NM OIL CONSERVATION
ARTESIA DISTRICT
JAN 03 2018

Form 3160-3
(March 2012)

RECEIVED

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.: NMNM117115

6. If Indian, Allotee or Tribe Name:

1a. Type of work: ☑ DRILL ☐ REENTER

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

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

8. Lease Name and Well No.: WARREN FED COM 205H 317096

2. Name of Operator: MATADOR PRODUCTION COMPANY 228937

9. API Well No.: 30-015-44616

3a. Address: 5400 LBJ Freeway, Suite 1500 Dallas TX 752

3b. Phone No. *(include area code)*: (972)371-5200

10. Field and Pool, or Exploratory: PURPLE SAGE / WOLFCAMP, (GAS) 98220

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

At surface: NWNW / 170 FNL / 800 FWL / LAT 32.2829425 / LONG -104.1498478

At proposed prod. zone: SWSW / 240 FSL / 990 FWL / LAT 32.2693438 / LONG -104.1492297

11. Sec., T. R. M. or Blk. and Survey or Area: SEC 25 / T23S / R27E / NMP

14. Distance in miles and direction from nearest town or post office*: 3 miles

12. County or Parish: EDDY

13. State: NM

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any): 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, applied for, on this lease, ft.: 60 feet

19. Proposed Depth: 9350 feet / 14185 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:

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

25. Signature	Name *(Printed/Typed)*	Date
(Electronic Submission)	Brian Wood / Ph: (505)466-8120	03/29/2017

Title: President

Approved by *(Signature)*	Name *(Printed/Typed)*	Date
(Electronic Submission)	Cody Layton / Ph: (575)234-5959	12/21/2017

Title	Office
Supervisor Multiple Resources	CARLSBAD

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

RWP 1-5-18

Additional Operator Remarks

Location of Well

1. SHL: NWNW / 170 FNL / 800 FWL / TWSP: 23S / RANGE: 27E / SECTION: 25 / LAT: 32.2829425 / LONG: -104.1498478 (TVD: 0 feet, MD: 0 feet)
   PPP: NWSW / 2640 FNL / 895 FWL / TWSP: 23S / RANGE: 27E / SECTION: 25 / LAT: 32.276047 / LONG: -104.14923 (TVD: 9350 feet, MD: 11785 feet)
   BHL: SWSW / 240 FSL / 990 FWL / TWSP: 23S / RANGE: 27E / SECTION: 25 / LAT: 32.2693438 / LONG: -104.1492297 (TVD: 9350 feet, MD: 14185 feet)

BLM Point of Contact

Name: Tenille Ortiz
Title: Legal Instruments Examiner
Phone: 5752342224
Email: tortiz@blm.gov

PECOS DISTRICT
DRILLING OPERATIONS
CONDITIONS OF APPROVAL

OPERATOR'S NAME:	MATADOR PRODUCTION CO.
LEASE NO.:	NMNM117115
WELL NAME & NO.:	205H – WARREN FED COM
SURFACE HOLE FOOTAGE:	170'/N & 800'/W
BOTTOM HOLE FOOTAGE	240'/S & 990'/W
LOCATION:	Section 25 T.23 S., R.27 E., NMPM
COUNTY:	Eddy County, New Mexico

Potash	◉ None	○ Secretary	○ R-111-P
Cave/Karst Potential	○ Low	◉ Medium	○ High
Variance	○ None	◉ Flex Hose	○ Other
Wellhead	○ Conventional	◉ Multibowl	
Other	☐ 4 String Area	☐ Capitan Reef	☐ 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

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

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.

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

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.

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.

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.

A method of detecting leaks is required. The method could incorporate gauges to measure loss, situating values 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 values, 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

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.

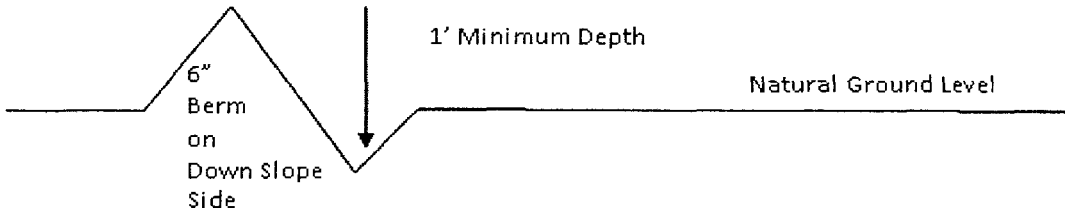
If the operator elects to surface the well pad, the surfacing material may be required to be removed at the time of reclamation. The well pad shall be constructed in a manner which creates the smallest possible surface disturbance, consistent with safety and operational needs.

F. EXCLOSURE FENCING (CELLARS & PITS)

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:

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

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.

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

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.

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.

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

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:

Species	lb/acre
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

AFMSS

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

Application Data Report

12/21/2017

APD ID: 10400012790 **Submission Date:** 03/29/2017

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: WARREN FED COM **Well Number:** 205H

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

Highlighted data reflects the most recent changes

Show Final Text

Section 1 - General

APD ID: 10400012790 **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_205H_Operator_Designation_03-29-2017.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:** 205H **Well API Number:**

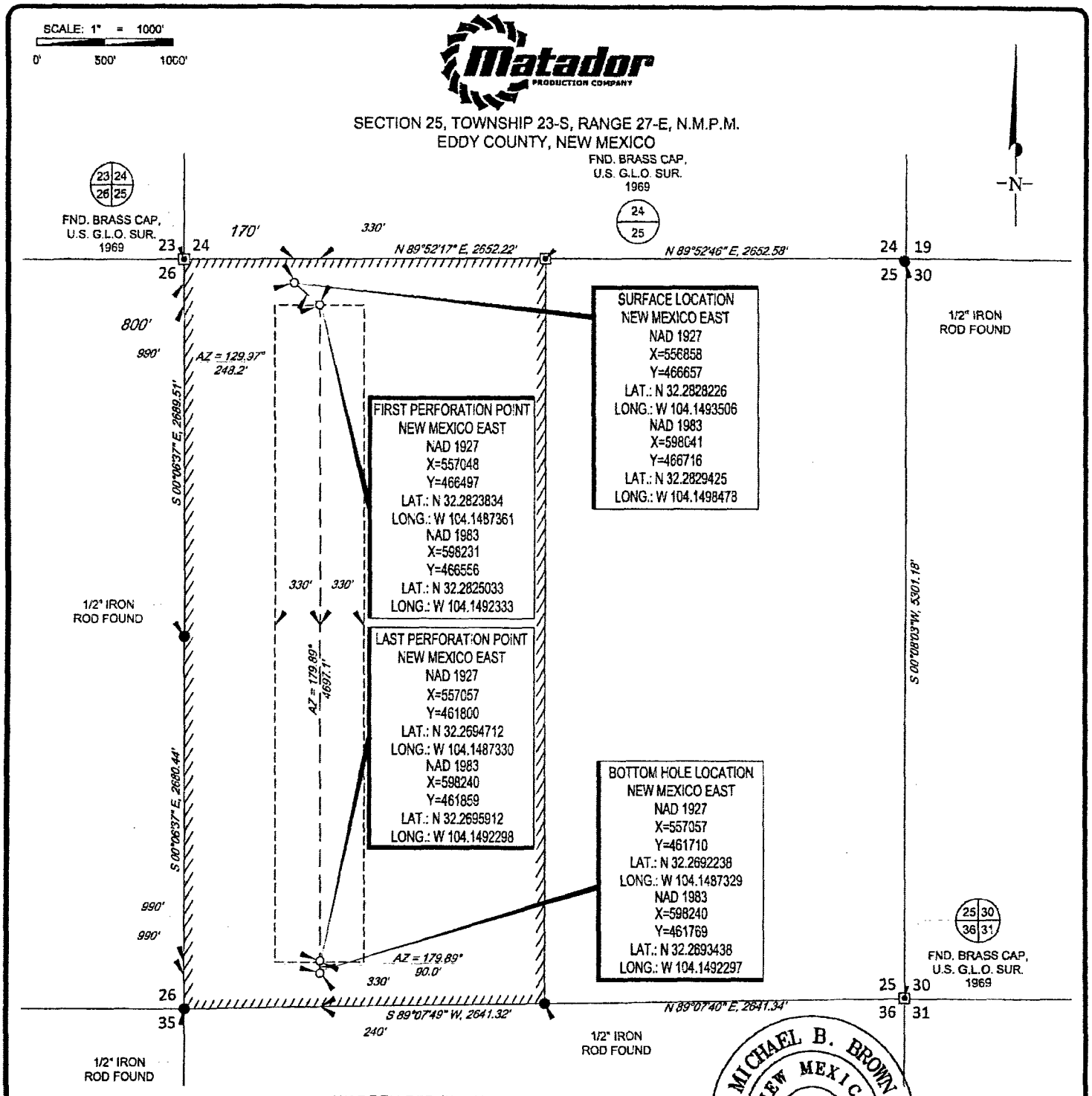
Field/Pool or Exploratory? Field and Pool **Field Name:** PURPLE SAGE **Pool Name:** WOLFCAMP, (GAS)

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:** 205H

	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	990	FWL	23S	27E	25	Aliquot SWSW	32.2693438	-104.1492297	EDDY	NEW MEXICO	NEW MEXICO	F	NMNM 117115	-6217	14185	9350
BHL Leg #1	240	FSL	990	FWL	23S	27E	25	Aliquot SWSW	32.2693438	-104.1492297	EDDY	NEW MEXICO	NEW MEXICO	F	NMNM 117115	-6217	14185	9350



LEASE NAME & WELL NO.: WARREN FED #205H

SECTION 25 TWP 23-S RGE 27-E SURVEY N.M.P.M.

COUNTY EDDY STATE NM

DESCRIPTION 170' FNL & 800' 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

MICHAEL B. BROWN NEW MEXICO 18329 PROFESSIONAL SURVEYOR

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

TOPOGRAPHIC
LOYALTY INNOVATION LEGACY

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: WARREN FED COM **Well Number:** 205H

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_205H_Choke_03-29-2017.pdf

BOP Diagram Attachment:

Warren_205H_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:** 205H

Casing Attachments

Casing ID: 3 **String Type:** INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Warren_205H_Casings_Assumption_Worksheet_03-29-2017.pdf

Casing ID: 4 **String Type:** PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Warren_205H_Casings_Assumption_Worksheet_03-29-2017.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:** 205H

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:

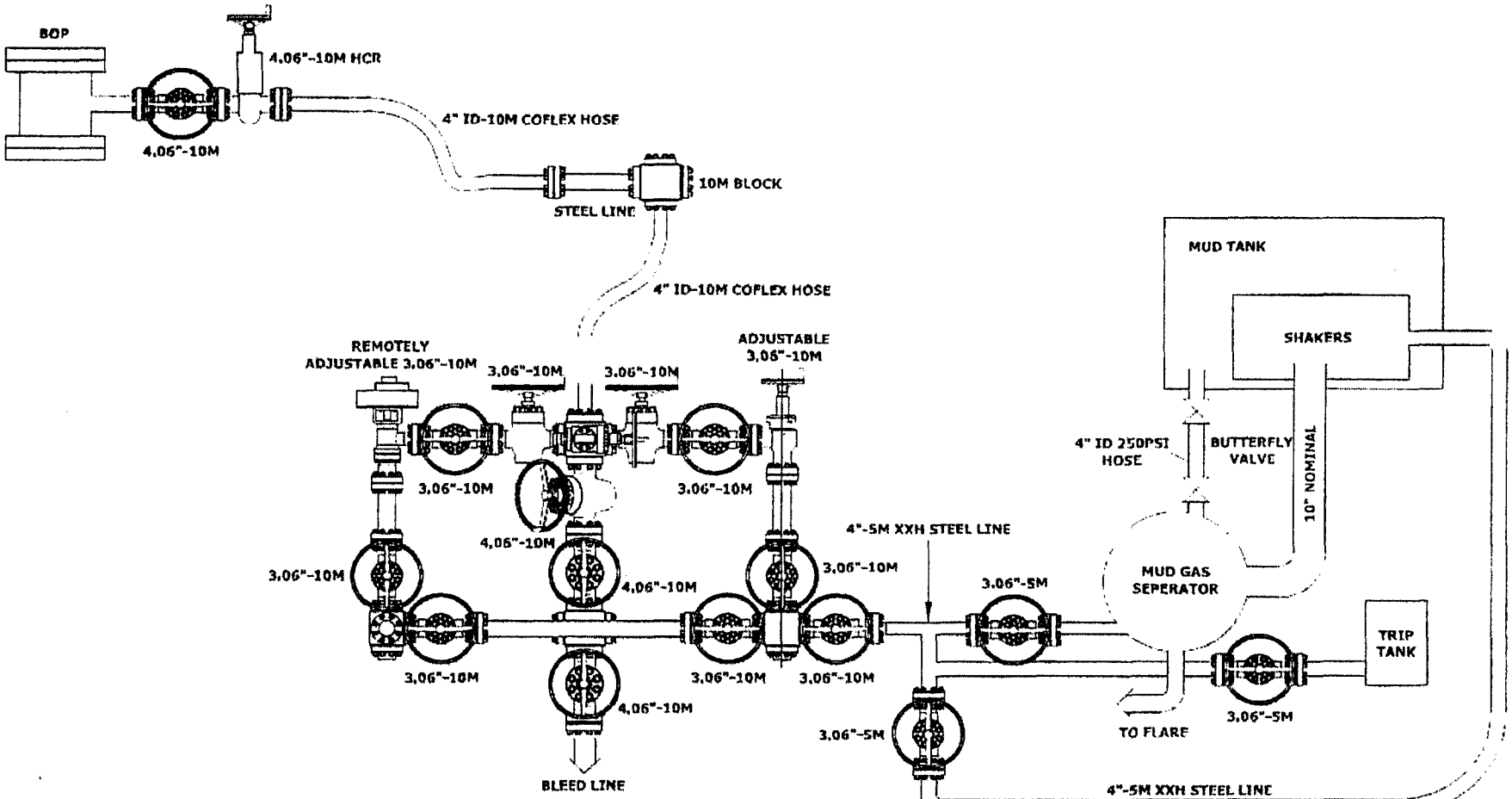
Contingency Plans geoharzards description:

Contingency Plans geohazards attachment:

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations plan:

Warren_205H_H2S_03-29-2017.pdf



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01	[illegible]	[illegible]			
REV.	DATE	DESCRIPTION			

PATTERSON-UTI
DRILLING COMPANY LLC

CHOKE MANIFOLD

15M CHOKE ARRANGEMENT
RIG 297

R0297-D.001.LAY.09

Midwest Hose & Specialty, Inc.

Internal Hydrostatic Test Graph

December 8, 2014

Customer: Patterson

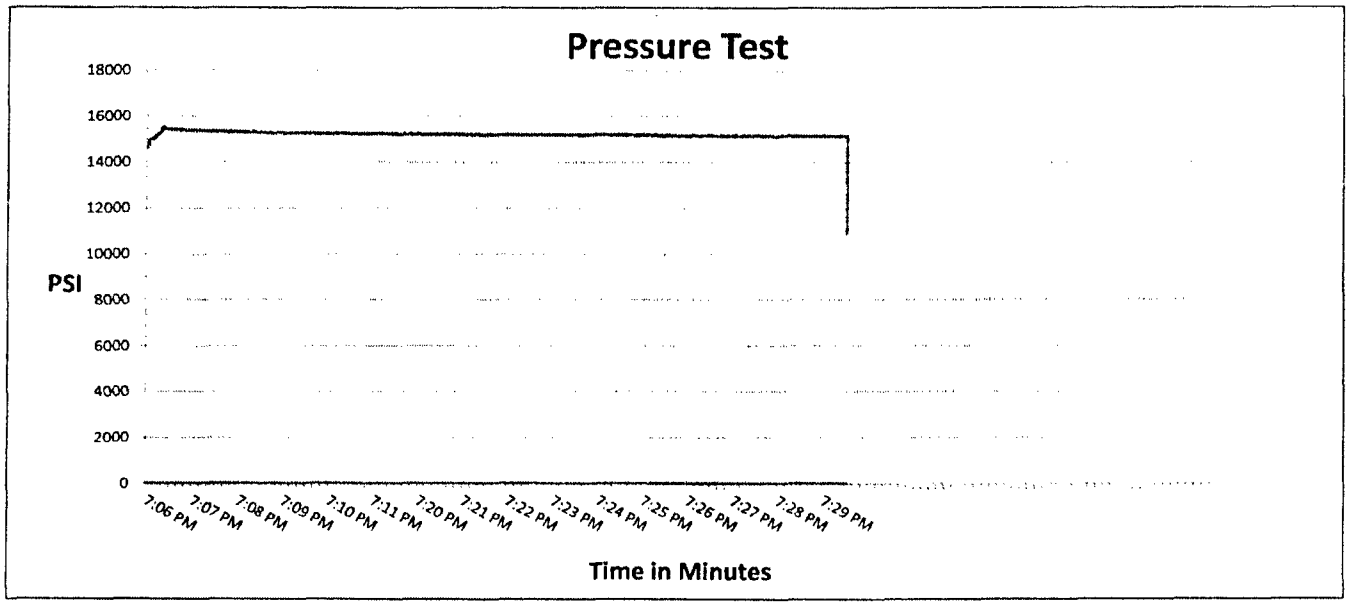
Pick Ticket #: 284918

Hose Specifications

Hose Type	Length
Ck	10'
I.D.	**O.D.**
3"	4.79"
Working Pressure	**Burst Pressure**
10000 PSI	Standard Safety Multiplier Applies

Verification

Type of Fitting	Coupling Method
4-1/16 10K	Swage
Die Size	**Final O.D.**
5.37"	5.37"
Hose Serial #	**Hose Assembly Serial #**
10490	284918-2



Test Pressure	Time Held at Test Pressure	Actual Burst Pressure	Peak Pressure
15000 PSI	15 2/4 Minutes		15732 PSI

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

Tested By: *Tyler Hill*

x

Approved By: *Ryan Adams*

x

Midwest Hose
& Specialty, Inc.

Certificate of Conformity

Customer: **PATTERSON B&E**	*Customer P.O.#* **260471**
Sales Order # **236404**	*Date Assembled:* **12/8/2014**

Specifications

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

Approved By	***Date***
Ryan Adams	**12/9/2014**

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	Tested By	Approved By
12/9/2014		

Midwest Hose & Specialty, Inc.

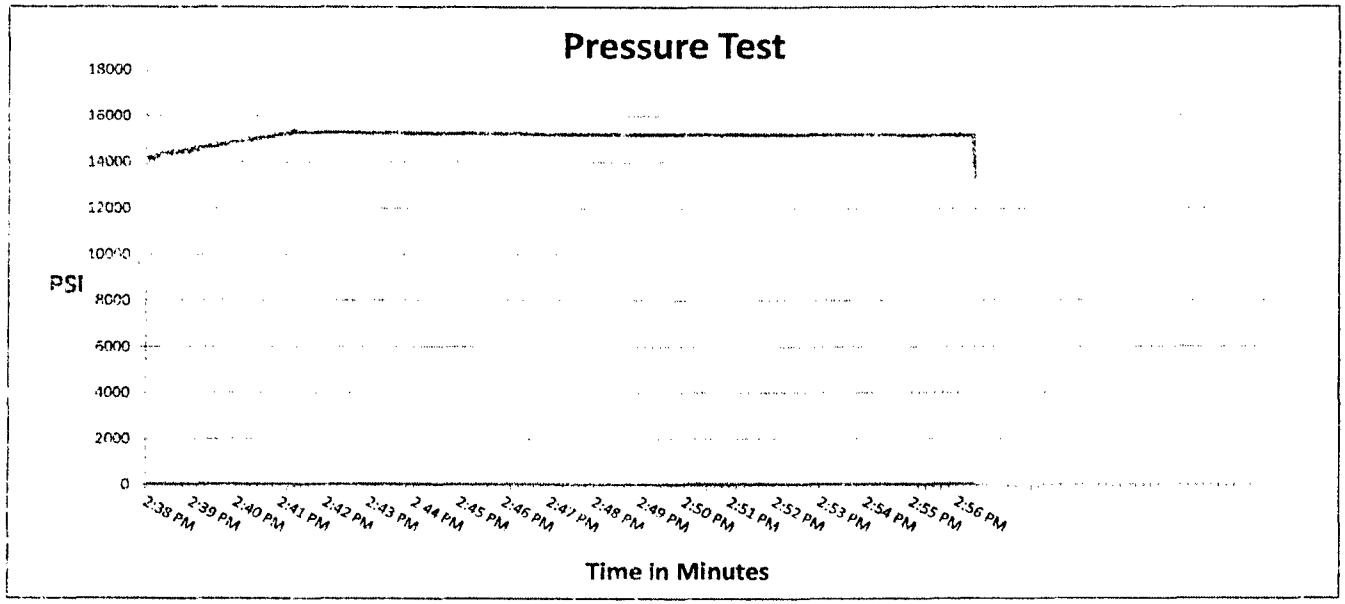
Internal Hydrostatic Test Graph

December 9, 2014

Customer: Patterson

Pick Ticket #: 284918

Hose Specifications		Verification	
Hose Type	**Length**	**Type of Fitting**	**Coupling Method**
Mud	70'	4 1/16 10K	Swage
I.D.	**O.D.**	**Die Size**	**Final O.D.**
3"	4.79"	5.37"	5.37"
Working Pressure	**Burst Pressure**	**Hose Serial #**	**Hose Assembly Serial #**
10000 PSI	Standard Safety Multiplier Applies	10490	284918-3



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

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

Tested By: *Tyler Hill*

Approved By: *Ryan Adams*

Midwest Hose
& Specialty, Inc.

Certificate of Conformity

Customer: **PATTERSON B&E**	*Customer P.O.#* **260471**
Sales Order # **236404**	*Date Assembled:* **12/8/2014**

Specifications

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

Approved By	***Date***
	12/9/2014

- 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.
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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).

- 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).

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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).

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

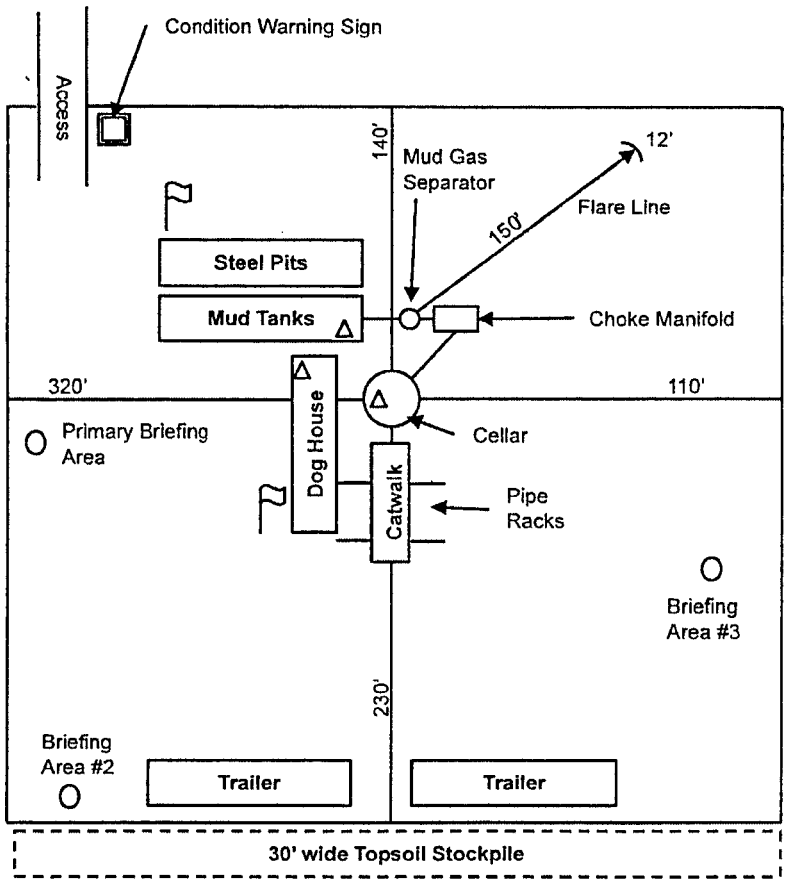
H2S Rig Diagram

Warren Fed Com 205H
SHL 170' FNL & 800' FWL
25-23S-27E Eddy County, NM

Wind Direction Indicator

H2S Monitors

Briefing Areas



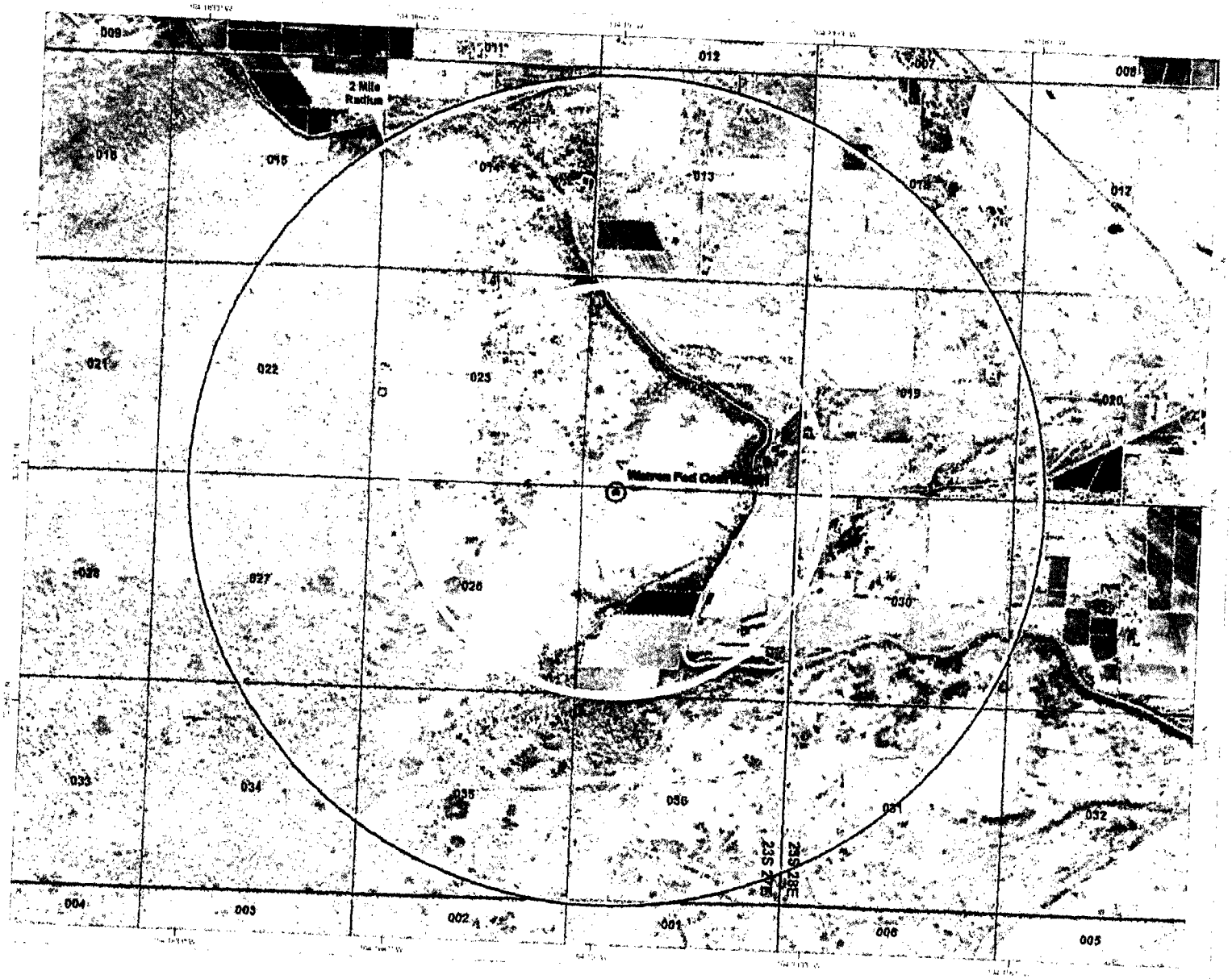
North

Prevailing Wind Out of the South

Matador Production Company

Warren Fed Com #205H
H_2S Contingency Plan:
2 Mile Radius Map

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



Surface Hole Location

1:27,000

0 0.25 0.5 1

Miles

N

NAD 1927 New Mexico State Plane East
FIPS 3001 Feet

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

Area of Detail

Database:	EDM Conroe	**Local Co-ordinate Reference:**	Well #205H
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:	#205H	**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	#205H					
Well Position	**+N/-S**	466,656.92 usft	**Northing:**	466,656.92 usft	**Latitude:**	32° 16' 58.161 N
	+E/-W	556,857.96 usft	**Easting:**	556,857.96 usft	**Longitude:**	104° 8' 57.662 W
Position Uncertainty		0.00 usft	**Wellhead Elevation:**		**Ground Level:**	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	14,184.52	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	
1,066.93	4.00	11.59	1,066.72	9.13	1.87	1.50	1.50	0.00	11.59	
2,557.14	4.00	11.59	2,553.28	111.07	22.77	0.00	0.00	0.00	0.00	
2,824.07	0.00	0.00	2,820.00	120.20	24.64	1.50	-1.50	0.00	180.00	VP - Warren 25-23
8,775.31	0.00	0.00	8,771.24	120.20	24.64	0.00	0.00	0.00	0.00	
9,575.31	80.00	168.45	9,335.49	-343.68	119.44	10.00	10.00	0.00	168.45	
9,741.98	90.00	168.45	9,350.00	-506.14	152.64	6.00	6.00	0.00	0.00	
10,123.34	90.00	179.89	9,350.00	-884.90	191.31	3.00	0.00	3.00	90.00	
14,185.37	90.00	179.89	9,350.00	-4,946.92	199.04	0.00	0.00	0.00	0.00	PBHL - Warren 25-2

Database:	EDM Conroe	**Local Co-ordinate Reference:**	Well #205H
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:	#205H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #3		

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)
4,700.00	0.00	0.00	4,695.93	120.20	24.64	-120.15	0.00	0.00	0.00
4,800.00	0.00	0.00	4,795.93	120.20	24.64	-120.15	0.00	0.00	0.00
4,900.00	0.00	0.00	4,895.93	120.20	24.64	-120.15	0.00	0.00	0.00
5,000.00	0.00	0.00	4,995.93	120.20	24.64	-120.15	0.00	0.00	0.00
5,100.00	0.00	0.00	5,095.93	120.20	24.64	-120.15	0.00	0.00	0.00
5,200.00	0.00	0.00	5,195.93	120.20	24.64	-120.15	0.00	0.00	0.00
5,300.00	0.00	0.00	5,295.93	120.20	24.64	-120.15	0.00	0.00	0.00
5,400.00	0.00	0.00	5,395.93	120.20	24.64	-120.15	0.00	0.00	0.00
5,500.00	0.00	0.00	5,495.93	120.20	24.64	-120.15	0.00	0.00	0.00
5,600.00	0.00	0.00	5,595.93	120.20	24.64	-120.15	0.00	0.00	0.00
5,700.00	0.00	0.00	5,695.93	120.20	24.64	-120.15	0.00	0.00	0.00
5,800.00	0.00	0.00	5,795.93	120.20	24.64	-120.15	0.00	0.00	0.00
5,900.00	0.00	0.00	5,895.93	120.20	24.64	-120.15	0.00	0.00	0.00
6,000.00	0.00	0.00	5,995.93	120.20	24.64	-120.15	0.00	0.00	0.00
6,100.00	0.00	0.00	6,095.93	120.20	24.64	-120.15	0.00	0.00	0.00
6,200.00	0.00	0.00	6,195.93	120.20	24.64	-120.15	0.00	0.00	0.00
6,300.00	0.00	0.00	6,295.93	120.20	24.64	-120.15	0.00	0.00	0.00
6,400.00	0.00	0.00	6,395.93	120.20	24.64	-120.15	0.00	0.00	0.00
6,500.00	0.00	0.00	6,495.93	120.20	24.64	-120.15	0.00	0.00	0.00
6,600.00	0.00	0.00	6,595.93	120.20	24.64	-120.15	0.00	0.00	0.00
6,700.00	0.00	0.00	6,695.93	120.20	24.64	-120.15	0.00	0.00	0.00
6,800.00	0.00	0.00	6,795.93	120.20	24.64	-120.15	0.00	0.00	0.00
6,900.00	0.00	0.00	6,895.93	120.20	24.64	-120.15	0.00	0.00	0.00
7,000.00	0.00	0.00	6,995.93	120.20	24.64	-120.15	0.00	0.00	0.00
7,100.00	0.00	0.00	7,095.93	120.20	24.64	-120.15	0.00	0.00	0.00
7,200.00	0.00	0.00	7,195.93	120.20	24.64	-120.15	0.00	0.00	0.00
7,300.00	0.00	0.00	7,295.93	120.20	24.64	-120.15	0.00	0.00	0.00
7,400.00	0.00	0.00	7,395.93	120.20	24.64	-120.15	0.00	0.00	0.00
7,500.00	0.00	0.00	7,495.93	120.20	24.64	-120.15	0.00	0.00	0.00
7,600.00	0.00	0.00	7,595.93	120.20	24.64	-120.15	0.00	0.00	0.00
7,700.00	0.00	0.00	7,695.93	120.20	24.64	-120.15	0.00	0.00	0.00
7,800.00	0.00	0.00	7,795.93	120.20	24.64	-120.15	0.00	0.00	0.00
7,900.00	0.00	0.00	7,895.93	120.20	24.64	-120.15	0.00	0.00	0.00
8,000.00	0.00	0.00	7,995.93	120.20	24.64	-120.15	0.00	0.00	0.00
8,100.00	0.00	0.00	8,095.93	120.20	24.64	-120.15	0.00	0.00	0.00
8,200.00	0.00	0.00	8,195.93	120.20	24.64	-120.15	0.00	0.00	0.00
8,300.00	0.00	0.00	8,295.93	120.20	24.64	-120.15	0.00	0.00	0.00
8,400.00	0.00	0.00	8,395.93	120.20	24.64	-120.15	0.00	0.00	0.00
8,500.00	0.00	0.00	8,495.93	120.20	24.64	-120.15	0.00	0.00	0.00
8,600.00	0.00	0.00	8,595.93	120.20	24.64	-120.15	0.00	0.00	0.00
8,700.00	0.00	0.00	8,695.93	120.20	24.64	-120.15	0.00	0.00	0.00
8,775.31	0.00	0.00	8,771.24	120.20	24.64	-120.15	0.00	0.00	0.00
Begin 10.00°/100' Build									
8,800.00	2.47	168.45	8,795.92	119.68	24.75	-119.63	10.00	10.00	0.00
8,850.00	7.47	168.45	8,845.72	115.44	25.62	-115.39	10.00	10.00	0.00
8,900.00	12.47	168.45	8,894.95	106.96	27.35	-106.91	10.00	10.00	0.00
8,950.00	17.47	168.45	8,943.23	94.31	29.93	-94.25	10.00	10.00	0.00
9,000.00	22.47	168.45	8,990.21	77.59	33.35	-77.52	10.00	10.00	0.00
9,050.00	27.47	168.45	9,035.53	56.92	37.58	-56.84	10.00	10.00	0.00
9,100.00	32.47	168.45	9,078.83	32.45	42.58	-32.37	10.00	10.00	0.00
9,150.00	37.47	168.45	9,119.79	4.39	48.31	-4.29	10.00	10.00	0.00
9,200.00	42.47	168.45	9,158.09	-27.07	54.74	27.18	10.00	10.00	0.00
9,250.00	47.47	168.45	9,193.46	-61.68	61.81	61.80	10.00	10.00	0.00

Database:	EDM Conroe	**Local Co-ordinate Reference:**	Well #205H
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:	#205H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #3		

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)
13,600.00	90.00	179.89	9,350.00	-4,361.55	197.93	4,361.92	0.00	0.00	0.00
13,700.00	90.00	179.89	9,350.00	-4,461.55	198.12	4,461.92	0.00	0.00	0.00
13,800.00	90.00	179.89	9,350.00	-4,561.55	198.31	4,561.92	0.00	0.00	0.00
13,900.00	90.00	179.89	9,350.00	-4,661.55	198.50	4,661.92	0.00	0.00	0.00
14,000.00	90.00	179.89	9,350.00	-4,761.55	198.69	4,761.92	0.00	0.00	0.00
14,100.00	90.00	179.89	9,350.00	-4,861.55	198.88	4,861.92	0.00	0.00	0.00
14,185.37	90.00	179.89	9,350.00	-4,946.92	199.04	4,947.29	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	0.01	2,820.00	120.20	24.64	466,777.12	556,882.60	32° 16' 59.350 N	104° 8' 57.373 W
FTP - Warren 25-23S- - plan misses target center by 123.66usft at 9429.42usft MD (9292.24 TVD, -207.56 N, 91.63 E) - Point	0.00	0.01	9,350.00	-159.92	190.04	466,497.00	557,048.00	32° 16' 56.575 N	104° 8' 55.452 W
LTP - Warren 25-23S- - plan misses target center by 0.17usft at 14095.37usft MD (9350.00 TVD, -4856.92 N, 198.87 E) - Point	0.00	0.01	9,350.00	-4,856.92	199.04	461,800.00	557,057.00	32° 16' 10.093 N	104° 8' 55.441 W
PBHL - Warren 25-23 - plan hits target center - Point	0.00	0.01	9,350.00	-4,946.92	199.04	461,710.00	557,057.00	32° 16' 9.202 N	104° 8' 55.443 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
9,575.31	9,335.49	7"		7	7-1/2

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
800.00	800.00	0.00	0.00	KOP, 1.50°/100' Build
1,066.93	1,066.72	9.13	1.87	Begin 4.00° Tangent
2,557.14	2,553.28	111.07	22.77	Begin 1.50°/100' Drop
2,824.07	2,820.00	120.20	24.64	Begin Vertical Hold
8,775.31	8,771.24	120.20	24.64	Begin 10.00°/100' Build
9,575.31	9,335.49	-343.68	119.44	Begin 6.00°/100' Build
9,741.98	9,350.00	-506.14	152.64	Begin 90.00° Lateral: Begin 3.00°/100' Turn
10,123.34	9,350.00	-884.90	191.31	Hold 179.89° Azm
14,185.37	9,350.00	-4,946.92	199.04	PBHL

MS Energy Services
Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well #205H
Project:	Eddy County, New Mexico (NAD 27)	**TVD Reference:**	WELL @ 3162.00usft (Patterson 297)
Reference Site:	Warren 25-23S-27E RB Fed COM	**MD Reference:**	WELL @ 3162.00usft (Patterson 297)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	#205H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM Conroe
Reference Design:	Design #3	**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	**Error Model:**	ISCWSA
Depth Range:	Unlimited	**Scan Method:**	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 10,000.00 u	**Error Surface:**	Pedal Curve
Warning Levels Evaluated at:	2.00 Sigma	**Casing Method:**	Not applied

Survey Tool Program **Date** 12/21/2016

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	14,184.52	Design #3 (Wellbore #1)	MWD	OWSG MWD - Standard

Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Warren 25-23S-27E RB Fed COM						
#121H - Wellbore #1 - Design #3	800.00	800.00	30.04	24.77	5.697	CC, ES
#121H - Wellbore #1 - Design #3	7,100.00	7,099.73	165.46	115.09	3.285	SF
#201H - Wellbore #1 - Design #3	800.00	800.00	60.04	54.77	11.386	CC, ES
#201H - Wellbore #1 - Design #3	14,185.37	14,195.23	660.02	483.30	3.735	SF
#203H - Wellbore #1 - Design #1	14,000.83	9,543.70	1,984.45	1,863.21	16.367	CC
#203H - Wellbore #1 - Design #1	14,100.00	9,456.80	1,984.80	1,862.57	16.238	ES
#203H - Wellbore #1 - Design #1	14,185.37	9,389.25	1,985.98	1,863.01	16.150	SF
#206H - Wellbore #1 - Design #1	13,925.76	9,634.98	1,322.65	1,202.09	10.971	CC
#206H - Wellbore #1 - Design #1	14,100.00	9,475.25	1,323.54	1,201.35	10.831	ES
#206H - Wellbore #1 - Design #1	14,185.37	9,406.48	1,325.42	1,202.54	10.787	SF
#221H - Wellbore #1 - Design #3	800.00	800.00	90.03	84.76	17.074	CC, ES
#221H - Wellbore #1 - Design #3	8,900.00	8,917.59	497.85	434.76	7.890	SF
#225H - Wellbore #1 - Design #3	800.00	800.00	29.95	24.68	5.680	CC, ES
#225H - Wellbore #1 - Design #3	9,000.00	9,003.01	162.09	98.31	2.541	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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-90.11	-0.06	-30.04	30.04				
100.00	100.00	100.00	100.00	0.13	0.13	-90.11	-0.06	-30.04	30.04	29.78	0.25	118.025	
200.00	200.00	200.00	200.00	0.49	0.49	-90.11	-0.06	-30.04	30.04	29.07	0.97	30.922	
300.00	300.00	300.00	300.00	0.84	0.84	-90.11	-0.06	-30.04	30.04	28.35	1.69	17.791	
400.00	400.00	400.00	400.00	1.20	1.20	-90.11	-0.06	-30.04	30.04	27.63	2.41	12.488	
500.00	500.00	500.00	500.00	1.56	1.56	-90.11	-0.06	-30.04	30.04	26.92	3.12	9.621	
600.00	600.00	600.00	600.00	1.92	1.92	-90.11	-0.06	-30.04	30.04	26.20	3.84	7.824	
700.00	700.00	700.00	700.00	2.28	2.28	-90.11	-0.06	-30.04	30.04	25.48	4.56	6.593	
800.00	800.00	800.00	800.00	2.64	2.64	-90.11	-0.06	-30.04	30.04	24.77	5.27	5.697	CC, ES
900.00	899.99	899.46	899.45	2.99	2.99	-90.71	0.89	-30.92	31.19	25.28	5.98	5.211	
1,000.00	999.91	998.83	998.74	3.35	3.35	-92.26	3.75	-33.54	34.64	27.95	6.69	5.175	
1,066.93	1,066.72	1,068.52	1,065.03	3.60	3.59	-93.63	6.72	-36.27	38.26	31.08	7.18	5.328	
1,100.00	1,099.70	1,101.75	1,097.95	3.71	3.71	-94.25	8.41	-37.83	40.32	32.90	7.42	5.435	

MS Energy Services
Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well #205H
Project:	Eddy County, New Mexico (NAD 27)	**TVD Reference:**	WELL @ 3162.00usft (Patterson 297)
Reference Site:	Warren 25-23S-27E RB Fed COM	**MD Reference:**	WELL @ 3162.00usft (Patterson 297)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	#205H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM Conroe
Reference Design:	Design #3	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
6,200.00	6,195.93	6,201.41	6,195.93	22.03	22.06	-90.13	119.83	-140.36	185.00	121.01	43.99	3.750	
6,300.00	6,295.93	6,301.41	6,295.93	22.38	22.41	-90.13	119.83	-140.36	185.00	120.29	44.71	3.691	
6,400.00	6,395.93	6,401.41	6,395.93	22.74	22.77	-90.13	119.83	-140.36	185.00	119.58	45.42	3.633	
6,500.00	6,495.93	6,501.41	6,495.93	23.10	23.12	-90.13	119.83	-140.36	185.00	118.87	46.13	3.576	
6,600.00	6,595.93	6,601.41	6,595.93	23.45	23.48	-90.13	119.83	-140.36	185.00	118.15	46.85	3.522	
6,700.00	6,695.93	6,701.41	6,695.93	23.81	23.84	-90.13	119.83	-140.36	185.00	117.44	47.56	3.469	
6,800.00	6,795.93	6,801.41	6,795.93	24.17	24.19	-90.13	119.83	-140.36	185.00	116.72	48.28	3.418	
6,900.00	6,895.93	6,901.41	6,895.93	24.53	24.55	-90.13	119.83	-140.36	185.00	116.01	48.99	3.368	
6,912.52	6,908.45	6,913.92	6,908.45	24.57	24.59	-90.13	119.83	-140.36	185.00	115.92	49.08	3.362	
7,000.00	6,995.93	7,001.40	6,995.92	24.88	24.90	-90.24	119.52	-140.36	185.00	115.30	49.70	3.320	
7,000.03	6,995.96	7,001.42	6,995.94	24.88	24.90	-90.24	119.52	-140.36	185.00	115.30	49.70	3.320	
7,100.00	7,095.93	7,099.73	7,093.44	25.24	25.21	-94.27	107.88	-140.33	185.46	115.09	50.36	3.285	SF
7,200.00	7,195.93	7,191.58	7,181.50	25.60	25.47	-103.00	82.11	-140.29	189.89	119.03	50.86	3.341	
7,300.00	7,295.93	7,273.48	7,255.66	25.96	25.68	-113.79	47.53	-140.22	184.62	134.03	50.59	3.649	
7,400.00	7,395.93	7,344.13	7,315.17	26.31	25.85	-123.91	9.42	-140.15	214.36	165.31	49.05	4.370	
7,500.00	7,495.93	7,404.14	7,361.63	26.67	25.97	-132.06	-28.42	-140.08	259.34	212.73	46.61	5.564	
7,600.00	7,595.93	7,450.00	7,394.36	27.03	26.08	-137.66	-60.53	-140.02	316.88	273.22	43.66	7.258	
7,700.00	7,695.93	7,500.00	7,426.98	27.39	26.22	-143.32	-98.40	-139.95	383.68	341.91	41.77	9.186	
7,800.00	7,795.93	7,532.69	7,446.43	27.74	26.32	-148.10	-124.63	-139.90	457.31	417.77	39.54	11.567	
7,900.00	7,895.93	7,563.04	7,463.21	28.10	26.42	-148.66	-149.95	-139.86	535.99	498.13	37.86	14.156	
8,000.00	7,995.93	7,588.98	7,476.44	28.46	26.50	-150.65	-172.26	-139.82	618.43	581.93	36.50	16.945	
8,100.00	8,095.93	7,611.33	7,487.01	28.82	26.57	-152.22	-191.95	-139.78	703.74	668.33	35.41	19.874	
8,200.00	8,195.93	7,630.73	7,495.56	29.17	26.64	-153.49	-209.36	-139.75	791.30	756.76	34.54	22.909	
8,300.00	8,295.93	7,650.00	7,503.46	29.53	26.71	-154.66	-226.94	-139.71	880.64	846.71	33.93	25.957	
8,400.00	8,395.93	7,650.00	7,503.46	29.89	26.71	-154.66	-226.94	-139.71	971.60	938.63	32.97	29.467	
8,500.00	8,495.93	7,675.82	7,513.12	30.25	26.80	-156.12	-250.88	-139.67	1,063.30	1,030.41	32.90	32.323	
8,600.00	8,595.93	7,700.00	7,521.17	30.60	26.89	-157.36	-273.68	-139.63	1,156.38	1,123.53	32.86	35.194	
8,700.00	8,695.93	7,700.00	7,521.17	30.96	26.89	-157.36	-273.68	-139.63	1,249.87	1,217.49	32.38	38.595	
8,775.31	8,771.24	7,700.00	7,521.17	31.23	26.89	-157.36	-273.68	-139.63	1,320.91	1,288.79	32.12	41.128	
8,800.00	8,795.92	7,700.00	7,521.17	31.31	26.89	-157.32	-273.68	-139.63	1,344.15	1,312.11	32.03	41.959	
8,850.00	8,845.72	7,700.00	7,521.17	31.47	26.89	-156.99	-273.68	-139.63	1,390.37	1,358.53	31.85	43.661	
8,900.00	8,894.95	7,719.81	7,527.05	31.62	26.97	-157.32	-292.60	-139.59	1,434.80	1,402.84	31.96	44.895	
8,950.00	8,943.23	7,727.02	7,529.03	31.77	27.00	-156.71	-299.53	-139.58	1,477.78	1,445.95	31.83	46.430	
9,000.00	8,990.21	7,750.00	7,534.74	31.91	27.09	-156.59	-321.79	-139.54	1,519.14	1,487.22	31.92	47.600	
9,050.00	9,035.53	7,750.00	7,534.74	32.05	27.09	-154.93	-321.79	-139.54	1,557.93	1,526.29	31.63	49.250	
9,100.00	9,078.83	7,750.00	7,534.74	32.18	27.09	-152.79	-321.79	-139.54	1,594.63	1,563.27	31.36	50.853	
9,150.00	9,119.79	7,750.00	7,534.74	32.31	27.09	-150.06	-321.79	-139.54	1,629.12	1,598.03	31.10	52.389	
9,200.00	9,158.09	7,772.08	7,539.39	32.44	27.18	-148.45	-343.37	-139.50	1,660.72	1,629.61	31.10	53.392	
9,250.00	9,193.46	7,782.45	7,541.28	32.58	27.22	-145.41	-353.57	-139.48	1,689.79	1,658.82	30.98	54.552	
9,300.00	9,225.61	7,800.00	7,544.07	32.72	27.30	-142.44	-370.89	-139.45	1,716.12	1,685.19	30.93	55.484	
9,350.00	9,254.30	7,800.00	7,544.07	32.86	27.30	-138.85	-370.89	-139.45	1,739.45	1,708.71	30.74	56.594	
9,400.00	9,279.32	7,800.00	7,544.07	33.01	27.30	-129.96	-370.89	-139.45	1,760.08	1,729.49	30.59	57.541	
9,450.00	9,300.46	7,826.81	7,547.29	33.17	27.42	-126.14	-397.50	-139.40	1,777.11	1,746.44	30.67	57.936	
9,500.00	9,317.59	7,850.00	7,549.08	33.34	27.52	-121.32	-420.62	-139.35	1,791.45	1,760.71	30.75	58.264	
9,550.00	9,330.55	7,850.00	7,549.08	33.52	27.52	-111.75	-420.62	-139.35	1,802.31	1,771.60	30.71	58.679	
9,575.31	9,335.49	7,850.00	7,549.08	33.62	27.52	-106.56	-420.62	-139.35	1,806.70	1,775.98	30.72	58.807	
9,600.00	9,339.47	7,861.89	7,549.63	33.71	27.57	-103.84	-432.50	-139.33	1,810.32	1,779.52	30.80	58.780	
9,650.00	9,345.57	7,882.52	7,550.00	33.91	27.67	-97.70	-453.13	-139.29	1,816.67	1,785.71	30.96	58.682	
9,700.00	9,349.08	7,905.06	7,550.00	34.13	27.78	-90.11	-465.55	-139.27	1,821.26	1,790.13	31.15	58.465	
9,741.98	9,350.00	7,936.07	7,550.00	34.32	27.94	-90.11	-506.68	-139.20	1,823.51	1,792.12	31.38	58.104	
9,800.00	9,350.00	8,006.89	7,550.00	34.61	28.32	-90.11	-563.71	-139.09	1,825.24	1,793.45	31.79	57.417	
9,900.00	9,350.00	8,107.93	7,550.00	35.15	28.94	-90.11	-662.68	-138.91	1,827.66	1,795.19	32.47	56.283	

MS Energy Services
Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well #205H
Project:	Eddy County, New Mexico (NAD 27)	**TVD Reference:**	WELL @ 3162.00usft (Patterson 297)
Reference Site:	Warren 25-23S-27E RB Fed COM	**MD Reference:**	WELL @ 3162.00usft (Patterson 297)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	#205H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM Conroe
Reference Design:	Design #3	**Offset TVD Reference:**	Offset Datum

Offset Design Warren 25-23S-27E RB Fed COM - #201H - Wellbore #1 - Design #3 — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-90.10	-0.10	-60.04	60.04				
100.00	100.00	100.00	100.00	0.13	0.13	-90.10	-0.10	-60.04	60.04	59.79	0.25	235.904	
200.00	200.00	200.00	200.00	0.49	0.49	-90.10	-0.10	-60.04	60.04	59.07	0.97	61.805	
300.00	300.00	300.00	300.00	0.84	0.84	-90.10	-0.10	-60.04	60.04	58.35	1.69	35.561	
400.00	400.00	400.00	400.00	1.20	1.20	-90.10	-0.10	-60.04	60.04	57.64	2.41	24.962	
500.00	500.00	500.00	500.00	1.56	1.56	-90.10	-0.10	-60.04	60.04	56.92	3.12	19.230	
600.00	600.00	600.00	600.00	1.92	1.92	-90.10	-0.10	-60.04	60.04	56.20	3.84	15.639	
700.00	700.00	700.00	700.00	2.28	2.28	-90.10	-0.10	-60.04	60.04	55.48	4.56	13.178	
800.00	800.00	800.00	800.00	2.64	2.64	-90.10	-0.10	-60.04	60.04	54.77	5.27	11.386	CC, ES
900.00	899.99	898.58	898.57	2.99	2.99	-90.77	0.45	-61.18	61.47	55.49	5.98	10.281	
1,000.00	999.91	997.02	996.93	3.35	3.33	-92.62	2.12	-64.61	65.79	59.12	6.68	9.851	
1,066.93	1,066.72	1,062.75	1,062.54	3.60	3.57	-94.31	3.85	-68.16	70.36	63.21	7.15	9.844	
1,100.00	1,099.70	1,104.37	1,095.34	3.71	3.71	-95.15	4.86	-70.22	72.98	65.57	7.41	9.845	
1,200.00	1,199.46	1,204.74	1,194.73	4.07	4.07	-97.34	7.90	-76.47	81.01	72.88	8.13	9.965	
1,300.00	1,299.21	1,294.90	1,294.12	4.44	4.40	-99.13	10.95	-82.72	89.13	80.32	8.81	10.114	
1,400.00	1,398.97	1,405.47	1,393.52	4.80	4.80	-100.63	13.99	-88.96	97.33	87.75	9.57	10.168	
1,500.00	1,498.73	1,505.84	1,492.91	5.17	5.17	-101.89	17.04	-95.21	105.58	95.28	10.30	10.254	
1,600.00	1,598.48	1,606.20	1,592.30	5.53	5.54	-102.97	20.08	-101.45	113.87	102.85	11.02	10.331	
1,700.00	1,698.24	1,706.57	1,691.69	5.90	5.91	-103.90	23.13	-107.71	122.20	110.45	11.75	10.400	
1,800.00	1,797.99	1,806.93	1,791.08	6.27	6.28	-104.71	26.17	-113.95	130.56	116.08	12.48	10.462	
1,900.00	1,897.75	1,907.30	1,890.47	6.64	6.65	-105.42	29.22	-120.20	138.94	125.73	13.21	10.519	
2,000.00	1,997.51	2,007.67	1,989.86	7.01	7.02	-106.05	32.26	-126.45	147.34	133.40	13.94	10.570	
2,100.00	2,097.26	2,091.97	2,089.25	7.38	7.33	-106.62	35.31	-132.70	155.76	141.15	14.61	10.659	
2,200.00	2,197.02	2,208.40	2,188.65	7.75	7.76	-107.13	38.35	-138.94	164.19	148.79	15.40	10.659	
2,300.00	2,296.77	2,308.76	2,288.04	8.12	8.13	-107.58	41.40	-145.19	172.63	156.50	16.14	10.699	
2,400.00	2,396.53	2,409.13	2,387.43	8.49	8.51	-108.00	44.44	-151.44	181.08	164.21	16.87	10.735	
2,500.00	2,496.28	2,490.51	2,486.82	8.86	8.81	-108.37	47.49	-157.69	189.54	172.01	17.53	10.811	
2,557.14	2,553.28	2,545.77	2,541.93	9.07	9.02	-108.54	49.30	-161.40	194.58	176.64	17.94	10.847	
2,600.00	2,596.05	2,586.93	2,582.93	9.23	9.17	-108.50	50.87	-164.62	198.62	180.38	18.24	10.889	
2,700.00	2,695.95	2,682.71	2,678.16	9.59	9.54	-107.65	55.27	-173.65	208.42	189.49	18.93	11.007	
2,800.00	2,795.93	2,778.45	2,773.11	9.95	9.91	-105.84	60.71	-184.81	218.90	199.28	19.62	11.157	
2,824.07	2,820.00	2,802.29	2,796.72	10.04	10.01	-105.28	62.16	-187.79	221.45	201.66	19.79	11.189	
2,900.00	2,895.93	2,877.48	2,871.18	10.30	10.31	-103.55	66.75	-197.21	229.54	209.20	20.33	11.288	
3,000.00	2,995.93	2,976.51	2,969.24	10.65	10.70	-101.44	72.79	-209.60	240.48	219.43	21.05	11.425	
3,100.00	3,095.93	3,075.53	3,067.30	11.01	11.10	-99.52	78.83	-222.00	251.72	229.96	21.76	11.566	
3,200.00	3,195.93	3,174.56	3,165.36	11.36	11.50	-97.77	84.87	-234.39	263.21	240.74	22.48	11.710	
3,300.00	3,295.93	3,273.58	3,263.42	11.71	11.90	-96.16	90.92	-246.79	274.94	251.74	23.19	11.855	
3,400.00	3,395.93	3,372.61	3,361.48	12.07	12.30	-94.68	96.96	-259.18	286.85	262.95	23.91	11.999	
3,500.00	3,495.93	3,471.63	3,459.54	12.42	12.70	-93.32	103.00	-271.58	298.94	274.32	24.62	12.142	
3,600.00	3,595.93	3,570.12	3,565.18	12.77	13.12	-92.10	108.88	-283.65	310.03	284.63	25.40	12.204	
3,700.00	3,695.93	3,685.48	3,672.01	13.13	13.54	-91.21	113.50	-293.13	318.75	292.57	26.18	12.175	
3,800.00	3,795.93	3,793.35	3,779.61	13.48	13.94	-90.60	116.82	-299.94	325.01	298.07	26.94	12.064	
3,900.00	3,895.93	3,901.56	3,887.72	13.84	14.34	-90.24	118.81	-304.03	328.78	301.09	27.69	11.875	
4,000.00	3,995.93	4,009.94	3,996.09	14.19	14.71	-90.13	119.46	-305.36	330.00	301.59	28.41	11.615	
4,013.04	4,008.97	4,024.07	4,010.22	14.24	14.76	-90.13	119.45	-305.33	329.97	301.47	28.50	11.576	
4,100.00	4,095.93	4,109.78	4,095.93	14.55	15.05	-90.13	119.46	-305.36	330.00	300.89	29.11	11.335	
4,200.00	4,195.93	4,209.78	4,195.93	14.90	15.39	-90.13	119.46	-305.36	330.00	300.19	29.81	11.069	
4,300.00	4,295.93	4,309.78	4,295.93	15.26	15.72	-90.13	119.46	-305.36	330.00	299.48	30.52	10.814	
4,400.00	4,395.93	4,409.78	4,395.93	15.61	16.07	-90.13	119.46	-305.36	330.00	298.78	31.22	10.570	
4,500.00	4,495.93	4,509.78	4,495.93	15.97	16.41	-90.13	119.46	-305.36	330.00	298.08	31.92	10.337	
4,600.00	4,595.93	4,609.78	4,595.93	16.32	16.75	-90.13	119.46	-305.36	330.00	297.37	32.63	10.114	
4,700.00	4,695.93	4,709.78	4,695.93	16.68	17.09	-90.13	119.46	-305.36	330.00	296.67	33.33	9.900	

MS Energy Services
Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well #205H
Project:	Eddy County, New Mexico (NAD 27)	**TVD Reference:**	WELL @ 3162.00usft (Patterson 297)
Reference Site:	Warren 25-23S-27E RB Fed COM	**MD Reference:**	WELL @ 3162.00usft (Patterson 297)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	#205H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM Conroe
Reference Design:	Design #3	**Offset TVD Reference:**	Offset Datum

Offset Design Warren 25-23S-27E RB Fed COM - #201H - Wellbore #1 - Design #3 — Offset Site Error: 0.00 usft

Survey Program: 0-MWD — Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,350.00	9,254.30	9,292.45	9,214.84	32.86	32.74	-82.94	-86.74	-346.86	429.58	364.38	65.20	6.589	
9,400.00	9,279.32	9,335.65	9,240.90	33.01	32.85	-82.08	-120.50	-353.65	445.68	380.40	65.48	6.809	
9,450.00	9,300.46	9,378.82	9,264.27	33.17	32.97	-81.28	-156.08	-360.82	462.97	397.19	65.78	7.038	
9,500.00	9,317.59	9,422.05	9,284.87	33.34	33.09	-80.55	-193.33	-368.31	480.74	414.65	66.09	7.274	
9,550.00	9,330.55	9,465.42	9,302.60	33.52	33.23	-79.92	-232.11	-376.12	499.07	432.66	66.41	7.515	
9,575.31	9,335.49	9,487.45	9,310.45	33.62	33.30	-79.64	-252.30	-380.18	508.53	441.95	66.58	7.638	
9,600.00	9,339.47	9,509.04	9,317.36	33.71	33.38	-79.40	-272.35	-384.22	517.84	451.10	66.74	7.759	
9,650.00	9,345.57	9,553.19	9,329.06	33.91	33.54	-79.03	-314.06	-392.61	536.92	469.84	67.08	8.004	
9,700.00	9,349.08	9,597.95	9,337.64	34.13	33.70	-78.81	-357.12	-401.28	556.21	488.78	67.43	8.249	
9,741.98	9,350.00	9,635.97	9,342.99	34.32	33.85	-78.71	-394.03	-408.71	572.48	504.74	67.74	8.452	
9,800.00	9,350.00	9,689.26	9,347.96	34.61	34.07	-78.63	-446.04	-419.17	594.23	526.04	68.19	8.715	
9,900.00	9,350.00	9,798.77	9,350.00	35.15	34.56	-80.03	-553.45	-440.20	627.53	558.37	69.15	9.074	
10,000.00	9,350.00	9,945.15	9,350.00	35.75	35.33	-84.42	-698.45	-460.00	650.18	579.67	70.51	9.221	
10,100.00	9,350.00	10,096.65	9,350.00	36.40	36.24	-88.97	-849.66	-468.73	659.97	587.94	72.03	9.163	
10,123.34	9,350.00	10,132.32	9,350.00	36.56	36.47	-90.04	-885.33	-469.04	660.36	587.96	72.40	9.121	
10,200.00	9,350.00	10,209.86	9,350.00	37.10	37.00	-90.11	-962.87	-468.89	660.35	586.88	73.48	8.987	
10,300.00	9,350.00	10,309.86	9,350.00	37.86	37.73	-90.11	-1,062.87	-468.69	660.34	585.37	74.98	8.807	
10,400.00	9,350.00	10,409.86	9,350.00	38.68	38.51	-90.11	-1,162.87	-468.49	660.34	583.74	76.59	8.622	
10,500.00	9,350.00	10,509.86	9,350.00	39.54	39.36	-90.11	-1,262.87	-468.30	660.33	582.01	78.31	8.432	
10,600.00	9,350.00	10,609.86	9,350.00	40.46	40.25	-90.11	-1,362.87	-468.10	660.32	580.18	80.14	8.240	
10,700.00	9,350.00	10,709.86	9,350.00	41.42	41.19	-90.11	-1,462.87	-467.90	660.31	578.26	82.05	8.048	
10,800.00	9,350.00	10,809.86	9,350.00	42.43	42.17	-90.11	-1,562.87	-467.70	660.30	576.25	84.05	7.856	
10,900.00	9,350.00	10,909.86	9,350.00	43.48	43.19	-90.11	-1,662.87	-467.50	660.29	574.16	86.14	7.666	
11,000.00	9,350.00	11,009.86	9,350.00	44.56	44.25	-90.11	-1,762.87	-467.30	660.29	571.99	88.30	7.478	
11,100.00	9,350.00	11,109.86	9,350.00	45.68	45.35	-90.11	-1,862.87	-467.10	660.28	569.75	90.52	7.294	
11,200.00	9,350.00	11,209.86	9,350.00	46.83	46.48	-90.11	-1,962.87	-466.91	660.27	567.45	92.82	7.114	
11,300.00	9,350.00	11,309.86	9,350.00	48.00	47.65	-90.11	-2,062.87	-466.71	660.26	565.09	95.17	6.938	
11,400.00	9,350.00	11,409.86	9,350.00	49.21	48.84	-90.11	-2,162.87	-466.51	660.25	562.67	97.58	6.766	
11,500.00	9,350.00	11,509.86	9,350.00	50.44	50.05	-90.11	-2,262.87	-466.31	660.24	560.20	100.04	6.600	
11,600.00	9,350.00	11,609.86	9,350.00	51.70	51.29	-90.11	-2,362.87	-466.11	660.24	557.68	102.55	6.438	
11,700.00	9,350.00	11,709.86	9,350.00	52.98	52.56	-90.11	-2,462.87	-465.91	660.23	555.12	105.11	6.282	
11,800.00	9,350.00	11,809.86	9,350.00	54.28	53.84	-90.11	-2,562.87	-465.71	660.22	552.52	107.70	6.130	
11,900.00	9,350.00	11,909.86	9,350.00	55.59	55.15	-90.11	-2,662.87	-465.51	660.21	549.88	110.33	5.984	
12,000.00	9,350.00	12,009.86	9,350.00	56.93	56.47	-90.11	-2,762.87	-465.32	660.20	547.20	113.00	5.842	
12,100.00	9,350.00	12,109.86	9,350.00	58.28	57.82	-90.11	-2,862.87	-465.12	660.19	544.49	115.71	5.706	
12,200.00	9,350.00	12,209.86	9,350.00	59.65	59.17	-90.11	-2,962.87	-464.92	660.18	541.74	118.44	5.574	
12,300.00	9,350.00	12,309.86	9,350.00	61.03	60.54	-90.11	-3,062.87	-464.72	660.18	538.97	121.20	5.447	
12,400.00	9,350.00	12,409.86	9,350.00	62.43	61.93	-90.11	-3,162.87	-464.52	660.17	536.18	123.99	5.324	
12,500.00	9,350.00	12,509.86	9,350.00	63.83	63.33	-90.11	-3,262.87	-464.32	660.16	533.35	126.81	5.206	
12,600.00	9,350.00	12,609.86	9,350.00	65.25	64.74	-90.11	-3,362.87	-464.12	660.15	530.50	129.65	5.092	
12,700.00	9,350.00	12,709.86	9,350.00	66.68	66.16	-90.11	-3,462.87	-463.93	660.14	527.63	132.51	4.982	
12,800.00	9,350.00	12,809.86	9,350.00	68.12	67.60	-90.11	-3,562.87	-463.73	660.13	524.74	135.39	4.876	
12,900.00	9,350.00	12,909.86	9,350.00	69.57	69.04	-90.11	-3,662.87	-463.53	660.13	521.84	138.29	4.773	
13,000.00	9,350.00	13,009.86	9,350.00	71.03	70.49	-90.11	-3,762.87	-463.33	660.12	518.91	141.21	4.675	
13,100.00	9,350.00	13,109.86	9,350.00	72.50	71.96	-90.11	-3,862.86	-463.13	660.11	515.96	144.15	4.579	
13,200.00	9,350.00	13,209.86	9,350.00	73.98	73.43	-90.11	-3,962.86	-462.93	660.10	513.00	147.10	4.487	
13,300.00	9,350.00	13,309.86	9,350.00	75.46	74.90	-90.11	-4,062.86	-462.73	660.09	510.03	150.07	4.399	
13,400.00	9,350.00	13,409.86	9,350.00	76.95	76.39	-90.11	-4,162.86	-462.54	660.08	507.04	153.05	4.313	
13,500.00	9,350.00	13,509.86	9,350.00	78.45	77.88	-90.11	-4,262.86	-462.34	660.08	504.03	156.04	4.230	
13,600.00	9,350.00	13,609.86	9,350.00	79.95	79.38	-90.11	-4,362.86	-462.14	660.07	501.02	159.05	4.150	
13,700.00	9,350.00	13,709.86	9,350.00	81.46	80.88	-90.11	-4,462.86	-461.94	660.06	497.99	162.07	4.073	
13,800.00	9,350.00	13,809.86	9,350.00	82.98	82.39	-90.11	-4,562.86	-461.74	660.05	494.95	165.10	3.998	

MS Energy Services
Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well #205H
Project:	Eddy County, New Mexico (NAD 27)	**TVD Reference:**	WELL @ 3162.00usft (Patterson 297)
Reference Site:	Warren 25-23S-27E RB Fed COM	**MD Reference:**	WELL @ 3162.00usft (Patterson 297)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	#205H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM Conroe
Reference Design:	Design #3	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	160.75	-5,561.82	1,942.75	5,891.37				
100.00	100.00	88.00	88.00	0.13	0.11	160.75	-5,561.82	1,942.75	5,891.36	5,891.12	0.24	N/A	
200.00	200.00	188.00	188.00	0.49	0.44	160.75	-5,561.82	1,942.75	5,891.36	5,890.43	0.93	6,345.427	
300.00	300.00	288.00	288.00	0.84	0.80	160.75	-5,561.82	1,942.75	5,891.36	5,889.71	1.65	3,580.536	
400.00	400.00	388.00	388.00	1.20	1.16	160.75	-5,561.82	1,942.75	5,891.36	5,889.00	2.36	2,493.879	
500.00	500.00	488.00	488.00	1.56	1.52	160.75	-5,561.82	1,942.75	5,891.36	5,888.28	3.08	1,913.232	
600.00	600.00	588.00	588.00	1.92	1.88	160.75	-5,561.82	1,942.75	5,891.36	5,887.56	3.80	1,551.904	
700.00	700.00	688.00	688.00	2.28	2.24	160.75	-5,561.82	1,942.75	5,891.36	5,886.85	4.51	1,305.374	
800.00	800.00	788.00	788.00	2.64	2.59	160.75	-5,561.82	1,942.75	5,891.36	5,886.13	5.23	1,126.433	
900.00	899.99	1,257.46	1,256.41	2.39	4.28	160.54	-5,539.47	1,957.78	5,887.92	5,880.65	7.27	810.152	
1,000.00	999.91	1,357.21	1,355.62	3.35	4.65	160.48	-5,530.82	1,963.60	5,885.02	5,877.03	7.99	736.487	
1,066.93	1,066.72	1,424.05	1,422.09	3.60	4.90	160.45	-5,525.02	1,967.50	5,884.35	5,875.87	8.48	694.127	
1,100.00	1,099.70	1,457.07	1,454.93	3.71	5.02	160.43	-5,522.16	1,969.42	5,884.26	5,875.54	8.72	674.921	
1,200.00	1,199.46	1,556.96	1,554.27	4.07	5.40	160.38	-5,513.49	1,975.25	5,884.00	5,874.55	9.45	622.671	
1,300.00	1,299.21	1,656.84	1,653.61	4.44	5.78	160.34	-5,504.83	1,981.08	5,883.74	5,873.56	10.18	577.791	
1,400.00	1,398.97	1,756.73	1,752.95	4.80	6.16	160.29	-5,496.17	1,986.90	5,883.49	5,872.57	10.92	538.847	
1,500.00	1,498.73	1,856.61	1,852.28	5.17	6.54	160.24	-5,487.50	1,992.73	5,883.24	5,871.59	11.66	504.750	
1,600.00	1,598.48	1,956.50	1,951.62	5.53	6.92	160.20	-5,478.84	1,998.56	5,883.00	5,870.60	12.39	474.558	
1,700.00	1,698.24	2,056.38	2,050.96	5.90	7.30	160.15	-5,470.18	2,004.38	5,882.76	5,869.62	13.13	447.912	
1,800.00	1,797.99	2,156.27	2,150.30	6.27	7.69	160.10	-5,461.51	2,010.21	5,882.52	5,868.65	13.87	423.989	
1,900.00	1,897.75	2,256.15	2,249.63	6.64	8.07	160.06	-5,452.85	2,016.04	5,882.29	5,867.67	14.62	402.468	
2,000.00	1,997.51	2,356.03	2,348.97	7.01	8.46	160.01	-5,444.18	2,021.86	5,882.06	5,866.70	15.36	383.008	
2,100.00	2,097.26	2,455.92	2,448.31	7.38	8.84	159.96	-5,435.52	2,027.69	5,881.84	5,865.73	16.10	365.327	
2,200.00	2,197.02	2,555.80	2,547.65	7.75	9.23	159.92	-5,426.86	2,033.51	5,881.61	5,864.77	16.84	349.194	
2,300.00	2,296.77	2,655.69	2,646.98	8.12	9.62	159.87	-5,418.19	2,039.34	5,881.40	5,863.81	17.59	334.416	
2,400.00	2,396.53	3,002.90	2,985.04	8.49	11.02	159.53	-5,379.17	2,065.58	5,879.42	5,860.13	19.29	304.866	
2,500.00	2,496.28	3,103.54	3,082.89	8.86	11.44	159.43	-5,364.86	2,075.21	5,875.13	5,855.07	20.06	292.899	
2,557.14	2,553.28	3,153.23	3,138.80	9.07	11.65	159.37	-5,356.68	2,080.71	5,872.68	5,852.21	20.47	286.901	
2,600.00	2,596.06	3,195.80	3,180.72	9.23	11.83	159.33	-5,350.54	2,084.84	5,870.65	5,849.85	20.80	282.254	
2,700.00	2,695.95	3,305.10	3,278.32	9.59	12.30	159.22	-5,336.26	2,094.44	5,864.34	5,842.73	21.61	271.392	
2,800.00	2,795.83	3,393.68	3,375.59	9.95	12.67	159.09	-5,322.03	2,104.01	5,856.85	5,833.52	22.33	262.233	
2,824.07	2,820.00	3,417.39	3,398.95	10.04	12.78	159.06	-5,318.61	2,106.31	5,853.48	5,830.97	22.51	259.987	
2,900.00	2,895.93	3,492.17	3,472.59	10.30	13.10	158.95	-5,307.84	2,113.56	5,845.83	5,822.74	23.09	253.153	
3,000.00	2,995.93	3,609.35	3,569.57	10.65	13.60	158.81	-5,293.65	2,123.10	5,835.77	5,811.84	23.93	243.858	
3,100.00	3,095.93	3,689.13	3,666.56	11.01	13.94	158.67	-5,279.46	2,132.64	5,825.76	5,801.14	24.62	236.657	
3,200.00	3,195.93	3,787.61	3,763.54	11.36	14.37	158.54	-5,265.27	2,142.19	5,815.77	5,790.39	25.38	229.137	
3,300.00	3,295.93	3,874.65	3,849.26	11.71	14.74	158.41	-5,252.74	2,150.61	5,805.85	5,779.75	26.10	222.438	
3,400.00	3,395.93	3,927.48	3,901.39	12.07	14.97	158.34	-5,245.58	2,155.43	5,796.52	5,769.83	26.68	217.244	
3,500.00	3,495.93	3,980.55	3,953.86	12.42	15.19	158.28	-5,238.98	2,159.86	5,787.99	5,760.73	27.26	212.315	
3,600.00	3,595.93	4,033.84	4,006.65	12.77	15.41	158.22	-5,232.97	2,163.91	5,780.28	5,752.44	27.84	207.651	
3,700.00	3,695.93	4,100.00	4,072.33	13.13	15.68	158.15	-5,226.36	2,168.35	5,773.39	5,744.93	28.46	202.876	
3,800.00	3,795.93	4,140.97	4,113.06	13.48	15.84	158.12	-5,222.74	2,170.79	5,767.26	5,738.28	28.98	199.038	
3,900.00	3,895.93	4,200.00	4,171.83	13.84	16.06	158.07	-5,218.16	2,173.87	5,761.96	5,732.40	29.56	194.923	
4,000.00	3,995.93	4,248.71	4,220.39	14.19	16.25	158.04	-5,214.95	2,176.03	5,757.45	5,727.36	30.10	191.291	
4,100.00	4,095.93	14,238.69	9,320.00	14.55	95.78	94.88	-64.98	2,193.76	5,670.61	5,609.25	61.36	92.411	
4,200.00	4,195.93	14,238.69	9,320.00	14.90	95.78	94.88	-64.98	2,193.76	5,578.41	5,516.47	61.94	90.066	
4,300.00	4,295.93	14,238.69	9,320.00	15.26	95.78	94.88	-64.98	2,193.76	5,486.47	5,423.94	62.53	87.740	
4,400.00	4,395.93	14,238.69	9,320.00	15.61	95.78	94.88	-64.98	2,193.76	5,394.83	5,331.68	63.15	85.434	
4,500.00	4,495.93	14,238.69	9,320.00	15.97	95.78	94.88	-64.98	2,193.76	5,303.49	5,239.70	63.78	83.147	
4,600.00	4,595.93	14,238.69	9,320.00	16.32	95.78	94.88	-64.98	2,193.76	5,212.46	5,148.02	64.44	80.883	
4,700.00	4,695.93	14,238.69	9,320.00	16.68	95.78	94.88	-64.98	2,193.76	5,121.77	5,056.64	65.13	78.640	
4,800.00	4,795.93	14,238.69	9,320.00	17.03	95.78	94.88	-64.98	2,193.76	5,031.43	4,965.59	65.84	76.419	

MS Energy Services
Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well #205H
Project:	Eddy County, New Mexico (NAD 27)	**TVD Reference:**	WELL @ 3162.00usft (Patterson 297)
Reference Site:	Warren 25-23S-27E RB Fed COM	**MD Reference:**	WELL @ 3162.00usft (Patterson 297)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	#205H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM Conroe
Reference Design:	Design #3	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,400.00	9,279.32	14,117.36	9,320.00	33.01	93.89	90.13	-186.61	2,193.48	2,107.81	1,981.06	126.74	16.630	
9,450.00	9,300.46	14,072.71	9,320.00	33.17	93.21	90.13	-230.96	2,193.37	2,098.21	1,971.97	126.24	16.621	
9,500.00	9,317.59	14,026.73	9,320.00	33.34	92.50	90.13	-276.95	2,193.27	2,088.52	1,962.80	125.71	16.614	
9,550.00	9,330.55	13,979.45	9,320.00	33.52	91.77	90.13	-324.22	2,193.16	2,078.69	1,953.53	125.16	16.608	
9,575.31	9,335.49	13,955.14	9,320.00	33.62	91.39	90.13	-348.53	2,193.10	2,073.67	1,948.79	124.88	16.606	
9,600.00	9,339.47	13,931.28	9,320.00	33.71	91.02	90.13	-372.39	2,193.04	2,068.74	1,944.14	124.60	16.603	
9,650.00	9,345.57	13,882.69	9,320.00	33.91	90.25	90.13	-420.98	2,192.93	2,058.72	1,934.68	124.05	16.596	
9,700.00	9,349.08	13,833.85	9,320.00	34.13	89.53	90.13	-469.82	2,192.81	2,048.65	1,925.15	123.50	16.588	
9,741.98	9,350.00	13,807.24	9,320.00	34.32	89.12	90.13	-510.91	2,192.72	2,040.16	1,916.89	123.28	16.550	
9,800.00	9,350.00	13,735.77	9,320.00	34.61	88.02	90.13	-567.90	2,192.59	2,029.28	1,906.83	122.45	16.572	
9,900.00	9,350.00	13,636.86	9,320.00	35.15	86.51	90.13	-666.81	2,192.35	2,014.59	1,893.14	121.46	16.587	
10,000.00	9,350.00	13,537.33	9,320.00	35.75	84.99	90.13	-766.34	2,192.12	2,005.11	1,884.58	120.53	16.636	
10,100.00	9,350.00	13,437.43	9,320.00	36.40	83.47	90.13	-866.24	2,191.89	2,000.85	1,881.19	119.66	16.722	
10,123.34	9,350.00	13,414.09	9,320.00	36.56	83.12	90.13	-889.58	2,191.83	2,000.61	1,881.15	119.46	16.747	
10,200.00	9,350.00	13,337.43	9,320.00	37.10	81.96	90.13	-966.24	2,191.65	2,000.28	1,881.44	118.84	16.832	
10,300.00	9,350.00	13,237.43	9,320.00	37.86	80.45	90.13	-1,066.24	2,191.42	1,999.86	1,881.76	118.09	16.935	
10,400.00	9,350.00	13,137.43	9,320.00	38.68	78.94	90.13	-1,166.24	2,191.19	1,999.43	1,882.02	117.41	17.030	
10,500.00	9,350.00	13,037.43	9,320.00	39.54	77.45	90.13	-1,266.24	2,190.95	1,999.01	1,882.23	116.78	17.118	
10,600.00	9,350.00	12,937.44	9,320.00	40.46	75.96	90.13	-1,366.23	2,190.72	1,998.58	1,882.37	116.21	17.198	
10,700.00	9,350.00	12,837.44	9,320.00	41.42	74.47	90.13	-1,466.23	2,190.48	1,998.16	1,882.47	115.69	17.272	
10,800.00	9,350.00	12,737.44	9,320.00	42.43	73.00	90.13	-1,566.23	2,190.25	1,997.73	1,882.51	115.22	17.338	
10,900.00	9,350.00	12,637.44	9,320.00	43.48	71.53	90.13	-1,666.23	2,190.02	1,997.31	1,882.51	114.80	17.398	
11,000.00	9,350.00	12,537.44	9,320.00	44.56	70.07	90.13	-1,766.23	2,189.78	1,996.89	1,882.46	114.43	17.451	
11,100.00	9,350.00	12,437.44	9,320.00	45.68	68.62	90.13	-1,866.23	2,189.55	1,996.46	1,882.37	114.09	17.498	
11,200.00	9,350.00	12,337.44	9,320.00	46.83	67.18	90.13	-1,966.23	2,189.31	1,996.04	1,882.24	113.80	17.539	
11,300.00	9,350.00	12,237.44	9,320.00	48.00	65.75	90.13	-2,066.23	2,189.08	1,995.61	1,882.06	113.55	17.575	
11,400.00	9,350.00	12,137.44	9,320.00	49.21	64.32	90.13	-2,166.23	2,188.85	1,995.19	1,881.85	113.34	17.604	
11,500.00	9,350.00	12,037.44	9,320.00	50.44	62.92	90.13	-2,266.22	2,188.61	1,994.77	1,881.60	113.16	17.627	
11,600.00	9,350.00	11,937.44	9,320.00	51.70	61.52	90.13	-2,366.22	2,188.38	1,994.34	1,881.32	113.02	17.646	
11,700.00	9,350.00	11,837.45	9,320.00	52.98	60.13	90.13	-2,466.22	2,188.14	1,993.92	1,881.00	112.92	17.658	
11,800.00	9,350.00	11,737.45	9,320.00	54.28	58.76	90.13	-2,566.22	2,187.91	1,993.49	1,880.65	112.85	17.666	
11,900.00	9,350.00	11,637.45	9,320.00	55.59	57.41	90.13	-2,666.22	2,187.68	1,993.07	1,880.26	112.81	17.668	
12,000.00	9,350.00	11,537.45	9,320.00	56.93	56.07	90.13	-2,766.22	2,187.44	1,992.64	1,879.84	112.81	17.664	
12,100.00	9,350.00	11,437.45	9,320.00	58.28	54.75	90.13	-2,866.22	2,187.21	1,992.22	1,879.38	112.84	17.656	
12,200.00	9,350.00	11,337.45	9,320.00	59.65	53.45	90.13	-2,966.22	2,186.97	1,991.80	1,878.90	112.90	17.642	
12,300.00	9,350.00	11,237.45	9,320.00	61.03	52.16	90.13	-3,066.21	2,186.74	1,991.37	1,878.37	113.00	17.623	
12,400.00	9,350.00	11,137.45	9,320.00	62.43	50.90	90.13	-3,166.21	2,186.51	1,990.95	1,877.82	113.13	17.599	
12,500.00	9,350.00	11,037.45	9,320.00	63.83	49.66	90.13	-3,266.21	2,186.27	1,990.52	1,877.22	113.30	17.569	
12,600.00	9,350.00	10,937.45	9,320.00	65.25	48.45	90.13	-3,366.21	2,186.04	1,990.10	1,876.59	113.51	17.533	
12,700.00	9,350.00	10,837.45	9,320.00	66.68	47.26	90.13	-3,466.21	2,185.80	1,989.67	1,875.93	113.75	17.492	
12,800.00	9,350.00	10,737.45	9,320.00	68.12	46.11	90.13	-3,566.21	2,185.57	1,989.25	1,875.22	114.03	17.445	
12,900.00	9,350.00	10,637.46	9,320.00	69.57	44.98	90.13	-3,666.21	2,185.34	1,988.83	1,874.47	114.35	17.392	
13,000.00	9,350.00	10,537.46	9,320.00	71.03	43.89	90.13	-3,766.21	2,185.10	1,988.40	1,873.68	114.72	17.333	
13,100.00	9,350.00	10,437.46	9,320.00	72.50	42.83	90.13	-3,866.21	2,184.87	1,987.98	1,872.85	115.13	17.268	
13,200.00	9,350.00	10,337.46	9,320.00	73.98	41.81	90.13	-3,966.20	2,184.63	1,987.55	1,871.97	115.58	17.196	
13,300.00	9,350.00	10,237.46	9,320.00	75.46	40.84	90.13	-4,066.20	2,184.40	1,987.13	1,871.04	116.09	17.117	
13,400.00	9,350.00	10,137.46	9,320.00	76.95	39.90	90.13	-4,166.20	2,184.17	1,986.70	1,870.06	116.65	17.032	
13,500.00	9,350.00	10,037.46	9,320.00	78.45	39.02	90.13	-4,266.20	2,183.93	1,986.28	1,869.02	117.26	16.939	
13,600.00	9,350.00	9,937.46	9,320.00	79.95	38.19	90.13	-4,366.20	2,183.70	1,985.86	1,867.93	117.93	16.839	
13,700.00	9,350.00	9,837.46	9,320.00	81.46	37.41	90.13	-4,466.20	2,183.46	1,985.43	1,866.77	118.66	16.732	
13,800.00	9,350.00	9,737.46	9,320.00	82.98	36.68	90.13	-4,566.20	2,183.23	1,985.01	1,865.56	119.45	16.618	
13,900.00	9,350.00	9,639.63	9,315.09	84.50	36.03	90.07	-4,663.86	2,183.00	1,984.64	1,864.32	120.31	16.495	

MS Energy Services
Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well #205H
Project:	Eddy County, New Mexico (NAD 27)	**TVD Reference:**	WELL @ 3162.00usft (Patterson 297)
Reference Site:	Warren 25-23S-27E RB Fed COM	**MD Reference:**	WELL @ 3162.00usft (Patterson 297)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	#205H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM Conroe
Reference Design:	Design #3	**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: C-MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	161.30	-5,561.81	1,882.74	5,871.85				
100.00	100.00	88.00	88.00	0.13	0.11	161.30	-5,561.81	1,882.74	5,871.84	5,871.60	0.24	N/A	
200.00	200.00	188.00	188.00	0.49	0.44	161.30	-5,561.81	1,882.74	5,871.84	5,870.91	0.93	6,324.399	
300.00	300.00	288.00	288.00	0.84	0.80	161.30	-5,561.81	1,882.74	5,871.84	5,870.19	1.65	3,568.670	
400.00	400.00	388.00	388.00	1.20	1.16	161.30	-5,561.81	1,882.74	5,871.84	5,869.47	2.36	2,485.614	
500.00	500.00	488.00	488.00	1.56	1.52	161.30	-5,561.81	1,882.74	5,871.84	5,868.76	3.08	1,906.891	
600.00	600.00	588.00	588.00	1.92	1.88	161.30	-5,561.81	1,882.74	5,871.84	5,868.04	3.80	1,545.761	
700.00	700.00	688.00	688.00	2.29	2.24	161.30	-5,561.81	1,882.74	5,871.84	5,867.32	4.51	1,301.048	
800.00	800.00	1,332.53	1,331.07	2.64	4.56	161.46	-5,537.80	1,857.58	5,866.24	5,859.07	7.17	818.579	
900.00	899.99	1,432.04	1,430.04	2.99	4.93	161.51	-5,530.62	1,850.06	5,858.11	5,850.23	7.88	743.236	
1,000.00	999.91	1,531.63	1,529.09	3.35	5.31	161.58	-5,523.43	1,842.52	5,852.25	5,843.65	8.60	680.477	
1,066.93	1,066.72	1,598.30	1,595.39	3.60	5.56	161.63	-5,518.62	1,837.48	5,849.60	5,840.52	9.08	644.045	
1,100.00	1,099.70	1,631.23	1,628.14	3.71	5.68	161.66	-5,516.25	1,834.99	5,848.55	5,839.23	9.32	627.416	
1,200.00	1,199.46	1,730.83	1,727.19	4.07	6.06	161.74	-5,509.06	1,827.46	5,845.36	5,835.31	10.05	581.820	
1,300.00	1,299.21	1,830.43	1,826.24	4.44	6.44	161.82	-5,501.87	1,819.93	5,842.19	5,831.41	10.77	542.283	
1,400.00	1,398.97	1,930.03	1,925.30	4.80	6.82	161.90	-5,494.68	1,812.40	5,839.02	5,827.52	11.50	507.686	
1,500.00	1,498.73	2,029.62	2,024.35	5.17	7.21	161.99	-5,487.50	1,804.87	5,835.87	5,823.64	12.23	477.167	
1,600.00	1,598.48	2,129.22	2,123.40	5.53	7.59	162.07	-5,480.31	1,797.33	5,832.74	5,819.78	12.96	450.051	
1,700.00	1,698.24	2,228.82	2,222.45	5.90	7.98	162.15	-5,473.12	1,789.80	5,829.61	5,815.92	13.69	425.804	
1,800.00	1,797.99	2,328.41	2,321.50	6.27	8.36	162.24	-5,465.94	1,782.27	5,826.50	5,812.07	14.42	403.996	
1,900.00	1,897.75	2,428.01	2,420.55	6.64	8.75	162.32	-5,458.75	1,774.74	5,823.39	5,808.24	15.15	384.280	
2,000.00	1,997.51	2,527.61	2,519.60	7.01	9.13	162.40	-5,451.56	1,767.21	5,820.30	5,804.42	15.89	366.370	
2,100.00	2,097.26	2,627.20	2,618.66	7.38	9.52	162.49	-5,444.37	1,759.67	5,817.23	5,800.61	16.62	350.030	
2,200.00	2,197.02	3,082.45	3,069.09	7.75	11.37	162.83	-5,399.62	1,712.78	5,809.80	5,791.16	18.64	311.657	
2,300.00	2,296.77	3,181.33	3,166.47	8.12	11.80	162.95	-5,387.77	1,700.36	5,800.68	5,781.29	19.39	299.210	
2,400.00	2,396.53	3,280.21	3,263.85	8.49	12.22	163.07	-5,375.92	1,687.94	5,791.59	5,771.45	20.13	287.670	
2,500.00	2,496.28	3,379.10	3,361.24	8.86	12.64	163.18	-5,364.06	1,675.51	5,782.52	5,761.64	20.88	276.941	
2,557.14	2,553.26	3,435.60	3,416.88	9.07	12.89	163.25	-5,357.29	1,668.41	5,777.35	5,756.04	21.31	271.144	
2,600.00	2,596.06	3,477.98	3,458.61	9.23	13.07	163.30	-5,352.21	1,663.09	5,773.26	5,751.63	21.63	266.935	
2,700.00	2,695.95	3,576.77	3,555.91	9.59	13.50	163.41	-5,340.36	1,650.68	5,762.10	5,739.73	22.37	257.535	
2,800.00	2,795.93	3,675.41	3,653.05	9.95	13.93	163.50	-5,328.54	1,638.29	5,748.67	5,725.56	23.12	248.679	
2,824.07	2,820.00	3,700.86	3,676.48	10.04	14.04	163.52	-5,325.70	1,635.31	5,745.10	5,721.80	23.30	246.544	
2,900.00	2,895.93	3,773.90	3,750.04	10.30	14.35	163.59	-5,316.73	1,625.91	5,733.63	5,709.77	23.86	240.340	
3,000.00	2,995.93	3,872.38	3,847.02	10.65	14.78	163.68	-5,304.93	1,613.54	5,718.53	5,693.93	24.60	232.505	
3,100.00	3,095.93	3,970.86	3,944.01	11.01	15.21	163.76	-5,293.12	1,601.17	5,703.44	5,678.11	25.33	225.121	
3,200.00	3,195.93	4,069.34	4,040.99	11.36	15.64	163.85	-5,281.32	1,588.80	5,688.37	5,662.29	26.08	218.150	
3,300.00	3,295.93	4,167.82	4,137.98	11.71	16.07	163.94	-5,269.51	1,576.43	5,673.31	5,646.49	26.82	211.558	
3,400.00	3,395.93	4,266.30	4,234.96	12.07	16.51	164.03	-5,257.70	1,564.05	5,658.26	5,630.70	27.56	205.316	
3,500.00	3,495.93	4,300.00	4,268.16	12.42	16.65	164.06	-5,253.72	1,559.88	5,643.66	5,615.60	28.07	201.077	
3,600.00	3,595.93	4,358.17	4,325.58	12.77	16.90	164.10	-5,247.30	1,553.15	5,629.96	5,601.30	28.66	196.436	
3,700.00	3,695.93	4,460.00	4,366.96	13.13	17.08	164.14	-5,243.05	1,548.70	5,617.28	5,588.08	29.19	192.413	
3,800.00	3,795.93	4,445.36	4,411.90	13.48	17.27	164.17	-5,238.81	1,544.25	5,605.58	5,575.84	29.74	188.516	
3,900.00	3,895.93	4,500.00	4,466.12	13.84	17.49	164.20	-5,234.18	1,539.40	5,594.89	5,564.59	30.31	184.597	
4,000.00	3,995.93	14,253.56	9,320.00	14.19	95.95	97.11	-66.44	1,521.72	5,545.25	5,488.74	56.51	98.133	
4,100.00	4,095.93	14,253.56	9,320.00	14.55	95.95	97.11	-66.44	1,521.72	5,449.09	5,392.18	56.91	95.750	
4,200.00	4,195.93	14,253.56	9,320.00	14.90	95.95	97.11	-66.44	1,521.72	5,353.07	5,295.74	57.33	93.380	
4,300.00	4,295.93	14,253.56	9,320.00	15.26	95.95	97.11	-66.44	1,521.72	5,257.20	5,199.44	57.76	91.021	
4,400.00	4,395.93	14,253.56	9,320.00	15.61	95.95	97.11	-66.44	1,521.72	5,161.48	5,103.27	58.21	88.676	
4,500.00	4,495.93	14,253.56	9,320.00	15.97	95.95	97.11	-66.44	1,521.72	5,065.93	5,007.26	58.67	86.344	
4,600.00	4,595.93	14,253.56	9,320.00	16.32	95.95	97.11	-66.44	1,521.72	4,970.56	4,911.40	59.15	84.026	
4,700.00	4,695.93	14,253.56	9,320.00	16.68	95.95	97.11	-66.44	1,521.72	4,875.37	4,815.71	59.66	81.723	
4,800.00	4,795.93	14,253.56	9,320.00	17.03	95.95	97.11	-66.44	1,521.72	4,780.38	4,720.20	60.18	79.435	

MS Energy Services
Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well #205H
Project:	Eddy County, New Mexico (NAD 27)	**TVD Reference:**	WELL @ 3162.00usft (Patterson 297)
Reference Site:	Warren 25-23S-27E RB Fed COM	**MD Reference:**	WELL @ 3162.00usft (Patterson 297)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	#205H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM Conroe
Reference Design:	Design #3	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,400.00	9,279.32	14,138.09	9,320.00	33.01	94.16	90.01	-181.91	1,521.70	1,436.33	1,309.36	126.97	11.312	
9,450.00	9,300.46	14,106.28	9,320.00	33.17	93.67	90.01	-226.28	1,521.70	1,426.64	1,299.99	126.65	11.264	
9,500.00	9,317.59	14,047.71	9,320.00	33.34	92.76	90.01	-272.29	1,521.69	1,416.96	1,291.05	125.91	11.254	
9,550.00	9,330.55	14,000.42	9,320.00	33.52	92.03	90.01	-319.58	1,521.68	1,407.21	1,281.87	125.34	11.227	
9,575.31	9,335.49	13,976.10	9,320.00	33.62	91.66	90.01	-343.90	1,521.68	1,402.24	1,277.19	125.05	11.213	
9,600.00	9,339.47	13,952.23	9,320.00	33.71	91.29	90.01	-367.77	1,521.67	1,397.37	1,272.60	124.77	11.200	
9,650.00	9,345.57	13,903.61	9,320.00	33.91	90.54	90.01	-416.39	1,521.67	1,387.48	1,263.27	124.20	11.171	
9,700.00	9,349.08	13,854.75	9,320.00	34.13	89.79	90.01	-465.25	1,521.66	1,377.52	1,253.87	123.65	11.141	
9,741.98	9,350.00	13,813.64	9,320.00	34.32	89.16	90.01	-506.36	1,521.65	1,369.13	1,245.93	123.20	11.113	
9,800.00	9,350.00	13,756.63	9,320.00	34.61	88.29	90.01	-563.37	1,521.64	1,358.37	1,235.77	122.59	11.080	
9,900.00	9,350.00	13,657.69	9,320.00	35.15	86.77	90.01	-662.31	1,521.63	1,343.90	1,222.30	121.60	11.052	
10,000.00	9,350.00	13,558.13	9,320.00	35.75	85.26	90.01	-761.87	1,521.61	1,334.63	1,213.97	120.67	11.060	
10,100.00	9,350.00	13,458.22	9,320.00	36.40	83.74	90.01	-861.77	1,521.59	1,330.59	1,210.79	119.79	11.107	
10,123.34	9,350.00	13,434.88	9,320.00	36.56	83.36	90.01	-885.12	1,521.59	1,330.40	1,210.80	119.60	11.124	
10,200.00	9,350.00	13,358.23	9,320.00	37.10	82.22	90.01	-961.77	1,521.58	1,330.24	1,211.26	118.98	11.180	
10,300.00	9,350.00	13,258.23	9,320.00	37.86	80.71	90.01	-1,061.77	1,521.56	1,330.03	1,211.80	118.23	11.250	
10,400.00	9,350.00	13,158.23	9,320.00	38.68	79.21	90.01	-1,161.77	1,521.55	1,329.83	1,212.28	117.54	11.314	
10,500.00	9,350.00	13,058.23	9,320.00	39.54	77.72	90.01	-1,261.77	1,521.53	1,329.62	1,212.71	116.91	11.373	
10,600.00	9,350.00	12,958.23	9,320.00	40.46	76.23	90.01	-1,361.77	1,521.51	1,329.41	1,213.07	116.34	11.427	
10,700.00	9,350.00	12,858.23	9,320.00	41.42	74.74	90.01	-1,461.77	1,521.50	1,329.21	1,213.39	115.82	11.476	
10,800.00	9,350.00	12,758.23	9,320.00	42.43	73.27	90.01	-1,561.77	1,521.48	1,329.00	1,213.65	115.35	11.521	
10,900.00	9,350.00	12,658.23	9,320.00	43.48	71.80	90.01	-1,661.77	1,521.46	1,328.80	1,213.87	114.93	11.562	
11,000.00	9,350.00	12,558.23	9,320.00	44.56	70.34	90.01	-1,761.77	1,521.45	1,328.59	1,214.04	114.55	11.598	
11,100.00	9,350.00	12,458.23	9,320.00	45.68	68.89	90.01	-1,861.77	1,521.43	1,328.38	1,214.16	114.22	11.630	
11,200.00	9,350.00	12,358.23	9,320.00	46.83	67.45	90.01	-1,961.77	1,521.42	1,328.18	1,214.25	113.93	11.656	
11,300.00	9,350.00	12,258.23	9,320.00	48.00	66.02	90.01	-2,061.77	1,521.40	1,327.97	1,214.30	113.67	11.682	
11,400.00	9,350.00	12,158.23	9,320.00	49.21	64.60	90.01	-2,161.77	1,521.38	1,327.76	1,214.31	113.46	11.703	
11,500.00	9,350.00	12,058.23	9,320.00	50.44	63.19	90.01	-2,261.77	1,521.37	1,327.56	1,214.28	113.28	11.719	
11,600.00	9,350.00	11,958.23	9,320.00	51.70	61.79	90.01	-2,361.77	1,521.35	1,327.35	1,214.21	113.14	11.732	
11,700.00	9,350.00	11,858.23	9,320.00	52.98	60.41	90.01	-2,461.77	1,521.34	1,327.14	1,214.11	113.03	11.741	
11,800.00	9,350.00	11,758.23	9,320.00	54.28	59.04	90.01	-2,561.77	1,521.32	1,326.94	1,213.98	112.96	11.747	
11,900.00	9,350.00	11,658.23	9,320.00	55.59	57.68	90.01	-2,661.77	1,521.30	1,326.73	1,213.81	112.92	11.750	
12,000.00	9,350.00	11,558.23	9,320.00	56.93	56.35	90.01	-2,761.77	1,521.29	1,326.53	1,213.61	112.91	11.748	
12,100.00	9,350.00	11,458.23	9,320.00	58.28	55.03	90.01	-2,861.77	1,521.27	1,326.32	1,213.38	112.94	11.744	
12,200.00	9,350.00	11,358.23	9,320.00	59.65	53.72	90.01	-2,961.77	1,521.25	1,326.11	1,213.11	113.00	11.735	
12,300.00	9,350.00	11,258.23	9,320.00	61.03	52.44	90.01	-3,061.77	1,521.24	1,325.91	1,212.81	113.10	11.724	
12,400.00	9,350.00	11,158.23	9,320.00	62.43	51.18	90.01	-3,161.77	1,521.22	1,325.70	1,212.47	113.23	11.708	
12,500.00	9,350.00	11,058.23	9,320.00	63.83	49.94	90.01	-3,261.77	1,521.21	1,325.49	1,212.10	113.39	11.689	
12,600.00	9,350.00	10,958.23	9,320.00	65.25	48.73	90.01	-3,361.77	1,521.19	1,325.29	1,211.69	113.59	11.667	
12,700.00	9,350.00	10,858.23	9,320.00	66.68	47.54	90.01	-3,461.77	1,521.17	1,325.08	1,211.25	113.83	11.641	
12,800.00	9,350.00	10,758.23	9,320.00	68.12	46.39	90.01	-3,561.77	1,521.16	1,324.87	1,210.76	114.11	11.610	
12,900.00	9,350.00	10,658.23	9,320.00	69.57	45.26	90.01	-3,661.77	1,521.14	1,324.67	1,210.24	114.43	11.576	
13,000.00	9,350.00	10,558.23	9,320.00	71.03	44.17	90.01	-3,761.77	1,521.13	1,324.46	1,209.67	114.78	11.538	
13,100.00	9,350.00	10,458.23	9,320.00	72.50	43.11	90.01	-3,861.77	1,521.11	1,324.25	1,209.06	115.20	11.496	
13,200.00	9,350.00	10,358.23	9,320.00	73.98	42.09	90.01	-3,961.77	1,521.09	1,324.05	1,208.40	115.65	11.449	
13,300.00	9,350.00	10,258.23	9,320.00	75.46	41.11	90.01	-4,061.77	1,521.08	1,323.84	1,207.69	116.15	11.398	
13,400.00	9,350.00	10,158.23	9,320.00	76.95	40.18	90.01	-4,161.77	1,521.06	1,323.64	1,206.94	116.70	11.342	
13,500.00	9,350.00	10,058.23	9,320.00	78.45	39.30	90.01	-4,261.77	1,521.05	1,323.43	1,206.12	117.31	11.282	
13,600.00	9,350.00	9,958.23	9,320.00	79.95	38.46	90.01	-4,361.77	1,521.03	1,323.22	1,205.25	117.97	11.217	
13,700.00	9,350.00	9,858.23	9,320.00	81.46	37.68	90.01	-4,461.77	1,521.01	1,323.02	1,204.32	118.70	11.146	
13,800.00	9,350.00	9,758.23	9,320.00	82.98	36.96	90.01	-4,561.77	1,521.00	1,322.81	1,203.33	119.48	11.071	
13,900.00	9,350.00	9,660.00	9,316.42	84.50	36.30	89.93	-4,659.89	1,520.98	1,322.66	1,202.32	120.34	10.991	

MS Energy Services
Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well #205H
Project:	Eddy County, New Mexico (NAD 27)	**TVD Reference:**	WELL @ 3162.00usft (Patterson 297)
Reference Site:	Warren 25-23S-27E RB Fed COM	**MD Reference:**	WELL @ 3162.00usft (Patterson 297)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	#205H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM Conroe
Reference Design:	Design #3	**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: C-MWD — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-90.07	-0.11	-90.03	90.03				
100.00	100.00	100.00	100.00	0.13	0.13	-90.07	-0.11	-90.03	90.03	89.78	0.25	353.743	
200.00	200.00	200.00	200.00	0.49	0.49	-90.07	-0.11	-90.03	90.03	89.06	0.97	92.678	
300.00	300.00	300.00	300.00	0.84	0.84	-90.07	-0.11	-90.03	90.03	88.34	1.69	53.324	
400.00	400.00	400.00	400.00	1.20	1.20	-90.07	-0.11	-90.03	90.03	87.63	2.41	37.430	
500.00	500.00	500.00	500.00	1.56	1.56	-90.07	-0.11	-90.03	90.03	86.91	3.12	28.836	
600.00	600.00	600.00	600.00	1.92	1.92	-90.07	-0.11	-90.03	90.03	86.19	3.84	23.451	
700.00	700.00	700.00	700.00	2.28	2.28	-90.07	-0.11	-90.03	90.03	85.48	4.56	19.761	
800.00	800.00	800.00	800.00	2.64	2.64	-90.07	-0.11	-90.03	90.03	84.76	5.27	17.074	CC, ES
900.00	899.99	897.77	897.76	2.99	2.98	-90.64	0.27	-91.23	91.52	85.55	5.97	15.318	
1,000.00	999.91	995.37	995.29	3.35	3.32	-92.23	1.39	-94.85	96.04	89.37	6.67	14.399	
1,066.93	1,066.72	1,060.51	1,060.31	3.60	3.55	-93.75	2.55	-98.51	100.80	93.56	7.13	14.129	
1,100.00	1,099.70	1,093.28	1,093.00	3.71	3.67	-94.53	3.23	-100.68	103.56	96.19	7.37	14.056	
1,200.00	1,199.46	1,207.16	1,192.32	4.07	4.08	-96.64	5.31	-107.31	112.03	103.90	8.13	13.780	
1,300.00	1,299.21	1,307.60	1,291.64	4.44	4.44	-98.45	7.39	-113.94	120.62	111.78	8.85	13.634	
1,400.00	1,398.97	1,408.03	1,390.96	4.80	4.81	-100.02	9.46	-120.57	129.33	119.76	9.57	13.516	
1,500.00	1,498.73	1,508.47	1,490.28	5.17	5.17	-101.39	11.54	-127.19	138.11	127.82	10.29	13.420	
1,600.00	1,598.48	1,606.91	1,589.60	5.53	5.54	-102.59	13.62	-133.82	146.97	135.95	11.02	13.341	
1,700.00	1,698.24	1,709.35	1,688.92	5.90	5.91	-103.66	15.69	-140.45	155.88	144.14	11.74	13.276	
1,800.00	1,797.99	1,809.78	1,788.24	6.27	6.28	-104.61	17.77	-147.07	164.84	152.37	12.47	13.220	
1,900.00	1,897.75	1,889.78	1,887.56	6.64	6.57	-105.46	19.85	-153.70	173.84	160.72	13.12	13.247	
2,000.00	1,997.51	1,989.34	1,986.88	7.01	6.94	-106.23	21.92	-160.33	182.87	169.03	13.85	13.205	
2,100.00	2,097.26	2,088.90	2,086.20	7.38	7.31	-106.93	24.00	-166.96	191.94	177.36	14.58	13.169	
2,200.00	2,197.02	2,188.46	2,185.52	7.75	7.68	-107.56	26.08	-173.58	201.03	185.73	15.30	13.137	
2,300.00	2,296.77	2,288.03	2,284.84	8.12	8.05	-108.14	28.15	-180.21	210.14	194.11	16.03	13.109	
2,400.00	2,396.53	2,387.59	2,384.16	8.49	8.42	-108.67	30.23	-186.84	219.28	202.52	16.76	13.085	
2,500.00	2,496.28	2,487.15	2,483.47	8.86	8.79	-109.16	32.31	-193.47	228.43	210.94	17.49	13.063	
2,557.14	2,553.28	2,541.98	2,538.15	9.07	8.99	-109.41	33.52	-197.33	233.86	215.97	17.89	13.072	
2,600.00	2,596.06	2,582.61	2,578.63	9.23	9.15	-109.47	34.57	-200.67	238.22	220.03	18.19	13.099	
2,700.00	2,695.95	2,677.17	2,672.68	9.59	9.51	-109.02	37.50	-210.02	248.67	230.00	18.67	13.189	
2,800.00	2,795.93	2,771.49	2,766.22	9.95	9.88	-107.78	41.11	-221.56	260.25	240.71	19.54	13.318	
2,824.07	2,820.00	2,804.67	2,799.83	10.04	10.01	-107.39	42.10	-224.72	263.04	243.30	19.75	13.320	
2,900.00	2,895.93	2,870.52	2,864.29	10.30	10.27	-106.12	45.23	-234.71	271.82	251.56	20.26	13.419	
3,000.00	2,995.93	2,969.55	2,962.35	10.65	10.67	-104.57	49.36	-247.87	283.56	262.59	20.97	13.522	
3,100.00	3,095.93	3,068.57	3,060.41	11.01	11.07	-103.15	53.48	-261.02	295.60	273.81	21.69	13.626	
3,200.00	3,195.93	3,167.60	3,158.47	11.36	11.46	-101.83	57.60	-274.18	307.80	285.20	22.40	13.732	
3,300.00	3,295.93	3,266.63	3,256.53	11.71	11.86	-100.62	61.73	-287.33	319.84	296.73	23.12	13.837	
3,400.00	3,395.93	3,365.65	3,354.60	12.07	12.27	-99.49	65.85	-300.49	332.22	308.39	23.83	13.941	
3,500.00	3,495.93	3,464.68	3,452.66	12.42	12.67	-98.45	69.97	-313.64	344.72	320.18	24.55	14.044	
3,600.00	3,595.93	3,563.70	3,550.72	12.77	13.07	-97.47	74.10	-326.80	357.32	332.06	25.26	14.145	
3,700.00	3,695.93	3,662.73	3,648.78	13.13	13.47	-96.57	78.22	-339.95	370.02	344.05	25.98	14.245	
3,800.00	3,795.93	3,761.76	3,746.84	13.48	13.88	-95.72	82.34	-353.11	382.81	356.11	26.69	14.342	
3,900.00	3,895.93	3,860.78	3,844.90	13.84	14.29	-94.93	86.47	-366.26	395.66	368.26	27.41	14.436	
4,000.00	3,995.93	3,959.81	3,942.97	14.19	14.69	-94.19	90.59	-379.42	408.59	380.47	28.12	14.528	
4,100.00	4,095.93	4,058.83	4,041.03	14.55	15.10	-93.50	94.71	-392.58	421.59	392.75	28.84	14.618	
4,200.00	4,195.93	4,157.86	4,139.09	14.90	15.51	-92.84	98.84	-405.73	434.64	405.08	29.56	14.705	
4,300.00	4,295.93	4,256.89	4,237.15	15.26	15.91	-92.23	102.96	-418.89	447.74	417.46	30.27	14.789	
4,400.00	4,395.93	4,355.91	4,335.21	15.61	16.32	-91.65	107.08	-432.04	460.89	429.90	30.99	14.872	
4,500.00	4,495.93	4,455.32	4,433.68	15.97	16.77	-91.08	111.34	-445.61	473.23	441.44	31.80	14.884	
4,600.00	4,595.93	4,578.23	4,556.01	16.32	17.21	-90.65	114.77	-456.56	482.89	450.28	32.61	14.810	
4,700.00	4,695.93	4,691.73	4,669.21	16.68	17.63	-90.35	117.22	-464.37	489.75	456.36	33.40	14.665	
4,800.00	4,795.93	4,805.61	4,782.99	17.03	18.04	-90.18	118.66	-468.98	493.79	459.63	34.16	14.456	

MS Energy Services
Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well #205H
Project:	Eddy County, New Mexico (NAD 27)	**TVD Reference:**	WELL @ 3162.00usft (Patterson 297)
Reference Site:	Warren 25-23S-27E RB Fed COM	**MD Reference:**	WELL @ 3162.00usft (Patterson 297)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	#205H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM Conroe
Reference Design:	Design #3	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,400.00	9,279.32	9,301.96	9,279.32	33.01	33.44	-61.62	119.09	-470.36	632.75	567.06	65.68	9.634	
9,450.00	9,300.46	9,323.10	9,300.46	33.17	33.51	-58.61	119.09	-470.36	662.73	596.87	65.85	10.064	
9,500.00	9,317.59	9,340.23	9,317.59	33.34	33.57	-55.78	119.09	-470.36	695.56	629.58	66.00	10.539	
9,550.00	9,330.55	9,353.19	9,330.55	33.52	33.61	-53.14	119.09	-470.36	730.93	664.80	66.13	11.054	
9,575.31	9,335.49	9,358.13	9,335.49	33.62	33.63	-51.88	119.09	-470.36	749.68	683.50	66.18	11.328	
9,600.00	9,339.47	9,362.11	9,339.47	33.71	33.65	-50.71	119.09	-470.36	768.41	702.19	66.22	11.603	
9,650.00	9,345.57	9,368.21	9,345.57	33.91	33.67	-48.48	119.09	-470.36	807.50	741.19	66.30	12.179	
9,700.00	9,349.08	9,371.72	9,349.08	34.13	33.68	-46.46	119.09	-470.36	847.89	781.52	66.37	12.776	
9,741.98	9,350.00	9,372.64	9,350.00	34.32	33.68	-44.90	119.09	-470.36	882.63	816.22	66.41	13.291	
9,800.00	9,350.00	9,372.64	9,350.00	34.61	33.68	-42.89	119.09	-470.36	931.18	864.72	66.46	14.011	
9,900.00	9,350.00	9,372.64	9,350.00	35.15	33.68	-39.68	119.09	-470.36	1,015.09	948.55	66.54	15.255	
10,000.00	9,350.00	9,372.64	9,350.00	35.75	33.68	-36.74	119.09	-470.36	1,099.07	1,032.45	66.62	16.498	
10,100.00	9,350.00	11,053.13	10,300.00	36.40	39.26	-90.11	-862.78	-468.54	1,156.57	1,103.75	52.82	21.896	
10,123.34	9,350.00	11,076.48	10,300.00	36.56	39.40	-90.11	-886.13	-468.49	1,156.65	1,103.83	53.02	21.815	
10,200.00	9,350.00	11,153.13	10,300.00	37.10	39.90	-90.11	-962.78	-468.35	1,156.66	1,102.94	53.71	21.535	
10,300.00	9,350.00	11,253.13	10,300.00	37.86	40.60	-90.11	-1,062.78	-468.17	1,156.66	1,101.98	54.68	21.153	
10,400.00	9,350.00	11,353.13	10,300.00	38.63	41.35	-90.11	-1,162.78	-467.98	1,156.66	1,100.94	55.73	20.756	
10,500.00	9,350.00	11,453.13	10,300.00	39.54	42.16	-90.11	-1,262.78	-467.80	1,156.66	1,099.82	56.85	20.347	
10,600.00	9,350.00	11,553.13	10,300.00	40.46	43.01	-90.11	-1,362.78	-467.61	1,156.67	1,098.63	58.03	19.931	
10,700.00	9,350.00	11,653.13	10,300.00	41.42	43.91	-90.11	-1,462.78	-467.43	1,156.67	1,097.38	59.29	19.510	
10,800.00	9,350.00	11,753.13	10,300.00	42.43	44.85	-90.11	-1,562.78	-467.24	1,156.67	1,096.07	60.60	19.087	
10,900.00	9,350.00	11,853.13	10,300.00	43.48	45.83	-90.11	-1,662.78	-467.06	1,156.66	1,094.71	61.97	18.665	
11,000.00	9,350.00	11,953.13	10,300.00	44.56	46.85	-90.11	-1,762.78	-466.87	1,156.66	1,093.29	63.39	18.246	
11,100.00	9,350.00	12,053.13	10,300.00	45.68	47.90	-90.11	-1,862.78	-466.69	1,156.66	1,091.82	64.86	17.832	
11,200.00	9,350.00	12,153.13	10,300.00	46.83	48.99	-90.11	-1,962.78	-466.50	1,156.69	1,090.30	66.38	17.424	
11,300.00	9,350.00	12,253.13	10,300.00	48.00	50.11	-90.11	-2,062.78	-466.32	1,156.69	1,088.74	67.94	17.024	
11,400.00	9,350.00	12,353.13	10,300.00	49.21	51.26	-90.11	-2,162.78	-466.13	1,156.69	1,087.14	69.55	16.632	
11,500.00	9,350.00	12,453.13	10,300.00	50.44	52.43	-90.11	-2,262.78	-465.95	1,156.69	1,085.51	71.19	16.249	
11,600.00	9,350.00	12,553.13	10,300.00	51.70	53.63	-90.11	-2,362.78	-465.76	1,156.70	1,083.84	72.86	15.875	
11,700.00	9,350.00	12,653.13	10,300.00	52.98	54.86	-90.11	-2,462.78	-465.58	1,156.70	1,082.13	74.57	15.512	
11,800.00	9,350.00	12,753.13	10,300.00	54.28	56.10	-90.11	-2,562.78	-465.39	1,156.70	1,080.40	76.31	15.159	
11,900.00	9,350.00	12,853.13	10,300.00	55.59	57.37	-90.11	-2,662.78	-465.21	1,156.71	1,078.63	78.07	14.816	
12,000.00	9,350.00	12,953.13	10,300.00	56.93	58.66	-90.11	-2,762.78	-465.02	1,156.71	1,076.84	79.86	14.483	
12,100.00	9,350.00	13,053.13	10,300.00	58.28	59.96	-90.11	-2,862.78	-464.84	1,156.71	1,075.03	81.68	14.161	
12,200.00	9,350.00	13,153.13	10,300.00	59.65	61.28	-90.11	-2,962.78	-464.65	1,156.71	1,073.19	83.52	13.849	
12,300.00	9,350.00	13,253.13	10,300.00	61.03	62.62	-90.11	-3,062.78	-464.46	1,156.72	1,071.33	85.39	13.547	
12,400.00	9,350.00	13,353.13	10,300.00	62.43	63.97	-90.11	-3,162.78	-464.28	1,156.72	1,069.45	87.27	13.255	
12,500.00	9,350.00	13,453.13	10,300.00	63.83	65.34	-90.11	-3,262.78	-464.09	1,156.72	1,067.55	89.17	12.972	
12,600.00	9,350.00	13,553.13	10,300.00	65.25	66.72	-90.11	-3,362.78	-463.91	1,156.73	1,065.64	91.09	12.699	
12,700.00	9,350.00	13,653.13	10,300.00	66.68	68.11	-90.11	-3,462.78	-463.72	1,156.73	1,063.70	93.03	12.434	
12,800.00	9,350.00	13,753.13	10,300.00	68.12	69.51	-90.11	-3,562.78	-463.54	1,156.73	1,061.75	94.98	12.179	
12,900.00	9,350.00	13,853.13	10,300.00	69.57	70.93	-90.11	-3,662.78	-463.35	1,156.74	1,059.79	96.95	11.932	
13,000.00	9,350.00	13,953.13	10,300.00	71.03	72.35	-90.11	-3,762.78	-463.17	1,156.74	1,057.81	98.93	11.693	
13,100.00	9,350.00	14,053.13	10,300.00	72.50	73.79	-90.11	-3,862.78	-462.98	1,156.74	1,055.82	100.92	11.462	
13,200.00	9,350.00	14,153.13	10,300.00	73.98	75.23	-90.11	-3,962.78	-462.80	1,156.74	1,053.82	102.93	11.239	
13,300.00	9,350.00	14,253.13	10,300.00	75.46	76.68	-90.11	-4,062.78	-462.61	1,156.75	1,051.80	104.94	11.022	
13,400.00	9,350.00	14,353.13	10,300.00	76.95	78.14	-90.11	-4,162.78	-462.43	1,156.75	1,049.78	106.97	10.813	
13,500.00	9,350.00	14,453.13	10,300.00	78.45	79.61	-90.11	-4,262.78	-462.24	1,156.75	1,047.74	109.01	10.611	
13,600.00	9,350.00	14,553.13	10,300.00	79.95	81.09	-90.11	-4,362.77	-462.06	1,156.76	1,045.69	111.06	10.415	
13,700.00	9,350.00	14,653.13	10,300.00	81.46	82.57	-90.11	-4,462.77	-461.87	1,156.76	1,043.64	113.12	10.226	
13,800.00	9,350.00	14,753.13	10,300.00	82.98	84.06	-90.11	-4,562.77	-461.69	1,156.76	1,041.57	115.19	10.042	
13,900.00	9,350.00	14,853.13	10,300.00	84.50	85.55	-90.11	-4,662.77	-461.50	1,156.76	1,039.50	117.26	9.865	

MS Energy Services
Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well #205H
Project:	Eddy County, New Mexico (NAD 27)	**TVD Reference:**	WELL @ 3162.00usft (Patterson 297)
Reference Site:	Warren 25-23S-27E RB Fed COM	**MD Reference:**	WELL @ 3162.00usft (Patterson 297)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	#205H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM Conroe
Reference Design:	Design #3	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	89.74	0.14	29.95	29.95				
100.00	100.00	100.00	100.00	0.13	0.13	89.74	0.14	29.95	29.95	29.70	0.25	117.676	
200.00	200.00	200.00	200.00	0.49	0.49	89.74	0.14	29.95	29.95	28.98	0.97	30.830	
300.00	300.00	300.00	300.00	0.84	0.84	89.74	0.14	29.95	29.95	28.26	1.69	17.739	
400.00	400.00	400.00	400.00	1.20	1.20	89.74	0.14	29.95	29.95	27.54	2.41	12.452	
500.00	500.00	500.00	500.00	1.56	1.56	89.74	0.14	29.95	29.95	26.83	3.12	9.592	
600.00	600.00	600.00	600.00	1.92	1.92	89.74	0.14	29.95	29.95	26.11	3.84	7.801	
700.00	700.00	700.00	700.00	2.28	2.28	89.74	0.14	29.95	29.95	25.39	4.56	6.574	
800.00	800.00	800.00	800.00	2.64	2.64	89.74	0.14	29.95	29.95	24.68	5.27	5.680	CC, ES
900.00	899.99	899.37	899.36	2.99	2.99	90.68	0.92	30.98	30.73	24.74	5.98	5.136	
1,000.00	999.91	998.68	998.59	3.35	3.34	93.26	3.25	34.07	33.10	26.41	6.69	4.949	
1,065.93	1,065.72	1,064.58	1,064.48	3.60	3.59	95.58	5.67	37.29	35.63	28.46	7.17	4.968	
1,100.00	1,099.70	1,101.88	1,097.83	3.71	3.71	96.72	7.06	39.13	37.10	29.69	7.41	5.006	
1,200.00	1,199.46	1,202.00	1,197.46	4.07	4.07	99.66	11.26	44.70	41.60	33.47	8.13	5.117	
1,300.00	1,299.21	1,302.12	1,297.10	4.44	4.43	102.03	15.46	50.27	46.19	37.33	8.85	5.217	
1,400.00	1,398.97	1,402.24	1,396.73	4.80	4.80	103.97	19.66	55.83	50.84	41.26	9.58	5.308	
1,500.00	1,498.73	1,502.37	1,496.37	5.17	5.16	105.58	23.86	61.40	55.54	45.24	10.31	5.389	
1,600.00	1,598.48	1,602.49	1,596.00	5.53	5.53	106.93	28.05	66.97	60.28	49.24	11.04	5.461	
1,700.00	1,698.24	1,702.61	1,695.64	5.90	5.90	108.09	32.25	72.53	65.05	53.28	11.77	5.527	
1,800.00	1,797.99	1,802.73	1,795.27	6.27	6.27	109.09	36.45	78.10	69.84	57.34	12.50	5.585	
1,900.00	1,897.75	1,902.85	1,894.90	6.64	6.63	109.96	40.65	83.67	74.65	61.41	13.24	5.639	
2,000.00	1,997.51	2,002.97	1,994.54	7.01	7.00	110.73	44.85	89.24	79.48	65.50	13.97	5.687	
2,100.00	2,097.26	2,103.10	2,094.17	7.38	7.37	111.41	49.05	94.80	84.31	69.60	14.71	5.731	
2,200.00	2,197.02	2,203.22	2,193.81	7.75	7.74	112.01	53.25	100.37	89.16	73.71	15.45	5.772	
2,300.00	2,296.77	2,303.34	2,293.44	8.12	8.12	112.55	57.44	105.94	94.02	77.83	16.19	5.809	
2,400.00	2,396.53	2,396.54	2,393.08	8.49	8.46	113.04	61.64	111.50	98.88	81.98	16.90	5.852	
2,500.00	2,496.28	2,503.58	2,492.71	8.86	8.86	113.48	65.84	117.07	103.75	86.09	17.66	5.874	
2,557.14	2,553.23	2,553.49	2,549.64	9.07	9.04	113.72	68.24	120.25	106.54	88.48	18.06	5.900	
2,600.00	2,596.06	2,603.70	2,592.35	9.23	9.23	113.76	70.04	122.64	108.58	90.18	18.40	5.901	
2,700.00	2,695.95	2,703.81	2,691.99	9.59	9.60	112.93	74.24	128.21	112.96	93.83	19.13	5.905	
2,800.00	2,795.93	2,803.98	2,791.59	9.95	9.97	110.91	78.44	133.77	116.92	97.06	19.85	5.890	
2,824.07	2,820.00	2,820.04	2,815.55	10.04	10.03	110.25	79.45	135.11	117.83	97.84	19.99	5.893	
2,900.00	2,895.93	2,904.22	2,891.10	10.30	10.35	108.14	82.63	139.33	120.78	100.22	20.56	5.873	
3,000.00	2,995.93	3,004.46	2,990.62	10.65	10.72	105.51	86.82	144.89	124.91	103.63	21.28	5.871	
3,100.00	3,095.93	3,104.71	3,090.13	11.01	11.09	103.06	91.02	150.45	129.28	107.29	21.99	5.880	
3,200.00	3,195.93	3,204.95	3,189.64	11.36	11.46	100.77	95.21	156.01	133.87	111.17	22.70	5.898	
3,300.00	3,295.93	3,305.19	3,289.15	11.71	11.84	98.64	99.40	161.57	138.67	115.26	23.41	5.923	
3,400.00	3,395.93	3,394.56	3,388.67	12.07	12.17	96.65	103.60	167.13	143.64	119.56	24.08	5.965	
3,500.00	3,495.93	3,505.68	3,488.18	12.42	12.58	94.79	107.79	172.69	148.77	123.94	24.83	5.991	
3,600.00	3,595.93	3,605.93	3,587.69	12.77	12.96	93.06	111.98	178.25	154.05	128.51	25.54	6.031	
3,700.00	3,695.93	3,694.81	3,688.19	13.13	13.29	91.46	116.15	183.78	159.37	133.15	26.22	6.079	
3,800.00	3,795.93	3,798.14	3,791.39	13.48	13.66	90.36	119.15	187.78	163.20	136.25	26.95	6.056	
3,900.00	3,895.93	3,901.66	3,894.89	13.84	14.03	89.90	120.50	189.55	164.91	137.24	27.67	5.961	
4,000.00	3,995.93	4,002.70	3,995.93	14.19	14.38	89.87	120.57	189.64	165.00	136.63	28.37	5.816	
4,100.00	4,095.93	4,102.70	4,095.93	14.55	14.73	89.87	120.57	189.64	165.00	135.92	29.08	5.675	
4,200.00	4,195.93	4,202.70	4,195.93	14.90	15.08	89.87	120.57	189.64	165.00	135.22	29.78	5.541	
4,300.00	4,295.93	4,302.70	4,295.93	15.26	15.42	89.87	120.57	189.64	165.00	134.51	30.49	5.412	
4,400.00	4,395.93	4,402.70	4,395.93	15.61	15.77	89.87	120.57	189.64	165.00	133.81	31.19	5.290	
4,500.00	4,495.93	4,502.70	4,495.93	15.97	16.12	89.87	120.57	189.64	165.00	133.10	31.90	5.173	
4,600.00	4,595.93	4,602.70	4,595.93	16.32	16.47	89.87	120.57	189.64	165.00	132.39	32.61	5.060	
4,700.00	4,695.93	4,702.70	4,695.93	16.68	16.82	89.87	120.57	189.64	165.00	131.69	33.31	4.953	
4,800.00	4,795.93	4,802.70	4,795.93	17.03	17.17	89.87	120.57	189.64	165.00	130.98	34.02	4.850	

MS Energy Services
Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well #205H
Project:	Eddy County, New Mexico (NAD 27)	**TVD Reference:**	WELL @ 3162.00usft (Patterson 297)
Reference Site:	Warren 25-23S-27E RB Fed COM	**MD Reference:**	WELL @ 3162.00usft (Patterson 297)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	#205H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM Conroe
Reference Design:	Design #3	**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

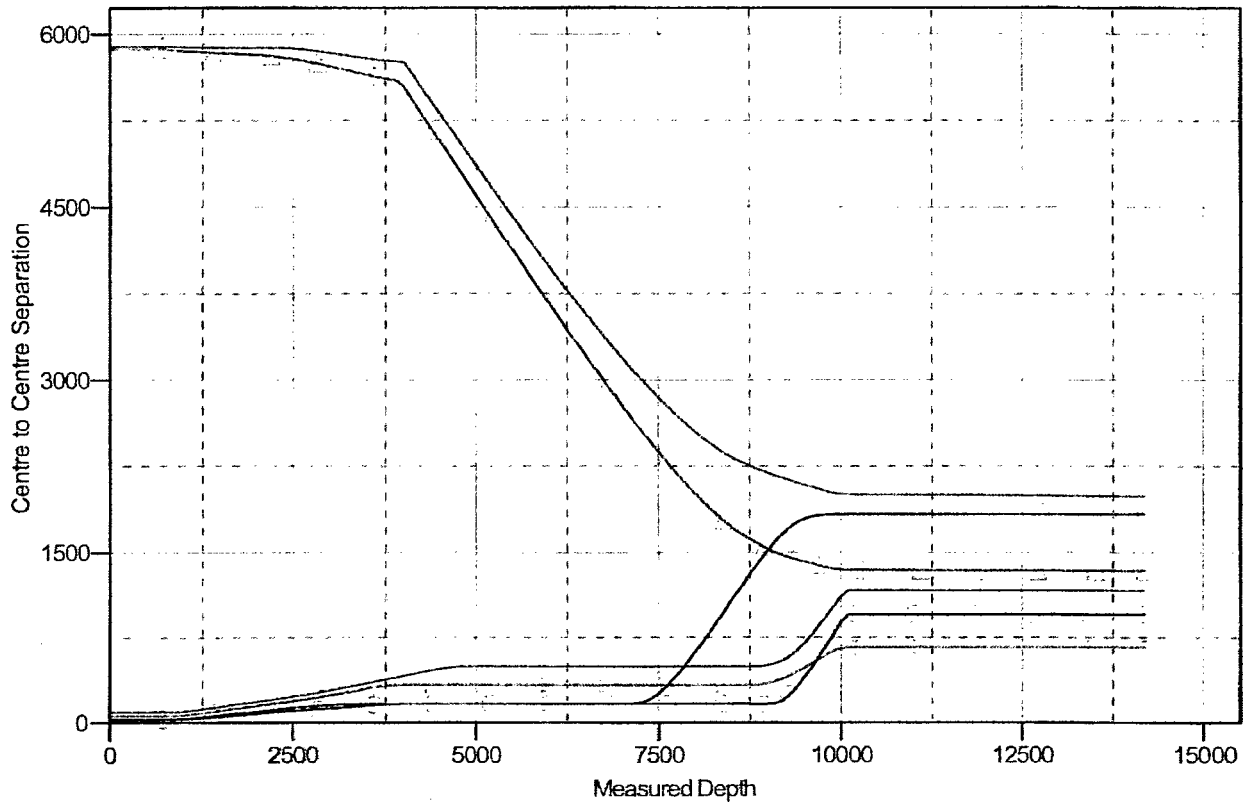
Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Azimuth from North (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,350.00	9,254.30	9,261.07	9,254.30	32.86	32.95	23.31	120.57	189.64	282.95	217.35	65.60	4.313	
9,400.00	9,279.32	9,286.09	9,279.32	33.01	33.04	18.87	120.57	189.64	319.42	253.65	65.77	4.857	
9,450.00	9,300.46	9,307.24	9,300.46	33.17	33.11	15.21	120.57	189.64	359.20	293.30	65.90	5.450	
9,500.00	9,317.59	9,324.36	9,317.59	33.34	33.17	12.19	120.57	189.64	401.69	335.68	66.01	6.085	
9,550.00	9,330.55	9,337.32	9,330.55	33.52	33.22	9.70	120.57	189.64	446.30	380.21	66.09	6.753	
9,575.31	9,335.49	9,342.27	9,335.49	33.62	33.24	8.60	120.57	189.64	469.53	403.40	66.12	7.101	
9,600.00	9,339.47	9,346.24	9,339.47	33.71	33.25	7.62	120.57	189.64	492.47	426.33	66.15	7.445	
9,650.00	9,345.57	9,352.35	9,345.57	33.91	33.27	5.89	120.57	189.64	539.59	473.40	66.18	8.153	
9,700.00	9,349.08	9,355.85	9,349.08	34.13	33.29	4.43	120.57	189.64	587.35	521.15	66.21	8.872	
9,741.98	9,350.00	9,356.77	9,350.00	34.32	33.29	3.38	120.57	189.64	627.80	561.59	66.22	9.481	
9,800.00	9,350.00	9,356.77	9,350.00	34.61	33.29	2.20	120.57	189.64	684.23	618.00	66.22	10.332	
9,900.00	9,350.00	9,356.77	9,350.00	35.15	33.29	0.86	120.57	189.64	782.75	716.52	66.24	11.817	
10,000.00	9,350.00	9,356.77	9,350.00	35.75	33.29	0.17	120.57	189.64	882.23	815.98	66.25	13.317	
10,100.00	9,350.00	11,037.53	10,300.00	36.40	39.10	89.92	-861.56	191.46	950.00	910.90	39.10	24.299	
10,123.34	9,350.00	11,060.87	10,300.00	36.56	39.24	89.94	-884.90	191.51	950.00	910.77	39.23	24.218	
10,200.00	9,350.00	11,137.53	10,300.00	37.10	39.74	89.95	-961.56	191.65	950.00	910.32	39.68	23.942	
10,300.00	9,350.00	11,237.53	10,300.00	37.86	40.43	89.95	-1,061.56	191.84	950.00	909.69	40.31	23.565	
10,400.00	9,350.00	11,337.53	10,300.00	38.68	41.16	89.95	-1,161.56	192.02	950.00	909.00	41.00	23.171	
10,500.00	9,350.00	11,437.53	10,300.00	39.54	41.99	89.95	-1,261.56	192.21	950.00	908.27	41.73	22.763	
10,600.00	9,350.00	11,537.53	10,300.00	40.46	42.84	89.95	-1,361.56	192.39	950.00	907.49	42.51	22.346	
10,700.00	9,350.00	11,637.53	10,300.00	41.42	43.74	89.95	-1,461.56	192.58	950.00	906.66	43.34	21.922	
10,800.00	9,350.00	11,737.53	10,300.00	42.43	44.68	89.96	-1,561.56	192.76	950.00	905.80	44.20	21.494	
10,900.00	9,350.00	11,837.53	10,300.00	43.48	45.66	89.96	-1,661.56	192.95	950.00	904.90	45.10	21.065	
11,000.00	9,350.00	11,937.53	10,300.00	44.56	46.68	89.96	-1,761.56	193.13	950.00	903.97	46.03	20.637	
11,100.00	9,350.00	12,037.53	10,300.00	45.68	47.73	89.96	-1,861.56	193.32	950.00	903.00	47.00	20.211	
11,200.00	9,350.00	12,137.53	10,300.00	46.83	48.82	89.96	-1,961.56	193.50	950.00	901.99	48.01	19.789	
11,300.00	9,350.00	12,237.53	10,300.00	48.00	49.94	89.97	-2,061.56	193.69	950.00	900.96	49.04	19.373	
11,400.00	9,350.00	12,337.53	10,300.00	49.21	51.09	89.97	-2,161.56	193.88	950.00	899.90	50.10	18.963	
11,500.00	9,350.00	12,437.53	10,300.00	50.44	52.27	89.97	-2,261.56	194.06	950.00	898.82	51.18	18.561	
11,600.00	9,350.00	12,537.53	10,300.00	51.70	53.47	89.97	-2,361.56	194.25	950.00	897.71	52.29	18.167	
11,700.00	9,350.00	12,637.53	10,300.00	52.98	54.70	89.98	-2,461.56	194.43	950.00	896.58	53.42	17.782	
11,800.00	9,350.00	12,737.53	10,300.00	54.28	55.94	89.98	-2,561.56	194.62	950.00	895.42	54.58	17.406	
11,900.00	9,350.00	12,837.53	10,300.00	55.59	57.21	89.98	-2,661.56	194.80	950.00	894.25	55.75	17.039	
12,000.00	9,350.00	12,937.53	10,300.00	56.93	58.50	89.99	-2,761.56	194.99	950.00	893.05	56.95	16.682	
12,100.00	9,350.00	13,037.53	10,300.00	58.28	59.81	89.99	-2,861.56	195.17	950.00	891.84	58.16	16.335	
12,200.00	9,350.00	13,137.53	10,300.00	59.65	61.13	90.00	-2,961.56	195.36	950.00	890.61	59.39	15.997	
12,300.00	9,350.00	13,237.53	10,300.00	61.03	62.47	90.00	-3,061.56	195.55	950.00	889.37	60.63	15.669	
12,400.00	9,350.00	13,337.53	10,300.00	62.43	63.82	90.01	-3,161.56	195.73	950.00	888.11	61.89	15.350	
12,500.00	9,350.00	13,437.53	10,300.00	63.83	65.19	90.02	-3,261.55	195.92	950.00	886.84	63.16	15.041	
12,600.00	9,350.00	13,537.53	10,300.00	65.25	66.57	90.02	-3,361.55	196.10	950.00	885.55	64.45	14.741	
12,700.00	9,350.00	13,637.53	10,300.00	66.68	67.97	90.03	-3,461.55	196.29	950.00	884.25	65.75	14.450	
12,800.00	9,350.00	13,737.53	10,300.00	68.12	69.37	90.04	-3,561.55	196.47	950.00	882.94	67.06	14.167	
12,900.00	9,350.00	13,837.53	10,300.00	69.57	70.79	90.06	-3,661.55	196.66	950.00	881.62	68.38	13.894	
13,000.00	9,350.00	13,937.53	10,300.00	71.03	72.21	90.07	-3,761.55	196.84	950.00	880.29	69.71	13.629	
13,100.00	9,350.00	14,037.53	10,300.00	72.50	73.65	90.09	-3,861.55	197.03	950.00	878.95	71.05	13.372	
13,200.00	9,350.00	14,137.53	10,300.00	73.98	75.09	90.10	-3,961.55	197.21	950.00	877.60	72.40	13.122	
13,300.00	9,350.00	14,237.53	10,300.00	75.46	76.55	90.13	-4,061.55	197.40	950.00	876.25	73.75	12.881	
13,400.00	9,350.00	14,337.53	10,300.00	76.95	78.01	90.16	-4,161.55	197.59	950.00	874.88	75.12	12.646	
13,500.00	9,350.00	14,437.53	10,300.00	78.45	79.48	90.20	-4,261.55	197.77	950.00	873.51	76.49	12.419	
13,600.00	9,350.00	14,537.53	10,300.00	79.95	80.96	90.25	-4,361.55	197.96	950.00	872.12	77.88	12.199	
13,700.00	9,350.00	14,637.53	10,300.00	81.46	82.44	90.32	-4,461.55	198.14	950.00	870.73	79.27	11.985	
13,800.00	9,350.00	14,737.53	10,300.00	82.98	83.93	90.43	-4,561.55	198.33	950.00	869.34	80.66	11.778	

MS Energy Services
Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well #205H
Project:	Eddy County, New Mexico (NAD 27)	**TVD Reference:**	WELL @ 3162.00usft (Patterson 297)
Reference Site:	Warren 25-23S-27E RB Fed COM	**MD Reference:**	WELL @ 3162.00usft (Patterson 297)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	#205H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM Conroe
Reference Design:	Design #3	**Offset TVD Reference:**	Offset Datum

Reference Depths are relative to WELL @ 3162.00usft (Patterson 297)	Coordinates are relative to: #205H
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°

Ladder Plot



LEGEND

Matador Production Company
Warren Fed Com 205H
SHL 170' FNL & 800' FWL Sec. 25
BHL 240' FSL & 990' FWL Sec. 25
T. 23 S., R. 27 E., Eddy County, NM

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	3163	hydrocarbons
Brushy Canyon Sandstone	4336	4340	hydrocarbons
Bone Spring Limestone	5828	5832	hydrocarbons
1st Bone Spring Carbonate	6497	6501	hydrocarbons
1st Bone Spring Sand	6867	6871	hydrocarbons
2nd Bone Spring Carbonate	7069	7071	hydrocarbons
2nd Bone Spring Sand	7515	7519	hydrocarbons
3rd Bone Spring Carbonate	7666	7670	hydrocarbons
3rd Bone Spring Sand	8853	8859	hydrocarbons
Wolfcamp Limestone	9217	9252	hydrocarbons
Wolfcamp X Sand Top	9226	9300	hydrocarbons
Wolfcamp X Sand Base	9260	9373	hydrocarbons
Wolfcamp Y Sand Top	9304	9484	hydrocarbons & goal
Wolfcamp Y Sand Base	9345	9650	hydrocarbons
TD	9350	14185	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 ≥330' from the dedication perimeter. A windmill is ≈2700' SSW, but it is not in the State Engineer's database. Closest water well (C 02567) in the

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' - 9575'	0' – 9335'	7"	29	P-110	BTC	1.125	1.125	1.8
6.125"	0' – 14185'	0' – 9350'	4.5"	13.5	P-110	BTC/TXP	1.125	1.125	1.8

6. CORES, TESTS, & LOGS

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.

7. DOWN HOLE CONDITIONS

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

Matador does not anticipate that there will be enough H_2S from surface to the Bone Spring to meet BLM's minimum requirements for submitting an "H_2S Drilling Operation Plan" or "Public Protection Plan" for drilling and completing this well. Since Matador has an H_2S safety package on all wells, an "H_2S 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 ≈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.

For the latest performance data, always visit our website: www.tenaris.com

December 31 2015

Tenaris

Size: 4.500 in.
Wall: 0.290 in.
Weight: 13.50 lbs/ft
Grade: P110-ICY
Min. Wall Thickness: 87.5 %

Connection: TenarisXP® BTC
Casing/Tubing: CAS
Coupling Option: REGULAR

Nominal OD	4.500 in.	Nominal Weight	13.50 lbs/ft	Standard Drift Diameter	3.795 in.
Nominal ID	3.920 in.	Wall Thickness	0.290 in.	Special Drift Diameter	N/A
Plain End Weight	13.05 lbs/ft				

Body Yield Strength	479 x 1000 lbs	Internal Yield	14100 psi	SMYS	125000 psi
Collapse	11620 psi				

Connection OD	5.000 in.	Coupling Length	9.075 in.	Connection ID	3.908 in.
Critical Section Area	3.836 sq. in.	Threads per in.	5.00	Make-Up Loss	4.016 in.

Tension Efficiency	100 %	Joint Yield Strength	479 x 1000 lbs	Internal Pressure Capacity[1]	14100 psi
Structural Compression Efficiency	100 %	Structural Compression Strength	479 x 1000 lbs	Structural Bending[2]	127 °/100 ft
External Pressure Capacity	11620 psi				

Minimum	6950 ft-lbs	Optimum	7720 ft-lbs	Maximum	8490 ft-lbs

Operating Torque	10500 ft-lbs	Yield Torque	12200 ft-lbs		

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: WARREN FED COM **Well Number:** 205H

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_205H_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_205H_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:** 205H

Section 6 - Construction Materials

Construction Materials description: CALICHE

Construction Materials source location attachment:

Warren_205H_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.)**

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: WARREN FED COM **Well Number:** 205H

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:** 205H

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_205H_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_205H_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:** 205H

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:

Warren_205H_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:

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: WARREN FED COM **Well Number:** 205H

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 or bond: Agreement

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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:

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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:

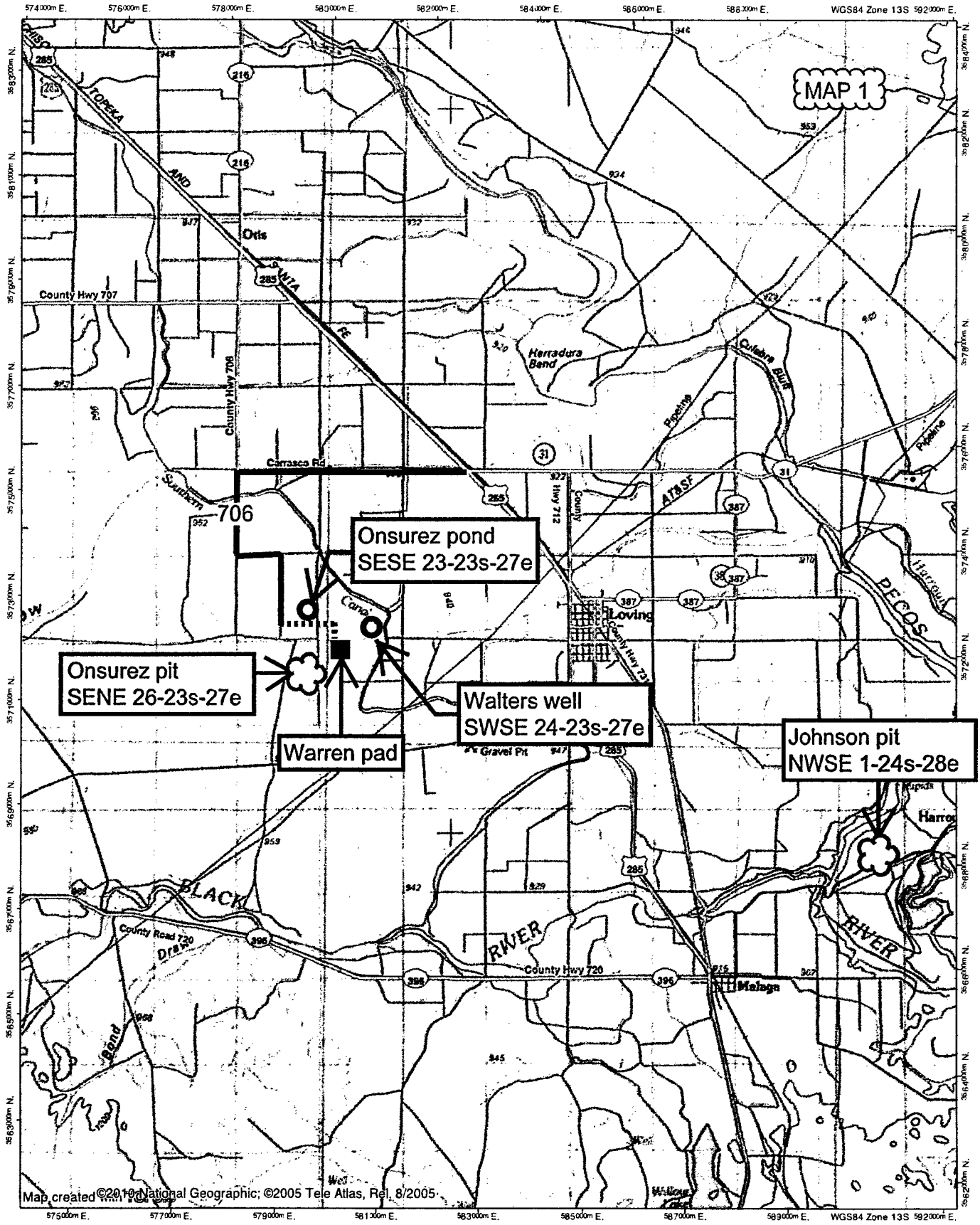
USFS Surface access bond number:

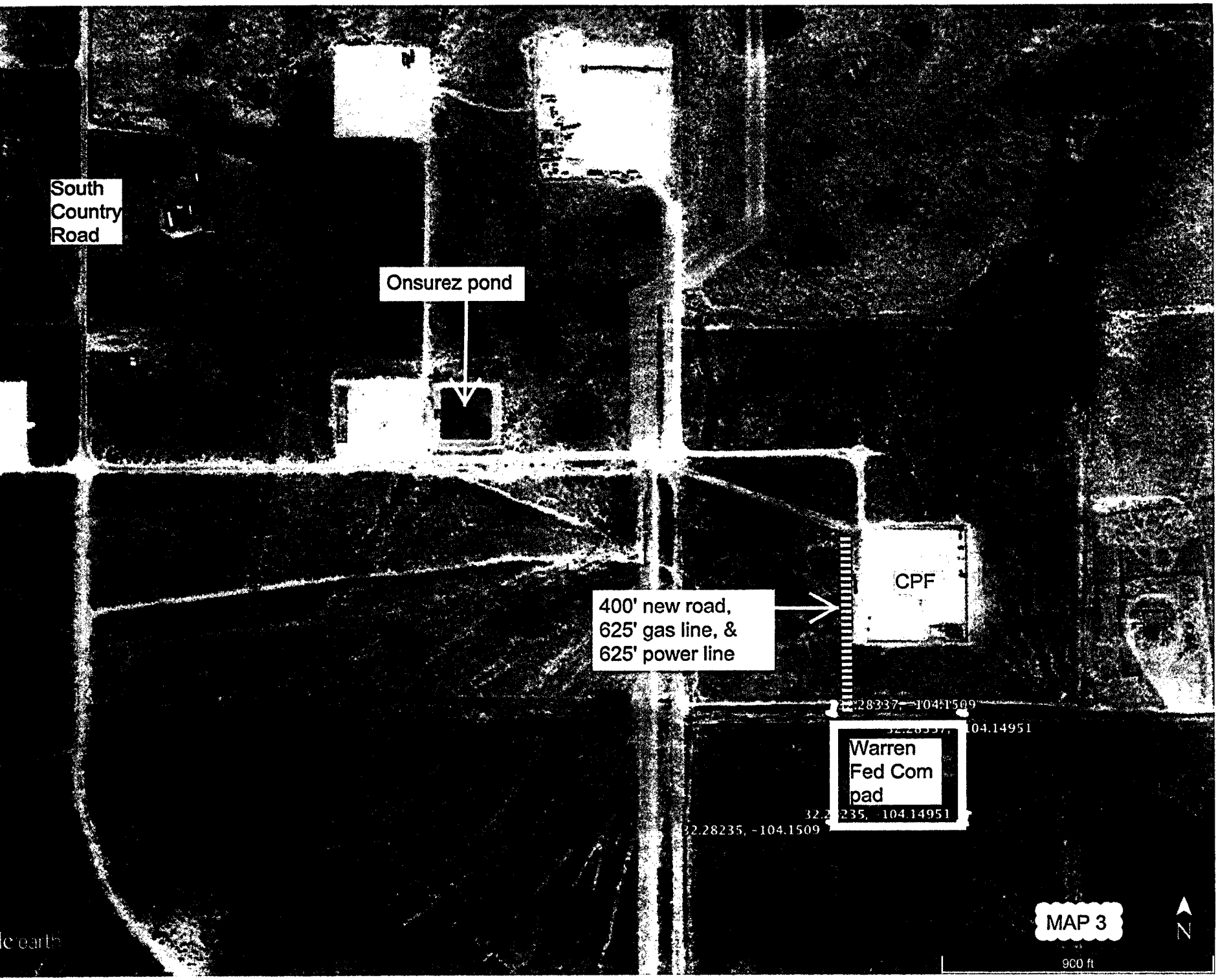
Section 12 - Other Information

Right of Way needed? NO **Use APD as ROW?**

ROW Type(s):

ROW Applications


TOPO! map printed on 03/16/17 from "Untitled.tpo"
MAP 1
Onsurez pond
SESE 23-23s-27e
Onsurez pit
SENE 26-23s-27e
Warren pad
Walters well
SWSE 24-23s-27e
Johnson pit
NWSE 1-24s-28e
Otis
County Hwy 707
Carrasco Rd
Southern
706
Herradura Bend
Culebra Bluff
Pipeline
ATSF
Loving
County Hwy 712
County Hwy 73
PECOS
RIVER
BLACK
County Road 720
County Hwy 720
Malaga
Gravel Pit
Harroun
Map created ©2010 National Geographic; ©2005 Tele Atlas, Rel. 8/2005
WGS84 Zone 13S

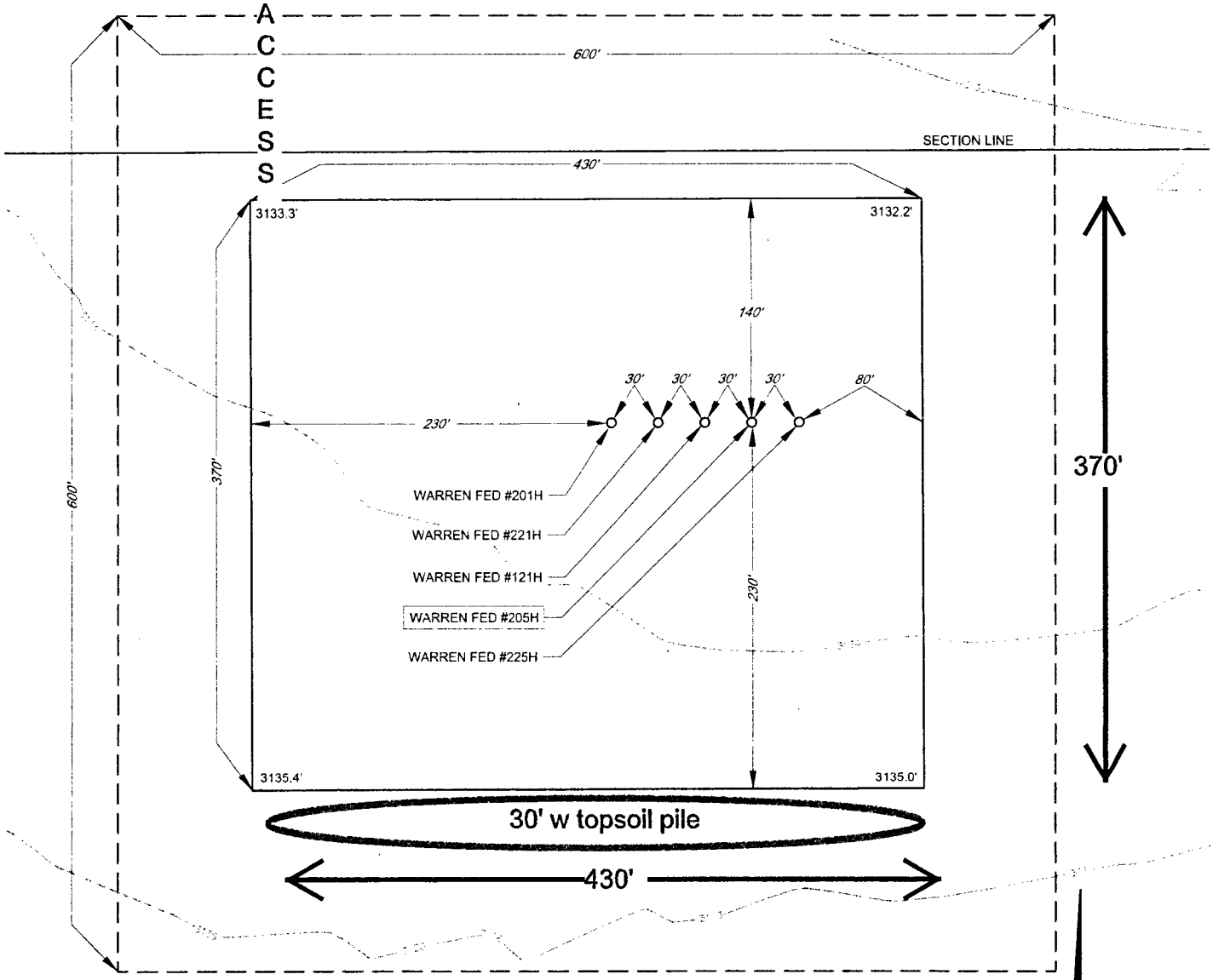

South Country Road
Onsurez pond
CPF
400' new road, 625' gas line, & 625' power line
Warren Fed Com pad
32.28235, -104.1509
32.28235, 104.14951
MAP 3
N
900 ft

Matador PRODUCTION COMPANY

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 #205H

#205H LATITUDE N 32.2828226 #205H LONGITUDE W 104.1493506

-N-

LEGEND

ARCH SITE

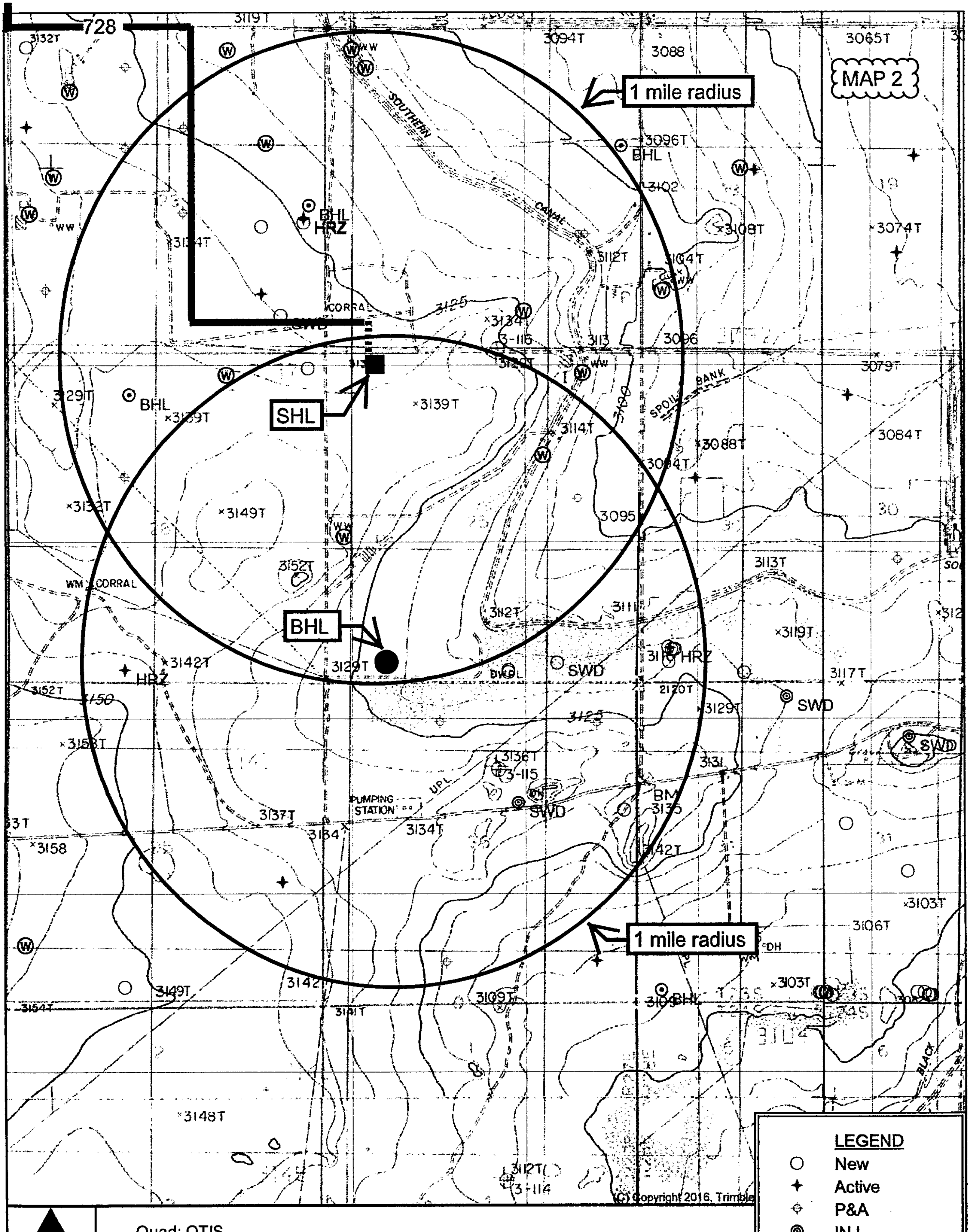
SCALE: 1" = 100'

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

THIS PROPOSED PAD SITE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY.

TOPOGRAPHIC
LOYALTY INNOVATION LEGACY
1400 EVERMAN PARKWAY, Ste. 197 • FT. WORTH, TEXAS 76140
TELEPHONE: (817) 744-7512 • FAX (817) 744-7548
2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743
WWW.TOPOGRAPHIC.COM

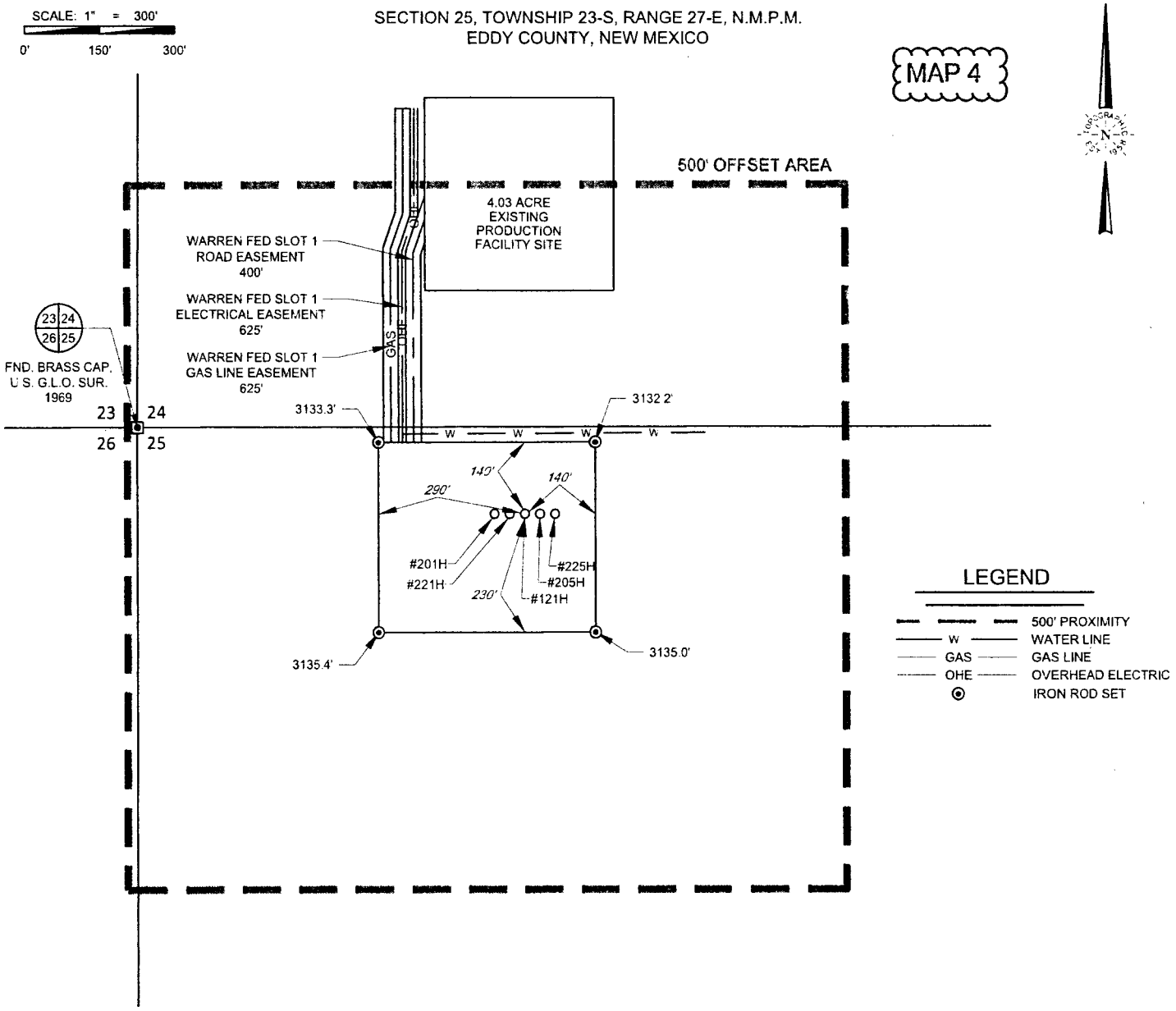

728
MAP 2
1 mile radius
1 mile radius
SHL
BHL
HRZ
SWD
SOUTHERN
CANAL
SPOIL BANK
CORRAL
WM CORRAL
PUMPING STATION
3125
3150
3094T
3088
3065T
3096T
3102
3108T
3074T
3112T
3104T
3134
3-115
3113
3096
3129T
3079T
3139T
3129T
3149T
3114T
3088T
3084T
3094T
3095
3132T
3152T
3113T
3112T
3111
3119T
3142T
3117T
3120T
3129T
3131
3136T
3158T
3137T
3134
3134T
3142T
3158
3103T
3106T
3142
3149T
3109T
3141T
3154T
3148T
3112T
3-114
LEGEND
New
Active
P&A
INJ
(C) Copyright 2016, Trimble
Quad: OTIS

SCALE: 1" = 300'

0' 150' 300'

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

MAP 4



MICHAEL B. BROWN
NEW MEXICO
18329
PROFESSIONAL SURVEYOR

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

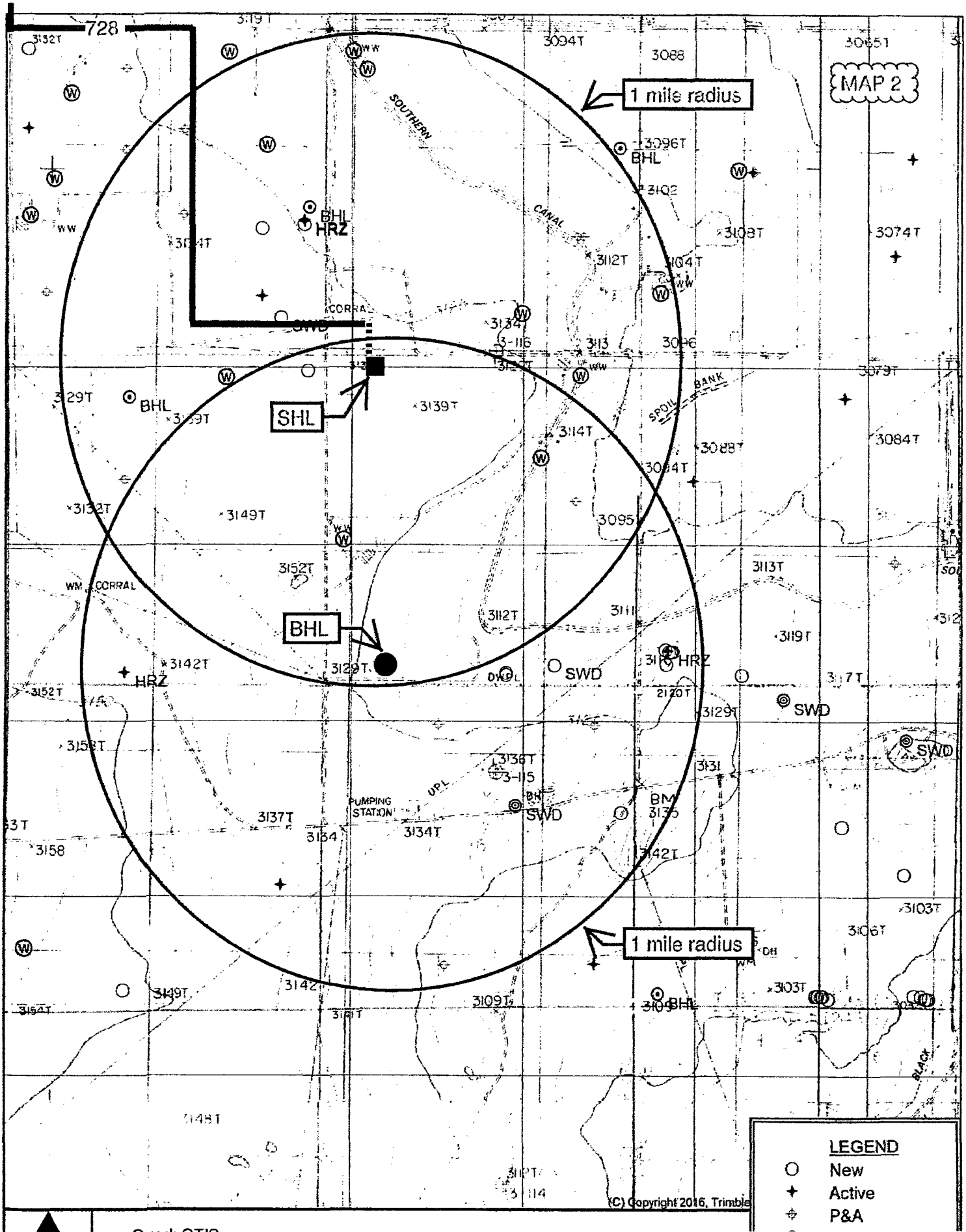
Matador PRODUCTION COMPANY

TOPOGRAPHIC
LOYALTY INNOVATION LEGACY

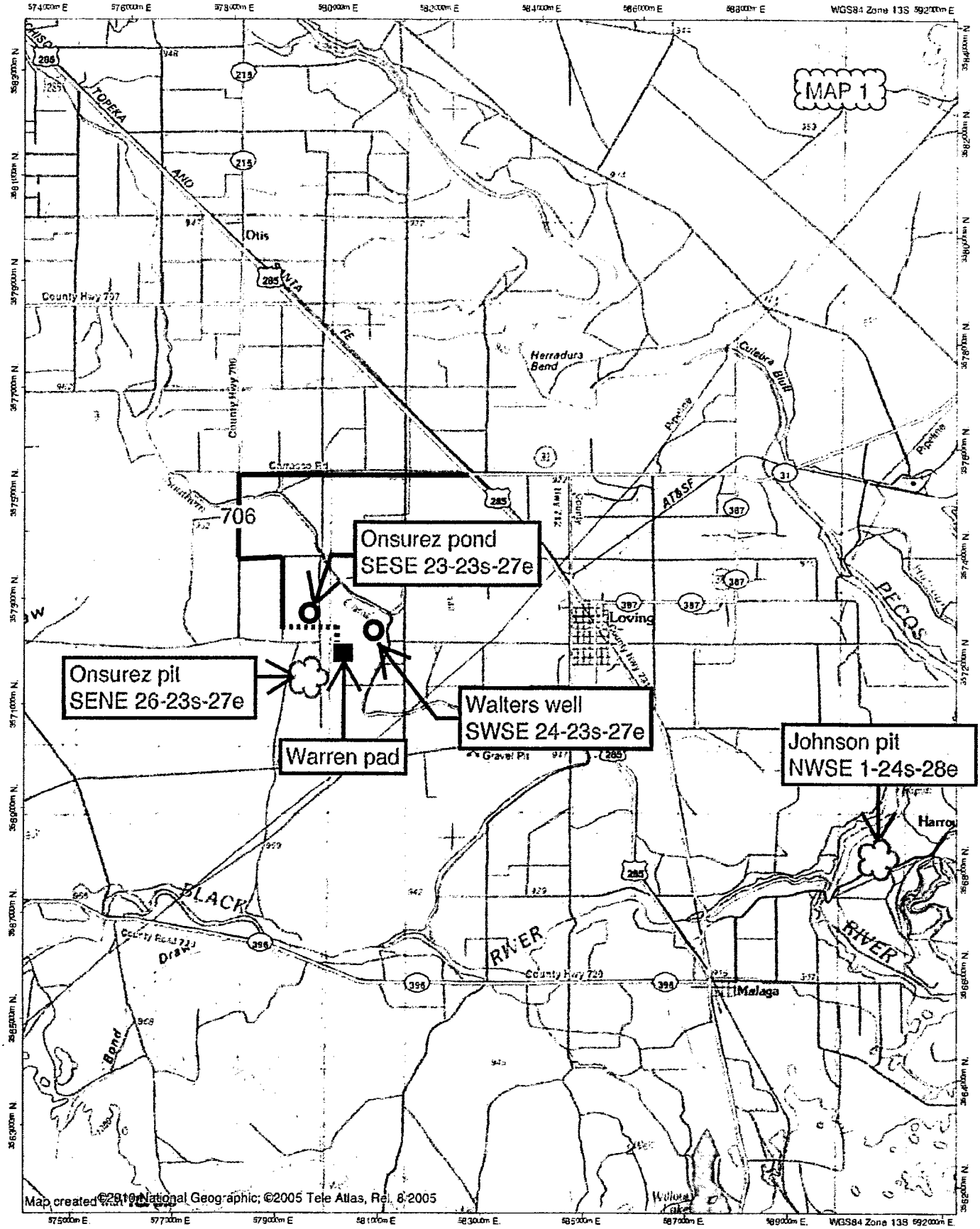
1400 EVERMAN PARKWAY, Ste. 197 • FT. WORTH, TEXAS 76140
TELEPHONE (817) 744-7512 • FAX (817) 744-7548
2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
TELEPHONE (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743
WWW.TOPOGRAPHIC.COM

WARREN FED COM	REVISION:	
	A.V.F.	08/05/2016
PROXIMITY MAP	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

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 RESOURCES, INC. 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.


728
1 mile radius
MAP 2
SHL
BHL
1 mile radius
SOUTHERN CANAL
SPOIL BANK
CORRAL
PUMPING STATION
UPL
BLACK
BHL
HRZ
SWD
LEGEND
New
Active
P&A
(C) Copyright 2016, Trimble

TOPO! map printed on 03/16/17 from "Untitled.tpo"



NATIONAL

0.0 0.5 1.0 1.5 2.0 2.5 3.0 miles

TN & MN

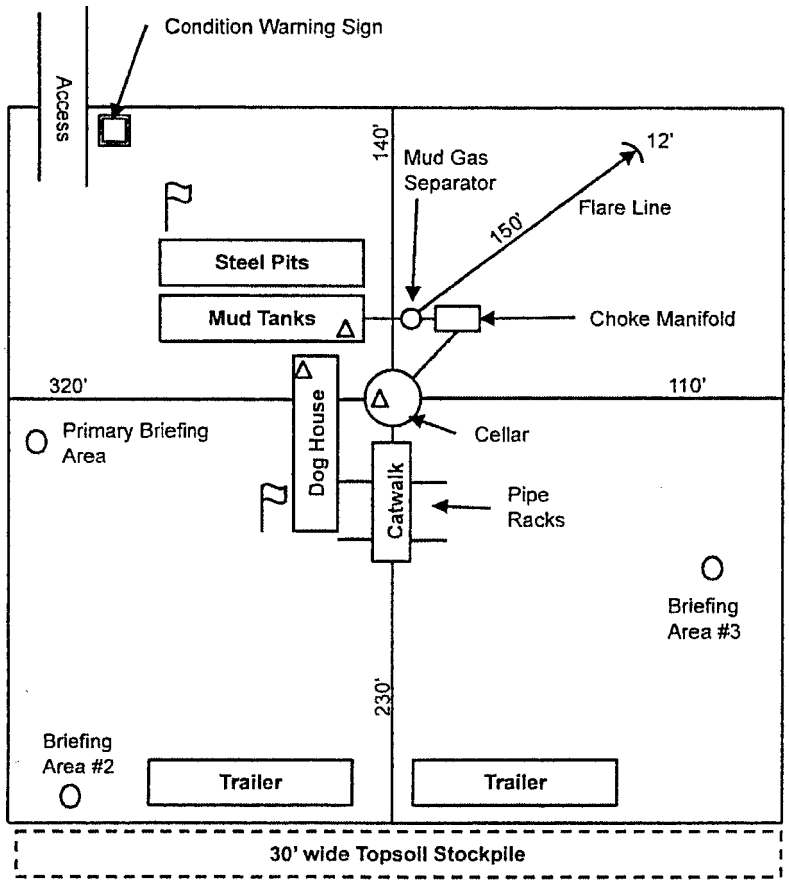
Rig Diagram

Warren Fed Com 205H
SHL 170' FNL & 800' FWL
25-23S-27E Eddy County, NM

Wind Direction Indicator

H2S Monitors

Briefing Areas



North

Prevailing Wind Out of the South

March 24, 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 205H 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.

Brian Wood

March 24, 2017

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Brian Wood

Matador Production Company
Warren Fed Com 205H
SHL 170' FNL & 800' FWL Sec. 25
BHL 240' FSL & 990' FWL Sec. 25
T. 23 S., R. 27 E., Eddy County, NM

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 ½ 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.

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 ≈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

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 24th 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 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:

Decribe 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):

AFMSS

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: