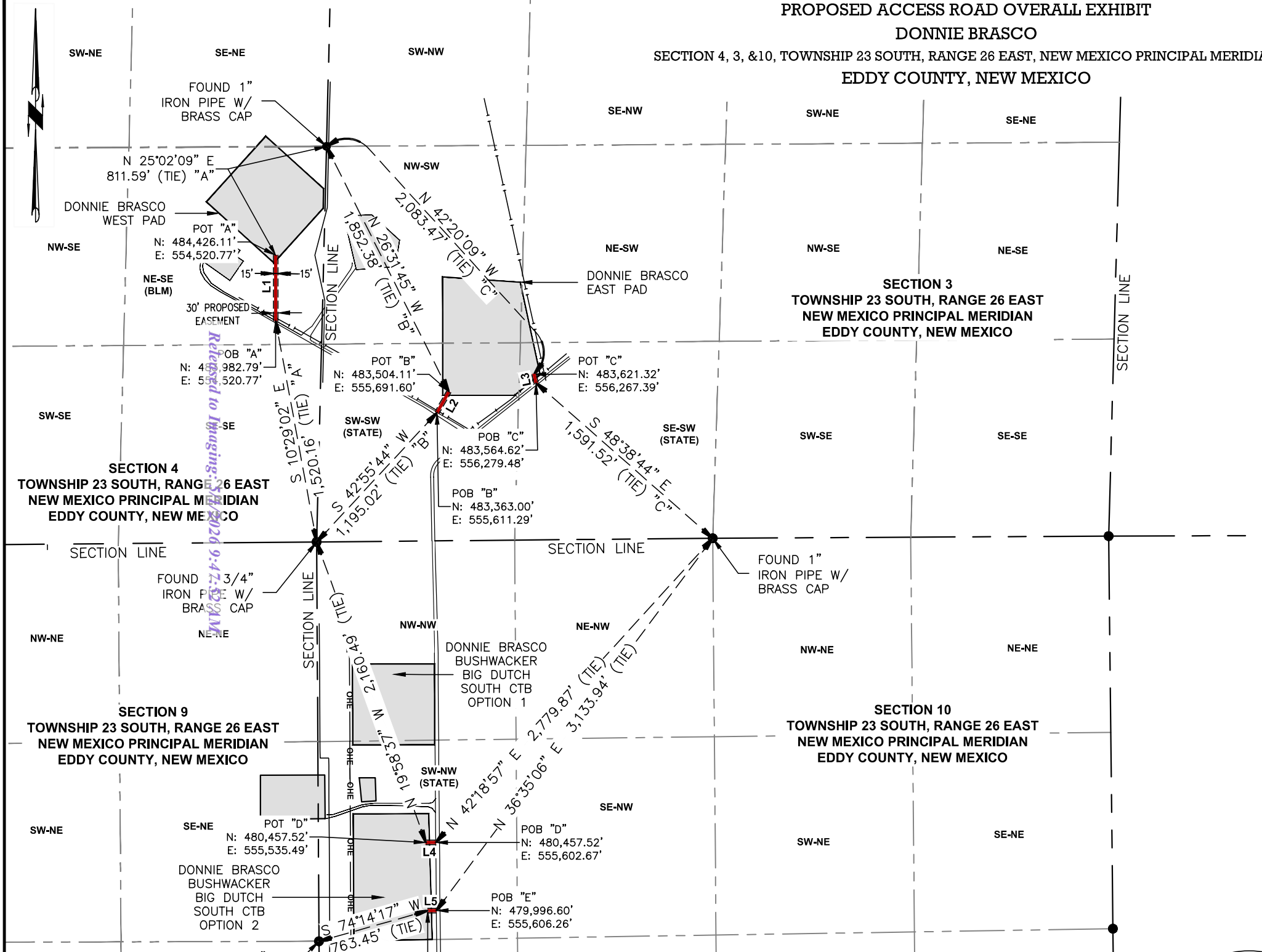
Rev: 0

# PROPOSED ACCESS ROAD OVERALL EXHIBIT

## DONNIE BRASCO

SECTION 4, 3, &10, TOWNSHIP 23 SOUTH, RANGE 26 EAST, NEW MEXICO PRINCIPAL MERIDIA

## EDDY COUNTY, NEW MEXICO

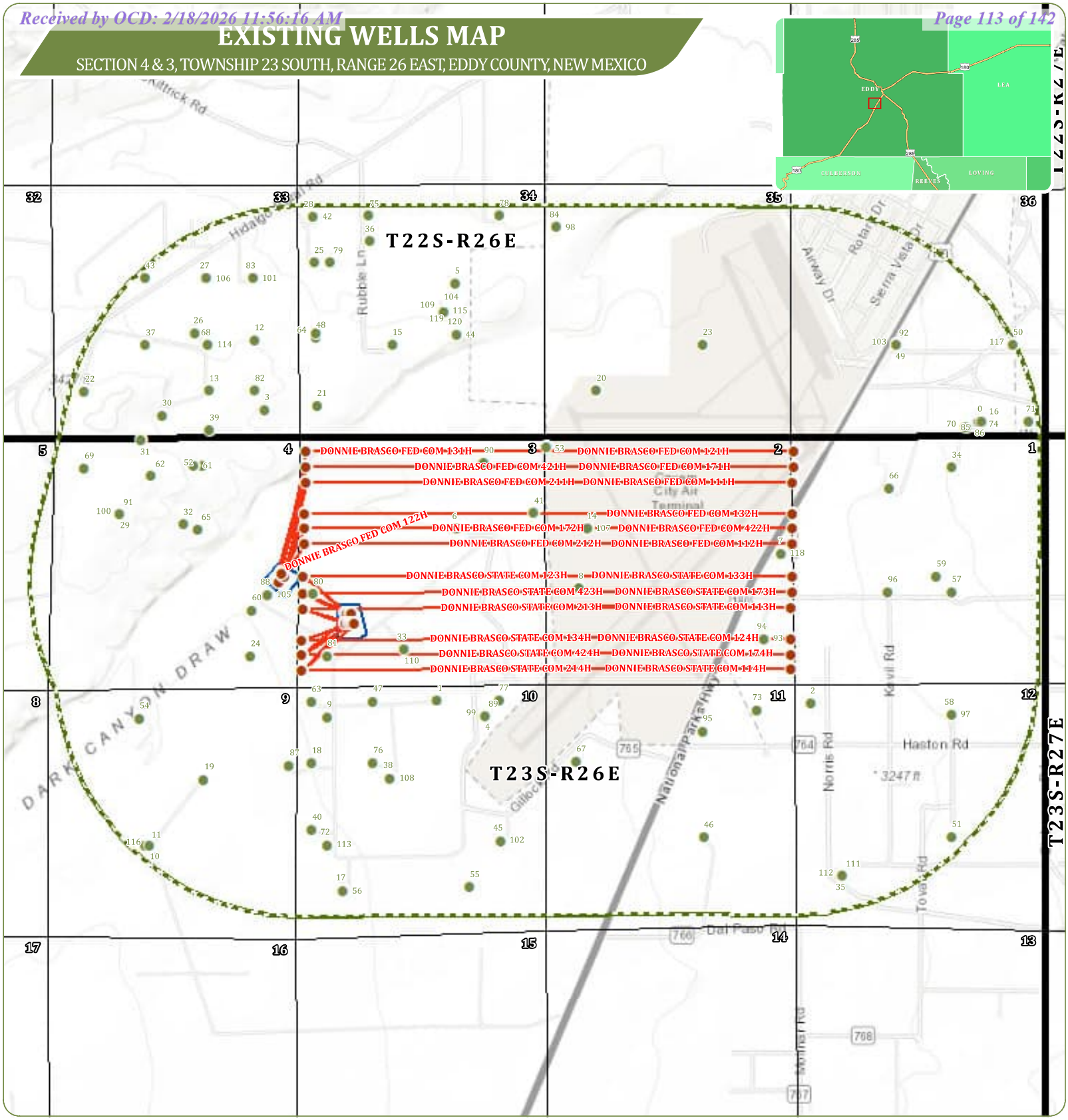



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# EXISTING WELLS MAP

SECTION 4 & 3, TOWNSHIP 23 SOUTH, RANGE 26 EAST, EDDY COUNTY, NEW MEXICO




| 1:33,000 | 0 | 2,300 | 4,600 | 6,900 Feet |
|---|---|---|---|---|

COOSA CONSULTING
PERMIAN BASIN
PO Box 1583
Midland, TX 79702
CONTACT
Email: info@coosaconsulting.com
Office : (432) 631-4738

Coordinate System:
NAD 1983 StatePlane New Mexico East FIPS 3001 Feet
Projection: Transverse Mercator
Datum: North American 1983
False Easting: 541,337.5000
False Northing: 0.0000
Central Meridian: -104.3333
Scale Factor: 0.9999
Latitude Of Origin: 31.0000
Units: Foot US

## Legend

- SHL/FTP/LTP/BHL
- Existing Wells
- Wellbore
- Well Pad
- 1 Mile Buffer

## Donnie Brasco

**OPERATOR:**
**PERMIAN RESOURCES OPERATING, LLC**

PERMIAN RESOURCES

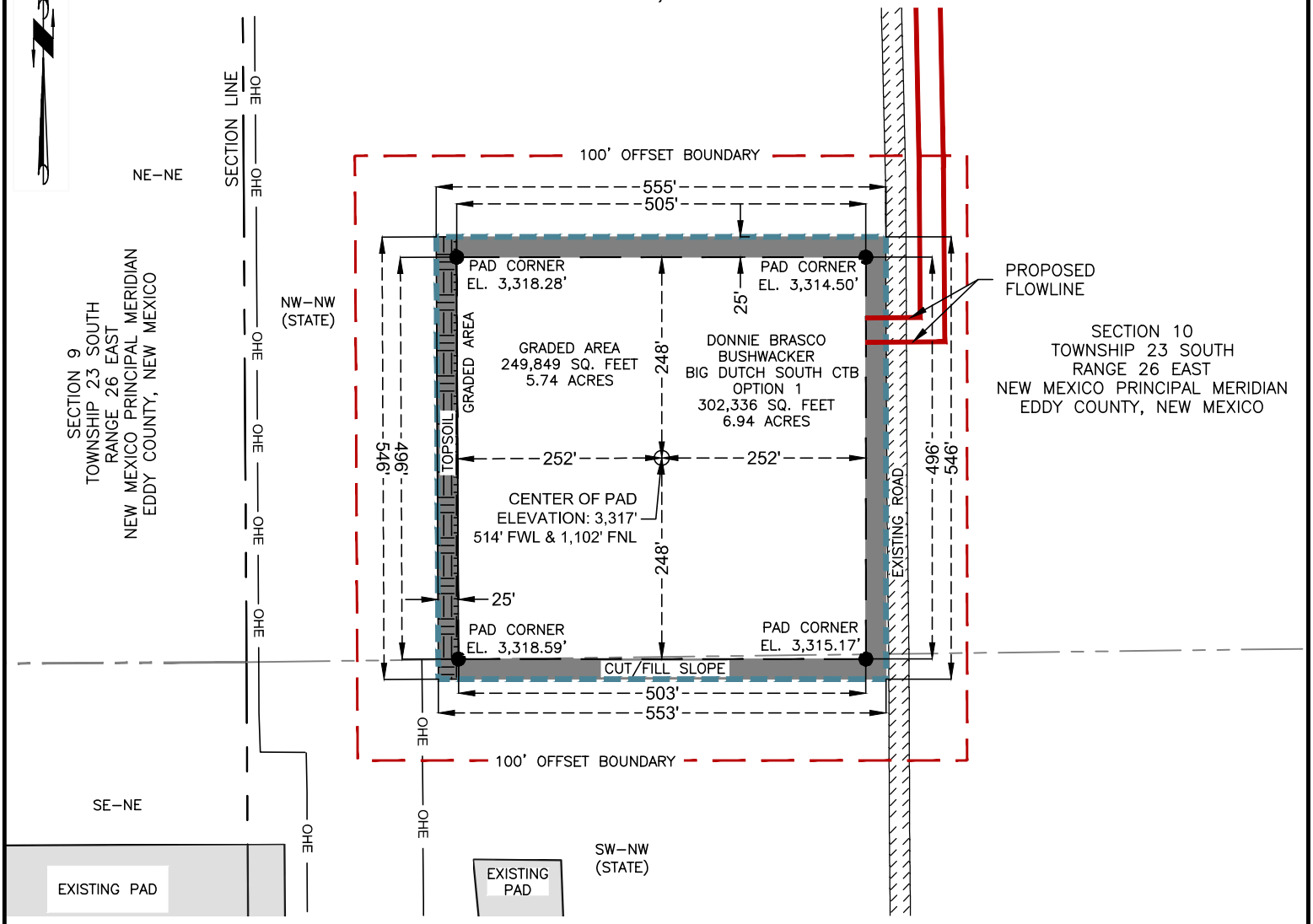

Rev: 0

# SITE PLAN

## DONNIE BRASCO BUSHWACKER BIG DUTCH SOUTH CTB

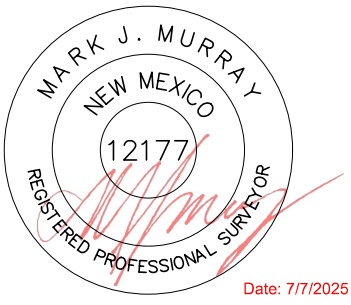
SECTION 10, TOWNSHIP 23 SOUTH, RANGE 26 EAST, NEW MEXICO PRINCIPAL MERIDIAN

EDDY COUNTY, NEW MEXICO




## LEGEND

- SURVEY LINES
- EXISTING FENCE
- EXISTING ELECTRIC (OHE)
- FOREIGN PIPELINE
- PROPOSED SURFACE SITE
- PROPOSED ACCESS ROAD
- PROPOSED FLOWLINE
- PROPOSED SURFACE HOLE
- PAD CORNER
- TOPSOIL




Date: 7/7/2025

200' 0' 200'

PERMIAN RESOURCES

NOTES:
1.) BEARINGS AND COORDINATES ARE GRID AS DERIVED FROM GPS OBSERVATION AND ARE BASED ON THE STATE PLANE COORDINATES FOR THE NEW MEXICO EAST ZONE 3001-NAD83.
2.) CERTIFICATION IS MADE ONLY TO THE LOCATION OF THIS EASEMENT. IN RELATION TO THE EVIDENCE DURING A FIELD SURVEY, MADE ON THE GROUND, UNDER MY SUPERVISION, AND USING DOCUMENTATION PROVIDED BY THE CLIENT. ONLY UTILITIES/EASEMENTS THAT WERE VISIBLE ON THE DATE OF THIS SURVEY, WITHIN/ADJOINING THIS EASEMENT, HAVE BEEN LOCATED AS SHOWN HEREON OF WHICH I HAVE KNOWLEDGE. THIS CERTIFICATION IS LIMITED TO THOSE PERSONS OR ENTITIES KNOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE, AND MADE FOR THIS TRANSACTION ONLY.

| | | | | |
|---|---|---|---|---|
| DWG: DONNIE BRASCO_BUSHWACKER_BIG_DUTCH_SOUTH_CTB_OPT_1_SITE_PLAN | Drawn: VG | Date: 06/27/2025 | Job: 25-012876 | Scale: 1" = 200' |
| DRAWING PATH: D:\Coosa Consulting Dropbox\Coosa Consulting\Clients - Projects\Permian Resources\25-012876_Donnie Brasco\Drafting\SITE PLAN | Checked: MJM | Date: 06/27/2025 | REVISION NO. 0 | SHEET 1 OF 1 |

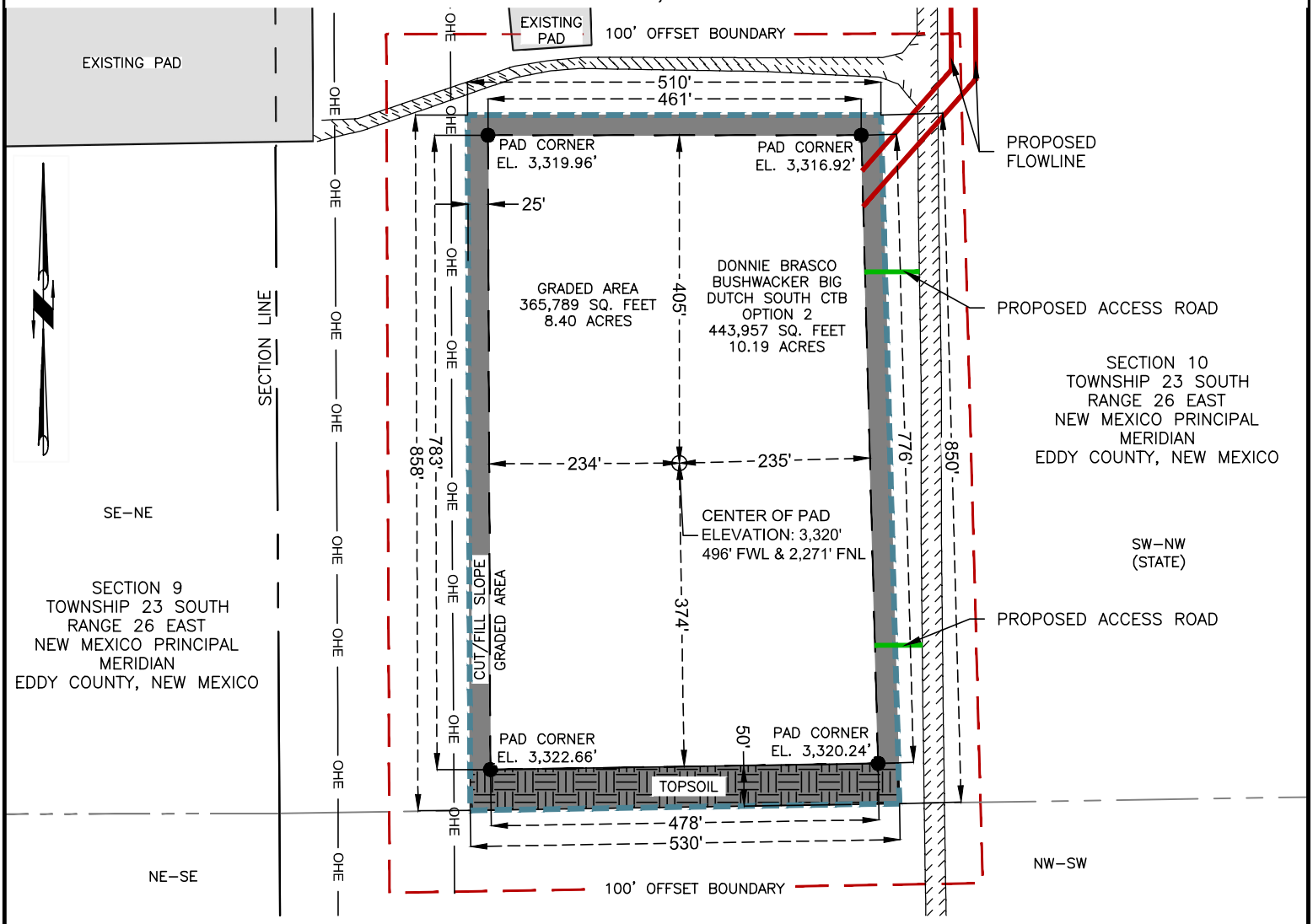
COOSA CONSULTING
PO BOX 1583, MIDLAND, TEXAS 79701
FIRM NO. 10194822

# SITE PLAN

## DONNIE BRASCO BUSHWACKER BIG DUTCH SOUTH CTB

SECTION 10, TOWNSHIP 23 SOUTH, RANGE 26 EAST, NEW MEXICO PRINCIPAL MERIDIAN

EDDY COUNTY, NEW MEXICO




## LEGEND

- SURVEY LINES
- EXISTING FENCE
- EXISTING ELECTRIC
- FOREIGN PIPELINE
- PROPOSED SURFACE SITE
- PROPOSED ACCESS ROAD
- PROPOSED FLOWLINE
- PROPOSED SURFACE HOLE
- PAD CORNER
- TOPSOIL

MARK J. MURRAY
NEW MEXICO
12177
REGISTERED PROFESSIONAL SURVEYOR

Date: 7/7/2025

200' 0' 200'

PERMIAN RESOURCES

NOTES:
1.) BEARINGS AND COORDINATES ARE GRID AS DERIVED FROM GPS OBSERVATION AND ARE BASED ON THE STATE PLANE COORDINATES FOR THE NEW MEXICO EAST ZONE 3001-NAD83.
2.) CERTIFICATION IS MADE ONLY TO THE LOCATION OF THIS EASEMENT. IN RELATION TO THE EVIDENCE DURING A FIELD SURVEY, MADE ON THE GROUND, UNDER MY SUPERVISION, AND USING DOCUMENTATION PROVIDED BY THE CLIENT. ONLY UTILITIES/EASEMENTS THAT WERE VISIBLE ON THE DATE OF THIS SURVEY, WITHIN/ADJOINING THIS EASEMENT, HAVE BEEN LOCATED AS SHOWN HEREON OF WHICH I HAVE KNOWLEDGE. THIS CERTIFICATION IS LIMITED TO THOSE PERSONS OR ENTITIES KNOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE, AND MADE FOR THIS TRANSACTION ONLY.

| | | | | |
|---|---|---|---|---|
| DWG: DONNIE BRASCO_BUSHWACKER_BIG_DUTCH_SOUTH_CTB_OPT_2_SITE_PLAN | Drawn: VG | Date: 06/27/2025 | Job: 25-012876 | Scale: 1" = 200' |
| DRAWING PATH: D:\Coosa Consulting Dropbox\Coosa Consulting\Clients - Projects\Permian Resources\25-012876_Donnie Brasco\Drafting\SITE PLAN | Checked: MJM | Date: 06/27/2025 | REVISION NO. 0 | SHEET 1 OF 1 |

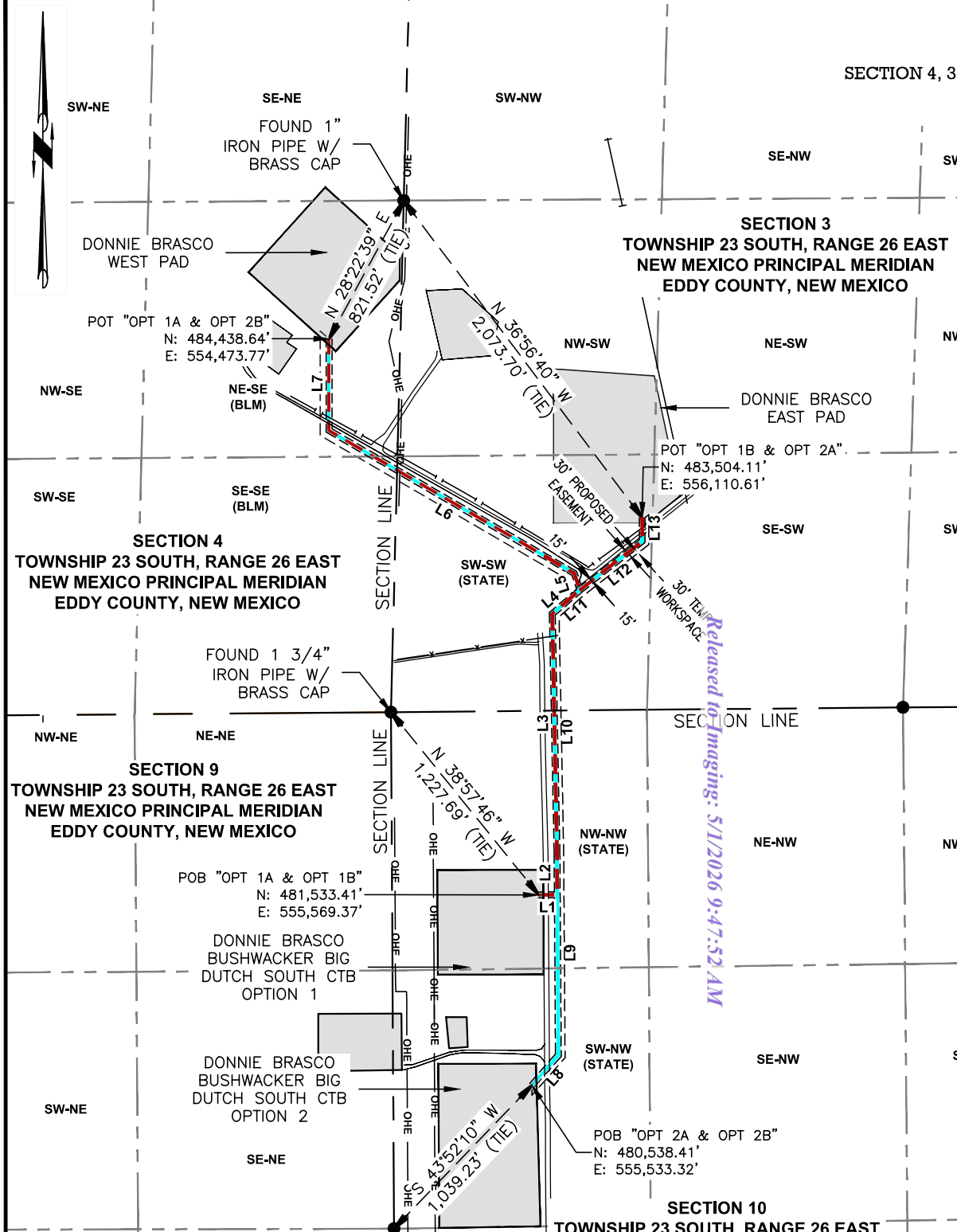
COOSA CONSULTING
PO BOX 1583, MIDLAND, TEXAS 79701
FIRM NO. 10194822

# PROPOSED SURFACE AND BURIED FLOWLINE EXHIBIT

## DONNIE BRASCO

SECTION 4, 3, &10, TOWNSHIP 23 SOUTH, RANGE 26 EAST, NEW MEXICO PRINCIPAL MERIDIA

EDDY COUNTY, NEW MEXICO




Released to Imaging: 5/1/2026 9:47:52 AM

### FLOWLINE OPTION 1A

| | |
|---|---|
| 0+00.00 | POINT OF BEGINNING @ THE NE CORNER OF THE DONNIE BRASCO BUSHWACKER BIG DUTCH SOUTH CTB OPTION 1 |
| 0+97.25 | P.I. OF 90°00'00" RT. |
| 3+12.19 | P.I. OF 0°44'18" LT. |
| 15+66.04 | P.I. OF 50°31'58" LT. |
| 17+55.94 | P.I. OF 68°10'44" RT. |
| 18+48.31 | P.I. OF 41°01'06" LT. |
| 33+31.13 | P.I. OF 59°47'07" RT. |
| 38+09.95 | POINT OF TERMINATION @ THE S CORNER OF THE DONNIE BRASCO WEST PAD |

### OPTION 1A FLOWLINE TABLE

| BEARING AND DISTANCE | | |
|---|---|---|
| LINE # | BEARING | DISTANCE |
| L1 | N 89°37'03" E | 97.25' |
| L2 | N 00°22'57" W | 214.94' |
| L3 | N 01°07'15" W | 1,253.85' |
| L4 | N 49°24'42" E | 189.90' |
| L5 | N 18°46'01" W | 92.37' |
| L6 | N 59°47'08" W | 1,482.82' |
| L7 | N 00°00'01" W | 478.82' |

### FLOWLINE OPTION 2A

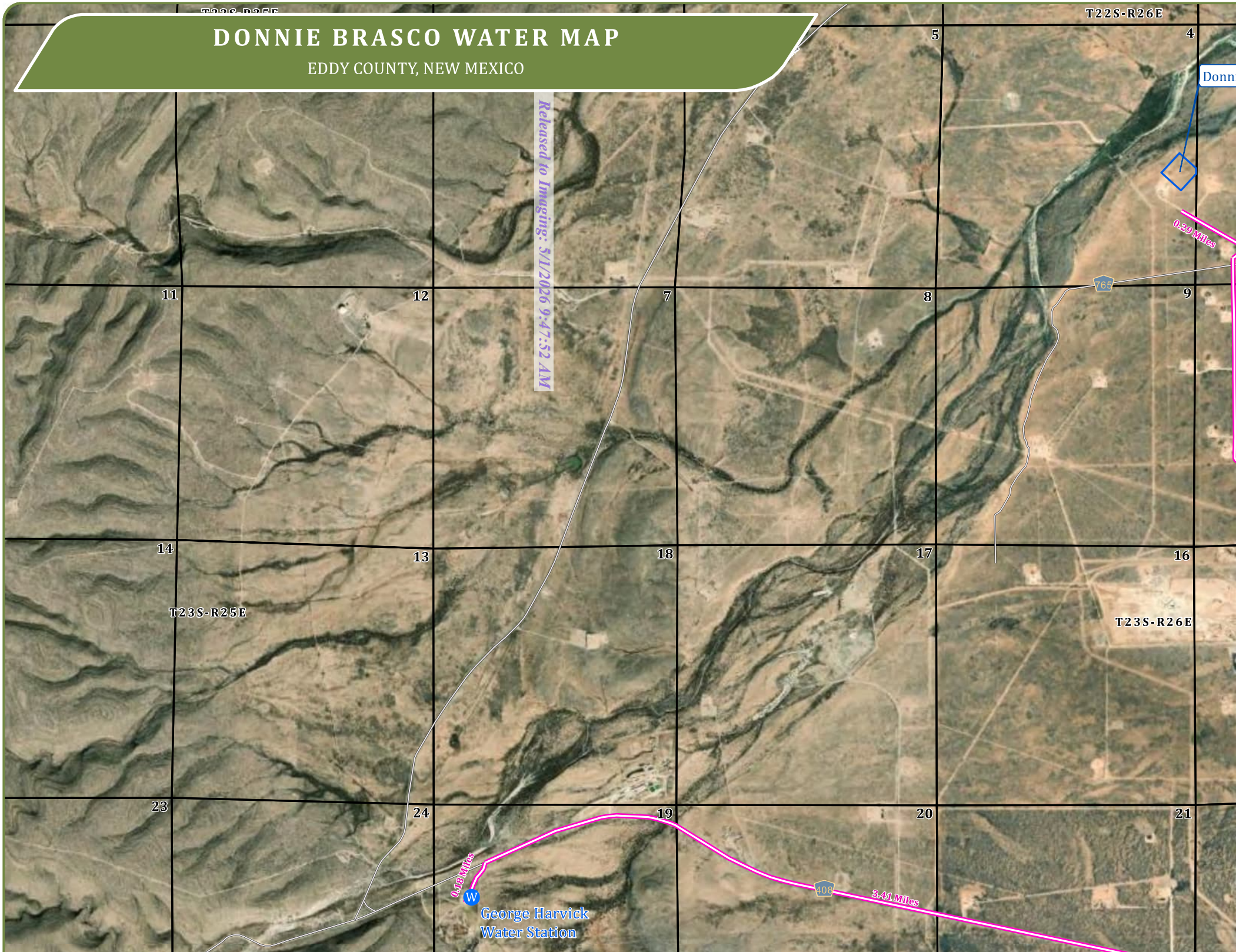
| | |
|---|---|
| 0+00.00 | POINT OF BEGINNING @ THE NE CORNER OF THE DONNIE BRASCO BUSHWACKER BIG DUTCH SOUTH CTB OPTION 2 |
| 2+09.59 | P.I. OF 41°53'31" RT. |
| 12+63.25 | P.I. OF 0°44'18" LT. |
| 25+17.10 | P.I. OF 50°31'58" LT. |
| 27+07.00 | P.I. OF 2°31'06" RT. |
| 31+20.76 | P.I. OF 64°14'44" RT. |
| 32+43.58 | POINT OF TERMINATION @ THE SE CORNER OF THE DONNIE BRASCO EAST PAD |

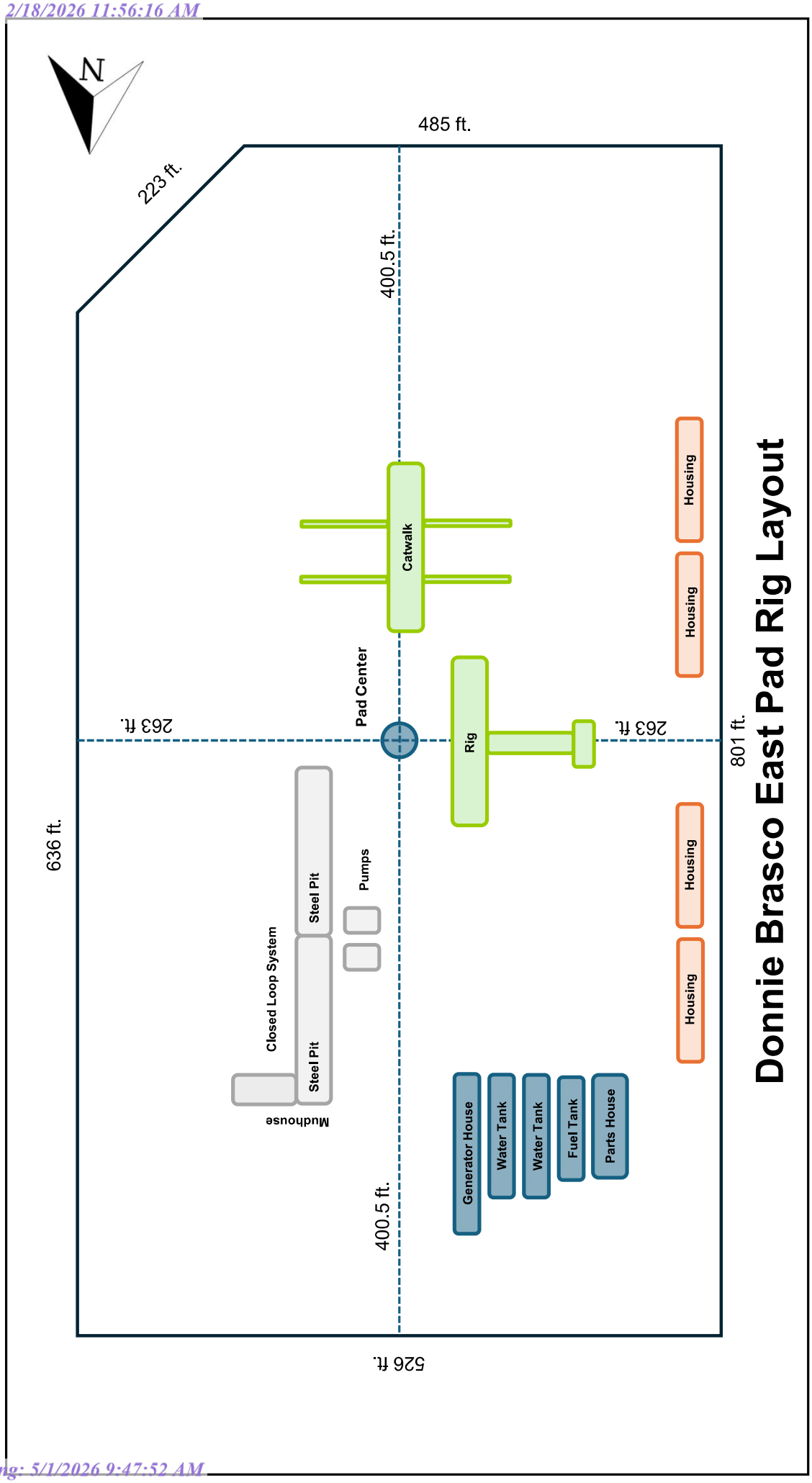
### OPTION 2A FLOWLINE TABLE

| BEARING AND DISTANCE | | |
|---|---|---|
| LINE # | BEARING | DISTANCE |
| L8 | N 41°30'34" E | 209.59' |
| L9 | N 00°22'57" W | 1,053.66' |
| L10 | N 01°07'15" W | 1,253.85' |
| L11 | N 49°24'42" E | 189.90' |
| L12 | N 51°55'48" E | 92.37' |
| L13 | N 00°00'00" E | 478.82' |

# DONNIE BRASCO WATER MAP

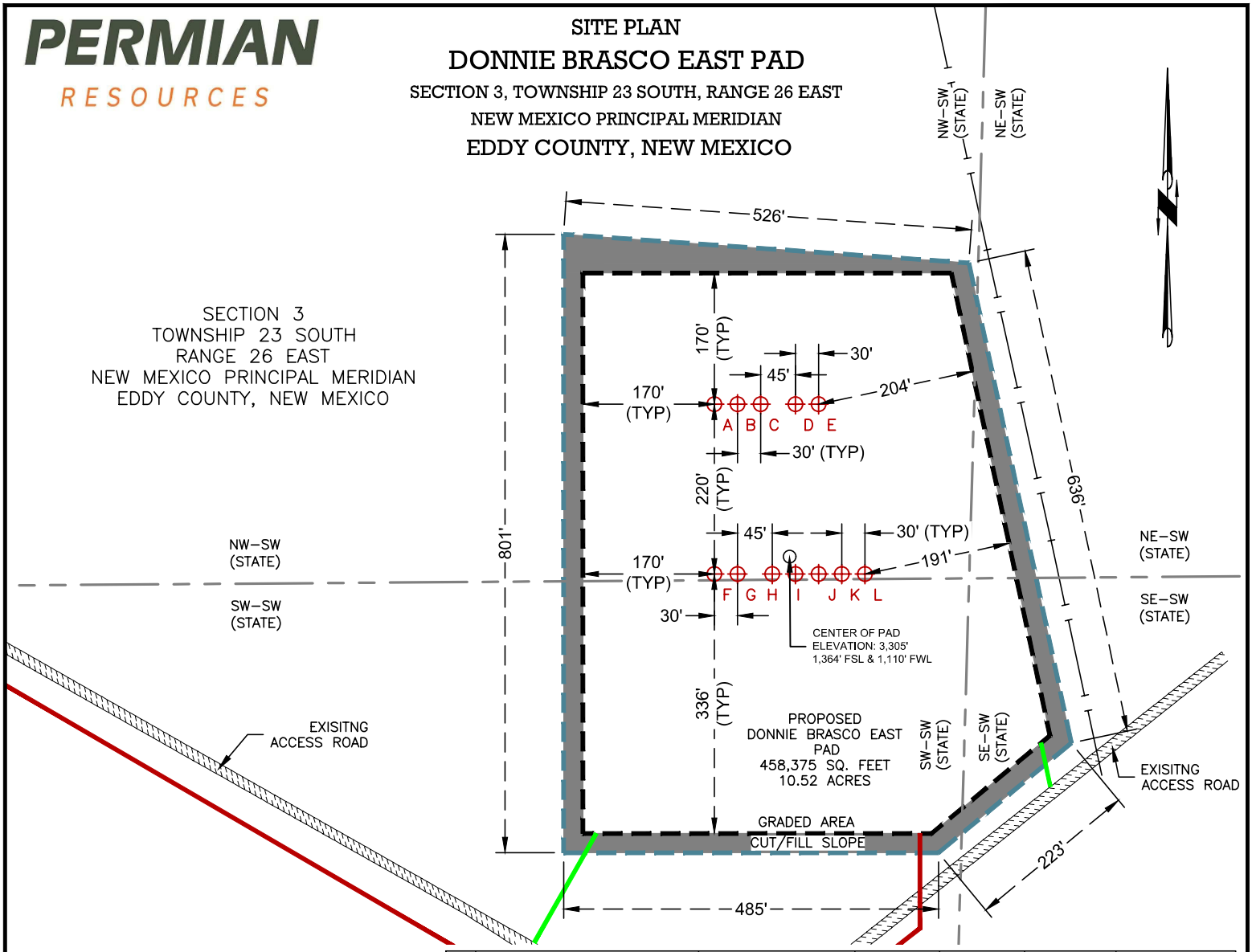
EDDY COUNTY, NEW MEXICO




N
485 ft.
223 ft.
400.5 ft.
Catwalk
Housing
Housing
Pad Center
263 ft.
Rig
263 ft.
801 ft.
636 ft.
Housing
Housing
Steel Pit
Pumps
Closed Loop System
Steel Pit
Mudhouse
Generator House
Water Tank
Water Tank
Fuel Tank
Parts House
400.5 ft.
526 ft.
Donnie Brasco East Pad Rig Layout

PERMIAN RESOURCES

# SITE PLAN
# DONNIE BRASCO EAST PAD
SECTION 3, TOWNSHIP 23 SOUTH, RANGE 26 EAST
NEW MEXICO PRINCIPAL MERIDIAN
EDDY COUNTY, NEW MEXICO




LEGEND
- SURVEY LINES
- PROPOSED SURFACE SITE
- PROPOSED ACCESS ROAD
- PROPOSED PIPELINE
- OHE — EXISTING ELECTRIC
- EXISTING PIPELINE
- X — EXISTING FENCE
- EDGE OF PAVEMENT
- PROPOSED SURFACE HOLE LOCATION
- CUT/FILL SLOPE

200' 0' 200'

| ID | WELL NAME | DISTANCE | NAD83 X | NAD83 Y | NAD83 LAT. | NAD83 LONG. |
|---|---|---|---|---|---|---|
| A | DONNIE BRASCO FED COM 173H | 1,562' FSL - 1,007' FWL | 555,844.34' | 484,060.12' | 32.330744° | -104.286366° |
| B | DONNIE BRASCO FED COM 133H | 1,562' FSL - 1,037' FWL | 555,874.34' | 484,060.12' | 32.330744° | -104.286269° |
| C | DONNIE BRASCO FED COM 123H | 1,562' FSL - 1,067' FWL | 555,904.34' | 484,060.12' | 32.330744° | -104.286172° |
| D | DONNIE BRASCO FED COM 423H | 1,561' FSL - 1,112' FWL | 555,949.34' | 484,060.12' | 32.330744° | -104.286026° |
| E | DONNIE BRASCO FED COM 424H | 1,561' FSL - 1,142' FWL | 555,979.34' | 484,060.12' | 32.330744° | -104.285929° |
| F | DONNIE BRASCO FED COM 113H | 1,342' FSL - 1,013' FWL | 555,844.34' | 483,840.12' | 32.330140° | -104.286366° |
| G | DONNIE BRASCO FED COM 114H | 1,342' FSL - 1,043' FWL | 555,874.34' | 483,840.12' | 32.330140° | -104.286269° |
| H | DONNIE BRASCO FED COM 124H | 1,342' FSL - 1,088' FWL | 555,919.34' | 483,840.12' | 32.330140° | -104.286123° |
| I | DONNIE BRASCO FED COM 134H | 1,341' FSL - 1,118' FWL | 555,949.34' | 483,840.12' | 32.330140° | -104.286026° |
| J | DONNIE BRASCO FED COM 174H | 1,341' FSL - 1,148' FWL | 555,979.34' | 483,840.12' | 32.330140° | -104.285929° |
| K | DONNIE BRASCO FED COM 213H | 1,341' FSL - 1,178' FWL | 556,009.34' | 483,840.12' | 32.330139° | -104.285832° |
| L | DONNIE BRASCO FED COM 214H | 1,340' FSL - 1,208' FWL | 556,039.34' | 483,840.12' | 32.330139° | -104.285735° |

MARK J. MURRAY NEW MEXICO 12177 REGISTERED PROFESSIONAL SURVEYOR

Date: 11/5/2025

NOTES:
1.) BEARINGS AND COORDINATES ARE GRID AS DERIVED FROM GPS OBSERVATION AND ARE BASED ON THE STATE PLANE COORDINATES FOR THE NEW MEXICO EAST ZONE 3001-NAD83.
2.) CERTIFICATION IS MADE ONLY TO THE LOCATION OF THIS EASEMENT. IN RELATION TO THE EVIDENCE DURING A FIELD SURVEY, MADE ON THE GROUND, UNDER MY SUPERVISION, AND USING DOCUMENTATION PROVIDED BY THE CLIENT. ONLY UTILITIES/EASEMENTS THAT WERE VISIBLE ON THE DATE OF THIS SURVEY, WITHIN/ADJOINING THIS EASEMENT, HAVE BEEN LOCATED AS SHOWN HEREON OF WHICH I HAVE KNOWLEDGE. THIS CERTIFICATION IS LIMITED TO THOSE PERSONS OR ENTITIES KNOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE, AND MADE FOR THIS TRANSACTION ONLY.

DWG: DONNIE BRASCO_EAST_WP_SITE_PLAN

DRAWING PATH: P:\Clients - Projects\Permian Resources\25-012876_Donnie Brasco\Drafting\SITE PLAN

| Drawn: ASH | Date: 11/05/2025 | Job: 25-012876 | Scale: 1" = 200' |
|---|---|---|---|
| Checked: MJM | Date: 11/05/2025 | REVISION NO. 1 | PAGE 1 OF 1 |

COOSA CONSULTING
PO BOX 1583, MIDLAND, TEXAS 79701
FIRM NO. 10194822

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# EDDY COUNTY, NEW MEXICO

PLAN SCALE 1" = 100'

EXISTING EL.: 3,306.12'
FINISHED EL.: 3,305.61'
CUT: 0.51'

| ID | WELL NAME |
|---|---|
| A | DONNIE BRASCO FED COM 173H |
| B | DONNIE BRASCO FED COM 133H |
| C | DONNIE BRASCO FED COM 123H |
| D | DONNIE BRASCO FED COM 423H |
| E | DONNIE BRASCO FED COM 424H |
| F | DONNIE BRASCO FED COM 113H |
| G | DONNIE BRASCO FED COM 114H |
| H | DONNIE BRASCO FED COM 124H |
| I | DONNIE BRASCO FED COM 134H |
| J | DONNIE BRASCO FED COM 174H |
| K | DONNIE BRASCO FED COM 213H |
| L | DONNIE BRASCO FED COM 214H |

NW–SW (STATE)

SW–SW (STATE)

*SECTION 3*
*TOWNSHIP 23 SOUTH*
*RANGE 26 EAST*
*NEW MEXICO PRINCIPAL MERIDIAN*
*EDDY COUNTY, NEW MEXICO*

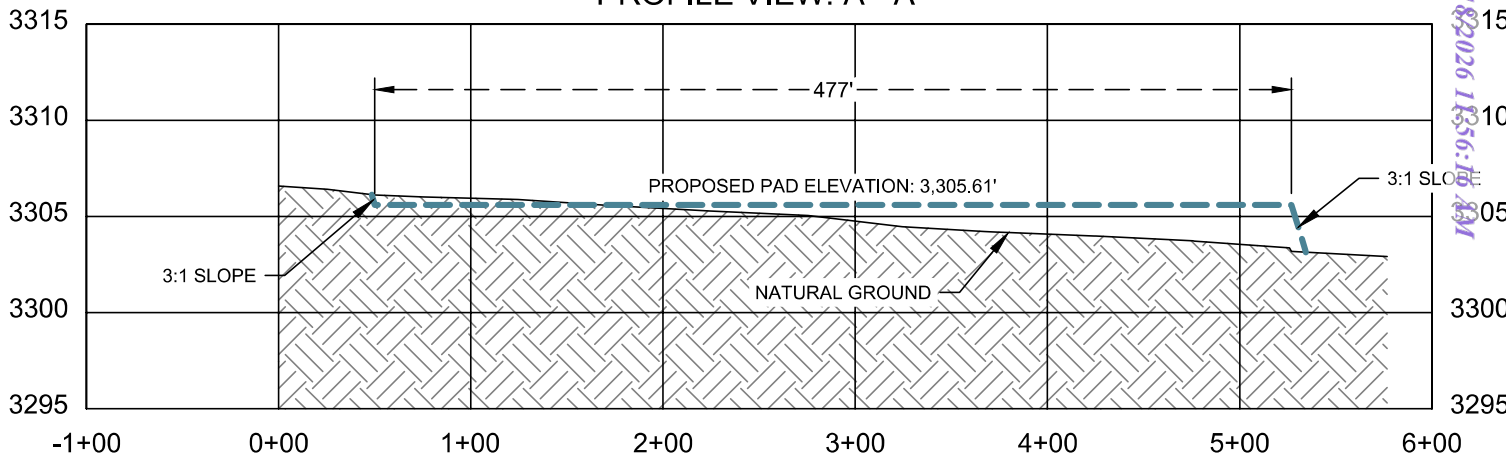
| PROPOSED PAD ELEVATION: 3,305.61' | | |
|---|---|---|
| CUT | FILL | NET |
| 7,117.51 CU. YD. | 7,117.51 CU. YD. | 0 CU. YD. |

Page 120 of 142

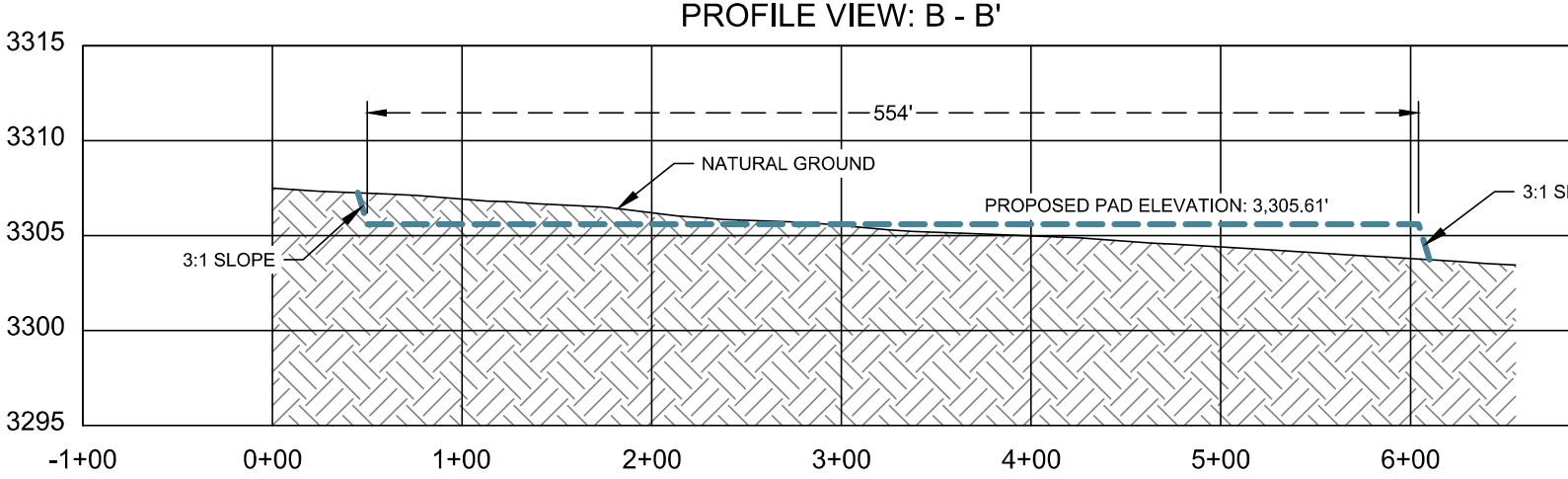
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Received by OCD: 2/18/2026 11:56:18 AM

# EDDY COUNTY, NEW MEXICO

## PROFILE VIEW: A - A'



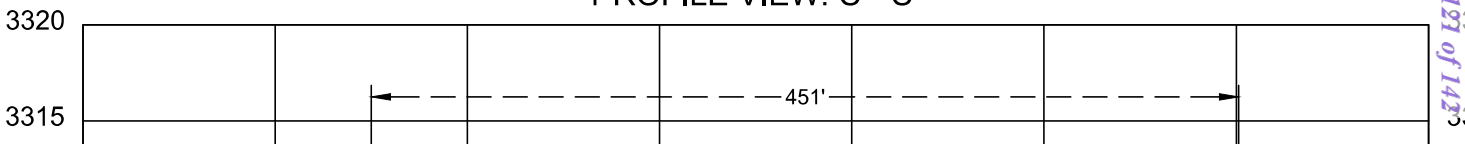

## PROFILE VIEW: B - B'

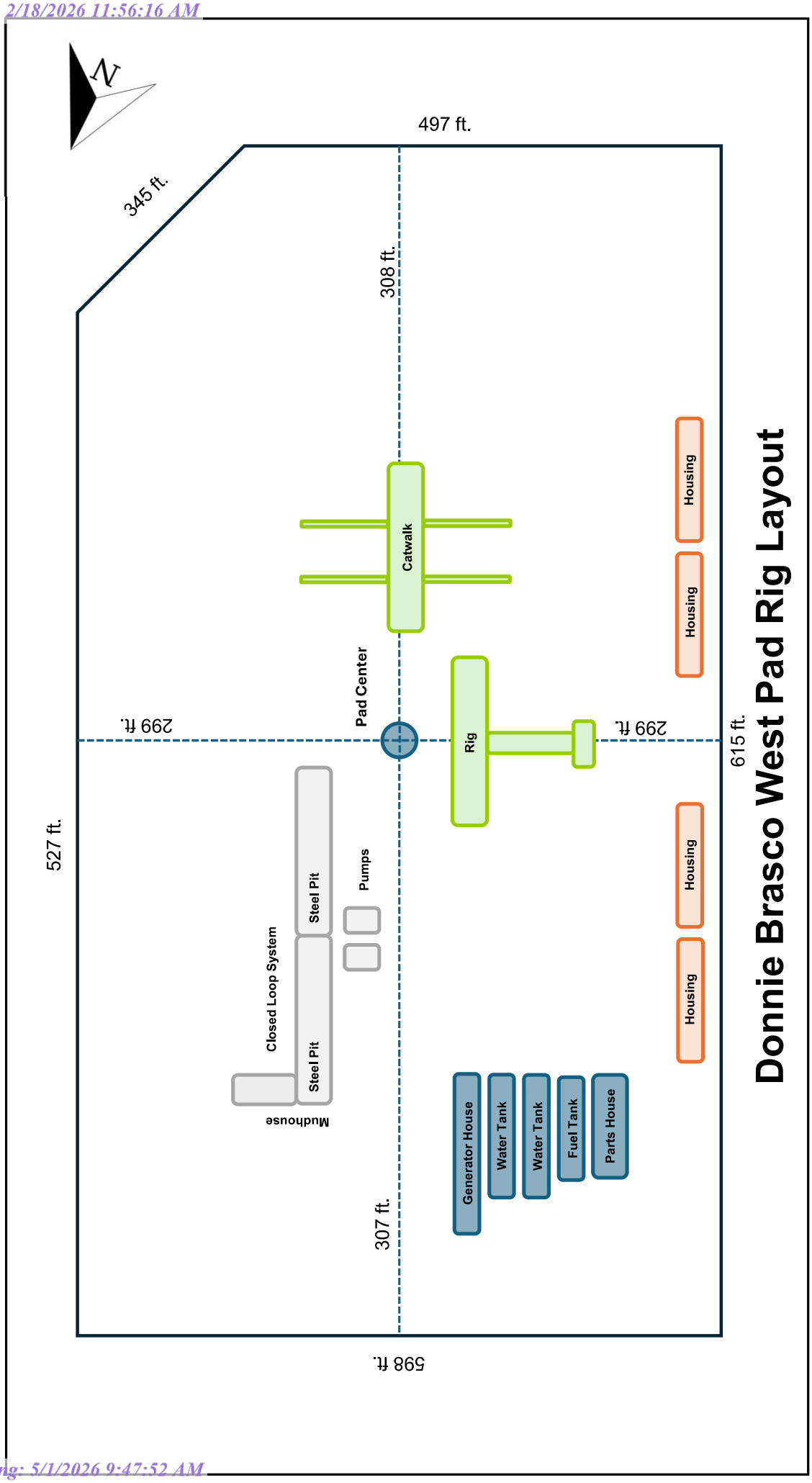



PROFILE

SCALE HORIZ.: 1" = 100'
SCALE VERT.: 1" = 10'

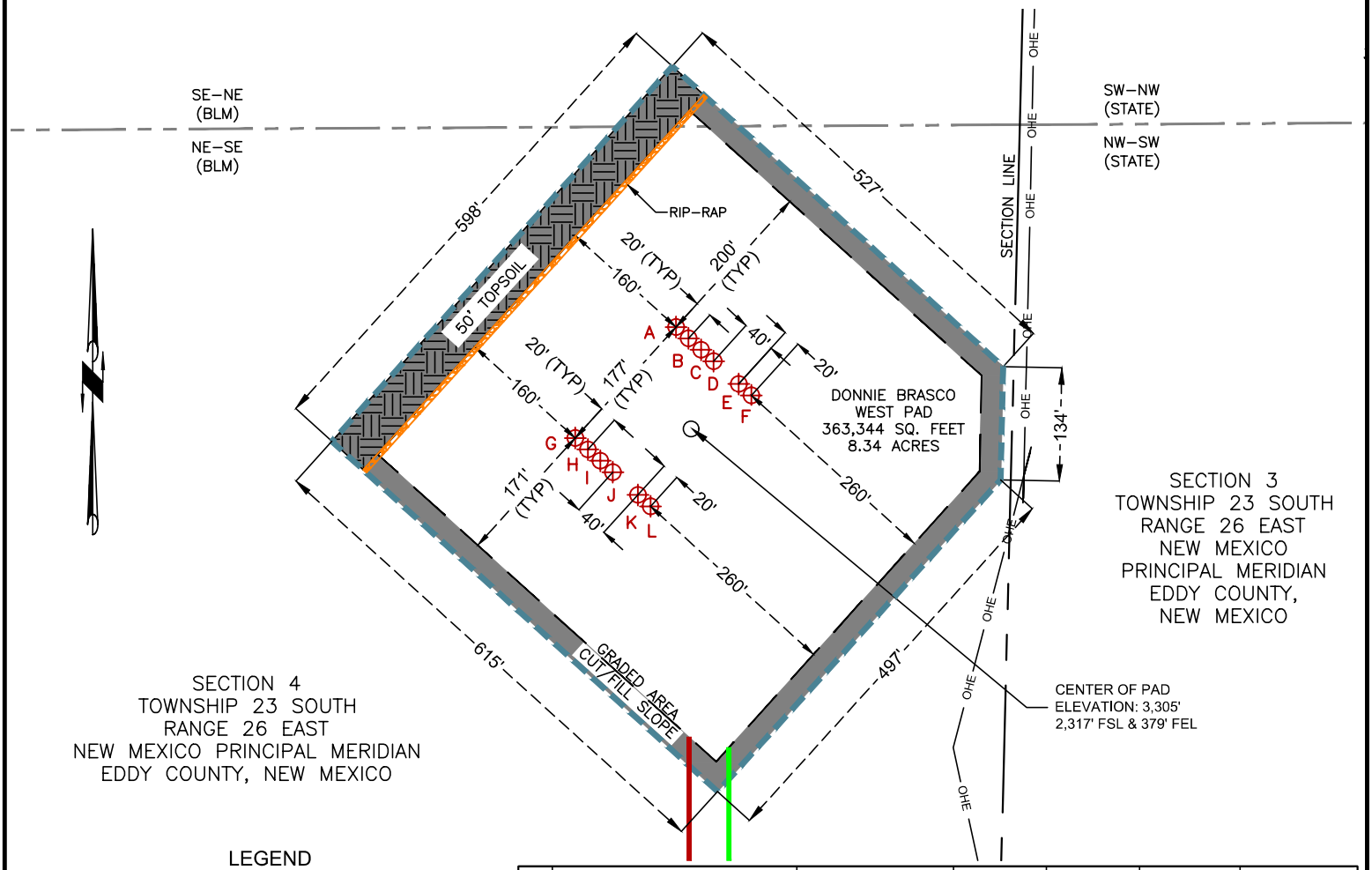
## PROFILE VIEW: C - C'




N
497 ft.
345 ft.
308 ft.
Catwalk
Housing
Housing
Pad Center
299 ft.
Rig
299 ft.
615 ft.
527 ft.
Housing
Housing
Steel Pit
Pumps
Closed Loop System
Steel Pit
Mudhouse
Generator House
Water Tank
Water Tank
Fuel Tank
Parts House
307 ft.
598 ft.
Donnie Brasco West Pad Rig Layout

PERMIAN RESOURCES

# SITE PLAN
# DONNIE BRASCO WEST PAD
SECTION 4, TOWNSHIP 23 SOUTH, RANGE 26 EAST
NEW MEXICO PRINCIPAL MERIDIAN
EDDY COUNTY, NEW MEXICO




SECTION 4
TOWNSHIP 23 SOUTH
RANGE 26 EAST
NEW MEXICO PRINCIPAL MERIDIAN
EDDY COUNTY, NEW MEXICO

SECTION 3
TOWNSHIP 23 SOUTH
RANGE 26 EAST
NEW MEXICO
PRINCIPAL MERIDIAN
EDDY COUNTY,
NEW MEXICO

LEGEND
- SURVEY LINES
- PROPOSED SURFACE SITE
- PROPOSED ACCESS ROAD
- PROPOSED PIPELINE
- OHE — EXISTING ELECTRIC
- EXISTING PIPELINE
- X — EXISTING FENCE
- EDGE OF PAVEMENT
- PROPOSED SURFACE HOLE LOCATION
- CUT/FILL SLOPE
- TOP SOIL
- RIP-RAP

200' 0' 200'

| ID | WELL NAME | DISTANCE | NAD83 X | NAD83 Y | NAD83 LAT. | NAD83 LONG. |
|---|---|---|---|---|---|---|
| A | DONNIE BRASCO FED COM 121H | 2,437' FSL - 400' FEL | 554,458.39' | 484,922.68' | 32.333117° | -104.290852° |
| B | DONNIE BRASCO FED COM 131H | 2,424' FSL - 385' FEL | 554,473.20' | 484,909.23' | 32.333080° | -104.290804° |
| C | DONNIE BRASCO FED COM 122H | 2,410' FSL - 369' FEL | 554,488.01' | 484,895.79' | 32.333043° | -104.290756° |
| D | DONNIE BRASCO FED COM 132H | 2,397' FSL - 354' FEL | 554,502.81' | 484,882.34' | 32.333006° | -104.290708° |
| E | DONNIE BRASCO FED COM 111H | 2,370' FSL - 324' FEL | 554,532.43' | 484,855.45' | 32.332932° | -104.290612° |
| F | DONNIE BRASCO FED COM 112H | 2,356' FSL - 309' FEL | 554,547.23' | 484,842.01' | 32.332895° | -104.290564° |
| G | DONNIE BRASCO FED COM 171H | 2,307' FSL - 515' FEL | 554,339.40' | 484,791.64' | 32.332757° | -104.291237° |
| H | DONNIE BRASCO FED COM 211H | 2,294' FSL - 500' FEL | 554,354.21' | 484,778.20' | 32.332720° | -104.291189° |
| I | DONNIE BRASCO FED COM 172H | 2,280' FSL - 485' FEL | 554,369.02' | 484,764.75' | 32.332683° | -104.291142° |
| J | DONNIE BRASCO FED COM 212H | 2,267' FSL - 470' FEL | 554,383.82' | 484,751.31' | 32.332646° | -104.291094° |
| K | DONNIE BRASCO FED COM 421H | 2,240' FSL - 440' FEL | 554,413.44' | 484,724.42' | 32.332572° | -104.290998° |
| L | DONNIE BRASCO FED COM 422H | 2,226' FSL - 425' FEL | 554,428.24' | 484,710.97' | 32.332535° | -104.290950° |

MARK J. MURRAY
NEW MEXICO
12177
REGISTERED PROFESSIONAL SURVEYOR
Date: 8/14/2025

NOTES:
1.) BEARINGS AND COORDINATES ARE GRID AS DERIVED FROM GPS OBSERVATION AND ARE BASED ON THE STATE PLANE COORDINATES FOR THE NEW MEXICO EAST ZONE 3001-NAD83.
2.) CERTIFICATION IS MADE ONLY TO THE LOCATION OF THIS EASEMENT. IN RELATION TO THE EVIDENCE DURING A FIELD SURVEY, MADE ON THE GROUND, UNDER MY SUPERVISION, AND USING DOCUMENTATION PROVIDED BY THE CLIENT. ONLY UTILITIES/EASEMENTS THAT WERE VISIBLE ON THE DATE OF THIS SURVEY, WITHIN/ADJOINING THIS EASEMENT, HAVE BEEN LOCATED AS SHOWN HEREON OF WHICH I HAVE KNOWLEDGE. THIS CERTIFICATION IS LIMITED TO THOSE PERSONS OR ENTITIES KNOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE, AND MADE FOR THIS TRANSACTION ONLY.

DWG: DONNIE BRASCO_WEST_WP_SITE_PLAN
DRAWING PATH: D:\Coosa Consulting Dropbox\Coosa Consulting\Clients - Projects\Permian Resources\25-012876_Donnie Brasco\Drafting\SITE PLAN

| Drawn: ASH | Date: 08/07/2025 | Job: 25-012876 | Scale: 1" = 200' |
|---|---|---|---|
| Checked: MJM | Date: 08/07/2025 | REVISION NO. 1 | SHEET 1 OF 1 |

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FIRM NO. 10194822

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# EDDY COUNTY, NEW MEXICO

| PROPOSED PAD ELEVATION: 3,305.42' | | |
|---|---|---|
| CUT | FILL | NET |
| 9,103.43 CU. YD. | 9,103.43 CU. YD. | 0 CU. YD. |

SE–NE (BLM)

NE–SE (BLM)

*SECTION 4*
*TOWNSHIP 23 SOUTH*
*RANGE 26 EAST*
*NEW MEXICO PRINCIPAL MERIDIAN*
*EDDY COUNTY, NEW MEXICO*

EXISTING EL.: 3,300.43'
FINISHED EL.: 3,305.42'
FILL: 4.99'

EXISTING EL.: 3,305.09'
FINISHED EL.: 3,305.42'
FILL: 0.33'

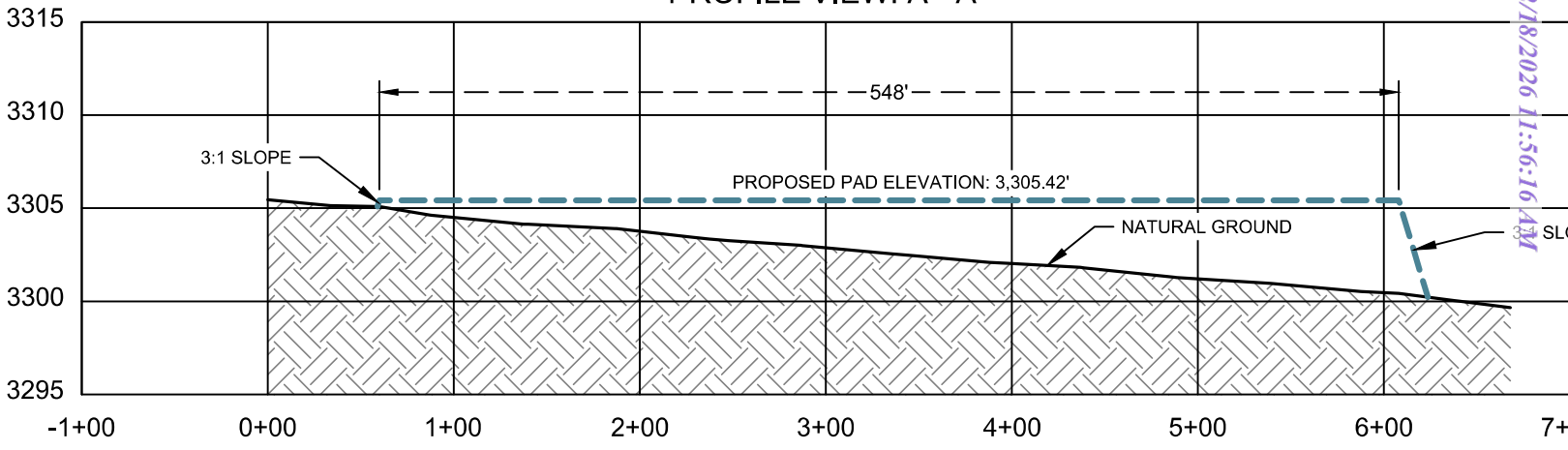
PLAN SCALE 1" = 100'

| ID | WELL NAME |
|---|---|
| A | DONNIE BRASCO FED COM 121H |
| B | DONNIE BRASCO FED COM 131H |
| C | DONNIE BRASCO FED COM 122H |
| D | DONNIE BRASCO FED COM 132H |
| E | DONNIE BRASCO FED COM 111H |
| F | DONNIE BRASCO FED COM 112H |
| G | DONNIE BRASCO FED COM 171H |

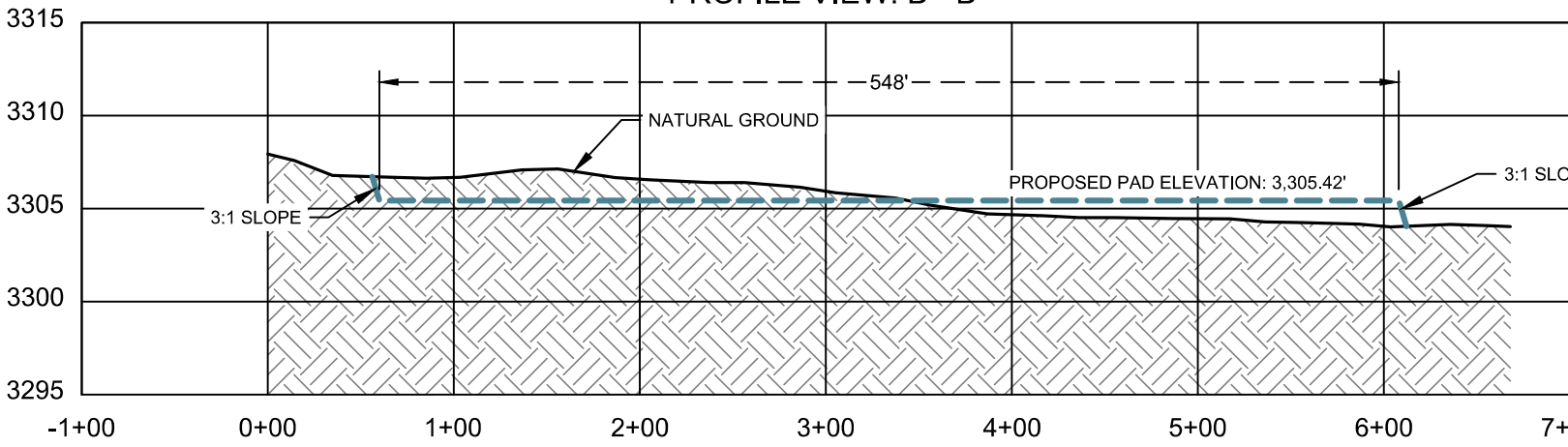
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Received by OCD: 2/18/2026 11:56:16 AM

# EDDY COUNTY, NEW MEXICO

## PROFILE VIEW: A - A'



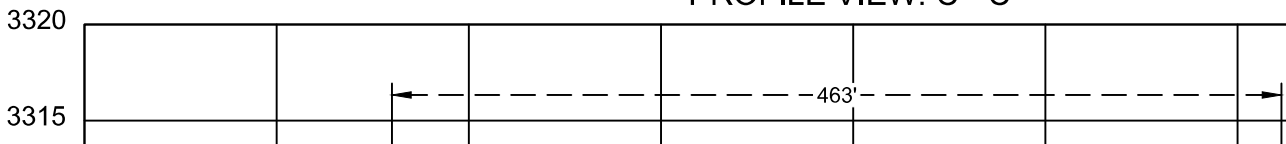

## PROFILE VIEW: B - B'




PROFILE

SCALE HORIZ.: 1" = 100'
SCALE VERT.: 1" = 10'

## PROFILE VIEW: C - C'



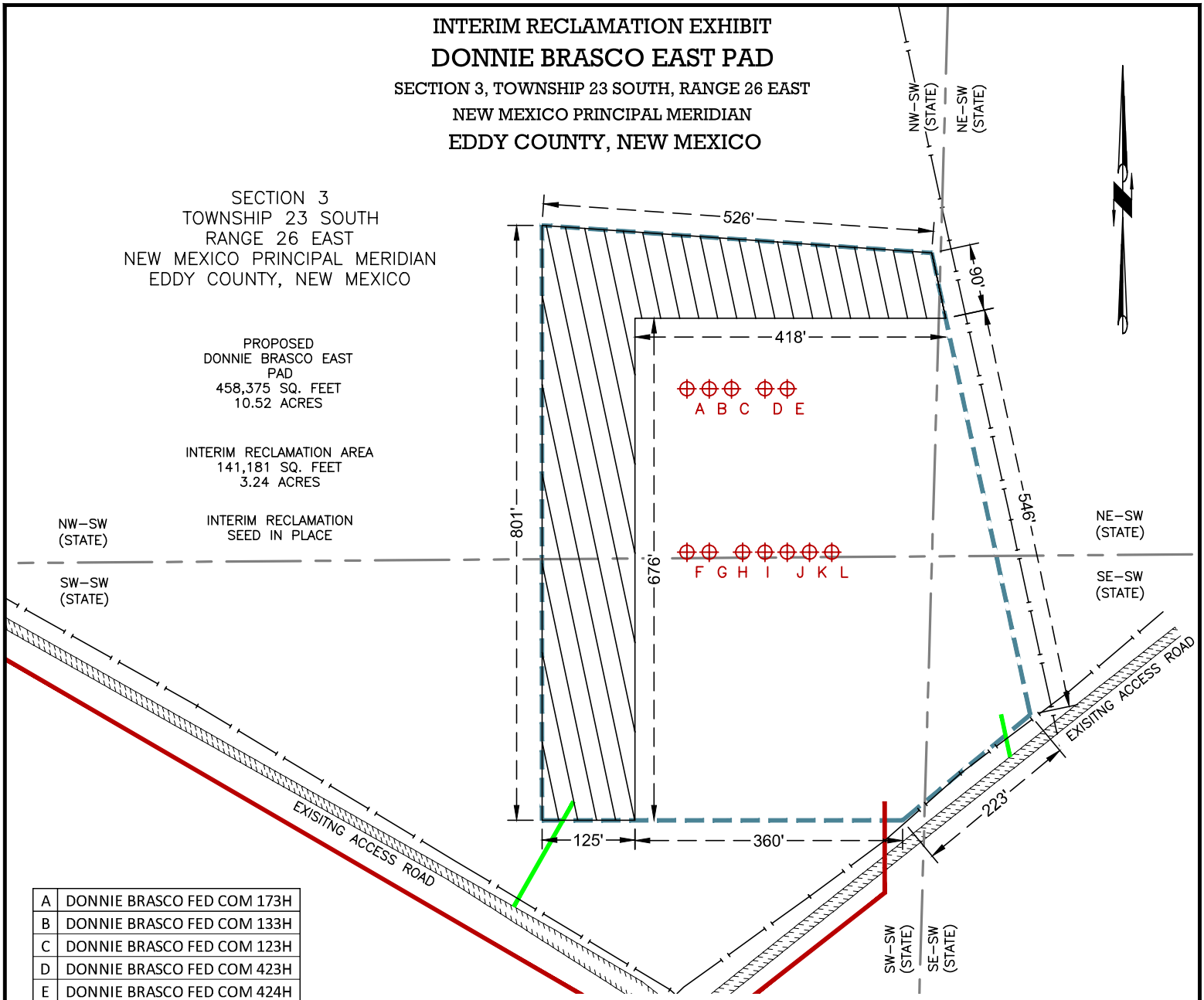
# INTERIM RECLAMATION EXHIBIT
# DONNIE BRASCO EAST PAD
SECTION 3, TOWNSHIP 23 SOUTH, RANGE 26 EAST
NEW MEXICO PRINCIPAL MERIDIAN
EDDY COUNTY, NEW MEXICO

SECTION 3
TOWNSHIP 23 SOUTH
RANGE 26 EAST
NEW MEXICO PRINCIPAL MERIDIAN
EDDY COUNTY, NEW MEXICO

PROPOSED
DONNIE BRASCO EAST
PAD
458,375 SQ. FEET
10.52 ACRES

INTERIM RECLAMATION AREA
141,181 SQ. FEET
3.24 ACRES

INTERIM RECLAMATION
SEED IN PLACE




| | |
|---|---|
| A | DONNIE BRASCO FED COM 173H |
| B | DONNIE BRASCO FED COM 133H |
| C | DONNIE BRASCO FED COM 123H |
| D | DONNIE BRASCO FED COM 423H |
| E | DONNIE BRASCO FED COM 424H |
| F | DONNIE BRASCO FED COM 113H |
| G | DONNIE BRASCO FED COM 114H |
| H | DONNIE BRASCO FED COM 124H |
| I | DONNIE BRASCO FED COM 134H |
| J | DONNIE BRASCO FED COM 174H |
| K | DONNIE BRASCO FED COM 213H |
| L | DONNIE BRASCO FED COM 214H |

LEGEND
- SURVEY LINES
- PROPOSED SURFACE SITE
- PROPOSED ACCESS ROAD
- PROPOSED FLOWLINE
- EXISTING PIPELINE
- EDGE OF ROAD
- PROPOSED SURFACE HOLE
- INTERIM RECLAMATION

200' 0' 200'

PERMIAN RESOURCES

MARK J. MURRAY
NEW MEXICO
12177
REGISTERED PROFESSIONAL SURVEYOR

Date: 11/19/2025

NOTES:
1.) BEARINGS AND COORDINATES ARE GRID AS DERIVED FROM GPS OBSERVATION AND ARE BASED ON THE STATE PLANE COORDINATES FOR THE NEW MEXICO EAST ZONE 3001-NAD83.
2.) CERTIFICATION IS MADE ONLY TO THE LOCATION OF THIS EASEMENT. IN RELATION TO THE EVIDENCE DURING A FIELD SURVEY, MADE ON THE GROUND, UNDER MY SUPERVISION, AND USING DOCUMENTATION PROVIDED BY THE CLIENT. ONLY UTILITIES/EASEMENTS THAT WERE VISIBLE ON THE DATE OF THIS SURVEY, WITHIN/ADJOINING THIS EASEMENT, HAVE BEEN LOCATED AS SHOWN HEREON OF WHICH I HAVE KNOWLEDGE. THIS CERTIFICATION IS LIMITED TO THOSE PERSONS OR ENTITIES KNOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE, AND MADE FOR THIS TRANSACTION ONLY.

DWG: DONNIE BRASCO_EAST_WP_IR

DRAWING PATH: P:\Clients - Projects\Permian Resources\25-012876_Donnie Brasco\Drafting\INTERIM RECLAMATION

| | | | |
|---|---|---|---|
| Drawn: VG | Date: 11/19/2025 | Job: 25-012876 | Scale: 1" = 200' |
| Checked: MJM | Date: 11/19/2025 | REVISION NO. 1 | PAGE 1 OF 1 |

COOSA CONSULTING
PO BOX 1583, MIDLAND, TEXAS 79701
FIRM NO. 10194822

# INTERIM RECLAMATION EXHIBIT

## DONNIE BRASCO WEST PAD

SECTION 4, TOWNSHIP 23 SOUTH, RANGE 26 EAST, NEW MEXICO PRINCIPAL MERIDIAN

EDDY COUNTY, NEW MEXICO

SECTION 4
TOWNSHIP 23 SOUTH
RANGE 26 EAST
NEW MEXICO PRINCIPAL MERIDIAN
EDDY COUNTY, NEW MEXICO

SE–NE (BLM)

NE–SE (BLM)

SW–NW (STATE)

NW–SW (STATE)

SECTION LINE

DONNIE BRASCO WEST PAD
363,344 SQ. FEET
8.34 ACRES

TOP SOIL AREA
29,900 SQ. FEET
0.69 ACRES

INTERIM RECLAMATION AREA
131,775 SQ. FEET
3.03 ACRES

INTERIM RECLAMATION AREA
SEED IN PLACE

598'
50' TOPSOIL
527'
498'
464'
134'
100'
615'
497'

A B C D E F G H I J K L

OHE

SECTION 3
TOWNSHIP 23 SOUTH
RANGE 26 EAST
NEW MEXICO PRINCIPAL MERIDIAN
EDDY COUNTY, NEW MEXICO

| ID | WELL NAME |
|---|---|
| A | DONNIE BRASCO FED COM 121H |
| B | DONNIE BRASCO FED COM 131H |
| C | DONNIE BRASCO FED COM 122H |
| D | DONNIE BRASCO FED COM 132H |
| E | DONNIE BRASCO FED COM 111H |
| F | DONNIE BRASCO FED COM 112H |
| G | DONNIE BRASCO FED COM 171H |
| H | DONNIE BRASCO FED COM 211H |
| I | DONNIE BRASCO FED COM 172H |
| J | DONNIE BRASCO FED COM 212H |
| K | DONNIE BRASCO FED COM 421H |
| L | DONNIE BRASCO FED COM 422H |

LEGEND
- SURVEY LINES
- EXISTING FENCE
- OHE — OHE EXISTING ELECTRIC
- PROPOSED SURFACE SITE
- PROPOSED ACCESS ROAD
- PROPOSED FLOWLINE
- PROPOSED SURFACE HOLE
- PAD CORNER
- TOPSOIL
- INTERIM RECLAMATION

200' 0' 200'

PERMIAN RESOURCES

MARK J. MURRAY
NEW MEXICO
12177
REGISTERED PROFESSIONAL SURVEYOR

Date: 8/14/2025

NOTES:
1.) BEARINGS AND COORDINATES ARE GRID AS DERIVED FROM GPS OBSERVATION AND ARE BASED ON THE STATE PLANE COORDINATES FOR THE NEW MEXICO EAST ZONE 3001-NAD83.
2.) CERTIFICATION IS MADE ONLY TO THE LOCATION OF THIS EASEMENT. IN RELATION TO THE EVIDENCE DURING A FIELD SURVEY, MADE ON THE GROUND, UNDER MY SUPERVISION, AND USING DOCUMENTATION PROVIDED BY THE CLIENT. ONLY UTILITIES/EASEMENTS THAT WERE VISIBLE ON THE DATE OF THIS SURVEY, WITHIN/ADJOINING THIS EASEMENT, HAVE BEEN LOCATED AS SHOWN HEREON OF WHICH I HAVE KNOWLEDGE. THIS CERTIFICATION IS LIMITED TO THOSE PERSONS OR ENTITIES KNOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE, AND MADE FOR THIS TRANSACTION ONLY.

DWG: DONNIE BRASCO_WEST_WP_IR

DRAWING PATH: D:\Coosa Consulting Dropbox\Coosa Consulting\Clients - Projects\Permian Resources\25-012876_Donnie Brasco\Drafting\SITE PLAN

| Drawn: VG | Date: 08/11/2025 | Job: 25-012876 | Scale: 1" = 200' |
|---|---|---|---|
| Checked: MJM | Date: 08/11/2025 | REVISION NO. 0 | SHEET 1 OF 1 |

COOSA CONSULTING
PO BOX 1583, MIDLAND, TEXAS 79701
FIRM NO. 10194822

## Well Site Locations

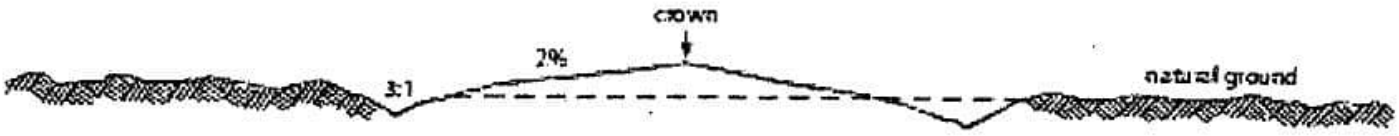
The results of the Donnie Brasco Fed Com Development Program will develop economic quantities of oil and gas in the 'West Eddy' area with multiple primary formations targeted. Well locations are determined based on cross-section variations and details. Locations will be selected to minimize the likelihood of encountering faults and/or drilling hazards while still targeting suitably productive zones.

If drilling results in an unproductive well, the well will be plugged and abandoned as soon as practical after the conclusion of production testing. Productive wells may be shut-in temporarily for BLM authorization for production activities and facilities.

## Surface Use Plan

1. **Existing Roads**
   A. From the intersection of US-180 and CR-707 in Carlsbad, New Mexico; move Southwest on US-180 approximately 1.5 miles. Turn right onto CR-765 and move West approximately 1925ft. Turn left onto Gillock road and move Southwest approximately .63 miles then turn left onto access road and move South, then West approximately .07 miles. Turn right and move North approximately .82 miles, turn left and move Northwest approximately 1563ft to the proposed pad corner. Transportation maps identifying existing roads that will be used to access the project area are included from Coosa Surveying marked as, 'Donnie Brasco Fed Com Existing Access Map'.
   B. Transportation Plan identifying existing roads that will be used to access the project area is included from Coosa Surveying marked as, 'Donnie Brasco Fed Com Existing Access Map.' All equipment and vehicles will be confined to the routes shown on the 'Donnie Brasco Fed Com Existing Access Map' as provided by Coosa Surveying. Maintenance of the access roads will continue until abandonment and reclamation of the well pads is completed.

2. **New or Upgraded Access Roads**
   A. **New Roads**. There is a total of 789.23ft or .14 miles (.54 acres) of proposed and staked access roads for the Donnie Brasco Fed Com lease area to access two (2) well pads and two (2) central tank batteries.
   B. **Well Pads**. The well pads selected for development will determine which existing roads will be upgraded and which new roads will be built. The lease flow diagram shows the location of proposed roads that will need to be constructed to access the well pads.
   C. **Anticipated Traffic**. After well completion, travel to each well site will included one lease operator truck and two oil trucks per day until the Central Tank Battery are completed. Upon completion of the Central Tank Battery, one lease operator truck will continue to travel to each well site to monitor the working order of the wells and to check well equipment for proper operation. Two oil trucks will continue to travel to the Central Tank Battery only for oil hauling. Additional traffic will include one maintenance truck periodically throughout the year for pad upkeep and weed removal. Well service trips will include only the traffic necessary to work on the wells or provide chemical treatments periodically and as needed throughout the year.
   D. **Routing**. All equipment and vehicles will be confined to the travel routes laid out in the Donnie Brasco Fed Com Existing Access Map and proposed new roads provided by Coosa Surveying unless otherwise approved by the BLM and applied for by Permian Resource Resources Operating, LLC.
   E. **Road Dimensions**. The maximum width of the driving surface of new roads will be 24 feet. The roads will be crowned and ditched with a 2% slope from the tip of the crown to the edge of the driving surface. The ditches will be 1 foot deep with 3:1 slopes. The driving surface will be made of 6" rolled and compacted caliche.




**Level Ground Section**

F. **Surface Material**. Surface material will be native caliche. The average grade of all roads will be approximately 3%.
G. **Fence Cuts**: No.
H. **Fences**: No.
I. **Cattle Guards**: No.
J. **Turnouts**: No.
K. **Culverts**: No.
L. **Cuts and Fills**: Not significant.
M. **Topsoil**. Approximately 6 inches of topsoil (root zone) will be stripped from the proposed access road prior to any further construction activity. The topsoil that was stripped will be spread along the edge of the road and within the ditch. The topsoil will be seeded with the proper seed mix designated by the BLM.
N. **Maintenance**. The access road will be constructed and maintained as necessary to prevent soil erosion and accommodate all-weather traffic. The road will be crowned and ditched with water turnouts installed as necessary to provide for proper drainage along with access road route.
O. **Drainage**. The access road and associated drainage structures will be constructed and maintained in accordance with road guidelines contained in the joint BLM/USFS publication: Surface Operating Standards for Oil and Gas Exploration and Development, The Gold Book, Fourth Edition and/or BLM Manual Section 9113 concerning road construction standards on projects subject to federal jurisdiction.

**3. Location of Existing Wells**

A. See attached Existing Wells map.

**4. Ancillary Facilities**

A. **Ancillary Facilities**. No off-pad ancillary facilities are planned during the exploration phase including, but not limited to: campsites, airstrips or staging areas.

**5. Location of Proposed Production Facilities**

A. **Production Facilities**. Two pads were staked for construction and use as Central Tank Batteries (CTB). Option 1: Donnie B Fed CTB 1 is approximately 555'x546' (6.94 Acres) accounting for cut and fill/slopes and topsoil stockpile, located in the NWNW Section 10-23S-26E NMPM, Eddy County, New Mexico. Centerpoint: 514'FWL & 1102'FNL. Option 2: Donnie B Fed CTB 2 is approximately 858'x530' (10.19 Acres) accounting for cut and fill/slopes and topsoil stockpile, located in the SWNW Section 10-23S-26E NMPM, Eddy County, New Mexico. Centerpoint: 496'FWL & 2271'FNL. Plats of the proposed facilities are attached. A 3160-5 sundry notification will be submitted after construction with a site-security diagram and layout of the facility with associated equipment.
B. **Buried & Surface Flowlines**. In the event the Donnie Brasco Fed Com wells are found productive, forty-eight (48) 22in. or less buried composite flexpipe or steel flowlines with a maximum safety pressure rating of 1400psi (operating pressure: 750 psi) for transport of oil, gas, frac water, gas lift, fuel gas, and produced water are requested to one of the Donnie B CTB's. If Permian Resources Operating LLC decides to run surface lines, twenty-four (24) 4in. or less composite flexpipe or steel

flowlines with a max. safety psi rating of 750 (op. psi: 125psi) for transport of oil, gas and produced water will be required to the Donnie B CTB's. Total Flowline Length to Either Option 1 or Option 2 CTB: 14,107.06ft long by 30ft wide (9.71 acres). Total includes 30' of temporary workspace for flowline installation.

C. **Midstream Tie-In**. A midstream tie-in is not requested with this project. In the event that a midstream tie-in is necessary, Permian Resources Operating, LLC will file application with the appropriate authorities to construct via right-of-way.

D. **Disposal Facilities**. Produced water will be hauled from location to a commercial disposal facility as needed. Once wells are drilled and completed, a 3160-5 sundry notification will be submitted to BLM in compliance with Onshore Order 7.

E. **Flare**. A flare is not requested with this project. The flare will be located on the proposed CTB and submitted on the subsequent facility diagram.

F. **Aboveground Structures**. All permanent (on site six months or longer) aboveground structures constructed or installed on location and not subject to safety requirements will be painted earth-tone colors such as 'shale green' that reduce the visual impacts of the built environment.

G. **Containment Berms**. Containment berms will be constructed completely around any production facilities designed to hold fluids. The containment berms will be constructed of compacted subsoil, be sufficiently impervious, hold 1.5 times the capacity of the largest tank and away from cut or fill areas.

H. **Electrical**. Permian Resources does not need nor is applying for electrical. In the event that an electrical line is identified and determined to be necessary, Permian Resources will submit the appropriate documentation to the BLM utilizing either SF-299 or 3160-5 to be determined by future route.

**6. Location and Types of Water Supply**

The well will be drilled using a combination of water mud systems as outlined in the drilling program. The water will be obtained from a 3rd party vendor and hauled to the proposed location by transport truck using the existing and proposed roads depicted in the attached exhibits. No water well will be drilled on the location.

Water for drilling, completion and dust control will be purchased from Boss Hog Pit located:

Water for drilling, completion and dust control will be supplied by Boss Hog Pit located in the SWNE-Section 28-T23S-R26E to Permian Resources Operating, LLC in Eddy County, NM. If the commercial supplier is unable to provide water for drilling, completion, and dust control, Permian Resources will utilize the George Harvick water station located in the SESE-Section 29-T23S-R26E in Eddy County, NM.

Anticipated water usage for drilling includes an estimated 50,000 barrels (bbls) of water to drill a horizontal well in a combination of fresh water and brine as detailed in the mud program in the drilling plans. These volumes are calculated for ~1.5 bbls per foot of hole drilled with excess to accommodate any lost circulation or wash out that may occur. Actual water volumes used during operations will depend on the depth of the well, length of horizontal sections, and the losses that may occur during the operation.

Temporary water flowlines will be permitted via ROW approval letter and proper grants as-needed based on drilling and completion schedules. Well completion is expected to require approximately 1,950,000 bbls of water per horizontal well. Actual water volumes used during operations will depend on the depth of the well and length of horizontal sections.

**7. Construction Activities**

A. Construction, reclamation, and/or routine maintenance will not be conducted during periods when the soil conditions for construction could lead to impacts to the surrounding environment, or when watershed damage is likely to occur as a result of these activities.

B. Any construction material that may be required for surfacing of the drill pad and access road will be from a contractor having a permitted source of materials within the general area. No construction materials will be removed from federal lands without prior approval from the appropriate surface management agency. All roads and well pads will be constructed of 6" rolled and compacted caliche.

C. Anticipated Caliche Location:
   a. Pit 1: SENE-Section 18-T23S-R26E
   b. Pit 2: SWSW-Sec 5-T23S-R26E

**8. Methods for Handling Waste**

- **Cuttings**. The well will be drilled utilizing a closed-loop mud system. Drill cuttings will be held in roll-off style mud boxes and taken to a New Mexico Oil Conservation Division (NMOCD) approved disposal site.
- **Drilling Fluids**. These will be contained in steel mud pits and then taken to a NMOCD approved commercial disposal facility.
- **Produced Fluids**. Water produced from the well during completion will be held temporarily in steel tanks and then taken to a NMOCD approved commercial disposal facility. Oil produced during operations will be stored in tanks until sold.
- **Sewage**. Portable, self-contained toilets will be provided for human waste disposal. Upon completion of drilling and completion activities, or as required, the toilet holding tanks will be pumped and the contents thereof disposed of in an approved sewage disposal facility. All state and local laws and regulations pertaining to the disposal of human and solid waste will be complied with. This equipment will be properly maintained during the drilling and completion operations and will be removed when all operations are complete.
- **Garbage and Other Waste Materials.** All garbage, junk and non-flammable waste materials will be contained in a self-contained, portable dumpster or trash cage, to prevent scattering and will be removed and deposited in an approved sanitary landfill. Immediately after drilling all debris and other waste materials on and around the well location not contained in the trash cage will be cleaned up and removed from the location. No potentially adverse materials or substances will be left on the location.
- **Debris**. Immediately after removal of the drilling rig, all debris and other waste materials not contained in the trash cage will be cleaned and removed from the well location. No potential adverse materials or substances will be left on location.
- **Hazardous Materials.**
   i. All drilling wastes identified as hazardous substances by the Comprehensive Environmental Response Compensation Liability Act (CERCLA) removed from the location, and not reused at another drilling location, will be disposed of at a hazardous waste facility approved by the U.S. Environmental Protection Agency (EPA).
   ii. Permian Resources Operating, LLC and its contractors will comply with all applicable Federal, State and local laws and regulations, existing or hereafter enacted/promulgated, with regard to any hazardous material, as defined in this paragraph, that will be used, produced, transported or stored on the oil and gas lease. "Hazardous material" means any substance, pollutant or contaminant that is listed as hazardous under the CERCLA of 1980, as amended, 42 U.S.C 9601 et seq., and its regulation. The definition of hazardous substances under CERLCA includes any "hazardous waste" as defined in the RCRA of 1976, as amended, 42 U.S.C. 6901 et seq., and its regulations. The term hazardous material also includes any nuclear or nuclear by-product material as defined by the Atomic Energy Act of 1954, as amended, 42 U.C.S. 2011 et seq. The term does not include petroleum, including crude oil or any fraction thereof that is not otherwise specifically listed or designated as a hazardous substance under CERCLA Section 101 (14) U.S.C. 9601 (14) nor does the term include natural gas.
   iii. No hazardous substances or wastes will be stored on the location after completion of the well.
   iv. Chemicals brought to location will be on the Toxic Substance Control Act (TSCA) approved inventory list.
   v. All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in Notice to Lessees (NTL) 3A will be reported to the BLM Carlsbad Field Office. Major events will be reported

verbally within 24 hours, followed by a written report within 15 days. “Other than Major Events” will be reported in writing within 15 days.

**9. Well Site Layout**

A. **Rig Plat Diagrams**: There are two (2) multi-well pads requested for the Donnie Brasco Fed Com anticipated project. The proposed pads will allow enough space for cuts and fills, topsoil storage, and storm water control and sizes are approximations based on these needs. Interim reclamation of these pads is anticipated after the drilling and completion of all wells on the pad. The well site layout for all pads are attached.

1. West Pad: 598’x615’ (8.34 Acres), Topsoil: 50’ Northeast
   Centerpoint: 2317’FSL & 379’FEL, NESE-Sec.4-T23S-R26E
2. East Pad: ~801’x526’ (10.52 Acres), Topsoil: 50’ Northeast
   Centerpoint: 1364’FSL & 1110’FWL, NWSW, NESW, SWSW, SESW-Sec.3-T23S-R26E

B. **Closed-Loop System**: There will be no reserve pit as each well will be drilled utilizing a closed loop mud system. The closed loop system will meet the NMOCD requirements 19.15.17.

C. **V-Door Orientation**: The pad was staked with a West v-door orientation in accordance to the staked section.

D. All equipment and vehicles will be confined to the approved disturbed areas of this APD (i.e., access road, well pad and topsoil storage areas).

**10. Plans for Surface Reclamation:**

Permian Resources Operating, LLC requests a variance from interim reclamation until all drilling and completion activities have been finished on the pads as these are multi-well pads where drilling and completion will be consecutive with the other wells on the pad. Once activities are completed, Permian Resources Operating, LLC. will coordinate interim reclamation with the appropriate BLM personnel or use the following plan:

*Non-Commercial Well (Not Productive), Interim & Final Reclamation:*

*Definition:* Reclamation includes disturbed areas where the original landform and a natural vegetative community will be restored and it is anticipated the site will not be disturbed for future development.

*Reclamation Standards*:

The portions of the pad not essential to production facilities or space required for workover operations will be reclaimed and seeded as per BLM requirements for interim reclamation. (See Interim Reclamation plats attached).

All equipment and trash will be removed, and the surfacing material will be removed from the well pad and road and transported to the original caliche pit or used to maintain other roads. The location will then be ripped and seeded.

The original stock piled topsoil will be spread over the areas being reclaimed and the original landform will be restored for all disturbed areas including well pads, production facilities, roads, pipelines, and utility corridors as close as possible to the original topography. The location will then be ripped and seeded.

A self-sustaining, vigorous, diverse, native (or otherwise approved) plant community will be established on the site with a density sufficient to control erosion and invasion by non-native plants and to re-establish wildlife habitat or forage production. At a minimum, the established plant community will consist of species included in the seed mix and/or desirable species occurring in the surrounding natural vegetation.

Erosion features are equal to or less than surrounding area and erosion control is sufficient so that water naturally infiltrates into the soil and gullying, headcutting, slumping, and deep or excessive rills (greater than 3 inches) are not observed.

The site will be free of State or County listed noxious weeds, oil field debris and equipment, and contaminated soil. Invasive and non-native noxious weeds will be controlled.

Seeding:

- Seedbed Preparation: Initial seedbed preparation will consist of recontouring to the appropriate interim or final reclamation standard. All compacted areas to be seeded will be ripped to a minimum depth of 18 inches with a minimum furrow spacing of 2 feet, followed by recontouring the surface and then evenly spreading the stockpiled topsoil. Prior to seeding, the seedbed will be scarified to a depth of no less than 4-6 inches. If the site is to be broadcast seeded, the surface will be left rough enough to trap seed and snow, control erosion, and increase water infiltration.
- If broadcast seeding is to be used and is delayed, final seedbed preparation will consist of contour cultivating to a depth of 4-6 inches within 24 hours prior to seeding, dozer tracking, or other imprinting in order to break the soil crust and create seed germination micro-sites.
- Seed Application. Seeding will be conducted no more than two weeks following completion of final seedbed preparation. A certified weed-free seed mix designed by the BLM to meet reclamation standards will be used.
- If the site is harrowed or dragged, seed will be covered by no more than 0.25 inch of soil.

**11. Surface Ownership**

A. 90% of the project is under the administrative jurisdiction of the New Mexico State Land Office. 10% of the project is under the administrative jurisdiction of the Bureau of Land Management.
B. The surface is multiple-use with the primary uses of the region for grazing and for the production of oil and gas.

**12. Other Information**

- **Cultural Resources – Archaeology**: A Class III Cultural Resources Examination has been completed and the results have been forwarded to the BLM Office.

- **Dwellings and Structures**. There are no dwellings or structures within 2 miles of this location.

Surveying

- **Well Sites**. Well pad locations have been staked. Surveys of the proposed access roads and well pad locations have been completed by Coosa Surveying, a registered professional land surveyor.

Soils and Vegetation

- **Environmental Setting**. Soils are classified as Reeves soils. These soils are associated with the loamy ecological site which typically supports black and blue grama and tobosa grasslands with an even distribution of yucca, mesquite, American tarbush, cholla, and creosote.

- **Traffic**. No truck traffic will be operated during periods or in areas of saturated ground when surface rutting could occur. The access road will be constructed and maintained as necessary to prevent soil erosion and accommodate all-weather traffic. The road will be crowned and ditched with water turnouts installed as necessary to provide for proper drainage along the access road route.

- **Water**. There is no permanent or live water in the immediate or within the project area.

**13. Bond Coverage**

Bond Number: NMB001841

Onsite: March 10, 2025 with Jeff Robertson (BLM Natural Resource Specialist). Also in attendance were a BLM Hydrologist; James Scott, Construction Superintendent Permian Resources; James Ornelas, Permian Resources Surface Landman; Suzanne Mills; Permian Resources Well Planner; Coosa Consulting.

| Enter the acres for the outer limit of the outer limit to be disturbed. | Enter the acres not needed for active production support. | Enter the number of disturbed acres remaining after interim reclamation. |
|---|---|---|
| **Well Pad Proposed Disturbance (acres) *** | **Well Pad Interim Reclamation (acres) *** | **Well Pad Long Term Disturbance (acres) *** |
| 18.86 | 6.27 | 12.59 |
| **Road Proposed Disturbance (acres) *** | **Road Interim Reclamation (acres) *** | **Road Long Term Disturbance (acres) *** |
| .54 | 0 | .54 |
| **Powerline Proposed Disturbance (acres) *** | **Powerline Interim Reclamation (acres) *** | **Powerline Long Term Disturbance Width (feet) *** |
| 0 | 0 | 0 |
| **Pipeline Proposed Disturbance (acres)** | **Pipeline Interim Reclamation (acres) *** | **Pipeline Long Term Disturbance (acres) *** |
| 9.71 | 9.71 | 0 |
| **Other Proposed Disturbance (acres) *** | **Other Interim Reclamation (acres) *** | **Other Long Term Disturbance (acres) *** |
| 17.13 | 0 | 17.13 |
| **Total Proposed Disturbance (acres)** | **Total Interim Reclamation (acres)** | **Total Long Term Disturbance (acres) *** |
| 46.239999999999995 | 15.98 | 30.259999999999998 |

Entries must be included for each well on a multiple well pad for proposed, interim, and long term disturbance for each well. Long term disturbance is the amount of acres disturbed remaining after interim reclamation.

**DONNIE BRASCO FED COM DEVELOPMENT**
Permian Resources Operating, LLC
08/14/2025

**West Pad**

DONNIE BRASCO FED COM 171H:
Surface Hole Location: 515 feet FEL and 2,307 feet FSL, Lot I, Section 4, T.23S., R.26E.
Bottom Hole Location: 100 feet FEL and 660 feet FNL, Lot 1, Section 2, T.23S., R.26E.

DONNIE BRASCO FED COM 211H:
Surface Hole Location: 500 feet FEL and 2,294 feet FSL, Lot I, Section 4, T.23S., R.26E.
Bottom Hole Location: 100 feet FEL and 990 feet FNL, Lot 1, Section 2, T.23S., R.26E.

DONNIE BRASCO FED COM 172H:
Surface Hole Location: 485 feet FEL and 2,280 feet FSL, Lot I, Section 4, T.23S., R.26E.
Bottom Hole Location: 100 feet FEL and 1,980 feet FNL, Lot H, Section 2, T.23S., R.26E.

DONNIE BRASCO FED COM 212H:
Surface Hole Location: 470 feet FEL and 2,267 feet FSL, Lot I, Section 4, T.23S., R.26E.
Bottom Hole Location: 100 feet FEL and 2,349 feet FNL, Lot H, Section 2, T.23S., R.26E.

DONNIE BRASCO FED COM 421H:
Surface Hole Location: 440 feet FEL and 2,240 feet FSL, Lot I, Section 4, T.23S., R.26E.
Bottom Hole Location: 100 feet FEL and 660 feet FNL, Lot 1, Section 2, T.23S., R.26E.

DONNIE BRASCO FED COM 422H:
Surface Hole Location: 425 feet FEL and 2,226 feet FSL, Lot I, Section 4, T.23S., R.26E.
Bottom Hole Location: 100 feet FEL and 1,980 feet FNL, Lot H, Section 2, T.23S., R.26E.

DONNIE BRASCO FED COM 121H:
Surface Hole Location: 400 feet FEL and 2,437 feet FSL, Lot I, Section 4, T.23S., R.26E.
Bottom Hole Location: 100 feet FEL and 330 feet FNL, Lot 1, Section 2, T.23S., R.26E.

DONNIE BRASCO FED COM 131H:
Surface Hole Location: 385 feet FEL and 2,424 feet FSL, Lot I, Section 4, T.23S., R.26E.
Bottom Hole Location: 100 feet FEL and 330 feet FNL, Lot 1, Section 2, T.23S., R.26E.

DONNIE BRASCO FED COM 122H:
Surface Hole Location: 369 feet FEL and 2,410 feet FSL, Lot I, Section 4, T.23S., R.26E.
Bottom Hole Location: 100 feet FEL and 1,650 feet FNL, Lot H, Section 2, T.23S., R.26E.

DONNIE BRASCO FED COM 132H:
Surface Hole Location: 354 feet FEL and 2,397 feet FSL, Lot I, Section 4, T.23S., R.26E.
Bottom Hole Location: 100 feet FEL and 1,650 feet FNL, Lot H, Section 2, T.23S., R.26E.

DONNIE BRASCO FED COM 111H:
Surface Hole Location: 324 feet FEL and 2,370 feet FSL, Lot I, Section 4, T.23S., R.26E.
Bottom Hole Location: 100 feet FEL and 990 feet FNL, Lot 1, Section 2, T.23S., R.26E.

DONNIE BRASCO FED COM 112H:
Surface Hole Location: 309 feet FEL and 2,356 feet FSL, Lot I, Section 4, T.23S., R.26E.
Bottom Hole Location: 100 feet FEL and 2,310 feet FNL, Lot H, Section 2, T.23S., R.26E.

Received by OCD: 2/18/2026 11:36:16 AM

AFMSS

U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

# PWD Data Report

02/18/2026

**APD ID:** 10400109079 **Submission Date:** 12/05/2025

**Operator Name:** PERMIAN RESOURCES OPERATING LLC

**Well Name:** DONNIE BRASCO FED COM **Well Number:** 173H

**Well Type:** CONVENTIONAL GAS WELL **Well Work Type:** Drill

## Section 1 - General

**Would you like to address long-term produced water disposal?** NO

## Section 2 - Lined

**Would you like to utilize Lined Pit PWD options?** N

**Produced Water Disposal (PWD) Location:**

**PWD surface owner:** **PWD disturbance (acres):**

**Other PWD Surface Owner Description:**

**Lined pit PWD on or off channel:**

**Lined pit PWD discharge volume (bbl/day):**

**Lined pit**

**Pit liner description:**

**Pit liner manufacturers**

**Precipitated solids disposal:**

**Decribe precipitated solids disposal:**

**Precipitated solids disposal**

**Lined pit precipitated solids disposal schedule:**

**Lined pit precipitated solids disposal schedule**

**Lined pit reclamation description:**

**Lined pit reclamation**

Released to Imaging: 5/1/2026 9:47:52 AM

**Leak detection system description:**

**Operator Name:** PERMIAN RESOURCES OPERATING LLC

**Well Name:** DONNIE BRASCO FED COM **Well Number:** 173H

**Lined pit Monitor description:**

**Lined pit Monitor**

**Lined pit: do you have a reclamation bond for the pit?**

**Is the reclamation bond a rider under the BLM bond?**

**Lined pit bond number:**

**Lined pit bond amount:**

**Additional bond information**

## Section 3 - Unlined

**Would you like to utilize Unlined Pit PWD options?** N

**Produced Water Disposal (PWD) Location:**

**PWD disturbance (acres):** **PWD surface owner:**

**Other PWD Surface Owner Description:**

**Unlined pit PWD on or off channel:**

**Unlined pit PWD discharge volume (bbl/day):**

**Unlined pit**

**Precipitated solids disposal:**

**Decribe precipitated solids disposal:**

**Precipitated solids disposal**

**Unlined pit precipitated solids disposal schedule:**

**Unlined pit precipitated solids disposal schedule**

**Unlined pit reclamation description:**

**Unlined pit reclamation**

**Unlined pit Monitor description:**

**Unlined pit Monitor**

**Do you propose to put the produced water to beneficial use?**

**Beneficial use user**

**Estimated depth of the shallowest aquifer (feet):**

**Precipitated Solids Permit**

**Does the produced water have an annual average Total Dissolved Solids (TDS) concentration equal to or less than that of the existing water to be protected?**

**TDS lab results:**

**Geologic and hydrologic**

**Operator Name:** PERMIAN RESOURCES OPERATING LLC

**Well Name:** DONNIE BRASCO FED COM **Well Number:** 173H

**State**

**Unlined Produced Water Pit Estimated**

**Unlined pit: do you have a reclamation bond for the pit?**

**Is the reclamation bond a rider under the BLM bond?**

**Unlined pit bond number:**

**Unlined pit bond amount:**

**Additional bond information**

## Section 4 -

**Would you like to utilize Injection PWD options?** N

**Produced Water Disposal (PWD) Location:**

**PWD surface owner:** **PWD disturbance (acres):**

**Other PWD Surface Owner Description:**

**Injection PWD discharge volume (bbl/day):**

**Injection well mineral owner:**

**Injection well type:**

**Injection well number:** **Injection well name:**

**Assigned injection well API number?** **Injection well API number:**

**Injection well new surface disturbance (acres):**

**Minerals protection information:**

**Mineral protection**

**Underground Injection Control (UIC) Permit?**

**UIC Permit**

## Section 5 - Surface

**Would you like to utilize Surface Discharge PWD options?** N

**Produced Water Disposal (PWD) Location:**

**PWD surface owner:** **PWD disturbance (acres):**

**Other PWD Surface Owner Description :**

**Surface discharge PWD discharge volume (bbl/day):**

**Surface Discharge NPDES Permit?**

**Surface Discharge NPDES Permit attachment:**

**Surface Discharge site facilities information:**

**Surface discharge site facilities map:**

**Operator Name:** PERMIAN RESOURCES OPERATING LLC

**Well Name:** DONNIE BRASCO FED COM **Well Number:** 173H

## Section 6 -

**Would you like to utilize Other PWD options?** N

**Produced Water Disposal (PWD) Location:**

**PWD surface owner:**

**PWD disturbance (acres):**

**PWD Surface Owner Description:**

**Other PWD discharge volume (bbl/day):**

**Other PWD type description:**

**Other PWD type**

**Have other regulatory requirements been met?**

**Other regulatory requirements**

AFMSS

U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

# Bond Info Data

02/18/2026

**APD ID:** 10400109079 **Submission Date:** 12/05/2025

**Operator Name:** PERMIAN RESOURCES OPERATING LLC

**Well Name:** DONNIE BRASCO FED COM **Well Number:** 173H

**Well Type:** CONVENTIONAL GAS WELL **Well Work Type:** Drill

Highlighted data reflects the most recent changes

Show Final Text

## Bond

**Federal/Indian APD:** FED

**BLM Bond number:** NMB001841

**BIA Bond number:**

**Do you have a reclamation bond?** NO

**Is the reclamation bond a rider under the BLM bond?**

**Is the reclamation bond BLM or Forest Service?**

**BLM reclamation bond number:**

**Forest Service reclamation bond number:**

**Forest Service reclamation bond attachment:**

**Reclamation bond amount:**

**Reclamation bond rider amount:**

*Released to Imaging: 5/1/2026 9:47:52 AM*

**Additional reclamation bond information attachment:**

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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



## ACKNOWLEDGMENTS

| | |
|---|---|
| Operator:<br>Permian Resources Operating, LLC<br>300 N. Marienfeld St Ste 1000<br>Midland, TX 79701 | OGRID:<br>372165 |
| | Action Number:<br>555323 |
| | Action Type:<br>[C-101] BLM - Federal/Indian Land Lease (Form 3160-3) |

**ACKNOWLEDGMENTS**

| | |
|---|---|
| ☑ | I hereby certify that no additives containing PFAS chemicals will be added to the completion or recompletion of this well. |

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

CONDITIONS

Action 555323

## CONDITIONS

| Operator: | OGRID: |
|---|---|
| Permian Resources Operating, LLC<br>300 N. Marienfeld St Ste 1000<br>Midland, TX 79701 | 372165 |
| | Action Number:<br>555323 |
| | Action Type:<br>[C-101] BLM - Federal/Indian Land Lease (Form 3160-3) |

**CONDITIONS**

| Created By | Condition | Condition Date |
|---|---|---|
| clevans | Cement is required to circulate on both surface and intermediate1 strings of casing. | 2/18/2026 |
| clevans | If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing. | 2/18/2026 |
| ward.rikala | Notify the OCD 24 hours prior to casing & cement. | 5/1/2026 |
| ward.rikala | File As Drilled C-102 and a directional Survey with C-104 completion packet. | 5/1/2026 |
| ward.rikala | Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string. | 5/1/2026 |
| ward.rikala | Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system. | 5/1/2026 |
| ward.rikala | If the method of isolation was not by circulation, a CBL must be performed; if strata isolation is not achieved, then remediation will be required before further operations. | 5/1/2026 |