

**NM OIL CONSERVATION
ARTESIA DISTRICT**

JAN 03 2018

Form 3160-3
(March 2012)

FORM APPROVED
OMB No. 1004-0137
Expires October 31, 2014

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

APPLICATION FOR PERMIT TO DRILL OR REENTER

| | | |
|---|---|--|
| 1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER | | 5. Lease Serial No. NMNM117115 |
| 1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone | | 6. If Indian, Allottee or Tribe Name |
| 2. Name of Operator MATADOR PRODUCTION COMPANY | | 7. If Unit or CA Agreement, Name and No. |
| 3a. Address 5400 LBJ Freeway, Suite 1500 Dallas TX 7524 | | 8. Lease Name and Well No. WARREN FED COM 201H 317096 |
| 3b. Phone No. (include area code) (972)371-5200 | | 9. API Well No. 30-015-44615 |
| 4. Location of Well (Report location clearly and in accordance with any State requirements.)* At surface NWNW / 170 FNL / 710 FWL / LAT 32.2829426 / LONG -104.1501391 At proposed prod. zone SWSW / 240 FSL / 330 FWL / LAT 32.2693192 / LONG -104.1513651 | | 10. Field and Pool, or Exploratory PURPLE SAGE / WOLFCAMP, (GAS) 98220 |
| 11. Sec., T. R. M. or Blk. and Survey or Area SEC 25 / T23S / R27E / NMP | | 12. County or Parish EDDY |
| 13. State NM | | 14. Distance in miles and direction from nearest town or post office* 3 miles |
| 15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 170 feet | 16. No. of acres in lease 640 | 17. Spacing Unit dedicated to this well 320 |
| 18. Distance from proposed location* to nearest well, drilling, completed, 0 feet applied for, on this lease, ft. | 19. Proposed Depth 9350 feet / 14204 feet | 20. BLM/BIA Bond No. on file FED: NMB001079 |
| 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3133 feet | 22. Approximate date work will start* 06/01/2017 | 23. Estimated duration 90 days |

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, must be attached to this form:

- | | |
|---|---|
| <ol style="list-style-type: none"> 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). | <ol style="list-style-type: none"> 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 required by the BLM. |
|---|---|

| | | |
|--|---|--------------------|
| 25. Signature (Electronic Submission) | Name (Printed/Typed) Brian Wood / Ph: (505)466-8120 | Date 03/29/2017 |
| Title President | | |
| Approved by (Signature) (Electronic Submission) | Name (Printed/Typed) Cody Layton / Ph: (575)234-5959 | Date 12/21/2017 |
| Title Supervisor Multiple Resources | | |

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.

(Continued on page 2)

*(Instructions on page 2)

APPROVED WITH CONDITIONS
Approval Date: 12/21/2017

2017-5-18

R.P.
1-05-2018

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 1: 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 well, 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 directionally 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.

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 well 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 will 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 collects this information to allow 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 Collection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 LS, Washington, D.C. 20240.

Additional Operator Remarks

Location of Well

1. SHL: NWNW / 170 FNL / 710 FWL / TWSP: 23S / RANGE: 27E / SECTION: 25 / LAT: 32.2829426 / LONG: -104.1501391 (TVD: 0 feet, MD: 0 feet)
PPP: NWSW / 2640 FNL / 520 FWL / TWSP: 23S / RANGE: 27E / SECTION: 25 / LAT: 32.2760345 / LONG: -104.1513671 (TVD: 9350 feet, MD: 11804 feet)
BHL: SWSW / 240 FSL / 330 FWL / TWSP: 23S / RANGE: 27E / SECTION: 25 / LAT: 32.2693192 / LONG: -104.1513651 (TVD: 9350 feet, MD: 14204 feet)

BLM Point of Contact

Name: Tenille Ortiz

Title: Legal Instruments Examiner

Phone: 5752342224

Email: tortiz@blm.gov

Review and Appeal Rights

A person contesting a decision shall request a State Director review. This request must be filed within 20 working days of receipt of the Notice with the appropriate State Director (see 43 CFR 3165.3). The State Director review decision may be appealed to the Interior Board of Land Appeals, 801 North Quincy Street, Suite 300, Arlington, VA 22203 (see 43 CFR 3165.4). Contact the above listed Bureau of Land Management office for further information.

**PECOS DISTRICT
DRILLING OPERATIONS
CONDITIONS OF APPROVAL**

| | |
|-----------------------|-----------------------------------|
| OPERATOR'S NAME: | MATADOR PRODUCTION CO. |
| LEASE NO.: | NMNM117115 |
| WELL NAME & NO.: | 201H – WARREN FED COM |
| SURFACE HOLE FOOTAGE: | 170'/N & 710'/W |
| BOTTOM HOLE FOOTAGE: | 240'/S & 330'/W |
| LOCATION: | Section 25 T.23 S., R.27 E., NMPM |
| COUNTY: | Eddy County, New Mexico |

| | | | |
|----------------------|---|--|--|
| Potash | <input checked="" type="radio"/> None | <input checked="" type="radio"/> Secretary | <input checked="" type="radio"/> R-111-P |
| Cave/Karst Potential | <input checked="" type="radio"/> Low | <input checked="" type="radio"/> Medium | <input checked="" type="radio"/> High |
| Variance | <input checked="" type="radio"/> None | <input checked="" type="radio"/> Flex Hose | <input checked="" type="radio"/> Other |
| Wellhead | <input checked="" type="radio"/> Conventional | <input checked="" type="radio"/> Multibowl | |
| Other | <input type="checkbox"/> 4 String Area | <input type="checkbox"/> Capitan Reef | <input type="checkbox"/> WIPP |

A. Hydrogen Sulfide

1. Hydrogen Sulfide (H₂S) monitors shall be installed prior to drilling out the surface shoe. If H₂S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

B. CASING

1. The **13 3/8** inch surface casing shall be set at approximately **475** feet (a minimum of 25 feet into the Rustler Anhydrite and above the salt) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours

after bringing cement to surface or 500 pounds compressive strength, whichever is greater.

- d. If cement falls back, remedial cementing will be done prior to drilling out that string.
2. The minimum required fill of cement behind the **9 5/8** inch first intermediate casing is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above.
Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst.
 - ❖ In **Medium Cave/Karst Areas** if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
 3. The minimum required fill of cement behind the **7** inch second intermediate casing is:
 - Cement should tie-back at least **200** feet into previous casing string. Operator shall provide method of verification.
 4. The minimum required fill of cement behind the **4 1/2** inch production casing is:
 - Cement should tie-back at least **200** feet into previous casing string. Operator shall provide method of verification.

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).
2. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **2000 (2M)** psi.
- 3.

Option 1:

- i. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the **9 5/8** inch first intermediate casing shoe shall be **3000 (3M)** psi.

- ii. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the 7 inch second intermediate casing shoe shall be **5000 (5M)** psi.

Option 2:

- i. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the first intermediate casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the 9 5/8 inch first intermediate 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. **After the 9 5/8" casing has been landed and cemented, the operator will then lift up the BOP to install the "C-section of the wellhead. Therefore, per Onshore Oil and Gas Order No. 2, the entire BOP/BOPE shall be tested prior to drilling out the second intermediate casing shoe.**
 - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.

D. SPECIAL REQUIREMENT(S)

Waste Minimization Plan (WMP)

In the interest of resource development, submission of additional well gas capture development plan information is deferred but may be required by the BLM Authorized Officer at a later date.

Communitization Agreement

- The operator will submit a Communitization Agreement to the Carlsbad Field Office, 620 E Greene St. Carlsbad, New Mexico 88220, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by

the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.

- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

MHH 12092017

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)

Chaves and Roosevelt Counties
Call the Roswell Field Office, 2909 West Second St., Roswell NM 88201.
During office hours call (575) 627-0272.
After office hours call (575)

Eddy County
Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,
(575) 361-2822

Lea County
Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575)
393-3612

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.

3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

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

8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. Operator shall perform the intermediate casing integrity test to 70% of the casing burst. This will test the multi-bowl seals.
 - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after

installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).

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

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

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

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Original
to Appropriate
District Office

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

GAS CAPTURE PLAN

Original

Operator & OGRID No.: Matador Production Company (228937)

Amended

Date: 12/12/17

Reason for Amendment: _____

This Gas Capture Plan outlines actions to be taken by the Operator to reduce well/production facility flaring/venting for new completion (new drill, recomple to new zone, re-frac) activity.

Note: A C-129 must be submitted and approved prior to exceeding 60 days allowed by Rule 19.15.18.12.A

Well(s)/Production Facility – Name of facility

The well(s) that will be located at the production facility are shown in the table below.

| Well Name | API | Well Location (ULSTR) | Footages | Expected MCF/D | Flared or Vented | Comments |
|-------------------------|--------------|-----------------------|-----------------------|----------------|------------------|--|
| Warren Federal No. 201H | 30-015-##### | UL-O Sec 25 T23S R27E | ###' FNL & #,###' FWL | +/- 1,500 | ~21 days | Flare ~21 days on flowback before turn into TB. Time est. depends on sales connect and well cleanup. |
| Warren Federal No. 205H | 30-015-##### | UL-O Sec 25 T23S R27E | ###' FNL & #,###' FWL | +/- 1,500 | ~21 days | Flare ~21 days on flowback before turn into TB. Time est. depends on sales connect and well cleanup. |
| Warren Federal No. 221H | 30-015-##### | UL-O Sec 25 T23S R27E | ###' FNL & #,###' FWL | +/- 7,500 | ~21 days | Flare ~21 days on flowback before turn into TB. Time est. depends on sales connect and well cleanup. |
| Warren Federal No. 225H | 30-015-##### | UL-O Sec 25 T23S R27E | ###' FNL & #,###' FWL | +/- 7,500 | ~21 days | Flare ~21 days on flowback before turn into TB. Time est. depends on sales connect and well cleanup. |
| Warren Federal No. 121H | 30-015-##### | UL-O Sec 25 T23S R27E | ###' FNL & #,###' FWL | +/- 1,000 | ~21 days | Flare ~21 days on flowback before turn into TB. Time est. depends on sales connect and well cleanup. |

Gathering System and Pipeline Notification

The well will be connected to a production facility after flowback operations are complete so long as the gas transporter system is in place. The gas produced from the production facility is connected to Longwood RB Pipeline, LLC's low/high pressure gathering system located in Eddy County, New Mexico. It required ~2,000' of pipeline to connect the facility to the low/high pressure gathering system. Matador Production Company periodically provides a drilling, completion and

Approval Date: 12/21/2017

estimated first production date for wells that are scheduled to be drilled in the foreseeable future to Longwood RB Pipeline, LLC. If changes occur that will affect the drilling and completion schedule, Matador Production Company will notify Longwood RB Pipeline, LLC. Additionally, the gas produced from the well will be processed at a processing plant further downstream and, although unanticipated, any issues with downstream facilities could cause flaring at the wellhead. The actual flow of the gas will be based on compression operating parameters and gathering system pressures measured when the well starts producing.

Flowback Strategy

After the fracture treatment/completion operations (flowback), the well will be produced to temporary production tanks and the gas will be flared or vented. During flowback, the fluids and sand content will be monitored. If the produced fluids contain minimal sand, then the well will be turned to production facilities. The gas sales should start as soon as the well starts flowing through the production facilities, unless there are operational issues on the midstream system at that time. Based on current information, it is Matador's belief the system will be able to take the gas upon completion of the well.

Safety requirements during cleanout operations may necessitate that sand and non-pipeline quality gas be vented and/or flared rather than sold on a temporary basis.

Alternatives to Reduce Flaring

Below are alternatives considered from a conceptual standpoint to reduce the amount of gas flared.

- Power Generation – On lease
 - Operating a generator will only utilize a portion of the produced gas and the remainder of gas would still need to be flared.
 - Power Company has to be willing to purchase gas back and if they are willing they require a 5 year commitment to supply the agreed upon amount of power back to them. With gas decline rates and unpredictability of markets it is impossible to agree to such long term demands. If the demands are not met then operator is burdened with penalty for not delivering.
- Compressed Natural Gas – On lease
 - Compressed Natural Gas is likely to be uneconomic to operate when the gas volume declines.
- NGL Removal – On lease
 - NGL Removal requires a plant and is expensive on such a small scale rendering it uneconomic and still requires residue gas to be flared.

**PECOS DISTRICT
SURFACE USE
CONDITIONS OF APPROVAL**

| | |
|-----------------------|-----------------------------------|
| OPERATOR'S NAME: | MATADOR PRODUCTION CO. |
| LEASE NO.: | NMNM117115 |
| WELL NAME & NO.: | 201H – WARREN FED COM |
| SURFACE HOLE FOOTAGE: | 170'N & 710'W |
| BOTTOM HOLE FOOTAGE: | 240'S & 330'W |
| LOCATION: | Section 25 T.23 S., R.27 E., NMPM |
| COUNTY: | Eddy County, New Mexico |

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Standard Conditions of Approval (COA) apply to this APD. If any deviations to these standards exist or special COAs are required, the section with the deviation or requirement will be checked below.

- General Provisions**
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- Noxious Weeds**
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- Production (Post Drilling)**
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 - Pipelines
 - Electric Lines
- Interim Reclamation**
- Final Abandonment & Reclamation**

I. GENERAL PROVISIONS

The approval of the Application For Permit To Drill (APD) is in compliance with all applicable laws and regulations: 43 Code of Federal Regulations 3160, the lease terms, Onshore Oil and Gas Orders, Notices To Lessees, New Mexico Oil Conservation Division (NMOCD) Rules, National Historical Preservation Act As Amended, and instructions and orders of the Authorized Officer. Any request for a variance shall be submitted to the Authorized Officer on Form 3160-5, Sundry Notices and Report on Wells.

II. PERMIT EXPIRATION

If the permit terminates prior to drilling and drilling cannot be commenced within 60 days after expiration, an operator is required to submit Form 3160-5, Sundry Notices and Reports on Wells, requesting surface reclamation requirements for any surface disturbance. However, if the operator will be able to initiate drilling within 60 days after the expiration of the permit, the operator must have set the conductor pipe in order to allow for an extension of 60 days beyond the expiration date of the APD. (Filing of a Sundry Notice is required for this 60 day extension.)

III. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

Any cultural and/or paleontological resource discovered by the operator or by any person working on the operator's behalf shall immediately report such findings to the Authorized Officer. The operator is fully accountable for the actions of their contractors and subcontractors. The operator shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery shall be made by the Authorized Officer to determine the appropriate actions that shall be required to prevent the loss of significant cultural or scientific values of the discovery. The operator shall be held responsible for the cost of the proper mitigation measures that the Authorized Officer assesses after consultation with the operator on the evaluation and decisions of the discovery. Any unauthorized collection or disturbance of cultural or paleontological resources may result in a shutdown order by the Authorized Officer.

IV. NOXIOUS WEEDS

The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes the roads, pads, associated pipeline corridor, and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

V. SPECIAL REQUIREMENT(S)

Cave and Karst

** Depending on location, additional Drilling, Casing, and Cementing procedures may be required by engineering to protect critical karst groundwater recharge areas.

Cave/Karst Surface Mitigation

The following stipulations will be applied to minimize impacts during construction, drilling and production.

Construction:

In the advent that any underground voids are opened up during construction activities, construction activities will be halted and the BLM will be notified immediately.

No Blasting:

No blasting will be utilized for pad construction. The pad will be constructed and leveled by adding the necessary fill and caliche.

Pad Berming:

The entire perimeter of the well pad will be bermed to prevent oil, salt, and other chemical contaminants from leaving the well pad.

- The compacted berm shall be constructed at a minimum of 12 inches high with impermeable mineral material (e.g. caliche).
- No water flow from the uphill side(s) of the pad shall be allowed to enter the well pad.
- The topsoil stockpile shall be located outside the bermed well pad.
- Topsoil, either from the well pad or surrounding area, shall not be used to construct the berm.
- No storm drains, tubing or openings shall be placed in the berm.
- If fluid collects within the bermed area, the fluid must be vacuumed into a safe container and disposed of properly at a state approved facility.
- The integrity of the berm shall be maintained around the surfaced pad throughout the life of the well and around the downsized pad after interim reclamation has been completed.
- Any access road entering the well pad shall be constructed so that the integrity of the berm height surrounding the well pad is not compromised. (Any access road crossing the berm cannot be lower than the berm height.)

Tank Battery Liners and Berms:

Tank battery locations and all facilities will be lined and bermed. A 20 mil permanent liner will be installed with a 4 oz. felt backing to prevent tears or punctures. Tank battery berms must be large enough to contain 1 ½ times the content of the largest tank.

Leak Detection System:

A method of detecting leaks is required. The method could incorporate gauges to measure loss, situating valves and lines so they can be visually inspected, or installing electronic sensors to alarm when a leak is present. Leak detection plan will be submitted to BLM for approval.

Automatic Shut-off Systems:

Automatic shut off, check valves, or similar systems will be installed for pipelines and tanks to minimize the effects of catastrophic line failures used in production or drilling.

Cave/Karst Subsurface Mitigation

The following stipulations will be applied to protect cave/karst and ground water concerns:

Rotary Drilling with Fresh Water:

Fresh water will be used as a circulating medium in zones where caves or karst features are expected. SEE ALSO: Drilling COAs for this well.

Directional Drilling:

Kick off for directional drilling will occur at least 100 feet below the bottom of the cave occurrence zone. SEE ALSO: Drilling COAs for this well.

Lost Circulation:

ALL lost circulation zones from the surface to the base of the cave occurrence zone will be logged and reported in the drilling report.

Regardless of the type of drilling machinery used, if a void of four feet or more and circulation losses greater than 70 percent occur simultaneously while drilling in any cave-bearing zone, the BLM will be notified immediately by the operator. The BLM will assess the situation and work with the operator on corrective actions to resolve the problem.

Abandonment Cementing:

Upon well abandonment in high cave karst areas additional plugging conditions of approval may be required. The BLM will assess the situation and work with the operator to ensure proper plugging of the wellbore.

Pressure Testing:

Annual pressure monitoring will be performed by the operator on all casing annuli and reported in a sundry notice. If the test results indicated a casing failure has occurred, remedial action will be undertaken to correct the problem to the BLM's approval.

Watershed

- The entire well pad will be bermed to prevent oil, salt, and other chemical contaminants from leaving the well pad. Topsoil shall not be used to construct the berm. No water flow from the uphill side(s) of the pad shall be allowed to enter the

well pad. The berm shall be maintained through the life of the well and after interim reclamation has been completed.

- Any water erosion that may occur due to the construction of the well pad during the life of the well will be quickly corrected and proper measures will be taken to prevent future erosion.

VI. CONSTRUCTION

A. NOTIFICATION

The BLM shall administer compliance and monitor construction of the access road and well pad. Notify the Carlsbad Field Office at (575) 234-5909 at least 3 working days prior to commencing construction of the access road and/or well pad.

When construction operations are being conducted on this well, the operator shall have the approved APD and Conditions of Approval (COA) on the well site and they shall be made available upon request by the Authorized Officer.

B. TOPSOIL

The operator shall strip the top portion of the soil (root zone) from the entire well pad area and stockpile the topsoil along the edge of the well pad as depicted in the APD. The root zone is typically six (6) inches in depth. All the stockpiled topsoil will be redistributed over the interim reclamation areas. Topsoil shall not be used for berming the pad or facilities. For final reclamation, the topsoil shall be spread over the entire pad area for seeding preparation.

Other subsoil (below six inches) stockpiles must be completely segregated from the topsoil stockpile. Large rocks or subsoil clods (not evident in the surrounding terrain) must be buried within the approved area for interim and final reclamation.

C. CLOSED LOOP SYSTEM

Tanks are required for drilling operations: No Pits.

The operator shall properly dispose of drilling contents at an authorized disposal site.

D. FEDERAL MINERAL MATERIALS PIT

Payment shall be made to the BLM prior to removal of any federal mineral materials. Call the Carlsbad Field Office at (575) 234-5972.

E. WELL PAD SURFACING

Surfacing of the well pad is not required.

If the operator elects to surface the well pad, the surfacing material may be required to be removed at the time of reclamation. The well pad shall be constructed in a manner which creates the smallest possible surface disturbance, consistent with safety and operational needs.

F. EXCLOSURE FENCING (CELLARS & PITS)

Exclosure Fencing

The operator will install and maintain exclosure fencing for all open well cellars to prevent access to public, livestock, and large forms of wildlife before and after drilling operations until the pit is free of fluids and the operator initiates backfilling. (For examples of exclosure fencing design, refer to BLM's Oil and Gas Gold Book, Exclosure Fence Illustrations, Figure 1, Page 18.)

G. ON LEASE ACCESS ROADS**Road Width**

The access road shall have a driving surface that creates the smallest possible surface disturbance and does not exceed fourteen (14) feet in width. The maximum width of surface disturbance, when constructing the access road, shall not exceed twenty-five (25) feet.

Surfacing

Surfacing material is not required on the new access road driving surface. If the operator elects to surface the new access road or pad, the surfacing material may be required to be removed at the time of reclamation.

Where possible, no improvements should be made on the unsurfaced access road other than to remove vegetation as necessary, road irregularities, safety issues, or to fill low areas that may sustain standing water.

The Authorized Officer reserves the right to require surfacing of any portion of the access road at any time deemed necessary. Surfacing may be required in the event the road deteriorates, erodes, road traffic increases, or it is determined to be beneficial for future field development. The surfacing depth and type of material will be determined at the time of notification.

Crowning

Crowning shall be done on the access road driving surface. The road crown shall have a grade of approximately 2% (i.e., a 1" crown on a 14' wide road). The road shall conform to Figure 1; cross section and plans for typical road construction.

Ditching

Ditching shall be required on both sides of the road.

Turnouts

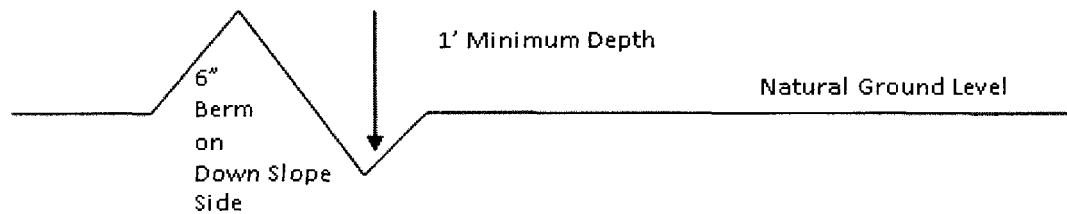
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

Drainage

Drainage control systems shall be constructed on the entire length of road (e.g. ditches, sidehill outsloping and insloping, lead-off ditches, culvert installation, and low water crossings).

A typical lead-off ditch has a minimum depth of 1 foot below and a berm of 6 inches above natural ground level. The berm shall be on the down-slope side of the lead-off ditch.

Cross Section of a Typical Lead-off Ditch



All lead-off ditches shall be graded to drain water with a 1 percent minimum to 3 percent maximum ditch slope. The spacing interval are variable for lead-off ditches and shall be determined according to the formula for spacing intervals of lead-off ditches, but may be amended depending upon existing soil types and centerline road slope (in %);

Formula for Spacing Interval of Lead-off Ditches

Example - On a 4% road slope that is 400 feet long, the water flow shall drain water into a lead-off ditch. Spacing interval shall be determined by the following formula:

$$400 \text{ foot road with } 4\% \text{ road slope: } \frac{400'}{4\%} + 100' = 200' \text{ lead-off ditch interval}$$

Cattle guards

An appropriately sized cattle guard sufficient to carry out the project shall be installed and maintained at fence/road crossings. Any existing cattle guards on the access road route shall be repaired or replaced if they are damaged or have deteriorated beyond practical use. The operator shall be responsible for the condition of the existing cattle guards that are in place and are utilized during lease operations.

Fence Requirement

Where entry is granted across a fence line, the fence shall be braced and tied off on both sides of the passageway prior to cutting. The operator shall notify the private surface landowner or the grazing allotment holder prior to crossing any fences.

Public Access

Public access on this road shall not be restricted by the operator without specific written approval granted by the Authorized Officer.

Construction Steps

1. Salvage topsoil
2. Construct road

3. Redistribute topsoil
4. Revegetate slopes

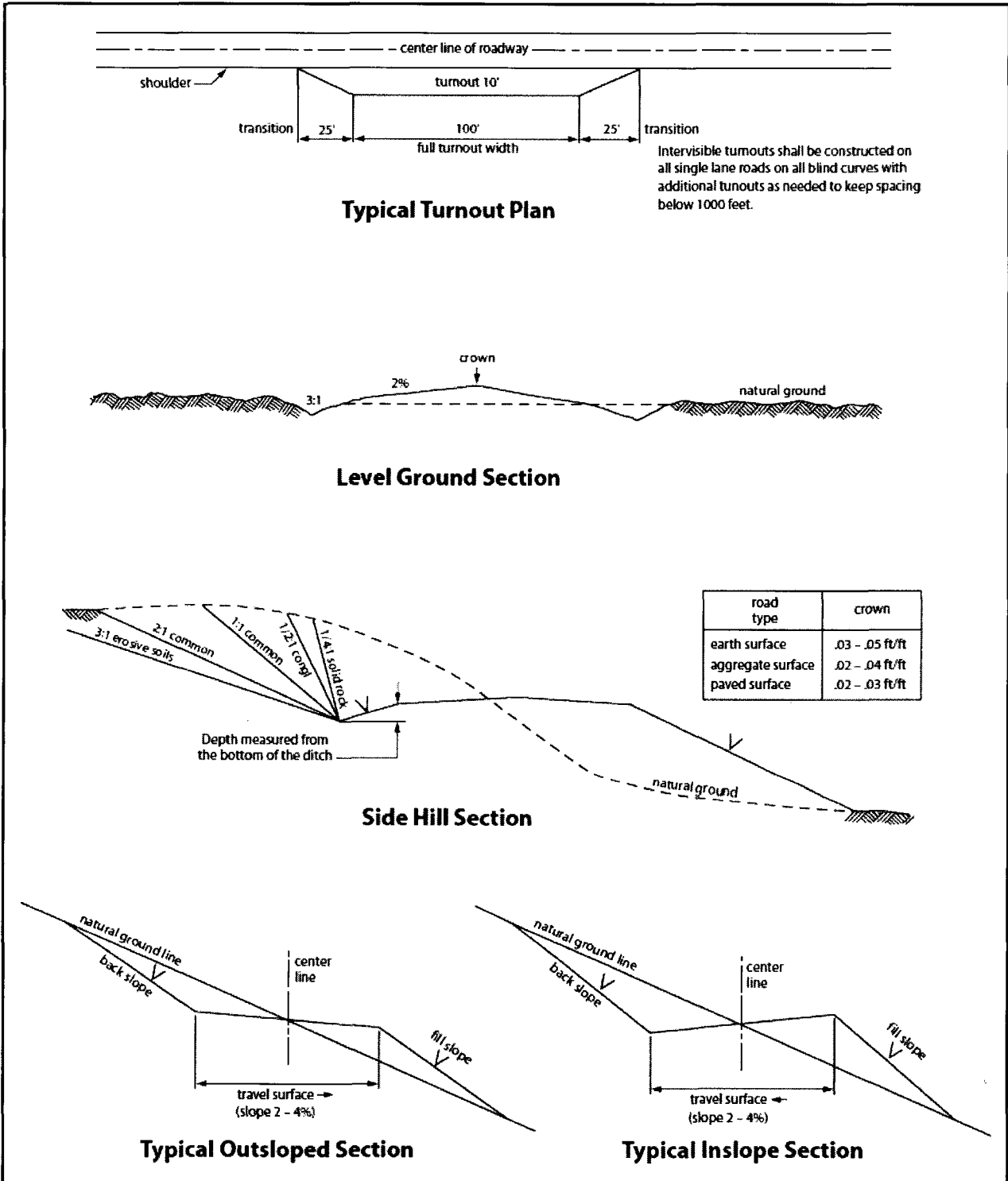


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

VII. PRODUCTION (POST DRILLING)

A. WELL STRUCTURES & FACILITIES

Placement of Production Facilities

Production facilities should be placed on the well pad to allow for maximum interim recontouring and revegetation of the well location.

Exclosure Netting (Open-top Tanks)

Immediately following active drilling or completion operations, the operator will take actions necessary to prevent wildlife and livestock access, including avian wildlife, to all open-topped tanks that contain or have the potential to contain salinity sufficient to cause harm to wildlife or livestock, hydrocarbons, or Resource Conservation and Recovery Act of 1976-exempt hazardous substances. At a minimum, the operator will net, screen, or cover open-topped tanks to exclude wildlife and livestock and prevent mortality. If the operator uses netting, the operator will cover and secure the open portion of the tank to prevent wildlife entry. The operator will net, screen, or cover the tanks until the operator removes the tanks from the location or the tanks no longer contain substances that could be harmful to wildlife or livestock. Use a maximum netting mesh size of 1 ½ inches. The netting must not be in contact with fluids and must not have holes or gaps.

Chemical and Fuel Secondary Containment and Exclosure Screening

The operator will prevent all hazardous, poisonous, flammable, and toxic substances from coming into contact with soil and water. At a minimum, the operator will install and maintain an impervious secondary containment system for any tank or barrel containing hazardous, poisonous, flammable, or toxic substances sufficient to contain the contents of the tank or barrel and any drips, leaks, and anticipated precipitation. The operator will dispose of fluids within the containment system that do not meet applicable state or U. S. Environmental Protection Agency livestock water standards in accordance with state law; the operator must not drain the fluids to the soil or ground. The operator will design, construct, and maintain all secondary containment systems to prevent wildlife and livestock exposure to harmful substances. At a minimum, the operator will install effective wildlife and livestock exclosure systems such as fencing, netting, expanded metal mesh, lids, and grate covers. Use a maximum netting mesh size of 1 ½ inches.

Open-Vent Exhaust Stack Exclosures

The operator will construct, modify, equip, and maintain all open-vent exhaust stacks on production equipment to prevent birds and bats from entering, and to discourage perching, roosting, and nesting. (*Recommended exclosure structures on open-vent exhaust stacks are in the shape of a cone.*) Production equipment includes, but may not be limited to, tanks, heater-treaters, separators, dehydrators, flare stacks, in-line units, and compressor mufflers.

Containment Structures

Proposed production facilities such as storage tanks and other vessels will have a secondary containment structure that is constructed to hold the capacity of 1.5 times the largest tank, plus freeboard to account for precipitation, unless more stringent protective requirements are deemed necessary.

Painting Requirement

All above-ground structures including meter housing that are not subject to safety requirements shall be painted a flat non-reflective paint color, **Shale Green** from the BLM Standard Environmental Color Chart (CC-001: June 2008).

B. PIPELINES

BURIED PIPELINE STIPULATIONS

A copy of the application (Grant, APD, or Sundry Notice) and attachments, including conditions of approval, survey plat and/or map, will be on location during construction. BLM personnel may request to you a copy of your permit during construction to ensure compliance with all stipulations.

Holder agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

1. The Holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.

2. The Holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 et seq. (1982) with regards to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant. (See 40 CFR Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.

3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C.6901, et seq.) on the Right-of-Way (unless the release or threatened release is wholly unrelated to

the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way holder on the Right-of-Way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.

4. If, during any phase of the construction, operation, maintenance, or termination of the pipeline, any oil or other pollutant should be discharged from the pipeline system, impacting Federal lands, the control and total removal, disposal, and cleaning up of such oil or other pollutant, wherever found, shall be the responsibility of holder, regardless of fault. Upon failure of holder to control, dispose of, or clean up such discharge on or affecting Federal lands, or to repair all damages resulting therefrom, on the Federal lands, the Authorized Officer may take such measures as he deems necessary to control and clean up the discharge and restore the area, including where appropriate, the aquatic environment and fish and wildlife habitats, at the full expense of the holder. Such action by the Authorized Officer shall not relieve holder of any responsibility as provided herein.

5. All construction and maintenance activity will be confined to the authorized right-of-way.

6. The pipeline will be buried with a minimum cover of 36 inches between the top of the pipe and ground level.

7. The maximum allowable disturbance for construction in this right-of-way will be 30 feet:

- Blading of vegetation within the right-of-way will be allowed: maximum width of blading operations will not exceed 20 feet. The trench is included in this area. (*Blading is defined as the complete removal of brush and ground vegetation.*)
- Clearing of brush species within the right-of-way will be allowed: maximum width of clearing operations will not exceed 30 feet. The trench and bladed area are included in this area. (*Clearing is defined as the removal of brush while leaving ground vegetation (grasses, weeds, etc.) intact. Clearing is best accomplished by holding the blade 4 to 6 inches above the ground surface.*)
- The remaining area of the right-of-way (if any) shall only be disturbed by compressing the vegetation. (*Compressing can be caused by vehicle tires, placement of equipment, etc.*)

8. The holder shall stockpile an adequate amount of topsoil where blading is allowed. The topsoil to be stripped is approximately 6 inches in depth. The topsoil will be

segregated from other spoil piles from trench construction. The topsoil will be evenly distributed over the bladed area for the preparation of seeding.

9. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting of the fence. No permanent gates will be allowed unless approved by the Authorized Officer.

10. Vegetation, soil, and rocks left as a result of construction or maintenance activity will be randomly scattered on this right-of-way and will not be left in rows, piles, or berms, unless otherwise approved by the Authorized Officer. The entire right-of-way shall be recontoured to match the surrounding landscape. The backfilled soil shall be compacted and a 6 inch berm will be left over the ditch line to allow for settling back to grade.

11. In those areas where erosion control structures are required to stabilize soil conditions, the holder will install such structures as are suitable for the specific soil conditions being encountered and which are in accordance with sound resource management practices.

12. The holder will reseed all disturbed areas. Seeding will be done according to the attached seeding requirements, using the following seed mix.

- | | |
|--|--|
| <input checked="" type="checkbox"/> seed mixture 1 | <input type="checkbox"/> seed mixture 3 |
| <input type="checkbox"/> seed mixture 2 | <input type="checkbox"/> seed mixture 4 |
| <input type="checkbox"/> seed mixture 2/LPC | <input type="checkbox"/> Aplomado Falcon Mixture |

13. All above-ground structures not subject to safety requirements shall be painted by the holder to blend with the natural color of the landscape. The paint used shall be color which simulates "Standard Environmental Colors" – **Shale Green**, Munsell Soil Color No. 5Y 4/2.

14. The pipeline will be identified by signs at the point of origin and completion of the right-of-way and at all road crossings. At a minimum, signs will state the holder's name, BLM serial number, and the product being transported. All signs and information thereon will be posted in a permanent, conspicuous manner, and will be maintained in a legible condition for the life of the pipeline.

15. The holder shall not use the pipeline route as a road for purposes other than routine maintenance as determined necessary by the Authorized Officer in consultation with the holder before maintenance begins. The holder will take whatever steps are necessary to ensure that the pipeline route is not used as a roadway. As determined necessary during the life of the pipeline, the Authorized Officer may ask the holder to construct temporary deterrence structures.

16. Any cultural and/or paleontological resources (historic or prehistoric site or object) discovered by the holder, or any person working on his behalf, on public or Federal land shall be immediately reported to the Authorized Officer. Holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

17. The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes associated roads, pipeline corridor and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

18. Escape Ramps - The operator will construct and maintain pipeline/utility trenches [that are not otherwise fenced, screened, or netted] to prevent livestock, wildlife, and humans from becoming entrapped. At a minimum, the operator will construct and maintain escape ramps, ladders, or other methods of avian and terrestrial wildlife escape in the trenches according to the following criteria:

- a. Any trench left open for eight (8) hours or less is not required to have escape ramps; however, before the trench is backfilled, the contractor/operator shall inspect the trench for wildlife, remove all trapped wildlife, and release them at least 100 yards from the trench.
- b. For trenches left open for eight (8) hours or more, earthen escape ramps (built at no more than a 30 degree slope and spaced no more than 500 feet apart) shall be placed in the trench.

C. ELECTRIC LINES
STANDARD STIPULATIONS FOR OVERHEAD ELECTRIC DISTRIBUTION
LINES

A copy of the grant and attachments, including stipulations, survey plat and/or map, will be on location during construction. BLM personnel may request to you a copy of your permit during construction to ensure compliance with all stipulations.

Holder agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

1. The holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.
2. The holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 et seq. (1982) with regards to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant. (See 40 CFR, Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.
3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, et seq.) on the Right-of-Way (unless the release or threatened release is wholly unrelated to the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way holder on the Right-of-Way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.
4. There will be no clearing or blading of the right-of-way unless otherwise agreed to in writing by the Authorized Officer.
5. Power lines shall be constructed and designed in accordance to standards outlined in "Suggested Practices for Avian Protection on Power lines: The State of the Art in 2006" Edison Electric Institute, APLIC, and the California Energy Commission 2006 . The holder shall assume the burden and expense of proving that pole designs not shown in the above publication deter raptor perching, roosting, and nesting. Such proof shall be provided by a raptor expert approved by the Authorized Officer. The BLM reserves the right to require modification or additions to all powerline structures placed on this right-of-way, should they be necessary to ensure the safety of large perching birds. Such modifications and/or additions shall be made by the holder without liability or expense to the United States.

Raptor deterrence will consist of but not limited to the following: triangle perch discouragers shall be placed on each side of the cross arms and a nonconductive perching deterrence shall be placed on all vertical poles that extend past the cross arms.

6. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting the fence. No permanent gates will be allowed unless approved by the Authorized Officer.

7. The BLM serial number assigned to this authorization shall be posted in a permanent, conspicuous manner where the power line crosses roads and at all serviced facilities. Numbers will be at least two inches high and will be affixed to the pole nearest the road crossing and at the facilities served.

8. Upon cancellation, relinquishment, or expiration of this grant, the holder shall comply with those abandonment procedures as prescribed by the Authorized Officer.

9. All surface structures (poles, lines, transformers, etc.) shall be removed within 180 days of abandonment, relinquishment, or termination of use of the serviced facility or facilities or within 180 days of abandonment, relinquishment, cancellation, or expiration of this grant, whichever comes first. This will not apply where the power line extends service to an active, adjoining facility or facilities.

10. Any cultural and/or paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on his behalf, on public or Federal land shall be immediately reported to the Authorized Officer. Holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

11. Special Stipulations:

- For reclamation remove poles, lines, transformer, etc. and dispose of properly.
- Fill in any holes from the poles removed.

VIII. INTERIM RECLAMATION

During the life of the development, all disturbed areas not needed for active support of production operations should undergo interim reclamation in order to minimize the environmental impacts of development on other resources and uses.

Within six (6) months of well completion, operators should work with BLM surface management specialists (Jim Amos: 575-234-5909) to devise the best strategies to reduce the size of the location. Interim reclamation should allow for remedial well operations, as well as safe and efficient removal of oil and gas.

During reclamation, the removal of caliche is important to increasing the success of revegetating the site. Removed caliche that is free of contaminants may be used for road repairs, fire walls or for building other roads and locations. In order to operate the well or complete workover operations, it may be necessary to drive, park and operate on restored interim vegetation within the previously disturbed area. Disturbing revegetated areas for production or workover operations will be allowed. If there is significant disturbance and loss of vegetation, the area will need to be revegetated. Communicate with the appropriate BLM office for any exceptions/exemptions if needed.

All disturbed areas after they have been satisfactorily prepared need to be reseeded with the seed mixture provided below.

Upon completion of interim reclamation, the operator shall submit a Sundry Notices and Reports on Wells, Subsequent Report of Reclamation (Form 3160-5).

IX. FINAL ABANDONMENT & RECLAMATION

At final abandonment, well locations, production facilities, and access roads must undergo "final" reclamation so that the character and productivity of the land are restored.

Earthwork for final reclamation must be completed within six (6) months of well plugging. All pads, pits, facility locations and roads must be reclaimed to a satisfactory revegetated, safe, and stable condition, unless an agreement is made with the landowner or BLM to keep the road and/or pad intact.

After all disturbed areas have been satisfactorily prepared, these areas need to be revegetated with the seed mixture provided below. Seeding should be accomplished by drilling on the contour whenever practical or by other approved methods. Seeding may need to be repeated until revegetation is successful, as determined by the BLM.

Operators shall contact a BLM surface protection specialist prior to surface abandonment operations for site specific objectives (Jim Amos: 575-234-5909).

Seed Mixture 1 for Loamy Sites

Holder shall seed all disturbed areas with the seed mixture listed below. The seed mixture shall be planted in the amounts specified in pounds of pure live seed (PLS)* per acre. There shall be no primary or secondary noxious weeds in the seed mixture. Seed shall be tested and the viability testing of seed will be done in accordance with State law(s) and within nine (9) months prior to purchase. Commercial seed shall be either certified or registered seed. The seed container shall be tagged in accordance with State law(s) and available for inspection by the Authorized Officer.

Seed shall be planted using a drill equipped with a depth regulator to ensure proper depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture shall be evenly and uniformly planted over the disturbed area (small/heavier seeds have a tendency to drop the bottom of the drill and are planted first). Holder shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed shall be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre shall be doubled. The seeding shall be repeated until a satisfactory stand is established as determined by the Authorized Officer. Evaluation of growth may not be made before completion of at least one full growing season after seeding.

Species to be planted in pounds of pure live seed* per acre:

| <u>Species</u> | <u>lb/acre</u> |
|--|----------------|
| Plains lovegrass (Eragrostis intermedia) | 0.5 |
| Sand dropseed (Sporobolus cryptandrus) | 1.0 |
| Sideoats grama (Bouteloua curtipendula) | 5.0 |
| Plains bristlegrass (Setaria macrostachya) | 2.0 |

*Pounds of pure live seed:

Pounds of seed x percent purity x percent germination = pounds pure live seed



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

Operator Certification Data Report

12/21/2017

Operator Certification

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: Brian Wood

Signed on: 03/29/2017

Title: President

Street Address: 37 Verano Loop

City: Santa Fe

State: NM

Zip: 87508

Phone: (505)466-8120

Email address: afmss@permitswest.com

Field Representative

Representative Name: Sam Pryor

Street Address: 5400 LBJ Freeway, Suite 1500

City: Dallas

State: TX

Zip: 75240

Phone: (972)371-5241

Email address:



| | | |
|--|------------------------------------|--|
| APD ID: 10400012711 | Submission Date: 03/29/2017 | Highlighted data reflects the most recent changes Show Final Text |
| Operator Name: MATADOR PRODUCTION COMPANY | | |
| Well Name: WARREN FED COM | Well Number: 201H | |
| Well Type: CONVENTIONAL GAS WELL | Well Work Type: Drill | |

Section 1 - General

| | | |
|---|--|------------------------------------|
| APD ID: 10400012711 | Tie to previous NOS? | Submission Date: 03/29/2017 |
| BLM Office: CARLSBAD | User: Brian Wood | Title: President |
| Federal/Indian APD: FED | Is the first lease penetrated for production Federal or Indian? FED | |
| Lease number: NMNM117115 | Lease Acres: 640 | |
| Surface access agreement in place? | Allotted? | Reservation: |
| Agreement in place? NO | Federal or Indian agreement: | |
| Agreement number: | | |
| Agreement name: | | |
| Keep application confidential? NO | | |
| Permitting Agent? YES | APD Operator: MATADOR PRODUCTION COMPANY | |
| Operator letter of designation: | Warren_201H_Operator_Designation_03-27-2017.pdf | |

Operator Info

Operator Organization Name: MATADOR PRODUCTION COMPANY

Operator Address: 5400 LBJ Freeway, Suite 1500
Zip: 75240

Operator PO Box:

Operator City: Dallas **State:** TX

Operator Phone: (972)371-5200

Operator Internet Address: amonroe@matadorresources.com

Section 2 - Well Information

| | | |
|--|-------------------------------------|-----------------------------------|
| Well in Master Development Plan? NO | Mater Development Plan name: | |
| Well in Master SUPO? NO | Master SUPO name: | |
| Well in Master Drilling Plan? NO | Master Drilling Plan name: | |
| Well Name: WARREN FED COM | Well Number: 201H | Well API Number: |
| Field/Pool or Exploratory? Field and Pool | Field Name: PURPLE SAGE | Pool Name: WOLFCAMP, (GAS) |
| Is the proposed well in an area containing other mineral resources? USEABLE WATER,NATURAL GAS,OIL | | |

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: WARREN FED COM

Well Number: 201H

Describe other minerals:

Is the proposed well in a Helium production area? N Use Existing Well Pad? NO New surface disturbance?

Type of Well Pad: MULTIPLE WELL

Multiple Well Pad Name:

Number: 1

Well Class: HORIZONTAL

WARREN SLOT

Number of Legs: 1

Well Work Type: Drill

Well Type: CONVENTIONAL GAS WELL

Describe Well Type:

Well sub-Type: INFILL

Describe sub-type:

Distance to town: 3 Miles

Distance to nearest well: 0 FT

Distance to lease line: 170 FT

Reservoir well spacing assigned acres Measurement: 320 Acres

Well plat: Warren_201H_Well_Plat_03-27-2017.pdf

Well work start Date: 06/01/2017

Duration: 90 DAYS

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83

Vertical Datum: NAVD88

Survey number: 18329

| | 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 |
|------------|---------|--------------|---------|--------------|------|-------|---------|-------------------|-------------|----------------|--------|-------------|-------------|------------|--------------|-----------|--------|-------|
| SHL Leg #1 | 170 | FNL | 710 | FWL | 23S | 27E | 25 | Aliquot NWN W | 32.28294 26 | - 104.1501 391 | EDD Y | NEW MEXI CO | NEW MEXI CO | F | FEE | 313 3 | 0 | 0 |
| KOP Leg #1 | 170 | FNL | 710 | FWL | 23S | 27E | 25 | Aliquot NWN W | 32.28294 26 | - 104.1501 391 | EDD Y | NEW MEXI CO | NEW MEXI CO | F | FEE | 233 3 | 800 | 800 |
| PPP Leg #1 | 264 0 | FNL | 520 | FWL | 23S | 27E | 25 | Aliquot NWS W | 32.27603 45 | - 104.1513 671 | EDD Y | NEW MEXI CO | NEW MEXI CO | F | FEE | - 621 7 | 118 04 | 935 0 |

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: WARREN FED COM

Well Number: 201H

| | 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 |
|-------------------|---------|--------------|---------|--------------|------|-------|---------|---------------------|----------------|----------------------|----------|-------------------|-------------------|------------|----------------|---------------|-----------|----------|
| EXIT Leg #1 | 240 | FSL | 330 | FWL | 23S | 27E | 25 | Aliquot SWS W | 32.26931 92 | - 104.1513 651 | EDD Y | NEW MEXI CO | NEW MEXI CO | F | NMNM 117115 | - 621 7 | 142 04 | 935 0 |
| BHL Leg #1 | 240 | FSL | 330 | FWL | 23S | 27E | 25 | Aliquot SWS W | 32.26931 92 | - 104.1513 651 | EDD Y | NEW MEXI CO | NEW MEXI CO | F | NMNM 117115 | - 621 7 | 142 04 | 935 0 |

Matador Production Company
Warren Fed Com 201H
SHL 170' FNL & 710' FWL Sec. 25
BHL 240' FSL & 330' FWL Sec. 25
T. 23 S., R. 27 E., Eddy County, NM

DRILL PLAN PAGE 5

6. CORES, TESTS, & LOGS

No core or drill stem test is planned.

A 2-person mud-logging program will be used from \approx 5600' to TD.

No electric logs are planned at this time. GR will be collected through the MWD tools from intermediate casing to TD. CBL with CCL will be run as far as gravity will let it fall to TOC.

7. DOWN HOLE CONDITIONS

No abnormal pressure or temperature is expected. Maximum expected bottom hole pressure is \approx 6700 psi. Expected bottom hole temperature is \approx 160° F.

Matador does not anticipate that there will be enough H₂S from surface to the Bone Spring to meet BLM's minimum requirements for submitting an "H₂S Drilling Operation Plan" or "Public Protection Plan" for drilling and completing this well. Since Matador has an H₂S safety package on all wells, an "H₂S Drilling Operations Plan" is attached. Adequate flare lines will be installed off the mud/gas separator where gas will be flared safely. All personnel will be familiar with all aspects of safe operation of equipment being used.

8. OTHER INFORMATION

Anticipated spud date is upon approval. It is expected it will take \approx 3 months to drill and complete the well. Matador Production Company owns the majority working interest in this well. Per its discussions with its potential partners, Matador will be named operator upon execution of the final Operating Agreements signed by the partners or the issuance of a pooling order by the State.

SCALE: 1" = 1000'

0' 500' 1000'



SECTION 25, TOWNSHIP 23-S, RANGE 27-E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

FND. BRASS CAP.
U.S. G.L.O. SUR.
1969



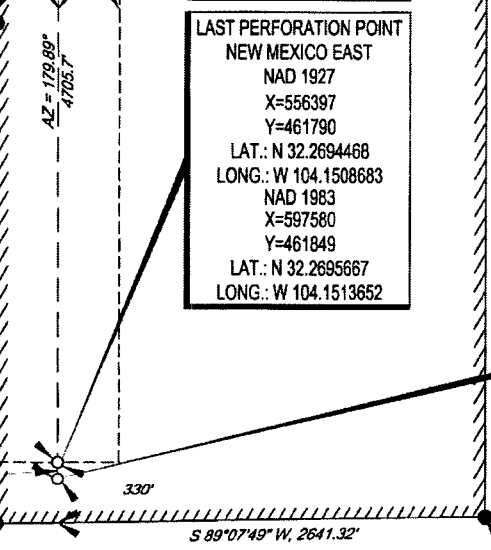
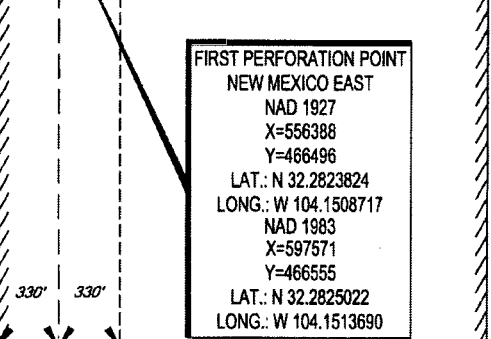
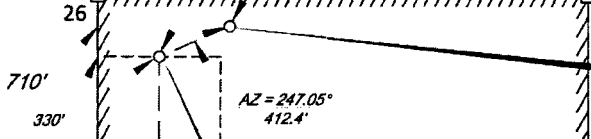
23 24
26 25

FND. BRASS CAP.
U.S. G.L.O. SUR.
1969

24
25

24 19
25 30

1/2" IRON
ROD FOUND



SURFACE LOCATION
NEW MEXICO EAST
NAD 1927
X=556768
Y=466657
LAT.: N 32.2828227
LONG.: W 104.1496419
NAD 1983
X=597951
Y=466716
LAT.: N 32.2829426
LONG.: W 104.1501391

FIRST PERFORATION POINT
NEW MEXICO EAST
NAD 1927
X=556388
Y=466496
LAT.: N 32.2823824
LONG.: W 104.1508717
NAD 1983
X=597571
Y=466555
LAT.: N 32.2825022
LONG.: W 104.1513690

LAST PERFORATION POINT
NEW MEXICO EAST
NAD 1927
X=556397
Y=461790
LAT.: N 32.2694468
LONG.: W 104.1508683
NAD 1983
X=597580
Y=461849
LAT.: N 32.2695667
LONG.: W 104.1513652

BOTTOM HOLE LOCATION
NEW MEXICO EAST
NAD 1927
X=556397
Y=461700
LAT.: N 32.2691993
LONG.: W 104.1508682
NAD 1983
X=597580
Y=461759
LAT.: N 32.2693192
LONG.: W 104.1513651

25 30
36 31

FND. BRASS CAP.
U.S. G.L.O. SUR.
1969

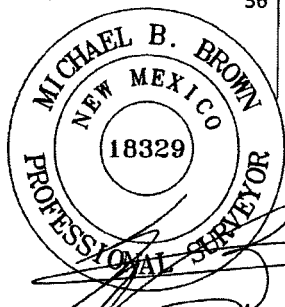
1/2" IRON
ROD FOUND

1/2" IRON
ROD FOUND

LEASE NAME & WELL NO.: WARREN FED #201H
SECTION 25 TWP 23-S RGE 27-E SURVEY N.M.P.M.
COUNTY EDDY STATE NM
DESCRIPTION 170' FNL & 710' FWL

DISTANCE & DIRECTION
FROM INT. OF US-285. & W. CEDAR ST., GO SOUTH ON US-285/SOUTH
8TH ST ±1.0 MILES, THENCE SOUTHWEST (RIGHT) ON HIGBY HOLE RD.
±0.4 MILES, THENCE WEST (RIGHT) ON BOUNDS RD. ±2.9 MILES TO A
POINT ±1900 FEET SOUTH OF THE LOCATION.

ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID BASED UPON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE OF THE NORTH AMERICAN DATUM 1927, U.S. SURVEY FEET
THIS EASEMENT/SERVITUDE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY MATADOR PRODUCTION COMPANY. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.
AS OF THE DATE OF SURVEY, ALL ABOVE GROUND APPURTENANCES WITHIN 300' OF THE STAKED LOCATION ARE SHOWN HEREON.



Michael Blake Brown, P.S. No. 18329
DECEMBER 6, 2016

TOPOGRAPHIC
LOYALTY INNOVATION LEGACY

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TELEPHONE: (817) 744-7512 • FAX (817) 744-7548
2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
TELEPHONE: (432) 682-1853 OR (800) 787-1853 • FAX (432) 682-1743
WWW.TOPOGRAPHIC.COM



APD ID: 10400012711

Submission Date: 03/29/2017

Highlighted data reflects the most recent changes

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: WARREN FED COM

Well Number: 201H

[Show Final Text](#)

Well Type: CONVENTIONAL GAS WELL

Well Work Type: Drill

Section 1 - Geologic Formations

| Formation ID | Formation Name | Elevation | True Vertical Depth | Measured Depth | Lithologies | Mineral Resources | Producing Formation |
|--------------|------------------|-----------|---------------------|----------------|------------------------------|-------------------|---------------------|
| 1 | --- | 3133 | 0 | 0 | OTHER : Quaternary (Caliche) | USEABLE WATER | No |
| 2 | SALADO | 2633 | 500 | 500 | SALT | OTHER : Salt | No |
| 3 | CASTILE | 2374 | 759 | 759 | ANHYDRITE | NONE | No |
| 4 | LAMAR | 790 | 2343 | 2346 | LIMESTONE | NONE | No |
| 5 | BELL CANYON | 725 | 2408 | 2411 | SANDSTONE | NONE | No |
| 6 | CHERRY CANYON | -26 | 3159 | 3165 | SANDSTONE | NATURAL GAS,OIL | No |
| 7 | BRUSHY CANYON | -1203 | 4336 | 4340 | SANDSTONE | NATURAL GAS,OIL | No |
| 8 | BONE SPRING LIME | -2695 | 5828 | 5834 | LIMESTONE | NATURAL GAS,OIL | No |
| 9 | BONE SPRING 1ST | -3364 | 6497 | 6511 | OTHER : Carbonate | NATURAL GAS,OIL | No |
| 10 | BONE SPRING 1ST | -3734 | 6867 | 6879 | SANDSTONE | NATURAL GAS,OIL | No |
| 11 | BONE SPRING 2ND | -3936 | 7069 | 7083 | OTHER : Carbonate | NATURAL GAS,OIL | No |
| 12 | BONE SPRING 2ND | -4382 | 7515 | 7529 | SANDSTONE | NATURAL GAS,OIL | Yes |
| 13 | BONE SPRING 3RD | -4533 | 7666 | 7680 | OTHER : CARBONATE | NATURAL GAS,OIL | No |
| 14 | BONE SPRING 3RD | -5720 | 8853 | 8867 | SANDSTONE | NATURAL GAS,OIL | No |
| 15 | WOLFCAMP | -6084 | 9217 | 9297 | LIMESTONE | NATURAL GAS,OIL | No |
| 16 | WOLFCAMP | -6093 | 9226 | 9306 | OTHER : X SAND TOP | NATURAL GAS,OIL | No |
| 17 | WOLFCAMP | -6127 | 9260 | 9355 | OTHER : X SAND BASE | NATURAL GAS,OIL | No |
| 18 | WOLFCAMP | -6171 | 9304 | 9472 | OTHER : Y SAND TOP | NATURAL GAS,OIL | Yes |

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: WARREN FED COM

Well Number: 201H

| Formation ID | Formation Name | Elevation | True Vertical Depth | Measured Depth | Lithologies | Mineral Resources | Producing Formation |
|--------------|----------------|-----------|---------------------|----------------|---------------------|-------------------|---------------------|
| 19 | WOLFCAMP | -6212 | 9345 | 9650 | OTHER : Y SAND BASE | NATURAL GAS,OIL | Yes |

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M

Rating Depth: 10000

Equipment: A 5K BOP stack consisting of 3 rams with 2 pipe rams, 1 blind ram, and 1 annular preventer will be installed. The BOP will be used below surface casing to TD. See attached BOP and choke manifold diagrams. An accumulator complying with Onshore Order 2 requirements for the BOP stack pressure rating will be present. Rotating head will be installed as needed.

Requesting Variance? YES

Variance request: Matador requests a variance to use a speed head. Matador requests a variance to drill this well using a co-flex line between the BOP and choke manifold. Certification for proposed co-flex hose is attached. The hose is not required by the manufacturer to be anchored. If the specific hose is not available, then one of equal or higher rating will be used.

Testing Procedure: A third party company will test the BOPs. After surface casing is set and the BOP is nipped up, then the BOP pressure tests will be made to 250 psi low and 2000 psi high. Intermediate 1 pressure tests will be made to 250 psi low and 3000 psi high. Intermediate 2 pressure tests will be made to 250 psi low and 5000 psi high. Annular preventer will be tested to 250 psi low and 1000 psi high on the surface casing, and 250 psi low and 2500 psi high on the intermediate 1 and 2 casing. In the case of running a speed head with landing mandrel for 9.625" and 7" casing, after surface casing is set, BOP test pressures will be 250 psi low and 3000 psi high. Wellhead seals will be tested to 5000 psi once the 9.625" casing has been landed and cemented. BOP will then be lifted to install the C-section of the wellhead. BOP will then be nipped back up and pressure tests made to 250 psi low and 5000 psi high and the annular will be tested to 250 psi low and 2500 psi high.

Choke Diagram Attachment:

Warren_201H_Choke_03-27-2017.pdf

BOP Diagram Attachment:

Warren_201H_BOP_06-08-2017.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 | 475 | 0 | 475 | -6217 | -6692 | 475 | J-55 | 54.5 | OTHER - BTC | 1.125 | 1.125 | DRY | 1.8 | DRY | 1.8 |
| 2 | INTERMEDIATE | 12.25 | 9.625 | NEW | API | N | 0 | 2450 | 0 | 2446 | -6217 | -8663 | 2450 | J-55 | 40 | OTHER - BTC | 1.125 | 1.125 | DRY | 1.8 | DRY | 1.8 |

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: WARREN FED COM

Well Number: 201H

| 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 |
|-----------|--------------|-----------|----------|-----------|----------|----------------|------------|---------------|-------------|----------------|-------------|----------------|-----------------------------|-------|--------|-----------------|-------------|----------|---------------|----------|--------------|---------|
| 3 | INTERMEDIATE | 8.75 | 7.0 | NEW | API | N | 0 | 9585 | 0 | 9335 | 3133 | -6202 | 9585 | P-110 | 29 | OTHER - BTC | 1.125 | 1.125 | DRY | 1.8 | DRY | 1.8 |
| 4 | PRODUCTION | 6.125 | 4.5 | NEW | API | N | 0 | 14201 | 0 | 9350 | 3133 | -6217 | 14201 | P-110 | 13.5 | OTHER - BTC/TXP | 1.125 | 1.125 | DRY | 1.8 | DRY | 1.8 |

Casing Attachments

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

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Warren_201H_Casing_Assumptions_Worksheet_03-27-2017.pdf

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

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Warren_201H_Casing_Assumptions_Worksheet_03-27-2017.pdf

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: WARREN FED COM

Well Number: 201H

Casing Attachments

Casing ID: 3 String Type: INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Warren_201H_Casing_Assumptions_Worksheet_03-27-2017.pdf

Casing ID: 4 String Type: PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Warren_201H_Casing_Assumptions_Worksheet_03-27-2017.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 | 475 | 100 | 1.82 | 12.8 | 182 | 100 | CLASS C | BENTONITE + 2% CACL2 + 3% NACL + LCM |
| SURFACE | Tail | | 0 | 475 | 350 | 1.38 | 14.8 | 483 | 100 | CLASS C | 5% NaCl + LCM |
| INTERMEDIATE | Lead | | 0 | 2450 | 510 | 2.13 | 12.6 | 1086 | 100 | CLASS C | BENTONITE + 1% CACL2 + 8% NACL + LCM |
| INTERMEDIATE | Tail | | 0 | 2450 | 270 | 1.38 | 14.8 | 372 | 100 | CLASS C | 5% NaCl + LCM |

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: WARREN FED COM

Well Number: 201H

| String Type | Lead/Tail | Stage Tool Depth | Top MD | Bottom MD | Quantity(sx) | Yield | Density | Cu Ft | Excess% | Cement type | Additives |
|--------------|-----------|------------------|--------|-----------|--------------|-------|---------|-------|---------|-------------|--|
| INTERMEDIATE | Lead | | 1400 | 9585 | 540 | 2.36 | 11.5 | 1274 | 35 | TXI | FLUID LOSS + DISPERSANT + RETARDER + LCM |
| INTERMEDIATE | Tail | | 1400 | 9585 | 320 | 1.38 | 13.2 | 441 | 35 | TXI | + FLUID LOSS + DISPERSANT + RETARDER + LCM |
| PRODUCTION | Lead | | 9200 | 14204 | 550 | 1.17 | 15.8 | 643 | 25 | CLASS H | FLUID LOSS + DISPERSANT + RETARDER + LCM |

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 Onshore Order #2:

Diagram of the equipment for the circulating system in accordance with Onshore Order #2:

Describe what will be on location to control well or mitigate other conditions: All necessary mud products (barite, bentonite, LCM) for weight addition and fluid loss control will be on location at all times.

Describe the mud monitoring system utilized: An electronic Pason mud monitoring system complying with Onshore Order 1 will be used.

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 |
|-----------|--------------|-----------------------------|----------------------|----------------------|---------------------|-----------------------------|----|----------------|----------------|-----------------|----------------------------|
| 9585 | 14204 | OIL-BASED MUD | 12.5 | 12.5 | | | | | | | |
| 0 | 475 | OTHER : FRESH WATER SPUD | 8.3 | 8.3 | | | | | | | |
| 2450 | 9585 | OTHER : FRESH WATER AND CUT | 9 | 9 | | | | | | | |

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: WARREN FED COM

Well Number: 201H

| 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 |
|-----------|--------------|---------------------|----------------------|----------------------|---------------------|-----------------------------|----|----------------|----------------|-----------------|----------------------------|
| | | BRINE | | | | | | | | | |
| 475 | 2450 | OTHER : BRINE WATER | 10 | 10 | | | | | | | |

Section 6 - Test, Logging, Coring

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

No core or drill stem test is planned.

A 2-person mud-logging program will be used from 5600' to TD.

No electric logs are planned at this time. GR will be collected through the MWD tools from intermediate casing to TD. CBL with CCL will be run as far as gravity will let it fall to TOC.

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

CBL,GR,OTH

Other log type(s):

CCL

Coring operation description for the well:

NO CORING OPERATION

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 6700

Anticipated Surface Pressure: 4643

Anticipated Bottom Hole Temperature(F): 160

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

Describe:

Contingency Plans geohazards description:

Contingency Plans geohazards attachment:

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations plan:

Warren_201H_H2S_Plan_03-29-2017.pdf

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: WARREN FED COM

Well Number: 201H

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Warren_201H_Horizontal_Drilling_Plan_03-29-2017.pdf

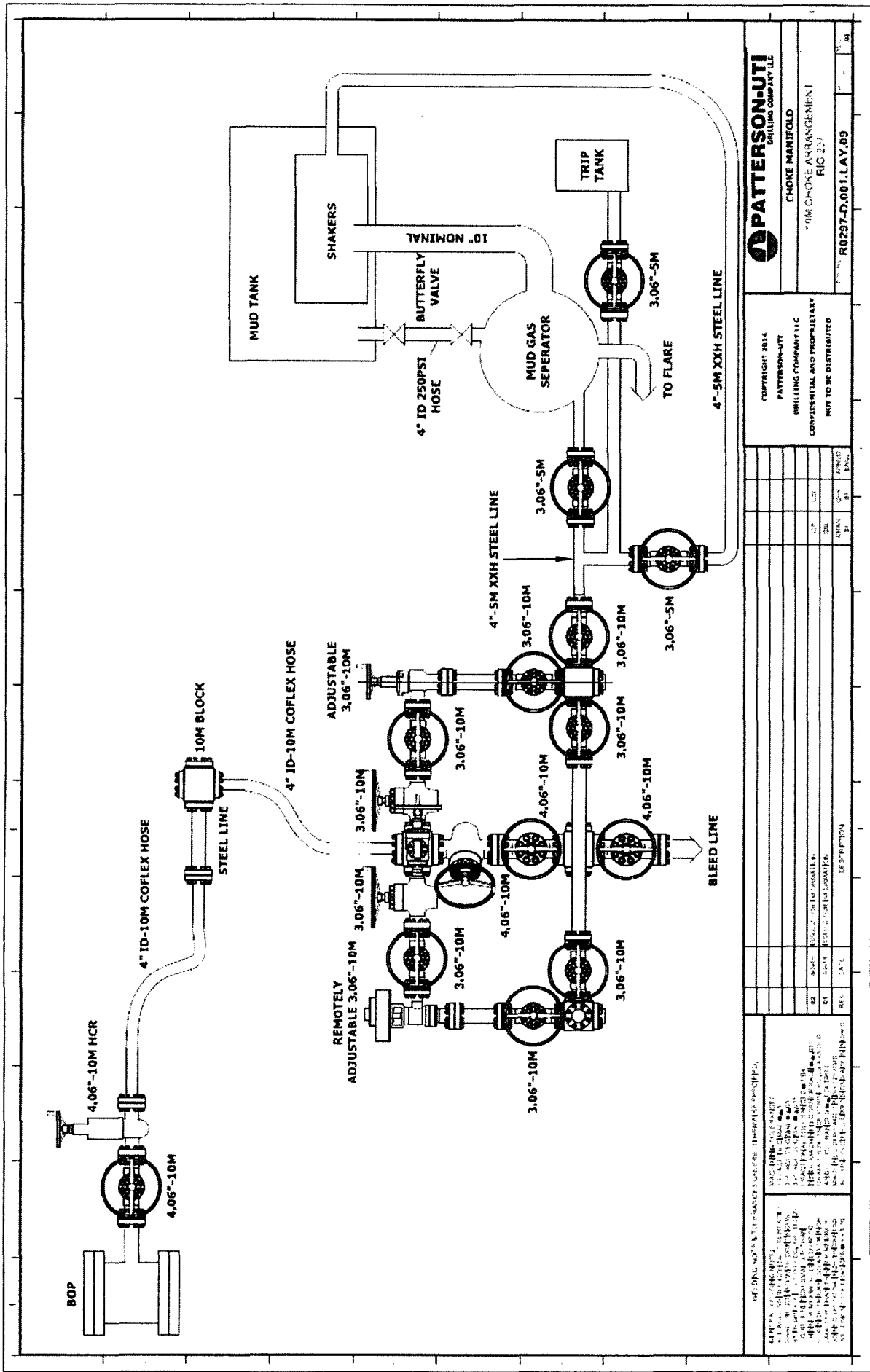
Other proposed operations facets description:

Other proposed operations facets attachment:

Warren_201H_General_Drilling_Plan_03-29-2017.pdf

Warren_201H_Wellhead_Casing_Spec_07-18-2017.pdf

Other Variance attachment:



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DRILLING COMPANY, LLC
CHOKES MANIFOLD
10M CHOKES ARRANGEMENT
RIC 207

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| | | | |
|-----|------|------------|------------------------|
| REV | NO | DATE | DESCRIPTION |
| 01 | 0001 | 08/01/2014 | ISSUE FOR CONSTRUCTION |
| 02 | 0002 | 08/01/2014 | ISSUE FOR CONSTRUCTION |
| 03 | 0003 | 08/01/2014 | ISSUE FOR CONSTRUCTION |

| | | | |
|-----|------|------------|------------------------|
| REV | NO | DATE | DESCRIPTION |
| 01 | 0001 | 08/01/2014 | ISSUE FOR CONSTRUCTION |
| 02 | 0002 | 08/01/2014 | ISSUE FOR CONSTRUCTION |
| 03 | 0003 | 08/01/2014 | ISSUE FOR CONSTRUCTION |

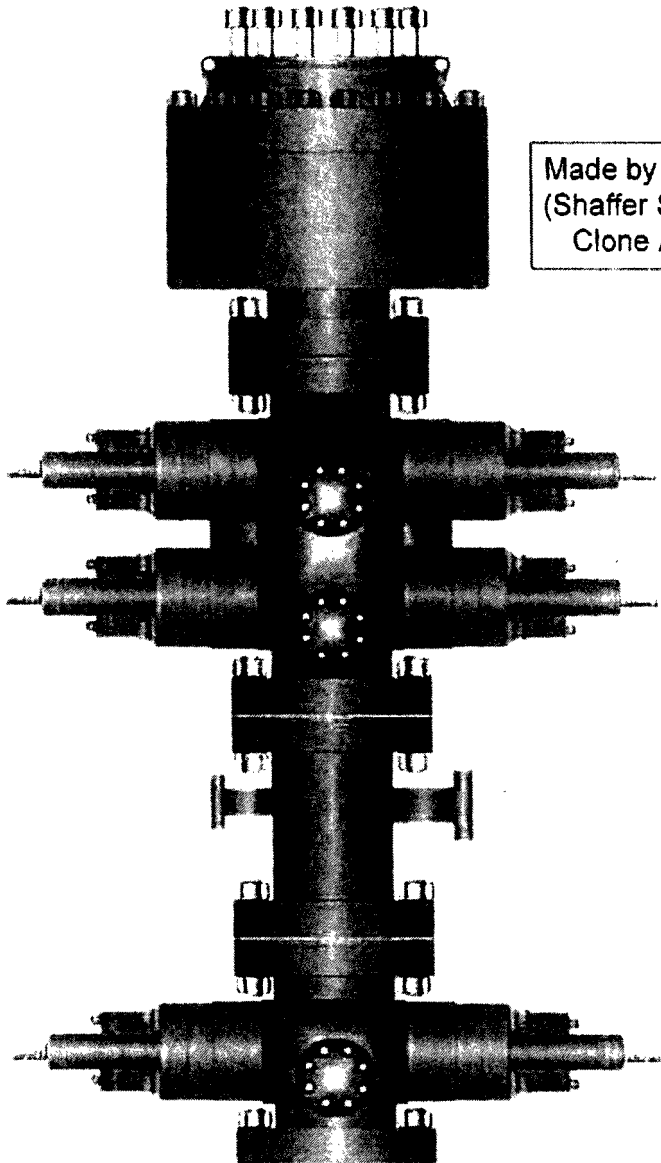
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RO297-D.001.LAY.09



PATTERSON-UTI
Well Control

RIG: 297



Made by Cameron
(Shaffer Spherical)
Clone Annular

PATTERSON-UTI # PS2-628
STYLE: New Shaffer Spherical
BORE 13 5/8" PRESSURE 5,000
HEIGHT: 48 1/2" WEIGHT: 13,800 lbs

PATTERSON-UTI # PC2-128
STYLE: New Cameron Type U
BORE 13 5/8" PRESSURE 10,000
RAMS: TOP 5" Pipe BTM Blinds
HEIGHT: 66 5/8" WEIGHT: 24,000 lbs

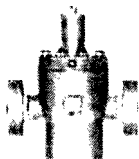
Length 40" Outlets 4" 10M
DSA 4" 10M x 2" 10M

PATTERSON-UTI # PC2-228
STYLE: New Cameron Type U
BORE 13 5/8" PRESSURE 10,000
RAMS: 5" Pipe
HEIGHT: 41 5/8" WEIGHT: 13,000 lbs

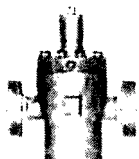
WING VALVES



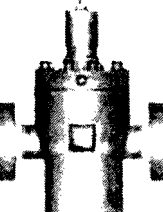
2" Check Valve



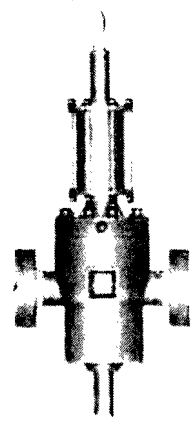
2" Manual Valve



2" Manual Valve



4" Manual Valve



4" Hydraulic Valve



Midwest Hose & Specialty, Inc.

Internal Hydrostatic Test Graph

December 8, 2014

Customer: Patterson

Pick Ticket #: 284918

Hose Specifications

Verification

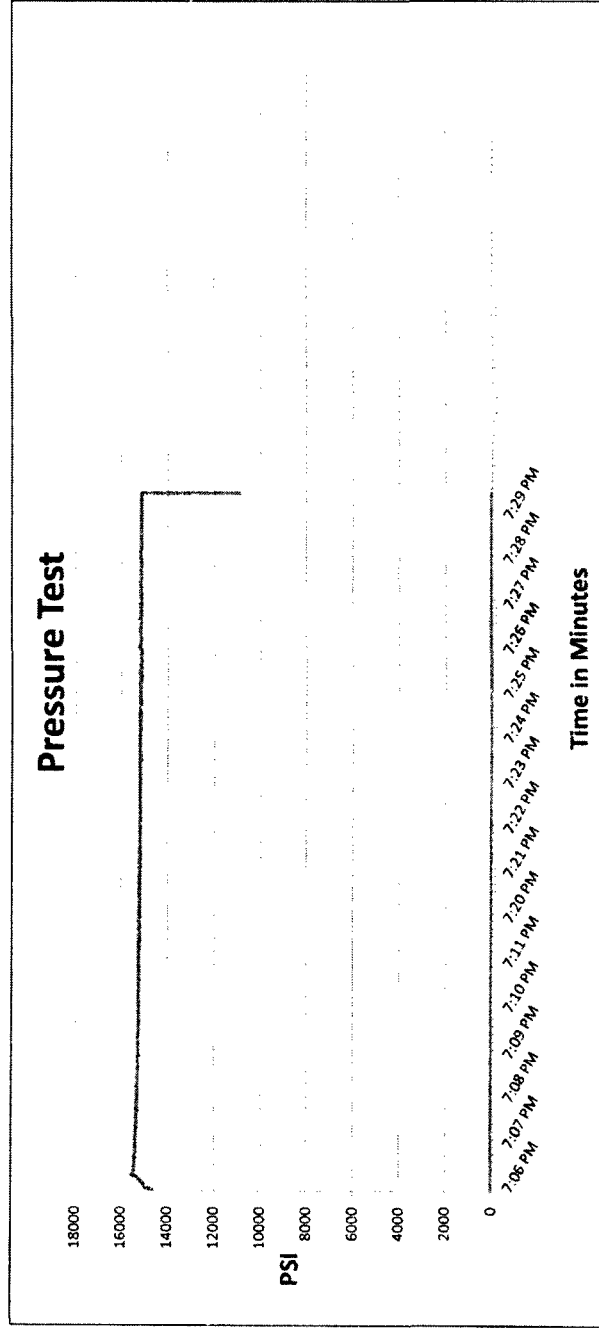
Hose Type Ck
I.D. 3"
Working Pressure 10000 PSI

Length 10'
O.D. 4.79"

Type of Fitting 4-1/16 10K
Die Size 5.37"
Hose Serial # 10490

Coupling Method Swage
Final O.D. 5.37"
Hose Assembly Serial # 284918-2

Burst Pressure
Standard Safety Multiplier Applies



Test Pressure
15000 PSI

Time Held at Test Pressure
15 2/4 Minutes

Actual Burst Pressure

Peak Pressure
15732 PSI

Comments: Hose assembly pressure tested with water at ambient temperature.

Tested By: Tyler Hill

Approved By: Ryan Adams

(Signature: Tyler Hill)
(Signature: Ryan Adams)



Midwest Hose
& Specialty, Inc.

Internal Hydrostatic Test Certificate

| General Information | | Hose Specifications | |
|-----------------------------------|---------------|--|--------------|
| Customer | PATTERSON B&E | Hose Assembly Type | Choke & Kill |
| MWH Sales Representative | AMY WHITE | Certification | API 7K |
| Date Assembled | 12/8/2014 | Hose Grade | MUD |
| Location Assembled | OKC | Hose Working Pressure | 10000 |
| Sales Order # | 236404 | Hose Lot # and Date Code | 10490-01/13 |
| Customer Purchase Order # | 260471 | Hose I.D. (Inches) | 3" |
| Assembly Serial # (Pick Ticket #) | 287918-2 | Hose O.D. (Inches) | 5.30" |
| Hose Assembly Length | 10' | Armor (yes/no) | YES |
| Fittings | | | |
| End A | | End B | |
| Stem (Part and Revision #) | R3.0X64WB | Stem (Part and Revision #) | R3.0X64WB |
| Stem (Heat #) | 91996 | Stem (Heat #) | 91996 |
| Ferrule (Part and Revision #) | RF3.0 | Ferrule (Part and Revision #) | RF3.0 |
| Ferrule (Heat #) | 37DA5631 | Ferrule (Heat #) | 37DA5631 |
| Connection (Part #) | 4 1/16 10K | Connection (Part #) | 4 1/16 10K |
| Connection (Heat #) | | Connection (Heat #) | |
| Dies Used | 5.37 | Dies Used | 5.37 |
| Hydrostatic Test Requirements | | | |
| Test Pressure (psi) | 15,000 | Hose assembly was tested with ambient water temperature. | |
| Test Pressure Hold Time (minutes) | 15 1/2 | | |
| Date Tested | 12/8/2014 | Tested By | Approved By |
| | | | |



Midwest Hose
& Specialty, Inc.

Certificate of Conformity

| | |
|---|---|
| <i>Customer:</i> PATTERSON B&E | <i>Customer P.O.#</i> 260471 |
| <i>Sales Order #</i> 236404 | <i>Date Assembled:</i> 12/8/2014 |

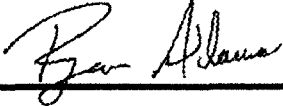
Specifications

| | |
|--|--|
| <i>Hose Assembly Type:</i> Choke & Kill | |
| <i>Assembly Serial #</i> 287918-2 | <i>Hose Lot # and Date Code</i> 10490-01/13 |
| <i>Hose Working Pressure (psi)</i> 10000 | <i>Test Pressure (psi)</i> 15000 |

We hereby certify that the above material supplied for the referenced purchase order to be true according to the requirements of the purchase order and current industry standards.

Supplier:
Midwest Hose & Specialty, Inc.
3312 S I-35 Service Rd
Oklahoma City, OK 73129

Comments:

| | |
|---|------------------|
| <i>Approved By</i> | <i>Date</i> |
|  | 12/9/2014 |

December 9, 2014

Internal Hydrostatic Test Graph



Midwest Hose & Specialty, Inc.

Customer: Patterson

Pick Ticket #: 284918

ASG

Hose Specifications

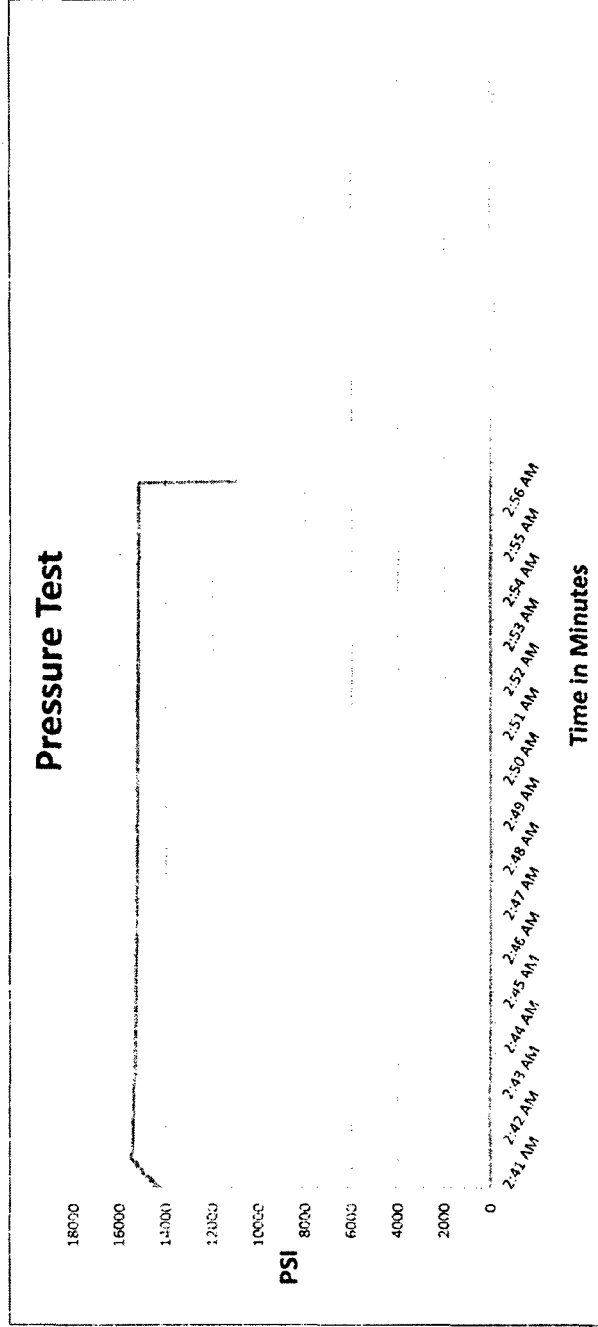
Hose Type
Ck
LD
3"
Working Pressure
10000 PSI

Length
20'
O.D.
4.77"

Verification

Type of Fitting
4-1/16 10K
Die Size
5.37"
Hose Serial #
10490
Coupling Method
Swage
Final O.D.
5.40"
Hose Assembly Serial #
284918-1

Pressure Test



Test Pressure
15000 PSI

Time Held at Test Pressure
15 3/4 Minutes

Actual Burst Pressure

Peak Pressure
15893 PSI

Comments: Hose assembly pressure tested with water at ambient temperature.

Tested By: *Tyler Hill*

Approved By: *Ryan Adams*

Tyler Hill

Ryan Adams



Midwest Hose
& Specialty, Inc.

Internal Hydrostatic Test Certificate

| General Information | | Hose Specifications | |
|-----------------------------------|---------------|--|--------------|
| Customer | PATTERSON B&E | Hose Assembly Type | Choke & Kill |
| MWH Sales Representative | AMY WHITE | Certification | API 7K |
| Date Assembled | 12/8/2014 | Hose Grade | MUD |
| Location Assembled | OKC | Hose Working Pressure | 10000 |
| Sales Order # | 236404 | Hose Lot # and Date Code | 10490-01/13 |
| Customer Purchase Order # | 260471 | Hose I.D. (Inches) | 3" |
| Assembly Serial # (Pick Ticket #) | 287918-1 | Hose O.D. (Inches) | 5.30" |
| Hose Assembly Length | 20' | Armor (yes/no) | YES |
| Fittings | | | |
| End A | | End B | |
| Stem (Part and Revision #) | R3.0X64WB | Stem (Part and Revision #) | R3.0X64WB |
| Stem (Heat #) | A141420 | Stem (Heat #) | A141420 |
| Ferrule (Part and Revision #) | RF3.0 | Ferrule (Part and Revision #) | RF3.0 |
| Ferrule (Heat #) | 37DA5631 | Ferrule (Heat #) | 37DA5631 |
| Connection (Part #) | 4 1/16 10K | Connection (Part #) | 4 1/16 10K |
| Connection (Heat #) | V3579 | Connection (Heat #) | V3579 |
| Dies Used | 5.37 | Dies Used | 5.37 |
| Hydrostatic Test Requirements | | | |
| Test Pressure (psi) | 15,000 | Hose assembly was tested with ambient water temperature. | |
| Test Pressure Hold Time (minutes) | 15 1/2 | | |
| Date Tested | 12/9/2014 | Tested By | Approved By |
| | | | |



Midwest Hose
& Specialty, Inc.

Certificate of Conformity

| | |
|---|---|
| <i>Customer:</i> PATTERSON B&E | <i>Customer P.O.#</i> 260471 |
| <i>Sales Order #</i> 236404 | <i>Date Assembled:</i> 12/8/2014 |

Specifications

| | |
|--|--|
| <i>Hose Assembly Type:</i> Choke & Kill | |
| <i>Assembly Serial #</i> 287918-1 | <i>Hose Lot # and Date Code</i> 10490-01/13 |
| <i>Hose Working Pressure (psi)</i> 10000 | <i>Test Pressure (psi)</i> 15000 |

We hereby certify that the above material supplied for the referenced purchase order to be true according to the requirements of the purchase order and current industry standards.

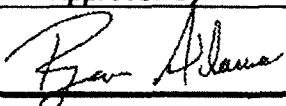
Supplier:

Midwest Hose & Specialty, Inc.

3312 S I-35 Service Rd

Oklahoma City, OK 73129

Comments:

| | |
|---|------------------|
| <i>Approved By</i> | <i>Date</i> |
|  | 12/9/2014 |

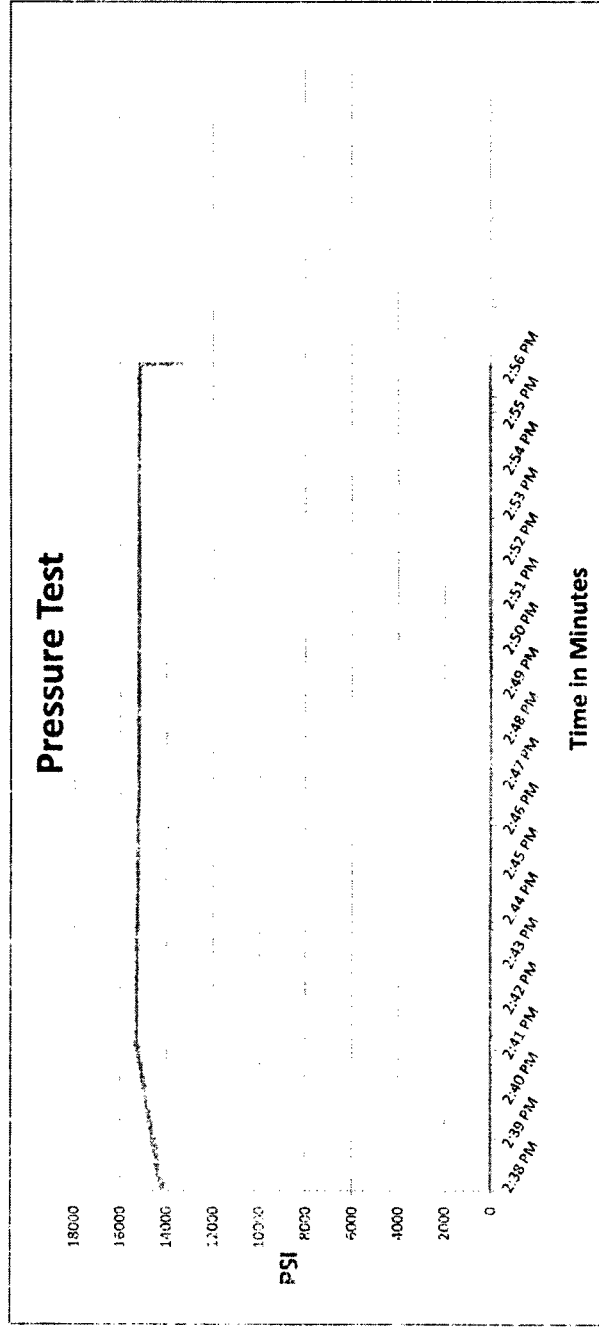
Internal Hydrostatic Test Graph



Midwest Hose & Specialty, Inc.

Customer: Patterson Pick Ticket #: 284918

| Hose Specifications | | Verification | |
|------------------------------------|-----------|------------------------|------------|
| Hose Type | Mud | Type of Fitting | 4.1/16.10K |
| Length | 70' | Coupling Method | Swage |
| I.D. | 3" | Die Size | 5.37" |
| O.D. | 4.79" | Hose Serial # | 10490 |
| Working Pressure | 10000 PSI | Hose Assembly Serial # | 284918-3 |
| Standard Safety Multiplier Applies | | | |



Test Pressure 15000 PSI Time Held at Test Pressure 16 3/4 Minutes Actual Burst Pressure Peak Pressure 15410 PSI

Comments: Hose assembly pressure tested with water at ambient temperature.


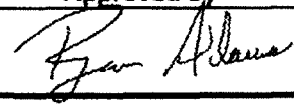
Tested By: Tyler Hill

Approved By: Ryan Adams



Midwest Hose
& Specialty, Inc.

Internal Hydrostatic Test Certificate

| General Information | | Hose Specifications | |
|-----------------------------------|--|--|---|
| Customer | PATTERSON B&E | Hose Assembly Type | Choke & Kill |
| MWH Sales Representative | AMY WHITE | Certification | API 7K |
| Date Assembled | 12/8/2014 | Hose Grade | MUD |
| Location Assembled | OKC | Hose Working Pressure | 10000 |
| Sales Order # | 236404 | Hose Lot # and Date Code | 10490-01/13 |
| Customer Purchase Order # | 260471 | Hose I.D. (Inches) | 3" |
| Assembly Serial # (Pick Ticket #) | 287918-3 | Hose O.D. (Inches) | 5.23" |
| Hose Assembly Length | 70' | Armor (yes/no) | YES |
| Fittings | | | |
| End A | | End B | |
| Stem (Part and Revision #) | R3.0X64WB | Stem (Part and Revision #) | R3.0X64WB |
| Stem (Heat #) | A141420 | Stem (Heat #) | A141420 |
| Ferrule (Part and Revision #) | RF3.0 | Ferrule (Part and Revision #) | RF3.0 |
| Ferrule (Heat #) | 37DA5631 | Ferrule (Heat #) | 37DA5631 |
| Connection (Part #) | 4 1/16 10K | Connection (Part #) | 4 1/16 10K |
| Connection (Heat #) | | Connection (Heat #) | |
| Dies Used | 5.37 | Dies Used | 5.37 |
| Hydrostatic Test Requirements | | | |
| Test Pressure (psi) | 15,000 | Hose assembly was tested with ambient water temperature. | |
| Test Pressure Hold Time (minutes) | 16 3/4 | | |
| | | | |
| Date Tested | Tested By | | Approved By |
| 12/9/2014 |  | |  |



Midwest Hose
& Specialty, Inc.

Certificate of Conformity

| | |
|---|---|
| <i>Customer:</i> PATTERSON B&E | <i>Customer P.O.#</i> 260471 |
| <i>Sales Order #</i> 236404 | <i>Date Assembled:</i> 12/8/2014 |


Specifications

| | |
|--|--|
| <i>Hose Assembly Type:</i> Choke & Kill | |
| <i>Assembly Serial #</i> 287918-3 | <i>Hose Lot # and Date Code</i> 10490-01/13 |
| <i>Hose Working Pressure (psi)</i> 10000 | <i>Test Pressure (psi)</i> 15000 |

We hereby certify that the above material supplied for the referenced purchase order to be true according to the requirements of the purchase order and current industry standards.

Supplier:
Midwest Hose & Specialty, Inc.
3312 S I-35 Service Rd
Oklahoma City, OK 73129

Comments:

| | |
|---|------------------|
| <i>Approved By</i> | <i>Date</i> |
|  | 12/9/2014 |

Casing Design Criteria and Load Case Assumptions

Surface Casing

Collapse: $DF_c=1.125$

- Full Internal Evacuation: Collapse force equal to the mud gradient in which the casing will be run (0.43 psi/ft). The effects of axial load on collapse will be considered.
- Cementing: Collapse force equal to the gradient of planned cement slurries to planned depths and an internal force equal to mud gradient of displacement fluid (0.52 psi/ft).

Burst: $DF_b=1.125$

- Pressure Test: Casing test per Onshore Oil and Gas Order No. 2 with an external force equal to the mud gradient in which the casing will be run (0.43 psi/ft), which is a more conservative backup force than pore pressure.

Tensile: $DF_t=1.8$

- Overpull: A downward force of 100,000 lbs is applied at the shoe along with the weight of the casing string utilizing the effects of buoyancy (8.3 ppg).

Intermediate #2 Casing

Collapse: $DF_c=1.125$

- Full Internal Evacuation: Collapse force equal to the mud gradient in which the casing will be run (0.52 psi/ft). The effects of axial load on collapse will be considered.
- Cementing: Collapse force equal to the gradient of planned cement slurries to planned depths and an internal force equal to mud gradient of displacement fluid (0.43 psi/ft).

Burst: $DF_b=1.125$

- Pressure Test: Casing test per Onshore Oil and Gas Order No. 2 with an external force equal to the mud gradient in which the casing will be run (0.52 psi/ft), which is a more conservative backup force than pore pressure.
- Gas Kick Profile: Internal burst force at the shoe will be Fracture Pressure at that depth. Surface burst pressure will be fracture gradient at setting depth less a gas gradient to equivalent height of 50 bbl kick with Drill Pipe inside casing and mud gradient with which the next hole section will be run above that (0.47 psi/ft). External force will be equal to the mud gradient in which the casing will be run (0.52 psi/ft), which is a more conservative backup force than pore pressure.
- Fracture at Shoe with 1/3 BHP at Surface: Internal burst force at the shoe will be Fracture Pressure at setting depth. Internal burst force at surface will be 1/3 of pore pressure at setting depth. External force will be equal to the mud gradient in which the casing will be run (0.52 psi/ft) which is a more conservative backup force than pore pressure.

Tensile: $DF_t=1.8$

- Overpull: A downward force of 100,000 lbs is applied at the shoe along with the weight of the casing string utilizing the effects of buoyancy (10.0 ppg).

Intermediate #2 Casing

Collapse: $DF_c=1.125$

- Partial Internal Evacuation: Collapse force equal to the mud gradient in which the casing will be run (0.47 psi/ft). The effects of axial load on collapse will be considered. Internal force equal to gas gradient over half of setting depth and mud gradient with which the next hole section will be run below that (0.65 psi/ft).

- Cementing: Collapse force equal to the gradient of planned cement slurries to planned depths and mud gradient in which the casing will be run above that (0.47 psi/ft) and an internal force equal to mud gradient of displacement fluid (0.43 psi/ft).

Burst: $DF_b=1.125$

- Pressure Test: Casing test per Onshore Oil and Gas Order No. 2 with an external force equal to the mud gradient in which the casing will be run (0.47 psi/ft), which is a more conservative backup force than pore pressure.
- Gas Kick Profile: Internal burst force at the shoe will be Fracture Pressure at that depth. Surface burst pressure will be fracture gradient at setting depth less a gas gradient to equivalent height of 100 bbl kick with Drill Pipe inside casing and mud gradient with which the next hole section will be run above that (0.65 psi/ft). External force will be equal to the mud gradient in which the casing will be run (0.47 psi/ft), which is a more conservative backup force than pore pressure.
- Fracture at Shoe with 1/3 BHP at Surface: Internal burst force at the shoe will be Fracture Pressure at setting depth. Internal burst force at surface will be 1/3 of pore pressure at setting depth. External force will be equal to the mud gradient in which the casing will be run (0.47 psi/ft) which is a more conservative backup force than pore pressure.

Tensile: $DF_t=1.8$

- Overpull: A downward force of 100,000 lbs is applied at the shoe along with the weight of the casing string utilizing the effects of buoyancy (9.0 ppg).

Production Casing

Collapse: $DF_c=1.125$

- Full Internal Evacuation: Collapse force equal to the mud gradient in which the casing will be run (0.65 psi/ft). The effects of axial load on collapse will be considered.
- Cementing: Collapse force equal to the gradient of planned cement slurries to planned depths and mud gradient in which the casing will be run above that (0.65 psi/ft) and an internal force equal to mud gradient of displacement fluid (0.43 psi/ft).

Burst: $DF_b=1.125$

- Pressure Test: 8000 psi casing test with an external force equal to the mud gradient in which the casing will be run (0.65 psi/ft), which is a more conservative backup force than pore pressure.
- Injection Down Casing: 9500 psi surface injection pressure plus an internal pressure gradient of 0.65 psi/ft with an external force equal to the mud gradient in which the casing will be run (0.65 psi/ft), which is a more conservative backup force than pore pressure.

Tensile: $DF_t=1.8$

- Overpull: A downward force of 100,000 lbs is applied at the shoe along with the weight of the casing string utilizing the effects of buoyancy (12.5 ppg).

Casing Design Criteria and Load Case Assumptions

Surface Casing

Collapse: $DF_c=1.125$

- Full Internal Evacuation: Collapse force equal to the mud gradient in which the casing will be run (0.43 psi/ft). The effects of axial load on collapse will be considered.
- Cementing: Collapse force equal to the gradient of planned cement slurries to planned depths and an internal force equal to mud gradient of displacement fluid (0.52 psi/ft).

Burst: $DF_b=1.125$

- Pressure Test: Casing test per Onshore Oil and Gas Order No. 2 with an external force equal to the mud gradient in which the casing will be run (0.43 psi/ft), which is a more conservative backup force than pore pressure.

Tensile: $DF_t=1.8$

- Overpull: A downward force of 100,000 lbs is applied at the shoe along with the weight of the casing string utilizing the effects of buoyancy (8.3 ppg).

Intermediate #2 Casing

Collapse: $DF_c=1.125$

- Full Internal Evacuation: Collapse force equal to the mud gradient in which the casing will be run (0.52 psi/ft). The effects of axial load on collapse will be considered.
- Cementing: Collapse force equal to the gradient of planned cement slurries to planned depths and an internal force equal to mud gradient of displacement fluid (0.43 psi/ft).

Burst: $DF_b=1.125$

- Pressure Test: Casing test per Onshore Oil and Gas Order No. 2 with an external force equal to the mud gradient in which the casing will be run (0.52 psi/ft), which is a more conservative backup force than pore pressure.
- Gas Kick Profile: Internal burst force at the shoe will be Fracture Pressure at that depth. Surface burst pressure will be fracture gradient at setting depth less a gas gradient to equivalent height of 50 bbl kick with Drill Pipe inside casing and mud gradient with which the next hole section will be run above that (0.47 psi/ft). External force will be equal to the mud gradient in which the casing will be run (0.52 psi/ft), which is a more conservative backup force than pore pressure.
- Fracture at Shoe with 1/3 BHP at Surface: Internal burst force at the shoe will be Fracture Pressure at setting depth. Internal burst force at surface will be 1/3 of pore pressure at setting depth. External force will be equal to the mud gradient in which the casing will be run (0.52 psi/ft) which is a more conservative backup force than pore pressure.

Tensile: $DF_t=1.8$

- Overpull: A downward force of 100,000 lbs is applied at the shoe along with the weight of the casing string utilizing the effects of buoyancy (10.0 ppg).

Intermediate #2 Casing

Collapse: $DF_c=1.125$

- Partial Internal Evacuation: Collapse force equal to the mud gradient in which the casing will be run (0.47 psi/ft). The effects of axial load on collapse will be considered. Internal force equal to gas gradient over half of setting depth and mud gradient with which the next hole section will be run below that (0.65 psi/ft).

- Cementing: Collapse force equal to the gradient of planned cement slurries to planned depths and mud gradient in which the casing will be run above that (0.47 psi/ft) and an internal force equal to mud gradient of displacement fluid (0.43 psi/ft).

Burst: $DF_b=1.125$

- Pressure Test: Casing test per Onshore Oil and Gas Order No. 2 with an external force equal to the mud gradient in which the casing will be run (0.47 psi/ft), which is a more conservative backup force than pore pressure.
- Gas Kick Profile: Internal burst force at the shoe will be Fracture Pressure at that depth. Surface burst pressure will be fracture gradient at setting depth less a gas gradient to equivalent height of 100 bbl kick with Drill Pipe inside casing and mud gradient with which the next hole section will be run above that (0.65 psi/ft). External force will be equal to the mud gradient in which the casing will be run (0.47 psi/ft), which is a more conservative backup force than pore pressure.
- Fracture at Shoe with 1/3 BHP at Surface: Internal burst force at the shoe will be Fracture Pressure at setting depth. Internal burst force at surface will be 1/3 of pore pressure at setting depth. External force will be equal to the mud gradient in which the casing will be run (0.47 psi/ft) which is a more conservative backup force than pore pressure.

Tensile: $DF_t=1.8$

- Overpull: A downward force of 100,000 lbs is applied at the shoe along with the weight of the casing string utilizing the effects of buoyancy (9.0 ppg).

Production Casing

Collapse: $DF_c=1.125$

- Full Internal Evacuation: Collapse force equal to the mud gradient in which the casing will be run (0.65 psi/ft). The effects of axial load on collapse will be considered.
- Cementing: Collapse force equal to the gradient of planned cement slurries to planned depths and mud gradient in which the casing will be run above that (0.65 psi/ft) and an internal force equal to mud gradient of displacement fluid (0.43 psi/ft).

Burst: $DF_b=1.125$

- Pressure Test: 8000 psi casing test with an external force equal to the mud gradient in which the casing will be run (0.65 psi/ft), which is a more conservative backup force than pore pressure.
- Injection Down Casing: 9500 psi surface injection pressure plus an internal pressure gradient of 0.65 psi/ft with an external force equal to the mud gradient in which the casing will be run (0.65 psi/ft), which is a more conservative backup force than pore pressure.

Tensile: $DF_t=1.8$

- Overpull: A downward force of 100,000 lbs is applied at the shoe along with the weight of the casing string utilizing the effects of buoyancy (12.5 ppg).

Casing Design Criteria and Load Case Assumptions

Surface Casing

Collapse: $DF_c=1.125$

- Full Internal Evacuation: Collapse force equal to the mud gradient in which the casing will be run (0.43 psi/ft). The effects of axial load on collapse will be considered.
- Cementing: Collapse force equal to the gradient of planned cement slurries to planned depths and an internal force equal to mud gradient of displacement fluid (0.52 psi/ft).

Burst: $DF_b=1.125$

- Pressure Test: Casing test per Onshore Oil and Gas Order No. 2 with an external force equal to the mud gradient in which the casing will be run (0.43 psi/ft), which is a more conservative backup force than pore pressure.

Tensile: $DF_t=1.8$

- Overpull: A downward force of 100,000 lbs is applied at the shoe along with the weight of the casing string utilizing the effects of buoyancy (8.3 ppg).

Intermediate #2 Casing

Collapse: $DF_c=1.125$

- Full Internal Evacuation: Collapse force equal to the mud gradient in which the casing will be run (0.52 psi/ft). The effects of axial load on collapse will be considered.
- Cementing: Collapse force equal to the gradient of planned cement slurries to planned depths and an internal force equal to mud gradient of displacement fluid (0.43 psi/ft).

Burst: $DF_b=1.125$

- Pressure Test: Casing test per Onshore Oil and Gas Order No. 2 with an external force equal to the mud gradient in which the casing will be run (0.52 psi/ft), which is a more conservative backup force than pore pressure.
- Gas Kick Profile: Internal burst force at the shoe will be Fracture Pressure at that depth. Surface burst pressure will be fracture gradient at setting depth less a gas gradient to equivalent height of 50 bbl kick with Drill Pipe inside casing and mud gradient with which the next hole section will be run above that (0.47 psi/ft). External force will be equal to the mud gradient in which the casing will be run (0.52 psi/ft), which is a more conservative backup force than pore pressure.
- Fracture at Shoe with 1/3 BHP at Surface: Internal burst force at the shoe will be Fracture Pressure at setting depth. Internal burst force at surface will be 1/3 of pore pressure at setting depth. External force will be equal to the mud gradient in which the casing will be run (0.52 psi/ft) which is a more conservative backup force than pore pressure.

Tensile: $DF_t=1.8$

- Overpull: A downward force of 100,000 lbs is applied at the shoe along with the weight of the casing string utilizing the effects of buoyancy (10.0 ppg).

Intermediate #2 Casing

Collapse: $DF_c=1.125$

- Partial Internal Evacuation: Collapse force equal to the mud gradient in which the casing will be run (0.47 psi/ft). The effects of axial load on collapse will be considered. Internal force equal to gas gradient over half of setting depth and mud gradient with which the next hole section will be run below that (0.65 psi/ft).

- Cementing: Collapse force equal to the gradient of planned cement slurries to planned depths and mud gradient in which the casing will be run above that (0.47 psi/ft) and an internal force equal to mud gradient of displacement fluid (0.43 psi/ft).

Burst: $DF_b=1.125$

- Pressure Test: Casing test per Onshore Oil and Gas Order No. 2 with an external force equal to the mud gradient in which the casing will be run (0.47 psi/ft), which is a more conservative backup force than pore pressure.
- Gas Kick Profile: Internal burst force at the shoe will be Fracture Pressure at that depth. Surface burst pressure will be fracture gradient at setting depth less a gas gradient to equivalent height of 100 bbl kick with Drill Pipe inside casing and mud gradient with which the next hole section will be run above that (0.65 psi/ft). External force will be equal to the mud gradient in which the casing will be run (0.47 psi/ft), which is a more conservative backup force than pore pressure.
- Fracture at Shoe with 1/3 BHP at Surface: Internal burst force at the shoe will be Fracture Pressure at setting depth. Internal burst force at surface will be 1/3 of pore pressure at setting depth. External force will be equal to the mud gradient in which the casing will be run (0.47 psi/ft) which is a more conservative backup force than pore pressure.

Tensile: $DF_t=1.8$

- Overpull: A downward force of 100,000 lbs is applied at the shoe along with the weight of the casing string utilizing the effects of buoyancy (9.0 ppg).

Production Casing

Collapse: $DF_c=1.125$

- Full Internal Evacuation: Collapse force equal to the mud gradient in which the casing will be run (0.65 psi/ft). The effects of axial load on collapse will be considered.
- Cementing: Collapse force equal to the gradient of planned cement slurries to planned depths and mud gradient in which the casing will be run above that (0.65 psi/ft) and an internal force equal to mud gradient of displacement fluid (0.43 psi/ft).

Burst: $DF_b=1.125$

- Pressure Test: 8000 psi casing test with an external force equal to the mud gradient in which the casing will be run (0.65 psi/ft), which is a more conservative backup force than pore pressure.
- Injection Down Casing: 9500 psi surface injection pressure plus an internal pressure gradient of 0.65 psi/ft with an external force equal to the mud gradient in which the casing will be run (0.65 psi/ft), which is a more conservative backup force than pore pressure.

Tensile: $DF_t=1.8$

- Overpull: A downward force of 100,000 lbs is applied at the shoe along with the weight of the casing string utilizing the effects of buoyancy (12.5 ppg).

Casing Design Criteria and Load Case Assumptions

Surface Casing

Collapse: $DF_c=1.125$

- Full Internal Evacuation: Collapse force equal to the mud gradient in which the casing will be run (0.43 psi/ft). The effects of axial load on collapse will be considered.
- Cementing: Collapse force equal to the gradient of planned cement slurries to planned depths and an internal force equal to mud gradient of displacement fluid (0.52 psi/ft).

Burst: $DF_b=1.125$

- Pressure Test: Casing test per Onshore Oil and Gas Order No. 2 with an external force equal to the mud gradient in which the casing will be run (0.43 psi/ft), which is a more conservative backup force than pore pressure.

Tensile: $DF_t=1.8$

- Overpull: A downward force of 100,000 lbs is applied at the shoe along with the weight of the casing string utilizing the effects of buoyancy (8.3 ppg).

Intermediate #2 Casing

Collapse: $DF_c=1.125$

- Full Internal Evacuation: Collapse force equal to the mud gradient in which the casing will be run (0.52 psi/ft). The effects of axial load on collapse will be considered.
- Cementing: Collapse force equal to the gradient of planned cement slurries to planned depths and an internal force equal to mud gradient of displacement fluid (0.43 psi/ft).

Burst: $DF_b=1.125$

- Pressure Test: Casing test per Onshore Oil and Gas Order No. 2 with an external force equal to the mud gradient in which the casing will be run (0.52 psi/ft), which is a more conservative backup force than pore pressure.
- Gas Kick Profile: Internal burst force at the shoe will be Fracture Pressure at that depth. Surface burst pressure will be fracture gradient at setting depth less a gas gradient to equivalent height of 50 bbl kick with Drill Pipe inside casing and mud gradient with which the next hole section will be run above that (0.47 psi/ft). External force will be equal to the mud gradient in which the casing will be run (0.52 psi/ft), which is a more conservative backup force than pore pressure.
- Fracture at Shoe with 1/3 BHP at Surface: Internal burst force at the shoe will be Fracture Pressure at setting depth. Internal burst force at surface will be 1/3 of pore pressure at setting depth. External force will be equal to the mud gradient in which the casing will be run (0.52 psi/ft) which is a more conservative backup force than pore pressure.

Tensile: $DF_t=1.8$

- Overpull: A downward force of 100,000 lbs is applied at the shoe along with the weight of the casing string utilizing the effects of buoyancy (10.0 ppg).

Intermediate #2 Casing

Collapse: $DF_c=1.125$

- Partial Internal Evacuation: Collapse force equal to the mud gradient in which the casing will be run (0.47 psi/ft). The effects of axial load on collapse will be considered. Internal force equal to gas gradient over half of setting depth and mud gradient with which the next hole section will be run below that (0.65 psi/ft).

- Cementing: Collapse force equal to the gradient of planned cement slurries to planned depths and mud gradient in which the casing will be run above that (0.47 psi/ft) and an internal force equal to mud gradient of displacement fluid (0.43 psi/ft).

Burst: $DF_b=1.125$

- Pressure Test: Casing test per Onshore Oil and Gas Order No. 2 with an external force equal to the mud gradient in which the casing will be run (0.47 psi/ft), which is a more conservative backup force than pore pressure.
- Gas Kick Profile: Internal burst force at the shoe will be Fracture Pressure at that depth. Surface burst pressure will be fracture gradient at setting depth less a gas gradient to equivalent height of 100 bbl kick with Drill Pipe inside casing and mud gradient with which the next hole section will be run above that (0.65 psi/ft). External force will be equal to the mud gradient in which the casing will be run (0.47 psi/ft), which is a more conservative backup force than pore pressure.
- Fracture at Shoe with 1/3 BHP at Surface: Internal burst force at the shoe will be Fracture Pressure at setting depth. Internal burst force at surface will be 1/3 of pore pressure at setting depth. External force will be equal to the mud gradient in which the casing will be run (0.47 psi/ft) which is a more conservative backup force than pore pressure.

Tensile: $DF_t=1.8$

- Overpull: A downward force of 100,000 lbs is applied at the shoe along with the weight of the casing string utilizing the effects of buoyancy (9.0 ppg).

Production Casing

Collapse: $DF_c=1.125$

- Full Internal Evacuation: Collapse force equal to the mud gradient in which the casing will be run (0.65 psi/ft). The effects of axial load on collapse will be considered.
- Cementing: Collapse force equal to the gradient of planned cement slurries to planned depths and mud gradient in which the casing will be run above that (0.65 psi/ft) and an internal force equal to mud gradient of displacement fluid (0.43 psi/ft).

Burst: $DF_b=1.125$

- Pressure Test: 8000 psi casing test with an external force equal to the mud gradient in which the casing will be run (0.65 psi/ft), which is a more conservative backup force than pore pressure.
- Injection Down Casing: 9500 psi surface injection pressure plus an internal pressure gradient of 0.65 psi/ft with an external force equal to the mud gradient in which the casing will be run (0.65 psi/ft), which is a more conservative backup force than pore pressure.

Tensile: $DF_t=1.8$

- Overpull: A downward force of 100,000 lbs is applied at the shoe along with the weight of the casing string utilizing the effects of buoyancy (12.5 ppg).



Hydrogen Sulfide Drilling

Operations Plan

Matador Resources

1 H2S safety instructions to the following:

- Characteristics of H2S
- Physical effects and hazards
- Principal and operation of H2S detectors, warning system, and briefing areas
- Evacuation procedures, routes, and first aid
- Proper use of safety equipment & life support systems
- Essential personnel meeting medical evaluation criteria will receive additional training on the proper use of 30-minute pressure demand air packs.

2 H2S Detection and Alarm Systems:

- H2S sensor/detectors to be located on the drilling rig floor, in the base of the sub structure / cellar area, on the mud pits in the shale shaker area. Additional H2S detectors may be placed as deemed necessary.
- An audio alarm system will be installed on the derrick floor and in the doghouse.

3 Windssocks and / Wind Streamers:

- Windssocks at mud pit area should be high enough to be visible.
- Windssock on the rig floor and / top of doghouse should be high enough to be visible.

4 Condition Flags and Signs:

- Warning sign on access road to location
- Flags to be displayed on sign at entrance to location
 - Green Flag – Normal Safe Operation Condition
 - Yellow Flag – Potential Pressure and Danger
 - Red Flag – Danger (H2S present in dangerous concentrations) Only H2S trained personnel admitted on location

5 Well Control Equipment:

- See APD

6 Communications:

- While working under masks, chalkboards will be used for communications.
- Hand signals will be used where chalkboard is inappropriate.
- Two-way radio will be used to communicate off location in case emergency help is required. In most cases, cellular telephones will be available at most drilling foreman's trailer or living quarters.



7 Drilling Stem Testing:

- No DSTs or cores are planned at this time

8 Drilling contractor supervisor will be familiar with the effects H₂S has on tubulars good and other mechanical equipment.

9 If H₂S is encountered, mud system will be altered if necessary to maintain control of formation. A mud gas separator will be brought into service along with H₂S scavengers if necessary.

11 Emergency Contacts

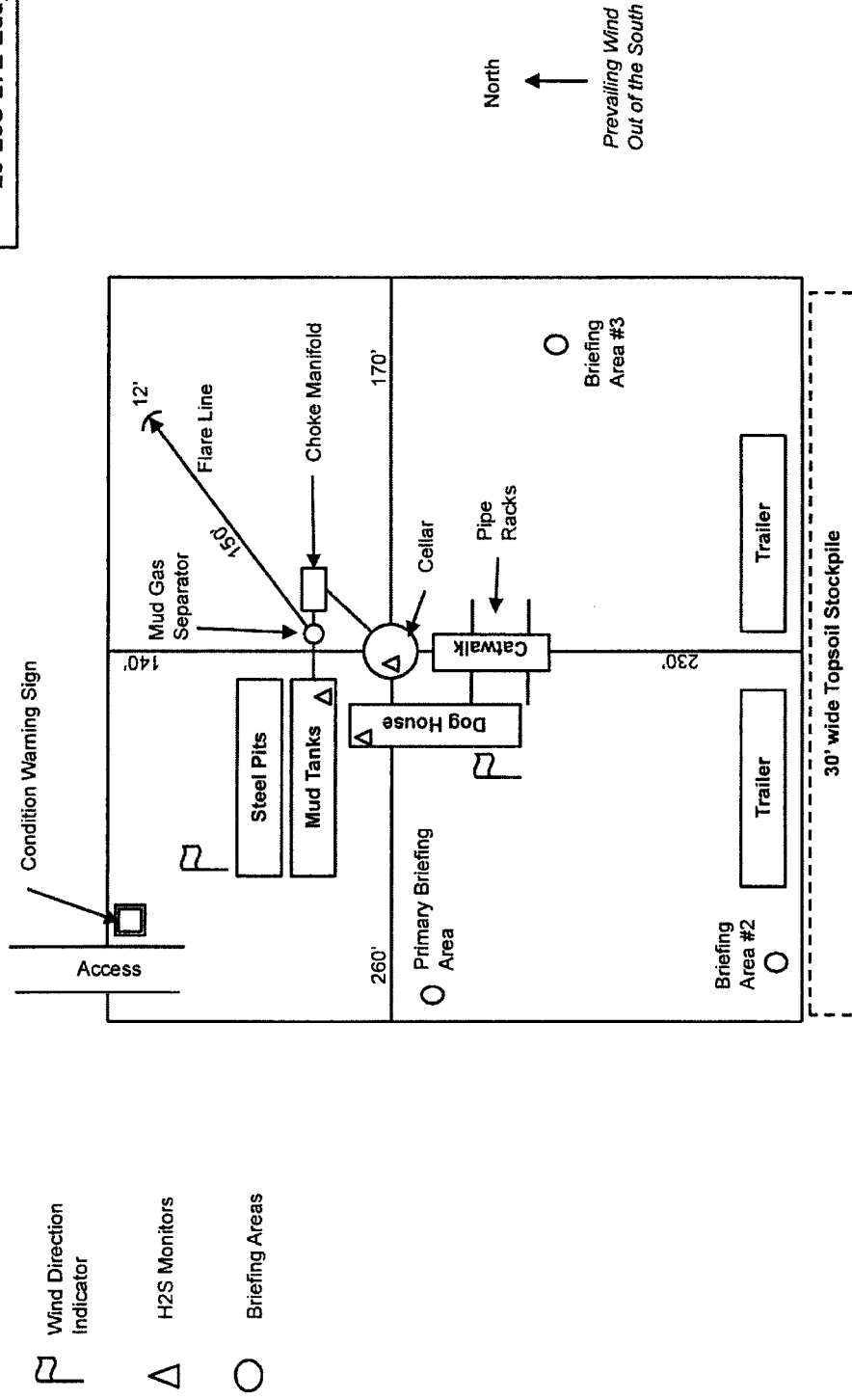
- See next page

H2S Contingency Plan Emergency Contacts
 Matador Production Company
 Warren Fed Com 25-23s-27e wells, Eddy County, NM

| <u>Company Office</u> | | | |
|--|-----------------------------|----------------|-----------------|
| Matador Production Company | | (972)-371-5200 | |
| <u>Key Personnel</u> | | | |
| Name | Title | Office | Mobile |
| Billy Goodwin | Vice President Drilling | 972-371-5210 | 817-522-2928 |
| Gary Martin | Drilling Superintendent | | 601-669-1774 |
| Dee Smith | Drilling Superintendent | 972-371-5447 | 972-822-1010 |
| Aaron Byrd | Drilling Engineer | 972-371-5267 | 214-507-2333 |
| | Construction Superintendent | | |
| | Construction Superintendent | | |
| <u>Artesia</u> | | | |
| Ambulance | | | 911 |
| State Police | | 575-746-2703 | |
| City Police | | 575-746-2703 | |
| Sheriff's Office | | 575-746-9888 | |
| Fire Department | | 575-746-2701 | |
| Local Emergency Planning Committee | | 575-746-2122 | |
| New Mexico Oil Conservation Division | | 575-748-1283 | |
| <u>Carlsbad</u> | | | |
| Ambulance | | | 911 |
| State Police | | 575-885-3137 | |
| Loving City Police | | 575-745-3511 | |
| Sheriff's Office | | 575-887-7551 | |
| Malaga Fire Department | | 575-745-2317 | |
| Local Emergency Planning Committee | | 575-885-3581 | |
| <u>Santa Fe</u> | | | |
| New Mexico Emergency Response Commission (Santa Fe) | | 505-476-9600 | |
| New Mexico Emergency Response Commission (Santa Fe) 24 hrs | | 505-827-9126 | |
| New Mexico State Emergency Operations Center | | 505-476-9635 | |
| <u>National</u> | | | |
| Carlsbad BLM | | 575-234-5972 | |
| National Emergency Response Center (Washington, D.C.) | | 800-424-8802 | |
| <u>Medical</u> | | | |
| Flight for Life- 4000 24th St.; Lubbock, TX | | 806-743-9911 | |
| Aerocare- R3, Box 49F; Lubbock, TX | | 806-747-8923 | |
| Med Flight Air Amb- 2301 Yale Blvd S.E., D3; Albuquerque, NM | | 505-842-4433 | |
| SB Air Med Service- 2505 Clark Carr Loop S.E.; Albuquerque, NM | | 505-842-4949 | |
| <u>Other</u> | | | |
| Boots & Coots IWC | | 800-256-9688 | or 281-931-8884 |
| Cudd Pressure Control | | 432-699-0139 | or 432-563-3356 |
| Halliburton | | 575-746-2757 | |
| B.J. Services | | 575-746-3569 | |

H2S Rig Diagram

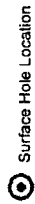
Warren Fed Com 201H
 SHL 170' FNL & 710' FWL
 25-23S-27E Eddy County, NM



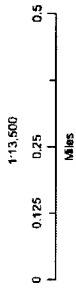
Matador Production Company

Warren Fed Com #201H
 H₂S Contingency Plan:
 1 Mile Radius Map

Section 25, Township 23S, Range 27E
 Eddy County, New Mexico



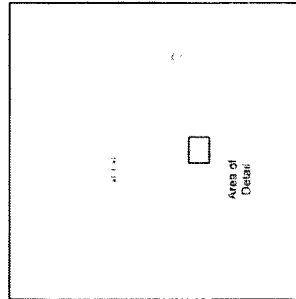
Surface Hole Location

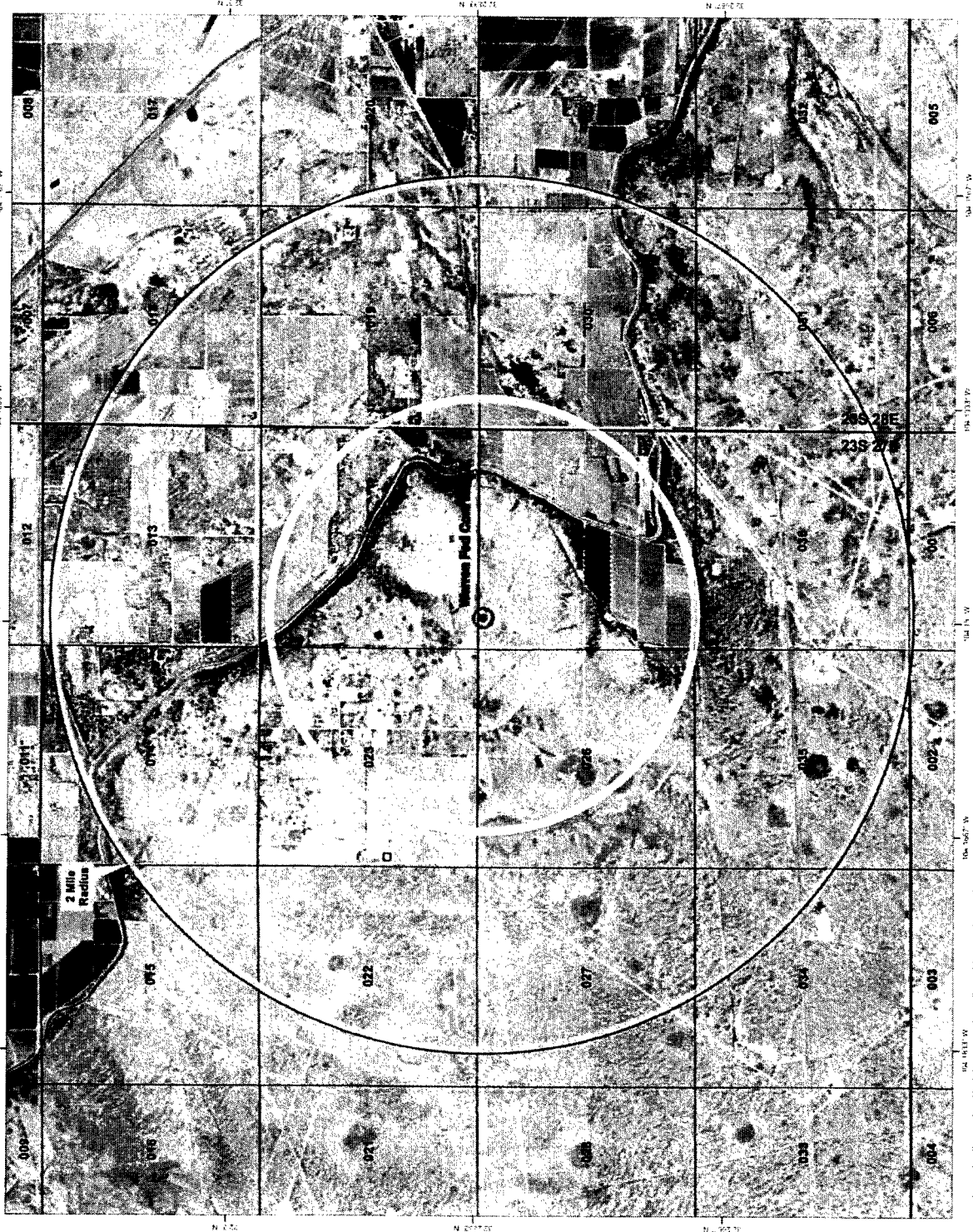


NAD 1927 New Mexico State Plane East
 FIPS 3001 Feet

PERMITS WEST

Prepared by Permits West, Inc., February 7, 2017
 for Matador Production Company



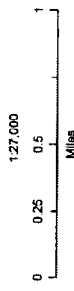


Matador Production Company

Warren Fed Com #201H
 H+S Contingency Plan:
 2 Mile Radius Map

Section 25, Township 23S, Range 27E
 Eddy County, New Mexico

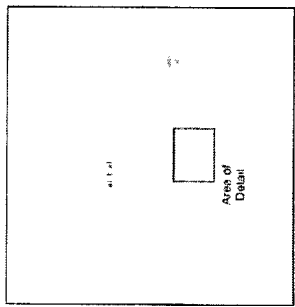
⊙ Surface Hole Location



NAD 1927 New Mexico State Plane East
 FIPS 3001 Feet

PERMITS WEST

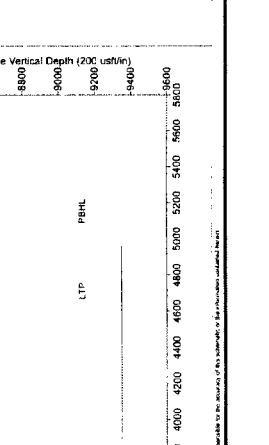
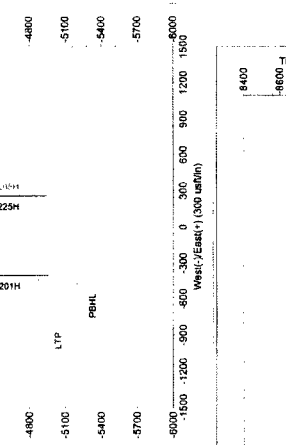
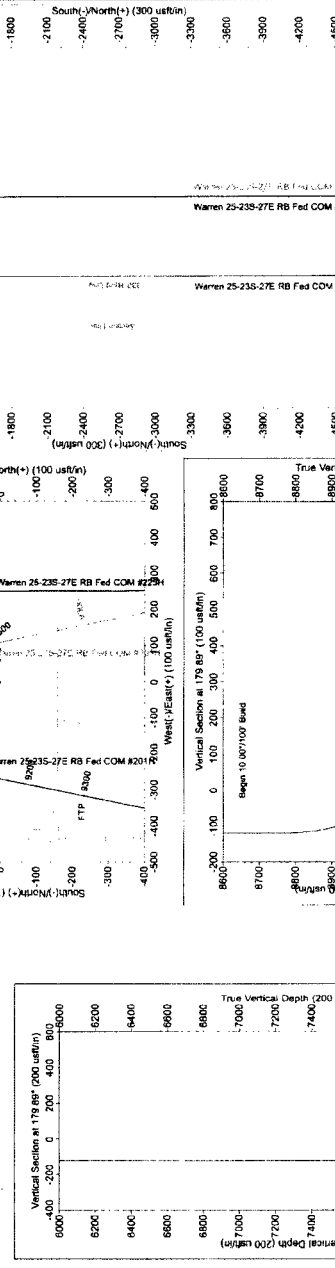
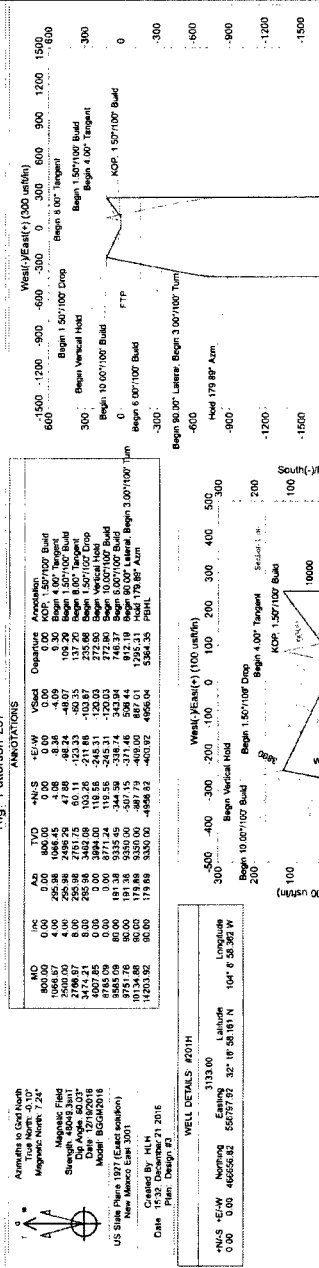
Prepared by Permits West, Inc., February 7, 2017
 for Matador Production Company





Company: Mañador Resources
 Site: Warren 25-235-27E RB Fed COM
 Well: #201H
 Project: Eddy County, New Mexico (NAD 27)
 Rig: Patterson Z97

Annotations
 Arrivals to Grid North
 Magnetic North: 7.24°
 Magnetic Field
 Strength: 45093.3 nT
 Declination: 171.02011
 Model: IGRF2015
 US State Plane 1977 (Eddy County)
 New Mexico State 3001
 Zone: 18N
 Datum: NAD83
 Created By: JHL
 Date: 2/21/2016
 Plan: Design B3



Vertical Section at 179.89° (200 usft/in)
 Vertical Section at 179.89° (100 usft/in)
 Vertical Section at 179.89° (50 usft/in)

Annotations:
 Begin 10.007100' Build
 Begin 1.507100' Build
 Begin 8.007 Target
 Begin 90.00° Lateral, Begin 3.007100' Turn
 Head 179.89° Azim

Warren 25-235-27E RB Fed COM #201H

Target cas 3000 usft @ 9.99° Dip
 Vertical Section at 179.89° (200 usft/in)

This document is intended to be a guide only and does not constitute a contract. The user of this document is responsible for verifying the accuracy of the data and the appropriateness of the information for their intended use. The user of this document is responsible for obtaining the necessary permits and approvals for the proposed operations.



MS Energy Services
Planning Report



| | | | |
|------------------|----------------------------------|-------------------------------------|------------------------------------|
| Database: | EDM Conroe | Local Co-ordinate Reference: | Well #201H |
| Company: | Matador Resources | TVD Reference: | WELL @ 3162.00usft (Patterson 297) |
| Project: | Eddy County, New Mexico (NAD 27) | MD Reference: | WELL @ 3162.00usft (Patterson 297) |
| Site: | Warren 25-23S-27E RB Fed COM | North Reference: | Grid |
| Well: | #201H | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Design #3 | | |

| | | | |
|--------------------|--------------------------------------|----------------------|----------------|
| Project | Eddy County, New Mexico (NAD 27) | | |
| Map System: | US State Plane 1927 (Exact solution) | System Datum: | Mean Sea Level |
| Geo Datum: | NAD 1927 (NADCON CONUS) | | |
| Map Zone: | New Mexico East 3001 | | |

| | | | | | |
|-----------------------------|--------------|-----------------|----------------------------|-----------------|------------------------------------|
| Well | #201H | | | | |
| Well Position | +N/-S | 466,656.82 usft | Northing: | 466,656.82 usft | Latitude: 32° 16' 58.161 N |
| | +E/-W | 556,797.92 usft | Easting: | 556,797.92 usft | Longitude: 104° 8' 58.362 W |
| Position Uncertainty | 0.00 usft | | Wellhead Elevation: | 3,133.00 usft | |

| | | | | | |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | Wellbore #1 | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | BGGM2016 | 12/19/2016 | 7.33 | 60.03 | 48,049 |

| | | | | |
|--------------------------|--------------------------------|---------------------|----------------------|----------------------|
| Design | Design #3 | | | |
| Audit Notes: | | | | |
| Version: | Phase: | PROTOTYPE | Tie On Depth: | 0.00 |
| Vertical Section: | Depth From (TVD) (usft) | +N/-S (usft) | +E/-W (usft) | Direction (°) |
| | 0.00 | 0.00 | 0.00 | 179.89 |

| | | | | |
|---------------------------------|------------------------|-----------------------------------|------------------|---------------------|
| Plan Survey Tool Program | Date | 12/21/2016 | | |
| Depth From (usft) | Depth To (usft) | Survey (Wellbore) | Tool Name | Remarks |
| 1 | 0.00 | 14,203.86 Design #3 (Wellbore #1) | MWD | OWSG MWD - Standard |

| Plan Sections | | | | | | | | | | |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|------------------------|-----------------------|---------|--------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) | TFO (°) | Target |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 800.00 | 0.00 | 0.00 | 800.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1,066.67 | 4.00 | 295.98 | 1,066.45 | 4.08 | -8.36 | 1.50 | 1.50 | 0.00 | 295.98 | VP - Warren 25-23S |
| 2,500.00 | 4.00 | 295.98 | 2,496.29 | 47.88 | -98.24 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 2,766.97 | 8.00 | 295.98 | 2,761.75 | 60.11 | -123.33 | 1.50 | 1.50 | 0.00 | 0.00 | |
| 3,474.21 | 8.00 | 295.98 | 3,462.09 | 103.26 | -211.86 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 4,007.85 | 0.00 | 0.00 | 3,994.00 | 119.56 | -245.32 | 1.50 | -1.50 | 0.00 | 180.00 | VP - Warren 25-23S |
| 8,785.09 | 0.00 | 0.00 | 8,771.24 | 119.56 | -245.32 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 9,585.09 | 80.00 | 191.38 | 9,335.49 | -344.59 | -338.74 | 10.00 | 10.00 | 0.00 | 191.38 | |
| 9,751.76 | 90.00 | 191.38 | 9,350.00 | -507.15 | -371.46 | 6.00 | 6.00 | 0.00 | 0.00 | |
| 10,134.88 | 90.00 | 179.89 | 9,350.00 | -887.79 | -409.00 | 3.00 | 0.00 | -3.00 | -90.00 | |
| 14,203.92 | 90.00 | 179.89 | 9,350.00 | -4,956.82 | -400.92 | 0.00 | 0.00 | 0.00 | 0.00 | PBHL - Warren 25- |



MS Energy Services
Planning Report



Database: EDM Conroe
Company: Matador Resources
Project: Eddy County, New Mexico (NAD 27)
Site: Warren 25-23S-27E RB Fed COM
Well: #201H
Wellbore: Wellbore #1
Design: Design #3

Local Co-ordinate Reference: Well #201H
TVD Reference: WELL @ 3162.00usft (Patterson 297)
MD Reference: WELL @ 3162.00usft (Patterson 297)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey

Table with 11 columns: Measured Depth (usft), Inclination (°), Azimuth (°), Vertical Depth (usft), +N/-S (usft), +E/-W (usft), Vertical Section (usft), Dogleg Rate (°/100usft), Build Rate (°/100usft), Turn Rate (°/100usft). Rows include various depth intervals and build/drop rates.



MS Energy Services

Planning Report



Database: EDM Conroe
Company: Matador Resources
Project: Eddy County, New Mexico (NAD 27)
Site: Warren 25-23S-27E RB Fed COM
Well: #201H
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TVD Reference: WELL @ 3162.00usft (Patterson 297)
MD Reference: WELL @ 3162.00usft (Patterson 297)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
|--------------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 4,400.00 | 0.00 | 0.00 | 4,386.15 | 119.56 | -245.32 | -120.03 | 0.00 | 0.00 | 0.00 |
| 4,500.00 | 0.00 | 0.00 | 4,486.15 | 119.56 | -245.32 | -120.03 | 0.00 | 0.00 | 0.00 |
| 4,600.00 | 0.00 | 0.00 | 4,586.15 | 119.56 | -245.32 | -120.03 | 0.00 | 0.00 | 0.00 |
| 4,700.00 | 0.00 | 0.00 | 4,686.15 | 119.56 | -245.32 | -120.03 | 0.00 | 0.00 | 0.00 |
| 4,800.00 | 0.00 | 0.00 | 4,786.15 | 119.56 | -245.32 | -120.03 | 0.00 | 0.00 | 0.00 |
| 4,900.00 | 0.00 | 0.00 | 4,886.15 | 119.56 | -245.32 | -120.03 | 0.00 | 0.00 | 0.00 |
| 5,000.00 | 0.00 | 0.00 | 4,986.15 | 119.56 | -245.32 | -120.03 | 0.00 | 0.00 | 0.00 |
| 5,100.00 | 0.00 | 0.00 | 5,086.15 | 119.56 | -245.32 | -120.03 | 0.00 | 0.00 | 0.00 |
| 5,200.00 | 0.00 | 0.00 | 5,186.15 | 119.56 | -245.32 | -120.03 | 0.00 | 0.00 | 0.00 |
| 5,300.00 | 0.00 | 0.00 | 5,286.15 | 119.56 | -245.32 | -120.03 | 0.00 | 0.00 | 0.00 |
| 5,400.00 | 0.00 | 0.00 | 5,386.15 | 119.56 | -245.32 | -120.03 | 0.00 | 0.00 | 0.00 |
| 5,500.00 | 0.00 | 0.00 | 5,486.15 | 119.56 | -245.32 | -120.03 | 0.00 | 0.00 | 0.00 |
| 5,600.00 | 0.00 | 0.00 | 5,586.15 | 119.56 | -245.32 | -120.03 | 0.00 | 0.00 | 0.00 |
| 5,700.00 | 0.00 | 0.00 | 5,686.15 | 119.56 | -245.32 | -120.03 | 0.00 | 0.00 | 0.00 |
| 5,800.00 | 0.00 | 0.00 | 5,786.15 | 119.56 | -245.32 | -120.03 | 0.00 | 0.00 | 0.00 |
| 5,900.00 | 0.00 | 0.00 | 5,886.15 | 119.56 | -245.32 | -120.03 | 0.00 | 0.00 | 0.00 |
| 6,000.00 | 0.00 | 0.00 | 5,986.15 | 119.56 | -245.32 | -120.03 | 0.00 | 0.00 | 0.00 |
| 6,100.00 | 0.00 | 0.00 | 6,086.15 | 119.56 | -245.32 | -120.03 | 0.00 | 0.00 | 0.00 |
| 6,200.00 | 0.00 | 0.00 | 6,186.15 | 119.56 | -245.32 | -120.03 | 0.00 | 0.00 | 0.00 |
| 6,300.00 | 0.00 | 0.00 | 6,286.15 | 119.56 | -245.32 | -120.03 | 0.00 | 0.00 | 0.00 |
| 6,400.00 | 0.00 | 0.00 | 6,386.15 | 119.56 | -245.32 | -120.03 | 0.00 | 0.00 | 0.00 |
| 6,500.00 | 0.00 | 0.00 | 6,486.15 | 119.56 | -245.32 | -120.03 | 0.00 | 0.00 | 0.00 |
| 6,600.00 | 0.00 | 0.00 | 6,586.15 | 119.56 | -245.32 | -120.03 | 0.00 | 0.00 | 0.00 |
| 6,700.00 | 0.00 | 0.00 | 6,686.15 | 119.56 | -245.32 | -120.03 | 0.00 | 0.00 | 0.00 |
| 6,800.00 | 0.00 | 0.00 | 6,786.15 | 119.56 | -245.32 | -120.03 | 0.00 | 0.00 | 0.00 |
| 6,900.00 | 0.00 | 0.00 | 6,886.15 | 119.56 | -245.32 | -120.03 | 0.00 | 0.00 | 0.00 |
| 7,000.00 | 0.00 | 0.00 | 6,986.15 | 119.56 | -245.32 | -120.03 | 0.00 | 0.00 | 0.00 |
| 7,100.00 | 0.00 | 0.00 | 7,086.15 | 119.56 | -245.32 | -120.03 | 0.00 | 0.00 | 0.00 |
| 7,200.00 | 0.00 | 0.00 | 7,186.15 | 119.56 | -245.32 | -120.03 | 0.00 | 0.00 | 0.00 |
| 7,300.00 | 0.00 | 0.00 | 7,286.15 | 119.56 | -245.32 | -120.03 | 0.00 | 0.00 | 0.00 |
| 7,400.00 | 0.00 | 0.00 | 7,386.15 | 119.56 | -245.32 | -120.03 | 0.00 | 0.00 | 0.00 |
| 7,500.00 | 0.00 | 0.00 | 7,486.15 | 119.56 | -245.32 | -120.03 | 0.00 | 0.00 | 0.00 |
| 7,600.00 | 0.00 | 0.00 | 7,586.15 | 119.56 | -245.32 | -120.03 | 0.00 | 0.00 | 0.00 |
| 7,700.00 | 0.00 | 0.00 | 7,686.15 | 119.56 | -245.32 | -120.03 | 0.00 | 0.00 | 0.00 |
| 7,800.00 | 0.00 | 0.00 | 7,786.15 | 119.56 | -245.32 | -120.03 | 0.00 | 0.00 | 0.00 |
| 7,900.00 | 0.00 | 0.00 | 7,886.15 | 119.56 | -245.32 | -120.03 | 0.00 | 0.00 | 0.00 |
| 8,000.00 | 0.00 | 0.00 | 7,986.15 | 119.56 | -245.32 | -120.03 | 0.00 | 0.00 | 0.00 |
| 8,100.00 | 0.00 | 0.00 | 8,086.15 | 119.56 | -245.32 | -120.03 | 0.00 | 0.00 | 0.00 |
| 8,200.00 | 0.00 | 0.00 | 8,186.15 | 119.56 | -245.32 | -120.03 | 0.00 | 0.00 | 0.00 |
| 8,300.00 | 0.00 | 0.00 | 8,286.15 | 119.56 | -245.32 | -120.03 | 0.00 | 0.00 | 0.00 |
| 8,400.00 | 0.00 | 0.00 | 8,386.15 | 119.56 | -245.32 | -120.03 | 0.00 | 0.00 | 0.00 |
| 8,500.00 | 0.00 | 0.00 | 8,486.15 | 119.56 | -245.32 | -120.03 | 0.00 | 0.00 | 0.00 |
| 8,600.00 | 0.00 | 0.00 | 8,586.15 | 119.56 | -245.32 | -120.03 | 0.00 | 0.00 | 0.00 |
| 8,700.00 | 0.00 | 0.00 | 8,686.15 | 119.56 | -245.32 | -120.03 | 0.00 | 0.00 | 0.00 |
| 8,785.09 | 0.00 | 0.00 | 8,771.24 | 119.56 | -245.32 | -120.03 | 0.00 | 0.00 | 0.00 |
| Begin 10.00°/100' Build | | | | | | | | | |
| 8,800.00 | 1.49 | 191.38 | 8,786.15 | 119.37 | -245.35 | -119.84 | 10.00 | 10.00 | 0.00 |
| 8,850.00 | 6.49 | 191.38 | 8,836.01 | 115.96 | -246.04 | -116.44 | 10.00 | 10.00 | 0.00 |
| 8,900.00 | 11.49 | 191.38 | 8,885.38 | 108.31 | -247.58 | -108.78 | 10.00 | 10.00 | 0.00 |
| 8,950.00 | 16.49 | 191.38 | 8,933.88 | 96.46 | -249.97 | -96.94 | 10.00 | 10.00 | 0.00 |
| 9,000.00 | 21.49 | 191.38 | 8,981.15 | 80.51 | -253.17 | -81.00 | 10.00 | 10.00 | 0.00 |
| 9,050.00 | 26.49 | 191.38 | 9,026.81 | 60.59 | -257.19 | -61.08 | 10.00 | 10.00 | 0.00 |
| 9,100.00 | 31.49 | 191.38 | 9,070.53 | 36.84 | -261.97 | -37.34 | 10.00 | 10.00 | 0.00 |
| 9,150.00 | 36.49 | 191.38 | 9,111.98 | 9.44 | -267.48 | -9.96 | 10.00 | 10.00 | 0.00 |



MS Energy Services Planning Report



Database: EDM Conroe
Company: Matador Resources
Project: Eddy County, New Mexico (NAD 27)
Site: Warren 25-23S-27E RB Fed COM
Well: #201H
Wellbore: Wellbore #1
Design: Design #3

Local Co-ordinate Reference: Well #201H
TVD Reference: WELL @ 3162.00usft (Patterson 297)
MD Reference: WELL @ 3162.00usft (Patterson 297)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
|--|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 9,200.00 | 41.49 | 191.38 | 9,150.83 | -21.39 | -273.68 | 20.86 | 10.00 | 10.00 | 0.00 |
| 9,250.00 | 46.49 | 191.38 | 9,186.79 | -55.42 | -280.53 | 54.88 | 10.00 | 10.00 | 0.00 |
| 9,300.00 | 51.49 | 191.38 | 9,219.59 | -92.40 | -287.98 | 91.84 | 10.00 | 10.00 | 0.00 |
| 9,350.00 | 56.49 | 191.38 | 9,248.97 | -132.04 | -295.96 | 131.47 | 10.00 | 10.00 | 0.00 |
| 9,400.00 | 61.49 | 191.38 | 9,274.72 | -174.03 | -304.41 | 173.45 | 10.00 | 10.00 | 0.00 |
| 9,450.00 | 66.49 | 191.38 | 9,296.64 | -218.07 | -313.27 | 217.47 | 10.00 | 10.00 | 0.00 |
| 9,500.00 | 71.49 | 191.38 | 9,314.56 | -263.82 | -322.48 | 263.20 | 10.00 | 10.00 | 0.00 |
| 9,550.00 | 76.49 | 191.38 | 9,328.35 | -310.92 | -331.96 | 310.28 | 10.00 | 10.00 | 0.00 |
| 9,585.09 | 80.00 | 191.38 | 9,335.49 | -344.59 | -338.74 | 343.94 | 10.00 | 10.00 | 0.00 |
| Begin 6.00°/100' Build | | | | | | | | | |
| 9,600.00 | 80.89 | 191.38 | 9,337.97 | -359.01 | -341.64 | 358.35 | 6.00 | 6.00 | 0.00 |
| 9,650.00 | 83.89 | 191.38 | 9,344.58 | -407.59 | -351.42 | 406.91 | 6.00 | 6.00 | 0.00 |
| 9,700.00 | 86.89 | 191.38 | 9,348.60 | -456.44 | -361.25 | 455.74 | 6.00 | 6.00 | 0.00 |
| 9,751.76 | 90.00 | 191.38 | 9,350.00 | -507.15 | -371.46 | 506.44 | 6.00 | 6.00 | 0.00 |
| Begin 90.00° Lateral; Begin 3.00°/100' Turn | | | | | | | | | |
| 9,800.00 | 90.00 | 189.93 | 9,350.00 | -554.56 | -380.38 | 553.83 | 3.00 | 0.00 | -3.00 |
| 9,900.00 | 90.00 | 186.93 | 9,350.00 | -653.47 | -395.04 | 652.71 | 3.00 | 0.00 | -3.00 |
| 10,000.00 | 90.00 | 183.93 | 9,350.00 | -753.01 | -404.51 | 752.23 | 3.00 | 0.00 | -3.00 |
| 10,100.00 | 90.00 | 180.93 | 9,350.00 | -852.91 | -408.75 | 852.12 | 3.00 | 0.00 | -3.00 |
| 10,134.88 | 90.00 | 179.89 | 9,350.00 | -887.79 | -409.00 | 887.01 | 3.00 | 0.00 | -3.00 |
| Hold 179.89° Azm | | | | | | | | | |
| 10,200.00 | 90.00 | 179.89 | 9,350.00 | -952.91 | -408.87 | 952.12 | 0.00 | 0.00 | 0.00 |
| 10,300.00 | 90.00 | 179.89 | 9,350.00 | -1,052.91 | -408.67 | 1,052.12 | 0.00 | 0.00 | 0.00 |
| 10,400.00 | 90.00 | 179.89 | 9,350.00 | -1,152.91 | -408.47 | 1,152.12 | 0.00 | 0.00 | 0.00 |
| 10,500.00 | 90.00 | 179.89 | 9,350.00 | -1,252.91 | -408.27 | 1,252.12 | 0.00 | 0.00 | 0.00 |
| 10,600.00 | 90.00 | 179.89 | 9,350.00 | -1,352.91 | -408.08 | 1,352.12 | 0.00 | 0.00 | 0.00 |
| 10,700.00 | 90.00 | 179.89 | 9,350.00 | -1,452.91 | -407.88 | 1,452.12 | 0.00 | 0.00 | 0.00 |
| 10,800.00 | 90.00 | 179.89 | 9,350.00 | -1,552.91 | -407.68 | 1,552.12 | 0.00 | 0.00 | 0.00 |
| 10,900.00 | 90.00 | 179.89 | 9,350.00 | -1,652.91 | -407.48 | 1,652.12 | 0.00 | 0.00 | 0.00 |
| 11,000.00 | 90.00 | 179.89 | 9,350.00 | -1,752.91 | -407.28 | 1,752.12 | 0.00 | 0.00 | 0.00 |
| 11,100.00 | 90.00 | 179.89 | 9,350.00 | -1,852.91 | -407.08 | 1,852.12 | 0.00 | 0.00 | 0.00 |
| 11,200.00 | 90.00 | 179.89 | 9,350.00 | -1,952.91 | -406.88 | 1,952.12 | 0.00 | 0.00 | 0.00 |
| 11,300.00 | 90.00 | 179.89 | 9,350.00 | -2,052.91 | -406.69 | 2,052.12 | 0.00 | 0.00 | 0.00 |
| 11,400.00 | 90.00 | 179.89 | 9,350.00 | -2,152.91 | -406.49 | 2,152.12 | 0.00 | 0.00 | 0.00 |
| 11,500.00 | 90.00 | 179.89 | 9,350.00 | -2,252.91 | -406.29 | 2,252.12 | 0.00 | 0.00 | 0.00 |
| 11,600.00 | 90.00 | 179.89 | 9,350.00 | -2,352.90 | -406.09 | 2,352.12 | 0.00 | 0.00 | 0.00 |
| 11,700.00 | 90.00 | 179.89 | 9,350.00 | -2,452.90 | -405.89 | 2,452.12 | 0.00 | 0.00 | 0.00 |
| 11,800.00 | 90.00 | 179.89 | 9,350.00 | -2,552.90 | -405.69 | 2,552.12 | 0.00 | 0.00 | 0.00 |
| 11,900.00 | 90.00 | 179.89 | 9,350.00 | -2,652.90 | -405.49 | 2,652.12 | 0.00 | 0.00 | 0.00 |
| 12,000.00 | 90.00 | 179.89 | 9,350.00 | -2,752.90 | -405.29 | 2,752.12 | 0.00 | 0.00 | 0.00 |
| 12,100.00 | 90.00 | 179.89 | 9,350.00 | -2,852.90 | -405.10 | 2,852.12 | 0.00 | 0.00 | 0.00 |
| 12,200.00 | 90.00 | 179.89 | 9,350.00 | -2,952.90 | -404.90 | 2,952.12 | 0.00 | 0.00 | 0.00 |
| 12,300.00 | 90.00 | 179.89 | 9,350.00 | -3,052.90 | -404.70 | 3,052.12 | 0.00 | 0.00 | 0.00 |
| 12,400.00 | 90.00 | 179.89 | 9,350.00 | -3,152.90 | -404.50 | 3,152.12 | 0.00 | 0.00 | 0.00 |
| 12,500.00 | 90.00 | 179.89 | 9,350.00 | -3,252.90 | -404.30 | 3,252.12 | 0.00 | 0.00 | 0.00 |
| 12,600.00 | 90.00 | 179.89 | 9,350.00 | -3,352.90 | -404.10 | 3,352.12 | 0.00 | 0.00 | 0.00 |
| 12,700.00 | 90.00 | 179.89 | 9,350.00 | -3,452.90 | -403.90 | 3,452.12 | 0.00 | 0.00 | 0.00 |
| 12,800.00 | 90.00 | 179.89 | 9,350.00 | -3,552.90 | -403.71 | 3,552.12 | 0.00 | 0.00 | 0.00 |
| 12,900.00 | 90.00 | 179.89 | 9,350.00 | -3,652.90 | -403.51 | 3,652.12 | 0.00 | 0.00 | 0.00 |
| 13,000.00 | 90.00 | 179.89 | 9,350.00 | -3,752.90 | -403.31 | 3,752.12 | 0.00 | 0.00 | 0.00 |
| 13,100.00 | 90.00 | 179.89 | 9,350.00 | -3,852.90 | -403.11 | 3,852.12 | 0.00 | 0.00 | 0.00 |
| 13,200.00 | 90.00 | 179.89 | 9,350.00 | -3,952.90 | -402.91 | 3,952.12 | 0.00 | 0.00 | 0.00 |
| 13,300.00 | 90.00 | 179.89 | 9,350.00 | -4,052.90 | -402.71 | 4,052.12 | 0.00 | 0.00 | 0.00 |



MS Energy Services
Planning Report



Database: EDM Conroe
Company: Matador Resources
Project: Eddy County, New Mexico (NAD 27)
Site: Warren 25-23S-27E RB Fed COM
Well: #201H
Wellbore: Wellbore #1
Design: Design #3

Local Co-ordinate Reference: Well #201H
TVD Reference: WELL @ 3162.00usft (Patterson 297)
MD Reference: WELL @ 3162.00usft (Patterson 297)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 13,400.00 | 90.00 | 179.89 | 9,350.00 | -4,152.90 | -402.51 | 4,152.12 | 0.00 | 0.00 | 0.00 |
| 13,500.00 | 90.00 | 179.89 | 9,350.00 | -4,252.90 | -402.32 | 4,252.12 | 0.00 | 0.00 | 0.00 |
| 13,600.00 | 90.00 | 179.89 | 9,350.00 | -4,352.90 | -402.12 | 4,352.12 | 0.00 | 0.00 | 0.00 |
| 13,700.00 | 90.00 | 179.89 | 9,350.00 | -4,452.90 | -401.92 | 4,452.12 | 0.00 | 0.00 | 0.00 |
| 13,800.00 | 90.00 | 179.89 | 9,350.00 | -4,552.90 | -401.72 | 4,552.12 | 0.00 | 0.00 | 0.00 |
| 13,900.00 | 90.00 | 179.89 | 9,350.00 | -4,652.90 | -401.52 | 4,652.12 | 0.00 | 0.00 | 0.00 |
| 14,000.00 | 90.00 | 179.89 | 9,350.00 | -4,752.90 | -401.32 | 4,752.12 | 0.00 | 0.00 | 0.00 |
| 14,100.00 | 90.00 | 179.89 | 9,350.00 | -4,852.90 | -401.12 | 4,852.12 | 0.00 | 0.00 | 0.00 |
| 14,203.92 | 90.00 | 179.89 | 9,350.00 | -4,956.82 | -400.92 | 4,956.04 | 0.00 | 0.00 | 0.00 |
| PBHL | | | | | | | | | |

Design Targets

Target Name

| - hit/miss target - Shape | Dip Angle (°) | Dip Dir. (°) | TVD (usft) | +N/-S (usft) | +E/-W (usft) | Northing (usft) | Easting (usft) | Latitude | Longitude |
|---|---------------|--------------|------------|--------------|--------------|-----------------|----------------|------------------|-----------------|
| VP - Warren 25-23S-2 - plan hits target center - Point | 0.00 | 0.00 | 3,994.00 | 119.56 | -245.32 | 466,776.38 | 556,552.60 | 32° 16' 59.349 N | 104° 9' 1.217 W |
| FTP - Warren 25-23S- - plan misses target center by 123.79usft at 9440.09usft MD (9292.61 TVD, -209.20 N, -311.49 E) - Point | 0.00 | 0.00 | 9,350.00 | -160.82 | -409.92 | 466,496.00 | 556,388.00 | 32° 16' 56.577 N | 104° 9' 3.140 W |
| LTP - Warren 25-23S- - plan misses target center by 13.92usft at 14100.00usft MD (9350.00 TVD, -4852.90 N, -401.12 E) - Point | 0.00 | 0.00 | 9,350.00 | -4,866.82 | -400.92 | 461,790.00 | 556,397.00 | 32° 16' 10.005 N | 104° 9' 3.128 W |
| PBHL - Warren 25-23 - plan hits target center - Point | 0.00 | 0.00 | 9,350.00 | -4,956.82 | -400.92 | 461,700.00 | 556,397.00 | 32° 16' 9.114 N | 104° 9' 3.130 W |

Casing Points

| Measured Depth (usft) | Vertical Depth (usft) | Name | Casing Diameter (") | Hole Diameter (") |
|-----------------------|-----------------------|---------|---------------------|-------------------|
| 480.00 | 480.00 | 13 3/8" | 13-3/8 | 17-1/2 |
| 2,450.00 | 2,446.41 | 9 5/8" | 9-5/8 | 12-1/4 |
| 9,585.09 | 9,335.49 | 7" | 7 | 7-1/2 |



MS Energy Services
Planning Report



Database: EDM Conroe
Company: Matador Resources
Project: Eddy County, New Mexico (NAD 27)
Site: Warren 25-23S-27E RB Fed COM
Well: #201H
Wellbore: Wellbore #1
Design: Design #3

Local Co-ordinate Reference: Well #201H
TVD Reference: WELL @ 3162.00usft (Patterson 297)
MD Reference: WELL @ 3162.00usft (Patterson 297)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Plan Annotations

| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates | | Comment |
|-----------------------|-----------------------|-------------------|--------------|---|
| | | +N/-S (usft) | +E/-W (usft) | |
| 800.00 | 800.00 | 0.00 | 0.00 | KOP, 1.50°/100' Build |
| 1,066.67 | 1,066.45 | 4.08 | -8.36 | Begin 4.00° Tangent |
| 2,500.00 | 2,496.29 | 47.88 | -98.24 | Begin 1.50°/100' Build |
| 2,766.97 | 2,761.75 | 60.11 | -123.33 | Begin 8.00° Tangent |
| 3,474.21 | 3,462.09 | 103.26 | -211.86 | Begin 1.50°/100' Drop |
| 4,007.85 | 3,994.00 | 119.56 | -245.32 | Begin Vertical Hold |
| 8,785.09 | 8,771.24 | 119.56 | -245.32 | Begin 10.00°/100' Build |
| 9,585.09 | 9,335.49 | -344.59 | -338.74 | Begin 6.00°/100' Build |
| 9,751.76 | 9,350.00 | -507.15 | -371.46 | Begin 90.00° Lateral; Begin 3.00°/100' Turn |
| 10,134.88 | 9,350.00 | -887.79 | -409.00 | Hold 179.89° Azm |
| 14,203.92 | 9,350.00 | -4,956.82 | -400.92 | PBHL |



Matador Resources

**Eddy County, New Mexico (NAD 27)
Warren 25-23S-27E RB Fed COM
#201H**

**Wellbore #1
Design #3**

Anticollision Report

21 December, 2016



MS Energy Services
Anticollision Report



Company: Matador Resources
Project: Eddy County, New Mexico (NAD 27)
Reference Site: Warren 25-23S-27E RB Fed COM
Site Error: 0.00 usft
Reference Well: #201H
Well Error: 0.00 usft
Reference Wellbore: Wellbore #1
Reference Design: Design #3

Local Co-ordinate Reference: Well #201H
TVD Reference: WELL @ 3162.00usft (Patterson 297)
MD Reference: WELL @ 3162.00usft (Patterson 297)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: EDM Conroe
Offset TVD Reference: Offset Datum

| | |
|-------------------------------------|---|
| Reference | Design #3 |
| Filter type: | NO GLOBAL FILTER: Using user defined selection & filtering criteria |
| Interpolation Method: | MD + Stations Interval 100.00usft |
| Depth Range: | Unlimited |
| Results Limited by: | Maximum center-center distance of 10,000.00 u |
| Warning Levels Evaluated at: | 2.00 Sigma |
| Error Model: | ISCWSA |
| Scan Method: | Closest Approach 3D |
| Error Surface: | Pedal Curve |
| Casing Method: | Not applied |

Survey Tool Program Date 12/21/2016

| From (usft) | To (usft) | Survey (Wellbore) | Tool Name | Description |
|-------------|-----------|-------------------------|-----------|---------------------|
| 0.00 | 14,203.86 | Design #3 (Wellbore #1) | MWD | OWSG MWD - Standard |

Summary

| Site Name | Reference Measured Depth (usft) | Offset Measured Depth (usft) | Distance Between Centres (usft) | Distance Between Ellipses (usft) | Separation Factor | Warning |
|---------------------------------|---------------------------------|------------------------------|---------------------------------|----------------------------------|-------------------|---------|
| Offset Well - Wellbore - Design | | | | | | |
| Warren 25-23S-27E RB Fed COM | | | | | | |
| #121H - Wellbore #1 - Design #3 | 800.00 | 800.00 | 30.00 | 24.73 | 5.690 CC | |
| #121H - Wellbore #1 - Design #3 | 900.00 | 900.53 | 30.29 | 24.31 | 5.062 ES | |
| #121H - Wellbore #1 - Design #3 | 7,100.00 | 7,090.35 | 165.32 | 115.18 | 3.297 SF | |
| #203H - Wellbore #1 - Design #1 | 9,108.61 | 14,238.69 | 2,531.34 | 2,404.07 | 19.890 CC, ES | |
| #203H - Wellbore #1 - Design #1 | 9,250.00 | 14,242.22 | 2,538.51 | 2,410.52 | 19.834 SF | |
| #205H - Wellbore #1 - Design #3 | 800.00 | 800.00 | 60.04 | 54.77 | 11.386 CC, ES | |
| #205H - Wellbore #1 - Design #3 | 14,203.05 | 14,193.24 | 660.02 | 483.07 | 3.730 SF | |
| #206H - Wellbore #1 - Design #1 | 9,152.49 | 14,253.56 | 1,863.82 | 1,736.56 | 14.645 CC, ES | |
| #206H - Wellbore #1 - Design #1 | 9,250.00 | 14,253.56 | 1,867.98 | 1,739.94 | 14.588 SF | |
| #221H - Wellbore #1 - Design #3 | 800.00 | 800.00 | 29.99 | 24.72 | 5.688 CC | |
| #221H - Wellbore #1 - Design #3 | 2,400.00 | 2,402.08 | 38.33 | 21.56 | 2.286 ES | |
| #221H - Wellbore #1 - Design #3 | 3,000.00 | 3,004.25 | 45.70 | 24.39 | 2.144 SF | |
| #225H - Wellbore #1 - Design #3 | 800.00 | 800.00 | 89.99 | 84.72 | 17.066 CC, ES | |
| #225H - Wellbore #1 - Design #3 | 8,900.00 | 8,907.85 | 497.42 | 434.42 | 7.895 SF | |

| Offset Design Warren 25-23S-27E RB Fed COM - #121H - Wellbore #1 - Design #3 | | | | | | | | | | | | | Offset Site Error: | 0.00 usft |
|--|-----------------------|-----------------------|-----------------------|------------------|---------------|------------------------|-------------------------------------|--------------|------------------------|-------------------------|---------------------------|-------------------|--------------------|-----------|
| Survey Program: 0-MWD | | | | | | | | | | | | | Offset Well Error: | 0.00 usft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning | |
| Measured Depth (usft) | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Azimuth from North (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 89.91 | 0.05 | 30.00 | 30.00 | | | | | |
| 100.00 | 100.00 | 100.00 | 100.00 | 0.13 | 0.13 | 89.91 | 0.05 | 30.00 | 30.00 | 29.75 | 0.25 | 117.879 | | |
| 200.00 | 200.00 | 200.00 | 200.00 | 0.49 | 0.49 | 89.91 | 0.05 | 30.00 | 30.00 | 29.03 | 0.97 | 30.884 | | |
| 300.00 | 300.00 | 300.00 | 300.00 | 0.84 | 0.84 | 89.91 | 0.05 | 30.00 | 30.00 | 28.31 | 1.69 | 17.769 | | |
| 400.00 | 400.00 | 400.00 | 400.00 | 1.20 | 1.20 | 89.91 | 0.05 | 30.00 | 30.00 | 27.60 | 2.41 | 12.473 | | |
| 500.00 | 500.00 | 500.00 | 500.00 | 1.56 | 1.56 | 89.91 | 0.05 | 30.00 | 30.00 | 26.88 | 3.12 | 9.609 | | |
| 600.00 | 600.00 | 600.00 | 600.00 | 1.92 | 1.92 | 89.91 | 0.05 | 30.00 | 30.00 | 26.16 | 3.84 | 7.815 | | |
| 700.00 | 700.00 | 700.00 | 700.00 | 2.28 | 2.28 | 89.91 | 0.05 | 30.00 | 30.00 | 25.45 | 4.56 | 6.585 | | |
| 800.00 | 800.00 | 800.00 | 800.00 | 2.64 | 2.64 | 89.91 | 0.05 | 30.00 | 30.00 | 24.73 | 5.27 | 5.690 CC | | |
| 900.00 | 899.99 | 900.53 | 900.52 | 2.99 | 2.99 | 89.16 | 1.02 | 29.11 | 30.29 | 24.31 | 5.98 | 5.062 ES | | |
| 1,000.00 | 999.91 | 1,001.05 | 1,000.96 | 3.34 | 3.35 | 86.98 | 3.94 | 26.42 | 31.19 | 24.50 | 6.69 | 4.663 | | |
| 1,066.67 | 1,065.45 | 1,068.04 | 1,067.82 | 3.58 | 3.59 | 84.85 | 6.96 | 23.64 | 32.16 | 25.00 | 7.16 | 4.492 | | |
| 1,100.00 | 1,099.70 | 1,101.36 | 1,101.06 | 3.70 | 3.71 | 83.72 | 8.67 | 22.06 | 32.74 | 25.34 | 7.40 | 4.426 | | |
| 1,200.00 | 1,199.46 | 1,201.33 | 1,200.78 | 4.06 | 4.07 | 80.57 | 13.81 | 17.34 | 34.55 | 26.44 | 8.11 | 4.260 | | |

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



MS Energy Services
Anticollision Report



Company: Matador Resources
Project: Eddy County, New Mexico (NAD 27)
Reference Site: Warren 25-23S-27E RB Fed COM
Site Error: 0.00 usft
Reference Well: #201H
Well Error: 0.00 usft
Reference Wellbore: Wellbore #1
Reference Design: Design #3

Local Co-ordinate Reference: Well #201H
TVD Reference: WELL @ 3162.00usft (Patterson 297)
MD Reference: WELL @ 3162.00usft (Patterson 297)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: EDM Conroe
Offset TVD Reference: Offset Datum

| Offset Design Warren 25-23S-27E RB Fed COM - #121H - Wellbore #1 - Design #3 | | | | | | | | | | | | | | Offset Site Error: | 0.00 usft |
|--|-----------------------|-----------------------|-----------------------|------------------|---------------|------------------------|------------------------------------|-------------|------------------------|-------------------------|---------------------------|-------------------|--|--------------------|-----------|
| Survey Program: 0-MWD | | | | | | | | | | | | | | Offset Well Error: | 0.00 usft |
| Reference | | Offset | | Semi Major Axis | | Distance | | | | | | | | Warning | |
| Measured Depth (usft) | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Azimuth from North (°) | Offset Wellbore Centre +N-S (usft) | +E-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | | | |
| 1,300.00 | 1,299.22 | 1,301.29 | 1,300.50 | 4.42 | 4.44 | 77.74 | 18.95 | 12.61 | 36.46 | 27.63 | 8.83 | 4.129 | | | |
| 1,400.00 | 1,398.97 | 1,401.26 | 1,400.23 | 4.78 | 4.80 | 75.20 | 24.08 | 7.88 | 38.45 | 28.89 | 9.55 | 4.025 | | | |
| 1,500.00 | 1,498.73 | 1,501.23 | 1,499.95 | 5.15 | 5.17 | 72.91 | 29.22 | 3.16 | 40.50 | 30.22 | 10.28 | 3.940 | | | |
| 1,600.00 | 1,598.48 | 1,601.19 | 1,599.67 | 5.52 | 5.53 | 70.85 | 34.35 | -1.57 | 42.62 | 31.61 | 11.01 | 3.872 | | | |
| 1,700.00 | 1,698.24 | 1,701.16 | 1,699.39 | 5.88 | 5.90 | 68.98 | 39.49 | -6.29 | 44.78 | 33.04 | 11.74 | 3.815 | | | |
| 1,800.00 | 1,798.00 | 1,801.13 | 1,799.12 | 6.25 | 6.27 | 67.29 | 44.62 | -11.02 | 46.99 | 34.52 | 12.47 | 3.768 | | | |
| 1,900.00 | 1,897.75 | 1,901.09 | 1,898.84 | 6.62 | 6.64 | 65.75 | 49.76 | -15.74 | 49.23 | 36.02 | 13.21 | 3.728 | | | |
| 2,000.00 | 1,997.51 | 2,001.06 | 1,998.56 | 6.99 | 7.01 | 64.35 | 54.89 | -20.47 | 51.51 | 37.57 | 13.94 | 3.695 | | | |
| 2,100.00 | 2,097.27 | 2,101.02 | 2,098.28 | 7.36 | 7.38 | 63.06 | 60.03 | -25.19 | 53.81 | 39.13 | 14.68 | 3.666 | | | |
| 2,200.00 | 2,197.02 | 2,200.99 | 2,198.01 | 7.73 | 7.75 | 61.89 | 65.17 | -29.92 | 56.14 | 40.73 | 15.42 | 3.642 | | | |
| 2,300.00 | 2,296.78 | 2,300.96 | 2,297.73 | 8.10 | 8.12 | 60.80 | 70.30 | -34.64 | 58.49 | 42.34 | 16.16 | 3.621 | | | |
| 2,400.00 | 2,396.54 | 2,400.92 | 2,397.45 | 8.47 | 8.49 | 59.80 | 75.44 | -39.37 | 60.87 | 43.97 | 16.90 | 3.602 | | | |
| 2,500.00 | 2,496.29 | 2,500.89 | 2,497.17 | 8.84 | 8.86 | 58.88 | 80.57 | -44.10 | 63.25 | 45.62 | 17.64 | 3.587 | | | |
| 2,600.00 | 2,595.95 | 2,600.84 | 2,596.88 | 9.22 | 9.23 | 58.98 | 85.71 | -48.82 | 66.36 | 47.98 | 18.38 | 3.611 | | | |
| 2,700.00 | 2,695.35 | 2,700.71 | 2,696.50 | 9.61 | 9.60 | 60.84 | 90.84 | -53.54 | 70.93 | 51.81 | 19.12 | 3.711 | | | |
| 2,766.97 | 2,761.75 | 2,767.51 | 2,763.15 | 9.87 | 9.85 | 62.86 | 94.27 | -56.70 | 74.89 | 55.28 | 19.61 | 3.819 | | | |
| 2,800.00 | 2,794.45 | 2,800.44 | 2,795.99 | 10.00 | 9.98 | 63.95 | 95.96 | -58.26 | 77.05 | 57.20 | 19.85 | 3.882 | | | |
| 2,900.00 | 2,893.48 | 2,900.13 | 2,895.44 | 10.40 | 10.35 | 66.90 | 101.08 | -62.97 | 83.75 | 63.17 | 20.58 | 4.069 | | | |
| 3,000.00 | 2,992.50 | 3,000.19 | 2,994.88 | 10.80 | 10.72 | 69.40 | 106.20 | -67.68 | 90.64 | 69.33 | 21.32 | 4.252 | | | |
| 3,100.00 | 3,091.53 | 3,100.50 | 3,094.33 | 11.20 | 11.09 | 71.55 | 111.32 | -72.39 | 97.68 | 75.63 | 22.05 | 4.430 | | | |
| 3,200.00 | 3,190.56 | 3,198.40 | 3,193.02 | 11.60 | 11.45 | 73.71 | 116.00 | -76.70 | 105.09 | 82.31 | 22.77 | 4.615 | | | |
| 3,300.00 | 3,289.58 | 3,296.56 | 3,291.09 | 12.00 | 11.81 | 76.65 | 118.89 | -79.36 | 113.78 | 90.30 | 23.47 | 4.847 | | | |
| 3,400.00 | 3,388.61 | 3,406.87 | 3,388.61 | 12.41 | 12.20 | 80.16 | 119.93 | -80.32 | 124.08 | 99.88 | 24.20 | 5.128 | | | |
| 3,474.21 | 3,462.09 | 3,467.57 | 3,462.09 | 12.71 | 12.41 | 82.78 | 119.93 | -80.32 | 132.60 | 107.94 | 24.66 | 5.377 | | | |
| 3,500.00 | 3,487.64 | 3,506.88 | 3,487.64 | 12.81 | 12.55 | 83.59 | 119.93 | -80.32 | 135.54 | 110.66 | 24.88 | 5.447 | | | |
| 3,600.00 | 3,586.92 | 3,607.60 | 3,586.92 | 13.21 | 12.90 | 86.11 | 119.93 | -80.32 | 145.78 | 120.20 | 25.58 | 5.699 | | | |
| 3,700.00 | 3,686.48 | 3,708.04 | 3,686.48 | 13.60 | 13.25 | 87.84 | 119.93 | -80.32 | 153.96 | 127.68 | 26.28 | 5.859 | | | |
| 3,800.00 | 3,786.25 | 3,808.27 | 3,786.25 | 13.97 | 13.60 | 88.98 | 119.93 | -80.32 | 159.94 | 132.96 | 26.98 | 5.928 | | | |
| 3,900.00 | 3,886.16 | 3,908.36 | 3,886.16 | 14.33 | 13.95 | 89.64 | 119.93 | -80.32 | 163.63 | 135.95 | 27.68 | 5.911 | | | |
| 4,000.00 | 3,986.15 | 4,008.37 | 3,986.15 | 14.68 | 14.30 | 89.87 | 119.93 | -80.32 | 164.99 | 136.61 | 28.38 | 5.813 | | | |
| 4,007.85 | 3,994.00 | 4,000.52 | 3,994.00 | 14.70 | 14.27 | 89.87 | 119.93 | -80.32 | 165.00 | 136.62 | 28.38 | 5.813 | | | |
| 4,100.00 | 4,086.15 | 4,108.37 | 4,086.15 | 15.01 | 14.65 | 89.87 | 119.93 | -80.32 | 165.00 | 135.92 | 29.08 | 5.873 | | | |
| 4,200.00 | 4,186.15 | 4,208.37 | 4,186.15 | 15.35 | 15.01 | 89.87 | 119.93 | -80.32 | 165.00 | 135.22 | 29.78 | 5.540 | | | |
| 4,300.00 | 4,286.15 | 4,308.37 | 4,286.15 | 15.69 | 15.36 | 89.87 | 119.93 | -80.32 | 165.00 | 134.52 | 30.48 | 5.413 | | | |
| 4,400.00 | 4,386.15 | 4,408.37 | 4,386.15 | 16.03 | 15.71 | 89.87 | 119.93 | -80.32 | 165.00 | 133.81 | 31.19 | 5.291 | | | |
| 4,500.00 | 4,486.15 | 4,508.37 | 4,486.15 | 16.37 | 16.06 | 89.87 | 119.93 | -80.32 | 165.00 | 133.11 | 31.89 | 5.175 | | | |
| 4,600.00 | 4,586.15 | 4,608.37 | 4,586.15 | 16.71 | 16.41 | 89.87 | 119.93 | -80.32 | 165.00 | 132.41 | 32.59 | 5.063 | | | |
| 4,700.00 | 4,686.15 | 4,708.37 | 4,686.15 | 17.06 | 16.77 | 89.87 | 119.93 | -80.32 | 165.00 | 131.71 | 33.29 | 4.956 | | | |
| 4,800.00 | 4,786.15 | 4,808.37 | 4,786.15 | 17.40 | 17.12 | 89.87 | 119.93 | -80.32 | 165.00 | 131.00 | 34.00 | 4.853 | | | |
| 4,900.00 | 4,886.15 | 4,908.37 | 4,886.15 | 17.74 | 17.47 | 89.87 | 119.93 | -80.32 | 165.00 | 130.30 | 34.70 | 4.755 | | | |
| 5,000.00 | 4,986.15 | 5,008.37 | 4,986.15 | 18.09 | 17.83 | 89.87 | 119.93 | -80.32 | 165.00 | 129.59 | 35.41 | 4.660 | | | |
| 5,100.00 | 5,086.15 | 5,108.37 | 5,086.15 | 18.43 | 18.18 | 89.87 | 119.93 | -80.32 | 165.00 | 128.89 | 36.11 | 4.569 | | | |
| 5,200.00 | 5,186.15 | 5,208.37 | 5,186.15 | 18.78 | 18.54 | 89.87 | 119.93 | -80.32 | 165.00 | 128.18 | 36.82 | 4.482 | | | |
| 5,300.00 | 5,286.15 | 5,308.37 | 5,286.15 | 19.12 | 18.89 | 89.87 | 119.93 | -80.32 | 165.00 | 127.48 | 37.52 | 4.397 | | | |
| 5,400.00 | 5,386.15 | 5,408.37 | 5,386.15 | 19.47 | 19.24 | 89.87 | 119.93 | -80.32 | 165.00 | 126.77 | 38.23 | 4.316 | | | |
| 5,500.00 | 5,486.15 | 5,508.37 | 5,486.15 | 19.82 | 19.60 | 89.87 | 119.93 | -80.32 | 165.00 | 126.06 | 38.94 | 4.238 | | | |
| 5,600.00 | 5,586.15 | 5,608.37 | 5,586.15 | 20.16 | 19.95 | 89.87 | 119.93 | -80.32 | 165.00 | 125.36 | 39.64 | 4.162 | | | |
| 5,700.00 | 5,686.15 | 5,708.37 | 5,686.15 | 20.51 | 20.31 | 89.87 | 119.93 | -80.32 | 165.00 | 124.65 | 40.35 | 4.089 | | | |
| 5,800.00 | 5,786.15 | 5,808.37 | 5,786.15 | 20.86 | 20.66 | 89.87 | 119.93 | -80.32 | 165.00 | 123.94 | 41.06 | 4.019 | | | |
| 5,900.00 | 5,886.15 | 5,908.37 | 5,886.15 | 21.21 | 21.02 | 89.87 | 119.93 | -80.32 | 165.00 | 123.23 | 41.77 | 3.950 | | | |
| 6,000.00 | 5,986.15 | 6,008.37 | 5,986.15 | 21.56 | 21.37 | 89.87 | 119.93 | -80.32 | 165.00 | 122.52 | 42.48 | 3.885 | | | |
| 6,100.00 | 6,086.15 | 6,108.37 | 6,086.15 | 21.91 | 21.73 | 89.87 | 119.93 | -80.32 | 165.00 | 121.82 | 43.18 | 3.821 | | | |

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



MS Energy Services
Anticollision Report



Company: Matador Resources
Project: Eddy County, New Mexico (NAD 27)
Reference Site: Warren 25-23S-27E RB Fed COM
Site Error: 0.00 usft
Reference Well: #201H
Well Error: 0.00 usft
Reference Wellbore: Wellbore #1
Reference Design: Design #3

Local Co-ordinate Reference: Well #201H
TVD Reference: WELL @ 3162.00usft (Patterson 297)
MD Reference: WELL @ 3162.00usft (Patterson 297)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: EDM Conroe
Offset TVD Reference: Offset Datum

| Offset Design Warren 25-23S-27E RB Fed COM - #121H - Wellbore #1 - Design #3 | | | | | | | | | | | | | | Offset Site Error: | 0.00 usft |
|--|-----------------------|-----------------------|-----------------------|------------------|---------------|------------------------|------------------------------------|-------------|------------------------|-------------------------|---------------------------|-------------------|--|--------------------|-----------|
| Survey Program: 0-MWD | | | | | | | | | | | | | | Offset Well Error: | 0.00 usft |
| Reference | | Offset | | Semi Major Axis | | Distance | | | | | | | | Warning | |
| Measured Depth (usft) | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Azimuth from North (°) | Offset Wellbore Centre +N-S (usft) | +E-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | | | |
| 6,200.00 | 6,186.15 | 6,208.37 | 6,186.15 | 22.25 | 22.08 | 89.87 | 119.93 | -80.32 | 165.00 | 121.11 | 43.89 | 3.759 | | | |
| 6,300.00 | 6,286.15 | 6,308.37 | 6,286.15 | 22.60 | 22.44 | 89.87 | 119.93 | -80.32 | 165.00 | 120.40 | 44.60 | 3.699 | | | |
| 6,400.00 | 6,386.15 | 6,408.37 | 6,386.15 | 22.95 | 22.79 | 89.87 | 119.93 | -80.32 | 165.00 | 119.69 | 45.31 | 3.641 | | | |
| 6,500.00 | 6,486.15 | 6,508.37 | 6,486.15 | 23.30 | 23.15 | 89.87 | 119.93 | -80.32 | 165.00 | 118.98 | 46.02 | 3.585 | | | |
| 6,600.00 | 6,586.15 | 6,608.37 | 6,586.15 | 23.65 | 23.51 | 89.87 | 119.93 | -80.32 | 165.00 | 118.27 | 46.73 | 3.531 | | | |
| 6,700.00 | 6,686.15 | 6,708.37 | 6,686.15 | 24.00 | 23.86 | 89.87 | 119.93 | -80.32 | 165.00 | 117.56 | 47.44 | 3.478 | | | |
| 6,800.00 | 6,786.15 | 6,808.37 | 6,786.15 | 24.36 | 24.22 | 89.87 | 119.93 | -80.32 | 165.00 | 116.85 | 48.15 | 3.427 | | | |
| 6,900.00 | 6,886.15 | 6,891.63 | 6,886.15 | 24.71 | 24.51 | 89.87 | 119.93 | -80.32 | 165.00 | 116.20 | 48.80 | 3.381 | | | |
| 6,974.93 | 6,961.07 | 6,966.55 | 6,961.07 | 24.97 | 24.78 | 89.87 | 119.93 | -80.32 | 165.00 | 115.66 | 49.34 | 3.344 | | | |
| 7,000.00 | 6,986.15 | 6,991.63 | 6,986.15 | 25.06 | 24.87 | 89.90 | 119.86 | -80.32 | 165.00 | 115.49 | 49.51 | 3.332 | | | |
| 7,000.78 | 6,986.93 | 6,992.41 | 6,986.93 | 25.06 | 24.87 | 89.90 | 119.85 | -80.32 | 165.00 | 115.48 | 49.52 | 3.332 | | | |
| 7,100.00 | 7,086.15 | 7,090.35 | 7,084.24 | 25.41 | 25.18 | 93.38 | 109.82 | -80.30 | 165.32 | 115.18 | 50.14 | 3.297 SF | | | |
| 7,200.00 | 7,186.15 | 7,183.04 | 7,173.50 | 25.76 | 25.45 | 101.76 | 85.20 | -80.25 | 169.08 | 118.54 | 50.54 | 3.345 | | | |
| 7,300.00 | 7,286.15 | 7,266.01 | 7,249.11 | 26.11 | 25.67 | 112.48 | 51.22 | -80.19 | 182.51 | 132.29 | 50.22 | 3.634 | | | |
| 7,400.00 | 7,386.15 | 7,337.83 | 7,310.01 | 26.46 | 25.84 | 122.76 | 13.25 | -80.12 | 210.69 | 162.00 | 48.69 | 4.327 | | | |
| 7,500.00 | 7,486.15 | 7,400.00 | 7,358.55 | 26.82 | 25.97 | 131.28 | -25.55 | -80.05 | 254.27 | 207.91 | 46.36 | 5.485 | | | |
| 7,600.00 | 7,586.15 | 7,450.00 | 7,394.36 | 27.17 | 26.08 | 137.43 | -60.43 | -79.98 | 310.67 | 267.04 | 43.63 | 7.120 | | | |
| 7,700.00 | 7,686.15 | 7,493.17 | 7,422.72 | 27.52 | 26.20 | 142.11 | -92.95 | -79.92 | 376.71 | 335.48 | 41.24 | 9.135 | | | |
| 7,800.00 | 7,786.15 | 7,529.51 | 7,444.65 | 27.87 | 26.31 | 145.58 | -121.93 | -79.87 | 449.79 | 410.59 | 39.20 | 11.474 | | | |
| 7,900.00 | 7,886.15 | 7,560.34 | 7,461.78 | 28.23 | 26.41 | 148.22 | -147.56 | -79.82 | 528.04 | 490.51 | 37.53 | 14.069 | | | |
| 8,000.00 | 7,986.15 | 7,586.67 | 7,475.30 | 28.58 | 26.49 | 150.26 | -170.15 | -79.78 | 610.16 | 573.99 | 36.17 | 16.868 | | | |
| 8,100.00 | 8,086.15 | 7,600.00 | 7,481.75 | 28.93 | 26.54 | 151.22 | -181.81 | -79.76 | 695.37 | 660.65 | 34.72 | 20.029 | | | |
| 8,200.00 | 8,186.15 | 7,629.00 | 7,494.82 | 29.29 | 26.64 | 153.16 | -207.69 | -79.71 | 782.60 | 748.36 | 34.23 | 22.861 | | | |
| 8,300.00 | 8,286.15 | 7,650.00 | 7,503.46 | 29.64 | 26.71 | 154.44 | -226.83 | -79.67 | 871.79 | 838.12 | 33.68 | 25.886 | | | |
| 8,400.00 | 8,386.15 | 7,650.00 | 7,503.46 | 29.99 | 26.71 | 154.44 | -226.83 | -79.67 | 962.58 | 929.87 | 32.71 | 29.429 | | | |
| 8,500.00 | 8,486.15 | 7,674.64 | 7,512.70 | 30.35 | 26.80 | 155.83 | -249.67 | -79.63 | 1,054.23 | 1,021.61 | 32.62 | 32.322 | | | |
| 8,600.00 | 8,586.15 | 7,700.00 | 7,521.17 | 30.70 | 26.89 | 157.14 | -273.58 | -79.59 | 1,147.26 | 1,114.64 | 32.62 | 35.171 | | | |
| 8,700.00 | 8,686.15 | 7,700.00 | 7,521.17 | 31.05 | 26.89 | 157.14 | -273.58 | -79.59 | 1,240.64 | 1,208.50 | 32.14 | 38.597 | | | |
| 8,785.09 | 8,771.24 | 7,700.00 | 7,521.17 | 31.35 | 26.89 | 157.14 | -273.58 | -79.59 | 1,320.87 | 1,289.02 | 31.85 | 41.476 | | | |
| 8,800.00 | 8,786.15 | 7,700.00 | 7,521.17 | 31.41 | 26.89 | 157.13 | -273.58 | -79.59 | 1,334.93 | 1,303.13 | 31.80 | 41.980 | | | |
| 8,850.00 | 8,836.01 | 7,700.00 | 7,521.17 | 31.57 | 26.89 | 156.86 | -273.58 | -79.59 | 1,381.39 | 1,349.77 | 31.62 | 43.687 | | | |
| 8,900.00 | 8,885.38 | 7,718.52 | 7,526.69 | 31.72 | 26.97 | 157.19 | -291.26 | -79.55 | 1,426.16 | 1,394.43 | 31.73 | 44.949 | | | |
| 8,950.00 | 8,933.88 | 7,725.59 | 7,528.64 | 31.88 | 26.99 | 156.64 | -298.04 | -79.54 | 1,469.48 | 1,437.88 | 31.60 | 46.500 | | | |
| 9,000.00 | 8,981.15 | 7,750.00 | 7,534.74 | 32.02 | 27.09 | 156.64 | -321.68 | -79.50 | 1,511.29 | 1,479.57 | 31.72 | 47.642 | | | |
| 9,050.00 | 9,026.81 | 7,750.00 | 7,534.74 | 32.16 | 27.09 | 155.07 | -321.68 | -79.50 | 1,550.47 | 1,519.04 | 31.44 | 49.322 | | | |
| 9,100.00 | 9,070.53 | 7,750.00 | 7,534.74 | 32.29 | 27.09 | 153.03 | -321.68 | -79.50 | 1,587.60 | 1,556.45 | 31.15 | 50.961 | | | |
| 9,150.00 | 9,111.98 | 7,750.00 | 7,534.74 | 32.42 | 27.09 | 150.42 | -321.68 | -79.50 | 1,622.54 | 1,591.66 | 30.88 | 52.541 | | | |
| 9,200.00 | 9,150.83 | 7,770.12 | 7,539.01 | 32.53 | 27.17 | 148.74 | -341.34 | -79.46 | 1,654.70 | 1,623.84 | 30.86 | 53.618 | | | |
| 9,250.00 | 9,186.79 | 7,780.42 | 7,540.93 | 32.65 | 27.22 | 145.81 | -351.47 | -79.44 | 1,684.32 | 1,653.60 | 30.72 | 54.827 | | | |
| 9,300.00 | 9,219.59 | 7,800.00 | 7,544.07 | 32.76 | 27.30 | 143.16 | -370.79 | -79.41 | 1,711.25 | 1,680.56 | 30.68 | 55.770 | | | |
| 9,350.00 | 9,248.97 | 7,800.00 | 7,544.07 | 32.89 | 27.30 | 137.79 | -370.79 | -79.41 | 1,735.11 | 1,704.64 | 30.47 | 56.953 | | | |
| 9,400.00 | 9,274.72 | 7,800.00 | 7,544.07 | 33.03 | 27.30 | 131.17 | -370.79 | -79.41 | 1,756.27 | 1,725.98 | 30.29 | 57.980 | | | |
| 9,450.00 | 9,296.64 | 7,824.58 | 7,547.07 | 33.18 | 27.41 | 127.13 | -395.18 | -79.36 | 1,774.00 | 1,743.66 | 30.34 | 58.469 | | | |
| 9,500.00 | 9,314.56 | 7,850.00 | 7,549.08 | 33.35 | 27.52 | 122.80 | -420.52 | -79.31 | 1,789.03 | 1,758.62 | 30.41 | 58.837 | | | |
| 9,550.00 | 9,328.35 | 7,850.00 | 7,549.08 | 33.52 | 27.52 | 113.45 | -420.52 | -79.31 | 1,800.46 | 1,770.12 | 30.34 | 59.348 | | | |
| 9,585.09 | 9,335.49 | 7,850.00 | 7,549.08 | 33.65 | 27.52 | 106.31 | -420.52 | -79.31 | 1,806.75 | 1,776.42 | 30.33 | 59.576 | | | |
| 9,600.00 | 9,337.97 | 7,850.00 | 7,549.08 | 33.71 | 27.52 | 103.20 | -420.52 | -79.31 | 1,809.07 | 1,778.74 | 30.33 | 59.642 | | | |
| 9,650.00 | 9,344.58 | 7,882.52 | 7,550.00 | 33.91 | 27.67 | 99.48 | -453.02 | -79.25 | 1,815.67 | 1,785.16 | 30.51 | 59.505 | | | |
| 9,700.00 | 9,348.60 | 7,885.41 | 7,550.00 | 34.12 | 27.68 | 89.89 | -455.92 | -79.25 | 1,820.57 | 1,789.96 | 30.62 | 59.465 | | | |
| 9,751.76 | 9,350.00 | 7,936.11 | 7,550.00 | 34.34 | 27.94 | 89.89 | -506.61 | -79.15 | 1,823.58 | 1,792.67 | 30.91 | 59.006 | | | |
| 9,800.00 | 9,350.00 | 7,983.50 | 7,550.00 | 34.57 | 28.19 | 89.89 | -554.01 | -79.07 | 1,825.05 | 1,793.86 | 31.19 | 58.521 | | | |
| 9,900.00 | 9,350.00 | 8,082.38 | 7,550.00 | 35.08 | 28.78 | 89.89 | -652.89 | -78.88 | 1,827.56 | 1,795.74 | 31.81 | 57.447 | | | |

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



MS Energy Services

Anticollision Report



Company: Matador Resources
Project: Eddy County, New Mexico (NAD 27)
Reference Site: Warren 25-23S-27E RB Fed COM
Site Error: 0.00 usft
Reference Well: #201H
Well Error: 0.00 usft
Reference Wellbore: Wellbore #1
Reference Design: Design #3

Local Co-ordinate Reference: Well #201H
TVD Reference: WELL @ 3162.00usft (Patterson 297)
MD Reference: WELL @ 3162.00usft (Patterson 297)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: EDM Conroe
Offset TVD Reference: Offset Datum

| Offset Design Warren 25-23S-27E RB Fed COM - #121H - Wellbore #1 - Design #3 | | | | | | | | | | | | | Offset Site Error: | 0.00 usft |
|--|-----------------------|-----------------------|-----------------------|------------------|---------------|------------------------|------------------------------------|-------------|------------------------|-------------------------|---------------------------|-------------------|--------------------|-----------|
| Survey Program: 0-MWD | | | | | | | | | | | | | Offset Well Error: | 0.00 usft |
| Reference | | Offset | | Semi Major Axis | | Distance | | | | | | | Warning | |
| Measured Depth (usft) | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Azimuth from North (°) | Offset Wellbore Centre +N-S (usft) | +E-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | | |
| 10,000.00 | 9,350.00 | 8,181.90 | 7,550.00 | 35.64 | 29.45 | 89.89 | -752.41 | -78.70 | 1,829.25 | 1,796.77 | 32.48 | 56.312 | | |
| 10,100.00 | 9,350.00 | 8,281.79 | 7,550.00 | 36.26 | 30.20 | 89.89 | -852.30 | -78.51 | 1,830.04 | 1,796.85 | 33.19 | 55.138 | | |
| 10,134.88 | 9,350.00 | 8,316.68 | 7,550.00 | 36.49 | 30.48 | 89.89 | -887.18 | -78.45 | 1,830.10 | 1,796.66 | 33.44 | 54.723 | | |
| 10,200.00 | 9,350.00 | 8,381.79 | 7,550.00 | 36.93 | 31.02 | 89.89 | -952.30 | -78.33 | 1,830.10 | 1,796.17 | 33.93 | 53.935 | | |
| 10,300.00 | 9,350.00 | 8,481.79 | 7,550.00 | 37.65 | 31.91 | 89.89 | -1,052.29 | -78.14 | 1,830.10 | 1,795.36 | 34.73 | 52.689 | | |
| 10,400.00 | 9,350.00 | 8,581.79 | 7,550.00 | 38.43 | 32.85 | 89.89 | -1,152.29 | -77.96 | 1,830.09 | 1,794.50 | 35.60 | 51.414 | | |
| 10,500.00 | 9,350.00 | 8,681.79 | 7,550.00 | 39.27 | 33.85 | 89.89 | -1,252.29 | -77.77 | 1,830.09 | 1,793.58 | 36.51 | 50.124 | | |
| 10,600.00 | 9,350.00 | 8,781.79 | 7,550.00 | 40.16 | 34.90 | 89.89 | -1,352.29 | -77.59 | 1,830.09 | 1,792.61 | 37.48 | 48.831 | | |
| 10,700.00 | 9,350.00 | 8,881.79 | 7,550.00 | 41.09 | 36.00 | 89.89 | -1,452.29 | -77.40 | 1,830.09 | 1,791.60 | 38.49 | 47.546 | | |
| 10,800.00 | 9,350.00 | 8,981.79 | 7,550.00 | 42.07 | 37.13 | 89.89 | -1,552.29 | -77.22 | 1,830.08 | 1,790.54 | 39.55 | 46.276 | | |
| 10,900.00 | 9,350.00 | 9,081.79 | 7,550.00 | 43.09 | 38.31 | 89.89 | -1,652.29 | -77.03 | 1,830.08 | 1,789.44 | 40.64 | 45.028 | | |
| 11,000.00 | 9,350.00 | 9,181.79 | 7,550.00 | 44.15 | 39.52 | 89.89 | -1,752.29 | -76.85 | 1,830.08 | 1,788.30 | 41.78 | 43.807 | | |
| 11,100.00 | 9,350.00 | 9,281.79 | 7,550.00 | 45.24 | 40.76 | 89.89 | -1,852.29 | -76.66 | 1,830.08 | 1,787.13 | 42.94 | 42.617 | | |
| 11,200.00 | 9,350.00 | 9,381.79 | 7,550.00 | 46.37 | 42.03 | 89.89 | -1,952.29 | -76.48 | 1,830.07 | 1,785.94 | 44.14 | 41.461 | | |
| 11,300.00 | 9,350.00 | 9,481.79 | 7,550.00 | 47.53 | 43.33 | 89.89 | -2,052.29 | -76.29 | 1,830.07 | 1,784.71 | 45.36 | 40.341 | | |
| 11,400.00 | 9,350.00 | 9,581.79 | 7,550.00 | 48.72 | 44.65 | 89.89 | -2,152.29 | -76.10 | 1,830.07 | 1,783.45 | 46.62 | 39.258 | | |
| 11,500.00 | 9,350.00 | 9,681.79 | 7,550.00 | 49.93 | 45.99 | 89.89 | -2,252.29 | -75.92 | 1,830.07 | 1,782.17 | 47.89 | 38.212 | | |
| 11,600.00 | 9,350.00 | 9,781.79 | 7,550.00 | 51.17 | 47.35 | 89.89 | -2,352.29 | -75.73 | 1,830.06 | 1,780.87 | 49.19 | 37.203 | | |
| 11,700.00 | 9,350.00 | 9,881.79 | 7,550.00 | 52.43 | 48.73 | 89.89 | -2,452.29 | -75.55 | 1,830.06 | 1,779.55 | 50.51 | 36.231 | | |
| 11,800.00 | 9,350.00 | 9,981.79 | 7,550.00 | 53.72 | 50.13 | 89.89 | -2,552.29 | -75.36 | 1,830.06 | 1,778.21 | 51.85 | 35.296 | | |
| 11,900.00 | 9,350.00 | 10,081.79 | 7,550.00 | 55.02 | 51.54 | 89.89 | -2,652.29 | -75.18 | 1,830.06 | 1,776.85 | 53.20 | 34.397 | | |
| 12,000.00 | 9,350.00 | 10,181.79 | 7,550.00 | 56.34 | 52.97 | 89.89 | -2,752.29 | -74.99 | 1,830.06 | 1,775.48 | 54.58 | 33.532 | | |
| 12,100.00 | 9,350.00 | 10,281.79 | 7,550.00 | 57.68 | 54.40 | 89.89 | -2,852.29 | -74.81 | 1,830.05 | 1,774.09 | 55.96 | 32.701 | | |
| 12,200.00 | 9,350.00 | 10,381.79 | 7,550.00 | 59.04 | 55.86 | 89.89 | -2,952.29 | -74.62 | 1,830.05 | 1,772.68 | 57.37 | 31.902 | | |
| 12,300.00 | 9,350.00 | 10,481.79 | 7,550.00 | 60.41 | 57.32 | 89.89 | -3,052.29 | -74.44 | 1,830.05 | 1,771.27 | 58.78 | 31.134 | | |
| 12,400.00 | 9,350.00 | 10,581.79 | 7,550.00 | 61.79 | 58.79 | 89.89 | -3,152.29 | -74.25 | 1,830.05 | 1,769.84 | 60.21 | 30.396 | | |
| 12,500.00 | 9,350.00 | 10,681.79 | 7,550.00 | 63.19 | 60.27 | 89.89 | -3,252.29 | -74.07 | 1,830.04 | 1,768.40 | 61.64 | 29.687 | | |
| 12,600.00 | 9,350.00 | 10,781.79 | 7,550.00 | 64.60 | 61.77 | 89.89 | -3,352.29 | -73.88 | 1,830.04 | 1,766.95 | 63.09 | 29.005 | | |
| 12,700.00 | 9,350.00 | 10,881.79 | 7,550.00 | 66.02 | 63.26 | 89.89 | -3,452.29 | -73.70 | 1,830.04 | 1,765.49 | 64.55 | 28.350 | | |
| 12,800.00 | 9,350.00 | 10,981.79 | 7,550.00 | 67.46 | 64.77 | 89.89 | -3,552.29 | -73.51 | 1,830.04 | 1,764.02 | 66.02 | 27.720 | | |
| 12,900.00 | 9,350.00 | 11,081.79 | 7,550.00 | 68.90 | 66.29 | 89.89 | -3,652.29 | -73.33 | 1,830.03 | 1,762.54 | 67.50 | 27.114 | | |
| 13,000.00 | 9,350.00 | 11,181.79 | 7,550.00 | 70.35 | 67.81 | 89.89 | -3,752.29 | -73.14 | 1,830.03 | 1,761.05 | 68.98 | 26.530 | | |
| 13,100.00 | 9,350.00 | 11,281.79 | 7,550.00 | 71.81 | 69.33 | 89.89 | -3,852.29 | -72.95 | 1,830.03 | 1,759.56 | 70.47 | 25.968 | | |
| 13,200.00 | 9,350.00 | 11,381.79 | 7,550.00 | 73.28 | 70.87 | 89.89 | -3,952.29 | -72.77 | 1,830.03 | 1,758.06 | 71.97 | 25.427 | | |
| 13,300.00 | 9,350.00 | 11,481.79 | 7,550.00 | 74.76 | 72.41 | 89.89 | -4,052.29 | -72.58 | 1,830.02 | 1,756.55 | 73.48 | 24.906 | | |
| 13,400.00 | 9,350.00 | 11,581.79 | 7,550.00 | 76.24 | 73.95 | 89.89 | -4,152.29 | -72.40 | 1,830.02 | 1,755.03 | 74.99 | 24.404 | | |
| 13,500.00 | 9,350.00 | 11,681.79 | 7,550.00 | 77.73 | 75.50 | 89.89 | -4,252.29 | -72.21 | 1,830.02 | 1,753.51 | 76.51 | 23.920 | | |
| 13,600.00 | 9,350.00 | 11,781.79 | 7,550.00 | 79.23 | 77.05 | 89.89 | -4,352.29 | -72.03 | 1,830.02 | 1,751.99 | 78.03 | 23.453 | | |
| 13,700.00 | 9,350.00 | 11,881.79 | 7,550.00 | 80.73 | 78.61 | 89.89 | -4,452.29 | -71.84 | 1,830.01 | 1,750.46 | 79.56 | 23.002 | | |
| 13,800.00 | 9,350.00 | 11,981.79 | 7,550.00 | 82.24 | 80.17 | 89.89 | -4,552.29 | -71.66 | 1,830.01 | 1,748.92 | 81.09 | 22.567 | | |
| 13,900.00 | 9,350.00 | 12,081.79 | 7,550.00 | 83.76 | 81.73 | 89.89 | -4,652.29 | -71.47 | 1,830.01 | 1,747.38 | 82.63 | 22.147 | | |
| 14,000.00 | 9,350.00 | 12,181.79 | 7,550.00 | 85.28 | 83.30 | 89.89 | -4,752.29 | -71.29 | 1,830.01 | 1,745.83 | 84.17 | 21.741 | | |
| 14,100.00 | 9,350.00 | 12,281.79 | 7,550.00 | 86.81 | 84.88 | 89.89 | -4,852.29 | -71.10 | 1,830.00 | 1,744.29 | 85.72 | 21.349 | | |
| 14,200.00 | 9,350.00 | 12,381.79 | 7,550.00 | 88.34 | 86.45 | 89.89 | -4,952.29 | -70.92 | 1,830.00 | 1,742.73 | 87.27 | 20.969 | | |
| 14,203.92 | 9,350.00 | 12,385.71 | 7,550.00 | 88.40 | 86.51 | 89.89 | -4,956.21 | -70.91 | 1,830.00 | 1,742.67 | 87.33 | 20.955 | | |

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



MS Energy Services
Anticollision Report



Company: Matador Resources
Project: Eddy County, New Mexico (NAD 27)
Reference Site: Warren 25-23S-27E RB Fed COM
Site Error: 0.00 usft
Reference Well: #201H
Well Error: 0.00 usft
Reference Wellbore: Wellbore #1
Reference Design: Design #3

Local Co-ordinate Reference: Well #201H
TVD Reference: WELL @ 3162.00usft (Patterson 297)
MD Reference: WELL @ 3162.00usft (Patterson 297)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: EDM Conroe
Offset TVD Reference: Offset Datum

Table with columns: Reference, Measured Depth, Vertical Depth, Offset, Semi Major Axis, Azimuth, Offset Wellbore Centre, Distance, Minimum Separation, Separation Factor, Warning. Includes data for Warren 25-23S-27E RB Fed COM - #203H - Wellbore #1 - Design #1.

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



MS Energy Services
Anticollision Report



Company: Matador Resources
Project: Eddy County, New Mexico (NAD 27)
Reference Site: Warren 25-23S-27E RB Fed COM
Site Error: 0.00 usft
Reference Well: #201H
Well Error: 0.00 usft
Reference Wellbore: Wellbore #1
Reference Design: Design #3

Local Co-ordinate Reference: Well #201H
TVD Reference: WELL @ 3162.00usft (Patterson 297)
MD Reference: WELL @ 3162.00usft (Patterson 297)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: EDM Conroe
Offset TVD Reference: Offset Datum

| Offset Design Warren 25-23S-27E RB Fed COM - #203H - Wellbore #1 - Design #1 | | | | | | | | | | | | | Offset Site Error: | 0.00 usft |
|--|-----------------------|-----------------------|-----------------------|------------------|---------------|------------------------|-------------------------------------|--------------|------------------------|-------------------------|---------------------------|-------------------|--------------------|-----------|
| Survey Program: 0-MWD | | | | | | | | | | | | | Offset Well Error: | 0.00 usft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning | |
| Measured Depth (usft) | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Azimuth from North (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | | |
| 13,700.00 | 9,350.00 | 9,844.47 | 9,320.00 | 80.73 | 37.46 | 90.13 | -4,459.09 | 2,243.52 | 2,645.51 | 2,527.65 | 117.86 | 22.447 | | |
| 13,800.00 | 9,350.00 | 9,744.47 | 9,320.00 | 82.24 | 36.73 | 90.13 | -4,559.09 | 2,243.29 | 2,645.07 | 2,526.44 | 118.64 | 22.295 | | |
| 13,900.00 | 9,350.00 | 9,646.44 | 9,315.76 | 83.76 | 36.07 | 90.09 | -4,656.99 | 2,243.06 | 2,644.68 | 2,525.19 | 119.49 | 22.133 | | |
| 14,000.00 | 9,350.00 | 9,550.88 | 9,301.90 | 85.28 | 35.46 | 89.97 | -4,751.48 | 2,242.84 | 2,644.41 | 2,524.03 | 120.38 | 21.967 | | |
| 14,032.95 | 9,350.00 | 9,520.95 | 9,294.97 | 85.78 | 35.28 | 89.89 | -4,780.60 | 2,242.77 | 2,644.38 | 2,523.70 | 120.68 | 21.912 | | |
| 14,100.00 | 9,350.00 | 9,462.66 | 9,277.16 | 86.81 | 34.93 | 89.64 | -4,836.08 | 2,242.64 | 2,644.52 | 2,523.21 | 121.31 | 21.800 | | |
| 14,200.00 | 9,350.00 | 9,383.58 | 9,244.18 | 88.34 | 34.47 | 89.02 | -4,907.88 | 2,242.47 | 2,645.44 | 2,523.17 | 122.27 | 21.636 | | |
| 14,203.92 | 9,350.00 | 9,380.69 | 9,242.79 | 88.40 | 34.46 | 88.99 | -4,910.41 | 2,242.46 | 2,645.50 | 2,523.20 | 122.31 | 21.630 | | |

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



MS Energy Services
Anticollision Report



Company: Matador Resources
Project: Eddy County, New Mexico (NAD 27)
Reference Site: Warren 25-23S-27E RB Fed COM
Site Error: 0.00 usft
Reference Well: #201H
Well Error: 0.00 usft
Reference Wellbore: Wellbore #1
Reference Design: Design #3

Local Co-ordinate Reference: Well #201H
TVD Reference: WELL @ 3162.00usft (Patterson 297)
MD Reference: WELL @ 3162.00usft (Patterson 297)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: EDM Conroe
Offset TVD Reference: Offset Datum

Table with columns: Reference, Offset, Semi Major Axis, Distance, Warning. Rows contain depth and azimuth data for Warren 25-23S-27E RB Fed COM - #205H - Wellbore #1 - Design #3.

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



MS Energy Services
Anticollision Report



Company: Matador Resources
Project: Eddy County, New Mexico (NAD 27)
Reference Site: Warren 25-23S-27E RB Fed COM
Site Error: 0.00 usft
Reference Well: #201H
Well Error: 0.00 usft
Reference Wellbore: Wellbore #1
Reference Design: Design #3

Local Co-ordinate Reference: Well #201H
TVD Reference: WELL @ 3162.00usft (Patterson 297)
MD Reference: WELL @ 3162.00usft (Patterson 297)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: EDM Conroe
Offset TVD Reference: Offset Datum

| Offset Design Warren 25-23S-27E RB Fed COM - #205H - Wellbore #1 - Design #3 | | | | | | | | | | | | | Offset Site Error: | 0.00 usft |
|--|-----------------------|-----------------------|-----------------------|------------------|---------------|------------------------|------------------------------------|-------------|------------------------|-------------------------|---------------------------|-------------------|--------------------|-----------|
| Survey Program: 0-MWD | | | | | | | | | | | | | Offset Well Error: | 0.00 usft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning | |
| Measured Depth (usft) | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Azimuth from North (°) | Offset Wellbore Centre +N-S (usft) | +E-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | | |
| 13,800.00 | 9,350.00 | 13,809.81 | 9,350.00 | 82.24 | 83.12 | 89.89 | -4,551.64 | 258.33 | 660.05 | 494.95 | 165.10 | 3.998 | | |
| 13,900.00 | 9,350.00 | 13,909.81 | 9,350.00 | 83.76 | 84.65 | 89.89 | -4,651.64 | 258.52 | 660.04 | 491.90 | 168.14 | 3.926 | | |
| 14,000.00 | 9,350.00 | 14,009.81 | 9,350.00 | 85.28 | 86.17 | 89.89 | -4,751.64 | 258.71 | 660.03 | 488.84 | 171.19 | 3.856 | | |
| 14,100.00 | 9,350.00 | 14,090.20 | 9,350.00 | 86.81 | 87.40 | 89.89 | -4,851.64 | 258.90 | 660.03 | 486.07 | 173.95 | 3.794 | | |
| 14,200.00 | 9,350.00 | 14,190.20 | 9,350.00 | 88.34 | 88.78 | 89.89 | -4,951.64 | 259.09 | 660.02 | 483.16 | 176.86 | 3.732 | | |
| 14,203.05 | 9,350.00 | 14,193.24 | 9,350.00 | 88.38 | 88.82 | 89.89 | -4,954.69 | 259.10 | 660.02 | 483.07 | 176.95 | 3.730 SF | | |
| 14,203.92 | 9,350.00 | 14,185.37 | 9,350.00 | 88.40 | 88.71 | 89.13 | -4,946.82 | 259.08 | 660.08 | 483.27 | 176.81 | 3.733 | | |

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



MS Energy Services

Anticollision Report



Company: Matador Resources
Project: Eddy County, New Mexico (NAD 27)
Reference Site: Warren 25-23S-27E RB Fed COM
Site Error: 0.00 usft
Reference Well: #201H
Well Error: 0.00 usft
Reference Wellbore: Wellbore #1
Reference Design: Design #3

Local Co-ordinate Reference: Well #201H
TVD Reference: WELL @ 3162.00usft (Patterson 297)
MD Reference: WELL @ 3162.00usft (Patterson 297)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: EDM Conroe
Offset TVD Reference: Offset Datum

| Offset Design Warren 25-23S-27E RB Fed COM - #206H - Wellbore #1 - Design #1 | | | | | | | | | | | | Offset Site Error: | 0.00 usft |
|--|-----------------------------|-----------------------------|-----------------------------|---------------------|------------------|------------------------------|------------------------|-----------------|------------------------------|-------------------------------|---------------------------------|--------------------|----------------------|
| Survey Program: 0-MWD | | | | | | | | | | | | Offset Well Error: | 0.00 usft |
| Reference | | Offset | | Semi Major Axis | | Azimuth from North (°) | Offset Wellbore Centre | | Distance | | | Warning | |
| Measured Depth (usft) | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | | +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | | Separation Factor |
| 4,800.00 | 4,786.15 | 14,253.56 | 9,320.00 | 17.40 | 95.95 | 95.81 | -66.34 | 1,581.76 | 4,902.81 | 4,838.64 | 64.17 | 76.400 | |
| 4,900.00 | 4,886.15 | 14,253.56 | 9,320.00 | 17.74 | 95.95 | 95.81 | -66.34 | 1,581.76 | 4,810.24 | 4,745.42 | 64.82 | 74.212 | |
| 5,000.00 | 4,986.15 | 14,253.56 | 9,320.00 | 18.09 | 95.95 | 95.81 | -66.34 | 1,581.76 | 4,717.96 | 4,652.48 | 65.49 | 72.044 | |
| 5,100.00 | 5,086.15 | 14,253.56 | 9,320.00 | 18.43 | 95.95 | 95.81 | -66.34 | 1,581.76 | 4,626.02 | 4,559.83 | 66.18 | 69.896 | |
| 5,200.00 | 5,186.15 | 14,253.56 | 9,320.00 | 18.78 | 95.95 | 95.81 | -66.34 | 1,581.76 | 4,534.41 | 4,467.50 | 66.91 | 67.769 | |
| 5,300.00 | 5,286.15 | 14,253.56 | 9,320.00 | 19.12 | 95.95 | 95.81 | -66.34 | 1,581.76 | 4,443.16 | 4,375.50 | 67.66 | 65.665 | |
| 5,400.00 | 5,386.15 | 14,253.56 | 9,320.00 | 19.47 | 95.95 | 95.81 | -66.34 | 1,581.76 | 4,352.30 | 4,283.85 | 68.45 | 63.584 | |
| 5,500.00 | 5,486.15 | 14,253.56 | 9,320.00 | 19.82 | 95.95 | 95.81 | -66.34 | 1,581.76 | 4,261.85 | 4,192.58 | 69.27 | 61.527 | |
| 5,600.00 | 5,586.15 | 14,253.56 | 9,320.00 | 20.16 | 95.95 | 95.81 | -66.34 | 1,581.76 | 4,171.83 | 4,101.71 | 70.12 | 59.495 | |
| 5,700.00 | 5,686.15 | 14,253.56 | 9,320.00 | 20.51 | 95.95 | 95.81 | -66.34 | 1,581.76 | 4,082.28 | 4,011.27 | 71.01 | 57.489 | |
| 5,800.00 | 5,786.15 | 14,253.56 | 9,320.00 | 20.86 | 95.95 | 95.81 | -66.34 | 1,581.76 | 3,993.22 | 3,921.29 | 71.94 | 55.509 | |
| 5,900.00 | 5,886.15 | 14,253.56 | 9,320.00 | 21.21 | 95.95 | 95.81 | -66.34 | 1,581.76 | 3,904.70 | 3,831.79 | 72.91 | 53.558 | |
| 6,000.00 | 5,986.15 | 14,253.56 | 9,320.00 | 21.56 | 95.95 | 95.81 | -66.34 | 1,581.76 | 3,816.74 | 3,742.82 | 73.92 | 51.635 | |
| 6,100.00 | 6,086.15 | 14,253.56 | 9,320.00 | 21.91 | 95.95 | 95.81 | -66.34 | 1,581.76 | 3,729.39 | 3,654.41 | 74.97 | 49.743 | |
| 6,200.00 | 6,186.15 | 14,253.56 | 9,320.00 | 22.25 | 95.95 | 95.81 | -66.34 | 1,581.76 | 3,642.68 | 3,566.61 | 76.08 | 47.882 | |
| 6,300.00 | 6,286.15 | 14,253.56 | 9,320.00 | 22.60 | 95.95 | 95.81 | -66.34 | 1,581.76 | 3,556.68 | 3,479.45 | 77.23 | 46.054 | |
| 6,400.00 | 6,386.15 | 14,253.56 | 9,320.00 | 22.95 | 95.95 | 95.81 | -66.34 | 1,581.76 | 3,471.43 | 3,393.00 | 78.43 | 44.260 | |
| 6,500.00 | 6,486.15 | 14,253.56 | 9,320.00 | 23.30 | 95.95 | 95.81 | -66.34 | 1,581.76 | 3,386.98 | 3,307.29 | 79.69 | 42.501 | |
| 6,600.00 | 6,586.15 | 14,253.56 | 9,320.00 | 23.65 | 95.95 | 95.81 | -66.34 | 1,581.76 | 3,303.40 | 3,222.40 | 81.01 | 40.779 | |
| 6,700.00 | 6,686.15 | 14,253.56 | 9,320.00 | 24.00 | 95.95 | 95.81 | -66.34 | 1,581.76 | 3,220.76 | 3,138.38 | 82.38 | 39.095 | |
| 6,800.00 | 6,786.15 | 14,253.56 | 9,320.00 | 24.36 | 95.95 | 95.81 | -66.34 | 1,581.76 | 3,139.13 | 3,055.31 | 83.82 | 37.451 | |
| 6,900.00 | 6,886.15 | 14,253.56 | 9,320.00 | 24.71 | 95.95 | 95.81 | -66.34 | 1,581.76 | 3,058.59 | 2,973.27 | 85.32 | 35.848 | |
| 7,000.00 | 6,986.15 | 14,253.56 | 9,320.00 | 25.06 | 95.95 | 95.81 | -66.34 | 1,581.76 | 2,979.23 | 2,892.34 | 86.89 | 34.288 | |
| 7,100.00 | 7,086.15 | 14,253.56 | 9,320.00 | 25.41 | 95.95 | 95.81 | -66.34 | 1,581.76 | 2,901.14 | 2,812.62 | 88.52 | 32.773 | |
| 7,200.00 | 7,186.15 | 14,253.56 | 9,320.00 | 25.76 | 95.95 | 95.81 | -66.34 | 1,581.76 | 2,824.44 | 2,734.21 | 90.23 | 31.304 | |
| 7,300.00 | 7,286.15 | 14,253.56 | 9,320.00 | 26.11 | 95.95 | 95.81 | -66.34 | 1,581.76 | 2,749.23 | 2,657.23 | 92.00 | 29.883 | |
| 7,400.00 | 7,386.15 | 14,253.56 | 9,320.00 | 26.46 | 95.95 | 95.81 | -66.34 | 1,581.76 | 2,675.65 | 2,581.81 | 93.84 | 28.513 | |
| 7,500.00 | 7,486.15 | 14,253.56 | 9,320.00 | 26.82 | 95.95 | 95.81 | -66.34 | 1,581.76 | 2,603.83 | 2,508.08 | 95.75 | 27.194 | |
| 7,600.00 | 7,586.15 | 14,253.56 | 9,320.00 | 27.17 | 95.95 | 95.81 | -66.34 | 1,581.76 | 2,533.92 | 2,436.20 | 97.72 | 25.930 | |
| 7,700.00 | 7,686.15 | 14,253.56 | 9,320.00 | 27.52 | 95.95 | 95.81 | -66.34 | 1,581.76 | 2,466.09 | 2,366.33 | 99.76 | 24.721 | |
| 7,800.00 | 7,786.15 | 14,253.56 | 9,320.00 | 27.87 | 95.95 | 95.81 | -66.34 | 1,581.76 | 2,400.51 | 2,298.66 | 101.85 | 23.570 | |
| 7,900.00 | 7,886.15 | 14,253.56 | 9,320.00 | 28.23 | 95.95 | 95.81 | -66.34 | 1,581.76 | 2,337.36 | 2,233.38 | 103.98 | 22.478 | |
| 8,000.00 | 7,986.15 | 14,253.56 | 9,320.00 | 28.58 | 95.95 | 95.81 | -66.34 | 1,581.76 | 2,276.86 | 2,170.70 | 106.16 | 21.448 | |
| 8,100.00 | 8,086.15 | 14,253.56 | 9,320.00 | 28.93 | 95.95 | 95.81 | -66.34 | 1,581.76 | 2,219.22 | 2,110.86 | 108.35 | 20.481 | |
| 8,200.00 | 8,186.15 | 14,253.56 | 9,320.00 | 29.29 | 95.95 | 95.81 | -66.34 | 1,581.76 | 2,164.66 | 2,054.10 | 110.56 | 19.580 | |
| 8,300.00 | 8,286.15 | 14,253.56 | 9,320.00 | 29.64 | 95.95 | 95.81 | -66.34 | 1,581.76 | 2,113.43 | 2,000.68 | 112.75 | 18.745 | |
| 8,400.00 | 8,386.15 | 14,253.56 | 9,320.00 | 29.99 | 95.95 | 95.81 | -66.34 | 1,581.76 | 2,065.77 | 1,950.87 | 114.90 | 17.979 | |
| 8,500.00 | 8,486.15 | 14,253.56 | 9,320.00 | 30.35 | 95.95 | 95.81 | -66.34 | 1,581.76 | 2,021.94 | 1,904.95 | 116.99 | 17.283 | |
| 8,600.00 | 8,586.15 | 14,253.56 | 9,320.00 | 30.70 | 95.95 | 95.81 | -66.34 | 1,581.76 | 1,982.19 | 1,863.20 | 118.99 | 16.659 | |
| 8,700.00 | 8,686.15 | 14,253.56 | 9,320.00 | 31.05 | 95.95 | 95.81 | -66.34 | 1,581.76 | 1,946.77 | 1,825.90 | 120.86 | 16.107 | |
| 8,785.09 | 8,771.24 | 14,253.56 | 9,320.00 | 31.35 | 95.95 | 95.81 | -66.34 | 1,581.76 | 1,920.21 | 1,797.88 | 122.33 | 15.696 | |
| 8,800.00 | 8,786.15 | 14,253.56 | 9,320.00 | 31.41 | 95.95 | 95.80 | -66.34 | 1,581.76 | 1,915.93 | 1,793.35 | 122.58 | 15.630 | |
| 8,850.00 | 8,836.01 | 14,253.56 | 9,320.00 | 31.57 | 95.95 | 95.70 | -66.34 | 1,581.76 | 1,902.66 | 1,779.28 | 123.38 | 15.422 | |
| 8,900.00 | 8,885.38 | 14,253.56 | 9,320.00 | 31.72 | 95.95 | 95.45 | -66.34 | 1,581.76 | 1,891.16 | 1,767.01 | 124.14 | 15.234 | |
| 8,950.00 | 8,933.88 | 14,253.56 | 9,320.00 | 31.88 | 95.95 | 95.08 | -66.34 | 1,581.76 | 1,881.55 | 1,756.68 | 124.87 | 15.068 | |
| 9,000.00 | 8,981.15 | 14,253.56 | 9,320.00 | 32.02 | 95.95 | 94.58 | -66.34 | 1,581.76 | 1,873.94 | 1,748.40 | 125.55 | 14.926 | |
| 9,050.00 | 9,026.81 | 14,253.56 | 9,320.00 | 32.16 | 95.95 | 93.95 | -66.34 | 1,581.76 | 1,868.42 | 1,742.24 | 126.17 | 14.808 | |
| 9,100.00 | 9,070.53 | 14,253.56 | 9,320.00 | 32.29 | 95.95 | 93.20 | -66.34 | 1,581.76 | 1,865.03 | 1,738.29 | 126.74 | 14.716 | |
| 9,150.00 | 9,111.98 | 14,253.56 | 9,320.00 | 32.42 | 95.95 | 92.35 | -66.34 | 1,581.76 | 1,863.83 | 1,736.59 | 127.24 | 14.648 | |
| 9,152.49 | 9,113.97 | 14,253.56 | 9,320.00 | 32.42 | 95.95 | 92.30 | -66.34 | 1,581.76 | 1,863.82 | 1,736.56 | 127.26 | 14.645 CC, ES | |
| 9,200.00 | 9,150.83 | 14,253.56 | 9,320.00 | 32.53 | 95.95 | 91.39 | -66.34 | 1,581.76 | 1,864.81 | 1,737.14 | 127.68 | 14.606 | |
| 9,250.00 | 9,186.79 | 14,253.56 | 9,320.00 | 32.65 | 95.95 | 90.34 | -66.34 | 1,581.76 | 1,867.98 | 1,739.94 | 128.05 | 14.588 SF | |

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



MS Energy Services
Anticollision Report



Company: Matador Resources
Project: Eddy County, New Mexico (NAD 27)
Reference Site: Warren 25-23S-27E RB Fed COM
Site Error: 0.00 usft
Reference Well: #201H
Well Error: 0.00 usft
Reference Wellbore: Wellbore #1
Reference Design: Design #3

Local Co-ordinate Reference: Well #201H
TVD Reference: WELL @ 3162.00usft (Patterson 297)
MD Reference: WELL @ 3162.00usft (Patterson 297)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: EDM Conroe
Offset TVD Reference: Offset Datum

| Offset Design Warren 25-23S-27E RB Fed COM - #206H - Wellbore #1 - Design #1 | | | | | | | | | | | | | Offset Site Error: | 0.00 usft |
|--|-----------------------|-----------------------|-----------------------|------------------|---------------|------------------------|-------------------------------------|--------------|------------------------|-------------------------|---------------------------|-------------------|--------------------|-----------|
| Survey Program: 0-MWD | | | | | | | | | | | | | Offset Well Error: | 0.00 usft |
| Reference | | Offset | | Semi Major Axis | | Azimuth from North (°) | Distance | | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning | |
| Measured Depth (usft) | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | | | | | | |
| 9,300.00 | 9,219.59 | 14,227.20 | 9,320.00 | 32.76 | 95.54 | 90.01 | -92.70 | 1,581.76 | 1,873.11 | 1,745.23 | 127.88 | 14.647 | | |
| 9,350.00 | 9,248.97 | 14,187.56 | 9,320.00 | 32.89 | 94.92 | 90.01 | -132.34 | 1,581.75 | 1,879.54 | 1,752.09 | 127.45 | 14.747 | | |
| 9,400.00 | 9,274.72 | 14,145.56 | 9,320.00 | 33.03 | 94.27 | 90.01 | -174.34 | 1,581.75 | 1,887.02 | 1,760.06 | 128.96 | 14.863 | | |
| 9,450.00 | 9,296.64 | 14,101.52 | 9,320.00 | 33.18 | 93.59 | 90.01 | -218.38 | 1,581.74 | 1,895.34 | 1,768.92 | 126.42 | 14.992 | | |
| 9,500.00 | 9,314.56 | 14,055.77 | 9,320.00 | 33.35 | 92.89 | 90.01 | -264.12 | 1,581.73 | 1,904.29 | 1,778.43 | 125.86 | 15.131 | | |
| 9,550.00 | 9,328.35 | 14,008.67 | 9,320.00 | 33.52 | 92.16 | 90.01 | -311.23 | 1,581.72 | 1,913.69 | 1,788.41 | 125.27 | 15.276 | | |
| 9,585.09 | 9,335.49 | 13,974.99 | 9,320.00 | 33.65 | 91.64 | 90.01 | -344.90 | 1,581.72 | 1,920.46 | 1,795.60 | 124.86 | 15.381 | | |
| 9,600.00 | 9,337.97 | 13,960.58 | 9,320.00 | 33.71 | 91.42 | 90.01 | -359.32 | 1,581.72 | 1,923.36 | 1,798.68 | 124.68 | 15.426 | | |
| 9,650.00 | 9,344.58 | 13,912.00 | 9,320.00 | 33.91 | 90.67 | 90.01 | -407.90 | 1,581.71 | 1,933.16 | 1,809.07 | 124.09 | 15.578 | | |
| 9,700.00 | 9,348.60 | 13,863.14 | 9,320.00 | 34.12 | 89.92 | 90.01 | -456.75 | 1,581.70 | 1,943.02 | 1,819.50 | 123.52 | 15.731 | | |
| 9,751.76 | 9,350.00 | 13,812.43 | 9,320.00 | 34.34 | 89.14 | 90.01 | -507.47 | 1,581.69 | 1,953.23 | 1,830.30 | 122.93 | 15.889 | | |
| 9,800.00 | 9,350.00 | 13,765.02 | 9,320.00 | 34.57 | 88.41 | 90.01 | -554.88 | 1,581.68 | 1,962.14 | 1,839.74 | 122.40 | 16.030 | | |
| 9,900.00 | 9,350.00 | 13,666.11 | 9,320.00 | 35.08 | 86.90 | 90.01 | -653.79 | 1,581.67 | 1,976.79 | 1,855.43 | 121.36 | 16.289 | | |
| 10,000.00 | 9,350.00 | 13,566.56 | 9,320.00 | 35.64 | 85.38 | 90.01 | -753.33 | 1,581.65 | 1,986.24 | 1,865.87 | 120.37 | 16.501 | | |
| 10,100.00 | 9,350.00 | 13,466.67 | 9,320.00 | 36.26 | 83.87 | 90.01 | -853.23 | 1,581.64 | 1,990.47 | 1,871.01 | 119.46 | 16.662 | | |
| 10,134.88 | 9,350.00 | 13,431.78 | 9,320.00 | 36.49 | 83.34 | 90.01 | -888.11 | 1,581.63 | 1,990.71 | 1,871.56 | 119.15 | 16.707 | | |
| 10,200.00 | 9,350.00 | 13,366.67 | 9,320.00 | 36.93 | 82.35 | 90.01 | -953.23 | 1,581.62 | 1,990.57 | 1,871.96 | 118.61 | 16.782 | | |
| 10,300.00 | 9,350.00 | 13,266.67 | 9,320.00 | 37.65 | 80.84 | 90.01 | -1,053.23 | 1,581.60 | 1,990.36 | 1,872.53 | 117.83 | 16.892 | | |
| 10,400.00 | 9,350.00 | 13,166.67 | 9,320.00 | 38.43 | 79.34 | 90.01 | -1,153.23 | 1,581.59 | 1,990.14 | 1,873.03 | 117.11 | 16.993 | | |
| 10,500.00 | 9,350.00 | 13,066.67 | 9,320.00 | 39.27 | 77.84 | 90.01 | -1,253.23 | 1,581.57 | 1,989.93 | 1,873.47 | 116.46 | 17.087 | | |
| 10,600.00 | 9,350.00 | 12,966.67 | 9,320.00 | 40.16 | 76.35 | 90.01 | -1,353.23 | 1,581.56 | 1,989.71 | 1,873.85 | 115.86 | 17.173 | | |
| 10,700.00 | 9,350.00 | 12,866.67 | 9,320.00 | 41.09 | 74.87 | 90.01 | -1,453.23 | 1,581.54 | 1,989.50 | 1,874.18 | 115.32 | 17.252 | | |
| 10,800.00 | 9,350.00 | 12,766.67 | 9,320.00 | 42.07 | 73.39 | 90.01 | -1,553.23 | 1,581.52 | 1,989.28 | 1,874.45 | 114.83 | 17.324 | | |
| 10,900.00 | 9,350.00 | 12,666.67 | 9,320.00 | 43.09 | 71.92 | 90.01 | -1,653.23 | 1,581.51 | 1,989.07 | 1,874.68 | 114.39 | 17.389 | | |
| 11,000.00 | 9,350.00 | 12,566.67 | 9,320.00 | 44.15 | 70.46 | 90.01 | -1,753.23 | 1,581.49 | 1,988.85 | 1,874.86 | 113.99 | 17.447 | | |
| 11,100.00 | 9,350.00 | 12,466.67 | 9,320.00 | 45.24 | 69.01 | 90.01 | -1,853.23 | 1,581.47 | 1,988.64 | 1,875.00 | 113.64 | 17.499 | | |
| 11,200.00 | 9,350.00 | 12,366.67 | 9,320.00 | 46.37 | 67.57 | 90.01 | -1,953.23 | 1,581.46 | 1,988.42 | 1,875.09 | 113.33 | 17.545 | | |
| 11,300.00 | 9,350.00 | 12,266.67 | 9,320.00 | 47.53 | 66.14 | 90.01 | -2,053.23 | 1,581.44 | 1,988.21 | 1,875.14 | 113.07 | 17.585 | | |
| 11,400.00 | 9,350.00 | 12,166.67 | 9,320.00 | 48.72 | 64.72 | 90.01 | -2,153.23 | 1,581.43 | 1,987.99 | 1,875.16 | 112.84 | 17.618 | | |
| 11,500.00 | 9,350.00 | 12,066.67 | 9,320.00 | 49.93 | 63.31 | 90.01 | -2,253.23 | 1,581.41 | 1,987.78 | 1,875.13 | 112.65 | 17.646 | | |
| 11,600.00 | 9,350.00 | 11,966.67 | 9,320.00 | 51.17 | 61.91 | 90.01 | -2,353.23 | 1,581.39 | 1,987.57 | 1,875.07 | 112.49 | 17.668 | | |
| 11,700.00 | 9,350.00 | 11,866.67 | 9,320.00 | 52.43 | 60.52 | 90.01 | -2,453.23 | 1,581.38 | 1,987.35 | 1,874.98 | 112.37 | 17.685 | | |
| 11,800.00 | 9,350.00 | 11,766.67 | 9,320.00 | 53.72 | 59.15 | 90.01 | -2,553.23 | 1,581.36 | 1,987.14 | 1,874.84 | 112.29 | 17.696 | | |
| 11,900.00 | 9,350.00 | 11,666.67 | 9,320.00 | 55.02 | 57.80 | 90.01 | -2,653.22 | 1,581.35 | 1,986.92 | 1,874.68 | 112.24 | 17.702 | | |
| 12,000.00 | 9,350.00 | 11,566.67 | 9,320.00 | 56.34 | 56.46 | 90.01 | -2,753.22 | 1,581.33 | 1,986.71 | 1,874.48 | 112.23 | 17.703 | | |
| 12,100.00 | 9,350.00 | 11,466.67 | 9,320.00 | 57.68 | 55.14 | 90.01 | -2,853.22 | 1,581.31 | 1,986.49 | 1,874.25 | 112.25 | 17.698 | | |
| 12,200.00 | 9,350.00 | 11,366.67 | 9,320.00 | 59.04 | 53.83 | 90.01 | -2,953.22 | 1,581.30 | 1,986.28 | 1,873.98 | 112.30 | 17.687 | | |
| 12,300.00 | 9,350.00 | 11,266.67 | 9,320.00 | 60.41 | 52.55 | 90.01 | -3,053.22 | 1,581.28 | 1,986.06 | 1,873.67 | 112.39 | 17.672 | | |
| 12,400.00 | 9,350.00 | 11,166.67 | 9,320.00 | 61.79 | 51.29 | 90.01 | -3,153.22 | 1,581.27 | 1,985.85 | 1,873.34 | 112.51 | 17.650 | | |
| 12,500.00 | 9,350.00 | 11,066.67 | 9,320.00 | 63.19 | 50.05 | 90.01 | -3,253.22 | 1,581.25 | 1,985.63 | 1,872.96 | 112.67 | 17.624 | | |
| 12,600.00 | 9,350.00 | 10,966.67 | 9,320.00 | 64.60 | 48.83 | 90.01 | -3,353.22 | 1,581.23 | 1,985.42 | 1,872.55 | 112.86 | 17.591 | | |
| 12,700.00 | 9,350.00 | 10,866.67 | 9,320.00 | 66.02 | 47.64 | 90.01 | -3,453.22 | 1,581.22 | 1,985.20 | 1,872.11 | 113.10 | 17.553 | | |
| 12,800.00 | 9,350.00 | 10,766.67 | 9,320.00 | 67.46 | 46.48 | 90.01 | -3,553.22 | 1,581.20 | 1,984.99 | 1,871.62 | 113.37 | 17.509 | | |
| 12,900.00 | 9,350.00 | 10,666.67 | 9,320.00 | 68.90 | 45.35 | 90.01 | -3,653.22 | 1,581.18 | 1,984.77 | 1,871.09 | 113.68 | 17.460 | | |
| 13,000.00 | 9,350.00 | 10,566.67 | 9,320.00 | 70.35 | 44.26 | 90.01 | -3,753.22 | 1,581.17 | 1,984.56 | 1,870.53 | 114.03 | 17.403 | | |
| 13,100.00 | 9,350.00 | 10,466.67 | 9,320.00 | 71.81 | 43.20 | 90.01 | -3,853.22 | 1,581.15 | 1,984.34 | 1,869.91 | 114.43 | 17.341 | | |
| 13,200.00 | 9,350.00 | 10,366.67 | 9,320.00 | 73.28 | 42.18 | 90.01 | -3,953.22 | 1,581.14 | 1,984.13 | 1,869.25 | 114.88 | 17.272 | | |
| 13,300.00 | 9,350.00 | 10,266.67 | 9,320.00 | 74.76 | 41.19 | 90.01 | -4,053.22 | 1,581.12 | 1,983.91 | 1,868.54 | 115.37 | 17.196 | | |
| 13,400.00 | 9,350.00 | 10,166.67 | 9,320.00 | 76.24 | 40.26 | 90.01 | -4,153.22 | 1,581.10 | 1,983.70 | 1,867.78 | 115.92 | 17.113 | | |
| 13,500.00 | 9,350.00 | 10,066.67 | 9,320.00 | 77.73 | 39.37 | 90.01 | -4,253.22 | 1,581.09 | 1,983.48 | 1,866.97 | 116.52 | 17.023 | | |
| 13,600.00 | 9,350.00 | 9,966.67 | 9,320.00 | 79.23 | 38.53 | 90.01 | -4,353.22 | 1,581.07 | 1,983.27 | 1,866.10 | 117.17 | 16.926 | | |
| 13,700.00 | 9,350.00 | 9,866.68 | 9,320.00 | 80.73 | 37.75 | 90.01 | -4,453.22 | 1,581.06 | 1,983.05 | 1,865.16 | 117.89 | 16.821 | | |

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



MS Energy Services
Anticollision Report



Company: Matador Resources
Project: Eddy County, New Mexico (NAD 27)
Reference Site: Warren 25-23S-27E RB Fed COM
Site Error: 0.00 usft
Reference Well: #201H
Well Error: 0.00 usft
Reference Wellbore: Wellbore #1
Reference Design: Design #3

Local Co-ordinate Reference: Well #201H
TVD Reference: WELL @ 3162.00usft (Patterson 297)
MD Reference: WELL @ 3162.00usft (Patterson 297)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: EDM Conroe
Offset TVD Reference: Offset Datum

| Offset Design Warren 25-23S-27E RB Fed COM - #206H - Wellbore #1 - Design #1 | | | | | | | | | | | | | Offset Site Error: | 0.00 usft |
|--|----------------|----------------|----------------|-----------------|--------|--------------------|------------------------------|----------|-----------------|------------------|--------------------|-------------------|--------------------|-----------|
| Survey Program: 0-MWD | | | | | | | | | | | | | Offset Well Error: | 0.00 usft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | Warning | | | | |
| Measured Depth | Vertical Depth | Measured Depth | Vertical Depth | Reference | Offset | Azimuth from North | Offset Wellbore Centre +N/-S | +E/-W | Between Centres | Between Ellipses | Minimum Separation | Separation Factor | Warning | |
| (usft) | (usft) | (usft) | (usft) | (usft) | (usft) | (°) | (usft) | (usft) | (usft) | (usft) | (usft) | | | |
| 13,800.00 | 9,350.00 | 9,766.68 | 9,320.00 | 82.24 | 37.01 | 90.01 | -4,553.22 | 1,581.04 | 1,982.84 | 1,864.17 | 118.67 | 16.709 | | |
| 13,900.00 | 9,350.00 | 9,668.23 | 9,317.09 | 83.76 | 36.35 | 89.96 | -4,651.59 | 1,581.02 | 1,982.65 | 1,863.14 | 119.51 | 16.590 | | |
| 13,969.31 | 9,350.00 | 9,601.10 | 9,309.51 | 84.81 | 35.92 | 89.89 | -4,718.28 | 1,581.01 | 1,982.60 | 1,862.49 | 120.11 | 16.506 | | |
| 14,000.00 | 9,350.00 | 9,571.88 | 9,304.74 | 85.28 | 35.74 | 89.83 | -4,747.10 | 1,581.01 | 1,982.62 | 1,862.24 | 120.38 | 16.469 | | |
| 14,100.00 | 9,350.00 | 9,482.43 | 9,281.78 | 86.81 | 35.20 | 89.44 | -4,833.46 | 1,580.99 | 1,983.01 | 1,861.73 | 121.28 | 16.350 | | |
| 14,200.00 | 9,350.00 | 9,401.77 | 9,249.77 | 88.34 | 34.75 | 88.69 | -4,907.42 | 1,580.98 | 1,984.39 | 1,862.21 | 122.19 | 16.241 | | |
| 14,203.92 | 9,350.00 | 9,398.82 | 9,248.40 | 88.40 | 34.73 | 88.65 | -4,910.04 | 1,580.98 | 1,984.47 | 1,862.25 | 122.22 | 16.237 | | |

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



MS Energy Services
Anticollision Report



Company: Matador Resources
Project: Eddy County, New Mexico (NAD 27)
Reference Site: Warren 25-23S-27E RB Fed COM
Site Error: 0.00 usft
Reference Well: #201H
Well Error: 0.00 usft
Reference Wellbore: Wellbore #1
Reference Design: Design #3

Local Co-ordinate Reference: Well #201H
TVD Reference: WELL @ 3162.00usft (Patterson 297)
MD Reference: WELL @ 3162.00usft (Patterson 297)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at
Database: EDM Conroe
Offset TVD Reference: Offset Datum

| Offset Design Warren 25-23S-27E RB Fed COM - #221H - Wellbore #1 - Design #3 | | | | | | | | | | | | | Offset Site Error: | 0.00 usft |
|--|-----------------------|-----------------------|-----------------------|------------------|---------------|------------------------|------------------------------------|-------------|------------------------|-------------------------|---------------------------|-------------------|--------------------|-----------|
| Survey Program: 0-MWD | | | | | | | | | | | | | Offset Well Error: | 0.00 usft |
| Reference | | Offset | | Semi Major Axis | | Distance | | | | | Warning | | | |
| Measured Depth (usft) | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Azimuth from North (°) | Offset Wellbore Centre +N-S (usft) | +E-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -90.01 | 0.00 | -29.99 | 29.99 | | | | | |
| 100.00 | 100.00 | 100.00 | 100.00 | 0.13 | 0.13 | -90.01 | 0.00 | -29.99 | 29.99 | 29.74 | 0.25 | 117.840 | | |
| 200.00 | 200.00 | 200.00 | 200.00 | 0.49 | 0.49 | -90.01 | 0.00 | -29.99 | 29.99 | 29.02 | 0.97 | 30.873 | | |
| 300.00 | 300.00 | 300.00 | 300.00 | 0.84 | 0.84 | -90.01 | 0.00 | -29.99 | 29.99 | 28.30 | 1.69 | 17.764 | | |
| 400.00 | 400.00 | 400.00 | 400.00 | 1.20 | 1.20 | -90.01 | 0.00 | -29.99 | 29.99 | 27.59 | 2.41 | 12.469 | | |
| 500.00 | 500.00 | 500.00 | 500.00 | 1.56 | 1.56 | -90.01 | 0.00 | -29.99 | 29.99 | 26.87 | 3.12 | 9.606 | | |
| 600.00 | 600.00 | 600.00 | 600.00 | 1.92 | 1.92 | -90.01 | 0.00 | -29.99 | 29.99 | 26.15 | 3.84 | 7.812 | | |
| 700.00 | 700.00 | 700.00 | 700.00 | 2.28 | 2.28 | -90.01 | 0.00 | -29.99 | 29.99 | 25.44 | 4.56 | 6.583 | | |
| 800.00 | 800.00 | 800.00 | 800.00 | 2.64 | 2.64 | -90.01 | 0.00 | -29.99 | 29.99 | 24.72 | 5.27 | 5.688 | CC | |
| 900.00 | 899.99 | 899.26 | 899.24 | 2.99 | 2.99 | -90.36 | 0.38 | -31.22 | 30.06 | 24.08 | 5.98 | 5.030 | | |
| 1,000.00 | 999.91 | 998.51 | 998.42 | 3.34 | 3.33 | -91.43 | 1.54 | -34.91 | 30.25 | 23.59 | 6.67 | 4.538 | | |
| 1,066.67 | 1,066.45 | 1,068.67 | 1,064.45 | 3.58 | 3.58 | -92.52 | 2.74 | -38.74 | 30.47 | 23.33 | 7.14 | 4.266 | | |
| 1,100.00 | 1,099.70 | 1,102.01 | 1,097.70 | 3.70 | 3.70 | -93.12 | 3.43 | -40.96 | 30.61 | 23.24 | 7.38 | 4.150 | | |
| 1,200.00 | 1,199.46 | 1,202.01 | 1,197.45 | 4.06 | 4.06 | -94.87 | 5.52 | -47.61 | 31.06 | 22.98 | 8.08 | 3.843 | | |
| 1,300.00 | 1,299.22 | 1,302.02 | 1,297.20 | 4.42 | 4.42 | -96.57 | 7.60 | -54.27 | 31.54 | 22.75 | 8.80 | 3.587 | | |
| 1,400.00 | 1,398.97 | 1,402.02 | 1,398.95 | 4.78 | 4.78 | -98.22 | 9.69 | -60.92 | 32.05 | 22.54 | 9.51 | 3.370 | | |
| 1,500.00 | 1,498.73 | 1,502.03 | 1,498.71 | 5.15 | 5.15 | -99.81 | 11.78 | -67.58 | 32.58 | 22.36 | 10.23 | 3.186 | | |
| 1,600.00 | 1,598.48 | 1,602.03 | 1,598.46 | 5.52 | 5.52 | -101.36 | 13.86 | -74.24 | 33.14 | 22.19 | 10.95 | 3.027 | | |
| 1,700.00 | 1,698.24 | 1,702.04 | 1,698.21 | 5.88 | 5.88 | -102.85 | 15.95 | -80.89 | 33.72 | 22.05 | 11.67 | 2.890 | | |
| 1,800.00 | 1,798.00 | 1,802.04 | 1,795.96 | 6.25 | 6.25 | -104.29 | 18.03 | -87.55 | 34.32 | 21.93 | 12.39 | 2.769 | | |
| 1,900.00 | 1,897.75 | 1,902.05 | 1,895.71 | 6.62 | 6.62 | -105.67 | 20.12 | -94.20 | 34.94 | 21.83 | 13.12 | 2.664 | | |
| 2,000.00 | 1,997.51 | 2,002.05 | 1,995.46 | 6.99 | 6.99 | -107.01 | 22.21 | -100.86 | 35.59 | 21.74 | 13.85 | 2.570 | | |
| 2,100.00 | 2,097.27 | 2,102.06 | 2,095.21 | 7.36 | 7.36 | -108.30 | 24.29 | -107.52 | 36.25 | 21.67 | 14.58 | 2.487 | | |
| 2,200.00 | 2,197.02 | 2,202.07 | 2,194.96 | 7.73 | 7.73 | -109.55 | 26.38 | -114.17 | 36.93 | 21.62 | 15.31 | 2.412 | | |
| 2,300.00 | 2,296.78 | 2,302.07 | 2,294.71 | 8.10 | 8.10 | -110.75 | 28.46 | -120.83 | 37.62 | 21.58 | 16.04 | 2.346 | | |
| 2,400.00 | 2,396.54 | 2,402.08 | 2,394.46 | 8.47 | 8.47 | -111.90 | 30.55 | -127.49 | 38.33 | 21.56 | 16.77 | 2.286 | ES | |
| 2,500.00 | 2,496.29 | 2,497.92 | 2,494.22 | 8.84 | 8.83 | -113.01 | 32.64 | -134.14 | 39.06 | 21.57 | 17.49 | 2.233 | | |
| 2,600.00 | 2,595.95 | 2,597.15 | 2,593.11 | 9.22 | 9.20 | -114.40 | 35.07 | -141.92 | 39.89 | 21.67 | 18.22 | 2.189 | | |
| 2,700.00 | 2,695.35 | 2,696.37 | 2,691.74 | 9.61 | 9.58 | -116.14 | 38.28 | -152.15 | 41.02 | 22.06 | 18.96 | 2.163 | | |
| 2,766.97 | 2,761.75 | 2,762.81 | 2,757.62 | 9.87 | 9.84 | -117.48 | 40.85 | -160.36 | 41.94 | 22.48 | 19.46 | 2.155 | | |
| 2,800.00 | 2,794.45 | 2,804.21 | 2,790.29 | 10.00 | 10.01 | -118.09 | 42.23 | -164.74 | 42.46 | 22.71 | 19.75 | 2.150 | | |
| 2,900.00 | 2,893.48 | 2,904.23 | 2,889.29 | 10.40 | 10.41 | -119.86 | 46.39 | -178.02 | 44.06 | 23.53 | 20.53 | 2.146 | | |
| 3,000.00 | 2,992.50 | 3,004.25 | 2,988.30 | 10.80 | 10.81 | -121.50 | 50.55 | -191.31 | 45.70 | 24.39 | 21.32 | 2.144 | SF | |
| 3,100.00 | 3,091.53 | 3,095.73 | 3,087.30 | 11.20 | 11.17 | -123.02 | 54.71 | -204.59 | 47.38 | 25.30 | 22.08 | 2.146 | | |
| 3,200.00 | 3,190.56 | 3,195.71 | 3,186.31 | 11.60 | 11.58 | -124.43 | 58.88 | -217.87 | 49.09 | 26.22 | 22.87 | 2.146 | | |
| 3,300.00 | 3,289.58 | 3,295.69 | 3,285.31 | 12.00 | 11.98 | -125.75 | 63.04 | -231.15 | 50.82 | 27.15 | 23.67 | 2.147 | | |
| 3,400.00 | 3,388.61 | 3,404.34 | 3,384.32 | 12.41 | 12.42 | -126.98 | 67.20 | -244.43 | 52.58 | 28.07 | 24.51 | 2.146 | | |
| 3,474.21 | 3,462.09 | 3,469.86 | 3,457.79 | 12.71 | 12.69 | -127.85 | 70.29 | -254.29 | 53.90 | 28.83 | 25.07 | 2.150 | | |
| 3,500.00 | 3,467.64 | 3,504.36 | 3,483.32 | 12.81 | 12.83 | -128.05 | 71.37 | -257.72 | 54.40 | 29.09 | 25.31 | 2.149 | | |
| 3,600.00 | 3,586.92 | 3,604.40 | 3,582.31 | 13.21 | 13.24 | -127.34 | 75.53 | -271.00 | 57.08 | 31.00 | 26.08 | 2.188 | | |
| 3,700.00 | 3,686.48 | 3,704.52 | 3,681.21 | 13.60 | 13.65 | -124.51 | 79.69 | -284.26 | 61.02 | 34.22 | 26.80 | 2.277 | | |
| 3,800.00 | 3,786.25 | 3,804.80 | 3,779.97 | 13.97 | 14.06 | -120.13 | 83.84 | -297.51 | 66.53 | 39.05 | 27.47 | 2.422 | | |
| 3,900.00 | 3,886.16 | 3,894.71 | 3,878.50 | 14.33 | 14.42 | -114.84 | 87.98 | -310.73 | 73.99 | 45.92 | 28.07 | 2.636 | | |
| 4,000.00 | 3,986.15 | 4,006.07 | 3,976.76 | 14.68 | 14.88 | -109.25 | 92.11 | -323.91 | 83.79 | 55.07 | 28.72 | 2.917 | | |
| 4,007.85 | 3,994.00 | 4,001.71 | 3,984.46 | 14.70 | 14.86 | -108.81 | 92.44 | -324.95 | 84.66 | 55.94 | 28.72 | 2.948 | | |
| 4,100.00 | 4,086.15 | 4,107.04 | 4,074.82 | 15.01 | 15.30 | -104.26 | 96.24 | -337.07 | 95.35 | 66.00 | 29.34 | 3.249 | | |
| 4,200.00 | 4,186.15 | 4,191.99 | 4,172.88 | 15.35 | 15.65 | -100.37 | 100.36 | -350.22 | 107.47 | 77.54 | 29.93 | 3.591 | | |
| 4,300.00 | 4,286.15 | 4,291.01 | 4,270.94 | 15.69 | 16.05 | -97.28 | 104.48 | -363.38 | 119.99 | 89.40 | 30.59 | 3.923 | | |
| 4,400.00 | 4,386.15 | 4,390.47 | 4,369.44 | 16.03 | 16.46 | -94.77 | 108.62 | -376.57 | 132.77 | 101.50 | 31.27 | 4.246 | | |
| 4,500.00 | 4,486.15 | 4,493.19 | 4,471.39 | 16.37 | 16.88 | -92.87 | 112.38 | -388.57 | 144.19 | 112.20 | 32.00 | 4.507 | | |
| 4,600.00 | 4,586.15 | 4,596.53 | 4,574.25 | 16.71 | 17.28 | -91.59 | 115.33 | -398.00 | 153.20 | 120.49 | 32.72 | 4.683 | | |
| 4,700.00 | 4,686.15 | 4,700.33 | 4,677.80 | 17.06 | 17.67 | -90.75 | 117.46 | -404.79 | 159.71 | 126.28 | 33.43 | 4.778 | | |

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



MS Energy Services
Anticollision Report



Company: Matador Resources
Project: Eddy County, New Mexico (NAD 27)
Reference Site: Warren 25-23S-27E RB Fed COM
Site Error: 0.00 usft
Reference Well: #201H
Well Error: 0.00 usft
Reference Wellbore: Wellbore #1
Reference Design: Design #3

Local Co-ordinate Reference: Well #201H
TVD Reference: WELL @ 3162.00usft (Patterson 297)
MD Reference: WELL @ 3162.00usft (Patterson 297)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: EDM Conroe
Offset TVD Reference: Offset Datum

| Offset Design Warren 25-23S-27E RB Fed COM - #221H - Wellbore #1 - Design #3 | | | | | | | | | | | | | Offset Site Error: | 0.00 usft |
|--|-----------------------|-----------------------|-----------------------|------------------|---------------|------------------------|-------------------------------------|--------------|------------------------|-------------------------|-------------------|---------|--------------------|-----------|
| Survey Program: 0-MWD | | | | | | | | | | | | | Offset Well Error: | 0.00 usft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | Minimum Separation | | | Warning | | |
| Measured Depth (usft) | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Azimuth from North (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Separation (usft) | Factor | | |
| 4,800.00 | 4,786.15 | 4,804.44 | 4,781.81 | 17.40 | 18.04 | -90.28 | 118.75 | -408.91 | 163.65 | 129.53 | 34.12 | 4.796 | | |
| 4,900.00 | 4,886.15 | 4,908.71 | 4,886.07 | 17.74 | 18.40 | -90.13 | 119.19 | -410.31 | 165.00 | 130.20 | 34.80 | 4.742 | | |
| 5,000.00 | 4,986.15 | 5,008.79 | 4,986.15 | 18.09 | 18.73 | -90.13 | 119.19 | -410.31 | 165.00 | 129.51 | 35.49 | 4.649 | | |
| 5,100.00 | 5,086.15 | 5,108.79 | 5,086.15 | 18.43 | 19.06 | -90.13 | 119.19 | -410.31 | 165.00 | 128.82 | 36.18 | 4.560 | | |
| 5,200.00 | 5,186.15 | 5,208.79 | 5,186.15 | 18.78 | 19.39 | -90.13 | 119.19 | -410.31 | 165.00 | 128.12 | 36.88 | 4.474 | | |
| 5,300.00 | 5,286.15 | 5,308.79 | 5,286.15 | 19.12 | 19.72 | -90.13 | 119.19 | -410.31 | 165.00 | 127.43 | 37.57 | 4.391 | | |
| 5,400.00 | 5,386.15 | 5,408.79 | 5,386.15 | 19.47 | 20.05 | -90.13 | 119.19 | -410.31 | 165.00 | 126.73 | 38.27 | 4.312 | | |
| 5,500.00 | 5,486.15 | 5,508.79 | 5,486.15 | 19.82 | 20.39 | -90.13 | 119.19 | -410.31 | 165.00 | 126.03 | 38.97 | 4.234 | | |
| 5,600.00 | 5,586.15 | 5,608.79 | 5,586.15 | 20.16 | 20.72 | -90.13 | 119.19 | -410.31 | 165.00 | 125.34 | 39.66 | 4.160 | | |
| 5,700.00 | 5,686.15 | 5,708.79 | 5,686.15 | 20.51 | 21.06 | -90.13 | 119.19 | -410.31 | 165.00 | 124.64 | 40.36 | 4.088 | | |
| 5,800.00 | 5,786.15 | 5,808.79 | 5,786.15 | 20.86 | 21.39 | -90.13 | 119.19 | -410.31 | 165.00 | 123.94 | 41.06 | 4.018 | | |
| 5,900.00 | 5,886.15 | 5,908.79 | 5,886.15 | 21.21 | 21.73 | -90.13 | 119.19 | -410.31 | 165.00 | 123.24 | 41.76 | 3.951 | | |
| 6,000.00 | 5,986.15 | 6,008.79 | 5,986.15 | 21.56 | 22.07 | -90.13 | 119.19 | -410.31 | 165.00 | 122.54 | 42.46 | 3.886 | | |
| 6,100.00 | 6,086.15 | 6,108.79 | 6,086.15 | 21.91 | 22.41 | -90.13 | 119.19 | -410.31 | 165.00 | 121.84 | 43.16 | 3.823 | | |
| 6,200.00 | 6,186.15 | 6,208.79 | 6,186.15 | 22.25 | 22.75 | -90.13 | 119.19 | -410.31 | 165.00 | 121.14 | 43.86 | 3.762 | | |
| 6,300.00 | 6,286.15 | 6,308.79 | 6,286.15 | 22.60 | 23.09 | -90.13 | 119.19 | -410.31 | 165.00 | 120.44 | 44.56 | 3.703 | | |
| 6,400.00 | 6,386.15 | 6,408.79 | 6,386.15 | 22.95 | 23.43 | -90.13 | 119.19 | -410.31 | 165.00 | 119.73 | 45.27 | 3.645 | | |
| 6,500.00 | 6,486.15 | 6,508.79 | 6,486.15 | 23.30 | 23.77 | -90.13 | 119.19 | -410.31 | 165.00 | 119.03 | 45.97 | 3.589 | | |
| 6,600.00 | 6,586.15 | 6,608.79 | 6,586.15 | 23.65 | 24.11 | -90.13 | 119.19 | -410.31 | 165.00 | 118.33 | 46.67 | 3.535 | | |
| 6,700.00 | 6,686.15 | 6,708.79 | 6,686.15 | 24.00 | 24.45 | -90.13 | 119.19 | -410.31 | 165.00 | 117.62 | 47.38 | 3.483 | | |
| 6,800.00 | 6,786.15 | 6,808.79 | 6,786.15 | 24.36 | 24.79 | -90.13 | 119.19 | -410.31 | 165.00 | 116.92 | 48.08 | 3.432 | | |
| 6,900.00 | 6,886.15 | 6,908.79 | 6,886.15 | 24.71 | 25.14 | -90.13 | 119.19 | -410.31 | 165.00 | 116.22 | 48.78 | 3.382 | | |
| 7,000.00 | 6,986.15 | 7,008.79 | 6,986.15 | 25.06 | 25.48 | -90.13 | 119.19 | -410.31 | 165.00 | 115.51 | 49.49 | 3.334 | | |
| 7,100.00 | 7,086.15 | 7,108.79 | 7,086.15 | 25.41 | 25.82 | -90.13 | 119.19 | -410.31 | 165.00 | 114.81 | 50.19 | 3.287 | | |
| 7,200.00 | 7,186.15 | 7,208.79 | 7,186.15 | 25.76 | 26.17 | -90.13 | 119.19 | -410.31 | 165.00 | 114.10 | 50.90 | 3.242 | | |
| 7,300.00 | 7,286.15 | 7,308.79 | 7,286.15 | 26.11 | 26.51 | -90.13 | 119.19 | -410.31 | 165.00 | 113.40 | 51.60 | 3.197 | | |
| 7,400.00 | 7,386.15 | 7,408.79 | 7,386.15 | 26.46 | 26.85 | -90.13 | 119.19 | -410.31 | 165.00 | 112.69 | 52.31 | 3.154 | | |
| 7,500.00 | 7,486.15 | 7,508.79 | 7,486.15 | 26.82 | 27.20 | -90.13 | 119.19 | -410.31 | 165.00 | 111.98 | 53.02 | 3.112 | | |
| 7,600.00 | 7,586.15 | 7,608.79 | 7,586.15 | 27.17 | 27.55 | -90.13 | 119.19 | -410.31 | 165.00 | 111.28 | 53.72 | 3.071 | | |
| 7,700.00 | 7,686.15 | 7,708.79 | 7,686.15 | 27.52 | 27.89 | -90.13 | 119.19 | -410.31 | 165.00 | 110.57 | 54.43 | 3.031 | | |
| 7,800.00 | 7,786.15 | 7,808.79 | 7,786.15 | 27.87 | 28.24 | -90.13 | 119.19 | -410.31 | 165.00 | 109.86 | 55.14 | 2.993 | | |
| 7,900.00 | 7,886.15 | 7,908.79 | 7,886.15 | 28.23 | 28.58 | -90.13 | 119.19 | -410.31 | 165.00 | 109.16 | 55.84 | 2.955 | | |
| 8,000.00 | 7,986.15 | 8,008.79 | 7,986.15 | 28.58 | 28.93 | -90.13 | 119.19 | -410.31 | 165.00 | 108.45 | 56.55 | 2.918 | | |
| 8,100.00 | 8,086.15 | 8,108.79 | 8,086.15 | 28.93 | 29.28 | -90.13 | 119.19 | -410.31 | 165.00 | 107.74 | 57.26 | 2.882 | | |
| 8,200.00 | 8,186.15 | 8,208.79 | 8,186.15 | 29.29 | 29.62 | -90.13 | 119.19 | -410.31 | 165.00 | 107.03 | 57.97 | 2.846 | | |
| 8,300.00 | 8,286.15 | 8,308.79 | 8,286.15 | 29.64 | 29.97 | -90.13 | 119.19 | -410.31 | 165.00 | 106.32 | 58.68 | 2.812 | | |
| 8,400.00 | 8,386.15 | 8,408.79 | 8,386.15 | 29.99 | 30.32 | -90.13 | 119.19 | -410.31 | 165.00 | 105.62 | 59.38 | 2.779 | | |
| 8,500.00 | 8,486.15 | 8,508.79 | 8,486.15 | 30.35 | 30.67 | -90.13 | 119.19 | -410.31 | 165.00 | 104.91 | 60.09 | 2.746 | | |
| 8,600.00 | 8,586.15 | 8,608.79 | 8,586.15 | 30.70 | 31.02 | -90.13 | 119.19 | -410.31 | 165.00 | 104.20 | 60.80 | 2.714 | | |
| 8,700.00 | 8,686.15 | 8,708.79 | 8,686.15 | 31.05 | 31.36 | -90.13 | 119.19 | -410.31 | 165.00 | 103.49 | 61.51 | 2.682 | | |
| 8,785.09 | 8,771.24 | 8,806.12 | 8,771.24 | 31.35 | 31.70 | -90.13 | 119.19 | -410.31 | 165.00 | 102.84 | 62.16 | 2.655 | | |
| 8,800.00 | 8,786.15 | 8,808.79 | 8,786.15 | 31.41 | 31.71 | -90.06 | 119.19 | -410.31 | 164.96 | 102.74 | 62.22 | 2.651 | | |
| 8,850.00 | 8,836.01 | 8,858.65 | 8,836.01 | 31.57 | 31.89 | -88.87 | 119.19 | -410.31 | 164.31 | 101.76 | 62.54 | 2.627 | | |
| 8,900.00 | 8,885.38 | 8,908.02 | 8,885.38 | 31.72 | 32.06 | -86.17 | 119.19 | -410.31 | 163.10 | 100.24 | 62.85 | 2.595 | | |
| 8,950.00 | 8,933.88 | 8,956.52 | 8,933.88 | 31.88 | 32.23 | -81.93 | 119.19 | -410.31 | 161.95 | 98.80 | 63.15 | 2.564 | | |
| 8,980.26 | 8,962.66 | 8,985.29 | 8,962.66 | 31.97 | 32.33 | -78.62 | 119.19 | -410.31 | 161.68 | 98.35 | 63.34 | 2.553 | | |
| 9,000.00 | 8,981.15 | 9,003.78 | 8,981.15 | 32.02 | 32.39 | -76.17 | 119.19 | -410.31 | 161.83 | 98.37 | 63.46 | 2.550 | | |
| 9,050.00 | 9,026.81 | 9,049.45 | 9,026.81 | 32.16 | 32.55 | -69.06 | 119.19 | -410.31 | 163.96 | 100.18 | 63.79 | 2.570 | | |
| 9,100.00 | 9,070.53 | 9,106.83 | 9,070.53 | 32.29 | 32.75 | -60.96 | 119.19 | -410.31 | 169.68 | 105.48 | 64.20 | 2.643 | | |
| 9,150.00 | 9,111.98 | 9,134.61 | 9,111.98 | 32.42 | 32.85 | -52.46 | 119.19 | -410.31 | 180.13 | 115.59 | 64.54 | 2.791 | | |
| 9,200.00 | 9,150.83 | 9,173.46 | 9,150.83 | 32.53 | 32.99 | -44.18 | 119.19 | -410.31 | 196.04 | 131.09 | 64.95 | 3.018 | | |
| 9,250.00 | 9,186.79 | 9,209.43 | 9,186.79 | 32.65 | 33.11 | -36.62 | 119.19 | -410.31 | 217.56 | 152.23 | 65.33 | 3.330 | | |

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



MS Energy Services
Anticollision Report



Company: Matador Resources
Project: Eddy County, New Mexico (NAD 27)
Reference Site: Warren 25-23S-27E RB Fed COM
Site Error: 0.00 usft
Reference Well: #201H
Well Error: 0.00 usft
Reference Wellbore: Wellbore #1
Reference Design: Design #3

Local Co-ordinate Reference: Well #201H
TVD Reference: WELL @ 3162.00usft (Patterson 297)
MD Reference: WELL @ 3162.00usft (Patterson 297)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: EDM Conroe
Offset TVD Reference: Offset Datum

| Offset Design Warren 25-23S-27E RB Fed COM - #221H - Wellbore #1 - Design #3 | | | | | | | | | | | | | Offset Site Error: | 0.00 usft |
|--|-----------------------|-----------------------|-----------------------|------------------|---------------|------------------------|------------------------|-------------|------------------------|-------------------------|---------------------------|-------------------|--------------------|-----------|
| Survey Program: 0-MWD | | | | | | | | | | | | | Offset Well Error: | 0.00 usft |
| Reference | | Offset | | Semi Major Axis | | Azimuth from North (°) | Offset Wellbore Centre | | Distance | | Minimum Separation (usft) | Separation Factor | Warning | |
| Measured Depth (usft) | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | | +N-S (usft) | +E-W (usft) | Between Centres (usft) | Between Ellipses (usft) | | | | |
| 9,300.00 | 9,219.59 | 9,242.22 | 9,219.59 | 32.76 | 33.23 | -30.04 | 119.19 | -410.31 | 244.41 | 178.73 | 65.68 | 3.721 | | |
| 9,350.00 | 9,248.97 | 9,271.61 | 9,248.97 | 32.89 | 33.33 | -24.47 | 119.19 | -410.31 | 276.03 | 210.05 | 65.98 | 4.184 | | |
| 9,400.00 | 9,274.72 | 9,302.64 | 9,274.72 | 33.03 | 33.44 | -19.86 | 119.19 | -410.31 | 311.77 | 245.52 | 66.25 | 4.706 | | |
| 9,450.00 | 9,296.64 | 9,319.28 | 9,296.64 | 33.18 | 33.50 | -16.05 | 119.19 | -410.31 | 350.95 | 284.52 | 66.43 | 5.283 | | |
| 9,500.00 | 9,314.56 | 9,337.20 | 9,314.56 | 33.35 | 33.56 | -12.92 | 119.19 | -410.31 | 392.95 | 326.37 | 66.58 | 5.902 | | |
| 9,550.00 | 9,328.35 | 9,350.99 | 9,328.35 | 33.52 | 33.61 | -10.32 | 119.19 | -410.31 | 437.19 | 370.49 | 66.70 | 6.554 | | |
| 9,585.09 | 9,335.49 | 9,358.13 | 9,335.49 | 33.65 | 33.63 | -8.77 | 119.19 | -410.31 | 469.28 | 402.51 | 66.76 | 7.029 | | |
| 9,600.00 | 9,337.97 | 9,360.61 | 9,337.97 | 33.71 | 33.64 | -8.17 | 119.19 | -410.31 | 483.11 | 416.32 | 66.79 | 7.234 | | |
| 9,650.00 | 9,344.58 | 9,367.22 | 9,344.58 | 33.91 | 33.66 | -6.38 | 119.19 | -410.31 | 530.06 | 463.22 | 66.85 | 7.929 | | |
| 9,700.00 | 9,348.60 | 9,371.24 | 9,348.60 | 34.12 | 33.68 | -4.87 | 119.19 | -410.31 | 577.72 | 510.83 | 66.89 | 8.637 | | |
| 9,751.76 | 9,350.00 | 9,372.64 | 9,350.00 | 34.34 | 33.68 | -3.55 | 119.19 | -410.31 | 627.55 | 560.63 | 66.92 | 9.378 | | |
| 9,800.00 | 9,350.00 | 9,372.64 | 9,350.00 | 34.57 | 33.68 | -2.54 | 119.19 | -410.31 | 674.42 | 607.49 | 66.93 | 10.076 | | |
| 9,900.00 | 9,350.00 | 9,372.64 | 9,350.00 | 35.08 | 33.68 | -1.13 | 119.19 | -410.31 | 772.82 | 705.85 | 66.96 | 11.541 | | |
| 10,000.00 | 9,350.00 | 9,372.64 | 9,350.00 | 35.64 | 33.68 | -0.38 | 119.19 | -410.31 | 872.22 | 805.24 | 66.98 | 13.022 | | |
| 10,100.00 | 9,350.00 | 11,043.36 | 10,300.00 | 36.26 | 39.20 | 89.94 | -852.91 | -408.51 | 950.00 | 910.74 | 39.26 | 24.197 | | |
| 10,134.88 | 9,350.00 | 11,078.25 | 10,300.00 | 36.49 | 39.41 | 89.91 | -887.79 | -408.45 | 950.00 | 910.54 | 39.46 | 24.074 | | |
| 10,200.00 | 9,350.00 | 11,143.36 | 10,300.00 | 36.93 | 39.84 | 89.91 | -952.91 | -408.33 | 950.00 | 910.15 | 39.85 | 23.838 | | |
| 10,300.00 | 9,350.00 | 11,243.36 | 10,300.00 | 37.65 | 40.53 | 89.91 | -1,052.91 | -408.14 | 950.00 | 909.51 | 40.49 | 23.460 | | |
| 10,400.00 | 9,350.00 | 11,343.36 | 10,300.00 | 38.43 | 41.28 | 89.91 | -1,152.91 | -407.96 | 950.00 | 908.81 | 41.19 | 23.065 | | |
| 10,500.00 | 9,350.00 | 11,443.36 | 10,300.00 | 39.27 | 42.08 | 89.91 | -1,252.91 | -407.77 | 950.00 | 908.07 | 41.93 | 22.659 | | |
| 10,600.00 | 9,350.00 | 11,543.36 | 10,300.00 | 40.16 | 42.92 | 89.91 | -1,352.91 | -407.59 | 950.00 | 907.29 | 42.71 | 22.242 | | |
| 10,700.00 | 9,350.00 | 11,643.36 | 10,300.00 | 41.09 | 43.82 | 89.91 | -1,452.91 | -407.40 | 950.00 | 906.46 | 43.54 | 21.820 | | |
| 10,800.00 | 9,350.00 | 11,743.36 | 10,300.00 | 42.07 | 44.75 | 89.92 | -1,552.91 | -407.22 | 950.00 | 905.59 | 44.41 | 21.394 | | |
| 10,900.00 | 9,350.00 | 11,843.36 | 10,300.00 | 43.09 | 45.73 | 89.92 | -1,652.91 | -407.03 | 950.00 | 904.69 | 45.31 | 20.967 | | |
| 11,000.00 | 9,350.00 | 11,943.36 | 10,300.00 | 44.15 | 46.75 | 89.92 | -1,752.91 | -406.85 | 950.00 | 903.75 | 46.25 | 20.540 | | |
| 11,100.00 | 9,350.00 | 12,043.36 | 10,300.00 | 45.24 | 47.80 | 89.92 | -1,852.91 | -406.66 | 950.00 | 902.78 | 47.22 | 20.117 | | |
| 11,200.00 | 9,350.00 | 12,143.36 | 10,300.00 | 46.37 | 48.88 | 89.92 | -1,952.91 | -406.48 | 950.00 | 901.77 | 48.23 | 19.698 | | |
| 11,300.00 | 9,350.00 | 12,243.36 | 10,300.00 | 47.53 | 50.00 | 89.92 | -2,052.90 | -406.29 | 950.00 | 900.74 | 49.26 | 19.284 | | |
| 11,400.00 | 9,350.00 | 12,343.36 | 10,300.00 | 48.72 | 51.14 | 89.92 | -2,152.90 | -406.11 | 950.00 | 899.67 | 50.33 | 18.877 | | |
| 11,500.00 | 9,350.00 | 12,443.36 | 10,300.00 | 49.93 | 52.32 | 89.92 | -2,252.90 | -405.92 | 950.00 | 898.59 | 51.41 | 18.477 | | |
| 11,600.00 | 9,350.00 | 12,543.36 | 10,300.00 | 51.17 | 53.51 | 89.92 | -2,352.90 | -405.74 | 950.00 | 897.47 | 52.53 | 18.086 | | |
| 11,700.00 | 9,350.00 | 12,643.36 | 10,300.00 | 52.43 | 54.74 | 89.92 | -2,452.90 | -405.55 | 950.00 | 896.34 | 53.66 | 17.704 | | |
| 11,800.00 | 9,350.00 | 12,743.36 | 10,300.00 | 53.72 | 55.98 | 89.92 | -2,552.90 | -405.37 | 950.00 | 895.18 | 54.82 | 17.330 | | |
| 11,900.00 | 9,350.00 | 12,843.36 | 10,300.00 | 55.02 | 57.25 | 89.93 | -2,652.90 | -405.18 | 950.00 | 894.01 | 55.99 | 16.966 | | |
| 12,000.00 | 9,350.00 | 12,943.36 | 10,300.00 | 56.34 | 58.53 | 89.93 | -2,752.90 | -405.00 | 950.00 | 892.81 | 57.19 | 16.611 | | |
| 12,100.00 | 9,350.00 | 13,043.36 | 10,300.00 | 57.68 | 59.83 | 89.93 | -2,852.90 | -404.81 | 950.00 | 891.60 | 58.40 | 16.266 | | |
| 12,200.00 | 9,350.00 | 13,143.36 | 10,300.00 | 59.04 | 61.15 | 89.93 | -2,952.90 | -404.63 | 950.00 | 890.37 | 59.63 | 15.931 | | |
| 12,300.00 | 9,350.00 | 13,243.36 | 10,300.00 | 60.41 | 62.49 | 89.93 | -3,052.90 | -404.44 | 950.00 | 889.12 | 60.88 | 15.605 | | |
| 12,400.00 | 9,350.00 | 13,343.36 | 10,300.00 | 61.79 | 63.84 | 89.93 | -3,152.90 | -404.26 | 950.00 | 887.86 | 62.14 | 15.289 | | |
| 12,500.00 | 9,350.00 | 13,443.36 | 10,300.00 | 63.19 | 65.20 | 89.94 | -3,252.90 | -404.07 | 950.00 | 886.59 | 63.41 | 14.982 | | |
| 12,600.00 | 9,350.00 | 13,543.36 | 10,300.00 | 64.60 | 66.58 | 89.94 | -3,352.90 | -403.89 | 950.00 | 885.30 | 64.70 | 14.684 | | |
| 12,700.00 | 9,350.00 | 13,643.36 | 10,300.00 | 66.02 | 67.97 | 89.94 | -3,452.90 | -403.70 | 950.00 | 884.00 | 66.00 | 14.395 | | |
| 12,800.00 | 9,350.00 | 13,743.36 | 10,300.00 | 67.46 | 69.38 | 89.95 | -3,552.90 | -403.52 | 950.00 | 882.69 | 67.31 | 14.115 | | |
| 12,900.00 | 9,350.00 | 13,843.36 | 10,300.00 | 68.90 | 70.79 | 89.95 | -3,652.90 | -403.33 | 950.00 | 881.37 | 68.63 | 13.843 | | |
| 13,000.00 | 9,350.00 | 13,943.36 | 10,300.00 | 70.35 | 72.21 | 89.95 | -3,752.90 | -403.15 | 950.00 | 880.04 | 69.96 | 13.579 | | |
| 13,100.00 | 9,350.00 | 14,043.36 | 10,300.00 | 71.81 | 73.65 | 89.96 | -3,852.90 | -402.96 | 950.00 | 878.70 | 71.30 | 13.324 | | |
| 13,200.00 | 9,350.00 | 14,143.36 | 10,300.00 | 73.28 | 75.09 | 89.97 | -3,952.90 | -402.78 | 950.00 | 877.35 | 72.65 | 13.076 | | |
| 13,300.00 | 9,350.00 | 14,243.36 | 10,300.00 | 74.76 | 76.54 | 89.98 | -4,052.90 | -402.59 | 950.00 | 875.99 | 74.01 | 12.836 | | |
| 13,400.00 | 9,350.00 | 14,343.36 | 10,300.00 | 76.24 | 78.00 | 89.99 | -4,152.90 | -402.41 | 950.00 | 874.62 | 75.38 | 12.604 | | |
| 13,500.00 | 9,350.00 | 14,443.36 | 10,300.00 | 77.73 | 79.47 | 90.00 | -4,252.90 | -402.22 | 950.00 | 873.25 | 76.75 | 12.378 | | |
| 13,600.00 | 9,350.00 | 14,543.36 | 10,300.00 | 79.23 | 80.94 | 90.02 | -4,352.90 | -402.04 | 950.00 | 871.87 | 78.13 | 12.159 | | |
| 13,700.00 | 9,350.00 | 14,643.36 | 10,300.00 | 80.73 | 82.42 | 90.04 | -4,452.90 | -401.85 | 950.00 | 870.48 | 79.52 | 11.947 | | |

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



MS Energy Services
Anticollision Report



Company: Matador Resources
Project: Eddy County, New Mexico (NAD 27)
Reference Site: Warren 25-23S-27E RB Fed COM
Site Error: 0.00 usft
Reference Well: #201H
Well Error: 0.00 usft
Reference Wellbore: Wellbore #1
Reference Design: Design #3

Local Co-ordinate Reference: Well #201H
TVD Reference: WELL @ 3162.00usft (Patterson 297)
MD Reference: WELL @ 3162.00usft (Patterson 297)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: EDM Conroe
Offset TVD Reference: Offset Datum

| Offset Design Warren 25-23S-27E RB Fed COM - #221H - Wellbore #1 - Design #3 | | | | | | | | | | | | | Offset Site Error: | 0.00 usft |
|--|-----------------------|-----------------------|-----------------------|------------------|---------------|------------------------|------------------------------------|-------------|------------------------|-------------------------|---------------------------|-------------------|--------------------|-----------|
| Survey Program: 0-MWD | | | | | | | | | | | | | Offset Well Error: | 0.00 usft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning | |
| Measured Depth (usft) | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Azimuth from North (°) | Offset Wellbore Centre +N-S (usft) | +E-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | | |
| 13,800.00 | 9,350.00 | 14,743.36 | 10,300.00 | 82.24 | 83.91 | 90.08 | -4,552.90 | -401.66 | 950.00 | 869.08 | 80.92 | 11.740 | | |
| 13,813.50 | 9,350.00 | 14,756.86 | 10,300.00 | 82.45 | 84.11 | 90.08 | -4,566.40 | -401.64 | 950.00 | 868.89 | 81.11 | 11.713 | | |
| 13,900.00 | 9,350.00 | 14,843.36 | 10,300.00 | 83.76 | 85.41 | 90.14 | -4,652.90 | -401.48 | 950.00 | 867.68 | 82.32 | 11.541 | | |
| 14,000.00 | 9,350.00 | 14,943.36 | 10,300.00 | 85.28 | 86.91 | 90.25 | -4,752.90 | -401.29 | 950.00 | 866.27 | 83.73 | 11.347 | | |
| 14,100.00 | 9,350.00 | 15,043.36 | 10,300.00 | 86.81 | 88.41 | 90.60 | -4,852.90 | -401.11 | 950.00 | 864.86 | 85.14 | 11.158 | | |
| 14,200.00 | 9,350.00 | 15,143.36 | 10,300.00 | 88.34 | 89.92 | 0.00 | -4,952.90 | -400.92 | 950.00 | 863.44 | 86.56 | 10.975 | | |
| 14,203.92 | 9,350.00 | 15,147.28 | 10,300.00 | 88.40 | 89.98 | 0.00 | -4,956.82 | -400.92 | 950.00 | 863.39 | 86.61 | 10.968 | | |

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



MS Energy Services
Anticollision Report



Company: Matador Resources
 Project: Eddy County, New Mexico (NAD 27)
 Reference Site: Warren 25-23S-27E RB Fed COM
 Site Error: 0.00 usft
 Reference Well: #201H
 Well Error: 0.00 usft
 Reference Wellbore: Wellbore #1
 Reference Design: Design #3

Local Co-ordinate Reference: Well #201H
 TVD Reference: WELL @ 3162.00usft (Patterson 297)
 MD Reference: WELL @ 3162.00usft (Patterson 297)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Output errors are at: 2.00 sigma
 Database: EDM Conroe
 Offset TVD Reference: Offset Datum

| Offset Design Warren 25-23S-27E RB Fed COM - #225H - Wellbore #1 - Design #3 | | | | | | | | | | | | | | Offset Site Error: | 0.00 usft |
|--|-----------------------------|-----------------------------|-----------------------------|---------------------|------------------|------------------------------|------------------------|-----------------|------------------------------|-------------------------------|---------------------------------|----------------------|---------|--------------------|-----------|
| Survey Program: 0-MWD | | | | | | | | | | | | | | Offset Well Error: | 0.00 usft |
| Reference | | Offset | | Semi Major Axis | | Azimuth from North (°) | Offset Wellbore Centre | | Distance | | Minimum Separation (usft) | Separation Factor | Warning | | |
| Measured Depth (usft) | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | | +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 89.85 | 0.24 | 89.99 | 89.99 | 89.74 | 0.25 | 353.579 | | | |
| 100.00 | 100.00 | 100.00 | 100.00 | 0.13 | 0.13 | 89.85 | 0.24 | 89.99 | 89.99 | 89.74 | 0.25 | 353.579 | | | |
| 200.00 | 200.00 | 200.00 | 200.00 | 0.49 | 0.49 | 89.85 | 0.24 | 89.99 | 89.99 | 89.02 | 0.97 | 92.635 | | | |
| 300.00 | 300.00 | 300.00 | 300.00 | 0.84 | 0.84 | 89.85 | 0.24 | 89.99 | 89.99 | 88.30 | 1.69 | 53.300 | | | |
| 400.00 | 400.00 | 400.00 | 400.00 | 1.20 | 1.20 | 89.85 | 0.24 | 89.99 | 89.99 | 87.59 | 2.41 | 37.413 | | | |
| 500.00 | 500.00 | 500.00 | 500.00 | 1.56 | 1.56 | 89.85 | 0.24 | 89.99 | 89.99 | 86.87 | 3.12 | 28.822 | | | |
| 600.00 | 600.00 | 600.00 | 600.00 | 1.92 | 1.92 | 89.85 | 0.24 | 89.99 | 89.99 | 86.15 | 3.84 | 23.440 | | | |
| 700.00 | 700.00 | 700.00 | 700.00 | 2.28 | 2.28 | 89.85 | 0.24 | 89.99 | 89.99 | 85.44 | 4.56 | 19.752 | | | |
| 800.00 | 800.00 | 800.00 | 800.00 | 2.64 | 2.64 | 89.85 | 0.24 | 89.99 | 89.99 | 84.72 | 5.27 | 17.066 | CC, ES | | |
| 900.00 | 899.99 | 898.10 | 898.09 | 2.99 | 2.99 | 89.74 | 1.00 | 91.00 | 92.19 | 86.22 | 5.97 | 15.431 | | | |
| 1,000.00 | 999.91 | 995.92 | 995.83 | 3.34 | 3.33 | 89.44 | 3.26 | 94.00 | 98.80 | 92.13 | 6.67 | 14.813 | | | |
| 1,066.67 | 1,066.45 | 1,060.83 | 1,060.63 | 3.58 | 3.56 | 89.17 | 5.60 | 97.10 | 105.63 | 98.50 | 7.13 | 14.810 | | | |
| 1,100.00 | 1,099.70 | 1,106.21 | 1,093.51 | 3.70 | 3.73 | 89.01 | 6.98 | 98.93 | 109.58 | 102.17 | 7.41 | 14.785 | | | |
| 1,200.00 | 1,199.46 | 1,206.91 | 1,192.56 | 4.06 | 4.09 | 88.58 | 11.16 | 104.47 | 121.42 | 113.30 | 8.12 | 14.953 | | | |
| 1,300.00 | 1,299.22 | 1,292.38 | 1,291.61 | 4.42 | 4.40 | 88.22 | 15.33 | 110.00 | 133.28 | 124.50 | 8.78 | 15.182 | | | |
| 1,400.00 | 1,398.97 | 1,408.33 | 1,390.66 | 4.78 | 4.82 | 87.93 | 19.50 | 115.54 | 145.13 | 135.59 | 9.55 | 15.201 | | | |
| 1,500.00 | 1,498.73 | 1,509.04 | 1,489.71 | 5.15 | 5.19 | 87.67 | 23.68 | 121.07 | 156.99 | 146.73 | 10.26 | 15.294 | | | |
| 1,600.00 | 1,598.48 | 1,609.75 | 1,588.76 | 5.52 | 5.56 | 87.46 | 27.85 | 126.60 | 168.86 | 157.87 | 10.98 | 15.374 | | | |
| 1,700.00 | 1,698.24 | 1,689.55 | 1,687.81 | 5.88 | 5.85 | 87.27 | 32.03 | 132.14 | 180.72 | 169.09 | 11.63 | 15.542 | | | |
| 1,800.00 | 1,798.00 | 1,788.84 | 1,786.86 | 6.25 | 6.21 | 87.10 | 36.20 | 137.67 | 192.59 | 180.25 | 12.34 | 15.602 | | | |
| 1,900.00 | 1,897.75 | 1,888.13 | 1,885.91 | 6.62 | 6.58 | 86.96 | 40.37 | 143.21 | 204.46 | 191.40 | 13.06 | 15.655 | | | |
| 2,000.00 | 1,997.51 | 1,987.42 | 1,984.96 | 6.99 | 6.95 | 86.83 | 44.55 | 148.74 | 216.33 | 202.55 | 13.78 | 15.701 | | | |
| 2,100.00 | 2,097.27 | 2,086.71 | 2,084.01 | 7.36 | 7.31 | 86.71 | 48.72 | 154.28 | 228.20 | 213.70 | 14.50 | 15.742 | | | |
| 2,200.00 | 2,197.02 | 2,186.01 | 2,183.06 | 7.73 | 7.68 | 86.61 | 52.90 | 159.81 | 240.07 | 224.85 | 15.21 | 15.779 | | | |
| 2,300.00 | 2,296.78 | 2,285.30 | 2,282.11 | 8.10 | 8.05 | 86.51 | 57.07 | 165.35 | 251.94 | 236.01 | 15.93 | 15.812 | | | |
| 2,400.00 | 2,396.54 | 2,384.59 | 2,381.16 | 8.47 | 8.42 | 86.43 | 61.24 | 170.88 | 263.81 | 247.16 | 16.65 | 15.842 | | | |
| 2,500.00 | 2,496.29 | 2,483.88 | 2,480.21 | 8.84 | 8.78 | 86.35 | 65.42 | 176.41 | 275.68 | 258.31 | 17.37 | 15.869 | | | |
| 2,600.00 | 2,595.95 | 2,583.03 | 2,579.11 | 9.22 | 9.15 | 86.40 | 69.59 | 181.94 | 288.68 | 270.59 | 18.09 | 15.954 | | | |
| 2,700.00 | 2,695.35 | 2,681.84 | 2,677.69 | 9.61 | 9.52 | 86.70 | 73.74 | 187.45 | 303.94 | 285.12 | 18.82 | 16.151 | | | |
| 2,766.97 | 2,761.75 | 2,747.81 | 2,743.49 | 9.67 | 9.76 | 87.01 | 76.51 | 191.13 | 315.41 | 296.11 | 19.30 | 16.340 | | | |
| 2,800.00 | 2,794.45 | 2,780.28 | 2,775.89 | 10.00 | 9.88 | 87.19 | 77.88 | 192.94 | 321.32 | 301.78 | 19.54 | 16.443 | | | |
| 2,900.00 | 2,893.48 | 2,878.63 | 2,873.99 | 10.40 | 10.25 | 87.67 | 82.01 | 198.42 | 339.24 | 318.98 | 20.26 | 16.740 | | | |
| 3,000.00 | 2,992.50 | 2,976.97 | 2,972.09 | 10.80 | 10.62 | 88.10 | 86.15 | 203.90 | 357.18 | 336.19 | 20.99 | 17.018 | | | |
| 3,100.00 | 3,091.53 | 3,075.31 | 3,070.19 | 11.20 | 10.98 | 88.49 | 90.28 | 209.38 | 375.14 | 353.42 | 21.71 | 17.278 | | | |
| 3,200.00 | 3,190.56 | 3,173.66 | 3,168.30 | 11.60 | 11.35 | 88.85 | 94.41 | 214.86 | 393.11 | 370.67 | 22.44 | 17.521 | | | |
| 3,300.00 | 3,289.58 | 3,272.00 | 3,266.40 | 12.00 | 11.71 | 89.17 | 98.55 | 220.34 | 411.09 | 387.93 | 23.16 | 17.749 | | | |
| 3,400.00 | 3,388.61 | 3,370.34 | 3,364.50 | 12.41 | 12.08 | 89.47 | 102.68 | 225.82 | 429.09 | 405.21 | 23.89 | 17.964 | | | |
| 3,474.21 | 3,462.09 | 3,443.32 | 3,437.30 | 12.71 | 12.35 | 89.68 | 105.75 | 229.89 | 442.46 | 418.03 | 24.42 | 18.115 | | | |
| 3,500.00 | 3,467.64 | 3,468.70 | 3,462.62 | 12.81 | 12.45 | 89.74 | 106.82 | 231.31 | 447.02 | 422.41 | 24.61 | 18.163 | | | |
| 3,600.00 | 3,566.92 | 3,567.36 | 3,561.04 | 13.21 | 12.81 | 89.88 | 110.96 | 236.81 | 463.29 | 437.96 | 25.34 | 18.286 | | | |
| 3,700.00 | 3,666.48 | 3,666.54 | 3,659.98 | 13.60 | 13.18 | 89.88 | 115.13 | 242.33 | 477.24 | 451.18 | 26.06 | 18.313 | | | |
| 3,800.00 | 3,766.25 | 3,777.18 | 3,770.45 | 13.97 | 13.59 | 89.80 | 118.79 | 247.19 | 487.68 | 460.83 | 26.85 | 18.163 | | | |
| 3,900.00 | 3,866.16 | 3,888.46 | 3,881.68 | 14.33 | 13.99 | 89.81 | 120.53 | 249.49 | 493.46 | 465.84 | 27.62 | 17.865 | | | |
| 4,000.00 | 3,966.15 | 4,007.08 | 3,986.15 | 14.68 | 14.40 | 89.87 | 120.67 | 249.68 | 494.99 | 466.60 | 28.39 | 17.435 | | | |
| 4,007.85 | 3,994.00 | 4,000.77 | 3,994.00 | 14.70 | 14.38 | 89.87 | 120.67 | 249.68 | 495.00 | 466.60 | 28.40 | 17.432 | | | |
| 4,100.00 | 4,086.15 | 4,107.08 | 4,086.15 | 15.01 | 14.74 | 89.87 | 120.67 | 249.68 | 495.00 | 465.91 | 29.09 | 17.018 | | | |
| 4,200.00 | 4,186.15 | 4,207.08 | 4,186.15 | 15.35 | 15.09 | 89.87 | 120.67 | 249.68 | 495.00 | 465.22 | 29.78 | 16.620 | | | |
| 4,300.00 | 4,286.15 | 4,307.08 | 4,286.15 | 15.69 | 15.44 | 89.87 | 120.67 | 249.68 | 495.00 | 464.52 | 30.48 | 16.239 | | | |
| 4,400.00 | 4,386.15 | 4,407.08 | 4,386.15 | 16.03 | 15.79 | 89.87 | 120.67 | 249.68 | 495.00 | 463.82 | 31.18 | 15.876 | | | |
| 4,500.00 | 4,486.15 | 4,507.08 | 4,486.15 | 16.37 | 16.13 | 89.87 | 120.67 | 249.68 | 495.00 | 463.12 | 31.88 | 15.527 | | | |
| 4,600.00 | 4,586.15 | 4,607.08 | 4,586.15 | 16.71 | 16.48 | 89.87 | 120.67 | 249.68 | 495.00 | 462.42 | 32.58 | 15.194 | | | |
| 4,700.00 | 4,686.15 | 4,707.08 | 4,686.15 | 17.06 | 16.83 | 89.87 | 120.67 | 249.68 | 495.00 | 461.72 | 33.28 | 14.874 | | | |

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



MS Energy Services
Anticollision Report



Company: Matador Resources
Project: Eddy County, New Mexico (NAD 27)
Reference Site: Warren 25-23S-27E RB Fed COM
Site Error: 0.00 usft
Reference Well: #201H
Well Error: 0.00 usft
Reference Wellbore: Wellbore #1
Reference Design: Design #3

Local Co-ordinate Reference: Well #201H
TVD Reference: WELL @ 3162.00usft (Patterson 297)
MD Reference: WELL @ 3162.00usft (Patterson 297)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: EDM Conroe
Offset TVD Reference: Offset Datum

| Offset Design Warren 25-23S-27E RB Fed COM - #225H - Wellbore #1 - Design #3 | | | | | | | | | | | | | Offset Site Error: | 0.00 usft |
|--|-----------------------|-----------------------|-----------------------|------------------|---------------|------------------------|------------------------|-------------|------------------------|-------------------------|---------------------------|-------------------|--------------------|-----------|
| Survey Program: 0-MWD | | | | | | | | | | | | | Offset Well Error: | 0.00 usft |
| Reference | | Offset | | Semi Major Axis | | Azimuth from North (°) | Offset Wellbore Centre | | Distance | | Minimum Separation (usft) | Separation Factor | Warning | |
| Measured Depth (usft) | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | | +N-S (usft) | +E-W (usft) | Between Centres (usft) | Between Ellipses (usft) | | | | |
| 4,800.00 | 4,786.15 | 4,807.08 | 4,786.15 | 17.40 | 17.18 | 89.87 | 120.67 | 249.68 | 495.00 | 461.02 | 33.98 | 14.567 | | |
| 4,900.00 | 4,886.15 | 4,907.08 | 4,886.15 | 17.74 | 17.53 | 89.87 | 120.67 | 249.68 | 495.00 | 460.32 | 34.68 | 14.272 | | |
| 5,000.00 | 4,986.15 | 5,007.08 | 4,986.15 | 18.09 | 17.88 | 89.87 | 120.67 | 249.68 | 495.00 | 459.81 | 35.39 | 13.989 | | |
| 5,100.00 | 5,086.15 | 5,107.08 | 5,086.15 | 18.43 | 18.23 | 89.87 | 120.67 | 249.68 | 495.00 | 458.91 | 36.09 | 13.716 | | |
| 5,200.00 | 5,186.15 | 5,207.08 | 5,186.15 | 18.78 | 18.58 | 89.87 | 120.67 | 249.68 | 495.00 | 458.21 | 36.79 | 13.454 | | |
| 5,300.00 | 5,286.15 | 5,307.08 | 5,286.15 | 19.12 | 18.93 | 89.87 | 120.67 | 249.68 | 495.00 | 457.50 | 37.50 | 13.201 | | |
| 5,400.00 | 5,386.15 | 5,407.08 | 5,386.15 | 19.47 | 19.29 | 89.87 | 120.67 | 249.68 | 495.00 | 456.80 | 38.20 | 12.957 | | |
| 5,500.00 | 5,486.15 | 5,507.08 | 5,486.15 | 19.82 | 19.64 | 89.87 | 120.67 | 249.68 | 495.00 | 456.09 | 38.91 | 12.723 | | |
| 5,600.00 | 5,586.15 | 5,607.08 | 5,586.15 | 20.16 | 19.99 | 89.87 | 120.67 | 249.68 | 495.00 | 455.39 | 39.61 | 12.496 | | |
| 5,700.00 | 5,686.15 | 5,707.08 | 5,686.15 | 20.51 | 20.34 | 89.87 | 120.67 | 249.68 | 495.00 | 454.68 | 40.32 | 12.277 | | |
| 5,800.00 | 5,786.15 | 5,807.08 | 5,786.15 | 20.86 | 20.69 | 89.87 | 120.67 | 249.68 | 495.00 | 453.97 | 41.03 | 12.066 | | |
| 5,900.00 | 5,886.15 | 5,907.08 | 5,886.15 | 21.21 | 21.05 | 89.87 | 120.67 | 249.68 | 495.00 | 453.27 | 41.73 | 11.861 | | |
| 6,000.00 | 5,986.15 | 6,007.08 | 5,986.15 | 21.56 | 21.40 | 89.87 | 120.67 | 249.68 | 495.00 | 452.56 | 42.44 | 11.664 | | |
| 6,100.00 | 6,086.15 | 6,107.08 | 6,086.15 | 21.91 | 21.75 | 89.87 | 120.67 | 249.68 | 495.00 | 451.85 | 43.15 | 11.473 | | |
| 6,200.00 | 6,186.15 | 6,207.08 | 6,186.15 | 22.25 | 22.11 | 89.87 | 120.67 | 249.68 | 495.00 | 451.15 | 43.85 | 11.287 | | |
| 6,300.00 | 6,286.15 | 6,307.08 | 6,286.15 | 22.60 | 22.46 | 89.87 | 120.67 | 249.68 | 495.00 | 450.44 | 44.56 | 11.108 | | |
| 6,400.00 | 6,386.15 | 6,407.08 | 6,386.15 | 22.95 | 22.81 | 89.87 | 120.67 | 249.68 | 495.00 | 449.73 | 45.27 | 10.934 | | |
| 6,500.00 | 6,486.15 | 6,507.08 | 6,486.15 | 23.30 | 23.17 | 89.87 | 120.67 | 249.68 | 495.00 | 449.02 | 45.98 | 10.766 | | |
| 6,600.00 | 6,586.15 | 6,607.08 | 6,586.15 | 23.65 | 23.52 | 89.87 | 120.67 | 249.68 | 495.00 | 448.31 | 46.69 | 10.602 | | |
| 6,700.00 | 6,686.15 | 6,707.08 | 6,686.15 | 24.00 | 23.87 | 89.87 | 120.67 | 249.68 | 495.00 | 447.60 | 47.40 | 10.444 | | |
| 6,800.00 | 6,786.15 | 6,807.08 | 6,786.15 | 24.36 | 24.23 | 89.87 | 120.67 | 249.68 | 495.00 | 446.89 | 48.11 | 10.290 | | |
| 6,900.00 | 6,886.15 | 6,907.08 | 6,886.15 | 24.71 | 24.58 | 89.87 | 120.67 | 249.68 | 495.00 | 446.18 | 48.82 | 10.140 | | |
| 7,000.00 | 6,986.15 | 7,007.08 | 6,986.15 | 25.06 | 24.94 | 89.87 | 120.67 | 249.68 | 495.00 | 445.47 | 49.53 | 9.995 | | |
| 7,100.00 | 7,086.15 | 7,107.08 | 7,086.15 | 25.41 | 25.29 | 89.87 | 120.67 | 249.68 | 495.00 | 444.76 | 50.24 | 9.854 | | |
| 7,200.00 | 7,186.15 | 7,207.08 | 7,186.15 | 25.76 | 25.65 | 89.87 | 120.67 | 249.68 | 495.00 | 444.05 | 50.95 | 9.716 | | |
| 7,300.00 | 7,286.15 | 7,307.08 | 7,286.15 | 26.11 | 26.00 | 89.87 | 120.67 | 249.68 | 495.00 | 443.34 | 51.66 | 9.583 | | |
| 7,400.00 | 7,386.15 | 7,407.08 | 7,386.15 | 26.46 | 26.36 | 89.87 | 120.67 | 249.68 | 495.00 | 442.63 | 52.37 | 9.453 | | |
| 7,500.00 | 7,486.15 | 7,507.08 | 7,486.15 | 26.82 | 26.71 | 89.87 | 120.67 | 249.68 | 495.00 | 441.92 | 53.08 | 9.326 | | |
| 7,600.00 | 7,586.15 | 7,607.08 | 7,586.15 | 27.17 | 27.07 | 89.87 | 120.67 | 249.68 | 495.00 | 441.21 | 53.79 | 9.203 | | |
| 7,700.00 | 7,686.15 | 7,707.08 | 7,686.15 | 27.52 | 27.42 | 89.87 | 120.67 | 249.68 | 495.00 | 440.50 | 54.50 | 9.083 | | |
| 7,800.00 | 7,786.15 | 7,807.08 | 7,786.15 | 27.87 | 27.78 | 89.87 | 120.67 | 249.68 | 495.00 | 439.79 | 55.21 | 8.966 | | |
| 7,900.00 | 7,886.15 | 7,907.08 | 7,886.15 | 28.23 | 28.13 | 89.87 | 120.67 | 249.68 | 495.00 | 439.08 | 55.92 | 8.852 | | |
| 8,000.00 | 7,986.15 | 8,007.08 | 7,986.15 | 28.58 | 28.49 | 89.87 | 120.67 | 249.68 | 495.00 | 438.37 | 56.63 | 8.741 | | |
| 8,100.00 | 8,086.15 | 8,107.08 | 8,086.15 | 28.93 | 28.84 | 89.87 | 120.67 | 249.68 | 495.00 | 437.66 | 57.34 | 8.632 | | |
| 8,200.00 | 8,186.15 | 8,207.08 | 8,186.15 | 29.29 | 29.20 | 89.87 | 120.67 | 249.68 | 495.00 | 436.94 | 58.06 | 8.526 | | |
| 8,300.00 | 8,286.15 | 8,307.08 | 8,286.15 | 29.64 | 29.55 | 89.87 | 120.67 | 249.68 | 495.00 | 436.23 | 58.77 | 8.423 | | |
| 8,400.00 | 8,386.15 | 8,407.08 | 8,386.15 | 29.99 | 29.91 | 89.87 | 120.67 | 249.68 | 495.00 | 435.52 | 59.48 | 8.322 | | |
| 8,500.00 | 8,486.15 | 8,507.08 | 8,486.15 | 30.35 | 30.26 | 89.87 | 120.67 | 249.68 | 495.00 | 434.81 | 60.19 | 8.224 | | |
| 8,600.00 | 8,586.15 | 8,607.08 | 8,586.15 | 30.70 | 30.62 | 89.87 | 120.67 | 249.68 | 495.00 | 434.10 | 60.90 | 8.128 | | |
| 8,700.00 | 8,686.15 | 8,707.08 | 8,686.15 | 31.05 | 30.98 | 89.87 | 120.67 | 249.68 | 495.00 | 433.38 | 61.62 | 8.034 | | |
| 8,785.09 | 8,771.24 | 8,778.01 | 8,771.24 | 31.35 | 31.23 | 89.87 | 120.67 | 249.68 | 495.00 | 432.83 | 62.17 | 7.962 | | |
| 8,800.00 | 8,786.15 | 8,807.08 | 8,786.15 | 31.41 | 31.33 | 89.85 | 120.67 | 249.68 | 495.04 | 432.71 | 62.33 | 7.943 | | |
| 8,850.00 | 8,836.01 | 8,842.78 | 8,836.01 | 31.57 | 31.46 | 89.46 | 120.67 | 249.68 | 495.75 | 433.13 | 62.61 | 7.917 | | |
| 8,900.00 | 8,885.38 | 8,907.85 | 8,885.38 | 31.72 | 31.69 | 88.58 | 120.67 | 249.68 | 497.42 | 434.42 | 63.00 | 7.895 SF | | |
| 8,950.00 | 8,933.88 | 8,940.66 | 8,933.88 | 31.88 | 31.81 | 87.23 | 120.67 | 249.68 | 500.24 | 436.96 | 63.27 | 7.906 | | |
| 9,000.00 | 8,981.15 | 8,987.92 | 8,981.15 | 32.02 | 31.98 | 85.43 | 120.67 | 249.68 | 504.46 | 440.87 | 63.59 | 7.933 | | |
| 9,050.00 | 9,026.81 | 9,033.58 | 9,026.81 | 32.16 | 32.14 | 83.24 | 120.67 | 249.68 | 510.42 | 446.53 | 63.89 | 7.989 | | |
| 9,100.00 | 9,070.53 | 9,077.31 | 9,070.53 | 32.29 | 32.29 | 80.69 | 120.67 | 249.68 | 518.47 | 454.29 | 64.18 | 8.078 | | |
| 9,150.00 | 9,111.98 | 9,118.75 | 9,111.98 | 32.42 | 32.44 | 77.86 | 120.67 | 249.68 | 528.99 | 464.53 | 64.46 | 8.207 | | |
| 9,200.00 | 9,150.83 | 9,157.60 | 9,150.83 | 32.53 | 32.58 | 74.81 | 120.67 | 249.68 | 542.31 | 477.59 | 64.72 | 8.379 | | |
| 9,250.00 | 9,186.79 | 9,206.44 | 9,186.79 | 32.65 | 32.75 | 71.63 | 120.67 | 249.68 | 558.70 | 493.69 | 65.01 | 8.594 | | |
| 9,300.00 | 9,219.59 | 9,226.36 | 9,219.59 | 32.76 | 32.82 | 68.38 | 120.67 | 249.68 | 578.34 | 513.16 | 65.19 | 8.872 | | |

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



MS Energy Services
Anticollision Report



Company: Matador Resources
Project: Eddy County, New Mexico (NAD 27)
Reference Site: Warren 25-23S-27E RB Fed COM
Site Error: 0.00 usft
Reference Well: #201H
Well Error: 0.00 usft
Reference Wellbore: Wellbore #1
Reference Design: Design #3

Local Co-ordinate Reference: Well #201H
TVD Reference: WELL @ 3162.00usft (Patterson 297)
MD Reference: WELL @ 3162.00usft (Patterson 297)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: EDM Conroe
Offset TVD Reference: Offset Datum

| Offset Design | | Warren 25-23S-27E RB Fed COM - #225H - Wellbore #1 - Design #3 | | | | | | | | | | | | Offset Site Error: |
|-----------------------|-----------------------|--|-----------------------|------------------|---------------|------------------------|------------------------|-------------|------------------------|-------------------------|---------------------------|-------------------|---------|--------------------|
| Survey Program: 0-MWD | | | | | | | | | | | | | | Offset Well Error: |
| Reference | | Offset | | Semi Major Axis | | Azimuth from North (°) | Offset Wellbore Centre | | Distance | | Minimum Separation (usft) | Separation Factor | Warning | |
| Measured Depth (usft) | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | | +N/S (usft) | +E/W (usft) | Between Centres (usft) | Between Ellipses (usft) | | | | |
| 9,350.00 | 9,248.97 | 9,255.74 | 9,248.97 | 32.89 | 32.93 | 65.15 | 120.67 | 249.68 | 601.32 | 535.93 | 65.39 | 9.196 | | |
| 9,400.00 | 9,274.72 | 9,281.50 | 9,274.72 | 33.03 | 33.02 | 61.99 | 120.67 | 249.68 | 627.59 | 562.03 | 65.56 | 9.573 | | |
| 9,450.00 | 9,296.64 | 9,303.41 | 9,296.64 | 33.18 | 33.10 | 58.96 | 120.67 | 249.68 | 657.02 | 591.31 | 65.71 | 9.999 | | |
| 9,500.00 | 9,314.56 | 9,321.33 | 9,314.56 | 33.35 | 33.16 | 56.10 | 120.67 | 249.68 | 689.35 | 623.52 | 65.83 | 10.472 | | |
| 9,550.00 | 9,328.35 | 9,335.12 | 9,328.35 | 33.52 | 33.21 | 53.42 | 120.67 | 249.68 | 724.28 | 658.36 | 65.92 | 10.987 | | |
| 9,585.09 | 9,335.49 | 9,342.27 | 9,335.49 | 33.65 | 33.24 | 51.67 | 120.67 | 249.68 | 750.14 | 684.17 | 65.97 | 11.371 | | |
| 9,600.00 | 9,337.97 | 9,344.74 | 9,337.97 | 33.71 | 33.25 | 50.95 | 120.67 | 249.68 | 761.42 | 695.43 | 65.99 | 11.539 | | |
| 9,650.00 | 9,344.58 | 9,351.36 | 9,344.58 | 33.91 | 33.27 | 48.69 | 120.67 | 249.68 | 800.24 | 734.20 | 66.03 | 12.118 | | |
| 9,700.00 | 9,348.60 | 9,355.37 | 9,348.60 | 34.12 | 33.28 | 46.63 | 120.67 | 249.68 | 840.42 | 774.35 | 66.07 | 12.721 | | |
| 9,751.76 | 9,350.00 | 9,356.77 | 9,350.00 | 34.34 | 33.29 | 44.69 | 120.67 | 249.68 | 883.17 | 817.08 | 66.08 | 13.365 | | |
| 9,800.00 | 9,350.00 | 9,356.77 | 9,350.00 | 34.57 | 33.29 | 43.02 | 120.67 | 249.68 | 923.54 | 857.45 | 66.09 | 13.974 | | |
| 9,900.00 | 9,350.00 | 9,356.77 | 9,350.00 | 35.08 | 33.29 | 39.79 | 120.67 | 249.68 | 1,007.46 | 941.35 | 66.11 | 15.239 | | |
| 10,000.00 | 9,350.00 | 9,356.77 | 9,350.00 | 35.64 | 33.29 | 36.82 | 120.67 | 249.68 | 1,091.46 | 1,025.33 | 66.13 | 16.505 | | |
| 10,100.00 | 9,350.00 | 11,027.75 | 10,300.00 | 36.26 | 39.04 | 89.89 | -851.68 | 251.49 | 1,156.90 | 1,103.17 | 53.73 | 21.531 | | |
| 10,134.88 | 9,350.00 | 11,062.64 | 10,300.00 | 36.49 | 39.25 | 89.89 | -886.57 | 251.55 | 1,157.08 | 1,103.04 | 54.04 | 21.411 | | |
| 10,200.00 | 9,350.00 | 11,127.75 | 10,300.00 | 36.93 | 39.67 | 89.89 | -951.68 | 251.67 | 1,157.07 | 1,102.44 | 54.63 | 21.181 | | |
| 10,300.00 | 9,350.00 | 11,227.75 | 10,300.00 | 37.65 | 40.36 | 89.89 | -1,051.68 | 251.86 | 1,157.07 | 1,101.47 | 55.60 | 20.811 | | |
| 10,400.00 | 9,350.00 | 11,327.75 | 10,300.00 | 38.43 | 41.11 | 89.89 | -1,151.68 | 252.04 | 1,157.06 | 1,100.41 | 56.65 | 20.426 | | |
| 10,500.00 | 9,350.00 | 11,427.75 | 10,300.00 | 39.27 | 41.91 | 89.89 | -1,251.68 | 252.23 | 1,157.05 | 1,099.29 | 57.76 | 20.031 | | |
| 10,600.00 | 9,350.00 | 11,527.75 | 10,300.00 | 40.16 | 42.75 | 89.89 | -1,351.68 | 252.41 | 1,157.04 | 1,098.10 | 58.95 | 19.628 | | |
| 10,700.00 | 9,350.00 | 11,627.75 | 10,300.00 | 41.09 | 43.65 | 89.89 | -1,451.68 | 252.60 | 1,157.04 | 1,096.84 | 60.20 | 19.221 | | |
| 10,800.00 | 9,350.00 | 11,727.75 | 10,300.00 | 42.07 | 44.58 | 89.89 | -1,551.68 | 252.79 | 1,157.03 | 1,095.52 | 61.50 | 18.812 | | |
| 10,900.00 | 9,350.00 | 11,827.75 | 10,300.00 | 43.09 | 45.56 | 89.89 | -1,651.68 | 252.97 | 1,157.02 | 1,094.15 | 62.87 | 18.404 | | |
| 11,000.00 | 9,350.00 | 11,927.75 | 10,300.00 | 44.15 | 46.58 | 89.89 | -1,751.68 | 253.16 | 1,157.01 | 1,092.73 | 64.28 | 17.998 | | |
| 11,100.00 | 9,350.00 | 12,027.75 | 10,300.00 | 45.24 | 47.63 | 89.89 | -1,851.68 | 253.34 | 1,157.01 | 1,091.26 | 65.75 | 17.597 | | |
| 11,200.00 | 9,350.00 | 12,127.75 | 10,300.00 | 46.37 | 48.71 | 89.89 | -1,951.68 | 253.53 | 1,157.00 | 1,089.74 | 67.26 | 17.202 | | |
| 11,300.00 | 9,350.00 | 12,227.75 | 10,300.00 | 47.53 | 49.83 | 89.89 | -2,051.68 | 253.71 | 1,156.99 | 1,088.18 | 68.82 | 16.813 | | |
| 11,400.00 | 9,350.00 | 12,327.75 | 10,300.00 | 48.72 | 50.98 | 89.89 | -2,151.68 | 253.90 | 1,156.98 | 1,086.57 | 70.41 | 16.432 | | |
| 11,500.00 | 9,350.00 | 12,427.75 | 10,300.00 | 49.93 | 52.15 | 89.89 | -2,251.68 | 254.08 | 1,156.98 | 1,084.94 | 72.04 | 16.060 | | |
| 11,600.00 | 9,350.00 | 12,527.75 | 10,300.00 | 51.17 | 53.35 | 89.89 | -2,351.68 | 254.27 | 1,156.97 | 1,083.26 | 73.71 | 15.697 | | |
| 11,700.00 | 9,350.00 | 12,627.75 | 10,300.00 | 52.43 | 54.57 | 89.89 | -2,451.68 | 254.46 | 1,156.96 | 1,081.56 | 75.40 | 15.343 | | |
| 11,800.00 | 9,350.00 | 12,727.75 | 10,300.00 | 53.72 | 55.82 | 89.89 | -2,551.68 | 254.64 | 1,156.95 | 1,079.82 | 77.13 | 14.999 | | |
| 11,900.00 | 9,350.00 | 12,827.75 | 10,300.00 | 55.02 | 57.09 | 89.89 | -2,651.68 | 254.83 | 1,156.95 | 1,078.06 | 78.89 | 14.665 | | |
| 12,000.00 | 9,350.00 | 12,927.75 | 10,300.00 | 56.34 | 58.37 | 89.89 | -2,751.68 | 255.01 | 1,156.94 | 1,076.26 | 80.67 | 14.341 | | |
| 12,100.00 | 9,350.00 | 13,027.75 | 10,300.00 | 57.68 | 59.68 | 89.89 | -2,851.68 | 255.20 | 1,156.93 | 1,074.45 | 82.48 | 14.026 | | |
| 12,200.00 | 9,350.00 | 13,127.75 | 10,300.00 | 59.04 | 61.00 | 89.89 | -2,951.68 | 255.38 | 1,156.92 | 1,072.61 | 84.31 | 13.722 | | |
| 12,300.00 | 9,350.00 | 13,227.75 | 10,300.00 | 60.41 | 62.34 | 89.89 | -3,051.68 | 255.57 | 1,156.92 | 1,070.75 | 86.17 | 13.426 | | |
| 12,400.00 | 9,350.00 | 13,327.75 | 10,300.00 | 61.79 | 63.69 | 89.89 | -3,151.68 | 255.75 | 1,156.91 | 1,068.87 | 88.04 | 13.141 | | |
| 12,500.00 | 9,350.00 | 13,427.75 | 10,300.00 | 63.19 | 65.06 | 89.89 | -3,251.68 | 255.94 | 1,156.90 | 1,066.97 | 89.93 | 12.864 | | |
| 12,600.00 | 9,350.00 | 13,527.75 | 10,300.00 | 64.60 | 66.44 | 89.89 | -3,351.68 | 256.12 | 1,156.89 | 1,065.05 | 91.84 | 12.596 | | |
| 12,700.00 | 9,350.00 | 13,627.75 | 10,300.00 | 66.02 | 67.83 | 89.89 | -3,451.68 | 256.31 | 1,156.89 | 1,063.11 | 93.77 | 12.337 | | |
| 12,800.00 | 9,350.00 | 13,727.75 | 10,300.00 | 67.46 | 69.23 | 89.89 | -3,551.68 | 256.50 | 1,156.88 | 1,061.16 | 95.71 | 12.087 | | |
| 12,900.00 | 9,350.00 | 13,827.75 | 10,300.00 | 68.90 | 70.65 | 89.89 | -3,651.68 | 256.68 | 1,156.87 | 1,059.20 | 97.67 | 11.844 | | |
| 13,000.00 | 9,350.00 | 13,927.75 | 10,300.00 | 70.35 | 72.07 | 89.89 | -3,751.68 | 256.87 | 1,156.86 | 1,057.22 | 99.64 | 11.610 | | |
| 13,100.00 | 9,350.00 | 14,027.75 | 10,300.00 | 71.81 | 73.51 | 89.89 | -3,851.68 | 257.05 | 1,156.86 | 1,055.23 | 101.63 | 11.383 | | |
| 13,200.00 | 9,350.00 | 14,127.75 | 10,300.00 | 73.28 | 74.95 | 89.89 | -3,951.68 | 257.24 | 1,156.85 | 1,053.22 | 103.63 | 11.164 | | |
| 13,300.00 | 9,350.00 | 14,227.75 | 10,300.00 | 74.76 | 76.41 | 89.89 | -4,051.68 | 257.42 | 1,156.84 | 1,051.20 | 105.64 | 10.951 | | |
| 13,400.00 | 9,350.00 | 14,327.75 | 10,300.00 | 76.24 | 77.87 | 89.89 | -4,151.68 | 257.61 | 1,156.83 | 1,049.18 | 107.66 | 10.746 | | |
| 13,500.00 | 9,350.00 | 14,427.75 | 10,300.00 | 77.73 | 79.34 | 89.89 | -4,251.68 | 257.79 | 1,156.83 | 1,047.14 | 109.69 | 10.547 | | |
| 13,600.00 | 9,350.00 | 14,527.75 | 10,300.00 | 79.23 | 80.81 | 89.89 | -4,351.68 | 257.98 | 1,156.82 | 1,045.09 | 111.73 | 10.354 | | |
| 13,700.00 | 9,350.00 | 14,627.75 | 10,300.00 | 80.73 | 82.29 | 89.89 | -4,451.68 | 258.16 | 1,156.81 | 1,043.03 | 113.78 | 10.167 | | |
| 13,800.00 | 9,350.00 | 14,727.75 | 10,300.00 | 82.24 | 83.78 | 89.89 | -4,551.68 | 258.35 | 1,156.80 | 1,040.97 | 115.84 | 9.987 | | |

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



MS Energy Services
Anticollision Report



Company: Matador Resources
Project: Eddy County, New Mexico (NAD 27)
Reference Site: Warren 25-23S-27E RB Fed COM
Site Error: 0.00 usft
Reference Well: #201H
Well Error: 0.00 usft
Reference Wellbore: Wellbore #1
Reference Design: Design #3

Local Co-ordinate Reference: Well #201H
TVD Reference: WELL @ 3162.00usft (Patterson 297)
MD Reference: WELL @ 3162.00usft (Patterson 297)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: EDM Conroe
Offset TVD Reference: Offset Datum

| Offset Design Warren 25-23S-27E RB Fed COM - #225H - Wellbore #1 - Design #3 | | | | | | | | | | | | | Offset Site Error: | 0.00 usft |
|--|-----------------------|-----------------------|-----------------------|------------------|---------------|------------------------|-------------------------------------|--------------|------------------------|-------------------------|---------------------------|-------------------|--------------------|-----------|
| Survey Program: 0-MWD | | | | | | | | | | | | | Offset Well Error: | 0.00 usft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning | |
| Measured Depth (usft) | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Azimuth from North (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | | |
| 13,900.00 | 9,350.00 | 14,827.75 | 10,300.00 | 83.76 | 85.28 | 89.89 | -4,651.68 | 258.54 | 1,156.80 | 1,038.89 | 117.90 | 9.811 | | |
| 14,000.00 | 9,350.00 | 14,927.75 | 10,300.00 | 85.28 | 86.78 | 89.89 | -4,751.68 | 258.72 | 1,156.79 | 1,036.81 | 119.98 | 9.842 | | |
| 14,100.00 | 9,350.00 | 15,027.75 | 10,300.00 | 86.81 | 88.29 | 89.89 | -4,851.68 | 258.91 | 1,156.78 | 1,034.72 | 122.06 | 9.477 | | |
| 14,196.42 | 9,350.00 | 15,124.17 | 10,300.00 | 88.28 | 89.74 | 89.89 | -4,948.10 | 259.09 | 1,156.77 | 1,032.70 | 124.08 | 9.323 | | |
| 14,200.00 | 9,350.00 | 15,122.89 | 10,300.00 | 88.34 | 89.73 | 89.47 | -4,946.82 | 259.08 | 1,156.78 | 1,032.71 | 124.08 | 9.323 | | |
| 14,203.92 | 9,350.00 | 15,122.89 | 10,300.00 | 88.40 | 89.73 | 89.13 | -4,946.82 | 259.08 | 1,156.81 | 1,032.71 | 124.10 | 9.322 | | |

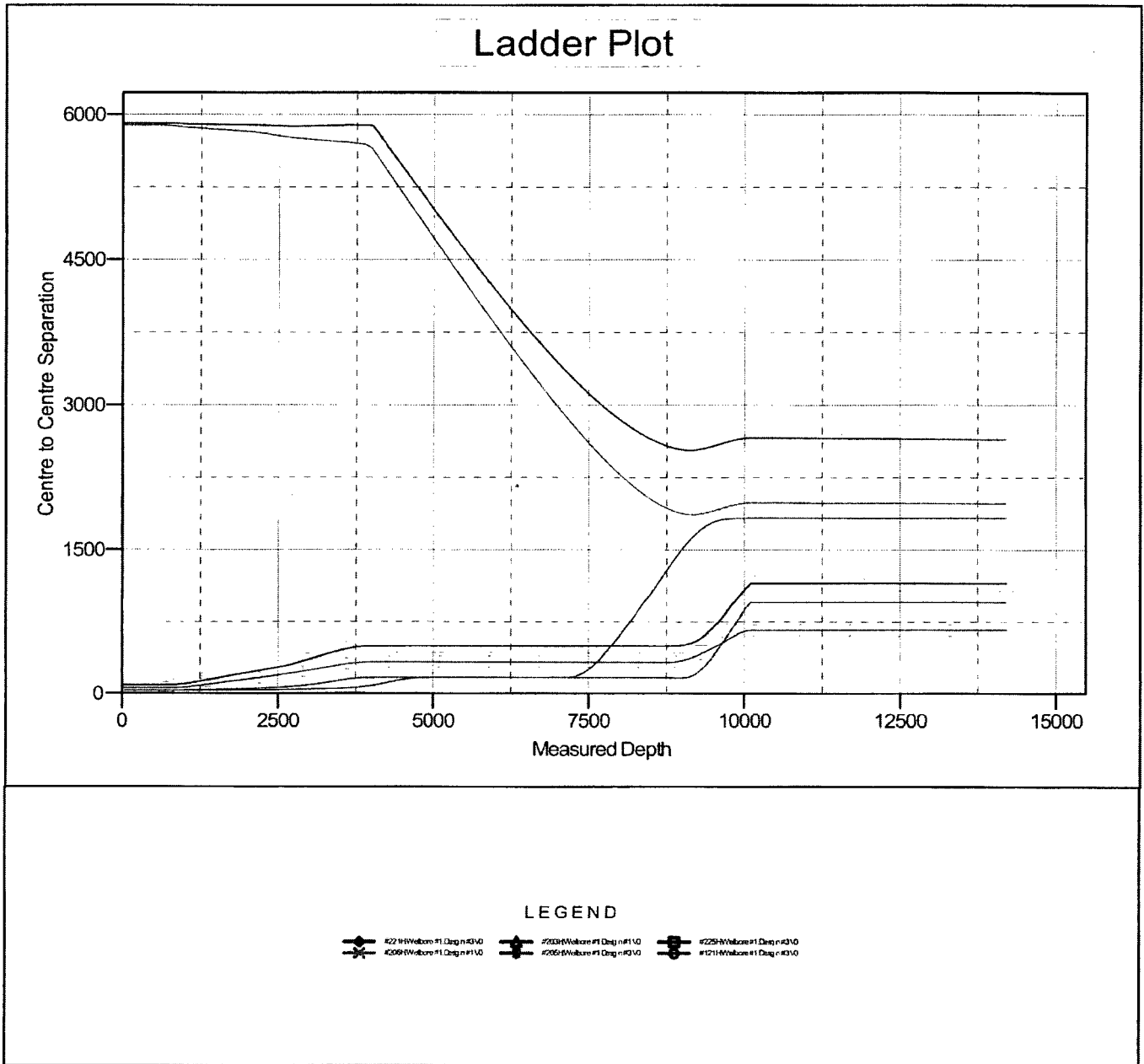
CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Company: Matador Resources
Project: Eddy County, New Mexico (NAD 27)
Reference Site: Warren 25-23S-27E RB Fed COM
Site Error: 0.00 usft
Reference Well: #201H
Well Error: 0.00 usft
Reference Wellbore: Wellbore #1
Reference Design: Design #3

Local Co-ordinate Reference: Well #201H
TVD Reference: WELL @ 3162.00usft (Patterson 297)
MD Reference: WELL @ 3162.00usft (Patterson 297)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: EDM Conroe
Offset TVD Reference: Offset Datum

Reference Depths are relative to WELL @ 3162.00usft (Patterson 297) Coordinates are relative to: #201H
 Offset Depths are relative to Offset Datum Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
 Central Meridian is 104° 20' 0.000 W Grid Convergence at Surface is: 0.10°

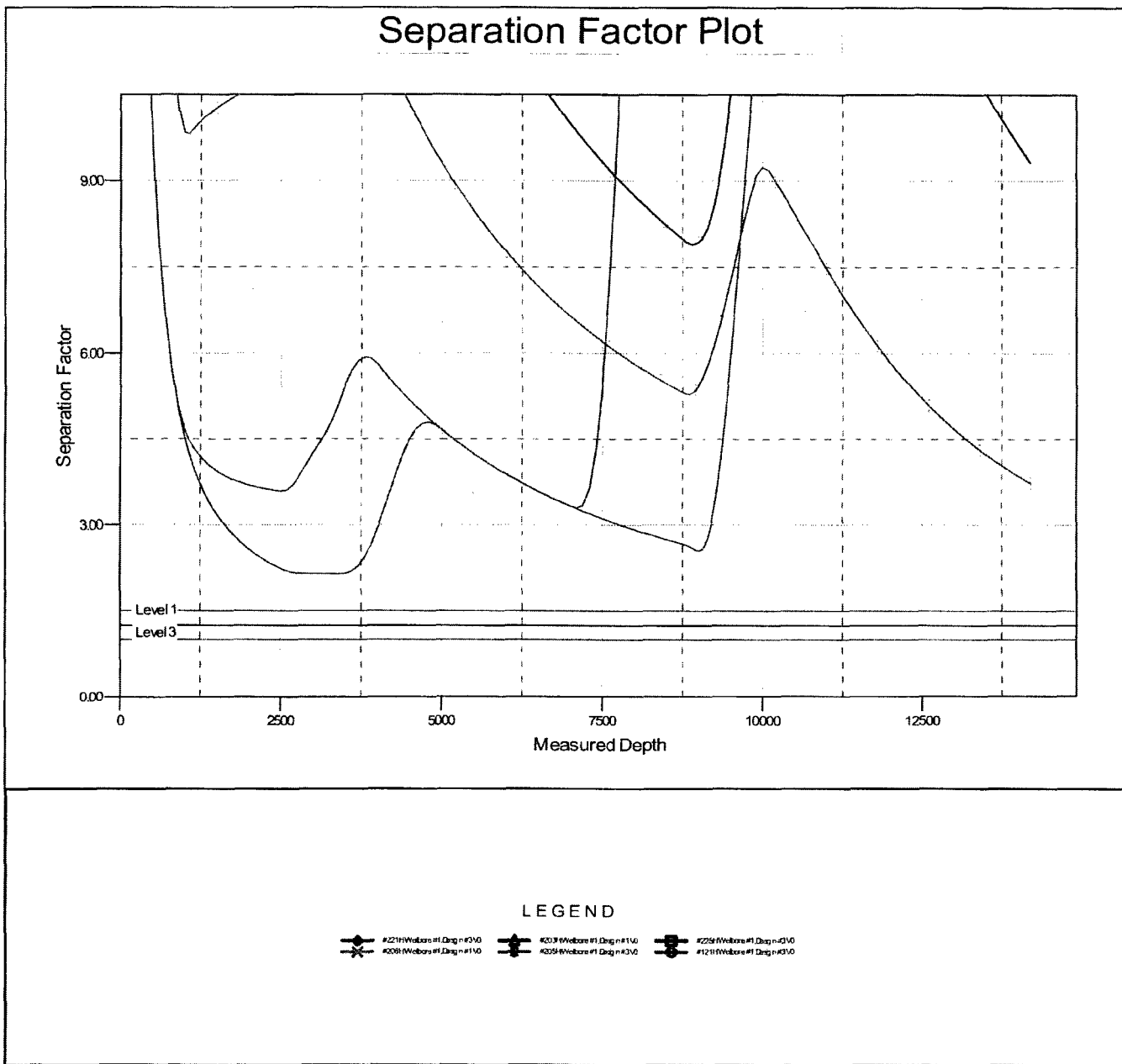




Company: Matador Resources
Project: Eddy County, New Mexico (NAD 27)
Reference Site: Warren 25-23S-27E RB Fed COM
Site Error: 0.00 usft
Reference Well: #201H
Well Error: 0.00 usft
Reference Wellbore: Wellbore #1
Reference Design: Design #3

Local Co-ordinate Reference: Well #201H
TVD Reference: WELL @ 3162.00usft (Patterson 297)
MD Reference: WELL @ 3162.00usft (Patterson 297)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: EDM Conroe
Offset TVD Reference: Offset Datum

Reference Depths are relative to WELL @ 3162.00usft (Patterson 297) Coordinates are relative to: #201H
Offset Depths are relative to Offset Datum Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Central Meridian is 104° 20' 0.000 W Grid Convergence at Surface is: 0.10°



Matador Production Company
 Warren Fed Com 201H
 SHL 170' FNL & 710' FWL Sec. 25
 BHL 240' FSL & 330' FWL Sec. 25
 T. 23 S., R. 27 E., Eddy County, NM

DRILL PLAN PAGE 1

Drilling Program

1. ESTIMATED TOPS

| Formation | TVD | MD | Bearing |
|---------------------------------------|------|-------|---------------------|
| Quaternary | 000 | 000 | water |
| Salado salt | 500 | 500 | salt |
| Castile anhydrite | 759 | 759 | barren |
| (KOP | 800 | 800 | N/A) |
| Lamar Limestone | 2343 | 2346 | barren |
| Bell Canyon Sandstone | 2408 | 2411 | barren |
| Cherry Canyon Sandstone | 3159 | 3165 | hydrocarbons |
| Brushy Canyon Sandstone | 4336 | 4340 | hydrocarbons |
| Bone Spring Limestone | 5828 | 5834 | hydrocarbons |
| 1 st Bone Spring Carbonate | 6497 | 6511 | hydrocarbons |
| 1 st Bone Spring Sand | 6867 | 6879 | hydrocarbons |
| 2 nd Bone Spring Carbonate | 7069 | 7083 | hydrocarbons |
| 2 nd Bone Spring Sand | 7515 | 7529 | hydrocarbons |
| 3 rd Bone Spring Carbonate | 7666 | 7680 | hydrocarbons |
| 3 rd Bone Spring Sand | 8853 | 8867 | hydrocarbons |
| Wolfcamp Limestone | 9217 | 9297 | hydrocarbons |
| Wolfcamp X Sand Top | 9226 | 9306 | hydrocarbons |
| Wolfcamp X Sand Base | 9260 | 9355 | hydrocarbons |
| Wolfcamp Y Sand Top | 9304 | 9472 | hydrocarbons & goal |
| Wolfcamp Y Sand Base | 9345 | 9650 | hydrocarbons |
| TD | 9350 | 14204 | hydrocarbons |

2. NOTABLE ZONES

Wolfcamp Y is the goal for this well. Hole will extend south of the last perforation point to allow for pump installation. All perforations will be $\geq 330'$ from the dedication perimeter. A windmill is $\approx 2700'$ SSW, but it is not in the State Engineer's database. Closest water well (C 02567) in the

Matador Production Company
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DRILL PLAN PAGE 2

database is 2351' west. Water bearing strata were found at 120'.

3. PRESSURE CONTROL

A 5K BOP stack consisting of 3 rams with 2 pipe rams, 1 blind ram, and 1 annular preventer will be installed. BOP will be used below surface casing to TD. See attached BOP and choke manifold diagrams.

An accumulator complying with Onshore Order 2 requirements for the BOP stack pressure rating will be present. Rotating head will be installed as needed.

Pressure tests will be conducted before drilling out from under all casing strings. BOP will be inspected and operated as required by Onshore Order 2. Kelly cock and sub equipped with a full opening valve sized to fit the drill pipe and collars will be available on the rig floor in the open position.

A third party company will test the BOPs.

After surface casing is set and the BOP is nipped up, then the BOP pressure tests will be made to 250 psi low and 2000 psi high. Intermediate 1 pressure tests will be made to 250 psi low and 3000 psi high. Intermediate 2 pressure tests will be made to 250 psi low and 5000 psi high. Annular preventer will be tested to 250 psi low and 1000 psi high on the surface casing, and 250 psi low and 2500 psi high on the intermediate 1 and 2 casing.

In the case of running a speed head with landing mandrel for 9.625" and 7" casing, after surface casing is set, BOP test pressures will be 250 psi low and 3000 psi high. Wellhead seals will be tested to 5000 psi once the 9.625" casing has been landed and cemented. BOP will then be lifted to install the C-section of the wellhead. BOP will then be nipped back up and pressure tests made to 250 psi low and 5000 psi high and the annular will be tested to 250 psi low and 2500 psi high.

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DRILL PLAN PAGE 3

Matador requests a variance to use a speed head. A diagram of the wellhead is attached.

Matador requests a variance to drill this well using a co-flex line between the BOP and choke manifold. Certification for proposed co-flex hose is attached. The hose is not required by the manufacturer to be anchored. If the specific hose is not available, then one of equal or higher rating will be used.

4. CASING & CEMENT

All casing will be API and new.

| Hole O. D. | Set MD | Set TVD | Casing O. D. | Weight (lb/ft) | Grade | Joint | Collapse | Burst | Tension |
|------------|-------------|------------|--------------|----------------|-------|---------|----------|-------|---------|
| 17.5" | 0' - 475' | 0' - 475' | 13.375" | 54.5 | J-55 | BTC | 1.125 | 1.125 | 1.8 |
| 12.25" | 0' - 2450' | 0' - 2446' | 9.625" | 40 | J-55 | BTC | 1.125 | 1.125 | 1.8 |
| 8.75" | 0' - 9585' | 0' - 9335' | 7" | 29 | P-110 | BTC | 1.125 | 1.125 | 1.8 |
| 6.125" | 0' - 14204' | 0' - 9350' | 4.5" | 13.5 | P-110 | BTC/TXP | 1.125 | 1.125 | 1.8 |

Matador Production Company
 Warren Fed Com 201H
 SHL 170' FNL & 710' FWL Sec. 25
 BHL 240' FSL & 330' FWL Sec. 25
 T. 23 S., R. 27 E., Eddy County, NM

DRILL PLAN PAGE 4

| Name | Type | Sacks | Yield | Cu. Ft. | Weight | Blend |
|----------------|------|-------------|-------|---------|---|--|
| Surface | Lead | 100 | 1.82 | 182 | 12.8 | Class C + Bentonite + 2% CaCl ₂ + 3% NaCl + LCM |
| | Tail | 350 | 1.38 | 483 | 14.8 | Class C + 5% NaCl + LCM |
| TOC = GL | | 100% Excess | | | Centralizers per Onshore Order 2.III.B.1f | |
| Intermediate 1 | Lead | 510 | 2.13 | 1086 | 12.6 | Class C + Bentonite + 1% CaCl ₂ + 8% NaCl + LCM |
| | Tail | 270 | 1.38 | 372 | 14.8 | Class C + 5% NaCl + LCM |
| TOC = GL | | 100% Excess | | | 2 on btm jt, 1 on 2nd jt, 1 every 4th jt to surface | |
| Intermediate 2 | Lead | 540 | 2.36 | 1274 | 11.5 | TXI + Fluid Loss + Dispersant + Retarder + LCM |
| | Tail | 320 | 1.38 | 441 | 13.2 | TXI + Fluid Loss + Dispersant + Retarder + LCM |
| TOC = 1400' | | 35% Excess | | | 2 on btm jt, 1 on 2nd jt, 1 every other jt to top of tail cement (500' above TOC) | |
| Production | Tail | 550 | 1.17 | 643 | 15.8 | Class H + Fluid Loss + Dispersant + Retarder + LCM |
| TOC = 9200' | | 25% Excess | | | 2 on btm jt, 1 on 2nd jt, 1 every third jt to top of curve | |

5. MUD PROGRAM

An electronic Pason mud monitoring system complying with Onshore Order 1 will be used. All necessary mud products (barite, bentonite, LCM) for weight addition and fluid loss control will be on location at all times. Mud program is subject to change due to hole conditions. A closed loop system will be used.

| Type | Interval | lb/gal | Viscosity | Fluid Loss |
|-------------------------|----------------|--------|-----------|------------|
| fresh water spud | 0' - 475' | 8.3 | 28 | NC |
| brine water | 475' - 2450' | 10.0 | 30-32 | NC |
| fresh water & cut brine | 2450' - 9585' | 9.0 | 30-31 | NC |
| OBM | 9585' - 14204' | 12.5 | 50-60 | <10 |

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DRILL PLAN PAGE 5

6. CORES, TESTS, & LOGS

No core or drill stem test is planned.

A 2-person mud-logging program will be used from \approx 5600' to TD.

No electric logs are planned at this time. GR will be collected through the MWD tools from intermediate casing to TD. CBL with CCL will be run as far as gravity will let it fall to TOC.

7. DOWN HOLE CONDITIONS

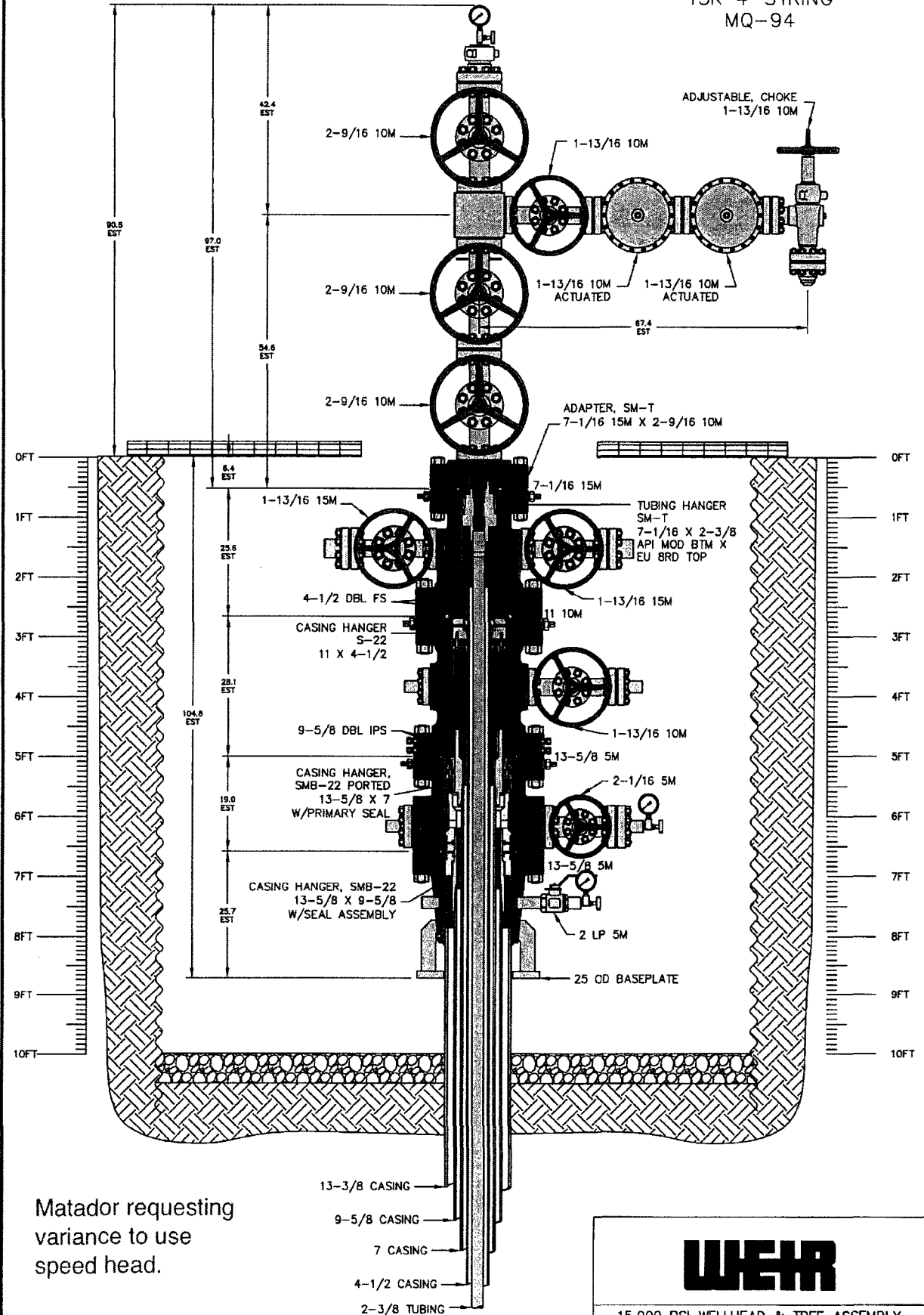
No abnormal pressure or temperature is expected. Maximum expected bottom hole pressure is \approx 6700 psi. Expected bottom hole temperature is \approx 160° F.

Matador does not anticipate that there will be enough H₂S from surface to the Bone Spring to meet BLM's minimum requirements for submitting an "H₂S Drilling Operation Plan" or "Public Protection Plan" for drilling and completing this well. Since Matador has an H₂S safety package on all wells, an "H₂S Drilling Operations Plan" is attached. Adequate flare lines will be installed off the mud/gas separator where gas will be flared safely. All personnel will be familiar with all aspects of safe operation of equipment being used.

8. OTHER INFORMATION

Anticipated spud date is upon approval. It is expected it will take \approx 3 months to drill and complete the well. Matador Production Company owns the majority working interest in this well. Per its discussions with its potential partners, Matador will be named operator upon execution of the final Operating Agreements signed by the partners or the issuance of a pooling order by the State.

MATADOR
15K 4-STRING
MQ-94



Matador requesting
variance to use
speed head.

NOTE:
DIMENSIONS SHOWN ON THIS DRAWING ARE
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WEIR

15,000 PSI WELLHEAD & TREE ASSEMBLY
13-3/8 X 9-5/8 X 7 X 4-1/2 X 2-3/8

| | | | |
|---------------|---------------------|---------------|------|
| DRAWN BY: RPL | SCALE: 1:10 | DATE: 18JAN16 | REV: |
| CHECKED BY: | DRAWING NO. P-20986 | | |
| APPROVED BY: | | | |



APD ID: 10400012711

Submission Date: 03/29/2017

Highlighted data reflects the most recent changes

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: WARREN FED COM

Well Number: 201H

[Show Final Text](#)

Well Type: CONVENTIONAL GAS WELL

Well Work Type: Drill

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

Warren_201H_Road_Map_07-20-2017.pdf

Existing Road Purpose: ACCESS,FLUID TRANSPORT

Row(s) Exist? NO

ROW ID(s)

ID:

Do the existing roads need to be improved? NO

Existing Road Improvement Description:

Existing Road Improvement Attachment:

Section 2 - New or Reconstructed Access Roads

Will new roads be needed? YES

New Road Map:

Warren_201H_Road_Map_07-20-2017.pdf

New road type: LOCAL

Length: 400

Feet

Width (ft.): 30

Max slope (%): 1

Max grade (%): 1

Army Corp of Engineers (ACOE) permit required? NO

ACOE Permit Number(s):

New road travel width: 14

New road access erosion control: CROWN AND DITCH SURFACE WITH CALICHE

New road access plan or profile prepared? NO

New road access plan attachment:

Access road engineering design? NO

Access road engineering design attachment:

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: WARREN FED COM

Well Number: 201H

Access surfacing type: OTHER

Access topsoil source: ONSITE

Access surfacing type description: CALICHE

Access onsite topsoil source depth: 6

Offsite topsoil source description:

Onsite topsoil removal process: GRADER

Access other construction information:

Access miscellaneous information:

Number of access turnouts:

Access turnout map:

Drainage Control

New road drainage crossing: OTHER

Drainage Control comments: NO DRAINAGE CROSSED

Road Drainage Control Structures (DCS) description: NONE NEEDED

Road Drainage Control Structures (DCS) attachment:

Access Additional Attachments

Additional Attachment(s):

Section 3 - Location of Existing Wells

Existing Wells Map? YES

Attach Well map:

Warren_201H_Well_Map_03-29-2017.pdf

Existing Wells description:

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

Submit or defer a Proposed Production Facilities plan? SUBMIT

Production Facilities description:

Production Facilities map:

Warren_201H_Production_Diagram_03-29-2017.pdf

Section 5 - Location and Types of Water Supply

Water Source Table

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: WARREN FED COM

Well Number: 201H

Water source use type: DUST CONTROL,
INTERMEDIATE/PRODUCTION CASING, STIMULATION, SURFACE
CASING

Water source type: GW WELL

Describe type:

Source longitude:

Source latitude:

Source datum:

Water source permit type: WATER WELL

Source land ownership: PRIVATE

Water source transport method: PIPELINE,TRUCKING

Source transportation land ownership: PRIVATE

Water source volume (barrels): 15000

Source volume (acre-feet): 1.9333965

Source volume (gal): 630000

Water source and transportation map:

Warren_201H_Water_Source_Map_03-29-2017.pdf

Water source comments:

New water well? NO

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:

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:

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: WARREN FED COM

Well Number: 201H

Section 6 - Construction Materials

Construction Materials description: CALICHE

Construction Materials source location attachment:

Warren_201H_Water_Source_Map_03-29-2017.pdf

Section 7 - Methods for Handling Waste

Waste type: DRILLING

Waste content description: CUTTINGS AND MUD

Amount of waste: 15000 barrels

Waste disposal frequency : Daily

Safe containment description: STEEL TANKS

Safe containmant attachment:

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

Disposal type description:

Disposal location description: HALFWAY, NM

Reserve Pit

Reserve Pit being used? NO

Temporary disposal of produced water into reserve pit?

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? NO

Description of cuttings location

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?

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: WARREN FED COM

Well Number: 201H

WCuttings area liner

Cuttings area liner specifications and installation description

Section 8 - Ancillary Facilities

Are you requesting any Ancillary Facilities?: NO

Ancillary Facilities attachment:

Comments:

Section 9 - Well Site Layout

Well Site Layout Diagram:

Warren_201H_Well_Site_Layout_03-29-2017.pdf

Comments:

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance

Multiple Well Pad Name: WARREN SLOT

Multiple Well Pad Number: 1

Recontouring attachment:

Warren_201H_Recontouring_Plat_03-29-2017.pdf

Drainage/Erosion control construction: TOPSOIL PILE WILL BE BERM ON UPHILL SIDE

Drainage/Erosion control reclamation: WILL HARROW ON CONTOUR

Wellpad long term disturbance (acres): 2.37

Wellpad short term disturbance (acres): 3.65

Access road long term disturbance (acres): 0.28

Access road short term disturbance (acres): 0.28

Pipeline long term disturbance (acres): 0

Pipeline short term disturbance (acres): 0.6456612

Other long term disturbance (acres): 0

Other short term disturbance (acres): 0

Total long term disturbance: 2.65

Total short term disturbance: 4.575661

Reconstruction method: Interim reclamation will shrink the pad 35% by removing caliche and reclaiming the south side (130' x 430'), leaving 2.37 acres for 5 wells, truck turn around, and production equipment. Disturbed areas will be contoured to match pre-construction grades. Soil and brush will be evenly spread over disturbed areas. Disturbed areas will be seeded in accordance with BLM requirements. Enough stockpiled topsoil will be retained to cover the remainder of the pad when the wells are plugged. Once the last well is plugged, then the remainder of the pad and new road will be similarly reclaimed. Noxious weeds will be controlled.

Topsoil redistribution: EVENLY

Soil treatment: AS REQUIRED BY LANDOWNER

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: WARREN FED COM

Well Number: 201H

Existing Vegetation at the well pad:

Existing Vegetation at the well pad attachment:

Existing Vegetation Community at the road:

Existing Vegetation Community at the road attachment:

Existing Vegetation Community at the pipeline:

Existing Vegetation Community at the pipeline attachment:

Existing Vegetation Community at other disturbances:

Existing Vegetation Community at other disturbances attachment:

Non native seed used?

Non native seed description:

Seedling transplant description:

Will seedlings be transplanted for this project?

Seedling transplant description attachment:

Will seed be harvested for use in site reclamation?

Seed harvest description:

Seed harvest description attachment:

Seed Management

Seed Table

Seed type:

Seed source:

Seed name:

Source name:

Source address:

Source phone:

Seed cultivar:

Seed use location:

PLS pounds per acre:

Proposed seeding season:

Seed Summary

Total pounds/Acre:

Seed Type

Pounds/Acre

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: WARREN FED COM

Well Number: 201H

Seed reclamation attachment:

Operator Contact/Responsible Official Contact Info

First Name:

Last Name:

Phone:

Email:

Seedbed prep:

Seed BMP:

Seed method:

Existing invasive species? YES

Existing invasive species treatment description: HERBICIDE

Existing invasive species treatment attachment:

Weed treatment plan description: HERBICIDE

Weed treatment plan attachment:

Monitoring plan description: INSPECTION BY PUMPER

Monitoring plan attachment:

Success standards: AS REQUIRED BY LANDOWNER

Pit closure description: NO PIT

Pit closure attachment:

Section 11 - Surface Ownership

Disturbance type: NEW ACCESS ROAD

Describe:

Surface Owner: PRIVATE OWNERSHIP

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: MATADOR PRODUCTION COMPANY

Well Name: WARREN FED COM

Well Number: 201H

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Fee Owner: ANTONIO ONSUREZ

Fee Owner Address: PO BOX 598 LOVING, NM 88256

Phone: (575)706-2280

Email:

Surface use plan certification: YES

Surface use plan certification document:

Warren_201H_Surface_Use_Agreement_03-29-2017.pdf

Surface access agreement or bond: Agreement

Surface Access Agreement Need description: SURFACE USE AGREEMENT WITH OWNER

Surface Access Bond BLM or Forest Service:

BLM Surface Access Bond number:

USFS Surface access bond number:

Fee Owner: WILLIAM COLWELL

Fee Owner Address: 241 COLWELL RANCH RD
CARLSBAD, NM 88220

Phone: (575)826-3384

Email:

Surface use plan certification: YES

Surface use plan certification document:

Warren_201H_Surface_Use_Agreement_03-29-2017.pdf

Surface access agreement or bond: Agreement

Surface Access Agreement Need description: SURFACE AGREEMENT WITH OWNER

Surface Access Bond BLM or Forest Service:

BLM Surface Access Bond number:

USFS Surface access bond number:

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: WARREN FED COM

Well Number: 201H

Disturbance type: WELL PAD

Describe:

Surface Owner: PRIVATE OWNERSHIP

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:

Fee Owner: WILLIAM COLWELL

Phone: (575)826-3384

Surface use plan certification: YES

Surface use plan certification document:

Warren_201H_Surface_Use_Agreement_03-29-2017.pdf

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CARLSBAD, NM 88220

Email:

Surface access agreement or bond: Agreement

Surface Access Agreement Need description: SURFACE USE AGREEMENT WITH OWNER

Surface Access Bond BLM or Forest Service:

BLM Surface Access Bond number:

USFS Surface access bond number:

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: WARREN FED COM

Well Number: 201H

Disturbance type: OTHER

Describe: POWERLINE

Surface Owner: PRIVATE OWNERSHIP

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:

Fee Owner: ANTONIO ONSUREZ

Fee Owner Address: PO BOX 598 LOVING, NM 88256

Phone: (575)706-2280

Email:

Surface use plan certification: YES

Surface use plan certification document:

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Surface Access Agreement Need description: SURFACE USE AGREEMENT WITH OWNER

Surface Access Bond BLM or Forest Service:

BLM Surface Access Bond number:

USFS Surface access bond number:

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: WARREN FED COM

Well Number: 201H

Fee Owner: WILLIAM COLWELL

Phone: (575)826-3384

Surface use plan certification: YES

Surface use plan certification document:

Warren_201H_Surface_Use_Agreement_03-29-2017.pdf

Fee Owner Address: 241 COLWELL RANCH RD
CARLSBAD, NM 88220

Email:

Surface access agreement or bond: Agreement

Surface Access Agreement Need description: SURFACE USE AGREEMENT WITH OWNER

Surface Access Bond BLM or Forest Service:

BLM Surface Access Bond number:

USFS Surface access bond number:

Disturbance type: PIPELINE

Describe:

Surface Owner: PRIVATE OWNERSHIP

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:

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: WARREN FED COM

Well Number: 201H

Fee Owner: ANTONIO ONSUREZ

Fee Owner Address: PO BOX 598 LOVING, NM 88256

Phone: (575)706-2280

Email:

Surface use plan certification: YES

Surface use plan certification document:

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Surface Access Agreement Need description: SURFACE USE AGREEMENT WITH OWNER

Surface Access Bond BLM or Forest Service:

BLM Surface Access Bond number:

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Fee Owner: WILLIAM COLWELL

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Phone: (575)826-3384

Email:

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Surface use plan certification document:

Warren_201H_Surface_Use_Agreement_03-29-2017.pdf

Surface access agreement or bond: Agreement

Surface Access Agreement Need description: SURFACE USE AGREEMENT WITH OWNER

Surface Access Bond BLM or Forest Service:

BLM Surface Access Bond number:

USFS Surface access bond number:

Section 12 - Other Information

Right of Way needed? NO

Use APD as ROW?

ROW Type(s):

ROW Applications

SUPO Additional Information: Deficiency Letter Dated 7/24/17: See Map 4 of Road Map attachment for requested pipeline and power line plats. See Item 4 of Surface Use Plan for pipeline specifications. (Note: Map 4 was part of the Road Map

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: WARREN FED COM

Well Number: 201H

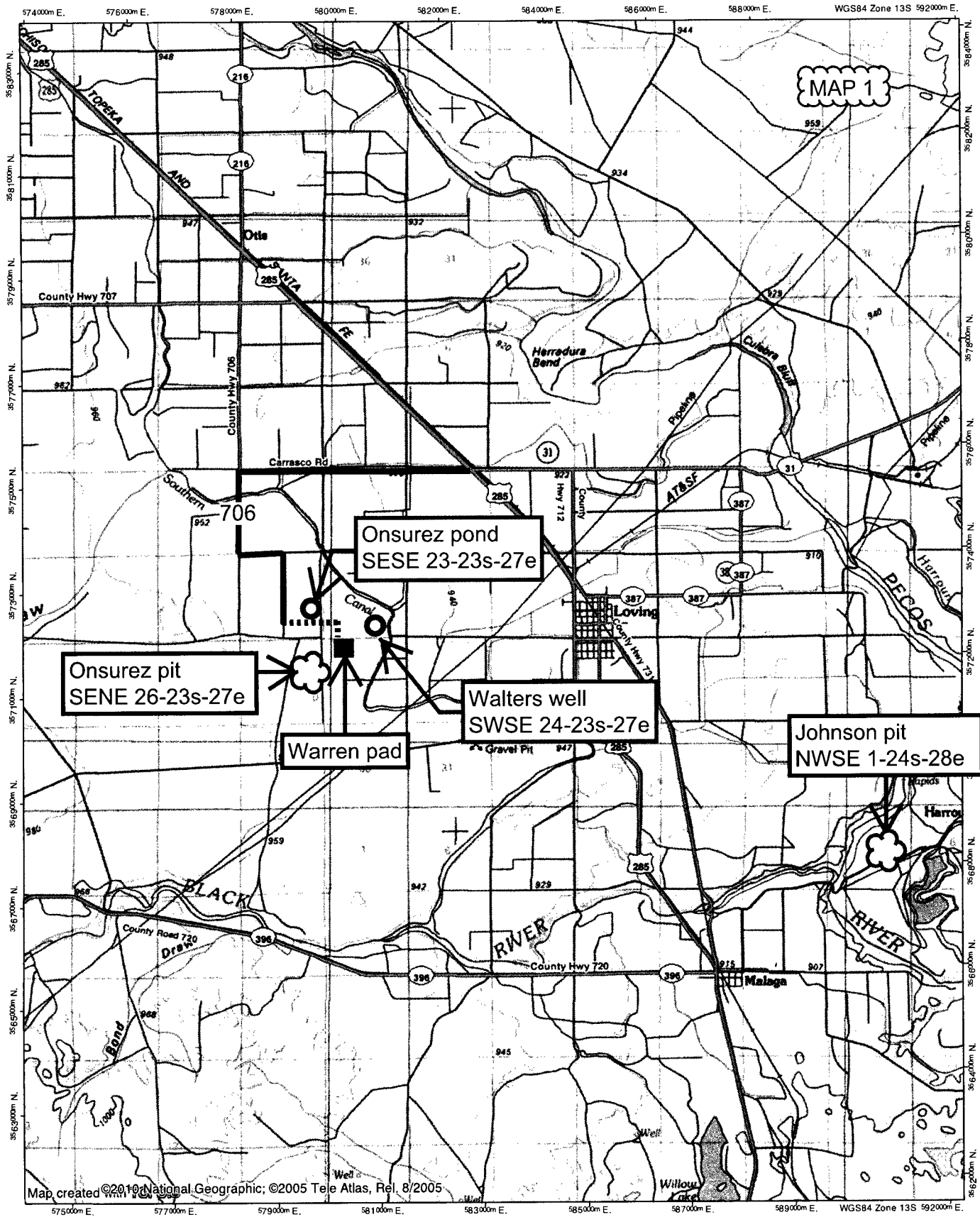
attachment submitted on 7/20/17 - do not understand deficiency request).

Use a previously conducted onsite? YES

Previous Onsite information: ONSITE INSPECTION WAS HELD WITH VANCE WOLF (BLM) ON NOVEMBER 29, 2016.

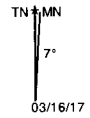
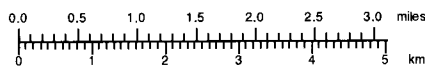
Other SUPO Attachment

Warren_201H_General_SUPO_07-20-2017.pdf



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MAP 2

1 mile radius

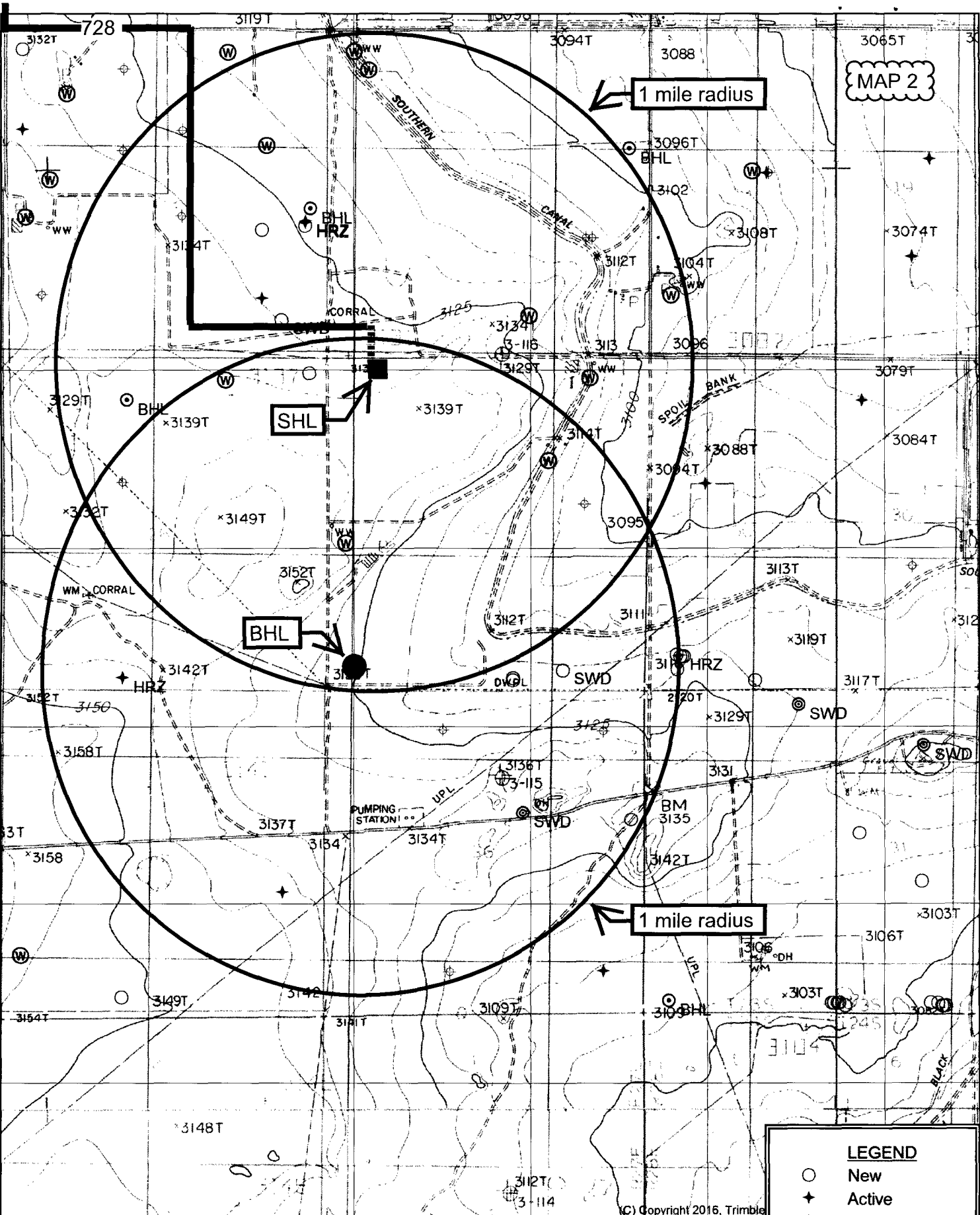
1 mile radius

SHL

BHL

LEGEND

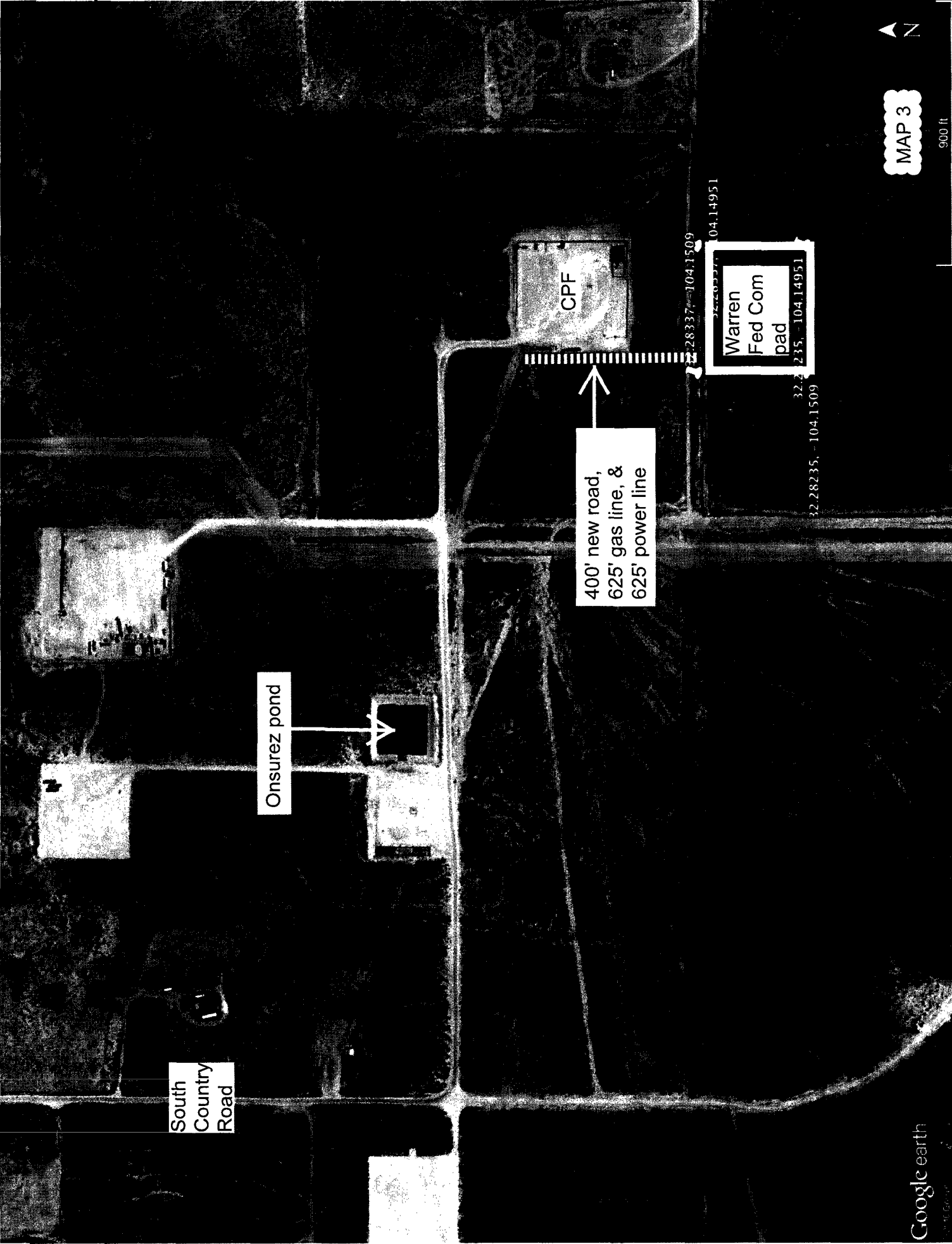
- New
- ✦ Active
- ⊕ P&A
- ⊙ INJ
- ⊙ SWD
- ⊙ Water



Quad: OTIS
 Scale: 1 inch = 2,000 ft.



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South
Country
Road

Onsurez pond

400' new road,
625' gas line, &
625' power line

CPF

Warren
Fed Com
pad

MAP 3

Google earth

900 ft



32.282335, -104.1509

04.14951

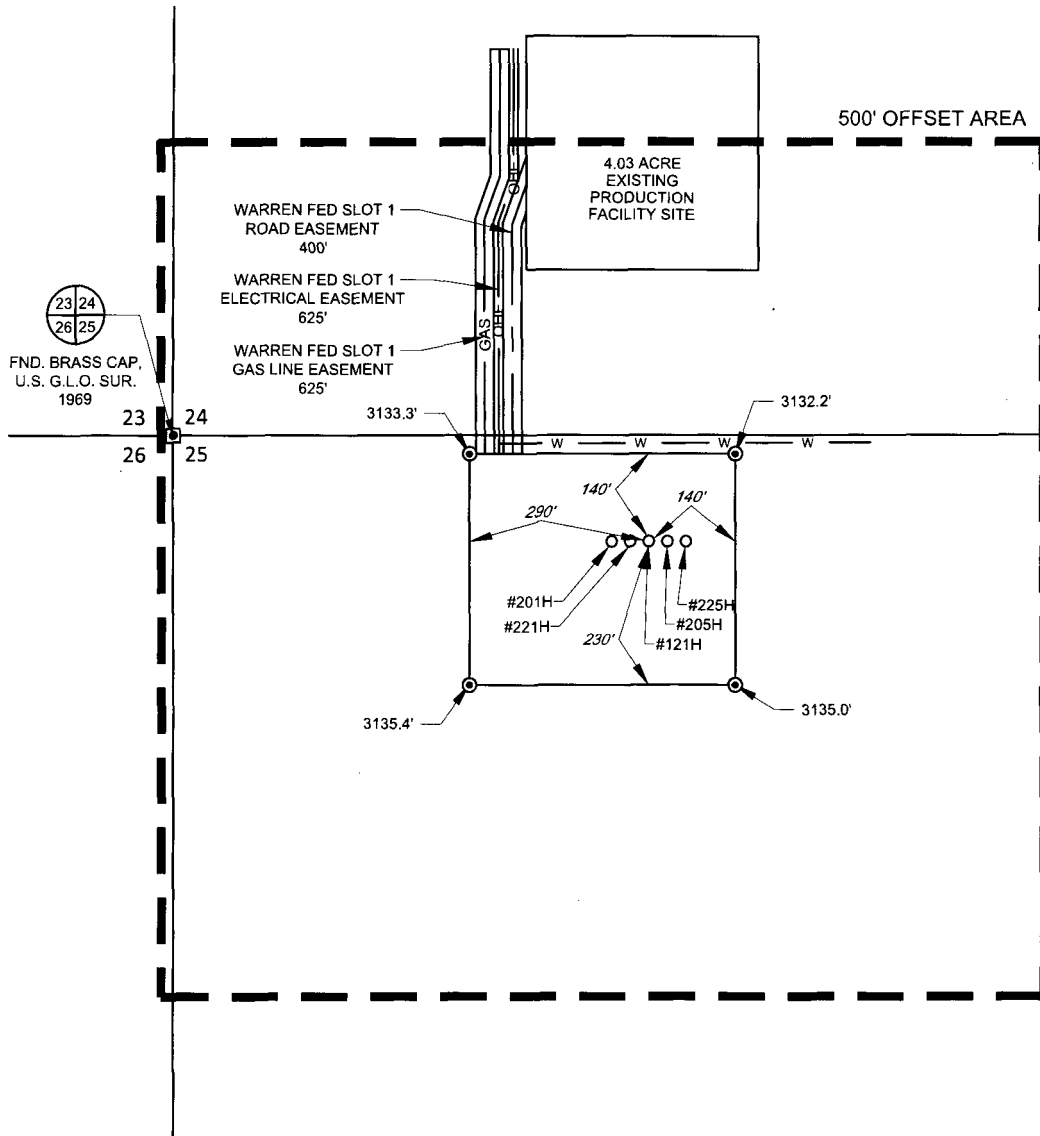
32.282335, -104.1509

32.282335, -104.1509

SCALE: 1" = 300'
 0' 150' 300'

SECTION 25, TOWNSHIP 23-S, RANGE 27-E, N.M.P.M.
 EDDY COUNTY, NEW MEXICO

MAP 4



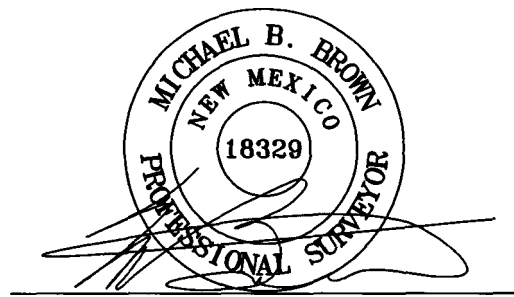
23 24
 26 25
 FND. BRASS CAP.
 U.S. G.L.O. SUR.
 1969

LEGEND

- 500' PROXIMITY
- WATER LINE
- GAS LINE
- OVERHEAD ELECTRIC
- IRON ROD SET



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 DECEMBER 6, 2016

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| WARREN FED COM #121H PROXIMITY MAP | REVISION: | |
| | A.V.F. | 08/05/2016 |
| | A.V.F. | 08/18/2016 |
| DATE: 08/05/2016 | J.S.T. | 08/19/2016 |
| FILE: LO_WARREN_FED_COM_121H_REV6 | E.A.H. | 10/21/2016 |
| DRAWN BY: A.V.F. | G.J.U. | 12/06/2016 |
| SHEET : | | |

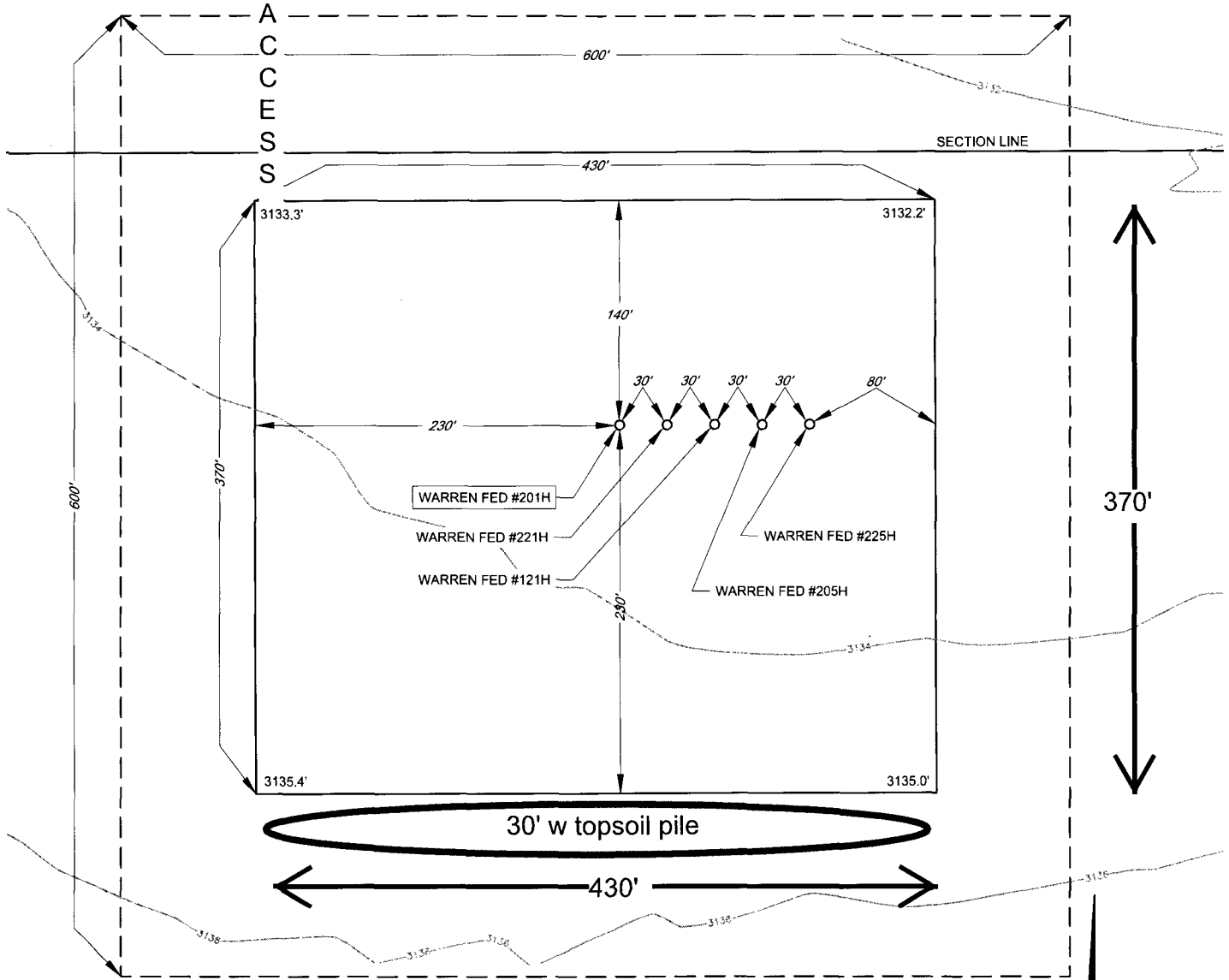
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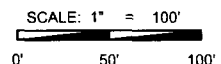
MAP 5

SECTION 25, TOWNSHIP 23-S, RANGE 27-E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

DETAIL VIEW
SCALE: 1" = 100'



LEASE NAME & WELL NO.: WARREN FED #201H
 #201H LATITUDE N 32.2828227 #201H LONGITUDE W 104.1496419



LEGEND

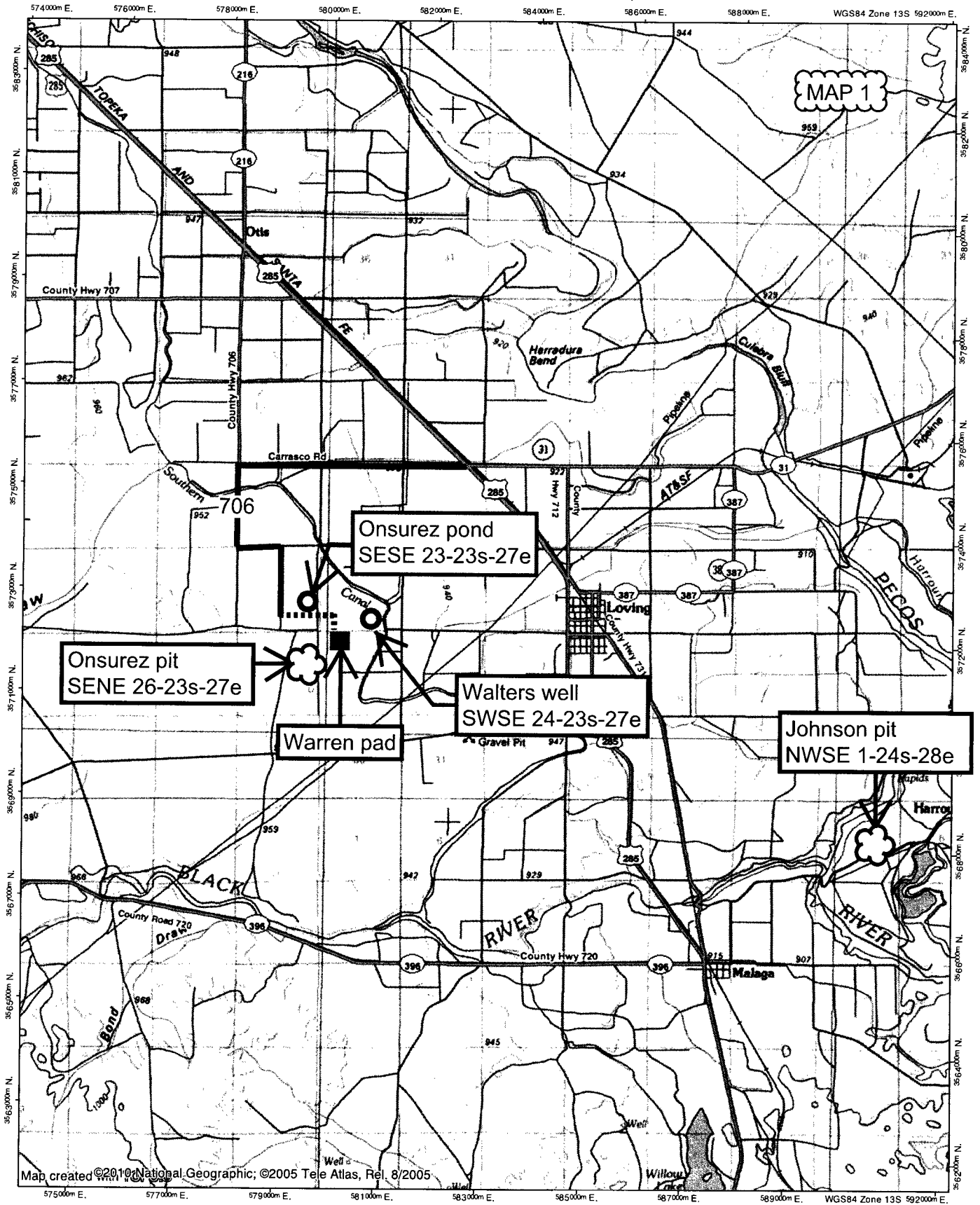
--- ARCH SITE

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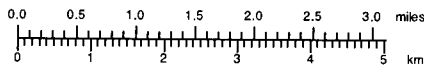


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NATIONAL GEOGRAPHIC



MAP 2

1 mile radius

1 mile radius

SHL

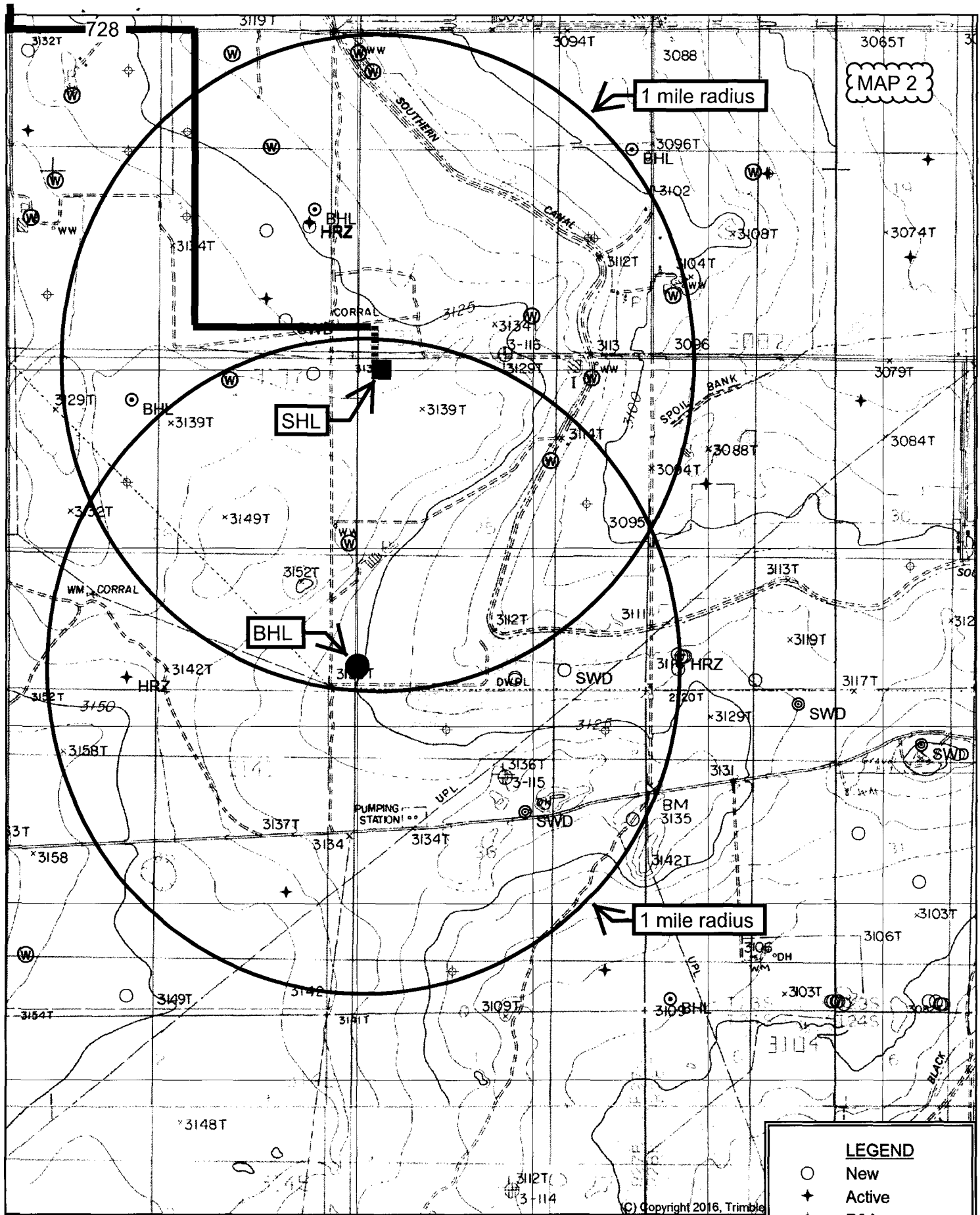
BHL



Quad: OTIS
Scale: 1 inch = 2,000 ft.

| LEGEND | |
|--------|--------|
| ○ | New |
| + | Active |
| ⊕ | P&A |
| ⊙ | INJ |
| ⊗ | SWD |
| ⊕ | Water |

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South
Country
Road

Onsurez pond

CPF

400' new road,
625' gas line, &
625' power line

Warren
Fed Com
pad

22.28337, -104.1509

04.14951

32.28235, -104.1509

MAP 3

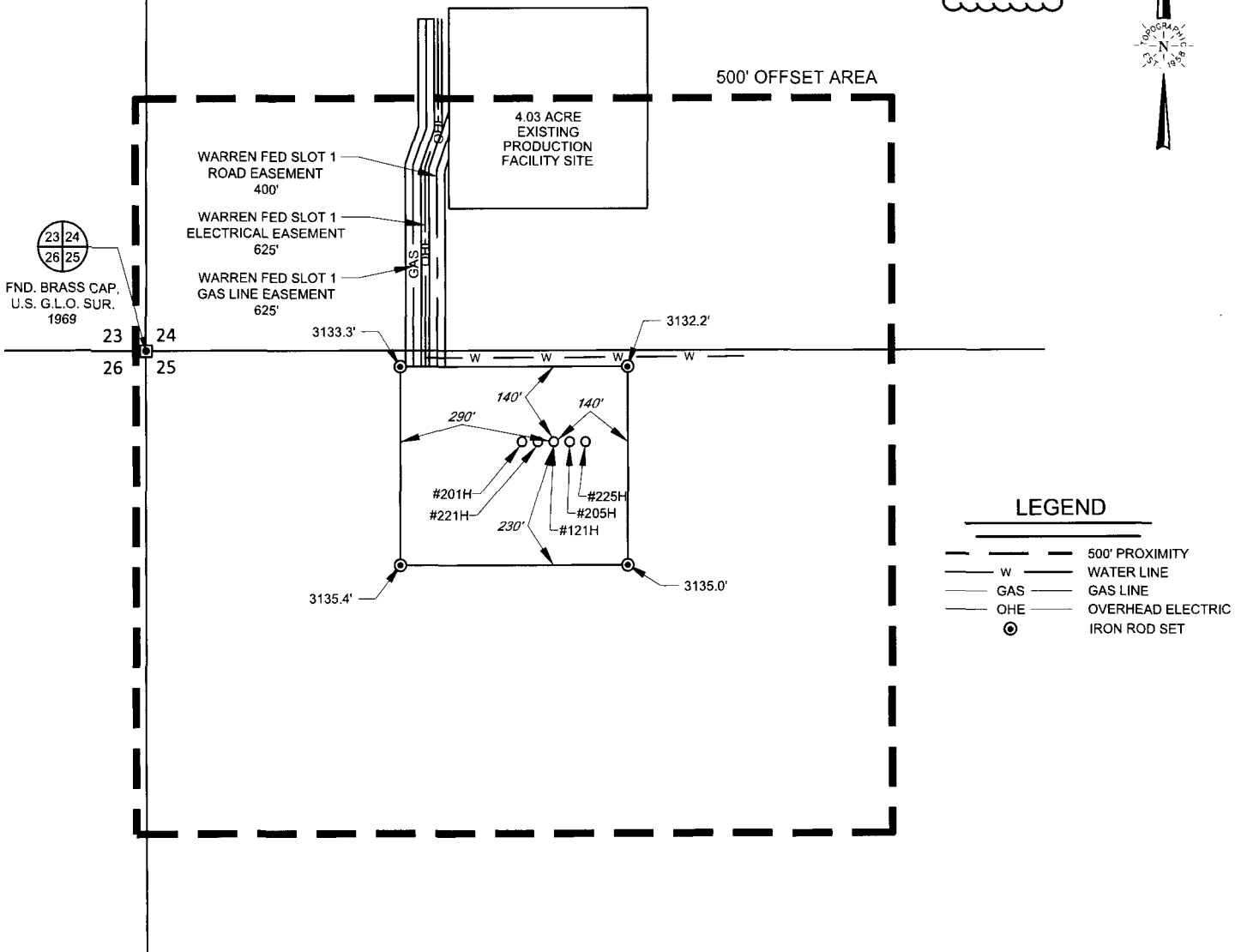
900 ft

SCALE: 1" = 300'

0' 150' 300'

SECTION 25, TOWNSHIP 23-S, RANGE 27-E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

MAP 4



LEGEND

- 500' PROXIMITY
- W WATER LINE
- GAS LINE
- OHE OVERHEAD ELECTRIC
- ⊙ IRON ROD SET



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Michael Blake Brown, P.S. No. 18329
DECEMBER 6, 2016

| | | |
|--|-----------|------------|
| WARREN FED COM #121H PROXIMITY MAP | REVISION: | |
| | A.V.F. | 08/05/2016 |
| DATE: 08/05/2016 | J.S.T. | 08/19/2016 |
| FILE: LO_WARREN_FED_COM_121H_REV6 | E.A.H. | 10/21/2016 |
| DRAWN BY: A.V.F. | G.J.U. | 12/06/2016 |
| SHEET : | | |

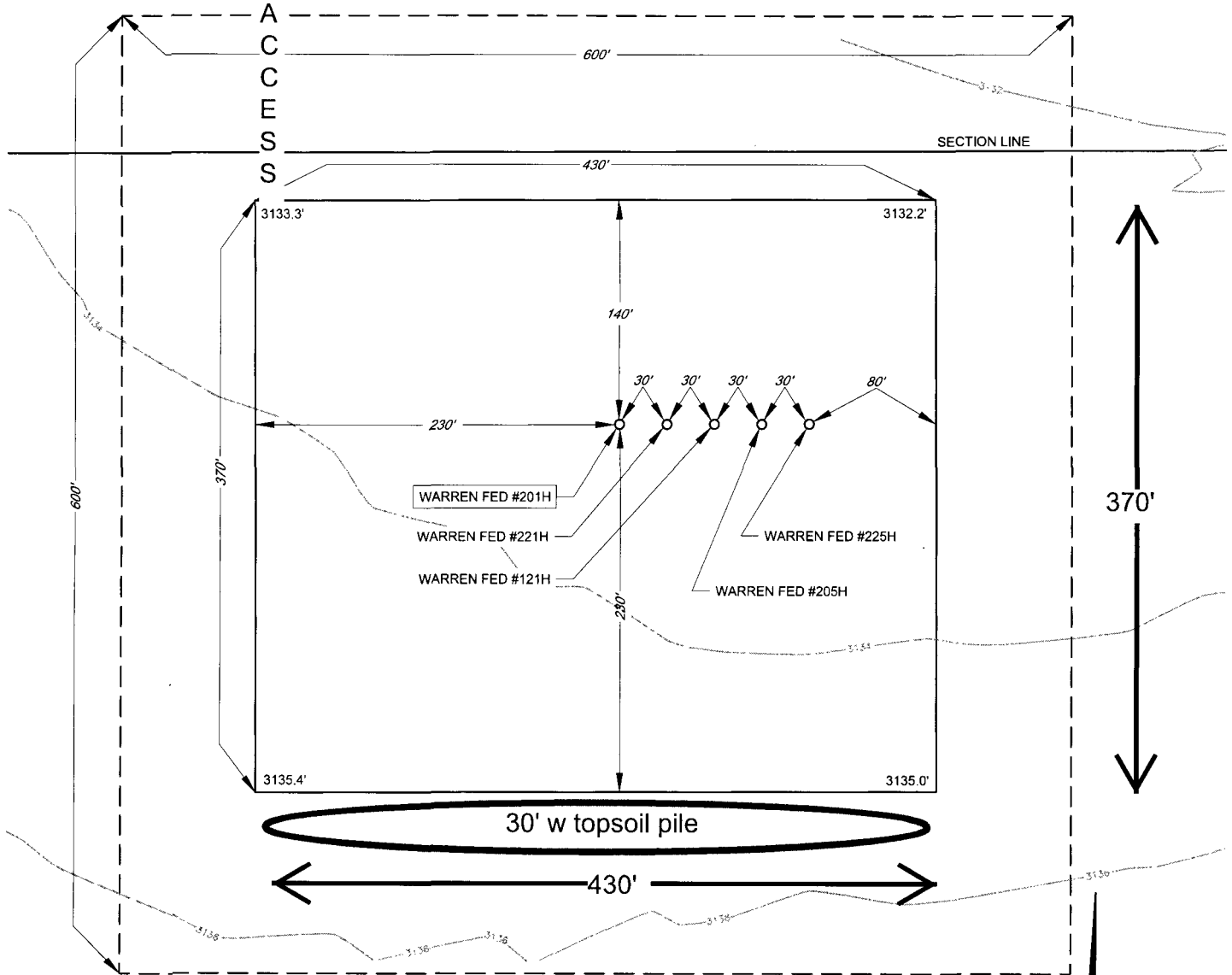
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MAP 5

SECTION 25, TOWNSHIP 23-S, RANGE 27-E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

DETAIL VIEW
SCALE: 1" = 100'



LEASE NAME & WELL NO.: WARREN FED #201H
 #201H LATITUDE N 32.2828227 #201H LONGITUDE W 104.1496419

LEGEND

--- ARCH SITE

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MAP 2

1 mile radius

1 mile radius

SHL

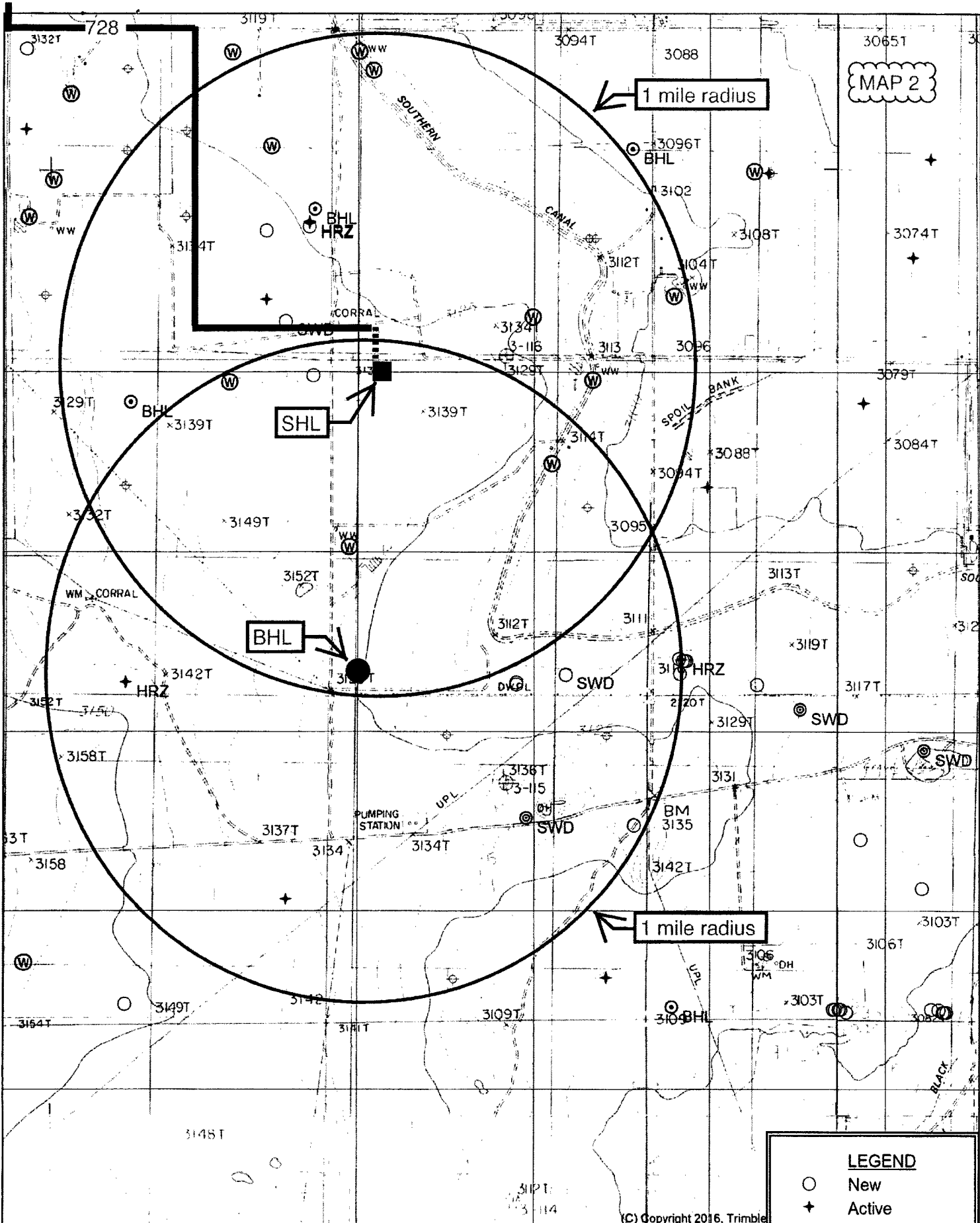
BHL

LEGEND

- New
- + Active
- ⊕ P&A
- ⊙ INJ
- ⊗ SWD
- ⊙ Water

Quad: OTIS
Scale: 1 inch = 2,000 ft.

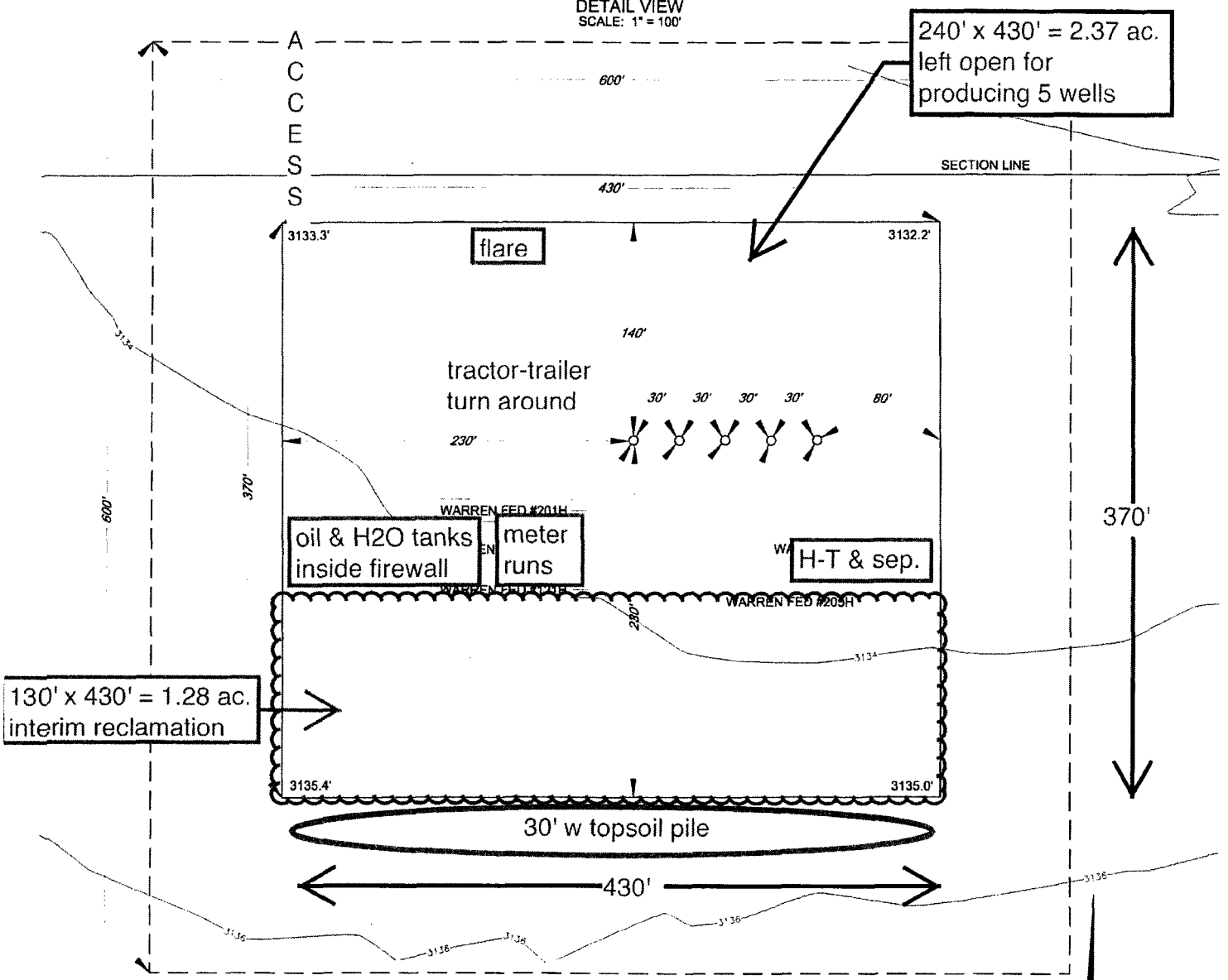
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SECTION 25, TOWNSHIP 23-S, RANGE 27-E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

DETAIL VIEW
SCALE: 1" = 100'



LEASE NAME & WELL NO.: WARREN FED #201H
 #201H LATITUDE N 32.2828227 #201H LONGITUDE W 104.1496419

LEGEND

- _____ ARCH SITE

INTERIM RECLAMATION & PRODUCTION DIAGRAM

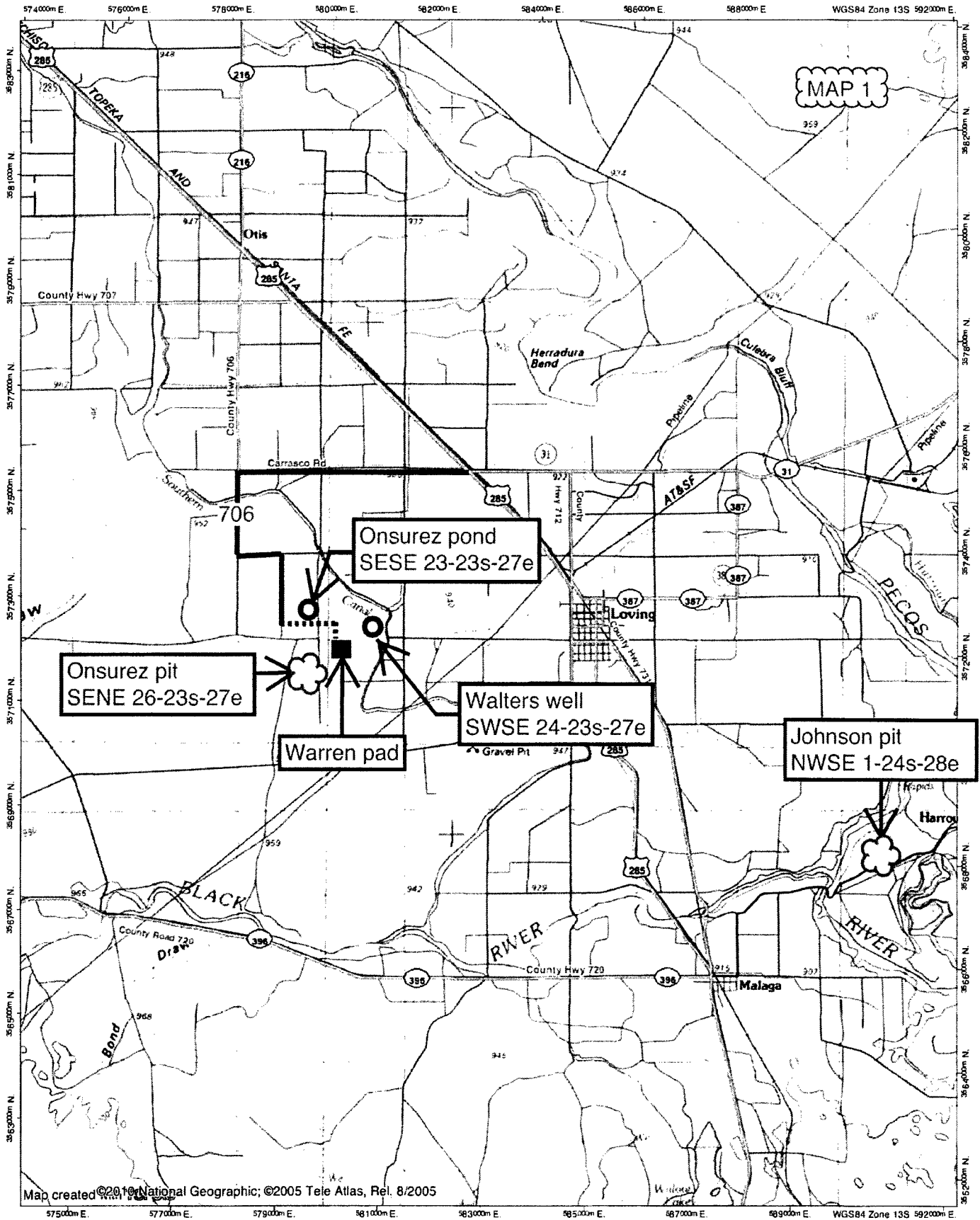
SCALE: 1" = 100'
0' 50' 100'

ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID BASED UPON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE OF THE NORTH AMERICAN DATUM 1927, U.S. SURVEY FEET

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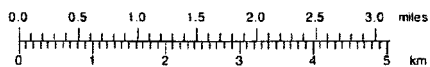


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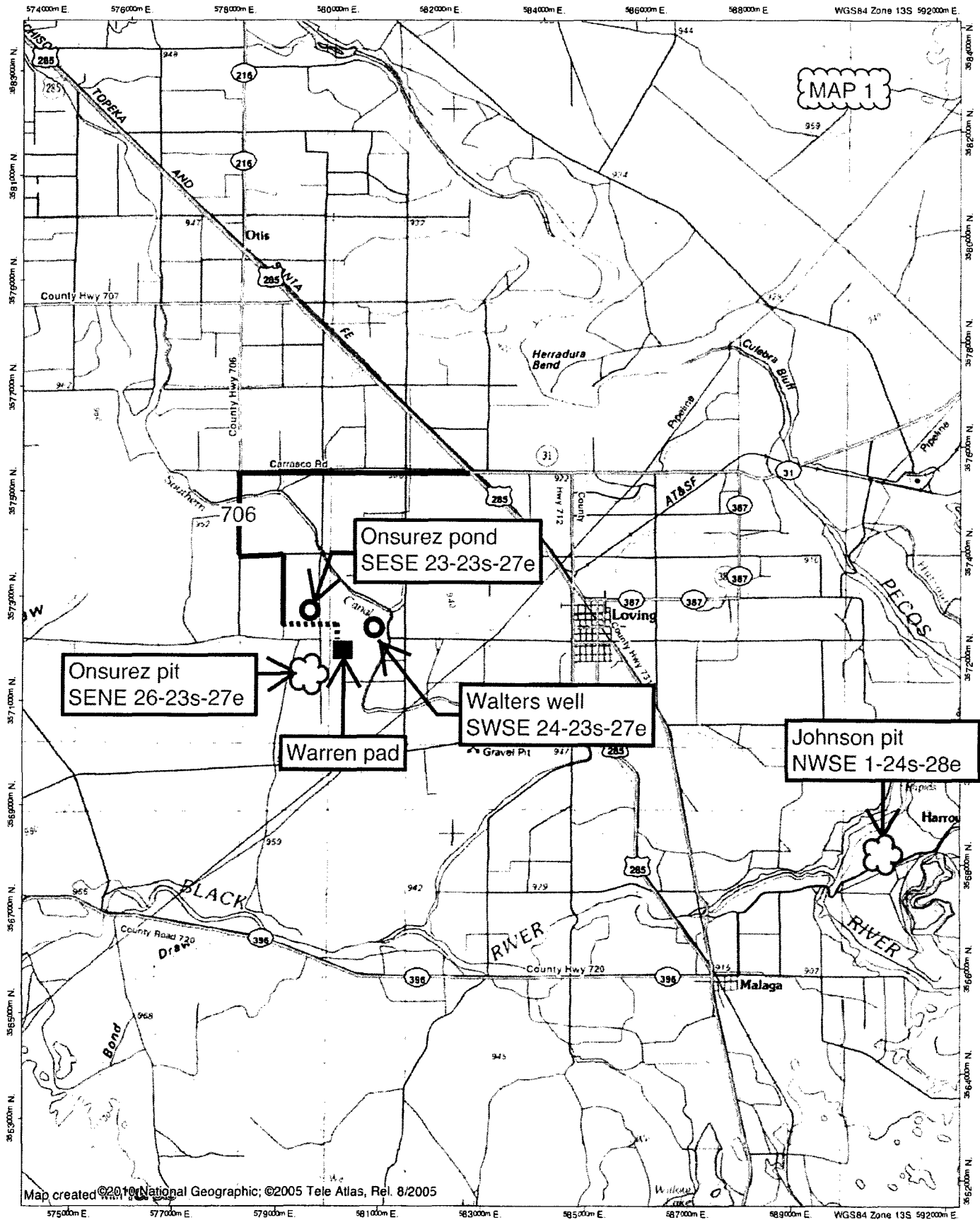
NATIONAL GEOGRAPHIC



TN MN

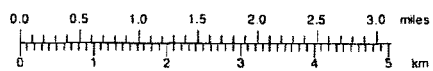


03/16/17



Map created ©2010 National Geographic; ©2005 Tele Atlas, Rel. 8/2005

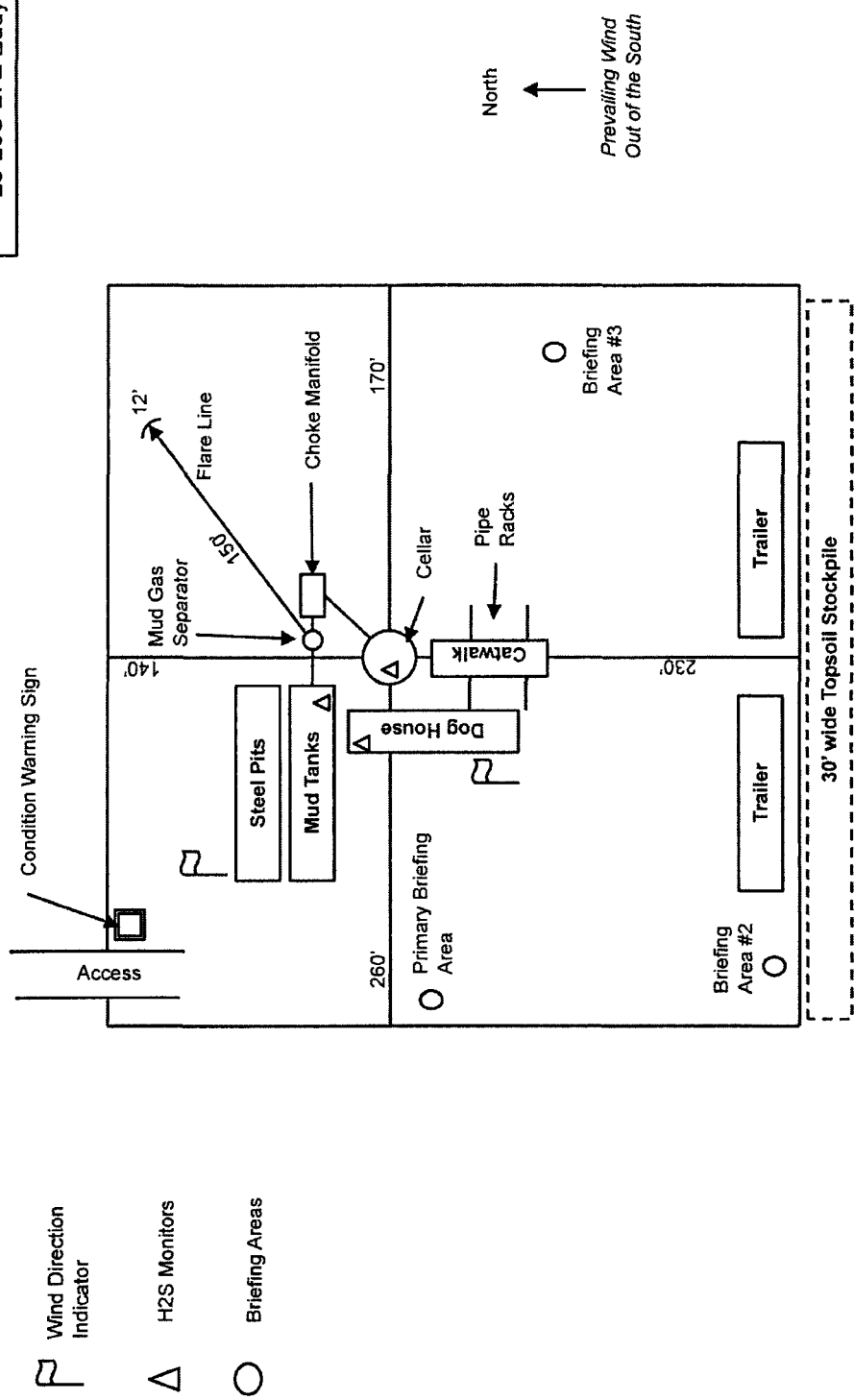
NATIONAL GEOGRAPHIC







TN 6 MN
7°
03/16/17

Rig Diagram

Warren Fed Com 201H
 SHL 170' FNL & 710' FWL
 25-23S-27E Eddy County, NM



-  Wind Direction Indicator
-  H2S Monitors
-  Briefing Areas

North 

Prevailing Wind
 Out of the South



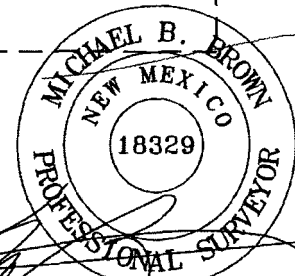
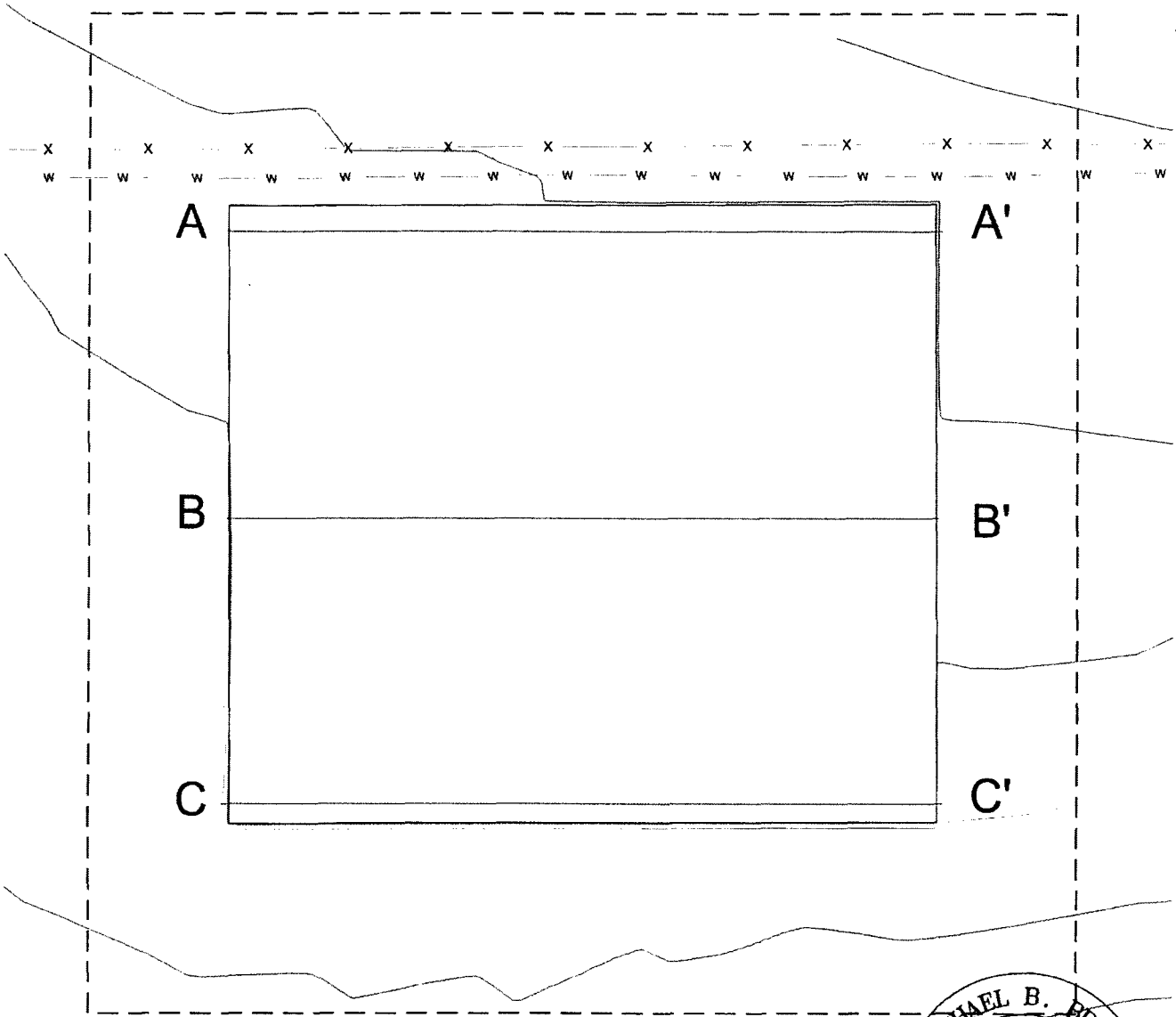
SCALE: 1" = 100'

0' 50' 100'

SECTION 25, TOWNSHIP 23-S, RANGE 27-E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

MAP 6

N



Michael Blake Brown, P.S. No. 18329

DECEMBER 8, 2016

Field note description of even date accompanies this plat.



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LOYALTY INNOVATION LEGACY
1400 EVERMAN PARKWAY, Ste. 197 • FT. WORTH, TEXAS 76140
TELEPHONE: (817) 744-7512 • FAX (817) 744-7548
TEXAS FIRM REGISTRATION NO. 10042504
WWW.TOPOGRAPHIC.COM

| | | |
|--|-----------|------------|
| WARREN FED #221H SURFACE PAD SITE PROFILE | REVISION: | |
| | A.V.F. | 08/08/2016 |
| DATE: 05/17/16 | J.S.T. | 08/19/2016 |
| FILE: CD_WARREN FED 221H SURFACE PAD SITE PRO REV5 | G.L.H. | 11/03/2016 |
| DRAWN BY: S.R.J. | E.A.H. | 11/07/2016 |
| SHEET : | G.J.U. | 12/08/2016 |

NOTES:
1. ORIGINAL DOCUMENT SIZE: 8.5" X 11"
2. ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREIN ARE GRID BASED UPON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, U.S. SURVEY FEET, NORTH AMERICAN DATUM 1927.
3. CERTIFICATION IS MADE ONLY TO THE LOCATION OF THIS EASEMENT, IN RELATION TO THE EVIDENCE FOUND DURING A FIELD SURVEY, MADE ON THE GROUND, UNDER MY SUPERVISION, AND USING DOCUMENTATION PROVIDED BY MATADOR RESOURCE COMPANY. 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 SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE, AND MADE FOR THIS TRANSACTION ONLY.

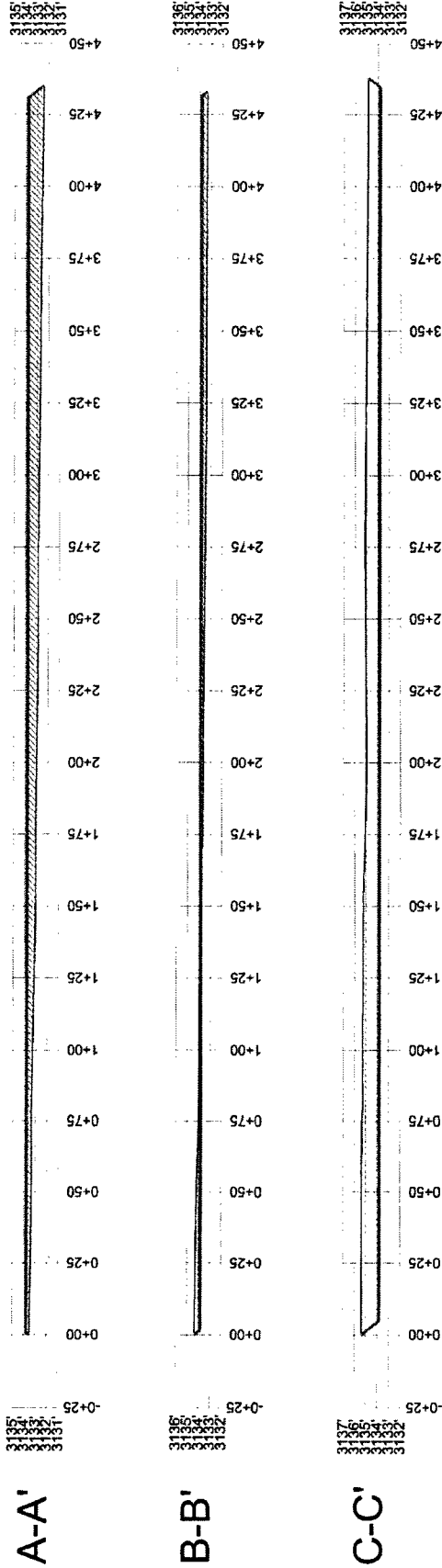


SECTION 25, TOWNSHIP 23-S, RANGE 27-E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

TOP OF PAD ELEVATION:
3133.8033

CUT SLOPE: 33.33% 3.00:1 18.43°
FILL SLOPE: 33.33% 3.00:1 18.43°
BALANCE TOLERANCE (C.Y.): 0.00
CUT SWELL FACTOR: 1.00
FILL SHRINK FACTOR: 1.00

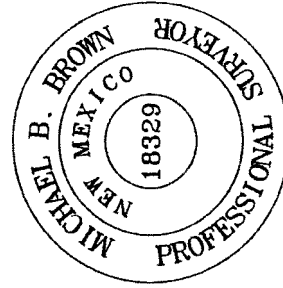
PAD EARTHWORK VOLUMES
CUT: 49,095.1 C.F., 1,818.34 C.Y.
FILL: 49,095.1 C.F., 1,818.34 C.Y.
BALANCE EXPORT: 0.1 C.F., 0.00 C.Y.
AREA: 163655.9 SQ.FT., 3.757 ACRES



Horizontal Scale = 1:60
Vertical Scale = 1:15



1400 EVERMAN PARKWAY, Ste. 197 - FT. WORTH, TEXAS 76140
TELEPHONE: (817) 744-7512 - FAX (817) 744-7548
TEXAS FIRM REGISTRATION NO. 10042504
WWW.TOPOGRAPHIC.COM



[Signature]

Michael Blake Brown, P.S. No. 18329
DECEMBER 8, 2016
MAP 7

Field note description of even date accompanies this plat.

| REVISION: | |
|-----------|--|
| A.V.F. | 08/08/2016 |
| J.S.T. | 08/19/2016 |
| G.L.H. | 11/03/2016 |
| E.A.H. | 11/07/2016 |
| G.J.U. | 12/08/2016 |
| DATE: | 05/17/16 |
| FILE: | CD_WARREN_FED_22H_SURFACE_PAD_SITE_PRO_183 |
| DRAWN BY: | S.R.J. |
| SHEET: | |

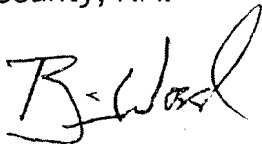
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March 23, 2017

To Who it May Concern:

Matador Resources Company has a private surface owner agreement with William Colwell ((575) 826-3384; 241 Colwell Ranch Rd., Carlsbad NM 88220) for the Warren Fed Com 201H well site, pipeline, power line, and road in Section 25, T. 23 S., R. 27 E. Eddy County, NM.

Matador Resources Company has a private surface owner agreement with Antonio Onsurez, Trustee ((575) 706-2280; PO Box 598, Loving NM 88256) for the road, pipeline, and power line in Section 24, T. 23 S., R. 27 E. Eddy County, NM.

A handwritten signature in black ink, appearing to read "B. Wood". The signature is stylized with a large, looped initial "B" and a cursive "Wood".

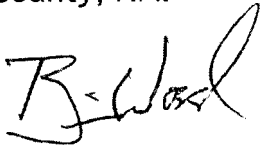
Brian Wood

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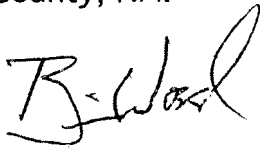
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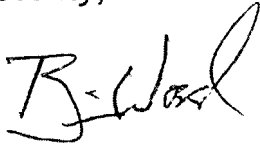
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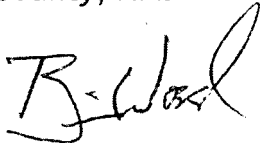
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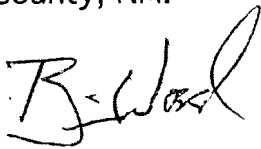
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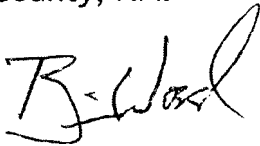
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Brian Wood

Matador Production Company
Warren Fed Com 201H
SHL 170' FNL & 710' FWL Sec. 25
BHL 240' FSL & 330' FWL Sec. 25
T. 23 S., R. 27 E., Eddy County, NM

SURFACE PLAN PAGE 1

Surface Use Plan

1. ROAD DIRECTIONS & DESCRIPTIONS (See MAPS 1 - 5)

From the gas stations in Loving, NM...

Go NW 2-1/4 miles on US 285

Then turn left and go W 2-3/4 miles on Carrasco Road

Then turn left and go S 1.0 mile on County Road 706

Then turn left and go E 0.6 mile on County Road 728

Then turn right and go S 0.85 mile on South Country Road

Then turn left and go E 1/2 mile on an existing Onsurez private road

Then turn right and go S 1/10 mile onto a central production facility (CPF)

Then veer right off the CPF and go S ≈400' cross-country to the Warren pad

Non-county roads will be maintained as needed to Gold Book standards. This includes pulling ditches, preserving the crown, and cleaning culverts. This will be done at least once a year, and more often as needed. Caliche will be hauled from existing pits on private land (Onsurez pit in SENE 26-23s-27e or Johnson pit in NWSE 1-24s-28e).

2. ROAD TO BE BUILT OR UPGRADED (See MAPS 2 - 5)

Four hundred feet of new road will be built. The new road will be crowned and ditched, have a 14' wide driving surface, and be surfaced with caliche. A cattle guard will be installed in the fence north of the pad. Maximum disturbed width = 30'. Maximum grade = 1%. Maximum cut or fill = 1'. No upgrade, culvert, or vehicle turn out is needed.

Matador Production Company
Warren Fed Com 201H
SHL 170' FNL & 710' FWL Sec. 25
BHL 240' FSL & 330' FWL Sec. 25
T. 23 S., R. 27 E., Eddy County, NM

SURFACE PLAN PAGE 2

3. EXISTING WELLS (See MAP 2)

Existing oil, gas, water, disposal, and P & A wells are within a mile. No injection well is within a mile.

4. PROPOSED PRODUCTION FACILITIES (see MAPS 3 & 4)

Facilities will be built on the south side of the pad (see Interim Reclamation & Production Diagram). Six hundred twenty-five feet of buried gas pipeline and 625' of overhead raptor safe 3-phase power line will be built north to tie into the CPF lines. Pipeline (1/well) will be 3" O. D., carbon steel, Schedule 80 x 52. Operating pressure will be ≤ 1200 psi.

5. WATER SUPPLY (See MAPS 1 - 4)

Water will be surface pipelined from the existing Onsurez frac pond (SESE 23-23s-27e) or existing Walters well (SWSE 24-23s-27e)

6. CONSTRUCTION MATERIALS & METHODS (see MAP 5)

NM One Call (811) will be notified before construction starts. There is a buried water line north of the pad and south of the fence. Top ≈ 6 " of soil and brush will be stockpiled south of the pad. Pipe racks will be to the south. A closed loop drilling system will be used. Caliche will be hauled from existing pits on private land (Onsurez pit in SENE 26-23s-27e or Johnson pit in NWSE 1-24s-28e).

7. WASTE DISPOSAL

All trash will be placed in a portable trash cage. It will be hauled to the Eddy County landfill. There will be no trash burning. Contents (drill cuttings, mud,

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SHL 170' FNL & 710' FWL Sec. 25
BHL 240' FSL & 330' FWL Sec. 25
T. 23 S., R. 27 E., Eddy County, NM

SURFACE PLAN PAGE 3

salts, and other chemicals) of the mud tanks will be hauled to R360's state approved (NM1-6-0) disposal site at Halfway. Human waste will be disposed of in chemical toilets and hauled to the Carlsbad wastewater treatment plant.

8. ANCILLARY FACILITIES

There will be no airstrip or camp. Camper trailers will be on location for the company man, tool pusher, or mud logger.

9. WELL SITE LAYOUT

See Rig Diagram for depictions of the well pad, trash cage, access onto the location, parking, living facilities, and rig orientation.

10. RECLAMATION

Interim reclamation will shrink the pad \approx 35% by removing caliche and reclaiming the south side (130' x 430'), leaving 2.37 acres for 5 wells, truck turn around, and production equipment. Disturbed areas will be contoured to match pre-construction grades. Soil and brush will be evenly spread over disturbed areas. Disturbed areas will be seeded in accordance with BLM requirements. Enough stockpiled topsoil will be retained to cover the remainder of the pad when the wells are plugged. Once the last well is plugged, then the remainder of the pad and new road will be similarly reclaimed. Noxious weeds will be controlled.

11. SURFACE OWNER

All construction will be on private land. Matador has a private surface owner agreement with William Colwell ((575) 826-3384; 241 Colwell Ranch Rd., Carlsbad NM 88220) for the well site and part of the pipeline, power line, and

Matador Production Company
Warren Fed Com 201H
SHL 170' FNL & 710' FWL Sec. 25
BHL 240' FSL & 330' FWL Sec. 25
T. 23 S., R. 27 E., Eddy County, NM

SURFACE PLAN PAGE 4

road. Matador has a private surface owner agreement with Antonio Onsurez, Trustee ((575) 706-2280; PO Box 598, Loving NM 88256) for the remainder of the road, pipeline, and power line.

Land use: 625' x 45' pipeline & power line corridor = 0.65 acres
 400' x 30' road = 0.28 acres
 + 370' x 430' pad = 3.65 acres
 4.58 acres short term
 - 1.28 acres interim reclamation on pad
 - 0.43 acres reclaimed pipeline (all)
 2.87 acres long term

12. OTHER INFORMATION

On site inspection was held with Vance Wolf (BLM) on November 29, 2016.

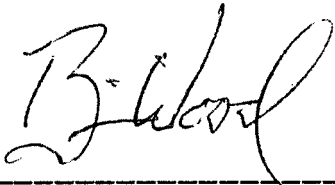
Lone Mountain filed archaeology report NMCRIS-137745 on March 22, 2017.

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T. 23 S., R. 27 E., Eddy County, NM

SURFACE PLAN PAGE 5

CERTIFICATION

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. Executed this 23rd day of March, 2017.



Brian Wood, Consultant
Permits West, Inc.

37 Verano Loop, Santa Fe, NM 87508

(505) 466-8120

FAX: (505) 466-9682

Cellular: (505) 699-2276

Field representative will be:

Sam Pryor, Senior Staff Landman

Matador Production Company

5400 LBJ Freeway, Suite 1500

Dallas TX 75240

Phone: (972) 371-5241

FAX: (214) 866-4841



Section 1 - General

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

Section 2 - Lined Pits

Would you like to utilize Lined Pit PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Lined pit PWD on or off channel:

Lined pit PWD discharge volume (bbl/day):

Lined pit specifications:

Pit liner description:

Pit liner manufacturers information:

Precipitated solids disposal:

Describe precipitated solids disposal:

Precipitated solids disposal permit:

Lined pit precipitated solids disposal schedule:

Lined pit precipitated solids disposal schedule attachment:

Lined pit reclamation description:

Lined pit reclamation attachment:

Leak detection system description:

Leak detection system attachment:

Lined pit Monitor description:

Lined pit Monitor attachment:

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 attachment:

Section 3 - Unlined Pits

Would you like to utilize Unlined Pit PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Unlined pit PWD on or off channel:

Unlined pit PWD discharge volume (bbl/day):

Unlined pit specifications:

Precipitated solids disposal:

Describe precipitated solids disposal:

Precipitated solids disposal permit:

Unlined pit precipitated solids disposal schedule:

Unlined pit precipitated solids disposal schedule attachment:

Unlined pit reclamation description:

Unlined pit reclamation attachment:

Unlined pit Monitor description:

Unlined pit Monitor attachment:

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

Beneficial use user confirmation:

Estimated depth of the shallowest aquifer (feet):

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 evidence:

State authorization:

Unlined Produced Water Pit Estimated percolation:

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 attachment:

Section 4 - Injection

Would you like to utilize Injection PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

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 attachment:

Underground Injection Control (UIC) Permit?

UIC Permit attachment:

Section 5 - Surface Discharge

Would you like to utilize Surface Discharge PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

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:

Section 6 - Other

Would you like to utilize Other PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Other PWD discharge volume (bbl/day):

Other PWD type description:

Other PWD type attachment:

Have other regulatory requirements been met?

Other regulatory requirements attachment:



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

Bond Info Data Report

12/21/2017

Bond Information

Federal/Indian APD: FED

BLM Bond number: NMB001079

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 number:

Reclamation bond amount:

Reclamation bond rider amount:

Additional reclamation bond information attachment: