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Form 3160-3
(June 2015)

MAY 13 2019

DISTRICT II-ARTESIA O.C.D.

FORM APPROVED
OMB No. 1004-0137
Expires: January 31, 2018

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.
NMNM134868

6. If Indian, Allotee or Tribe Name

1a. Type of work: ☑ DRILL ☐ REENTER

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

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

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

8. Lease Name and Well No.
LEATHERNECK FED COM
132H 325670

2. Name of Operator
MATADOR PRODUCTION COMPANY 228937

9. API Well No.
30-015-46002

3a. Address
5400 LBJ Freeway, Suite 1500 Dallas TX 75240

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

10. Field and Pool, or Exploratory
~~RUSSELL~~ Avalon BONE SPRING 3713

4. Location of Well *(Report location clearly and in accordance with any State requirements.*)*
At surface SWNW / 1540 FNL / 236 FWL / LAT 32.5475068 / LONG -104.1217858
At proposed prod. zone SENE / 1981 FNL / 240 FEL / LAT 32.5462318 / LONG -104.0893883

11. Sec., T. R. M. or Blk. and Survey or Area
SEC 30 / T20S / R29E / NMP

14. Distance in miles and direction from nearest town or post office*	12. County or Parish	13. State
11 miles	EDDY	NM

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No of acres in lease	17. Spacing Unit dedicated to this well
236 feet	73.18	316.84

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. in file
30 feet	9079 feet / 19040 feet	FED: NMB001079

21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*	23. Estimated duration
3240 feet	08/01/2018	90 days

24. Attachments

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

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

25. Signature	Name *(Printed/Typed)*	Date
(Electronic Submission)	Brian Wood / Ph: (505)466-8120	06/14/2018

Title
President

Approved by *(Signature)*	Name *(Printed/Typed)*	Date
(Electronic Submission)	Cody Layton / Ph: (575)234-5959	05/09/2019

Title	Office
Assistant Field Manager Lands & Minerals	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.

APPROVED WITH CONDITIONS

Approval Date: 05/09/2019

RWP 5-20-19

(Continued on page 2)

*(Instructions on page 2)

INSTRUCTIONS

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

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

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

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

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

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

ITEM 24: If the proposal will involve hydraulic fracturing operations, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The Privacy Act of 1974 and regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.
AUTHORITY: 30 U.S.C. 181 et seq., 25 U.S.C. 396; 43 CFR 3160
PRINCIPAL PURPOSES: The information will be used to: (1) process and evaluate your application for a permit to drill a new oil, gas, or service wen or to reenter a plugged and abandoned well; and (2) document, for administrative use, information for the management, disposal and use of National Resource Lands and resources including (a) analyzing your proposal to discover and extract the Federal or Indian resources encountered; (b) reviewing procedures and equipment and the projected impact on the land involved; and (c) evaluating the effects of the proposed operation on the surface and subsurface water and other environmental impacts.
ROUTINE USE: Information from the record and/or the record win be transferred to appropriate Federal, State, and local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecution, in connection with congressional inquiries and for regulatory responsibilities.
EFFECT OF NOT PROVIDING INFORMATION: Filing of this application and disclosure of the information is mandatory only if you elect to initiate a drilling or reentry operation on an oil and gas lease.

The Paperwork Reduction Act of 1995 requires us to inform you that:
The BLM conects this information to anow evaluation of the technical, safety, and environmental factors involved with drilling for oil and/or gas on Federal and Indian oil and gas leases. This information will be used to analyze and approve applications. Response to this request is mandatory only if the operator elects to initiate drilling or reentry operations on an oil and gas lease. The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

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

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Additional Operator Remarks

Location of Well

1. SHL: SWNW / 1540 FNL / 236 FWL / TWSP: 20S / RANGE: 29E / SECTION: 30 / LAT: 32.5475068 / LONG: -104.1217858 (TVD: 0 feet, MD: 0 feet)
   PPP: SWNW / 1540 FNL / 236 FWL / TWSP: 20S / RANGE: 29E / SECTION: 30 / LAT: 32.5475068 / LONG: -104.1217858 (TVD: 0 feet, MD: 0 feet)
   PPP: SENW / 1964 FNL / 1225 FWL / TWSP: 20S / RANGE: 29E / SECTION: 30 / LAT: 32.546307 / LONG: -104.118591 (TVD: 9079 feet, MD: 10043 feet)
   BHL: SENE / 1981 FNL / 240 FEL / TWSP: 20S / RANGE: 29E / SECTION: 29 / LAT: 32.5462318 / LONG: -104.0893883 (TVD: 9079 feet, MD: 19040 feet)

BLM Point of Contact

Name: Katrina Ponder
Title: Geologist
Phone: 5752345969
Email: kponder@blm.gov

Review and Appeal Rights

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

Leatherneck 30 Fed Com #132H	N/A	UL-E Sec 30 T20S R29E	1540' FNL 236' FWL	+/-1400	~30 days	Flare ~30 days on flowback before turn into TB. Time est. depends on sales connect and well cleanup
Leatherneck 30 Fed Com #202H	N/A	UL-E Sec 30 T20S R29E	1510' FNL 236' FWL	+/-1200	~30 days	Flare ~30 days on flowback before turn into TB. Time est. depends on sales connect and well cleanup
Leatherneck 30 Fed Com #222H	N/A	UL-E Sec 30 T20S R29E	1480' FNL 236' FWL	+/-1200	~30 days	Flare ~30 days on flowback before turn into TB. Time est. depends on sales connect and well cleanup

Gathering System and Pipeline Notification

The wells will be connected to a production facility after flowback operations are complete so long as the gas transporter system is in place. The gas produced from the production facility should be connected to a Longwood Midstream Delaware, LLC. It will require ~1000' of pipeline to connect the facility to the Longwood Midstream Delaware, LLC. Matador Production Company periodically provides a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future to Longwood Midstream Delaware, LLC. If changes occur that will affect the drilling and completion schedule, Matador Production Company will notify Longwood Midstream Delaware, LLC. Additionally, the gas produced from the well will be processed at a processing plant further downstream and, although unanticipated, any issues with downstream facilities could cause flaring at the wellhead. The actual flow of the gas will be based on compression operating parameters and gathering system pressures measured when the well starts producing.

Flowback Strategy

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

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

Alternatives to Reduce Flaring

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

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

PECOS DISTRICT
DRILLING OPERATIONS
CONDITIONS OF APPROVAL

OPERATOR'S NAME:	**Matador Production Company**
LEASE NO.:	**NMNM134868**
WELL NAME & NO.:	**Leatherneck Fed Com 132H**
SURFACE HOLE FOOTAGE:	**1540' FNL & 236' FWL**
BOTTOM HOLE FOOTAGE	**1981' FNL & 240' FEL**
LOCATION:	**Section 30, T 20S, R 29E, NMPM**
COUNTY:	**Eddy County, New Mexico**

H2S	◉ Yes	○ No	
Potash	◉ None	○ Secretary	○ R-111-P
Cave/Karst Potential	○ Low	○ Medium	◉ High
Variance	○ None	○ Flex Hose	◉ Other
Wellhead	○ Conventional	◉ Multibowl	○ Both
Other	☑ 4 String Area	☑ Capitan Reef	☐ WIPP
Other	☐ Fluid Filled	☐ Cement Squeeze	☐ Pilot Hole
Special Requirements	☐ Water Disposal	☑ COM	☐ Unit

A. HYDROGEN SULFIDE

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

B. CASING

1. The **20"** surface casing shall be set at approximately **400'** (a minimum of 25' into the Rustler Anhydrite and above the salt) and cemented to surface.
   a. **If cement does not circulate to 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 **6 hours** after pumping cement, ideally between 8-10 hours after completing the cement job.
   b. WOC time for a primary cement job will be a minimum of **8 hours** or **500 psi** compressive strength, whichever is greater. This is to include the lead cement.
   c. If cement falls back, remedial cementing will be done prior to drilling out that string.
   d. WOC time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 psi compressive strength, whichever is greater.

2. The **13-3/8"** intermediate casing shall be set at approximately **1200'** and cemented to surface.
   a. **If cement does not circulate to surface,** see B.1.a, c & d.
   b. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to high cave/karst potential.
3. The **9-5/8"** intermediate casing shall be cemented to surface.
   a. **If cement does not circulate to surface,** see B.1.a, c & d.
   b. Operator has proposed a contingency DV tool, the depth may be adjusted as long as the cement is changed proportionally.
      i. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
      ii. Second stage above DV tool: Cement to surface. If cement does not circulate contact the appropriate BLM office.
4. The **7"** production casing shall be cemented to at least **50'** above the Capitan Reef. Operator shall provide method of verification.

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).
2. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **2000 (2M)** psi.
3. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the 9-5/8" casing shoe shall be **5000 (5M)** psi.

D. SPECIAL REQUIREMENTS

1. Capitan Reef Requirements: If lost circulation (50% or greater) occurs below the Base of the Salt, the operator shall do the following:
   a. Daily drilling reports from the Base of the Salt to the setting of the intermediate casing are to be submitted to the BLM CFO engineering staff via e-mail by 0800 hours each morning. Any lost circulation encountered is to be recorded on these drilling reports. The daily drilling report should show mud volume per shift/tour. Failure to submit these reports will result in an Incidence of Non-Compliance being issued for failure to comply with the Conditions of Approval. If not already planned, the operator shall run a caliper survey for the 12-1/4" well bore and submit to the appropriate BLM office.
2. The operator will submit a Communitization Agreement to the Carlsbad Field Office, 620 E Greene St. Carlsbad, New Mexico 88220, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases

subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.

a. The well sign on location shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

DR 4/30/2019

GENERAL REQUIREMENTS

1. 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

2. 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.

3. 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.

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

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.

2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.

3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.

4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.

5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.

7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

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

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.

2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.

3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.

4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
   a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
   b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
   c. Manufacturer representative shall install the test plug for the initial BOP test.
   d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
   e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
   a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).

b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time, except the casing pressure test can be initiated immediately after bumping the plug (only applies to single stage cement jobs).
c. The tests shall be done by an independent service company utilizing a test plug. The results of the test shall be reported to the appropriate BLM office.
d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
e. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
f. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes. This test shall be performed prior to the test at full stack pressure.
g. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

C. DRILLING MUD

1. 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

2. 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.

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

PECOS DISTRICT
SURFACE USE
CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Matador Production Company
LEASE NO.:	NMNM134868
WELL NAME & NO.:	Leatherneck Fed Com 132H
SURFACE HOLE FOOTAGE:	1540'/N & 236'/W
BOTTOM HOLE FOOTAGE	1981'/N & 240'/E
LOCATION:	Section 30, T.20 S., R.29 E., NMPM
COUNTY:	Eddy County, New Mexico

TABLE OF CONTENTS

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

I. GENERAL PROVISIONS

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

II. PERMIT EXPIRATION

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

III. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

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

IV. NOXIOUS WEEDS

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

V. SPECIAL REQUIREMENT(S)

Cave/Karst Surface Mitigation

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

Construction:

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

No Blasting:

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

Pad Berming:

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

Tank Battery Liners and Berms:

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

Leak Detection System:

A method of detecting leaks is required. The method could incorporate gauges to measure loss, situating 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 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:
The operator will perform annual pressure monitoring 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.

Hydrology:
The entire well pad will be bermed to prevent oil, salt, and other chemical contaminants from leaving the well pad. The compacted berm shall be constructed at a minimum of 12 inches with impermeable mineral material (e.g. caliche). Topsoil shall not be used to construct the berm. No water flow from the uphill side(s) of the pad shall be allowed to enter the well pad. The integrity of the berm shall be maintained around the surfaced pad throughout the life of the well and around the downsized pad after interim reclamation has been completed. Any water erosion that may occur due to the construction of the well pad during the life of the well will be quickly corrected and proper measures will be taken to prevent future erosion. Stockpiling of topsoil is required. The top soil shall be stockpiled in an appropriate location to prevent loss of soil due to water or wind erosion

and not used for berming or erosion control. If fluid collects within the bermed area, the fluid must be vacuumed into a safe container and disposed of properly at a state approved facility.

Tank battery locations will be lined and bermed. A 20 mil permanent liner will be installed with a 4 oz. felt backing to prevent tears or punctures. Tank battery berms must be large enough to contain 1 ½ times the content of the largest tank or 24 hour production, whichever is greater. Automatic shut off, check valves, or similar systems will be installed for tanks to minimize the effects of catastrophic line failures used in production or drilling.

Electric Lines: Any water erosion that may occur due to the construction of overhead electric line and during the life of the power line will be quickly corrected and proper measures will be taken to prevent future erosion.

Livestock Watering Requirement

Structures that provide water to livestock, such as windmills, pipelines, drinking troughs, and earthen reservoirs, will be avoided by moving the proposed action.

VI. CONSTRUCTION

A. NOTIFICATION

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

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

B. TOPSOIL

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

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

C. CLOSED LOOP SYSTEM

Tanks are required for drilling operations: No Pits.

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

D. FEDERAL MINERAL MATERIALS PIT

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

E. WELL PAD SURFACING

Surfacing of the well pad is not required.

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

F. EXCLOSURE FENCING (CELLARS & PITS)

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

G. ON LEASE ACCESS ROADS

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

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

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

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

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

Ditching
Ditching shall be required on both sides of the road.

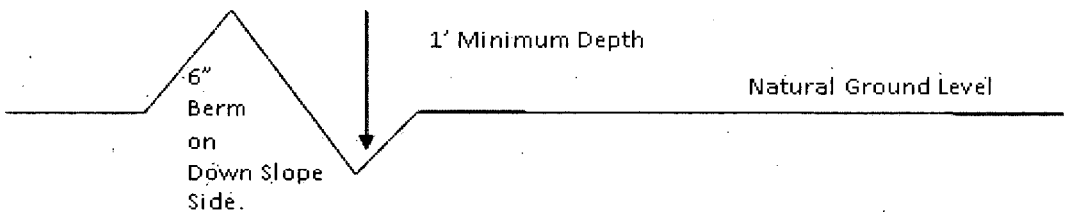
Turnouts
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

Drainage

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

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

Cross Section of a Typical Lead-off Ditch



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

Formula for Spacing Interval of Lead-off Ditches

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

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

Cattle guards

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

Fence Requirement

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

Public Access

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

Construction Steps

1. Salvage topsoil
2. Construct road
3. Redistribute topsoil
4. Revegetate slopes

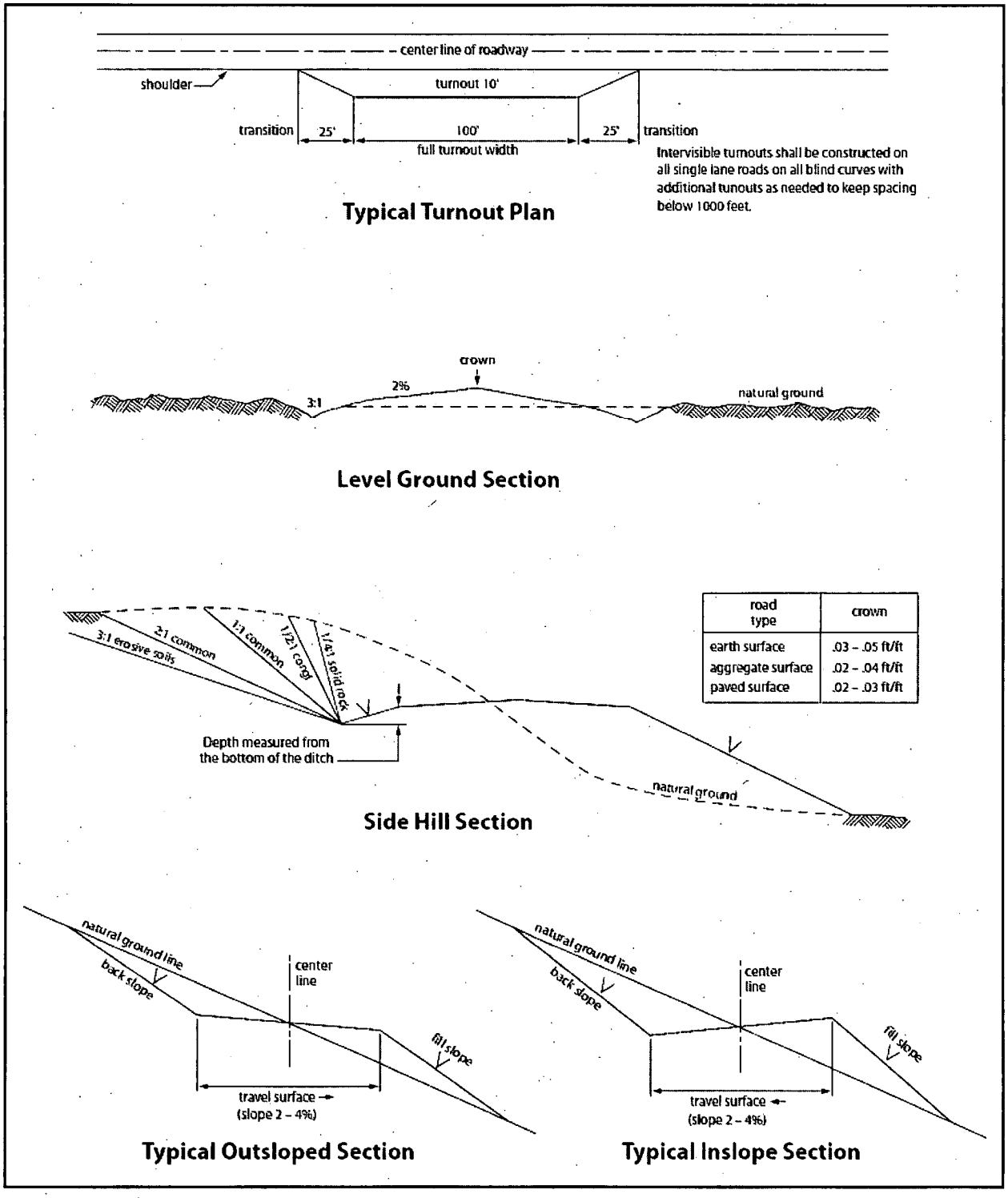


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

VII. PRODUCTION (POST DRILLING)

A. WELL STRUCTURES & FACILITIES

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

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

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

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

Containment Structures

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

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

VIII. INTERIM RECLAMATION

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

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

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

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

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

IX. FINAL ABANDONMENT & RECLAMATION

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

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

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

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

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

APD ID: 10400031252
Submission Date: 06/14/2018
Operator Name: MATADOR PRODUCTION COMPANY
Federal/Indian APD: FED
Well Name: LEATHERNECK FED COM
Well Number: 132H
Well Type: OIL WELL
Well Work Type: Drill

Highlighted data reflects the most recent changes
Show Final Text

Application

Section 1 - General

APD ID: 10400031252
Tie to previous NOS?
Submission Date: 06/14/2018
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: NMNM134868
Lease Acres: 73.18
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:

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
Master Development Plan name:
Well in Master SUPO? NO
Master SUPO name:
Well in Master Drilling Plan? NO
Master Drilling Plan name:

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: LEATHERNECK FED COM **Well Number:** 132H

Well Name: LEATHERNECK FED COM **Well Number:** 132H **Well API Number:**

Field/Pool or Exploratory? Field and Pool **Field Name:** RUSSELL; BONE SPRING **Pool Name:**

Is the proposed well in an area containing other mineral resources? USEABLE WATER,NATURAL GAS,CO2,OIL

Describe other minerals:

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

Type of Well Pad: MULTIPLE WELL **Multiple Well Pad Name:** LEATHERNECK FED COM **Number:** SLOT 2

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

Well Work Type: Drill

Well Type: OIL WELL

Describe Well Type:

Well sub-Type: INFILL

Describe sub-type:

Distance to town: 11 Miles **Distance to nearest well:** 30 FT **Distance to lease line:** 236 FT

Reservoir well spacing assigned acres Measurement: 316.84 Acres

Well plat: LN_132H_C102_etal_20180614125611.pdf

Well work start Date: 08/01/2018 **Duration:** 90 DAYS

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83 **Vertical Datum:** NAVD88

Survey number: 19642

	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD
SHL Leg #1	1540	FNL	236	FWL	20S	29E	30	Aliquot SWNW	32.5475068	-104.1217858	EDDY	NEW MEXICO	NEW MEXICO	F	NMNM 134868	3240	0	0
KOP Leg #1	1540	FNL	236	FWL	20S	29E	30	Aliquot SWNW	32.5475068	-104.1217858	EDDY	NEW MEXICO	NEW MEXICO	F	NMNM 134868	-5261	8532	8501

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: LEATHERNECK FED COM **Well Number:** 132H

	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
PPP Leg #1	1540	FNL	236	FWL	20S	29E	30	Aliquot SWNW	32.5475068	-104.1217858	EDDY	NEW MEXICO	NEW MEXICO	F	NMNM 134868	3240	0	0
PPP Leg #1	1964	FNL	1225	FWL	20S	29E	30	Aliquot SENW	32.5463007	-104.118591	EDDY	NEW MEXICO	NEW MEXICO	F	NMNM 0003677	-5839	10043	9079
EXIT Leg #1	1981	FNL	240	FEL	20S	29E	29	Aliquot SENE	32.5462318	-104.0893883	EDDY	NEW MEXICO	NEW MEXICO	F	NMNM 0003677	-5839	19040	9079
BHL Leg #1	1981	FNL	240	FEL	20S	29E	29	Aliquot SENE	32.5462318	-104.0893883	EDDY	NEW MEXICO	NEW MEXICO	F	NMNM 0003677	-5839	19040	9079

Drilling Plan

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical Depth	Measured Depth	Lithologies	Mineral Resources	Producing Formation
1	QUATERNARY	3239	0	0	ALLUVIUM	USEABLE WATER	No
2	RUSTLER ANHYDRITE	2799	440	440		NONE	No
3	YATES	2445	794	794	OTHER : Carbonate	NONE	No
4	CAPITAN REEF	2014	1225	1225		USEABLE WATER	No
5	CHERRY CANYON	264	2975	2983	SANDSTONE	NATURAL GAS,CO2,OIL	No
6	BRUSHY CANYON	-805	4044	4063	SANDSTONE	NATURAL GAS,CO2,OIL	No
7	BONE SPRING	-2376	5615	5643	LIMESTONE	NATURAL GAS,CO2,OIL	No
8	UPPER AVALON SHALE	-2622	5861	5889		NATURAL GAS,CO2,OIL	No
9	---	-2784	6023	6054	OTHER : Avalon Carbonate	NATURAL GAS,CO2,OIL	No
10	---	-2982	6221	6253	SHALE,OTHER : Lower Avalon	NATURAL GAS,CO2,OIL	No

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: LEATHERNECK FED COM **Well Number:** 132H

Formation ID	Formation Name	Elevation	True Vertical Depth	Measured Depth	Lithologies	Mineral Resources	Producing Formation
11	BONE SPRING 1ST	-3088	6327	6359	OTHER : Carbonate	NATURAL GAS,CO2,OIL	No
12	BONE SPRING 1ST	-3556	6795	6827	SANDSTONE	NATURAL GAS,CO2,OIL	No
13	BONE SPRING 2ND	-3792	7031	7063	OTHER : Carbonate	NATURAL GAS,CO2,OIL	No
14	BONE SPRING 2ND	-4184	7423	7455	SANDSTONE	NATURAL GAS,CO2,OIL	No
15	BONE SPRING 3RD	-4585	7824	7856	OTHER : Carbonate	NATURAL GAS,CO2,OIL	No
16	BONE SPRING 3RD	-5434	8673	8707	SANDSTONE	NATURAL GAS,CO2,OIL	Yes

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M **Rating Depth:** 12000

Equipment: A 12,000' 5000-psi BOP stack consisting of 3 rams with 2 pipe rams, 1 blind ram, and 1 annular preventer will be used below surface casing to TD. See attached BOP, choke manifold, co-flex hose, and speed head 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 drill this well using a co-flex line between the BOP and choke manifold. Certification for proposed co-flex hose is attached. Manufacturer does not require the hose to be anchored. If the specific hose is not available, then one of equal or higher rating will be used. Matador is requesting a variance to use a speed head for setting the intermediate (9-5/8") casing. In the case of running a speed head with landing mandrel for 9-5/8" casing, BOP test pressures after setting surface casing will be 250 psi low and 5000 psi high. Annular will be tested to 250 psi low and 2500 psi high before drilling below the surface shoe. The BOPs will not be tested again unless any flanges are separated. A diagram of the speed head is attached.

Testing Procedure: Pressure tests will be conducted before drilling out from under all casing strings. BOP will be inspected and operated as required in Onshore Order 2. Kelly cock and sub equipped with a full opening valve sized to fit the drill pipe and collars will be available on the rig floor in the open position. A third party company will test the BOPs. After setting surface casing, and before drilling below the surface casing shoe, BOPE will be tested to 250 psi low and 2000 psi high. Annular will be tested to 250 psi low and 1000 psi high. After setting 9-5/8" casing, pressure tests will be made to 250 psi low and 5000 psi high. Annular will be tested to 250 psi low and 2500 psi high.

Choke Diagram Attachment:

LN_132H_Choke_20180614130622.pdf

BOP Diagram Attachment:

LN_132H_BOP_coflex_20180614130639.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	
1	SURFACE	26	20.0	NEW	API	N	0	400	0	400	3240		400	J-55	94	OTHER - BTC	1.125	1.125	DRY	1.8	DRY	1.
2	INTERMEDIATE	17.5	13.375	NEW	API	N	0	1200	0	1200	3240		1200	J-55	54.5	OTHER - BTC	1.125	1.125	DRY	1.8	DRY	1.
3	INTERMEDIATE	12.25	9.625	NEW	API	N	0	3100	0	3092	3240		3100	J-55	40	OTHER - BTC	1.125	1.125	DRY	1.8	DRY	1.
4	PRODUCTION	8.75	5.5	NEW	API	N	0	19040	0	9079			19040	P-110	20	OTHER - DWC/C	1.125	1.125	DRY	1.8	DRY	1.

Casing Attachments

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

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

LN_132H_Casing_Design_Assumptions_4string_20180614130712.pdf

Casing Attachments

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

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

LN_132H_Casing_Design_Assumptions_4string_20180614130745.pdf

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

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

LN_132H_Casing_Design_Assumptions_4string_20180614130820.pdf

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

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

LN_132H_Casing_Design_Assumptions_4string_20180614130846.pdf

5.5_Inch_Casing_Spec_20180614130854.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	400	892	1.35	14.8	1204	100	Class C	5% NaCl + LCM
INTERMEDIATE	Lead		0	1200	619	1.78	13.5	1102	100	Class C	Bentonite + 1% CaCl2 + 8% NaCl + LCM
INTERMEDIATE	Tail		0	1200	309	1.35	14.8	417	100	Class C	5% NaCl + LCM
INTERMEDIATE	Lead		0	3100	695	1.78	13.5	1237	100	Class C	Bentonite + 2% CaCL2 + 3% NaCl + LCM
INTERMEDIATE	Tail		0	3100	288	1.35	14.4	389	100	Class C	5% NaCl + LCM
PRODUCTION	Lead		0	19040	788	2.25	11.5	1773	35	TXI	Fluid Loss + Dispersant + Retarder + LCM
PRODUCTION	Tail		0	19040	2907	1.35	13.2	3924	35	TXI	Fluid Loss + Dispersant + Retarder + LCM

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

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

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

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

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

Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	400	OTHER : Fresh water mud	8.4	8.4							
3100	19040	OTHER : Fresh water & cut brine	9	9							
400	1200	OTHER : Brine water	10	10							
1200	3100	OTHER : Fresh water	8.4	8.6							

Section 6 - Test, Logging, Coring

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

A 2-person mud logging program will be used from 3,100' 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

Coring operation description for the well:

No core or drill stem test is planned.

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 4523 **Anticipated Surface Pressure:** 2525.62

Anticipated Bottom Hole Temperature(F): 150

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:

LN_132H_Slot2_H2S_plan_20180614131432.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

LN_132H_Horizontal_Drill_Plan_20180614131445.pdf

Other proposed operations facets description:

Other proposed operations facets attachment:

LN_132H_Speedhead_Specs_20180614131506.pdf

LN_132H_General_Drill_Plan_011419_20190115101331.pdf

Other Variance attachment:

LN_132H_DVT_Tool_Variance_20180614131827.pdf

SUPO

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

LN_132H_Road_Map_20180614132303.pdf

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

ROW ID(s)

ID:

Do the existing roads need to be improved? NO

Existing Road Improvement Description:

Existing Road Improvement Attachment:

Section 2 - New or Reconstructed Access Roads

Will new roads be needed? YES

New Road Map:

LN_132H_New_Road_Map_20180614132324.pdf

New road type: RESOURCE

Length: 23.19 Feet **Width (ft.):** 30

Max slope (%): 0 **Max grade (%):** 1

Army Corp of Engineers (ACOE) permit required? NO

ACOE Permit Number(s):

New road travel width: 14

New road access erosion control: Crowned and ditched

New road access plan or profile prepared? NO

New road access plan attachment:

Access road engineering design? NO

Access road engineering design attachment:

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: Crowned and ditched

Road Drainage Control Structures (DCS) description: None

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:

LN_132H_Well_Map_20180614132429.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: A tank battery will be built on the Southeast side of the pad. Pipeline and power line plans have not been finalized.
Production Facilities map:

LN_132H_Production_Facilities_20180614132442.pdf

Section 5 - Location and Types of Water Supply

Water Source Table

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

Water source type: GW WELL

Describe type:

Source longitude:

Source latitude:

Source datum:

Water source permit type: PRIVATE CONTRACT

Source land ownership: PRIVATE

Water source transport method: TRUCKING

Source transportation land ownership: PRIVATE

Water source volume (barrels): 20000

Source volume (acre-feet): 2.577862

Source volume (gal): 840000

Water source and transportation map:

LN_132H_Water_Source_Map_20180614132455.pdf

Water source comments: Water will be trucked from two water wells (C 03570 and C 03607) on private land in NENENE and SENENE 24-21s-27e.
New water well? NO

New Water Well Info

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

Well target aquifer:

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

Aquifer comments:

Aquifer documentation:

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

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

New water well casing? **Used casing source:**

Drilling method: **Drill material:**

Grout material: **Grout depth:**

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

Well Production type: **Completion Method:**

Water well additional information:

State appropriation permit:

Additional information attachment:

Section 6 - Construction Materials

Construction Materials description: NM One Call (811) will be notified before construction starts. Top 6" of soil and brush will be stockpiled east of the pad. Pipe racks will be to the north. A closed loop drilling system will be used. Caliche will be hauled from an existing Constructors, Inc. pits on private land in NWNE 34-21s-27e and S2 13-22s-26e.
Construction Materials source location attachment:

LN_132H_Construction_Methods_20180614132623.pdf

Section 7 - Methods for Handling Waste

Waste type: DRILLING

Waste content description: Drill cuttings, mud, salts, and other chemicals)

Amount of waste: 1000 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: CRI's state approved (NM-01 -0006) disposal site

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? YES

Description of cuttings location Steel tanks on pad

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

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

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

WCuttings area liner

Cuttings area liner specifications and installation description

Section 8 - Ancillary Facilities

Are you requesting any Ancillary Facilities?: NO

Ancillary Facilities attachment:

Comments:

Section 9 - Well Site Layout

Well Site Layout Diagram:

LN_132H_Well_Site_Layout_20180614132638.pdf

Comments:

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance **Multiple Well Pad Name:** LEATHERNECK FED COM

Multiple Well Pad Number: SLOT 2

Recontouring attachment:

LN_132H_Interim_Reclamation_Diagram_20180614132718.pdf

LN_132H_Recontour_Plat_20180614132727.PDF

Drainage/Erosion control construction: Crowned and ditched

Drainage/Erosion control reclamation: Harrowed on the contour

Well pad proposed disturbance (acres): 3.46
Road proposed disturbance (acres): 0.016
Powerline proposed disturbance (acres): 0
Pipeline proposed disturbance (acres): 0
Other proposed disturbance (acres): 0
Total proposed disturbance: 3.476

Well pad interim reclamation (acres): 0.99
Road interim reclamation (acres): 0
Powerline interim reclamation (acres): 0
Pipeline interim reclamation (acres): 0
Other interim reclamation (acres): 0
Total interim reclamation: 0.99

Well pad long term disturbance (acres): 2.47
Road long term disturbance (acres): 0.016
Powerline long term disturbance (acres): 0
Pipeline long term disturbance (acres): 0
Other long term disturbance (acres): 0
Total long term disturbance: 2.486

Disturbance Comments:

Reconstruction method: Interim reclamation will shrink the pad by 0.99 acres by removing caliche and reclaiming the east side (100' x 430'), leaving 2.49 acres for 4 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's requirements.
Topsoil redistribution: 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.
Soil treatment: None

Existing Vegetation at the well pad:

Existing Vegetation at the well pad attachment:

Existing Vegetation Community at the road:

Existing Vegetation Community at the road attachment:

Existing Vegetation Community at the pipeline:

Existing Vegetation Community at the pipeline attachment:

Existing Vegetation Community at other disturbances:

Existing Vegetation Community at other disturbances attachment:

Non native seed used? NO

Non native seed description:

Seedling transplant description:

Will seedlings be transplanted for this project? NO

Seedling transplant description attachment:

Will seed be harvested for use in site reclamation? NO

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

Seed reclamation attachment:

Operator Contact/Responsible Official Contact Info

First Name:

Last Name:

Phone:

Email:

Seedbed prep:

Seed BMP:

Seed method:

Existing invasive species? NO

Existing invasive species treatment description:

Existing invasive species treatment attachment:

Weed treatment plan description: To BLM standards

Weed treatment plan attachment:

Monitoring plan description: To BLM standards

Monitoring plan attachment:

Success standards: To BLM satisfaction

Pit closure description: No pit

Pit closure attachment:

Section 11 - Surface Ownership

Disturbance type: NEW ACCESS ROAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

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

Disturbance type: WELL PAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

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

Disturbance type: EXISTING ACCESS ROAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

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

Section 12 - Other Information

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

ROW Type(s):

ROW Applications

SUPO Additional Information:

Use a previously conducted onsite? YES

Previous Onsite information: On site inspection was held with on May 4, 2016 with Jim Goodbar and Vance Wolf from the BLM. Matador will pay the Permian Basin programmatic agreement archaeology fund.

Other SUPO Attachment

LN_132H_SUPO_20180614132801.pdf

PWD

Section 1 - General

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

Section 2 - Lined Pits

Would you like to utilize Lined Pit PWD options? NO

Produced Water Disposal (PWD) Location:

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

Lined pit PWD on or off channel:

Lined pit PWD discharge volume (bbl/day):

Lined pit specifications:

Pit liner description:

Pit liner manufacturers information:

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal permit:

Lined pit precipitated solids disposal schedule:

Lined pit precipitated solids disposal schedule attachment:

Lined pit reclamation description:

Lined pit reclamation attachment:

Leak detection system description:

Leak detection system attachment:

Lined pit Monitor description:

Lined pit Monitor attachment:

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

Is the reclamation bond a rider under the BLM bond?

Lined pit bond number:

Lined pit bond amount:

Additional bond information attachment:

Section 3 - Unlined Pits

Would you like to utilize Unlined Pit PWD options? NO

Produced Water Disposal (PWD) Location:

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

Unlined pit PWD on or off channel:

Unlined pit PWD discharge volume (bbl/day):

Unlined pit specifications:

Precipitated solids disposal:

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):

Injection well mineral owner:

Injection well type:

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

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

Injection well new surface disturbance (acres):

Minerals protection information:

Mineral protection attachment:

Underground Injection Control (UIC) Permit?

UIC Permit attachment:

Section 5 - Surface Discharge

Would you like to utilize Surface Discharge PWD options? NO

Produced Water Disposal (PWD) Location:

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

Surface discharge PWD discharge volume (bbl/day):

Surface Discharge NPDES Permit?

Surface Discharge NPDES Permit attachment:

Surface Discharge site facilities information:

Surface discharge site facilities map:

Section 6 - Other

Would you like to utilize Other PWD options? NO

Produced Water Disposal (PWD) Location:

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

Other PWD discharge volume (bbl/day):

Other PWD type description:

Other PWD type attachment:

Have other regulatory requirements been met?

Other regulatory requirements attachment:

Bond Info

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:

Operator Certification

Operator Certification

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

NAME: Brian Wood **Signed on:** 06/14/2018

Title: President

Street Address: 37 Verano Loop

City: Santa Fe **State:** NM **Zip:** 87508

Phone: (505)466-8120

Email address: afmss@permitswest.com

Field Representative

Representative Name:

Street Address:

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

Phone:

Email address:

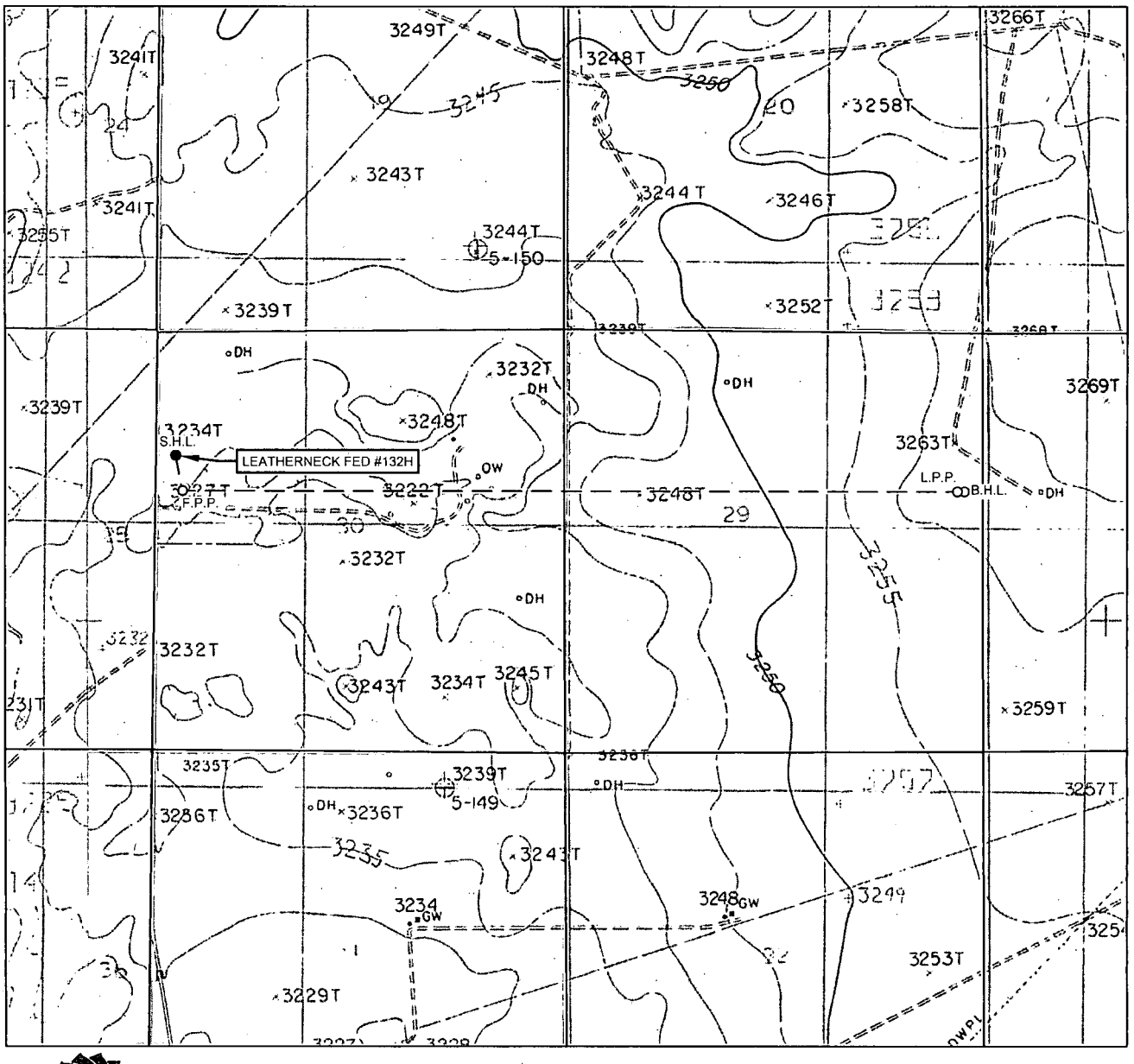
Payment Info

Payment

APD Fee Payment Method: BLM DIRECT

CBS Receipt number: 4163304

LOCATION & ELEVATION VERIFICATION MAP



Matador PRODUCTION COMPANY

LEASE NAME & WELL NO.: LEATHERNECK FED #132H

SECTION 30 TWP 20-S RGE 29-E SURVEY N.M.P.M.
COUNTY EDDY STATE NM ELEVATION 3240'
DESCRIPTION 1540' FNL & 236' FWL

LATITUDE N 32.5475068 LONGITUDE W 104.1217858

-N-

SCALE: 1" = 2000'
0' 1000' 2000'

THIS EASEMENT/SERVITUDE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY MATADOR PRODUCTION COMPANY. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.

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 1983, U.S. SURVEY FEET.

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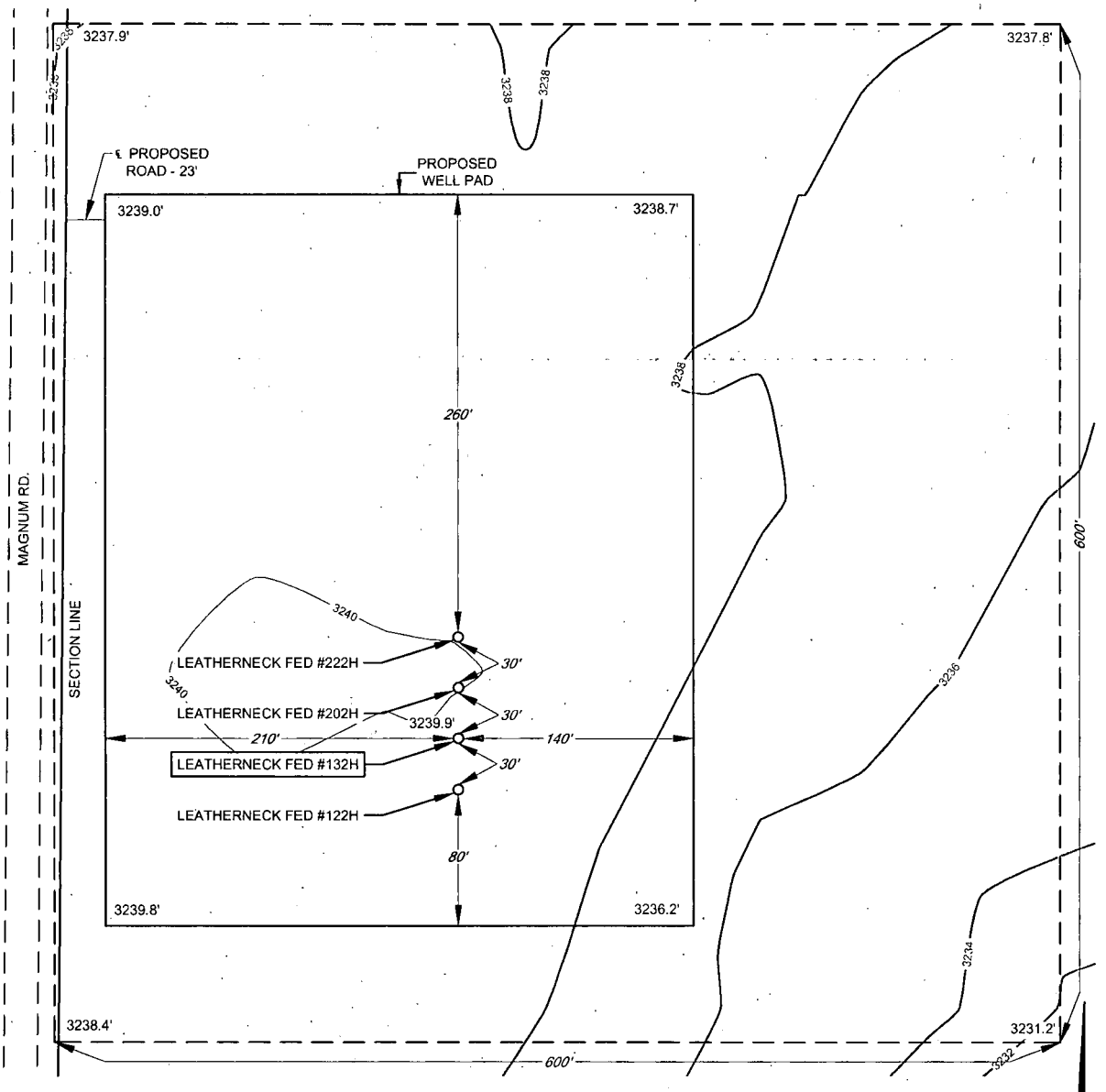
LOYALTY INNOVATION LEGACY
1400 EVERMAN PARKWAY, Ste. 197 • FT. WORTH, TEXAS 76140
TELEPHONE: (817) 744-7512 • FAX (817) 744-7548
2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743
WWW.TOPOGRAPHIC.COM

Matador PRODUCTION COMPANY

SECTION 30, TOWNSHIP 20-S, RANGE 29-E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

DETAIL VIEW
SCALE: 1" = 100'



LEASE NAME & WELL NO.: LEATHERNECK FED #132H

#132H LATITUDE N 32.5475068 #132H LONGITUDE W 104.1217858

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

LEGEND

- EXISTING ROAD
- SECTION LINE
- PROPOSED ROAD
- ARCH SITE

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 1983, U.S. SURVEY FEET.

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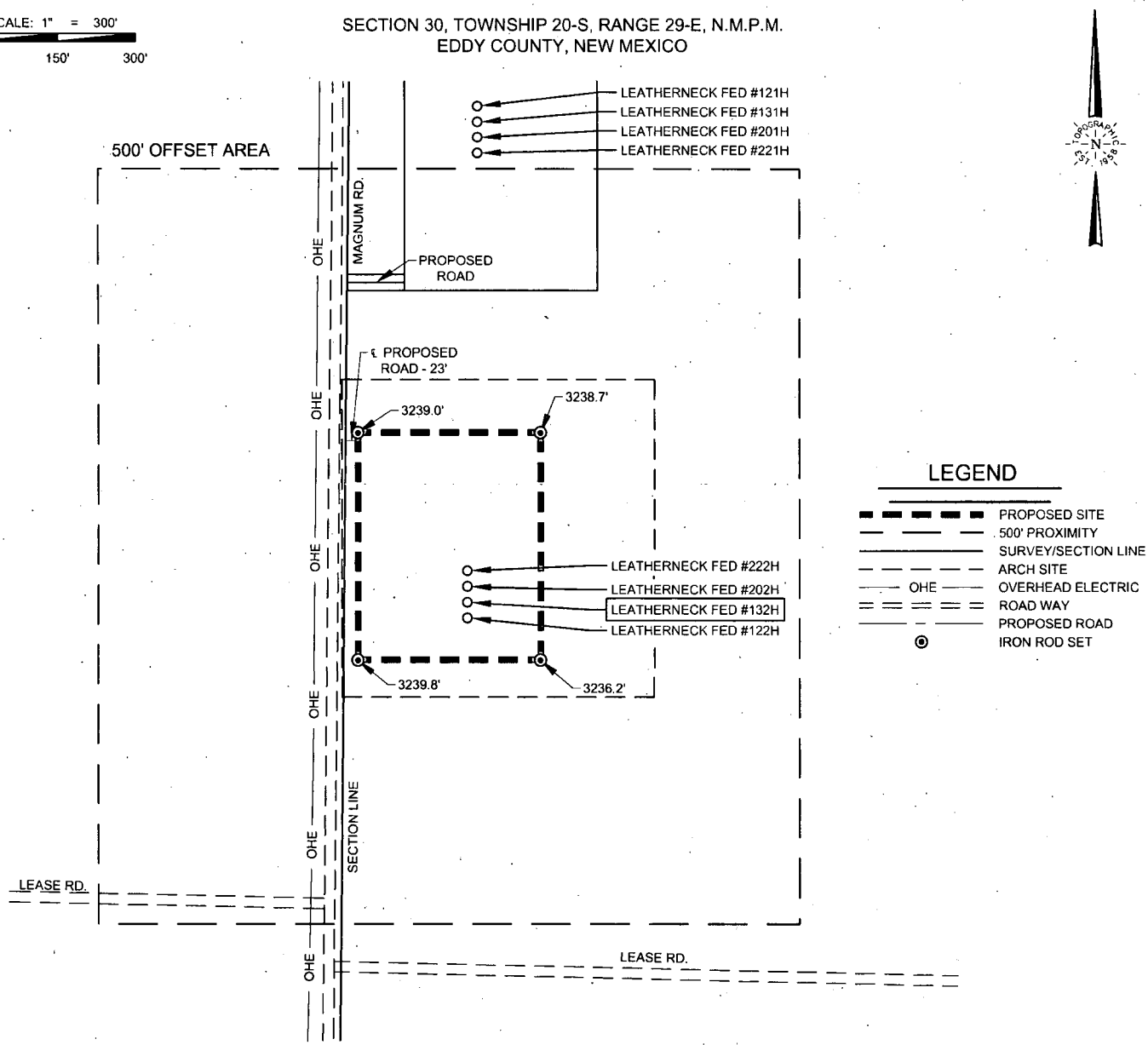
ORIGINAL DOCUMENT SIZE: 8.5" X 11"

SCALE: 1" = 300'

0' 150' 300'

SECTION 30, TOWNSHIP 20-S, RANGE 29-E, N.M.P.M.
EDDY COUNTY, NEW MEXICO



STAN W. LLOYD
NEW MEXICO
19642
PROFESSIONAL SURVEYOR

Stan W. Lloyd, P.S. No. 19642
SEPTEMBER 25, 2017

Matador PRODUCTION COMPANY

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LEATHERNECK FED #132H PROXIMITY	REVISION:	
	GLH	05/11/17
	GLH	05/17/17
DATE: 04/14/17	EAH	09/05/17
FILE: LO_LEATHERNECK_FED_132H_REV4	MML	09/25/17
DRAWN BY: MML		
SHEET: 7 OF 7		

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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 PRODUCTION COMPANY. ONLY UTILITIES/EASEMENTS THAT WERE VISIBLE ON THE DATE OF THIS SURVEY, WITHIN/ADJOINING THIS EASEMENT, HAVE BEEN LOCATED AS SHOWN HEREON OF WHICH I HAVE KNOWLEDGE. THIS CERTIFICATION IS LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE, AND MADE FOR THIS TRANSACTION ONLY.

S:\SURVEY\MATADOR_RESOURCES\LEATHERNECK_FED_132H\FINAL_PRODUCTS\LO_LEATHERNECK_FED_132H_REV4.DWG 9/26/2017 2:10:10 PM ccaston

Matador Production Company

Leatherneck Fed Slot 2:
122H, 132H, 202H, & 222H
Well Vicinity & Lease Map

Sections 29 & 30, T.20S, R.29E
Eddy County, New Mexico

- Leatherneck Fed Slot 2 Well Pad
- Proposed Slot 2 Well Bore Path
- Bottom Hole Location
- Matador Lease Line
- BLM Surface
- State Surface

1:20,350

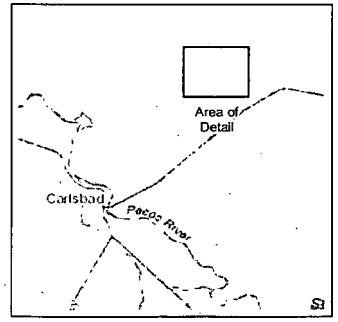
0 0.125 0.25 0.5
Miles

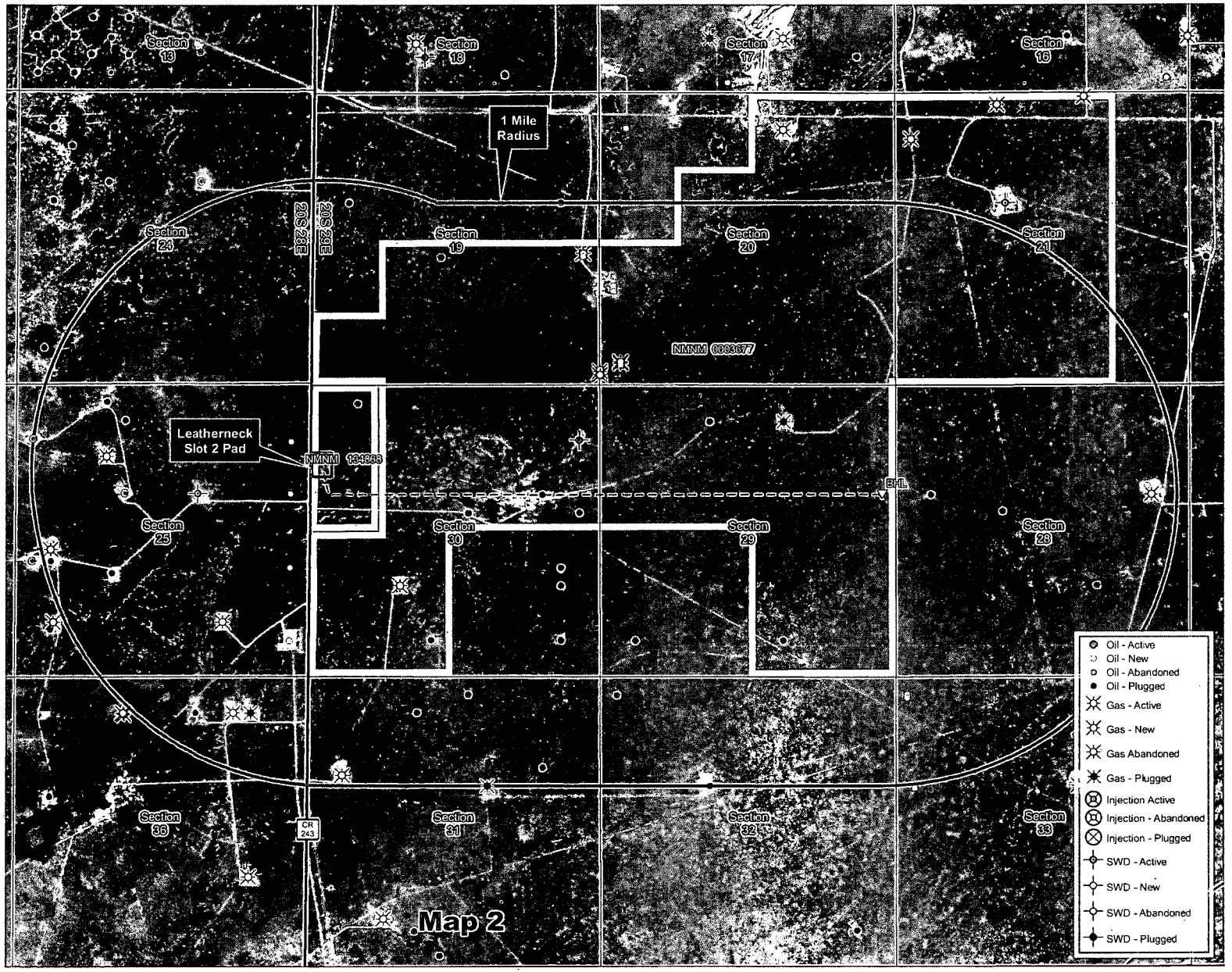
N

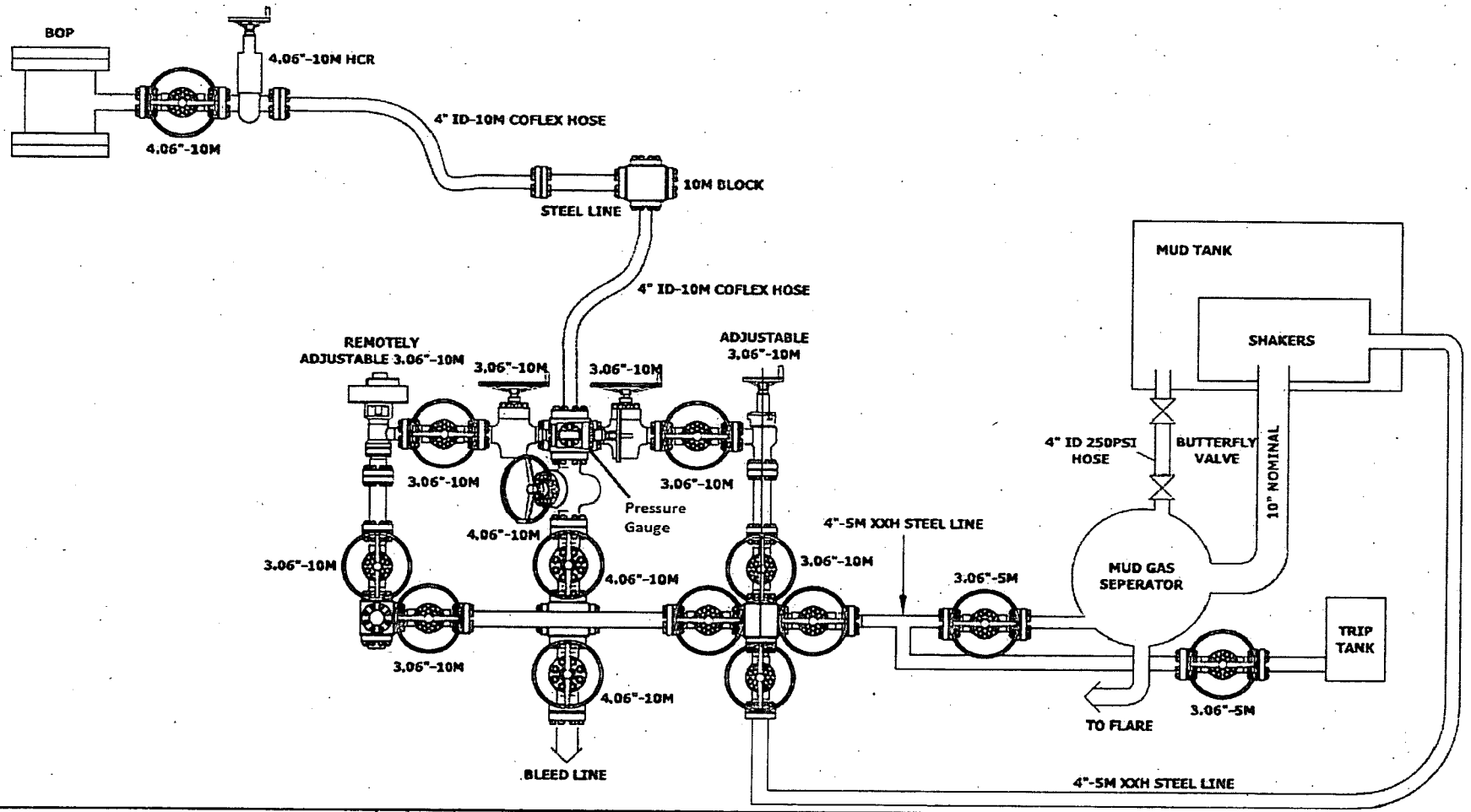
NAD 1983 New Mexico State Plane East
FIPS 3001 Feet

PERMITS WEST

Prepared by Permits West, Inc., May 2, 2018
for Matador Production Company







WELDING NOTE & TOLERANCES UNLESS OTHERWISE SPECIFIED.

GENERAL WELDING NOTE:
ALL ACCESSIBLE CONTACT SURFACES SHALL BE JOINED WITH CONTINUOUS 45 DEGREE FILLET WELDS, WELD SIZE TO BE 1/16 INCH SMALLER THAN THINNER MEMBER JOINED UP TO 1/16 INCH THICKNESS AND 1/8 INCH SMALLER THAN THINNER MEMBER JOINED UP TO 3/4 INCH THICKNESS. WELDMENT TOLERANCES = +/- 1/16

MACHINING TOLERANCES
1 PLACE DECIMAL = ±.1
2 PLACE DECIMAL = ±.03
3 PLACE DECIMAL = ±.010
FRACTIONAL TOLERANCES = ±1/64
HIGH MACHINED CORNER RADII = .031
CHAMFER OUTSIDE CORNERS .03 X 45 DEG
ANGULAR TOLERANCES = ±1 DEGREE
MACHINED SURFACE FINISH 125 RMS
ALL UNSPECIFIED DIMENSIONS ARE IN INCHES

REV	DATE	DESCRIPTION	DRAWN BY	CHKD BY	APPROD ENGR
02	6-3-15	ISSUED FOR INFORMATION	CP	CSL	
01	1-14-9	ISSUED FOR INFORMATION	CSL		

PATTERSON-UTI DRILLING COMPANY LLC

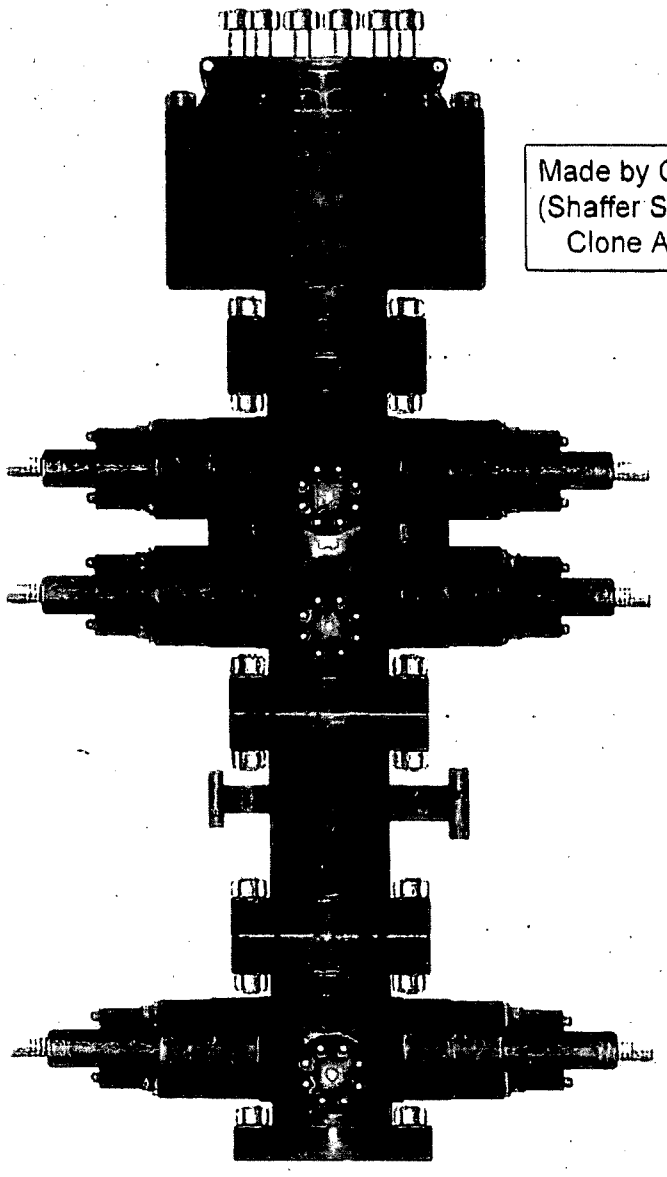
CHOKE MANIFOLD

10M CHOKE ARRANGEMENT
RIG 297

DWG NO. R0297-D.001.LAY.09

PATTERSON-UTI
Well Control

RIG: 297



Made by Cameron
(Shaffer Spherical)
Clone Annular

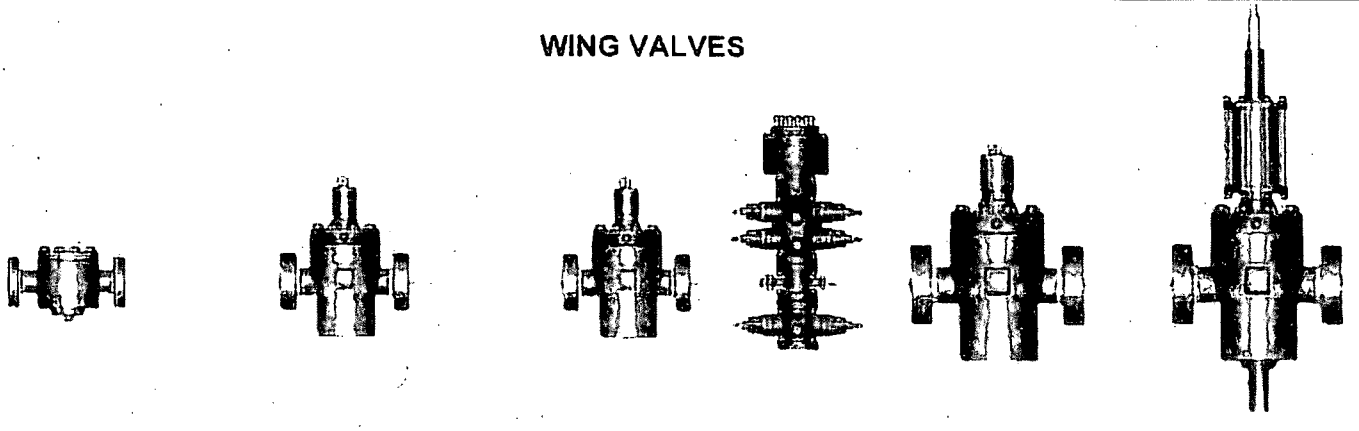
PATTERSON-UTI # PS2-628
STYLE: New Shaffer Spherical
BORE 13 5/8" **PRESSURE** 5,000
HEIGHT: 48 ½" **WEIGHT:** 13,800 lbs

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

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

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

WING VALVES



2" Check Valve | 2" Manual Valve | 2" Manual Valve | 4" Manual Valve | 4" Hydraulic Valve

Midwest Hose & Specialty, Inc.

Internal Hydrostatic Test Graph

December 8, 2014

Customer: Patterson

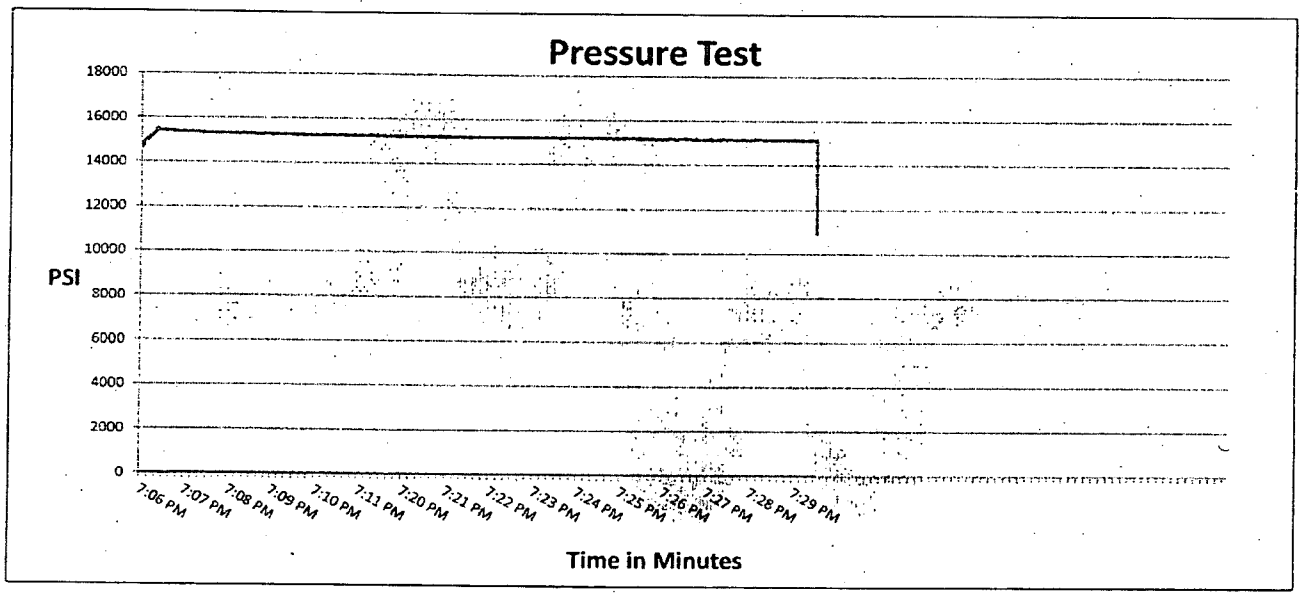
Pick Ticket #: 284918

Hose Specifications

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*

Approved By: *Ryan Adams*

Midwest Hose
& Specialty, Inc.

Internal Hydrostatic Test Certificate

General Information		Hose Specifications	
Customer	PATTERSON B&E	Hose Assembly Type	Choke & Kill
MWH Sales Representative	AMY WHITE	Certification	API 7K
Date Assembled	12/8/2014	Hose Grade	MUD
Location Assembled	OKC	Hose Working Pressure	10000
Sales Order #	236404	Hose Lot # and Date Code	10490-01/13
Customer Purchase Order #	260471	Hose I.D. (Inches)	3"
Assembly Serial # (Pick Ticket #)	287918-2	Hose O.D. (Inches)	5.30"
Hose Assembly Length	10'	Armor (yes/no)	YES

Fittings			
End A		End B	
Stem (Part and Revision #)	R3.0X64WB	Stem (Part and Revision #)	R3.0X64WB
Stem (Heat #)	91996	Stem (Heat #)	91996
Ferrule (Part and Revision #)	RF3.0	Ferrule (Part and Revision #)	RF3.0
Ferrule (Heat #)	37DA5631	Ferrule (Heat #)	37DA5631
Connection (Part #)	4 1/16 10K	Connection (Part #)	4 1/16 10K
Connection (Heat #)		Connection (Heat #)	
Dies Used	5.37	Dies Used	5.37

Hydrostatic Test Requirements		
Test Pressure (psi)	15,000	***Hose assembly was tested with ambient water temperature.***
Test Pressure Hold Time (minutes)	15 1/2	

Date Tested	Tested By	Approved By
12/8/2014		

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 Graph

December 9, 2014

Customer: Patterson

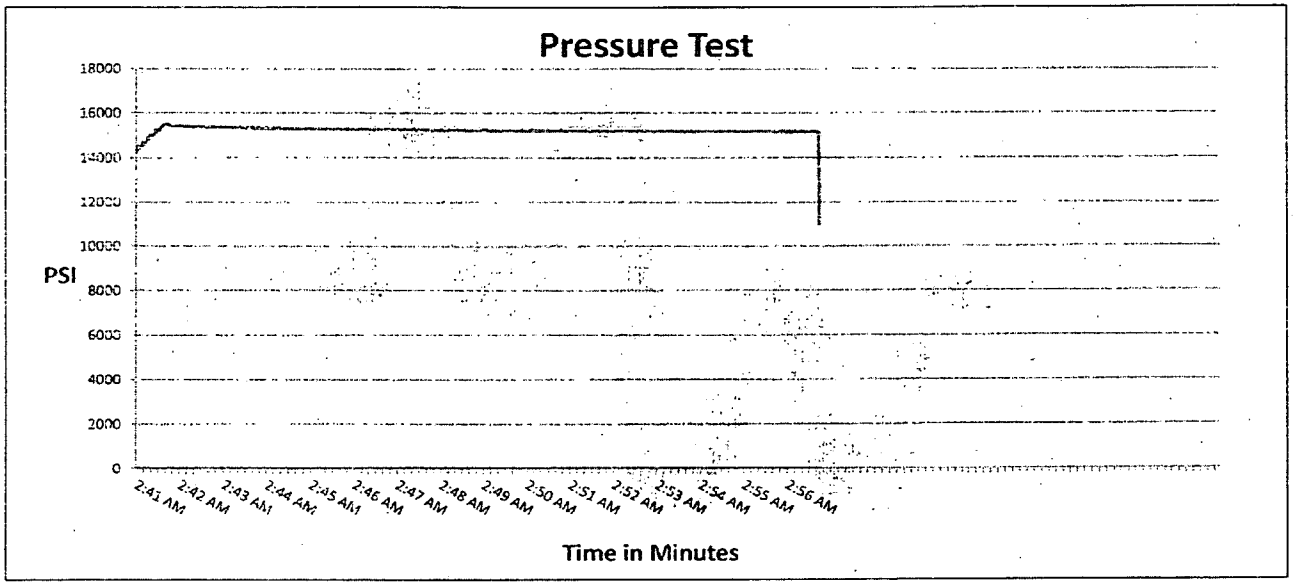
Pick Ticket #: 284918

Hose Specifications

Hose Type	Length
Ck	20'
I.D.	**O.D.**
3"	4.77"
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"	5.40"
Hose Serial #	**Hose Assembly Serial #**
10490	284918-1



Test Pressure	Time Held at Test Pressure	Actual Burst Pressure	Peak Pressure
15000 PSI	15 2/4 Minutes		15893 PSI

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

Tested By: *Tyler Hill*

Approved By: *Ryan Adams*

Midwest Hose
& Specialty, Inc.

Internal Hydrostatic Test Certificate

General Information		Hose Specifications	
Customer	PATTERSON B&E	Hose Assembly Type	Choke & Kill
MWH Sales Representative	AMY WHITE	Certification	API 7K
Date Assembled	12/8/2014	Hose Grade	MUD
Location Assembled	OKC	Hose Working Pressure	10000
Sales Order #	236404	Hose Lot # and Date Code	10490-01/13
Customer Purchase Order #	260471	Hose I.D. (Inches)	3"
Assembly Serial # (Pick Ticket #)	287918-1	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.

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 #	**287918-1**	*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

Midwest Hose & Specialty, Inc.

Internal Hydrostatic Test Graph

December 9, 2014

Customer: Patterson

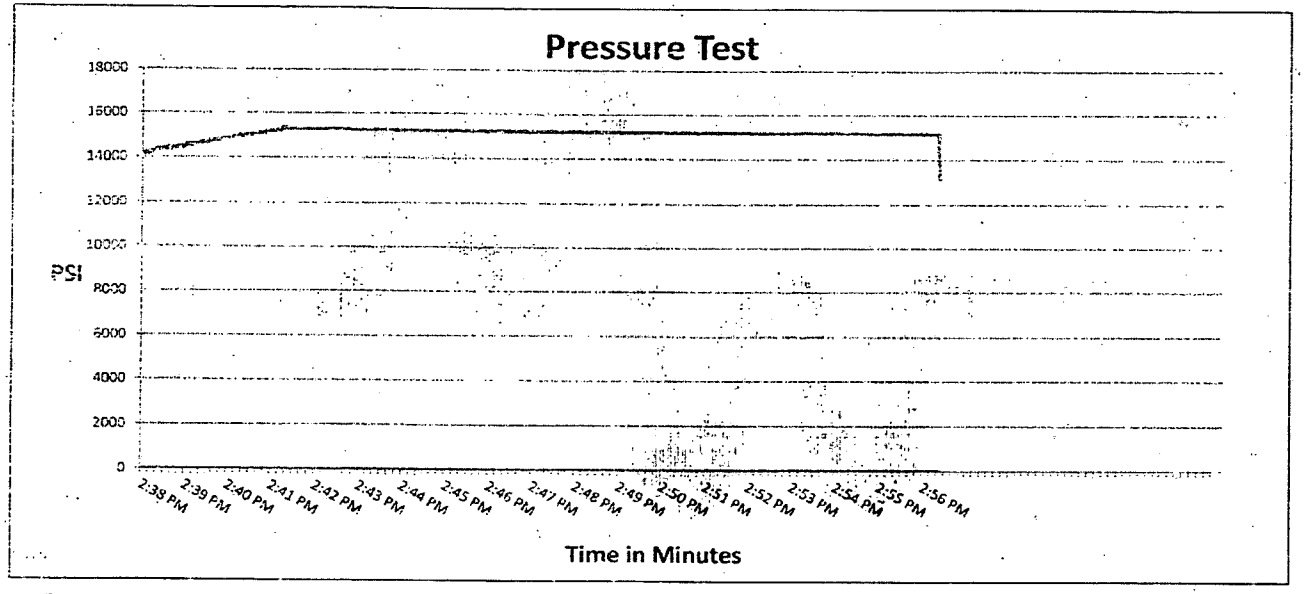
Pick Ticket #: 284918

Hose Specifications

Hose Type	Length
Mud	70'
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	284918-3



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.

Internal Hydrostatic Test Certificate

General Information		Hose Specifications	
Customer	PATTERSON B&E	Hose Assembly Type	Choke & Kill
MWH Sales Representative	AMY WHITE	Certification	API 7K
Date Assembled	12/8/2014	Hose Grade	MUD
Location Assembled	OKC	Hose Working Pressure	10000
Sales Order #	236404	Hose Lot # and Date Code	10490-01/13
Customer Purchase Order #	260471	Hose I.D. (Inches)	3"
Assembly Serial # (Pick Ticket #)	287918-3	Hose O.D. (Inches)	5.23"
Hose Assembly Length	70'	Armor (yes/no)	YES

Fittings

End A		End B	
Stem (Part and Revision #)	R3.0X64WB	Stem (Part and Revision #)	R3.0X64WB
Stem (Heat #)	A141420	Stem (Heat #)	A141420
Ferrule (Part and Revision #)	RF3.0	Ferrule (Part and Revision #)	RF3.0
Ferrule (Heat #)	37DA5631	Ferrule (Heat #)	37DA5631
Connection (Part #)	4 1/16 10K	Connection (Part #)	4 1/16 10K
Connection (Heat #)		Connection (Heat #)	
Dies Used	5.37	Dies Used	5.37

Hydrostatic Test Requirements

Test Pressure (psi)	15,000	***Hose assembly was tested with ambient water temperature.***
Test Pressure Hold Time (minutes)	16 3/4	

Date Tested	Tested By	Approved By
12/9/2014		

Midwest Hose
& Specialty, Inc.

Certificate of Conformity

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

Casing Design Criteria and Load Case Assumptions

Surface Casing

Collapse: DF_C=1.125

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

Burst: DF_b=1.125

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

Tensile: DF_t=1.8

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

Intermediate #1 Casing

Collapse: DF_C=1.125

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

Burst: DF_b=1.125

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

Tensile: DF_t=1.8

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

Intermediate #2 Casing

Collapse: DF_C=1.125

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

Burst: DF_b=1.125

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

Tensile: DF_t=1.8

- Overpull: A downward force of 100,000 lbs is applied at the shoe along with the weight of the casing string utilizing the effects of buoyancy (8.4 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 (0.47 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 (0.47 psi/ft) and an internal force equal to mud gradient of displacement fluid (0.43 psi/ft).

Burst: DF_b=1.125

- Pressure Test: 8000 psi casing test 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.
- 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 (0.47 psi/ft), which is a more conservative backup force than pore pressure.

Tensile: DF_t=1.8

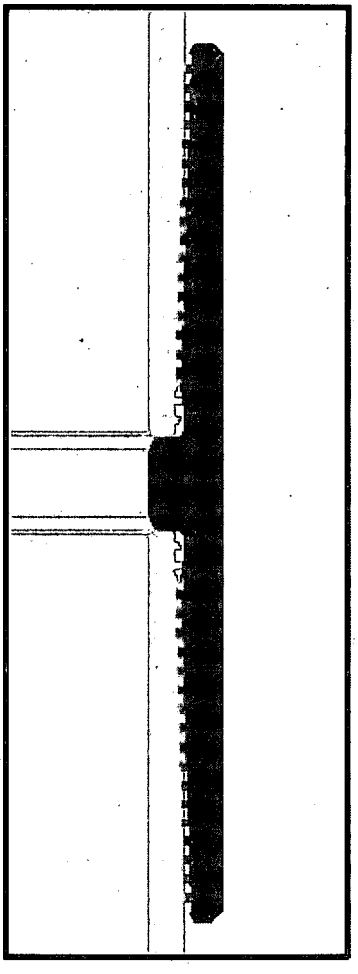
- Overpull: A downward force of 100,000 lbs is applied at the shoe along with the weight of the casing string utilizing the effects of buoyancy (9.0 ppg).

Technical Specifications

Connection Type:	Size(O.D.):	Weight (Wall):	Grade:
DWC/C-IS PLUS Casing	5-1/2 in	20.00 lb/ft (0.361 in)	VST P110 EC
standard			

	Material
VST P110 EC	Grade
125,000	Minimum Yield Strength (psi)
135,000	Minimum Ultimate Strength (psi)
	Pipe Dimensions
5.500	Nominal Pipe Body O.D. (in)
4.778	Nominal Pipe Body I.D.(in)
0.361	Nominal Wall Thickness (in)
20.00	Nominal Weight (lbs/ft)
19.83	Plain End Weight (lbs/ft)
5.828	Nominal Pipe Body Area (sq in)
	Pipe Body Performance Properties
729,000	Minimum Pipe Body Yield Strength (lbs)
12,090	Minimum Collapse Pressure (psi)
14,360	Minimum Internal Yield Pressure (psi)
13,100	Hydrostatic Test Pressure (psi)
	Connection Dimensions
6.300	Connection O.D. (in)
4.778	Connection I.D. (in)
4.653	Connection Drift Diameter (in)
4.13	Make-up Loss (in)
5.828	Critical Area (sq in)
100.0	Joint Efficiency (%)
	Connection Performance Properties
729,000	Joint Strength (lbs)
26,040	Reference String Length (ft) 1.4 Design Factor
728,000	API Joint Strength (lbs)
729,000	Compression Rating (lbs)
12,090	API Collapse Pressure Rating (psi)
14,360	API Internal Pressure Resistance (psi)
104.2	Maximum Uniaxial Bend Rating [degrees/100 ft]
	Appoximated Field End Torque Values
16,600	Minimum Final Torque (ft-lbs)
19,100	Maximum Final Torque (ft-lbs)
21,600	Connection Yield Torque (ft-lbs)

VAM USA
4424 W. Sam Houston Pkwy. Suite 150
Houston, TX 77041
Phone: 713-479-3200
Fax: 713-479-3234
E-mail: VAMUSAsales@vam-usa.com

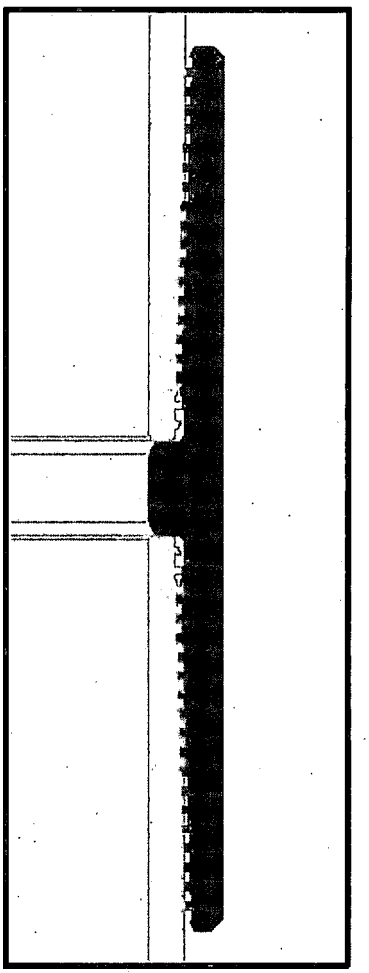


For detailed information on performance properties, refer to DWC Connection Data Notes on following page(s).

4/14/2015

DWC Connection Data Notes:

1. DWC connections are available with a seal ring (SR) option.
2. All standard DWC/C connections are interchangeable for a give pipe OD. DWC connections are interchangeable with DWC/C-SR connections of the same OD and wall.
3. Connection performance properties are based on nominal pipe body and connection dimensions.
4. DWC connection internal and external pressure resistance is calculated using the API rating for buttress connections. API Internal pressure resistance is calculated from formulas 31, 32, and 35 in the API Bulletin 5C3.
5. DWC joint strength is the minimum pipe body yield strength multiplied by the connection critical area.
6. API joint strength is for reference only. It is calculated from formulas 42 and 43 in the API Bulletin 5C3.
7. Bending efficiency is equal to the compression efficiency.
8. The torque values listed are recommended. The actual torque required may be affected by field conditions such as temperature, thread compound, speed of make-up, weather conditions, etc.
9. Connection yield torque is not to be exceeded.
10. Reference string length is calculated by dividing the joint strength by both the nominal weight in air and a design factor (DF) of 1.4. These values are offered for reference only and do not include load factors such as bending, buoyancy, temperature, load dynamics, etc.
11. DWC connections will accommodate API standard drift diameters.



4/14/2015

Hydrogen Sulfide Drilling

Operations Plan

Matador Resources

1 H2S safety instructions to the following:

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

2 H2S Detection and Alarm Systems:

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

3 Windsocks and / Wind Streamers:

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

4 Condition Flags and Signs:

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

5 Well Control Equipment:

- See Exhibit E-1

6 Communication:

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

7 Drilling Stem Testing:

- No DST cores are planned at this time

8 Drilling contractor supervisor will be required to 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

10 H2S Contingency Plan:

- See exhibit (Contingency Plan)

11 Emergency Contacts

- See exhibit (Contingency Plan)

Exhibit E-6: H2S Contingency Plan Emergency Contacts
Leatherneck 30 Federal #121H
Matador Resources Company
Sec. 29-30, 20S, 29E
Eddy Co., NM

Company Office			
Matador Resources Company	(972)-371-5200		
Key Personnel			
Name	**Title**	**Office**	**Mobile**
Billy Goodwin	Vice President Drilling	972-371-5210	817-522-2928
Gary Martin	Drilling Superintendent		601-669-1774
Dee Smith	Drilling Superintendent	972-371-5447	972-822-1010
Patrick Walsh	Drilling Engineer	972-371-5291	626-318-5808
Gred Deevers	Construction Superintendent		405-431-9527
Jimmy Benefield	Construction Superintendent		318-548-6659

Artesia	
Ambulance	911
State Police	575-746-2703
City Police	575-746-2703
Sheriff's Office	575-746-9888
Fire Department	575-746-2701
Local Emergency Planning Committee	575-746-2122
New Mexico Oil Conservation Division	575-748-1283
Carlsbad	
Ambulance	911
State Police	575-885-3137
City Police	575-885-2111
Sheriff's Office	575-887-7551
Fire Department	575-887-3798
Local Emergency Planning Committee	575-887-6544
New Mexico Oil Conservation Division	575-887-6544
Santa Fe	
New Mexico Emergency Response Comission (Santa Fe)	505-476-9600
New Mexico Emergency Response Comission (Santa Fe) 24 hrs	505-827-9126
New Mexico State Emergency Operations Center	505-476-9635
National	
National Emegency Response Center (Washington, D.C.)	800-424-8802
Medical	
Flight for Life- 4000 24th St.; Lubbock, TX	806-743-9911
Aerocare- R3, Box 49F; Lubbock, TX	806-747-8923
Med Flight Air Amb- 2301 Yale Blvd S.E., D3; Albuquerque, NM	505-842-4433
SB Air Med Service- 2505 Clark Carr Loop S.E.; Albuquerque, NM	505-842-4949

Other		
Boots & Coots IWC	800-256-9688	or 281-931-8884
Cudd Pressure Control	432-699-0139	or 432-563-3356
Haliburton	575-746-2757	
B.J. Services	575-746-3569	

Rig Diagram

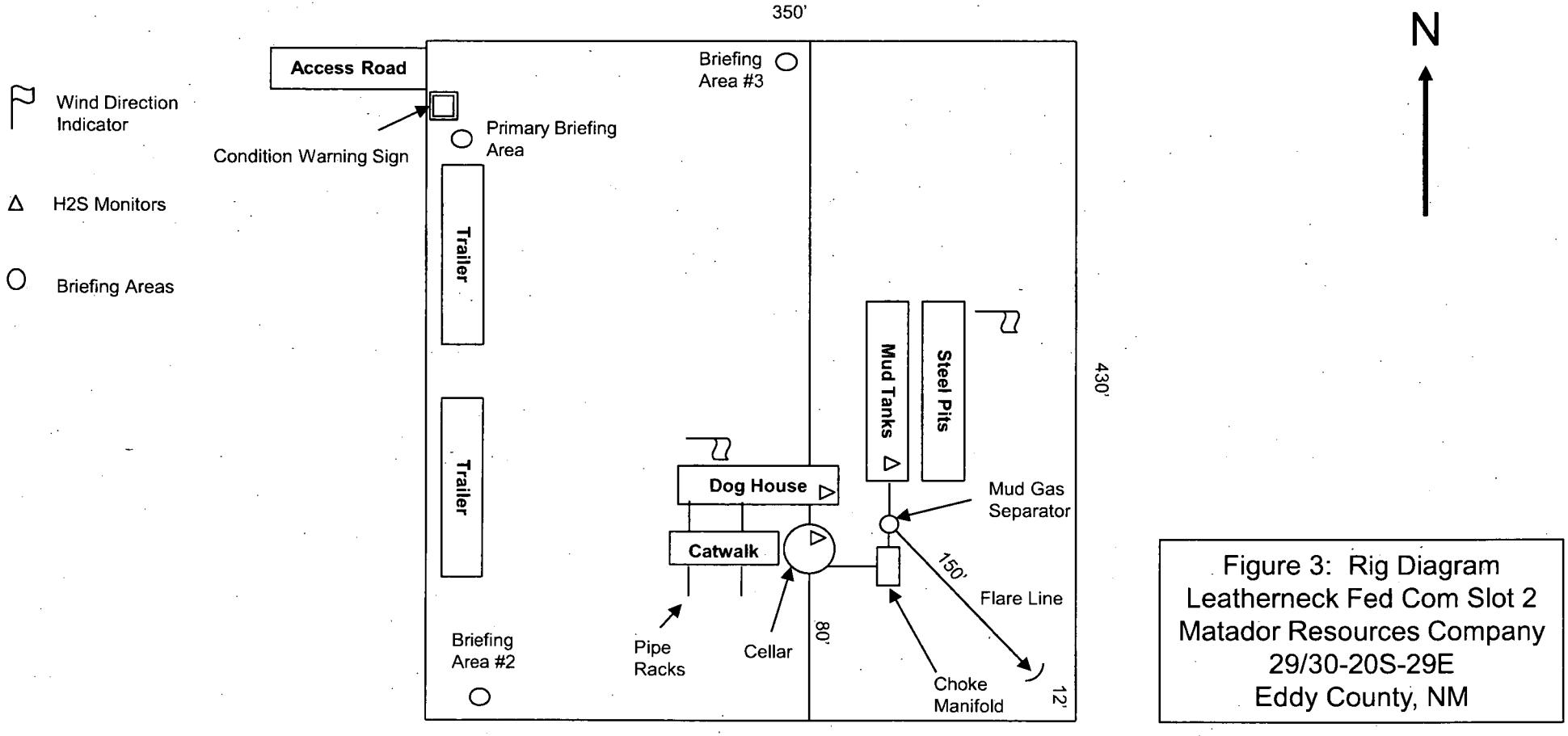
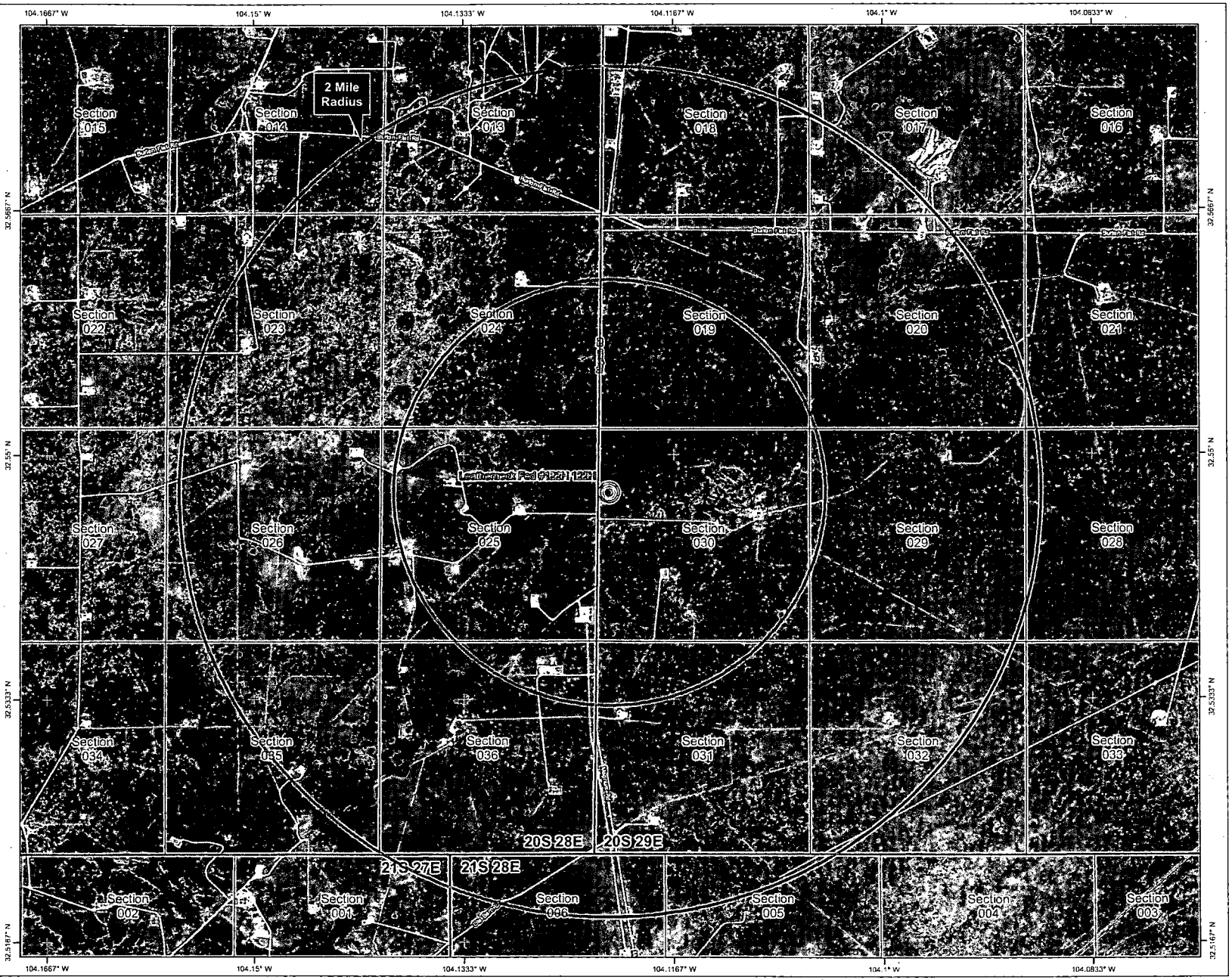


Figure 3: Rig Diagram
Leatherneck Fed Com Slot 2
Matador Resources Company
29/30-20S-29E
Eddy County, NM

Matador Production Company

Leatherneck Fed #122H
H_2S Contingency Plan:
2 Mile Radius Map

Section 30, Township 20S, Range 29E
Eddy County, New Mexico



Surface Hole Location

1:27,000

0 0.25 0.5 1

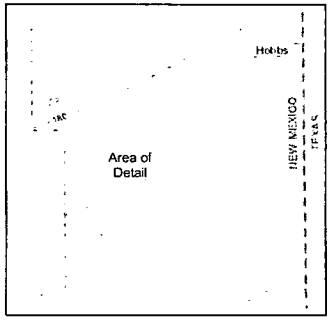
Miles

N

NAD 1983 New Mexico State Plane East
FIPS 3001 Feet

PERMITS WEST, INC.

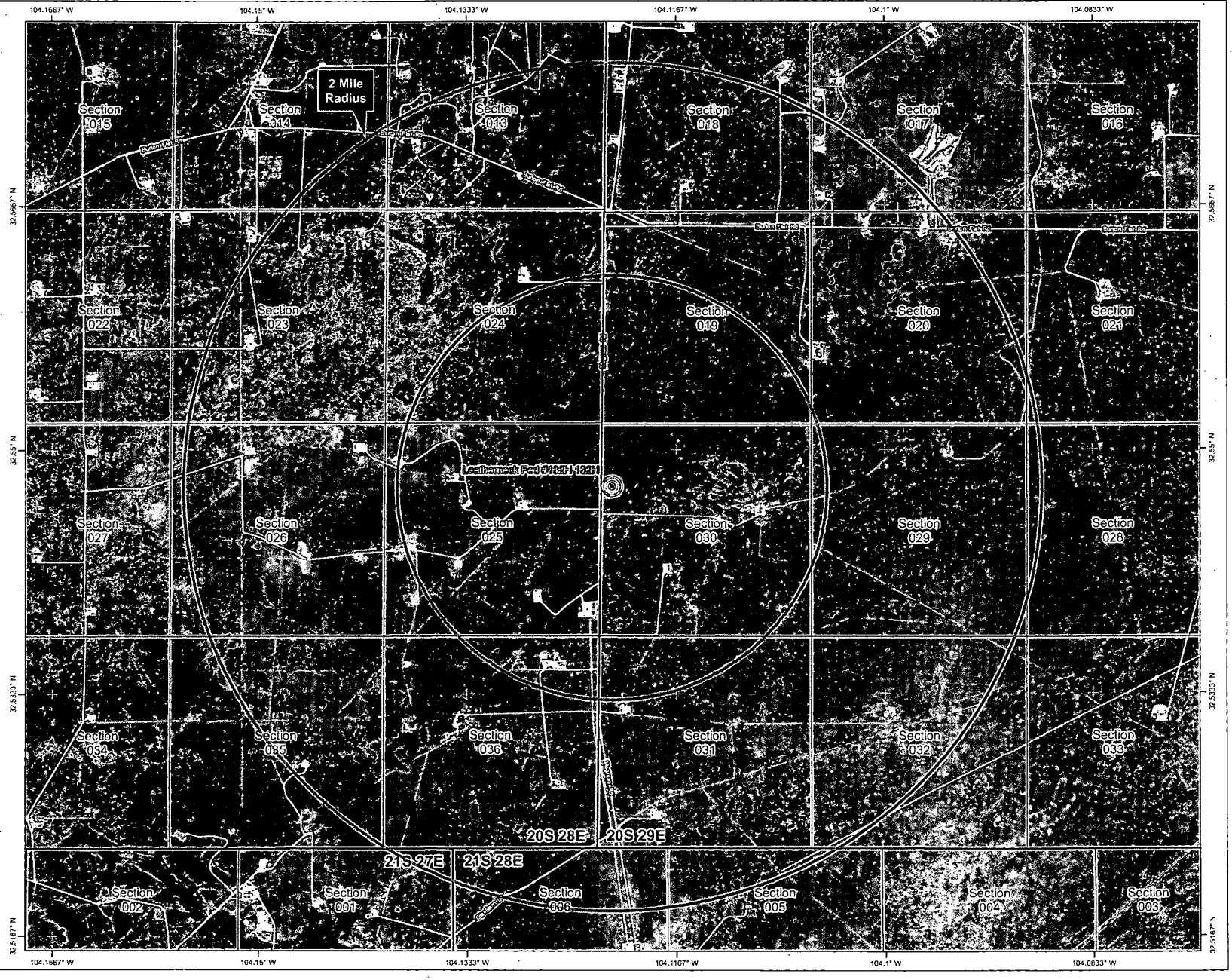
Prepared by Permits West, Inc., May 5, 2018
for Matador Production Company



Matador Production Company

Leatherneck Fed #132H
H_2S Contingency Plan:
2 Mile Radius Map

Section 30, Township 20S, Range 29E
Eddy County, New Mexico



Surface Hole Location

1:27,000

0 0.25 0.5 1

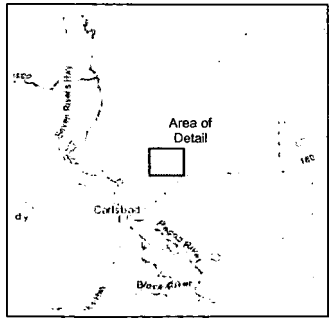
Miles

N

NAD 1983 New Mexico State Plane East
FIPS 3001 Feet

PERMITS WEST, INC.

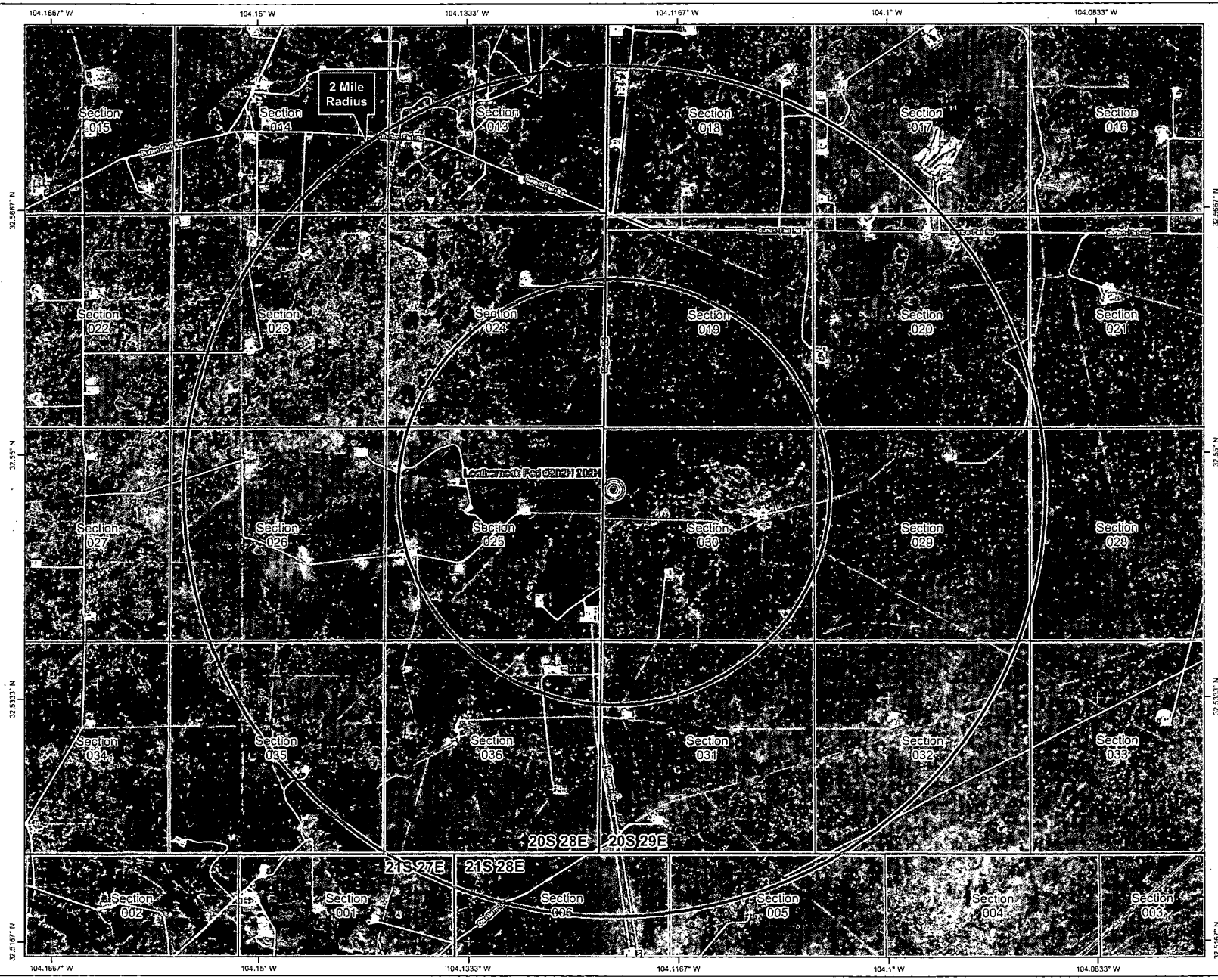
Prepared by Permits West, Inc., May 5, 2018
for Matador Production Company



Matador Production Company

Leatherneck Fed #202H
H_2S Contingency Plan:
2 Mile Radius Map

Section 30, Township 20S, Range 29E
Eddy County, New Mexico



Surface Hole Location

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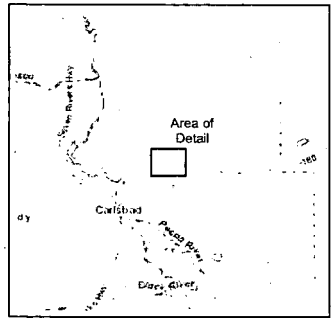
Miles

N

NAD 1983 New Mexico State Plane East
FIPS 3001 Feet

PERMITS WEST, inc.
PROVIDING PERMITS NOT PLANS SINCE

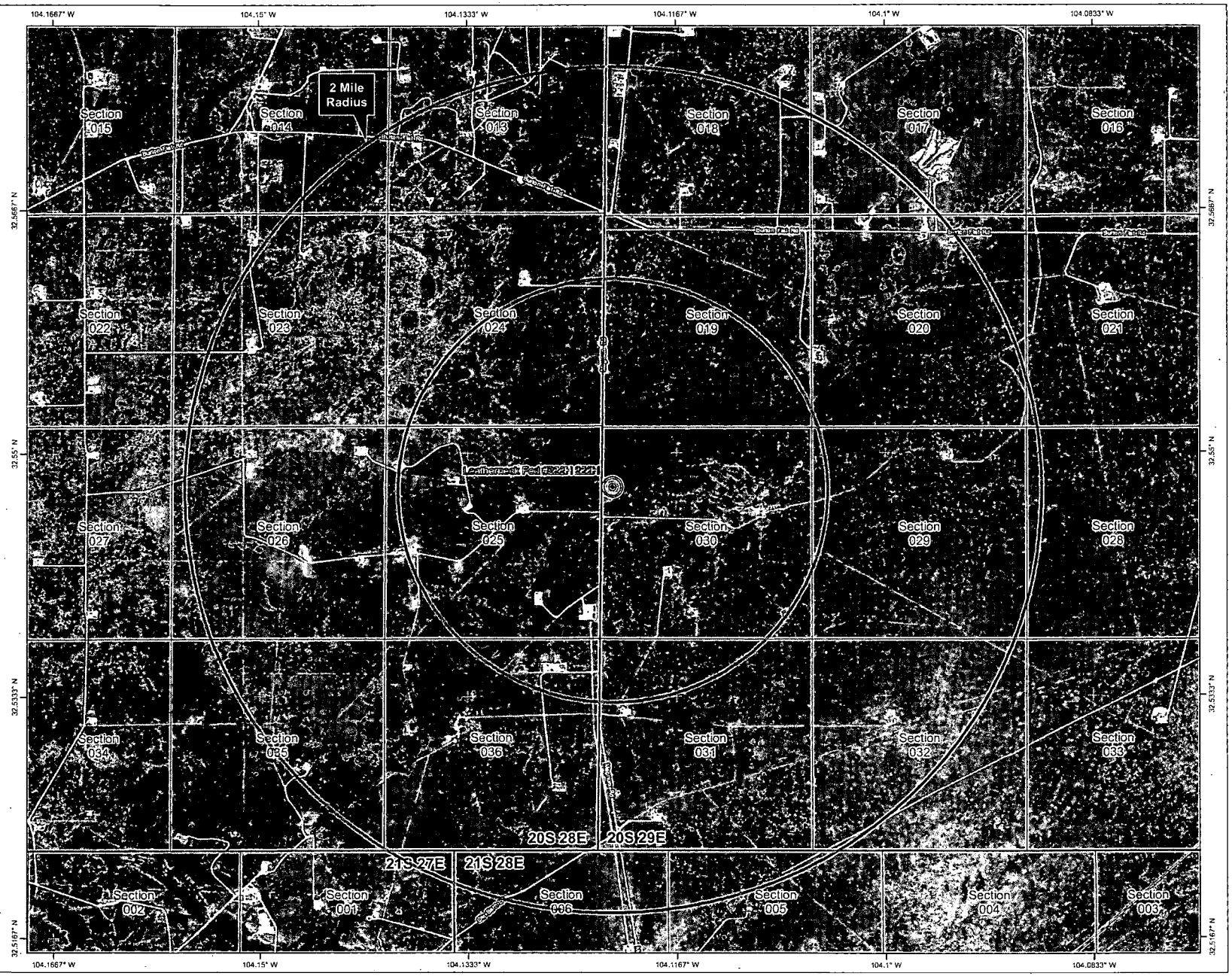
Prepared by Permits West, Inc., May 5, 2018
for Matador Production Company



Matador Production Company

Leatherneck Fed #222H
H_2S Contingency Plan:
2 Mile Radius Map

Section 30, Township 20S, Range 29E
Eddy County, New Mexico



Surface Hole Location

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0 0.25 0.5 1

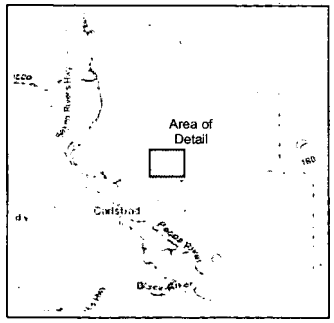
Miles

N

NAD 1983 New Mexico State Plane East
FIPS 3001 Feet

PERMITS WEST

Prepared by Permits West, Inc., May 5, 2018
for Matador Production Company



HYDROGEN SULFIDE CONTINGENCY PLAN
Drilling, Testing, & Completion

MRC ENERGY CO.

Reviewers

---------- Operations Manager
---------- Operations Supt.
---------- Staff RES
---------- Field Supv.
---------- Engineering

Latitude: N 32.5474243
Longitude: W - 104.12178

Leatherneck Fed Com Slot 2 Well Pad

H2S Contingency Plan # 0165 **Revision#** 0

This H2S Contingency Plan is subject to updating

Effective date: July 8, 2015

TABLE OF CONTENTS

INTRODUCTION

The H2S equipment will be rigged up 2 days prior to reaching a potential H2S containing zone. Drilling into any potential H2S zone shall not commence until the on-site MRC Drilling Supervisor has confirmed this plan in place.

The onsite Drilling Foreman will give Total Safety one week (7 days) notice to prepare for rig up of H2S equipment)

To be effective, the plan requires the cooperation and effort of each person participating in the drilling of an H_2S well. Each person must know his/her responsibilities and all emergency and safety procedures. He/she should thoroughly understand and be able to use with accuracy, all safety equipment while performing his/her normal duties, if the circumstance should arise. He/she should therefore familiarize himself/herself with the location of all safety equipment and check to see that it is properly stored, easily accessible at all times, and routinely maintained.

It is the intention of MRC ENERGY CO. and the Drilling Contractor to make every effort to provide adequate safeguards against harm to persons on the rig and in the immediate vicinity from the effects of hydrogen sulfide, which may be released into the atmosphere under emergency conditions. However, the initiative rests with the individual in utilizing the safeguards provided. The ideas and suggestions of the individuals involved in the drilling of this well are highly welcomed and act as a fundamental tool for providing the safest working conditions possible.

The drilling representative is required to enforce these procedures. They are set up for your safety and the safety of all others.

II. PURPOSE

It is MRC Energy Co.'s intent to provide a safe working place, not only for its employees, but also for other contractors who are aiding in the drilling of this well. The safety of the general public is of utmost concern. All precautions will be taken to keep a safe working environment and protect the public.

There is a possibility of encountering toxic hydrogen sulfide gas. Safety procedures must be adhered to in order to protect all personnel connected with the operations as well as people living within the area.

The MRC Energy Co. representative will enforce all aspects of the H2S Contingency Plan. This job will become easier by a careful study of the following pages and training and informing all personnel that will be working on the well, their duties and responsibilities.

A. OPERATING PROCEDURES

DEFINITIONS:

For purpose of this plan, on-site personnel shall be referred to as "In Scope Personnel" or "Out of Scope Personnel", per the following definitions:

In Scope Personnel – Personnel who will be working or otherwise present in potential H2S release areas, including the rig floor, cellar, pits, and shaker areas.

Out of Scope Personnel – Personnel who will not be working or Otherwise present in potential H2S areas. Such personnel include rig Site visitor, delivery and camp services personnel.

GENERAL:

Before this H_2S contingency plan becomes operational, all regularly assigned In Scope Personnel (primarily the MRC, drilling contractor, and certain service personnel,) shall be thoroughly trained in the use of breathing equipment, emergency procedures, and responsibilities. Total Safety Technician or a designee assigned by the MRC Drilling Foreman shall keep a list of all personnel who have been through the on-site H_2S training program at the drill site.

All In Scope Personnel shall be given H2S training and the steps to be taken during H2S conditions under which the well may be drilled. General information will be explained about toxic gases, as well as the physiological effects of H_2S and the various classified operating conditions. In addition, the reader will be informed his/her general responsibility concerning safety equipment and emergency procedures.

The Total Safety H_2S Safety Technician or MRC on-site RSE Technician shall make available the H2S Contingency Plan for all personnel to review.

Without exception, all personnel that arrive on location must proceed directly to and sign-in with the on-site MRC RSE Technician. In Scope Personnel will be required to complete an on-site H2S training and respirator fit testing before starting work, or produce evidence that they have received equivalent training. Out of Scope Personnel will be required to complete a site H2S awareness and general safety briefing. This briefing will consist of a H2S hazard overview, alarm review and required response to alarms.

B. PROCEDURES TO BE INITIATED PRIOR TO H2S CONTINGENCY PLAN COMPLIANCE:

A list of emergency phone numbers and contacts will be on location and posted at the following locations:

1. MRC ENERGY CO.'S Representative's Office
2. Drilling Contractor's, Toolpusher Office
3. Living Quarters Area

All safety equipment and H_2S related hardware must be set up as required by MRC Energy Co. with regard to location of briefing areas, breathing equipment, etc. All safety equipment must be inspected periodically (at least weekly) with particular attention to resuscitators and breathing equipment.

In Scope Personnel working in the well site area will be assigned breathing apparatus. Operator and drilling contractor personnel required to work in the following areas will be provided with Self Contained Breathing Apparatus:

1. Rig Floor
2. Mud Pits
3. Derrick
4. Shale Shaker
5. Cellar

The Total Safety H_2S Safety Technician will be responsible for rigging up all H_2S continuous monitoring-type detectors. The Total Safety Technician will monitor and bump test the detector units periodically (at least at least once a week to test alarm function during drilling conditions. In the event H_2S is detected, or when drilling in a zone confirmed to contain H_2S, the units shall be bump tested at least once every 24 hours. A bump test/calibration log will be kept on location. All results will be reported to the MRC on-site Drilling Foreman.

All Total Safety H2S equipment will be maintained and inspected by a Total Safety Technician on at least a Weekly basis.

C. DRILLING BELOW CONTINGENCY PLAN DEPTH

H2S response drills will be held at least once per week if possible or as often as necessary to acquaint the crews and service company personnel of their responsibilities and the proper procedures to shut-in a well. Initial drills will be performed until crews demonstrate competency donning and working under mask. After the MRC Energy Co.'s representative is satisfied with initial blowout drill procedures, a drill will be conducted weekly with each crew, as necessary. The H2S Safety Technician or designee will conduct safety talks and maintain the safety equipment, consult and carry out the instructions of the drilling supervisor. All personnel allowed in the well work area during drilling or testing operations will be instructed in the use of breathing equipment until supervisory personnel are satisfied that they are capable of using it.

After familiarization, each person must perform a drill with breathing equipment. The drill should include getting the breathing equipment, donning the breathing apparatus, and performing expected duties for a short period. A record shall be kept of all personnel drilled and the date of the drill. H2S training records will be kept on location for all personnel.

Rig crews and service company personnel shall be made aware of the location of spare air bottles, resuscitation equipment, portable fire extinguishers, H_2S monitors and detectors. Knowledge of the location of the H_2S monitors and detectors are vital in determining as our gas location and the severity of the emergency conditions.

After any device has initially detected H2S, all areas of poor ventilation shall be inspected periodically by means of a portable H_2S detector instrument. The buddy system will be utilized. (When an alarm sounds, personnel will don an SCBA, shut the well in, and proceed to SBA for roll call. The H2S Technician or designee will mask up, with a buddy and will verify source of H2S and report back to the on-site MRC Foreman.)

D. PROCEDURES PROGRAM

1. Drill Site

   a. The drilling rig will be located to allow prevailing winds to blow across the reserve pit.

   b. A Safe Briefing Area will be provided with a breathing air cascade trailer and or 30-minute SCBA's at the Primary Area. Personnel will assemble at the most up-wind station under alarm conditions, or when so ordered by the MRC Energy Co. representative, the Contractor representative, or

the Total Safety H_2S Safety Technician. Windsocks or streamers will be anchored to various strategic places on a pole about 10 feet high, so it is in easy view from the rig floor at all times.

c. Warning signs will be posted on the perimeters. "No Smoking" signs will be posted by MRC Energy Co.as well.

d. One multi-channel automatic H_2S monitor will be provided by Total Safety and the detector heads will be at the shale shaker, bell nipple, mud pits, rig floor, and quarter's area. The monitor will be located inside HSE or Company man trailer. Should the alarm be shut off to silence the sirens, the blinker light must continue to warn of H_2S presence. The Total Safety H2S Safety Technician or designee will continuously monitor the detectors and will reactivate the alarm if H_2S concentrations increase to a dangerous level.

e. A method of escape will be open at all times.

f. If available, land line telephone service will be provided or cell phones provided. (Primary communications provided)

g. A rig communication system will be provided, as needed.

h. A gas trap, choke manifold, and degasser will be installed.

i. A kill line, securely anchored and of ample strength, will be laid to the well-head from a safe location. This line is to be used only in an emergency.

General

a. The MRC Energy Co. representative and/or the Contractor's Toolpusher will be available at all times. The drilling supervisor, while on duty, will have complete charge of the rig and location operations and will take whatever action is deemed necessary to insure personnel safety, to protect the well, and to prevent damage.

b. A Mud Engineer will be on location at all times when drilling takes place at the depth H_2S may be expected. The mud engineer will be able to verify the presence or absence of H2S.

III. CONDITIONS AND EMERGENCY PROCEDURES

A. DEFINITION OF OPERATIONAL "CONDITIONS"

CONDITION I **"POSSIBLE DANGER"**

Warning Flags: Green

Alarms: No Alarm. Less than 10 ppm

Characterized By: Drilling operations in zones that may contain hydrogen sulfide. This condition remains in effect unless H_2S is detected and it becomes necessary to go to Condition II.

General Action:

a. Be alert for a condition change

b. Check all safety equipment for availability and proper functioning.

c. Perform all drills for familiarization and proficiency.

CONDITION II **"MODERATE DANGER"**

Warning Flags: Yellow

Alarms: Actuates at 10 ppm. Continuous flashing light.

Characterized By: Drilling operations in zones containing hydrogen sulfide. This condition will remain in effect until adding chemicals to the mud system neutralizes the hydrogen sulfide or it becomes necessary to go to Condition III.

General Action:

a. Be alert for a condition change

b. WHEN DRILLING AHEAD - Driller and designated crewmember will don 30 min SCBA, shut-in the well and immediately proceed to the Safe Briefing Area.

WHEN TRIPPING – Driller and two designated crewmembers will don 30 min SCBA, shut in the well and immediately proceed to the Safe Briefing Area. The Derrickman will

don a 5-minute escape pack, descend to the rig floor, don a 30-min SCBA (if necessary) and immediately proceed to the Safe Briefing Area.

c. All In Scope Personnel will proceed directly to the appropriate Safe Briefing Area.

d. Remain in safe briefing area, take roll call and wait for instructions

e. Contact the Total H2S Technician if not on location.

f. Personnel shall ensure that their breathing apparatus is properly fitted and operational before entering an H_2S contaminated area to provide assistance to anyone who may be injured or overcome by toxic gases.

g. All Out of Scope Personnel will report to the appropriate Safe Briefing Area.

CONDITION III "EXTREME DANGER"

Warning Flags — Red

Alarms — Actuate at 15 ppm. Continuous Sirens and Flashing Lights

Characterized by: — Critical well operations which pose an immediate threat of H_2S exposure to on-site personnel and a potential threat to the public.

General Action:

a. WHEN DRILLING AHEAD - Driller and designated crewmember will don 30 min SCBA, shut-in the well and immediately proceed to the Safe Briefing Area.

WHEN TRIPPING – Driller and two designated crewmembers will don 30

min SCBA, shut in the well and immediately proceed to the Safe Briefing Area. The Derrickman will don a 5-minute escape pack, descend to the rig floor, don a 30-min SCBA (if necessary) and immediately proceed to the Safe Briefing Area.

b. All In Scope Personnel should don SCBA if nearby and immediately proceed to Safe Briefing Area. If SCBA in not nearby at time of alarm, DO NOT GO TOWARDS RIG AREA, but proceed directly to the Safe Briefing Area

c. All out of Scope Personnel shall evacuate the location.

d. Remain in the Safe Briefing Area, take roll call and wait for instructions.

e. Contact the Total H2S Technician if not on location.

f. Personnel shall ensure that their breathing apparatus is properly fitted and operational before entering an H_2S contaminated area to provide assistance to anyone who may be injured or overcome by toxic gases. Use the buddy system.

g. Remain in safe briefing area, take roll call and wait for instructions.

h. A cascade breathing air systems shall be mobilized and utilized to conduct any additional on rig work required to correct the H2S release condition.

i. If well is ignited do not assume area is safe. SO2 is hazardous and not all H2S will burn.

H_2S EMERGENCY PROCEDURES; IN SCOPE PERSONNEL

A. Day To Day Drilling Operations

1. Upon discovering a release of H_2S gas in the ambient air by warning alarms or in any other way **Do Not Panic**.

2. Hold your breath donning the nearest Self Contained Breathing Apparatus and rapidly move up or across-wind away from the areas where H_2S sensing devices are in place, to the closest available safe briefing area. Continue to use breathing apparatus until it has been determined that the exposure of H_2S gas in the ambient air no longer exists. **Do Not Panic**!

3. Utilize the "Buddy System", i.e.; select and pair up each person participating in the drilling of an H_2S well prior to an emergency situation.

4. Help anyone who is overcome or affected by the H_2S gas by taking him/her up-wind out of the contaminated area. (This should be done utilizing an SCBA and with a buddy.)

5. Take necessary steps to confirm the release of the H_2S gas into the ambient air.

    - When an H2S alarm activates, two designated personnel using the buddy system, while wearing their self contained breathing apparatus, will determine by the read-out on the fixed monitor which sensing device has detected the release of the H_2S gas.

    - They will utilize the hand-held sniffer type device at the particular sensing point disclosed on the fixed monitor to corroborate the fact that H_2S gas has actually been released. This will rule out the possibility of a false alarm. This will be done with a buddy and under mask after reporting to the Safe Briefing Area for roll call and instructions by on-site MRC Foreman.

6. Refer to the Emergency Phone Numbers and call emergency personnel.

7. Take the necessary steps to suppress the release of H_2S gas into the ambient air. Comply with the MRC Energy Co. Representative to physically suppress the release of H_2S gas at the actual release point.

8. Check all of MRC Energy Co.'s monitoring devices and increase gas-monitoring activities with the portable hand-operated H_2S and gas detector units.

Do Not Panic!

The MRC Energy Co. representative will assess the situation and with assistance of the Contractor's Representative and Total Safety's H_2S Safety Technician or on site designee, will assign duties to each person to bring the situation under control.

B. RESPONSIBILITIES OF WELL-SITE PERSONNEL

In the event of a release of potentially hazardous amounts of H_2S, all personnel will immediately don their protective breathing apparatus, the well will be shut in and personnel will proceed upwind to the nearest designated safe briefing area for roll call and instructions by MRC Foreman. Consideration will be given to evacuating Out of Scope Personnel, as situation warrants.

1. MRC ENERGY CO.'S Well-site Representatives

a. If MRC Energy Co.'s well-site representative is incapacitated or not on location, this responsibility will fall to the Toolpusher/Driller.

b. Immediately upon assessing the situation, set this plan into Action by initiating the proper procedures to contain the gas and notify the appropriate people and agencies.

c. Ensure that the alarm area indicated by the fixed H_2S Monitor is checked and verified with a portable H_2S detector. (Safety Technician if on location or MRC assigned designee with a buddy utilizing SCBA's)

d. Consult Pusher/driller of remedial actions as needed.

e. Ensure that non-essential personnel proceed to the safe briefing area.

f. Ensure location entrance barricades are positioned. Keep the number of persons on location to a minimum during hazardous operations.

g. Consult each contractor, Service Company and all others allowed to enter the site, that H2S gas may be encountered and the potential hazards that may exist.

h. Authorize the evacuation of local residents if H_2S threatens Their safety.

i. Non essential personnel should be evacuated from location if Situation warrants.

2. Toolpusher

a. Toolpusher/Driller will assume responsibilities of MRC Energy Co.'s well-site representative if that person is incapacitated or not on location.

b. Ensure that the alarm area indicated by the fixed H_2S monitor is checked and verified with a portable H_2S gas detector. (Alarm area indicated by the monitor will be Checked by the H2S Technician and a buddy, under mask.) This will be done after checking in and roll call at the Upwind Safe Briefing Area.

c. Confer with MRC Energy Co.'s well-site representative or superintendent and direct remedial action to suppress the H_2S and control the well.

d. Ensure that personnel at the safe briefing area are instructed on emergency actions required.

e. Ensure that personnel at the drill floor area are instructed on emergency actions required.

f. Ensure that all personnel observe the appropriate safety and emergency procedures.

g. Ensure that all persons are accounted for and provided emergency assistance as necessary.

3. Mud Engineer

a. Run a sulfide check on the flowline mud.

b. Take steps to determine the source of the H_2S and suppress it. Lime and H_2S scavenger shall be added to the mud as necessary.

4. Total H_2S Safety Technician, if on location, or MRC Designee

a. H2S Safety Technician or designee don nearest SCBA and report to Safe Briefing Area for roll call, take a buddy masked up and check monitor and verify with a portable H_2S detector the alarm area indicated by the fixed H_2S monitor. Advise the Toolpusher/Driller and MRC Energy Co.'s well-site representative of findings. Record all findings.

b. If H_2S is flared, check for sulfur dioxide (SO_2) near the flare as necessary. Take hourly readings at different perimeters, log readings and record on location.

c. Ensure that personnel at the safe briefing area are instructed on emergency actions required.

d. Ensure that the appropriate warning flags are displayed.

e. Ensure that all personnel are in S.C.B.A. as necessary.

f. Ensure that all persons are accounted for and provide emergency assistance as necessary.

g. Be prepared to evacuate rig if order is issued.

5. General Personnel & Visitors

a. All In Scope Personnel, if not specifically designated to shut the well in or control the well, shall proceed to the (upwind) safe briefing area. All Out of Scope Personnel shall immediately proceed to the appropriate (upwind) safe briefing area or evacuate the site as conditions warrant.

b. During any emergency, use the "buddy" system to prevent anyone from entering or being left in a gas area alone, even wearing breathing apparatus.

c. Provide assistance to anyone who may be injured or overcome by toxic gases. Personnel shall ensure that their breathing apparatus is properly fitted and operational before entering a potentially H_2S contaminated area.

d. Remain in safe briefing area and wait for instructions.

C. INSTRUCTIONS FOR IGNITING THE WELL

1. The Toolpusher/Driller will confer with MRC Energy Co.'s well-site representative who will secure the approval of the "Texas Wells Delivery Manager, prior to igniting the well, if at all possible.

   The Toolpusher/Driller will be responsible for igniting the well in the event of severe well control problems. This decision should be made only as a last resort in situations where it is clear that:

   a. Human life and property are endangered, or

   b. There is no hope of controlling the well under current conditions.

2. Once the decision has been made, the following procedures should be followed:

   a. Two people wearing self-contained breathing apparatus will be needed for the actual lighting of the well. They must first establish the flammable perimeter by using an explosimeter. This should be established at 30% to 40% of the lower flammable limits.

   b. After the flammable perimeter has been established and everyone removed from the area, the ignition team should select a site upwind of the well from which to ignite the well. This site should offer the maximum protection and have a clear path for retreat from the area.

c. The ignition team should have safety belts and lifeline attached and manned before attempting ignition. If the leak is not ignited on the first attempt, move in 20 to 30 feet and fire again. Continue to monitor with the explosimeter and NEVER fire from an area with over 75% of the Lower Explosive Limit (LEL). If having trouble igniting the well, try firing 40 degrees to 90 degrees on either side of the well.

d. If ignition is not possible due to the makeup of the gas, the toxic perimeter must be established and evacuation continued until the well is contained.

e. All personnel must act only as directed by the person in charge of the operations.

NOTE: After the well is ignited, burning hydrogen sulfide (H_2S) will convert to sulfur dioxide (SO_2), which is also a highly toxic gas.

DO NOT ASSUME THE AREA IS SAFE AFTER THE WELL IS IGNITED

D. CORING PROCEDURES

Only essential personnel shall be on the rig floor. Ten (10) stands prior to retrieving core barrel; all personnel on drill floor and in derrick shall confirm self-Contained breathing apparatus available and ready for use.

A Total H2S Technician will don a SCBA with a buddy assigned from the rig crew, and continuously monitor for H2S at each connection. Any levels detected will require operations to be shut down and all involved personnel to don SCBAs. Precautions will remain in place until barrel is laid down.

All involved personnel will don SCBAs when removing the inner barrel from the outer barrel. SCBAs can be removed once the absence of H2S in confirmed by the Total H2S Technician.

Cores will be appropriately marked and sealed for transportation.

Normal Operations

1. Responsibilities of well-site personnel

a. Well-site Representative

1. Notify H_2S Technician of expected date to reach Contingency Plan implementation depth (Two (2) days prior to reaching suspected H_2S bearing zone) or prior to starting well work.

2. Ensure H_2S Safety Technician completes rig-up procedures prior to reaching Contingency Plan effective depth.

3. Restrict the number of personnel at the drilling rig or well site to a minimum while drilling, starting well work, testing or coring.

4. Ensure weekly H_2S drills/training are performed, if possible.

B. Toolpusher

1. Ensure that necessary H_2S safety equipment is provided on the rig, and that it is properly inspected and maintained.

2. Ensure that all personnel that work in the well area, are thoroughly trained in the use of H_2S safety equipment and periodic drills are held to maintain an adequate level of proficiency.

C. In Scope Personnel

1. Remain clean-shaven. Beards and long sideburns do not allow a proper facepiece seal.

2. Receive H_2S safety training on location, or confirm prior training by certification that is one year within date.

3. Familiarize yourself with the rig's Contingency Plan.

4. Inspect and practice putting on your breathing apparatus.

5. Know the location of the "safe briefing areas".

6. Keep yourself "wind conscious". Be prepared to quickly move upwind and away in the event of any emergency involving release of H_2S.

D. Total Safety H_2S Safety Technician or MRC Designee

1. Conduct training as necessary to ensure all personnel working in well area are familiar with the contingency procedures and the operation of emergency equipment.

2. Check all H_2S safety equipment to ensure that it is ready for emergency use:

   - Check pressure weekly for each shift on breathing apparatus (both 30-minute and hip-packs) to make sure they are charged to full volume.
   - Check pressure on cascade air bottles, if on location, to see that they are capable of recharging breathing apparatus.
   - Check oxygen resuscitator, if on location, to ensure that it is charged to full volume.
   - Check H_2S detectors weekly for each shift (fixed and portable), and explosimeter, to ensure they are working properly.

3. Provide a weekly report to MRC Energy Co.'s well-site representative documenting:

   - Calibrations performed on H_2S detectors.
   - Proper location and working order of H_2S safety equipment.
   - Attendance of all personnel, trained or retrained, and their company.
   - Weekly drills, if held and a list of personnel participating and summary of actions.

OUT OF SCOPE PERSONNEL

MRC Energy Co. policy will not require Out of Scope Personnel to be clean shaven, have processed medical questionnaires, fit testing, or have certified H2S Training.

SAFETY EQUIPMENT

All respirators will be designed, selected, used and maintained in conformance with ANSI Z88.2, American National Standard for respiratory protection.

Personal protective equipment must be provided and used. Those who are expected to use respiratory equipment in case of an emergency will be carefully instructed in the proper use and told why the equipment is being used. Careful attention will be given to the minute details in order to avoid possible misuse of the equipment during periods of extreme stress.

Self-contained breathing apparatus provides complete respiratory and eye protection in any concentration of toxic gases and under any condition of oxygen deficiency. The wearer is independent of the surrounding atmosphere because he/she is breathing with a system admitting no outside air. It consists of a full face mask, breathing tube, pressure demand regulator, air supply cylinder, and harness. Pure breathing air from the supply cylinder flows to the mask automatically through the pressure demand regulator which reduces the pressure to a breathing level. Upon inhalation, air flows into the mask at a rate precisely regulated to the user's demand. Upon exhalation, the flow to the mask stops and the exhaled breath passes through a valve in the face piece to the surrounding atmosphere. The apparatus includes an alarm & gauge which warns the wearer to leave the contaminated area for a new cylinder of air or cylinder refill.

The derrickman is provided with a full face piece unit attached to a 5– minute escape cylinder. He will also have his own self-contained 30-minute unit breathing apparatus located on the drilling floor. He will use the 5-minute unit to exit the derrick to the floor, donning the 30-minute unit located on the floor, if needed.

All respiratory protective equipment, when not in use, should be stored in a clean, cool, dry place, and out of direct sunlight to retard the deterioration of rubber parts. After each use, the mask assembly will be scrubbed with soap and water, rinsed thoroughly, and dried. Air cylinders can be recharged to a full condition from a cascade system.

Personnel in each crew will be trained in the proper techniques of bottle filling.

The primary piece of equipment to be utilized, should anyone be overcome by hydrogen sulfide, is the oxygen resuscitator, if on location.

When asphyxiation occurs, the victim must be moved to fresh air and immediately given artificial respiration. In order to assure readiness, the bottles of oxygen will be checked at regular intervals and an extra tank kept on hand.

Hand-operated pump-type detectors incorporating detector tubes will give more accurate readings of hydrogen sulfide. The pump-type draws air to be tested through the detector tube containing lead acetate-silica gel granules. Presence of hydrogen sulfide in the air sample is shown by the development of a dark brown stain on the granules, which is the

scale reading of the concentration of hydrogen sulfide. By changing the type of detector tube used, this detector may also be used for sulfur dioxide (SO_2) detection when hydrogen sulfide (H_2S) is being burned in the flare area.

Provisions must be made for the storage of all safety equipment as is evident from the foregoing discussion. All equipment must be stored in an available location so that anyone engaged in normal work situations is no more than "one breath away' from a mask.

V – TOXICITY OF VARIOUS GASES

Common Name	Chemical Formula	Specific Gravity[1]	PEL (OSHA)[2]	STEL[3]	Lethal ppm[4]
Hydrogen Cyanide	HCN	0.94	10	150	300
Hydrogen Sulfide	H_2S	1.18	20	Peak- 50ppm	600
Note: The ACGIH(7) recommends a TWA(6) value of 10ppm as the TLV(5) for H2S and an STEL of 15ppm.					
Sulfur Dioxide	SO_2	2.21	2	5 ppm	1000
Chlorine	CL_2	2.45	1		
Carbon Monoxide	CO	0.97	35	200/1 Hour	1000
Carbon Dioxide	CO_2	1.52	5000	5%	10%
Methane	CH_4	0.55	90000		

[1] **Air = 1.0**

[2] **Permissible -** Concentration at which is believed that all workers may repeatedly be exposed, day after day, without adverse effect.

[3] **STEL -** Short Term Exposure Limit. A 15-minute time weighted average.

[4] **Lethal -** Concentration that will cause death with short-term exposure.

TLV – Threshold Limit Value; a concentration recommended by the American Conference of Governmental Industrial Hygienists (ACGIH)

TWA – Time Weighted Average; the average concentration of contaminant one can be exposed to over a given eight-hour period.

ACGIH – (American Conference of Governmental Industrial Hygienists) is an organization comprised of Occupational Health Professionals believed by many to be the top experts in the field of Industrial Hygiene. They are recognized as an expert rexource by OSHA. The ACGIH releases a bi-annual publication "Threshold Limit Values and Biological Indices" that many safety professionals consider to be the authoritative document on airborne contaminants.
Reference: API RP-49, September 1974 - Reissued August 1978

VI. PROPERTIES OF GASES

A. CARBON DIOXIDE

1. Carbon Dioxide (CO_2) is usually considered inert and is commonly used to extinguish fires. It is 1.52 times heavier than air and will concentrate in low areas of still air. Humans cannot breathe air containing more than 10% CO_2 without losing conscience or becoming disorientation in a few minutes. Continued exposure to CO_2 after being affected will cause convulsions, coma, and respiratory failure.

2. The threshold limit of CO_2 is 5000 ppm. Short-term exposure to 50,000 ppm (5%) is reasonable. This gas is colorless, odorless, and can be tolerated in relatively high concentrations.

B. HYDROGEN SULFIDE

1. Hydrogen Sulfide (H_2S) is a colorless, transparent, flammable gas. It is heavier than air and, hence, may accumulate in low places.

2. Although the slightest presence of H_2S in the air is normally detectable by its characteristic "rotten egg" odor, it is dangerous to rely on the odor as a means of detecting excessive concentrations because the sense of smell is rapidly lost, allowing lethal concentrations to be accumulated without warning. The following table indicates the poisonous nature of H_2S.

CONCENTRATION			EFFECTS
% H_2S	PPM	GR/100 SCF[1]	
0.001	10	.65	Safe for 8 hours without respirator. Obvious and unpleasant odor.
0.0015	15	0.975	Safe for 15 minutes of exposure without respirator.
0.01	100	6.48	Kills smell in 3-15 minutes; may sting eyes and throat.
0.02	200	12.96	Kills smell quickly; stings eyes and throat.
0.05	500	32.96	Dizziness; breathing ceases in a few minutes; need prompt artificial respiration.
0.07	700	45.92	Rapid Unconsciousness; death will result if not rescued promptly.
0.1	1000	64.80	Instant unconsciousness, followed by death within minutes.

[1] Grains per 100 Cubic Feet

VII. Treatment Procedures for Hydrogen Sulfide Poisoning

A. Remove the victim to fresh air.

B. If breathing has ceased or is labored, begin resuscitation immediately.
Note: This is the quickest and preferred method of clearing victim's lungs of contaminated air; however, under disaster conditions, it may not be practical to move the victim to fresh air. In such instances, where those rendering first aid must continue to wear masks, a resuscitator should be used.

C. Apply resuscitator to help purge H_2S from the blood stream.

D. Keep the victim at rest and prevent chilling.

E. Get victim under physician's care as soon as possible.

C. SULPHUR DIOXIDE

1. Sulfur Dioxide (SO_2) is a colorless, non-flammable, transparent gas.

2. SO_2 is produced during the burning of H_2S. Although SO_2 is heavier than air, it can be picked up by a breeze and carried downwind at elevated temperatures. Since SO_2 is extremely irritating to the eyes and mucous membranes of the upper respiratory tract, it has exceptionally good warning powers in this respect. The following table indicates the toxic nature of SO_2:

CONCENTRATION		EFFECTS
% SO_2	PPM	
0.0005	3 to 5	Pungent odor, normally a person can detect SO_2 in this range.
0.0012	12	Throat irritation, coughing, constriction of the chest, tearing and smarting of eyes.
0.015	150	So irritating that it can only be endured for a few minutes.
.05	500	Causes a sense of suffocation, event with the

		first breath.

VIII. BREATHING AIR EQUIPMENT DRILLS FOR ON & OFF DUTY PERSONNEL

An H_2S Drill and Training Session must be given once a week to ALL on-duty personnel with off duty personnel. On-duty and Off-duty personnel will reverse roles on alternate drills.
An H2S drill and training session must be given once a week to all off-duty personnel in coincidence with on-duty personnel reversing roles on alternate drills.

The purpose of this drill is to instruct the crews in the operation and use of breathing air and H_2S related emergency equipment and to allow the personnel to become acquainted with using the equipment under working conditions. The crews should be trained to put on the breathing air equipment within one minute when required or requested to do so.

The following procedure should be used for weekly drills. The MRC supervisor must be satisfied that the crews are proficient with the equipment.

1. All personnel should be informed that a drill will be held.

2. The Total H2S Safety Technician or a designee assigned by the MRC Drilling Foreman should initiate the drill by signaling as he/she would if H2S was detected.

3. Personnel should don their breathing apparatus.

4. Once the breathing air equipment is on, the H2S Technician should check all personnel to insure proper operation.

A training and information session will be conducted after each drill to answer any H_2S related questions and to cover any gaps identified from one of the following topics:

- Condition II, and III alerts and steps to be taken by all personnel.
- The importance of wind direction when dealing with H_2S.
- Proper use and storage of all types of breathing equipment.
- Proper use and storage of oxygen resuscitators.
- Proper use and storage of H_2S detectors (Mini Checks or equivalent).
- The "buddy system" and the procedure for rescuing a person overcome by H_2S.
- Responsibilities and duties.
- Location of H_2S safety equipment.
- Other parts of the "H_2S Contingency Plan" that should be reviewed.

NOTE: A record of attendance must be kept for weekly drills and training sessions.

IX. HYDROGEN SULFIDE TRAINING CURRICULUM

(FOR EMPLOYERS, VISITORS, AND CONTRACTORS)

EACH PERSON WILL BE INFORMED ON THE RESTRICTIONS OF HAVING BEARDS AND CONTACT LENS. THEY WILL ALSO BE INFORMED OF THE AVAILABILITY OF SPECTACLE KITS.

AFTER THE H2S EQUIPMENT IS RIGGED UP, ALL IN SCOPE PERSONNEL WILL BE H2S TRAINED AND PUT THROUGH A DRILL. ANY DEFICIENCIES WILL BE CORRECTED.

Training Completion cards are good for one year and will indicate date of completion or expiration. Personnel previously trained on another facility and visiting, must attend a "supplemental briefing" on H2S equipment and procedures before beginning duty. Visitors who remain on the location more than 24 hours must receive full H2S training given all crew members. A "supplemental briefing" will include but not be limited to: Location of respirators, familiarization with safe briefing areas, alarms with instruction on responsibilities in the event of a release and hazards of H2S and (SO2, if applicable). A training and drill log will be kept.

Topics for full H2S training shall include the following equipment if on location, but not be limited to the following:

1. **Brief Introduction on H2S**
   - A. Slide or Computer presentation (If Available)
   - B. H2S material will be distributed
   - C. Re-emphasize the properties, toxicity, and hazards of H2S
   - D. Source of SO2 (if applicable)

2. **H2S Detection**
   - A. Description of H2S sensors
   - B. Description of warning system (how it works & it's location)
   - C. Actual location of H2S sensors
   - D. Instruction on use of pump type detector (Gastec)
   - E. Use of card detectors, ampoules, or dosimeters
   - F. Use of combustible gas detector
   - G. Other personnel detectors used
   - H. Alarm conditions I & II,
   - I. SO2 alarms (if applicable)

3. **H2S Protection**
   - A. Types of breathing apparatus provided (30-minute SCBA & 5-minute SCBA (with voice diaphragms for communication if supplied)
   - B. Principle of how breathing apparatus works
   - C. Demonstration on how to use breathing apparatus
   - D. Location of breathing apparatus

4. **Cascade System**
   - A. Description of cascade system
   - B. How system works
   - C. Cascade location of rig with reference to briefing areas
   - D. How to use cascade system (with 5-minute hose work line units & refill, if supplied)
   - E. Importance of wind direction and actual location of Windsocks
   - F. Purpose of compressor/function (if one is on site)

5. **H2S Rescue and First Aid**
   - A. Importance of wind direction
   - B. Safe briefing area
   - C. Buddy system
   - D. H2S symptoms
   - E. Methods of rescue

6. **Hands on Training**
   - A. Donning/familiarization of SCBA 30-minue unit
   - B. Donning/familiarization of SKADA 5- MIN. Packs
   - C. Familiarization of cascades
   - D. Use of O2 resuscitator
   - E. Alarm conditions - upwind briefing areas, etc...
   - F. Duties and responsibilities of all personnel
   - G. Procedures for evacuation
   - H. Search and Rescue teams

7. **Certification**
   - A. Testing on material covered

TOTAL SAFETY US INC., FIT TEST

X. EMPLOYEE INFORMATION

Employee Name: _____ Date: _____

Date of Employee Medical Evaluation: _____

Medical Status (circle): Unrestricted Limitations on Use Use Not Authorized

RESPIRATOR INFORMATIOIN

Respirator Type (Dustmask, SCBA, etc):_____

Brand:_____

Size: (circle): XS S M L XL

FIT TEST INFORMATION

Type of Fit Test Performed:

Quantitative

Porta Count	Fit Factor:_____
Fittester 3000	Fit Factor:_____

Qualitative

Irritant Smoke	Passed / Failed
Isoamyl Acetate (Banana Oil)	Passed / Failed
Saccharin	Passed / Failed
Bitrex	Passed / Failed

I hereby certify that this fittest was conducted in accordance with the OSHA Fit Testing Protocols found in Appendix A of 1910.134.

Fit Tester Name (Print):_____

Signature:_____ Date:_____

XI. H_2S SAFETY SERVICES

HYDROGEN SULFIDE SAFETY PACKAGE – Contained on location in Total Safety H2S Equipment Trailer, unless otherwise noted:

RESPIRATORY SAFETY SYSTEMS

QTY	DESCRIPTION
12	30-Minute Pressure Demand SCBA (4-Primary Safe Briefing Area, 4-Secondary Safe Briefing Area, 4-floor with one of these for derrick man)
9	Hose Line 5-minute Work Unit w/Escape Cylinder (1 in derrick, 6 on drill floor, 1 in mud pit wt area, 1 in shaker area)

The following shall be part of the package if requested by the MRC Foremen (at least one trailer with cascade system is required to be located in the MRC Magnolia asset for use as needed)

1	Breathing air cascade of 10 bottles w/regulator
2	Refill lines to refill 30-minute units on location
1	6-Man manifold that can be rigged up to work area on floor, if needed
6	25 foot hose lines
2	50 foot hose lines
100	Feet of hose line to rig cascade up to 12 man manifold on floor
12	30-minute Self Contained Breathing apparatus

DETECTION AND ALARM SAFETY SYSTEM

1	H2S Fixed Monitor w/8Channels (Loc determined at rig up) suggested. (Mud pit area, shaker area, bell nipple area, floor/driller area, & outside quarters)
5	H2S Sensors
3	Explosion Proof Alarms (Light and Siren) (1 on floor, 1 in work area, 1 in trailer area where quarters are located)
2	Personal H2S monitors
1	Portable Tri-Gas Hand Held Meter (O2, LEL, H2S)
1	Sensidyne/Gastech Manual Pump Type Detector
8	Boxes H2S Tubes Various Ranges
2	Boxes SO2 Tubes Various Ranges
1	Calibration Gas
1	Set Paper Work for Records: Training, Cal, Inspection, other

ADDITIONAL SAFETY RELATED EQUIPMENT

QTY	DESCRIPTION
2	Windsocks with Pole and Bracket
1	Set Well Condition Sign w/Green, Yellow, Red Flags
1	Primary Safe Briefing Area Sign
1	Secondary Safe Briefing Area Sign
6	Operating Condition Signs for Work Areas & Living Quarters

TRAILER WITH BREATHING AIR CASCADE WILL ALSO INCLUDE THE FOLLOWING:

This equipment will be part of the H2S equipment stored in the trailer, when on location

1	First aid kit
1	Fire Blanket
1	Eye wash station
2	Safety Harness w/150' safety line

XII. EMERGENCY PHONE NUMBERS (Updated March 18, 2009)

EMERGENCY PHONE NUMBERS

MRC Energy Co. Emergency Phone #
MRC Energy Co. Permian Operations Phone----------
MRC Energy Co. Production
113 Daw Rd
Mansfield LA 71052

Title	Names	Phone	Cell
Operations Manager			
Operation Supt.			
Operations Supervisor			
Operations Supervisor			
Office Supervisor			
HSE			
Scheduler Planner			

Hydrogen Sulfide Safety Consultants

Total Safety W. Bender Blvd. Hobbs, NM	575-392-2973	After Hours 24 Hour Call Center Through Office Number
Tommy Throckmorton Operations Manager	575-392-2973	940-268-9614
Rodney Jourdan Sales Contact	575-392-2973	432-349-3928

MRC Energy Co. MEDICAL RESPONSE PLAN AND IT'S MEDICAL PROTOCOLS WILL BE FOLLOWED

MEDICAL COORDINATOR # ----------

Emergency Numbers & Directions

Hospitals (911)

Artesia General Hospital 702 N. 13th St. Artesia, NM 88210	**Main Phone Number**	**575-748-3333**
Nor-Lea General Hospital 1600 N. Main Ave. Lovington, NM 88260	**Main Phone Number**	**575-396-6611**
Lea Regional Medical Center 5419 N. Lovington Hwy Hobbs, NM 88240	**Main Phone Number**	**575-492-5260**
Carlsbad General Hospital 2430 W. Pierce St. Carlsbad, NM	**Main Phone Number**	**575-887-4100**
Lovelace Regional Hospital 117 E. 19th St Roswell, NM 88201	**Main Phone Number**	**575-627-7000**
Winkler Co. Memorial Hospital 821 Jeffee Dr. Kermit, Texas 79745	**Main Phone Number**	**432-586-8299**
Reeves County Hospital 2323 Texas St. Pecos, Texas 79772	**Main Phone Number**	**432-447-3551**

State Police (911)

Texas DPS Loving co. 225 N.Pecos Mentone, Texas 79754	Office Number	432-377-2411
Texas DPS Winkler Co. 100 E Winkler Kermit, Texas 79745	Office Number	432-586-3465
Texas DPS Pecos Co. 148 N I-20 Frontage RD Pecos, Texas 79772	Office Number	432-447-3532
New Mexico State Police 3300 W. Main St Artesia, NM	Office Number	575-748-9718
New Mexico State Police 304 N. Canyon St Carlsbad, NM 88220	Office Number	575-885-3137
New Mexico State Police 5100 Jack Gomez Blvd. Hobbs, NM 88240	Office Number	575-392-5588

Local Law Enforcement (911) (Sheriff)

Reeves Co. Sheriff 500 N. Oak ST Pecos, Texas 79722	Office Number	432-445-4901
Winkler Co. Sheriff 1300 Bellaire St. Kermit, Texas 79745	Office Number	432-586-3461
Loving Co. Sheriff Courthouse Mentone, Texas	Office Number	432-377-2411
Lea Co. Sheriff 1417 S. Commercial St. Lovington, NM 88260	Office Number	
Eddy Co. Sheriff 305 N 7th St. Artesia, NM 88210	Office Number	575-766-9888
Eddy Co. Sheriff 305 N 7th St. Carlsbad, NM 88220	Office Number	575-746-9888

Federal & State Agencies

OSHA Lubbock Area Office 1205 Texas Av. Room 806 Lubbock, Texas 79401	**Main Number**	**806-472-7681 EXT 7685**
New Mexico Environment Department 400 N Pennsylvania Roswell, NM 88201	**Joe Fresquez**	**575-623-3935**
Texas Railroad Commission Midland, Texas	**Main Number**	**844-773-0305**
BLM Carlsbad, NM Field Office 620 E. Green ST Carlsbad, NM 88220	**Main Number**	**575-234-5972**
BLM Hobbs Field Station 414 W. Taylor Rd. Hobbs, NM 88240	**Main Number**	**575-393-3612**
BLM Roswell District Office 2909 W. Second St. Roswell, NM 88201	**Main Number**	**575-627-0272**
TECQ Texas Commission on Environmental Quality	**Main Number**	**800-832-8224**
New Mexico OCD		
U.S. Environmental Protection Agency Region 6 Texas/New Mexico	**Main Number**	**214-655-2222**
National Response Center Toxic Chemicals & Oil Spills	**Main Number**	**800-424-8802**

Rig Company

XIII. EVACUATION OF THE GENERAL PUBLIC

The procedure to be used in alerting nearby persons in the event of any occurrence that could pose a threat to life or property will be arranged and completed with public officials in detail, prior to drilling into the hydrogen sulfide formations.

In the event of an actual emergency, the following steps will be immediately taken:

1. The MRC Energy Co.'s representative will dispatch sufficient personnel to immediately warn each resident and transients down-wind within radius of exposure from the well site. Then warn all residence in the radius of exposure. Additional evacuation zones may be necessary as the situation warrants.

2. The MRC Energy Co.'s representative will immediately notify proper authorities, including the Sheriff's Office, Highway Patrol, and any other public officials as described above and will enlist their assistance in warning residents and transients in the calculated radius of exposure.

3. The MRC Energy Co.'s representative will dispatch sufficient personnel to divert traffic in the vicinity away from the potentially dangerous area. A guard to the entrance of the well site will be posted to monitor essential and non essential traffic.

4. General:

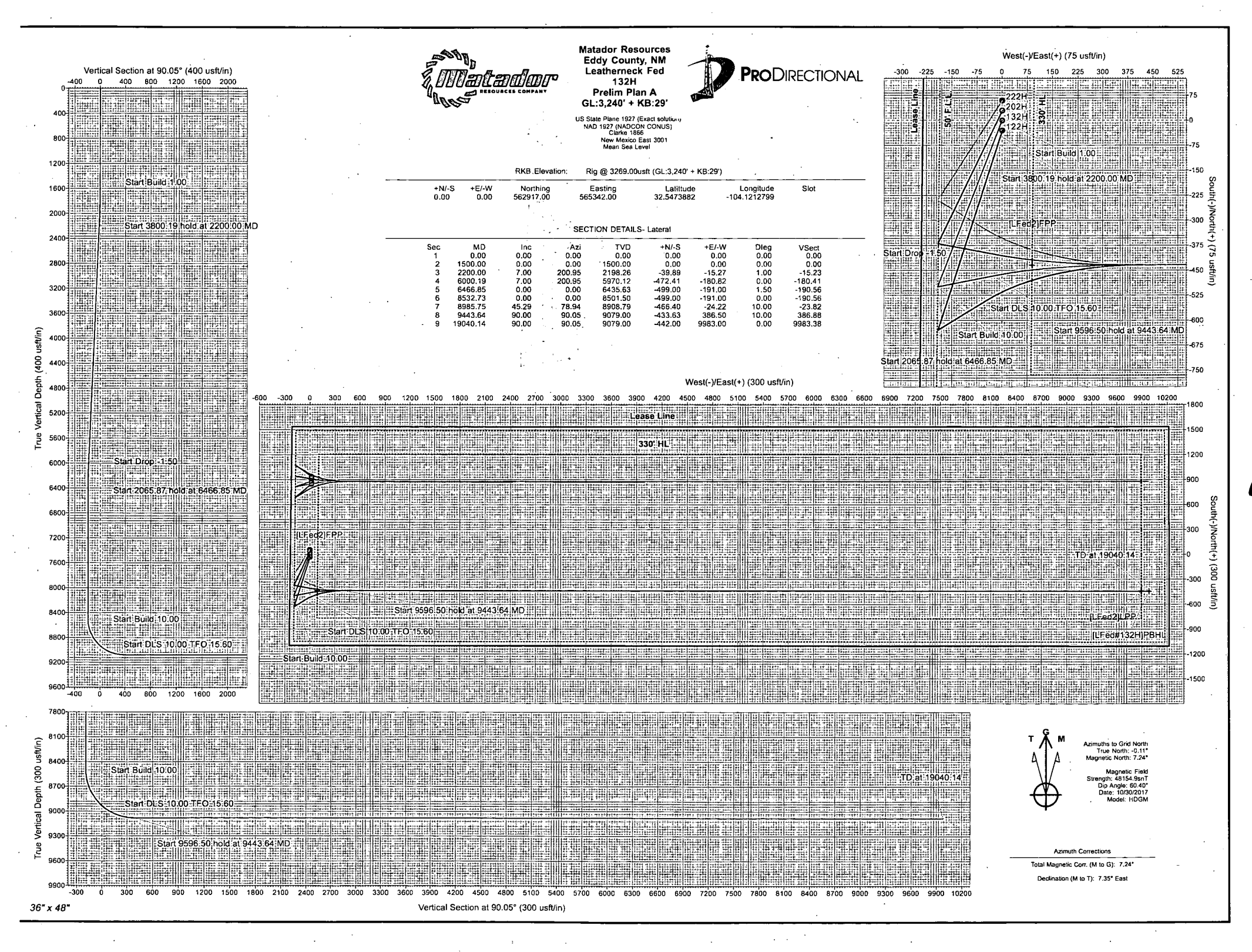
    A. The area included within the radius of exposure is considered to be the zone of maximum potential hazard from a hydrogen sulfide gas escape. Immediate evacuation of public areas, in accordance with the provisions of this contingency plan, is imperative. When it is determined that conditions exist which create an additional area (beyond the initial zone of maximum potential hazard) vulnerable to possible hazard, public areas in the additional hazardous area will be evacuated in accordance with the contingency plan.

    B. In the event of a disaster, after the public areas have been evacuated and traffic stopped, it is expected that local civil authorities will have arrived and within a few hours will have assumed direction of and control of the public, including all public areas. MRC Energy Co. will cooperate with these authorities to the fullest extent and will exert every effort by careful advice to such authorities to prevent panic or rumors.

    C. MRC Energy Co. will dispatch appropriate management personnel at the disaster site as soon as possible. The company's personnel

will cooperate with and provide such information to civil authorities as they might require.

D. One of the products of the combustion of hydrogen sulfide is sulfur dioxide (SO_2). Under certain conditions this gas may be equally as dangerous as H_2S. A pump type detector device, which determines the percent of SO_2 in air through concentrations in ppm, will be available. Although normal air movement is sufficient to dissipate this material to safe levels, the SO_2 detector should be utilized to check concentrations in the proximity of the well once every hour, or as necessary and the situation warrants. Also, if any low areas are suspected of having high concentrations, personnel should be made aware of these areas, and steps should be taken to determine whether or not these low areas are hazardous.


Matador Resources
Eddy County, NM
Leatherneck Fed
132H
Prelim Plan A
GL:3,240' + KB:29'
US State Plane 1927 (Exact solution)
NAD 1927 (NADCON CONUS)
Clarke 1866
New Mexico East 3001
Mean Sea Level
PRODIRECTIONAL
RKB Elevation: Rig @ 3269.00usft (GL:3,240' + KB:29')
+N/-S +E/-W Northing Easting Latitude Longitude Slot
0.00 0.00 562917.00 565342.00 32.5473882 -104.1212799
SECTION DETAILS- Lateral
Sec MD Inc Azi TVD +N/-S +E/-W Dleg VSect
1 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
2 1500.00 0.00 0.00 1500.00 0.00 0.00 0.00 0.00
3 2200.00 7.00 200.95 2198.26 -39.89 -15.27 1.00 -15.23
4 6000.19 7.00 200.95 5970.12 -472.41 -180.82 0.00 -180.41
5 6466.85 0.00 0.00 6435.63 -499.00 -191.00 1.50 -190.56
6 8532.73 0.00 0.00 8501.50 -499.00 -191.00 0.00 -190.56
7 8985.75 45.29 78.94 8908.79 -466.40 -24.22 10.00 -23.82
8 9443.64 90.00 90.05 9079.00 -433.63 386.50 10.00 386.88
9 19040.14 90.00 90.05 9079.00 -442.00 9983.00 0.00 9983.38
Vertical Section at 90.05° (400 usft/in)
True Vertical Depth (400 usft/in)
Start Build 1.00
Start 3800.19 hold at 2200.00 MD
Start Drop -1.50
Start 2065.87 hold at 6466.85 MD
Start Build 10.00
Start DLS 10.00 TFO 15.60
West(-)/East(+) (75 usft/in)
South(-)/North(+) (75 usft/in)
Lease Line
50' FLL
330' HL
222H
202H
132H
122H
Start Build 1.00
Start 3800.19 hold at 2200.00 MD
(LFed2)FPP
Start Drop -1.50
Start DLS 10.00 TFO 15.60
Start Build 10.00
Start 9596.50 hold at 9443.64 MD
Start 2065.87 hold at 6466.85 MD
West(-)/East(+) (300 usft/in)
South(-)/North(+) (300 usft/in)
Lease Line
330' HL
(LFed2)FPP
Start 9596.50 hold at 9443.64 MD
Start DLS 10.00 TFO 15.60
Start Build 10.00
TD at 19040.14
(LFed2)LPP
(LFed#132H)PBHL
True Vertical Depth (300 usft/in)
Start Build 10.00
Start DLS 10.00 TFO 15.60
Start 9596.50 hold at 9443.64 MD
TD at 19040.14
Vertical Section at 90.05° (300 usft/in)
T G M
Azimuths to Grid North
True North: -0.11°
Magnetic North: 7.24°
Magnetic Field
Strength: 48154.9snT
Dip Angle: 60.40°
Date: 10/30/2017
Model: HDGM
Azimuth Corrections
Total Magnetic Corr. (M to G): 7.24°
Declination (M to T): 7.35° East
36" x 48"

Pro Directional

Survey Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well 132H
Project:	Eddy County, NM	**TVD Reference:**	Rig @ 3269.00usft (GL:3,240' + KB:29')
Site:	Leatherneck Fed	**MD Reference:**	Rig @ 3269.00usft (GL:3,240' + KB:29')
Well:	132H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	Prelim Plan A	**Database:**	WellPlanner1

Project Eddy County, NM

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		

Site Leatherneck Fed

Site Position:		**Northing:**	563,857.00 usft	**Latitude:**	32.5499720
From:	Map	**Easting:**	565,361.00 usft	**Longitude:**	-104.1212121
Position Uncertainty:	0.00 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.11 °

Well 132H

Well Position	**+N/-S**	0.00 usft	**Northing:**	562,917.00 usft	**Latitude:**	32.5473882
	+E/-W	0.00 usft	**Easting:**	565,342.00 usft	**Longitude:**	-104.1212798
Position Uncertainty		0.00 usft	**Wellhead Elevation:**	usft	**Ground Level:**	3,240.00 usft

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	10/30/2017	7.35	60.40	48,154.90

Design Prelim Plan A

Audit Notes:

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

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	90.05

Survey Tool Program **Date** 10/31/2017

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	1,200.00	Prelim Plan A (OH)	MWD+HDGM	OWSG MWD + HRGM
1,200.00	8,500.00	Prelim Plan A (OH)	MWD+HDGM	OWSG MWD + HRGM
8,500.00	19,039.92	Prelim Plan A (OH)	MWD+HDGM	OWSG MWD + HRGM

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	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

Pro Directional

Survey Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well 132H
Project:	Eddy County, NM	**TVD Reference:**	Rig @ 3269.00usft (GL:3,240' + KB:29')
Site:	Leatherneck Fed	**MD Reference:**	Rig @ 3269.00usft (GL:3,240' + KB:29')
Well:	132H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	Prelim Plan A	**Database:**	WellPlanner1

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)
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	1.00	200.95	1,599.99	-0.81	-0.31	-0.31	1.00	1.00	0.00
1,700.00	2.00	200.95	1,699.96	-3.26	-1.25	-1.24	1.00	1.00	0.00
1,800.00	3.00	200.95	1,799.86	-7.33	-2.81	-2.80	1.00	1.00	0.00
1,900.00	4.00	200.95	1,899.68	-13.03	-4.99	-4.98	1.00	1.00	0.00
2,000.00	5.00	200.95	1,999.37	-20.36	-7.79	-7.78	1.00	1.00	0.00
2,100.00	6.00	200.95	2,098.90	-29.31	-11.22	-11.19	1.00	1.00	0.00
2,200.00	7.00	200.95	2,198.26	-39.89	-15.27	-15.23	1.00	1.00	0.00
2,300.00	7.00	200.95	2,297.51	-51.27	-19.62	-19.58	0.00	0.00	0.00
2,400.00	7.00	200.95	2,396.77	-62.65	-23.98	-23.93	0.00	0.00	0.00
2,500.00	7.00	200.95	2,496.02	-74.03	-28.34	-28.27	0.00	0.00	0.00
2,600.00	7.00	200.95	2,595.28	-85.41	-32.69	-32.62	0.00	0.00	0.00
2,700.00	7.00	200.95	2,694.53	-96.79	-37.05	-36.96	0.00	0.00	0.00
2,800.00	7.00	200.95	2,793.79	-108.18	-41.41	-41.31	0.00	0.00	0.00
2,900.00	7.00	200.95	2,893.04	-119.56	-45.76	-45.66	0.00	0.00	0.00
3,000.00	7.00	200.95	2,992.30	-130.94	-50.12	-50.00	0.00	0.00	0.00
3,100.00	7.00	200.95	3,091.55	-142.32	-54.48	-54.35	0.00	0.00	0.00
3,200.00	7.00	200.95	3,190.81	-153.70	-58.83	-58.70	0.00	0.00	0.00
3,300.00	7.00	200.95	3,290.06	-165.08	-63.19	-63.04	0.00	0.00	0.00
3,400.00	7.00	200.95	3,389.32	-176.47	-67.54	-67.39	0.00	0.00	0.00
3,500.00	7.00	200.95	3,488.57	-187.85	-71.90	-71.74	0.00	0.00	0.00
3,600.00	7.00	200.95	3,587.82	-199.23	-76.26	-76.08	0.00	0.00	0.00
3,700.00	7.00	200.95	3,687.08	-210.61	-80.61	-80.43	0.00	0.00	0.00
3,800.00	7.00	200.95	3,786.33	-221.99	-84.97	-84.78	0.00	0.00	0.00
3,900.00	7.00	200.95	3,885.59	-233.37	-89.33	-89.12	0.00	0.00	0.00
4,000.00	7.00	200.95	3,984.84	-244.76	-93.68	-93.47	0.00	0.00	0.00
4,100.00	7.00	200.95	4,084.10	-256.14	-98.04	-97.82	0.00	0.00	0.00
4,200.00	7.00	200.95	4,183.35	-267.52	-102.40	-102.16	0.00	0.00	0.00
4,300.00	7.00	200.95	4,282.61	-278.90	-106.75	-106.51	0.00	0.00	0.00
4,400.00	7.00	200.95	4,381.86	-290.28	-111.11	-110.86	0.00	0.00	0.00
4,500.00	7.00	200.95	4,481.12	-301.66	-115.47	-115.20	0.00	0.00	0.00
4,600.00	7.00	200.95	4,580.37	-313.05	-119.82	-119.55	0.00	0.00	0.00
4,700.00	7.00	200.95	4,679.63	-324.43	-124.18	-123.90	0.00	0.00	0.00
4,800.00	7.00	200.95	4,778.88	-335.81	-128.54	-128.24	0.00	0.00	0.00
4,900.00	7.00	200.95	4,878.13	-347.19	-132.89	-132.59	0.00	0.00	0.00
5,000.00	7.00	200.95	4,977.39	-358.57	-137.25	-136.94	0.00	0.00	0.00
5,100.00	7.00	200.95	5,076.64	-369.95	-141.61	-141.28	0.00	0.00	0.00

Pro Directional

Survey Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well 132H
Project:	Eddy County, NM	**TVD Reference:**	Rig @ 3269.00usft (GL:3,240' + KB:29')
Site:	Leatherneck Fed	**MD Reference:**	Rig @ 3269.00usft (GL:3,240' + KB:29')
Well:	132H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	Prelim Plan A	**Database:**	WellPlanner1

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)
5,200.00	7.00	200.95	5,175.90	-381.34	-145.96	-145.63	0.00	0.00	0.00
5,300.00	7.00	200.95	5,275.15	-392.72	-150.32	-149.98	0.00	0.00	0.00
5,400.00	7.00	200.95	5,374.41	-404.10	-154.68	-154.32	0.00	0.00	0.00
5,500.00	7.00	200.95	5,473.66	-415.48	-159.03	-158.67	0.00	0.00	0.00
5,600.00	7.00	200.95	5,572.92	-426.86	-163.39	-163.02	0.00	0.00	0.00
5,700.00	7.00	200.95	5,672.17	-438.24	-167.74	-167.36	0.00	0.00	0.00
5,800.00	7.00	200.95	5,771.43	-449.63	-172.10	-171.71	0.00	0.00	0.00
5,900.00	7.00	200.95	5,870.68	-461.01	-176.46	-176.06	0.00	0.00	0.00
6,000.19	7.00	200.95	5,970.12	-472.41	-180.82	-180.41	0.00	0.00	0.00
6,100.00	5.50	200.95	6,069.34	-482.56	-184.71	-184.29	1.50	-1.50	0.00
6,200.00	4.00	200.95	6,168.99	-490.30	-187.67	-187.24	1.50	-1.50	0.00
6,300.00	2.50	200.95	6,268.83	-495.60	-189.70	-189.26	1.50	-1.50	0.00
6,400.00	1.00	200.95	6,368.78	-498.45	-190.79	-190.36	1.50	-1.50	0.00
6,466.85	0.00	0.00	6,435.63	-499.00	-191.00	-190.56	1.50	-1.50	0.00
6,500.00	0.00	0.00	6,468.77	-499.00	-191.00	-190.56	0.00	0.00	0.00
6,600.00	0.00	0.00	6,568.77	-499.00	-191.00	-190.56	0.00	0.00	0.00
6,700.00	0.00	0.00	6,668.77	-499.00	-191.00	-190.56	0.00	0.00	0.00
6,800.00	0.00	0.00	6,768.77	-499.00	-191.00	-190.56	0.00	0.00	0.00
6,900.00	0.00	0.00	6,868.77	-499.00	-191.00	-190.56	0.00	0.00	0.00
7,000.00	0.00	0.00	6,968.77	-499.00	-191.00	-190.56	0.00	0.00	0.00
7,100.00	0.00	0.00	7,068.77	-499.00	-191.00	-190.56	0.00	0.00	0.00
7,200.00	0.00	0.00	7,168.77	-499.00	-191.00	-190.56	0.00	0.00	0.00
7,300.00	0.00	0.00	7,268.77	-499.00	-191.00	-190.56	0.00	0.00	0.00
7,400.00	0.00	0.00	7,368.77	-499.00	-191.00	-190.56	0.00	0.00	0.00
7,500.00	0.00	0.00	7,468.77	-499.00	-191.00	-190.56	0.00	0.00	0.00
7,600.00	0.00	0.00	7,568.77	-499.00	-191.00	-190.56	0.00	0.00	0.00
7,700.00	0.00	0.00	7,668.77	-499.00	-191.00	-190.56	0.00	0.00	0.00
7,800.00	0.00	0.00	7,768.77	-499.00	-191.00	-190.56	0.00	0.00	0.00
7,900.00	0.00	0.00	7,868.77	-499.00	-191.00	-190.56	0.00	0.00	0.00
8,000.00	0.00	0.00	7,968.77	-499.00	-191.00	-190.56	0.00	0.00	0.00
8,100.00	0.00	0.00	8,068.77	-499.00	-191.00	-190.56	0.00	0.00	0.00
8,200.00	0.00	0.00	8,168.77	-499.00	-191.00	-190.56	0.00	0.00	0.00
8,300.00	0.00	0.00	8,268.77	-499.00	-191.00	-190.56	0.00	0.00	0.00
8,400.00	0.00	0.00	8,368.77	-499.00	-191.00	-190.56	0.00	0.00	0.00
8,500.00	0.00	0.00	8,468.77	-499.00	-191.00	-190.56	0.00	0.00	0.00
8,532.73	0.00	0.00	8,501.50	-499.00	-191.00	-190.56	0.00	0.00	0.00
8,550.00	1.73	78.94	8,518.77	-498.95	-190.74	-190.31	10.00	10.00	0.00
8,600.00	6.73	78.94	8,568.62	-498.24	-187.13	-186.69	10.00	10.00	0.00
8,650.00	11.73	78.94	8,617.96	-496.71	-179.26	-178.83	10.00	10.00	0.00
8,700.00	16.72	78.94	8,666.41	-494.35	-167.21	-166.78	10.00	10.00	0.00
8,750.00	21.72	78.94	8,713.61	-491.19	-151.06	-150.63	10.00	10.00	0.00
8,800.00	26.72	78.94	8,759.19	-487.26	-130.93	-130.51	10.00	10.00	0.00
8,850.00	31.72	78.94	8,802.81	-482.58	-106.98	-106.56	10.00	10.00	0.00

Pro Directional

Survey Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well 132H
Project:	Eddy County, NM	**TVD Reference:**	Rig @ 3269.00usft (GL:3,240' + KB:29')
Site:	Leatherneck Fed	**MD Reference:**	Rig @ 3269.00usft (GL:3,240' + KB:29')
Well:	132H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	Prelim Plan A	**Database:**	WellPlanner1

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)
8,900.00	36.72	78.94	8,844.14	-477.19	-79.39	-78.98	10.00	10.00	0.00
8,950.00	41.72	78.94	8,882.87	-471.12	-48.38	-47.96	10.00	10.00	0.00
8,985.75	45.29	78.94	8,908.79	-466.40	-24.22	-23.82	10.00	10.00	0.00
9,000.00	46.67	79.47	8,918.69	-464.48	-14.16	-13.75	10.00	9.64	3.70
9,050.00	51.50	81.14	8,951.43	-458.14	23.08	23.48	10.00	9.67	3.35
9,100.00	56.36	82.61	8,980.86	-452.45	63.07	63.47	10.00	9.71	2.93
9,150.00	61.23	83.91	9,006.76	-447.44	105.53	105.92	10.00	9.75	2.61
9,200.00	66.12	85.11	9,028.92	-443.17	150.13	150.52	10.00	9.77	2.38
9,250.00	71.01	86.21	9,047.19	-439.65	196.52	196.91	10.00	9.79	2.21
9,300.00	75.91	87.25	9,061.42	-436.92	244.36	244.74	10.00	9.80	2.08
9,350.00	80.81	88.25	9,071.51	-435.00	293.28	293.66	10.00	9.81	1.99
9,400.00	85.72	89.21	9,077.37	-433.90	342.91	343.28	10.00	9.81	1.94
9,443.64	90.00	90.05	9,079.00	-433.63	386.50	386.88	10.00	9.81	1.91
9,500.00	90.00	90.05	9,079.00	-433.67	442.86	443.24	0.00	0.00	0.00
9,600.00	90.00	90.05	9,079.00	-433.76	542.86	543.24	0.00	0.00	0.00
9,700.00	90.00	90.05	9,079.00	-433.85	642.86	643.24	0.00	0.00	0.00
9,800.00	90.00	90.05	9,079.00	-433.94	742.86	743.24	0.00	0.00	0.00
9,900.00	90.00	90.05	9,079.00	-434.02	842.86	843.24	0.00	0.00	0.00
10,000.00	90.00	90.05	9,079.00	-434.11	942.86	943.24	0.00	0.00	0.00
10,100.00	90.00	90.05	9,079.00	-434.20	1,042.86	1,043.24	0.00	0.00	0.00
10,200.00	90.00	90.05	9,079.00	-434.29	1,142.86	1,143.24	0.00	0.00	0.00
10,300.00	90.00	90.05	9,079.00	-434.37	1,242.86	1,243.24	0.00	0.00	0.00
10,400.00	90.00	90.05	9,079.00	-434.46	1,342.86	1,343.24	0.00	0.00	0.00
10,500.00	90.00	90.05	9,079.00	-434.55	1,442.86	1,443.24	0.00	0.00	0.00
10,600.00	90.00	90.05	9,079.00	-434.63	1,542.86	1,543.24	0.00	0.00	0.00
10,700.00	90.00	90.05	9,079.00	-434.72	1,642.86	1,643.24	0.00	0.00	0.00
10,800.00	90.00	90.05	9,079.00	-434.81	1,742.86	1,743.24	0.00	0.00	0.00
10,900.00	90.00	90.05	9,079.00	-434.90	1,842.86	1,843.24	0.00	0.00	0.00
11,000.00	90.00	90.05	9,079.00	-434.98	1,942.86	1,943.24	0.00	0.00	0.00
11,100.00	90.00	90.05	9,079.00	-435.07	2,042.86	2,043.24	0.00	0.00	0.00
11,200.00	90.00	90.05	9,079.00	-435.16	2,142.86	2,143.24	0.00	0.00	0.00
11,300.00	90.00	90.05	9,079.00	-435.25	2,242.86	2,243.24	0.00	0.00	0.00
11,400.00	90.00	90.05	9,079.00	-435.33	2,342.86	2,343.24	0.00	0.00	0.00
11,500.00	90.00	90.05	9,079.00	-435.42	2,442.86	2,443.24	0.00	0.00	0.00
11,600.00	90.00	90.05	9,079.00	-435.51	2,542.86	2,543.24	0.00	0.00	0.00
11,700.00	90.00	90.05	9,079.00	-435.59	2,642.86	2,643.24	0.00	0.00	0.00
11,800.00	90.00	90.05	9,079.00	-435.68	2,742.86	2,743.24	0.00	0.00	0.00
11,900.00	90.00	90.05	9,079.00	-435.77	2,842.86	2,843.24	0.00	0.00	0.00
12,000.00	90.00	90.05	9,079.00	-435.86	2,942.86	2,943.24	0.00	0.00	0.00
12,100.00	90.00	90.05	9,079.00	-435.94	3,042.86	3,043.24	0.00	0.00	0.00
12,200.00	90.00	90.05	9,079.00	-436.03	3,142.86	3,143.24	0.00	0.00	0.00
12,300.00	90.00	90.05	9,079.00	-436.12	3,242.86	3,243.24	0.00	0.00	0.00
12,400.00	90.00	90.05	9,079.00	-436.21	3,342.86	3,343.24	0.00	0.00	0.00
12,500.00	90.00	90.05	9,079.00	-436.29	3,442.86	3,443.24	0.00	0.00	0.00

Pro Directional

Survey Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well 132H
Project:	Eddy County, NM	**TVD Reference:**	Rig @ 3269.00usft (GL:3,240' + KB:29')
Site:	Leatherneck Fed	**MD Reference:**	Rig @ 3269.00usft (GL:3,240' + KB:29')
Well:	132H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	Prelim Plan A	**Database:**	WellPlanner1

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)
12,600.00	90.00	90.05	9,079.00	-436.38	3,542.86	3,543.24	0.00	0.00	0.00
12,700.00	90.00	90.05	9,079.00	-436.47	3,642.86	3,643.24	0.00	0.00	0.00
12,800.00	90.00	90.05	9,079.00	-436.55	3,742.86	3,743.24	0.00	0.00	0.00
12,900.00	90.00	90.05	9,079.00	-436.64	3,842.86	3,843.24	0.00	0.00	0.00
13,000.00	90.00	90.05	9,079.00	-436.73	3,942.86	3,943.24	0.00	0.00	0.00
13,100.00	90.00	90.05	9,079.00	-436.82	4,042.86	4,043.24	0.00	0.00	0.00
13,200.00	90.00	90.05	9,079.00	-436.90	4,142.86	4,143.24	0.00	0.00	0.00
13,300.00	90.00	90.05	9,079.00	-436.99	4,242.86	4,243.24	0.00	0.00	0.00
13,400.00	90.00	90.05	9,079.00	-437.08	4,342.86	4,343.24	0.00	0.00	0.00
13,500.00	90.00	90.05	9,079.00	-437.17	4,442.86	4,443.24	0.00	0.00	0.00
13,600.00	90.00	90.05	9,079.00	-437.25	4,542.86	4,543.24	0.00	0.00	0.00
13,700.00	90.00	90.05	9,079.00	-437.34	4,642.86	4,643.24	0.00	0.00	0.00
13,800.00	90.00	90.05	9,079.00	-437.43	4,742.86	4,743.24	0.00	0.00	0.00
13,900.00	90.00	90.05	9,079.00	-437.51	4,842.86	4,843.24	0.00	0.00	0.00
14,000.00	90.00	90.05	9,079.00	-437.60	4,942.86	4,943.24	0.00	0.00	0.00
14,100.00	90.00	90.05	9,079.00	-437.69	5,042.86	5,043.24	0.00	0.00	0.00
14,200.00	90.00	90.05	9,079.00	-437.78	5,142.86	5,143.24	0.00	0.00	0.00
14,300.00	90.00	90.05	9,079.00	-437.86	5,242.86	5,243.24	0.00	0.00	0.00
14,400.00	90.00	90.05	9,079.00	-437.95	5,342.86	5,343.24	0.00	0.00	0.00
14,500.00	90.00	90.05	9,079.00	-438.04	5,442.86	5,443.24	0.00	0.00	0.00
14,600.00	90.00	90.05	9,079.00	-438.13	5,542.86	5,543.24	0.00	0.00	0.00
14,700.00	90.00	90.05	9,079.00	-438.21	5,642.86	5,643.24	0.00	0.00	0.00
14,800.00	90.00	90.05	9,079.00	-438.30	5,742.86	5,743.24	0.00	0.00	0.00
14,900.00	90.00	90.05	9,079.00	-438.39	5,842.86	5,843.24	0.00	0.00	0.00
15,000.00	90.00	90.05	9,079.00	-438.47	5,942.86	5,943.24	0.00	0.00	0.00
15,100.00	90.00	90.05	9,079.00	-438.56	6,042.86	6,043.24	0.00	0.00	0.00
15,200.00	90.00	90.05	9,079.00	-438.65	6,142.86	6,143.24	0.00	0.00	0.00
15,300.00	90.00	90.05	9,079.00	-438.74	6,242.86	6,243.24	0.00	0.00	0.00
15,400.00	90.00	90.05	9,079.00	-438.82	6,342.86	6,343.24	0.00	0.00	0.00
15,500.00	90.00	90.05	9,079.00	-438.91	6,442.86	6,443.24	0.00	0.00	0.00
15,600.00	90.00	90.05	9,079.00	-439.00	6,542.86	6,543.24	0.00	0.00	0.00
15,700.00	90.00	90.05	9,079.00	-439.09	6,642.86	6,643.24	0.00	0.00	0.00
15,800.00	90.00	90.05	9,079.00	-439.17	6,742.86	6,743.24	0.00	0.00	0.00
15,900.00	90.00	90.05	9,079.00	-439.26	6,842.86	6,843.24	0.00	0.00	0.00
16,000.00	90.00	90.05	9,079.00	-439.35	6,942.86	6,943.24	0.00	0.00	0.00
16,100.00	90.00	90.05	9,079.00	-439.43	7,042.86	7,043.24	0.00	0.00	0.00
16,200.00	90.00	90.05	9,079.00	-439.52	7,142.86	7,143.24	0.00	0.00	0.00
16,300.00	90.00	90.05	9,079.00	-439.61	7,242.86	7,243.24	0.00	0.00	0.00
16,400.00	90.00	90.05	9,079.00	-439.70	7,342.86	7,343.24	0.00	0.00	0.00
16,500.00	90.00	90.05	9,079.00	-439.78	7,442.86	7,443.24	0.00	0.00	0.00
16,600.00	90.00	90.05	9,079.00	-439.87	7,542.86	7,543.24	0.00	0.00	0.00
16,700.00	90.00	90.05	9,079.00	-439.96	7,642.86	7,643.24	0.00	0.00	0.00
16,800.00	90.00	90.05	9,079.00	-440.05	7,742.86	7,743.24	0.00	0.00	0.00

Pro Directional

Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well 132H
Project:	Eddy County, NM	**TVD Reference:**	Rig @ 3269.00usft (GL:3,240' + KB:29')
Reference Site:	Leatherneck Fed	**MD Reference:**	Rig @ 3269.00usft (GL:3,240' + KB:29')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	132H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	WellPlanner1
Reference Design:	Prelim Plan A	**Offset TVD Reference:**	Offset Datum

Reference	Prelim Plan A		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD Interval 100.00usft	**Error Model:**	ISCWSA
Depth Range:	Unlimited	**Scan Method:**	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 1,750.59 usft	**Error Surface:**	Pedal Curve
Warning Levels Evaluated at:	2.00 **Sigma**	**Casing Method:**	Not applied

Survey Tool Program **Date** 10/31/2017

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	1,200.00	Prelim Plan A (OH)	MWD+HDGM	OWSG MWD + HRGM
1,200.00	8,500.00	Prelim Plan A (OH)	MWD+HDGM	OWSG MWD + HRGM
8,500.00	19,039.92	Prelim Plan A (OH)	MWD+HDGM	OWSG MWD + HRGM

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
Leatherneck Fed						
121H - OH - Prelim Plan A	1,400.00	1,398.00	940.19	931.63	109.752	CC, ES
121H - OH - Prelim Plan A	7,800.00	7,882.82	1,452.92	1,407.33	31.872	SF
122H - OH - Prelim Plan A	1,400.00	1,399.00	30.00	21.43	3.502	CC, ES
122H - OH - Prelim Plan A	7,470.25	7,491.11	110.68	65.17	2.432	SF
131H - OH - Prelim Plan A	1,400.00	1,398.00	910.20	901.63	106.251	CC
131H - OH - Prelim Plan A	19,040.14	18,990.35	1,320.05	854.28	2.834	ES, SF
201H - OH - Prelim Plan A	1,557.92	1,564.30	879.74	870.95	100.122	CC
201H - OH - Prelim Plan A	19,040.14	19,179.60	1,331.81	869.93	2.883	ES, SF
202H - OH - Prelim Plan A	1,500.00	1,500.00	30.00	20.51	3.162	CC
202H - OH - Prelim Plan A	19,040.14	19,211.29	180.00	18.45	1.114	Level 2, ES, SF
221H - OH - Prelim Plan A	1,823.88	1,867.11	847.55	838.08	89.478	CC
221H - OH - Prelim Plan A	1,900.00	1,946.32	847.80	838.08	87.153	ES
221H - OH - Prelim Plan A	19,040.14	19,444.41	1,386.12	940.58	3.111	SF
222H - OH - Prelim Plan A	1,500.00	1,500.00	60.00	50.51	6.323	CC, ES
222H - OH - Prelim Plan A	19,040.14	19,461.67	421.00	259.18	2.602	SF

Offset Design Leatherneck Fed - 121H - OH - Prelim Plan A — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+HDGM, 1200-MWD+HDGM, 7100-MWD+HDGM — **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)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	2.00	-2.00	0.00	0.00	1.16	940.00	19.00	940.19				
100.00	100.00	102.00	98.00	0.13	0.13	1.16	940.00	19.00	940.19	939.93	0.26	3,592.845	
200.00	200.00	202.00	198.00	0.49	0.49	1.16	940.00	19.00	940.19	939.21	0.98	960.725	
300.00	300.00	302.00	298.00	0.84	0.85	1.16	940.00	19.00	940.19	938.50	1.70	554.499	
400.00	400.00	402.00	398.00	1.20	1.21	1.16	940.00	19.00	940.19	937.78	2.41	389.715	
500.00	500.00	502.00	498.00	1.56	1.57	1.16	940.00	19.00	940.19	937.06	3.13	300.433	
600.00	600.00	602.00	598.00	1.92	1.93	1.16	940.00	19.00	940.19	936.35	3.85	244.434	
700.00	700.00	702.00	698.00	2.28	2.29	1.16	940.00	19.00	940.19	935.63	4.56	206.031	
800.00	800.00	802.00	798.00	2.64	2.64	1.16	940.00	19.00	940.19	934.91	5.28	178.057	
900.00	900.00	902.00	898.00	3.00	3.00	1.16	940.00	19.00	940.19	934.19	6.00	156.771	
1,000.00	1,000.00	1,002.00	998.00	3.35	3.36	1.16	940.00	19.00	940.19	933.48	6.71	140.031	

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

Pro Directional

Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well 132H
Project:	Eddy County, NM	**TVD Reference:**	Rig @ 3269.00usft (GL:3,240' + KB:29')
Reference Site:	Leatherneck Fed	**MD Reference:**	Rig @ 3269.00usft (GL:3,240' + KB:29')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	132H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	WellPlanner1
Reference Design:	Prelim Plan A	**Offset TVD Reference:**	Offset Datum

Offset Design Leatherneck Fed - 121H - OH - Prelim Plan A — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+HDGM, 1200-MWD+HDGM, 7100-MWD+HDGM — **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)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
1,100.00	1,100.00	1,102.00	1,098.00	3.71	3.72	1.16	940.00	19.00	940.19	932.76	7.43	126.521	
1,200.00	1,200.00	1,202.00	1,198.00	4.07	4.07	1.16	940.00	19.00	940.19	932.05	8.14	115.438	
1,300.00	1,300.00	1,302.00	1,298.00	4.25	4.25	1.16	940.00	19.00	940.19	931.68	8.51	110.513	
1,400.00	1,400.00	1,398.00	1,398.00	4.28	4.28	1.16	940.00	19.00	940.19	931.63	8.57	109.752	CC, ES
1,500.00	1,500.00	1,489.90	1,489.90	4.34	4.34	1.12	940.40	18.42	940.61	931.93	8.68	108.372	
1,600.00	1,599.99	1,581.58	1,581.55	4.43	4.41	160.08	941.63	16.63	942.74	933.90	8.84	106.651	
1,700.00	1,699.96	1,673.11	1,673.01	4.53	4.51	159.93	943.68	13.63	947.38	938.34	9.05	104.741	
1,800.00	1,799.86	1,764.41	1,764.17	4.67	4.63	159.73	946.55	9.44	954.56	945.26	9.30	102.669	
1,900.00	1,899.68	1,855.38	1,854.90	4.82	4.78	159.49	950.22	4.08	964.25	954.66	9.59	100.514	
2,000.00	1,999.37	1,950.34	1,949.51	5.00	4.95	159.20	954.80	-2.60	976.35	966.42	9.94	98.245	
2,100.00	2,098.90	2,049.30	2,048.10	5.21	5.14	158.93	959.68	-9.72	990.20	979.87	10.33	95.847	
2,200.00	2,198.26	2,148.05	2,146.47	5.43	5.36	158.70	964.55	-16.82	1,005.67	994.91	10.76	93.465	
2,300.00	2,297.51	2,246.68	2,244.73	5.68	5.59	158.54	969.40	-23.91	1,021.94	1,010.72	11.22	91.091	
2,400.00	2,396.77	2,345.31	2,342.98	5.94	5.83	158.39	974.26	-31.00	1,038.23	1,026.52	11.71	88.693	
2,500.00	2,496.02	2,443.94	2,441.24	6.22	6.09	158.25	979.12	-38.09	1,054.52	1,042.30	12.22	86.311	
2,600.00	2,595.28	2,542.57	2,539.49	6.51	6.36	158.11	983.98	-45.18	1,070.82	1,058.07	12.75	83.975	
2,700.00	2,694.53	2,641.20	2,637.74	6.81	6.64	157.97	988.84	-52.27	1,087.12	1,073.82	13.30	81.708	
2,800.00	2,793.79	2,739.83	2,736.00	7.12	6.93	157.84	993.70	-59.36	1,103.43	1,089.56	13.88	79.524	
2,900.00	2,893.04	2,838.46	2,834.25	7.44	7.23	157.71	998.56	-66.45	1,119.75	1,105.29	14.46	77.433	
3,000.00	2,992.30	2,937.09	2,932.51	7.77	7.53	157.59	1,003.42	-73.55	1,136.07	1,121.01	15.06	75.437	
3,100.00	3,091.55	3,035.72	3,030.76	8.10	7.84	157.46	1,008.28	-80.64	1,152.40	1,136.73	15.67	73.539	
3,200.00	3,190.81	3,134.34	3,129.01	8.44	8.15	157.35	1,013.14	-87.73	1,168.73	1,152.44	16.29	71.737	
3,300.00	3,290.06	3,232.97	3,227.27	8.78	8.47	157.23	1,018.00	-94.82	1,185.06	1,168.14	16.92	70.029	
3,400.00	3,389.32	3,331.60	3,325.52	9.13	8.79	157.12	1,022.86	-101.91	1,201.40	1,183.84	17.56	68.412	
3,500.00	3,488.57	3,430.23	3,423.78	9.48	9.12	157.01	1,027.72	-109.00	1,217.75	1,199.54	18.21	66.881	
3,600.00	3,587.82	3,528.86	3,522.03	9.84	9.45	156.91	1,032.58	-116.09	1,234.10	1,215.24	18.86	65.431	
3,700.00	3,687.08	3,627.49	3,620.28	10.19	9.78	156.80	1,037.43	-123.18	1,250.45	1,230.93	19.52	64.060	
3,800.00	3,786.33	3,726.12	3,718.54	10.56	10.12	156.70	1,042.29	-130.27	1,266.81	1,246.62	20.18	62.761	
3,900.00	3,885.59	3,824.75	3,816.79	10.92	10.45	156.61	1,047.15	-137.36	1,283.17	1,262.31	20.85	61.530	
4,000.00	3,984.84	3,923.38	3,915.05	11.29	10.79	156.51	1,052.01	-144.45	1,299.53	1,278.00	21.53	60.364	
4,100.00	4,084.10	4,022.01	4,013.30	11.65	11.14	156.42	1,056.87	-151.55	1,315.90	1,293.69	22.21	59.257	
4,200.00	4,183.35	4,120.64	4,111.55	12.03	11.48	156.33	1,061.73	-158.64	1,332.27	1,309.38	22.89	58.207	
4,300.00	4,282.61	4,219.27	4,209.81	12.40	11.83	156.24	1,066.59	-165.73	1,348.64	1,325.07	23.57	57.210	
4,400.00	4,381.86	4,343.90	4,334.11	12.77	12.26	156.20	1,071.66	-173.12	1,364.12	1,339.75	24.37	55.978	
4,500.00	4,481.12	4,470.29	4,460.40	13.15	12.68	156.29	1,074.45	-177.20	1,377.62	1,352.47	25.16	54.759	
4,600.00	4,580.37	4,588.27	4,578.37	13.52	13.07	156.50	1,075.00	-178.00	1,389.26	1,363.36	25.90	53.638	
4,700.00	4,679.63	4,687.52	4,677.63	13.90	13.39	156.70	1,075.00	-178.00	1,400.46	1,373.89	26.57	52.703	
4,800.00	4,778.88	4,786.78	4,776.88	14.28	13.71	156.89	1,075.00	-178.00	1,411.68	1,384.43	27.25	51.810	
4,900.00	4,878.13	4,886.03	4,876.13	14.66	14.03	157.08	1,075.00	-178.00	1,422.91	1,394.98	27.92	50.957	
5,000.00	4,977.39	4,985.29	4,975.39	15.04	14.36	157.27	1,075.00	-178.00	1,434.15	1,405.55	28.60	50.140	
5,100.00	5,076.64	5,084.54	5,074.64	15.42	14.69	157.46	1,075.00	-178.00	1,445.41	1,416.13	29.28	49.358	
5,200.00	5,175.90	5,183.80	5,173.90	15.81	15.01	157.64	1,075.00	-178.00	1,456.69	1,426.72	29.97	48.609	
5,300.00	5,275.15	5,283.05	5,273.15	16.19	15.34	157.82	1,075.00	-178.00	1,467.98	1,437.33	30.65	47.891	
5,400.00	5,374.41	5,382.31	5,372.41	16.57	15.67	158.00	1,075.00	-178.00	1,479.28	1,447.94	31.34	47.203	
5,500.00	5,473.66	5,481.56	5,471.66	16.96	16.00	158.18	1,075.00	-178.00	1,490.60	1,458.57	32.03	46.542	
5,600.00	5,572.92	5,580.81	5,570.92	17.34	16.34	158.35	1,075.00	-178.00	1,501.93	1,469.22	32.72	45.907	
5,700.00	5,672.17	5,680.07	5,670.17	17.73	16.67	158.52	1,075.00	-178.00	1,513.28	1,479.87	33.41	45.297	
5,800.00	5,771.43	5,779.32	5,769.43	18.12	17.00	158.69	1,075.00	-178.00	1,524.64	1,490.54	34.10	44.710	
5,900.00	5,870.68	5,878.58	5,868.68	18.50	17.34	158.85	1,075.00	-178.00	1,536.01	1,501.21	34.79	44.145	
6,000.00	5,969.94	5,977.83	5,967.94	18.89	17.68	159.02	1,075.00	-178.00	1,547.39	1,511.90	35.49	43.602	
6,100.00	6,069.34	6,077.24	6,067.34	19.27	18.01	159.21	1,075.00	-178.00	1,557.57	1,521.39	36.18	43.047	
6,200.00	6,168.99	6,176.89	6,166.99	19.64	18.35	159.36	1,075.00	-178.00	1,565.33	1,528.45	36.87	42.450	

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

Pro Directional

Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well 132H
Project:	Eddy County, NM	**TVD Reference:**	Rig @ 3269.00usft (GL:3,240' + KB:29')
Reference Site:	Leatherneck Fed	**MD Reference:**	Rig @ 3269.00usft (GL:3,240' + KB:29')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	132H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	WellPlanner1
Reference Design:	Prelim Plan A	**Offset TVD Reference:**	Offset Datum

Offset Design Leatherneck Fed - 121H - OH - Prelim Plan A — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+HDGM, 1200-MWD+HDGM, 7100-MWD+HDGM — **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)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
6,300.00	6,268.83	6,276.72	6,266.83	20.00	18.69	159.46	1,075.00	-178.00	1,570.64	1,533.08	37.56	41.813	
6,400.00	6,368.78	6,376.68	6,366.78	20.34	19.03	159.52	1,075.00	-178.00	1,573.51	1,535.26	38.25	41.138	
6,500.00	6,468.77	6,476.67	6,466.77	20.64	19.37	0.47	1,075.00	-178.00	1,574.05	1,535.14	38.91	40.452	
6,600.00	6,568.77	6,576.67	6,566.77	20.94	19.72	0.47	1,075.00	-178.00	1,574.05	1,534.49	39.57	39.784	
6,700.00	6,668.77	6,676.67	6,666.77	21.23	20.06	0.47	1,075.00	-178.00	1,574.05	1,533.83	40.22	39.135	
6,800.00	6,768.77	6,776.67	6,766.77	21.53	20.40	0.47	1,075.00	-178.00	1,574.05	1,533.18	40.88	38.506	
6,900.00	6,868.77	6,876.67	6,866.77	21.83	20.75	0.47	1,075.00	-178.00	1,574.05	1,532.52	41.54	37.894	
7,000.00	6,968.77	6,976.67	6,966.77	22.13	21.09	0.47	1,075.00	-178.00	1,574.05	1,531.85	42.20	37.301	
7,100.00	7,068.77	7,694.88	7,614.93	22.43	21.43	8.02	960.18	14.55	1,572.24	1,530.93	41.31	38.063	
7,200.00	7,168.77	7,733.88	7,638.63	22.73	21.51	9.18	947.55	42.83	1,539.43	1,497.35	42.08	36.586	
7,300.00	7,268.77	7,767.70	7,657.77	23.04	21.60	10.25	937.36	68.78	1,511.12	1,468.28	42.84	35.273	
7,400.00	7,368.77	7,800.00	7,674.76	23.35	21.69	11.32	928.31	94.71	1,487.85	1,444.28	43.57	34.150	
7,500.00	7,468.77	7,822.80	7,685.95	23.65	21.78	12.10	922.34	113.65	1,470.06	1,425.83	44.23	33.236	
7,600.00	7,568.77	7,850.00	7,698.43	23.96	21.89	13.05	915.70	136.89	1,458.15	1,413.34	44.81	32.539	
7,700.00	7,668.77	7,865.21	7,704.98	24.28	21.96	13.59	912.21	150.16	1,452.36	1,407.11	45.26	32.092	
7,741.33	7,710.11	7,872.74	7,708.11	24.41	22.00	13.86	910.54	156.81	1,451.82	1,406.41	45.41	31.972	
7,800.00	7,768.77	7,882.82	7,712.17	24.59	22.05	14.23	908.37	165.78	1,452.92	1,407.33	45.59	31.872	SF
7,900.00	7,868.77	7,900.00	7,718.78	24.90	22.14	14.85	904.86	181.24	1,459.89	1,414.10	45.79	31.886	
8,000.00	7,968.77	7,900.00	7,718.78	25.22	22.14	14.85	904.86	181.24	1,473.39	1,427.64	45.75	32.204	
8,100.00	8,068.77	7,925.22	7,727.72	25.53	22.28	15.78	900.09	204.33	1,492.88	1,447.10	45.78	32.609	
8,200.00	8,168.77	7,950.00	7,735.63	25.85	22.43	16.70	895.87	227.43	1,518.76	1,473.06	45.71	33.229	
8,300.00	8,268.77	7,950.00	7,735.63	26.17	22.43	16.70	895.87	227.43	1,550.12	1,504.77	45.35	34.181	
8,400.00	8,368.77	7,950.00	7,735.63	26.49	22.43	16.70	895.87	227.43	1,587.17	1,542.25	44.92	35.332	
8,500.00	8,468.77	7,950.00	7,735.63	26.65	22.43	16.70	895.87	227.43	1,629.52	1,585.31	44.20	36.863	
8,600.00	8,568.62	7,973.98	7,742.43	26.65	22.60	-58.41	892.25	250.13	1,674.50	1,630.88	43.62	38.391	
8,700.00	8,666.41	8,000.00	7,748.86	26.63	22.79	-53.74	888.82	275.11	1,716.69	1,673.68	43.02	39.909	

Pro Directional

Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well 132H
Project:	Eddy County, NM	**TVD Reference:**	Rig @ 3269.00usft (GL:3,240' + KB:29')
Reference Site:	Leatherneck Fed	**MD Reference:**	Rig @ 3269.00usft (GL:3,240' + KB:29')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	132H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	WellPlanner1
Reference Design:	Prelim Plan A	**Offset TVD Reference:**	Offset Datum

Offset Design Leatherneck Fed - 122H - OH - Prelim Plan A — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+HDGM, 1200-MWD+HDGM, 7200-MWD+HDGM — **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)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	1.00	-1.00	0.00	0.00	180.00	-30.00	0.00	30.00				
100.00	100.00	101.00	99.00	0.13	0.13	180.00	-30.00	0.00	30.00	29.74	0.26	116.234	
200.00	200.00	201.00	199.00	0.49	0.49	180.00	-30.00	0.00	30.00	29.02	0.98	30.768	
300.00	300.00	301.00	299.00	0.84	0.85	180.00	-30.00	0.00	30.00	28.31	1.69	17.731	
400.00	400.00	401.00	399.00	1.20	1.21	180.00	-30.00	0.00	30.00	27.59	2.41	12.454	
500.00	500.00	501.00	499.00	1.56	1.56	180.00	-30.00	0.00	30.00	26.87	3.13	9.597	
600.00	600.00	601.00	599.00	1.92	1.92	180.00	-30.00	0.00	30.00	26.16	3.84	7.807	
700.00	700.00	701.00	699.00	2.28	2.28	180.00	-30.00	0.00	30.00	25.44	4.56	6.579	
800.00	800.00	801.00	799.00	2.64	2.64	180.00	-30.00	0.00	30.00	24.72	5.28	5.685	
900.00	900.00	901.00	899.00	3.00	3.00	180.00	-30.00	0.00	30.00	24.01	5.99	5.005	
1,000.00	1,000.00	1,001.00	999.00	3.35	3.36	180.00	-30.00	0.00	30.00	23.29	6.71	4.471	
1,100.00	1,100.00	1,101.00	1,099.00	3.71	3.72	180.00	-30.00	0.00	30.00	22.57	7.43	4.039	
1,200.00	1,200.00	1,201.00	1,199.00	4.07	4.07	180.00	-30.00	0.00	30.00	21.86	8.14	3.684	
1,300.00	1,300.00	1,301.00	1,299.00	4.25	4.25	180.00	-30.00	0.00	30.00	21.49	8.51	3.526	
1,400.00	1,400.00	1,399.00	1,399.00	4.28	4.28	180.00	-30.00	0.00	30.00	21.43	8.57	3.502	CC, ES
1,500.00	1,500.00	1,498.50	1,498.49	4.34	4.34	-179.52	-30.81	-0.26	30.81	22.13	8.68	3.549	
1,600.00	1,599.99	1,597.96	1,597.92	4.43	4.42	-19.65	-33.26	-1.04	32.47	23.62	8.84	3.671	
1,700.00	1,699.96	1,697.39	1,697.25	4.53	4.53	-19.08	-37.35	-2.34	34.15	25.10	9.05	3.772	
1,800.00	1,799.86	1,796.79	1,796.47	4.67	4.67	-18.72	-43.08	-4.17	35.86	26.55	9.31	3.851	
1,900.00	1,899.68	1,896.16	1,895.54	4.82	4.83	-18.53	-50.45	-6.52	37.58	27.97	9.62	3.909	
2,000.00	1,999.37	1,995.50	1,994.43	5.00	5.01	-18.51	-59.46	-9.39	39.33	29.37	9.96	3.948	
2,100.00	2,098.90	2,094.81	2,093.11	5.21	5.22	-18.62	-70.09	-12.78	41.09	30.74	10.34	3.972	
2,200.00	2,198.26	2,205.95	2,191.52	5.43	5.48	-18.85	-82.34	-16.69	42.86	32.07	10.79	3.973	
2,300.00	2,297.51	2,305.96	2,290.52	5.68	5.74	-19.10	-95.59	-20.92	44.75	33.49	11.26	3.975	
2,400.00	2,396.77	2,405.98	2,389.53	5.94	6.02	-19.32	-108.85	-25.14	46.64	34.88	11.76	3.967	
2,500.00	2,496.02	2,506.00	2,488.54	6.22	6.31	-19.53	-122.11	-29.37	48.52	36.24	12.28	3.951	
2,600.00	2,595.28	2,606.02	2,587.55	6.51	6.61	-19.73	-135.36	-33.60	50.41	37.58	12.83	3.930	
2,700.00	2,694.53	2,706.04	2,686.56	6.81	6.92	-19.91	-148.62	-37.82	52.30	38.91	13.39	3.905	
2,800.00	2,793.79	2,806.05	2,785.57	7.12	7.24	-20.07	-161.88	-42.05	54.19	40.21	13.98	3.877	
2,900.00	2,893.04	2,906.07	2,884.58	7.44	7.58	-20.23	-175.14	-46.28	56.08	41.51	14.57	3.848	
3,000.00	2,992.30	3,006.09	2,983.59	7.77	7.91	-20.37	-188.39	-50.51	57.97	42.78	15.19	3.817	
3,100.00	3,091.55	3,106.11	3,082.60	8.10	8.26	-20.51	-201.65	-54.73	59.86	44.05	15.81	3.786	
3,200.00	3,190.81	3,206.13	3,181.61	8.44	8.61	-20.64	-214.91	-58.96	61.75	45.31	16.44	3.755	
3,300.00	3,290.06	3,306.14	3,280.61	8.78	8.97	-20.76	-228.16	-63.19	63.64	46.56	17.09	3.725	
3,400.00	3,389.32	3,406.16	3,379.62	9.13	9.33	-20.87	-241.42	-67.42	65.54	47.80	17.74	3.694	
3,500.00	3,488.57	3,493.82	3,478.63	9.48	9.64	-20.98	-254.68	-71.64	67.43	49.07	18.36	3.673	
3,600.00	3,587.82	3,606.20	3,577.64	9.84	10.06	-21.08	-267.94	-75.87	69.32	50.26	19.06	3.636	
3,700.00	3,687.08	3,706.22	3,676.65	10.19	10.43	-21.17	-281.19	-80.10	71.21	51.48	19.74	3.608	
3,800.00	3,786.33	3,806.23	3,775.66	10.56	10.80	-21.26	-294.45	-84.32	73.10	52.69	20.41	3.581	
3,900.00	3,885.59	3,906.25	3,874.67	10.92	11.18	-21.35	-307.71	-88.55	75.00	53.90	21.10	3.555	
4,000.00	3,984.84	4,006.27	3,973.68	11.29	11.56	-21.43	-320.97	-92.78	76.89	55.11	21.78	3.530	
4,100.00	4,084.10	4,093.71	4,072.69	11.65	11.89	-21.51	-334.22	-97.01	78.78	56.35	22.43	3.513	
4,200.00	4,183.35	4,193.69	4,171.70	12.03	12.27	-21.58	-347.48	-101.23	80.68	57.55	23.12	3.489	
4,300.00	4,282.61	4,306.32	4,270.70	12.40	12.70	-21.65	-360.74	-105.46	82.57	58.70	23.87	3.460	
4,400.00	4,381.86	4,406.34	4,369.71	12.77	13.09	-21.72	-373.99	-109.69	84.46	59.90	24.57	3.438	
4,500.00	4,481.12	4,506.36	4,468.72	13.15	13.48	-21.79	-387.25	-113.91	86.36	61.09	25.27	3.417	
4,600.00	4,580.37	4,606.38	4,567.73	13.52	13.86	-21.85	-400.51	-118.14	88.25	62.27	25.98	3.397	
4,700.00	4,679.63	4,706.40	4,666.74	13.90	14.25	-21.91	-413.77	-122.37	90.14	63.46	26.69	3.378	
4,800.00	4,778.88	4,806.41	4,765.75	14.28	14.64	-21.96	-427.02	-126.60	92.04	64.64	27.40	3.360	
4,900.00	4,878.13	4,906.43	4,864.76	14.66	15.04	-22.02	-440.28	-130.82	93.93	65.82	28.11	3.342	
5,000.00	4,977.39	5,006.45	4,963.77	15.04	15.43	-22.07	-453.54	-135.05	95.83	67.00	28.82	3.325	
5,100.00	5,076.64	5,106.47	5,062.78	15.42	15.82	-22.12	-466.79	-139.28	97.72	68.18	29.54	3.308	

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

Pro Directional

Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well 132H
Project:	Eddy County, NM	**TVD Reference:**	Rig @ 3269.00usft (GL:3,240' + KB:29')
Reference Site:	Leatherneck Fed	**MD Reference:**	Rig @ 3269.00usft (GL:3,240' + KB:29')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	132H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	WellPlanner1
Reference Design:	Prelim Plan A	**Offset TVD Reference:**	Offset Datum

Offset Design Leatherneck Fed - 122H - OH - Prelim Plan A — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+HDGM, 1200-MWD+HDGM, 7200-MWD+HDGM — **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)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,200.00	5,175.90	5,206.49	5,161.79	15.81	16.22	-22.17	-480.05	-143.51	99.61	69.35	30.26	3.292	
5,300.00	5,275.15	5,306.50	5,260.79	16.19	16.61	-22.22	-493.31	-147.73	101.51	70.53	30.98	3.277	
5,400.00	5,374.41	5,406.52	5,359.80	16.57	17.01	-22.26	-506.57	-151.96	103.40	71.70	31.70	3.262	
5,500.00	5,473.66	5,506.54	5,458.81	16.96	17.40	-22.30	-519.82	-156.19	105.30	72.87	32.42	3.248	
5,600.00	5,572.92	5,606.56	5,557.82	17.34	17.80	-22.35	-533.08	-160.41	107.19	74.04	33.15	3.234	
5,700.00	5,672.17	5,706.58	5,656.83	17.73	18.20	-22.39	-546.34	-164.64	109.08	75.21	33.87	3.221	
5,800.00	5,771.43	5,806.59	5,755.84	18.12	18.60	-22.43	-559.59	-168.87	110.98	76.38	34.60	3.208	
5,900.00	5,870.68	5,906.61	5,854.85	18.50	19.00	-22.46	-572.85	-173.10	112.87	77.55	35.32	3.195	
6,000.00	5,969.94	5,993.37	5,953.86	18.89	19.34	-22.50	-586.11	-177.32	114.77	78.76	36.00	3.188	
6,100.00	6,069.34	6,094.63	6,054.16	19.27	19.74	-22.35	-599.29	-181.53	117.63	80.89	36.73	3.202	
6,200.00	6,168.99	6,197.61	6,156.48	19.64	20.14	-22.08	-610.49	-185.10	120.77	83.31	37.45	3.224	
6,300.00	6,268.83	6,300.69	6,259.16	20.00	20.52	-21.77	-619.06	-187.83	123.78	85.64	38.14	3.245	
6,400.00	6,368.78	6,403.86	6,362.13	20.34	20.89	-21.42	-624.99	-189.72	126.67	87.87	38.80	3.264	
6,500.00	6,468.77	6,507.11	6,465.33	20.64	21.23	179.90	-628.28	-190.77	129.30	89.89	39.41	3.281	
6,600.00	6,568.77	6,609.57	6,567.77	20.94	21.54	-180.00	-629.00	-191.00	130.00	90.01	39.99	3.251	
6,700.00	6,668.77	6,709.57	6,667.77	21.23	21.83	-180.00	-629.00	-191.00	130.00	89.39	40.61	3.201	
6,800.00	6,768.77	6,809.57	6,767.77	21.53	22.11	-180.00	-629.00	-191.00	130.00	88.77	41.23	3.153	
6,900.00	6,868.77	6,909.57	6,867.77	21.83	22.40	-180.00	-629.00	-191.00	130.00	88.14	41.86	3.106	
7,000.00	6,968.77	7,009.57	6,967.77	22.13	22.69	-180.00	-629.00	-191.00	130.00	87.52	42.48	3.060	
7,100.00	7,068.77	7,109.57	7,067.77	22.43	22.97	-180.00	-629.00	-191.00	130.00	86.90	43.10	3.016	
7,200.00	7,168.77	7,209.67	7,167.88	22.73	23.12	180.00	-629.00	-191.00	130.00	86.43	43.57	2.984	
7,300.00	7,268.77	7,321.70	7,279.18	23.04	23.09	175.65	-623.18	-181.55	125.06	81.46	43.60	2.869	
7,400.00	7,368.77	7,425.70	7,378.76	23.35	23.03	162.37	-607.71	-156.44	114.60	70.23	44.37	2.583	
7,470.25	7,439.02	7,491.11	7,438.02	23.56	22.97	148.36	-593.23	-132.95	110.68	65.17	45.52	2.432 SF	
7,500.00	7,468.77	7,516.68	7,460.26	23.65	22.95	141.87	-586.63	-122.22	111.65	65.77	45.88	2.434	
7,600.00	7,568.77	7,593.25	7,523.22	23.96	22.88	121.49	-563.82	-85.20	131.83	86.93	44.91	2.936	
7,700.00	7,668.77	7,656.46	7,570.45	24.28	22.83	106.83	-541.81	-49.47	177.02	135.47	41.55	4.261	
7,800.00	7,768.77	7,707.17	7,605.11	24.59	22.79	97.99	-523.37	-17.40	239.14	200.83	38.31	6.242	
7,900.00	7,868.77	7,750.00	7,632.35	24.90	22.78	92.78	-508.87	12.29	311.21	275.17	36.04	8.636	
8,000.00	7,968.77	7,788.33	7,654.99	25.22	22.77	89.46	-496.81	40.76	389.29	354.74	34.56	11.266	
8,100.00	8,068.77	7,820.88	7,672.87	25.53	22.77	87.39	-487.30	66.23	471.44	437.96	33.48	14.082	
8,200.00	8,168.77	7,850.00	7,687.77	25.85	22.77	86.00	-479.37	89.97	556.54	523.81	32.73	17.004	
8,300.00	8,268.77	7,873.82	7,699.14	26.17	22.77	85.12	-473.32	110.00	643.90	611.76	32.14	20.036	
8,400.00	8,368.77	7,900.00	7,710.79	26.49	22.78	84.37	-467.13	132.61	733.06	701.21	31.85	23.016	
8,500.00	8,468.77	7,914.54	7,716.86	26.65	22.78	84.04	-463.90	145.42	823.58	792.21	31.37	26.253	
8,600.00	8,568.62	7,932.95	7,724.13	26.65	22.79	3.78	-460.04	161.89	913.65	882.57	31.07	29.402	
8,700.00	8,666.41	7,950.00	7,730.44	26.63	22.79	2.78	-456.68	177.37	997.15	966.51	30.64	32.542	
8,800.00	8,759.19	7,980.52	7,740.72	26.61	22.80	2.20	-451.22	205.58	1,072.28	1,041.91	30.37	35.308	
8,900.00	8,844.14	8,000.00	7,746.58	26.59	22.80	1.89	-448.11	223.89	1,138.10	1,108.15	29.95	38.002	
9,000.00	8,918.69	8,050.00	7,759.08	26.58	23.05	1.64	-441.49	271.83	1,193.61	1,163.71	29.90	39.918	
9,100.00	8,980.86	8,069.28	7,762.90	26.59	23.20	0.82	-439.46	290.61	1,238.12	1,208.49	29.63	41.783	
9,200.00	9,028.92	8,100.00	7,767.84	26.65	23.43	0.39	-436.86	320.82	1,271.61	1,242.03	29.58	42.992	
9,300.00	9,061.42	8,134.11	7,771.64	26.93	23.72	0.15	-434.86	354.66	1,293.50	1,263.83	29.67	43.592	
9,400.00	9,077.37	8,167.23	7,773.62	27.58	24.02	0.02	-433.83	387.70	1,303.52	1,273.62	29.90	43.593	
9,500.00	9,079.00	8,222.40	7,774.00	28.42	24.58	0.00	-433.67	442.86	1,304.00	1,273.72	30.28	43.066	
9,600.00	9,079.00	8,322.40	7,774.00	29.42	25.70	0.00	-433.76	542.86	1,304.00	1,273.25	30.75	42.401	
9,700.00	9,079.00	8,422.40	7,774.00	30.56	26.97	0.00	-433.85	642.86	1,304.00	1,272.70	31.30	41.660	
9,800.00	9,079.00	8,522.40	7,774.00	31.84	28.37	0.00	-433.94	742.86	1,304.00	1,272.08	31.92	40.858	
9,900.00	9,079.00	8,622.40	7,774.00	33.22	29.88	0.00	-434.02	842.86	1,304.00	1,271.41	32.59	40.007	
10,000.00	9,079.00	8,722.40	7,774.00	34.70	31.50	0.00	-434.11	942.86	1,304.00	1,270.67	33.33	39.120	
10,100.00	9,079.00	8,822.40	7,774.00	36.27	33.19	0.00	-434.20	1,042.86	1,304.00	1,269.87	34.13	38.208	
10,200.00	9,079.00	8,922.40	7,774.00	37.91	34.95	0.00	-434.29	1,142.86	1,304.00	1,269.02	34.98	37.282	

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

Pro Directional

Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well 132H
Project:	Eddy County, NM	**TVD Reference:**	Rig @ 3269.00usft (GL:3,240' + KB:29')
Reference Site:	Leatherneck Fed	**MD Reference:**	Rig @ 3269.00usft (GL:3,240' + KB:29')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	132H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	WellPlanner1
Reference Design:	Prelim Plan A	**Offset TVD Reference:**	Offset Datum

Offset Design Leatherneck Fed - 122H - OH - Prelim Plan A — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+HDGM, 1200-MWD+HDGM, 7200-MWD+HDGM — **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)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,300.00	9,079.00	9,022.40	7,774.00	39.62	36.78	0.00	-434.37	1,242.86	1,304.00	1,268.13	35.87	36.351	
10,400.00	9,079.00	9,122.40	7,774.00	41.39	38.65	0.00	-434.46	1,342.86	1,304.00	1,267.19	36.81	35.422	
10,500.00	9,079.00	9,222.40	7,774.00	43.21	40.57	0.00	-434.55	1,442.86	1,304.00	1,266.20	37.80	34.501	
10,600.00	9,079.00	9,322.40	7,774.00	45.07	42.53	0.00	-434.63	1,542.86	1,304.00	1,265.18	38.82	33.594	
10,700.00	9,079.00	9,422.40	7,774.00	46.97	44.53	0.00	-434.72	1,642.86	1,304.00	1,264.13	39.87	32.704	
10,800.00	9,079.00	9,522.40	7,774.00	48.91	46.55	0.00	-434.81	1,742.86	1,304.00	1,263.04	40.96	31.834	
10,900.00	9,079.00	9,622.40	7,774.00	50.88	48.59	0.00	-434.90	1,842.86	1,304.00	1,261.92	42.08	30.988	
11,000.00	9,079.00	9,722.40	7,774.00	52.87	50.66	0.00	-434.98	1,942.86	1,304.00	1,260.77	43.23	30.165	
11,100.00	9,079.00	9,822.40	7,774.00	54.89	52.75	0.00	-435.07	2,042.86	1,304.00	1,259.60	44.40	29.369	
11,200.00	9,079.00	9,922.40	7,774.00	56.94	54.86	0.00	-435.16	2,142.86	1,304.00	1,258.40	45.60	28.598	
11,300.00	9,079.00	10,022.40	7,774.00	59.00	56.98	0.00	-435.25	2,242.86	1,304.00	1,257.18	46.82	27.854	
11,400.00	9,079.00	10,122.40	7,774.00	61.08	59.12	0.00	-435.33	2,342.86	1,304.00	1,255.95	48.05	27.136	
11,500.00	9,079.00	10,222.40	7,774.00	63.17	61.27	0.00	-435.42	2,442.86	1,304.00	1,254.69	49.31	26.444	
11,600.00	9,079.00	10,322.40	7,774.00	65.28	63.42	0.00	-435.51	2,542.86	1,304.00	1,253.41	50.59	25.778	
11,666.24	9,079.00	10,388.64	7,774.00	66.69	64.86	0.00	-435.57	2,609.11	1,304.00	1,252.56	51.44	25.350	
11,700.00	9,079.00	10,422.40	7,774.00	67.40	65.59	0.00	-435.59	2,642.86	1,304.00	1,252.12	51.88	25.137	
11,800.00	9,079.00	10,522.40	7,774.00	69.54	67.77	0.00	-435.68	2,742.86	1,304.00	1,250.82	53.18	24.520	
11,900.00	9,079.00	10,622.40	7,774.00	71.68	69.96	0.00	-435.77	2,842.86	1,304.00	1,249.50	54.50	23.926	
12,000.00	9,079.00	10,722.40	7,774.00	73.84	72.15	0.00	-435.86	2,942.86	1,304.00	1,248.17	55.83	23.355	
12,100.00	9,079.00	10,822.40	7,774.00	76.00	74.36	0.00	-435.94	3,042.86	1,304.00	1,246.82	57.18	22.806	
12,200.00	9,079.00	10,922.40	7,774.00	78.17	76.56	0.00	-436.03	3,142.86	1,304.00	1,245.47	58.53	22.278	
12,300.00	9,079.00	11,022.40	7,774.00	80.35	78.78	0.00	-436.12	3,242.86	1,304.00	1,244.10	59.90	21.770	
12,400.00	9,079.00	11,122.40	7,774.00	82.54	81.00	0.00	-436.21	3,342.86	1,304.00	1,242.73	61.27	21.281	
12,500.00	9,079.00	11,222.40	7,774.00	84.73	83.22	0.00	-436.29	3,442.86	1,304.00	1,241.34	62.66	20.811	
12,600.00	9,079.00	11,322.40	7,774.00	86.93	85.45	0.00	-436.38	3,542.86	1,304.00	1,239.95	64.05	20.359	
12,700.00	9,079.00	11,422.40	7,774.00	89.13	87.68	0.00	-436.47	3,642.86	1,304.00	1,238.55	65.45	19.923	
12,800.00	9,079.00	11,522.40	7,774.00	91.34	89.91	0.00	-436.55	3,742.86	1,304.00	1,237.14	66.86	19.503	
12,900.00	9,079.00	11,622.40	7,774.00	93.55	92.15	0.00	-436.64	3,842.86	1,304.00	1,235.72	68.28	19.099	
13,000.00	9,079.00	11,722.40	7,774.00	95.77	94.40	0.00	-436.73	3,942.86	1,304.00	1,234.30	69.70	18.709	
13,100.00	9,079.00	11,822.40	7,774.00	97.99	96.64	0.00	-436.82	4,042.86	1,304.00	1,232.87	71.13	18.334	
13,200.00	9,079.00	11,922.40	7,774.00	100.22	98.89	0.00	-436.90	4,142.86	1,304.00	1,231.44	72.56	17.971	
13,300.00	9,079.00	12,022.40	7,774.00	102.45	101.14	0.00	-436.99	4,242.86	1,304.00	1,230.00	74.00	17.622	
13,400.00	9,079.00	12,122.40	7,774.00	104.68	103.39	0.00	-437.08	4,342.86	1,304.00	1,228.56	75.44	17.284	
13,500.00	9,079.00	12,222.40	7,774.00	106.92	105.65	0.00	-437.17	4,442.86	1,304.00	1,227.11	76.89	16.958	
13,600.00	9,079.00	12,322.40	7,774.00	109.16	107.91	0.00	-437.25	4,542.86	1,304.00	1,225.65	78.35	16.644	
13,700.00	9,079.00	12,422.40	7,774.00	111.40	110.17	0.00	-437.34	4,642.86	1,304.00	1,224.19	79.81	16.340	
13,800.00	9,079.00	12,522.40	7,774.00	113.65	112.43	0.00	-437.43	4,742.86	1,304.00	1,222.73	81.27	16.046	
13,900.00	9,079.00	12,622.40	7,774.00	115.89	114.69	0.00	-437.51	4,842.86	1,304.00	1,221.26	82.74	15.761	
14,000.00	9,079.00	12,722.40	7,774.00	118.14	116.96	0.00	-437.60	4,942.86	1,304.00	1,219.79	84.21	15.486	
14,100.00	9,079.00	12,822.40	7,774.00	120.39	119.23	0.00	-437.69	5,042.86	1,304.00	1,218.32	85.68	15.220	
14,200.00	9,079.00	12,922.40	7,774.00	122.65	121.49	0.00	-437.78	5,142.86	1,304.00	1,216.84	87.16	14.962	
14,300.00	9,079.00	13,022.40	7,774.00	124.90	123.76	0.00	-437.86	5,242.86	1,304.00	1,215.36	88.64	14.712	
14,400.00	9,079.00	13,122.40	7,774.00	127.16	126.04	0.00	-437.95	5,342.86	1,304.00	1,213.88	90.12	14.470	
14,500.00	9,079.00	13,222.40	7,774.00	129.42	128.31	0.00	-438.04	5,442.86	1,304.00	1,212.39	91.61	14.235	
14,600.00	9,079.00	13,322.40	7,774.00	131.68	130.58	0.00	-438.13	5,542.86	1,304.00	1,210.91	93.09	14.007	
14,666.24	9,079.00	13,388.64	7,774.00	133.18	132.09	0.00	-438.18	5,609.10	1,304.00	1,209.92	94.08	13.860	
14,700.00	9,079.00	13,422.40	7,774.00	133.94	132.86	0.00	-438.21	5,642.86	1,304.00	1,209.41	94.59	13.786	
14,800.00	9,079.00	13,522.40	7,774.00	136.21	135.13	0.00	-438.30	5,742.86	1,304.00	1,207.92	96.08	13.572	
14,900.00	9,079.00	13,622.40	7,774.00	138.47	137.41	0.00	-438.39	5,842.86	1,304.00	1,206.42	97.58	13.364	
15,000.00	9,079.00	13,722.40	7,774.00	140.74	139.69	0.00	-438.47	5,942.86	1,304.00	1,204.93	99.07	13.162	
15,100.00	9,079.00	13,822.40	7,774.00	143.01	141.97	0.00	-438.56	6,042.86	1,304.00	1,203.42	100.58	12.965	
15,200.00	9,079.00	13,922.40	7,774.00	145.28	144.25	0.00	-438.65	6,142.86	1,304.00	1,201.92	102.08	12.775	

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

Pro Directional

Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well 132H
Project:	Eddy County, NM	**TVD Reference:**	Rig @ 3269.00usft (GL:3,240' + KB:29')
Reference Site:	Leatherneck Fed	**MD Reference:**	Rig @ 3269.00usft (GL:3,240' + KB:29')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	132H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	WellPlanner1
Reference Design:	Prelim Plan A	**Offset TVD Reference:**	Offset Datum

Offset Design Leatherneck Fed - 122H - OH - Prelim Plan A — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+HDGM, 1200-MWD+HDGM, 7200-MWD+HDGM — **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)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
15,300.00	9,079.00	14,022.40	7,774.00	147.55	146.53	0.00	-438.74	6,242.86	1,304.00	1,200.42	103.58	12.589	
15,400.00	9,079.00	14,122.40	7,774.00	149.82	148.81	0.00	-438.82	6,342.86	1,304.00	1,198.91	105.09	12.409	
15,500.00	9,079.00	14,222.40	7,774.00	152.09	151.09	0.00	-438.91	6,442.86	1,304.00	1,197.40	106.60	12.233	
15,600.00	9,079.00	14,322.40	7,774.00	154.36	153.38	0.00	-439.00	6,542.86	1,304.00	1,195.89	108.11	12.062	
15,700.00	9,079.00	14,422.40	7,774.00	156.64	155.66	0.00	-439.09	6,642.86	1,304.00	1,194.38	109.62	11.896	
15,800.00	9,079.00	14,522.40	7,774.00	158.92	157.94	0.00	-439.17	6,742.86	1,304.00	1,192.87	111.13	11.734	
15,900.00	9,079.00	14,622.40	7,774.00	161.19	160.23	0.00	-439.26	6,842.86	1,304.00	1,191.35	112.65	11.576	
16,000.00	9,079.00	14,722.40	7,774.00	163.47	162.52	0.00	-439.35	6,942.86	1,304.00	1,189.84	114.16	11.422	
16,100.00	9,079.00	14,822.40	7,774.00	165.75	164.80	0.00	-439.43	7,042.86	1,304.00	1,188.32	115.68	11.272	
16,200.00	9,079.00	14,922.40	7,774.00	168.03	167.09	0.00	-439.52	7,142.86	1,304.00	1,186.80	117.20	11.126	
16,300.00	9,079.00	15,022.40	7,774.00	170.31	169.38	0.00	-439.61	7,242.86	1,304.00	1,185.28	118.72	10.984	
16,400.00	9,079.00	15,122.40	7,774.00	172.59	171.66	0.00	-439.70	7,342.86	1,304.00	1,183.76	120.24	10.845	
16,500.00	9,079.00	15,222.40	7,774.00	174.87	173.95	0.00	-439.78	7,442.86	1,304.00	1,182.23	121.77	10.709	
16,600.00	9,079.00	15,322.40	7,774.00	177.15	176.24	0.00	-439.87	7,542.86	1,304.00	1,180.71	123.29	10.577	
16,700.00	9,079.00	15,422.40	7,774.00	179.43	178.53	0.00	-439.96	7,642.86	1,304.00	1,179.18	124.82	10.447	
16,800.00	9,079.00	15,522.40	7,774.00	181.71	180.82	0.00	-440.05	7,742.86	1,304.00	1,177.66	126.34	10.321	
16,900.00	9,079.00	15,622.40	7,774.00	184.00	183.11	0.00	-440.13	7,842.86	1,304.00	1,176.13	127.87	10.198	
17,000.00	9,079.00	15,722.40	7,774.00	186.28	185.40	0.00	-440.22	7,942.86	1,304.00	1,174.60	129.40	10.077	
17,100.00	9,079.00	15,822.40	7,774.00	188.57	187.69	0.00	-440.31	8,042.86	1,304.00	1,173.07	130.93	9.960	
17,200.00	9,079.00	15,922.40	7,774.00	190.85	189.99	0.00	-440.39	8,142.86	1,304.00	1,171.54	132.46	9.845	
17,300.00	9,079.00	16,022.40	7,774.00	193.14	192.28	0.00	-440.48	8,242.86	1,304.00	1,170.01	133.99	9.732	
17,400.00	9,079.00	16,122.40	7,774.00	195.43	194.57	0.00	-440.57	8,342.86	1,304.00	1,168.48	135.52	9.622	
17,500.00	9,079.00	16,222.40	7,774.00	197.71	196.86	0.00	-440.66	8,442.86	1,304.00	1,166.95	137.05	9.514	
17,600.00	9,079.00	16,322.40	7,774.00	200.00	199.16	0.00	-440.74	8,542.86	1,304.00	1,165.41	138.59	9.409	
17,666.24	9,079.00	16,388.64	7,774.00	201.51	200.67	0.00	-440.80	8,609.10	1,304.00	1,164.40	139.60	9.341	
17,700.00	9,079.00	16,422.40	7,774.00	202.29	201.45	0.00	-440.83	8,642.86	1,304.00	1,163.88	140.12	9.306	
17,800.00	9,079.00	16,522.40	7,774.00	204.58	203.74	0.00	-440.92	8,742.86	1,304.00	1,162.34	141.66	9.205	
17,900.00	9,079.00	16,622.40	7,774.00	206.86	206.04	0.00	-441.01	8,842.86	1,304.00	1,160.81	143.19	9.107	
18,000.00	9,079.00	16,722.40	7,774.00	209.15	208.33	0.00	-441.09	8,942.86	1,304.00	1,159.27	144.73	9.010	
18,100.00	9,079.00	16,822.40	7,774.00	211.44	210.63	0.00	-441.18	9,042.86	1,304.00	1,157.73	146.27	8.915	
18,200.00	9,079.00	16,922.40	7,774.00	213.73	212.92	0.00	-441.27	9,142.86	1,304.00	1,156.19	147.81	8.822	
18,300.00	9,079.00	17,022.40	7,774.00	216.02	215.22	0.00	-441.35	9,242.86	1,304.00	1,154.65	149.35	8.731	
18,400.00	9,079.00	17,122.40	7,774.00	218.31	217.51	0.00	-441.44	9,342.86	1,304.00	1,153.11	150.89	8.642	
18,500.00	9,079.00	17,222.40	7,774.00	220.60	219.81	0.00	-441.53	9,442.86	1,304.00	1,151.57	152.43	8.555	
18,600.00	9,079.00	17,322.40	7,774.00	222.90	222.10	0.00	-441.62	9,542.86	1,304.00	1,150.03	153.97	8.469	
18,700.00	9,079.00	17,422.40	7,774.00	225.19	224.40	0.00	-441.70	9,642.86	1,304.00	1,148.49	155.51	8.385	
18,800.00	9,079.00	17,522.40	7,774.00	227.48	226.69	0.00	-441.79	9,742.86	1,304.00	1,146.95	157.05	8.303	
18,900.00	9,079.00	17,622.40	7,774.00	229.77	228.99	0.00	-441.88	9,842.86	1,304.00	1,145.41	158.59	8.222	
19,000.00	9,079.00	17,722.40	7,774.00	232.06	231.29	0.00	-441.96	9,942.86	1,304.00	1,143.87	160.13	8.143	
19,040.14	9,079.00	17,762.54	7,774.00	232.98	232.21	0.00	-442.00	9,983.00	1,304.00	1,143.25	160.75	8.112	

Pro Directional

Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well 132H
Project:	Eddy County, NM	**TVD Reference:**	Rig @ 3269.00usft (GL:3,240' + KB:29')
Reference Site:	Leatherneck Fed	**MD Reference:**	Rig @ 3269.00usft (GL:3,240' + KB:29')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	132H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	WellPlanner1
Reference Design:	Prelim Plan A	**Offset TVD Reference:**	Offset Datum

Offset Design Leatherneck Fed - 131H - OH - Prelim Plan A — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+HDGM, 1200-MWD+HDGM, 8500-MWD+HDGM — **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)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	2.00	-2.00	0.00	0.00	1.20	910.00	19.00	910.20				
100.00	100.00	102.00	98.00	0.13	0.13	1.20	910.00	19.00	910.20	909.94	0.26	3,478.227	
200.00	200.00	202.00	198.00	0.49	0.49	1.20	910.00	19.00	910.20	909.22	0.98	930.076	
300.00	300.00	302.00	298.00	0.84	0.85	1.20	910.00	19.00	910.20	908.50	1.70	536.809	
400.00	400.00	402.00	398.00	1.20	1.21	1.20	910.00	19.00	910.20	907.79	2.41	377.282	
500.00	500.00	502.00	498.00	1.56	1.57	1.20	910.00	19.00	910.20	907.07	3.13	290.849	
600.00	600.00	602.00	598.00	1.92	1.93	1.20	910.00	19.00	910.20	906.35	3.85	236.636	
700.00	700.00	702.00	698.00	2.28	2.29	1.20	910.00	19.00	910.20	905.64	4.56	199.459	
800.00	800.00	802.00	798.00	2.64	2.64	1.20	910.00	19.00	910.20	904.92	5.28	172.377	
900.00	900.00	902.00	898.00	3.00	3.00	1.20	910.00	19.00	910.20	904.20	6.00	151.770	
1,000.00	1,000.00	1,002.00	998.00	3.35	3.36	1.20	910.00	19.00	910.20	903.48	6.71	135.564	
1,100.00	1,100.00	1,102.00	1,098.00	3.71	3.72	1.20	910.00	19.00	910.20	902.77	7.43	122.485	
1,200.00	1,200.00	1,202.00	1,198.00	4.07	4.07	1.20	910.00	19.00	910.20	902.05	8.14	111.756	
1,300.00	1,300.00	1,302.00	1,298.00	4.25	4.25	1.20	910.00	19.00	910.20	901.69	8.51	106.988	
1,400.00	1,400.00	1,398.00	1,398.00	4.28	4.28	1.20	910.00	19.00	910.20	901.63	8.57	106.251 CC	
1,500.00	1,500.00	1,495.65	1,495.64	4.34	4.34	1.15	910.14	18.21	910.32	901.64	8.68	104.846	
1,600.00	1,599.99	1,593.19	1,593.15	4.43	4.42	160.06	910.57	15.79	911.54	902.69	8.85	103.015	
1,700.00	1,699.96	1,690.61	1,690.49	4.53	4.53	159.85	911.29	11.75	914.67	905.61	9.06	100.913	
1,800.00	1,799.86	1,787.85	1,787.55	4.67	4.66	159.57	912.30	6.08	919.73	910.40	9.33	98.579	
1,900.00	1,899.68	1,884.82	1,884.24	4.82	4.82	159.22	913.59	-1.18	926.73	917.08	9.64	96.102	
2,000.00	1,999.37	1,983.84	1,982.89	5.00	5.00	158.84	915.09	-9.66	935.57	925.56	10.00	93.516	
2,100.00	2,098.90	2,083.16	2,081.83	5.21	5.21	158.49	916.61	-18.18	946.07	935.66	10.41	90.911	
2,200.00	2,198.26	2,182.32	2,180.61	5.43	5.43	158.18	918.12	-26.69	958.20	947.35	10.84	88.356	
2,300.00	2,297.51	2,281.40	2,279.31	5.68	5.67	157.94	919.63	-35.20	971.16	959.84	11.31	85.836	
2,400.00	2,396.77	2,380.48	2,378.01	5.94	5.92	157.71	921.14	-43.70	984.13	972.32	11.81	83.324	
2,500.00	2,496.02	2,479.55	2,476.72	6.22	6.19	157.49	922.65	-52.20	997.12	984.78	12.33	80.851	
2,600.00	2,595.28	2,578.63	2,575.42	6.51	6.46	157.27	924.16	-60.70	1,010.12	997.24	12.88	78.447	
2,700.00	2,694.53	2,677.71	2,674.12	6.81	6.75	157.05	925.67	-69.20	1,023.14	1,009.70	13.44	76.128	
2,800.00	2,793.79	2,776.79	2,772.82	7.12	7.04	156.84	927.18	-77.71	1,036.17	1,022.15	14.02	73.907	
2,900.00	2,893.04	2,875.86	2,871.52	7.44	7.34	156.64	928.69	-86.21	1,049.21	1,034.60	14.62	71.789	
3,000.00	2,992.30	2,974.94	2,970.22	7.77	7.65	156.44	930.20	-94.71	1,062.27	1,047.04	15.22	69.777	
3,100.00	3,091.55	3,074.02	3,068.92	8.10	7.96	156.25	931.71	-103.21	1,075.34	1,059.49	15.84	67.870	
3,200.00	3,190.81	3,173.10	3,167.62	8.44	8.28	156.06	933.22	-111.71	1,088.42	1,071.94	16.47	66.066	
3,300.00	3,290.06	3,272.17	3,266.32	8.78	8.60	155.87	934.73	-120.22	1,101.51	1,084.39	17.11	64.360	
3,400.00	3,389.32	3,371.25	3,365.02	9.13	8.93	155.69	936.24	-128.72	1,114.61	1,096.85	17.76	62.748	
3,500.00	3,488.57	3,470.33	3,463.72	9.48	9.26	155.51	937.75	-137.22	1,127.73	1,109.31	18.42	61.226	
3,600.00	3,587.82	3,569.40	3,562.42	9.84	9.59	155.34	939.27	-145.72	1,140.85	1,121.77	19.08	59.788	
3,700.00	3,687.08	3,668.48	3,661.12	10.19	9.93	155.17	940.78	-154.22	1,153.99	1,134.24	19.75	58.429	
3,800.00	3,786.33	3,767.56	3,759.82	10.56	10.27	155.01	942.29	-162.73	1,167.13	1,146.71	20.42	57.145	
3,900.00	3,885.59	3,873.77	3,865.72	10.92	10.63	154.89	943.70	-170.68	1,180.02	1,158.89	21.13	55.853	
4,000.00	3,984.84	3,981.11	3,972.93	11.29	10.99	154.92	944.61	-175.79	1,192.23	1,170.41	21.83	54.617	
4,100.00	4,084.10	4,088.52	4,080.31	11.65	11.34	155.08	944.99	-177.93	1,203.78	1,181.26	22.52	53.444	
4,200.00	4,183.35	4,189.56	4,181.35	12.03	11.66	155.32	945.00	-178.00	1,214.87	1,191.69	23.18	52.400	
4,300.00	4,282.61	4,288.81	4,280.61	12.40	11.97	155.56	945.00	-178.00	1,225.97	1,202.13	23.84	51.425	
4,400.00	4,381.86	4,388.07	4,379.86	12.77	12.28	155.80	945.00	-178.00	1,237.09	1,212.59	24.50	50.495	
4,500.00	4,481.12	4,487.32	4,479.12	13.15	12.60	156.02	945.00	-178.00	1,248.23	1,223.07	25.16	49.607	
4,600.00	4,580.37	4,586.58	4,578.37	13.52	12.92	156.25	945.00	-178.00	1,259.39	1,233.56	25.83	48.760	
4,700.00	4,679.63	4,685.83	4,677.63	13.90	13.24	156.47	945.00	-178.00	1,270.57	1,244.07	26.50	47.951	
4,800.00	4,778.88	4,785.09	4,776.88	14.28	13.56	156.69	945.00	-178.00	1,281.76	1,254.59	27.17	47.177	
4,900.00	4,878.13	4,884.34	4,876.13	14.66	13.88	156.90	945.00	-178.00	1,292.98	1,265.13	27.84	46.437	
5,000.00	4,977.39	4,983.60	4,975.39	15.04	14.21	157.11	945.00	-178.00	1,304.21	1,275.69	28.52	45.729	
5,100.00	5,076.64	5,082.85	5,074.64	15.42	14.53	157.32	945.00	-178.00	1,315.46	1,286.26	29.20	45.051	

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

Pro Directional

Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well 132H
Project:	Eddy County, NM	**TVD Reference:**	Rig @ 3269.00usft (GL:3,240' + KB:29')
Reference Site:	Leatherneck Fed	**MD Reference:**	Rig @ 3269.00usft (GL:3,240' + KB:29')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	132H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	WellPlanner1
Reference Design:	Prelim Plan A	**Offset TVD Reference:**	Offset Datum

Offset Design Leatherneck Fed - 131H - OH - Prelim Plan A — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+HDGM, 1200-MWD+HDGM, 8500-MWD+HDGM — **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)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,200.00	5,175.90	5,182.11	5,173.90	15.81	14.86	157.52	945.00	-178.00	1,326.72	1,296.84	29.88	44.401	
5,300.00	5,275.15	5,281.36	5,273.15	16.19	15.19	157.72	945.00	-178.00	1,338.00	1,307.44	30.56	43.778	
5,400.00	5,374.41	5,380.61	5,372.41	16.57	15.52	157.92	945.00	-178.00	1,349.30	1,318.05	31.25	43.181	
5,500.00	5,473.66	5,479.87	5,471.66	16.96	15.85	158.11	945.00	-178.00	1,360.61	1,328.68	31.93	42.607	
5,600.00	5,572.92	5,579.12	5,570.92	17.34	16.19	158.30	945.00	-178.00	1,371.94	1,339.32	32.62	42.056	
5,700.00	5,672.17	5,678.38	5,670.17	17.73	16.52	158.48	945.00	-178.00	1,383.28	1,349.97	33.31	41.526	
5,800.00	5,771.43	5,777.63	5,769.43	18.12	16.85	158.67	945.00	-178.00	1,394.64	1,360.64	34.00	41.016	
5,900.00	5,870.68	5,876.89	5,868.68	18.50	17.19	158.85	945.00	-178.00	1,406.01	1,371.31	34.69	40.526	
6,000.00	5,969.94	5,976.14	5,967.94	18.89	17.52	159.03	945.00	-178.00	1,417.39	1,382.00	35.39	40.054	
6,100.00	6,069.34	6,075.54	6,067.34	19.27	17.86	159.24	945.00	-178.00	1,427.58	1,391.50	36.08	39.567	
6,200.00	6,168.99	6,175.20	6,166.99	19.64	18.20	159.39	945.00	-178.00	1,435.33	1,398.56	36.77	39.035	
6,300.00	6,268.83	6,275.03	6,266.83	20.00	18.54	159.50	945.00	-178.00	1,440.64	1,403.19	37.46	38.460	
6,400.00	6,368.78	6,374.98	6,366.78	20.34	18.88	159.56	945.00	-178.00	1,443.51	1,405.37	38.14	37.845	
6,500.00	6,468.77	6,474.98	6,466.77	20.64	19.22	0.52	945.00	-178.00	1,444.06	1,405.25	38.80	37.214	
6,600.00	6,568.77	6,574.98	6,566.77	20.94	19.57	0.52	945.00	-178.00	1,444.06	1,404.60	39.46	36.598	
6,700.00	6,668.77	6,674.98	6,666.77	21.23	19.91	0.52	945.00	-178.00	1,444.06	1,403.95	40.11	36.001	
6,800.00	6,768.77	6,774.98	6,766.77	21.53	20.25	0.52	945.00	-178.00	1,444.06	1,403.29	40.77	35.420	
6,900.00	6,868.77	6,874.98	6,866.77	21.83	20.60	0.52	945.00	-178.00	1,444.06	1,402.63	41.43	34.857	
7,000.00	6,968.77	6,974.98	6,966.77	22.13	20.94	0.52	945.00	-178.00	1,444.06	1,401.97	42.09	34.310	
7,100.00	7,068.77	7,074.98	7,066.77	22.43	21.29	0.52	945.00	-178.00	1,444.06	1,401.31	42.75	33.778	
7,200.00	7,168.77	7,174.98	7,166.77	22.73	21.63	0.52	945.00	-178.00	1,444.06	1,400.64	43.42	33.261	
7,300.00	7,268.77	7,274.98	7,266.77	23.04	21.98	0.52	945.00	-178.00	1,444.06	1,399.98	44.08	32.759	
7,400.00	7,368.77	7,374.98	7,366.77	23.35	22.33	0.52	945.00	-178.00	1,444.06	1,399.31	44.75	32.270	
7,500.00	7,468.77	7,474.98	7,466.77	23.65	22.67	0.52	945.00	-178.00	1,444.06	1,398.64	45.42	31.795	
7,600.00	7,568.77	7,574.98	7,566.77	23.96	23.02	0.52	945.00	-178.00	1,444.06	1,397.97	46.09	31.333	
7,700.00	7,668.77	7,674.98	7,666.77	24.28	23.37	0.52	945.00	-178.00	1,444.06	1,397.30	46.76	30.882	
7,800.00	7,768.77	7,774.98	7,766.77	24.59	23.71	0.52	945.00	-178.00	1,444.06	1,396.63	47.43	30.444	
7,900.00	7,868.77	7,874.98	7,866.77	24.90	24.06	0.52	945.00	-178.00	1,444.06	1,395.95	48.11	30.017	
8,000.00	7,968.77	7,974.98	7,966.77	25.22	24.41	0.52	945.00	-178.00	1,444.06	1,395.28	48.78	29.602	
8,100.00	8,068.77	8,074.98	8,066.77	25.53	24.76	0.52	945.00	-178.00	1,444.06	1,394.60	49.46	29.197	
8,200.00	8,168.77	8,174.98	8,166.77	25.85	25.11	0.52	945.00	-178.00	1,444.06	1,393.92	50.14	28.802	
8,300.00	8,268.77	8,274.98	8,266.77	26.17	25.46	0.52	945.00	-178.00	1,444.06	1,393.24	50.82	28.417	
8,400.00	8,368.77	8,374.98	8,366.77	26.49	25.81	0.52	945.00	-178.00	1,444.06	1,392.56	51.50	28.042	
8,500.00	8,468.77	8,474.98	8,466.77	26.65	26.16	0.52	945.00	-178.00	1,444.06	1,392.05	52.01	27.764	
8,600.00	8,568.62	8,631.24	8,621.79	26.65	26.23	-78.29	942.21	-162.41	1,441.72	1,389.61	52.10	27.670	
8,700.00	8,666.41	8,793.86	8,772.45	26.63	26.20	-78.17	931.67	-103.62	1,431.52	1,379.48	52.04	27.507	
8,800.00	8,759.19	8,941.14	8,889.57	26.61	26.25	-78.27	916.03	-16.37	1,414.17	1,362.12	52.05	27.171	
8,900.00	8,844.14	9,036.87	8,952.01	26.59	26.37	-79.25	903.60	54.98	1,391.65	1,339.44	52.21	26.654	
9,000.00	8,918.69	9,100.00	8,986.40	26.58	26.52	-81.27	896.33	107.37	1,368.00	1,315.56	52.45	26.083	
9,100.00	8,980.86	9,169.27	9,017.40	26.59	26.76	-84.72	889.77	168.93	1,346.93	1,294.08	52.85	25.484	
9,200.00	9,028.92	9,235.64	9,040.09	26.65	27.07	-87.11	884.96	231.07	1,330.66	1,277.21	53.45	24.894	
9,300.00	9,061.42	9,300.00	9,055.23	26.93	27.45	-88.63	881.75	293.51	1,319.60	1,265.31	54.29	24.306	
9,400.00	9,077.37	9,369.05	9,063.76	27.58	27.95	-89.37	879.94	361.96	1,314.03	1,258.59	55.45	23.700	
9,494.92	9,081.10	9,445.08	9,065.00	28.37	28.59	-89.38	879.67	437.96	1,313.00	1,256.12	56.88	23.084	
9,500.00	9,079.00	9,450.21	9,065.00	28.42	28.64	-89.48	879.66	443.09	1,313.39	1,256.42	56.97	23.053	
9,600.00	9,079.00	9,550.21	9,065.00	29.42	29.62	-89.48	879.65	543.09	1,313.46	1,254.51	58.96	22.278	
9,700.00	9,079.00	9,650.21	9,065.00	30.56	30.74	-89.48	879.63	643.09	1,313.53	1,252.31	61.23	21.454	
9,800.00	9,079.00	9,750.21	9,065.00	31.84	31.99	-89.48	879.61	743.09	1,313.60	1,249.86	63.75	20.606	
9,900.00	9,079.00	9,850.21	9,065.00	33.22	33.35	-89.48	879.59	843.09	1,313.67	1,247.18	66.49	19.756	
10,000.00	9,079.00	9,950.21	9,065.00	34.70	34.81	-89.48	879.58	943.09	1,313.74	1,244.30	69.44	18.919	
10,100.00	9,079.00	10,050.21	9,065.00	36.27	36.36	-89.48	879.56	1,043.09	1,313.81	1,241.25	72.56	18.107	
10,200.00	9,079.00	10,150.21	9,065.00	37.91	37.99	-89.48	879.54	1,143.09	1,313.88	1,238.05	75.83	17.327	

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

Pro Directional

Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well 132H
Project:	Eddy County, NM	**TVD Reference:**	Rig @ 3269.00usft (GL:3,240' + KB:29')
Reference Site:	Leatherneck Fed	**MD Reference:**	Rig @ 3269.00usft (GL:3,240' + KB:29')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	132H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	WellPlanner1
Reference Design:	Prelim Plan A	**Offset TVD Reference:**	Offset Datum

Offset Design Leatherneck Fed - 131H - OH - Prelim Plan A — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+HDGM, 1200-MWD+HDGM, 8500-MWD+HDGM — **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)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,300.00	9,079.00	10,250.21	9,065.00	39.62	39.68	-89.48	879.52	1,243.09	1,313.95	1,234.72	79.24	16.583	
10,400.00	9,079.00	10,350.21	9,065.00	41.39	41.43	-89.48	879.51	1,343.09	1,314.02	1,231.26	82.76	15.878	
10,500.00	9,079.00	10,450.21	9,065.00	43.21	43.24	-89.48	879.49	1,443.09	1,314.09	1,227.71	86.38	15.212	
10,600.00	9,079.00	10,550.21	9,065.00	45.07	45.09	-89.48	879.47	1,543.09	1,314.16	1,224.06	90.10	14.585	
10,700.00	9,079.00	10,650.21	9,065.00	46.97	46.98	-89.48	879.46	1,643.09	1,314.23	1,220.33	93.90	13.997	
10,800.00	9,079.00	10,750.21	9,065.00	48.91	48.91	-89.48	879.44	1,743.09	1,314.30	1,216.54	97.76	13.444	
10,900.00	9,079.00	10,850.21	9,065.00	50.88	50.87	-89.48	879.42	1,843.09	1,314.37	1,212.68	101.69	12.925	
11,000.00	9,079.00	10,950.21	9,065.00	52.87	52.85	-89.48	879.40	1,943.09	1,314.44	1,208.76	105.68	12.438	
11,100.00	9,079.00	11,050.21	9,065.00	54.89	54.87	-89.48	879.39	2,043.09	1,314.51	1,204.80	109.71	11.982	
11,200.00	9,079.00	11,150.21	9,065.00	56.94	56.90	-89.48	879.37	2,143.09	1,314.58	1,200.79	113.79	11.553	
11,300.00	9,079.00	11,250.21	9,065.00	59.00	58.96	-89.48	879.35	2,243.09	1,314.65	1,196.75	117.91	11.150	
11,400.00	9,079.00	11,350.21	9,065.00	61.08	61.03	-89.48	879.33	2,343.09	1,314.72	1,192.66	122.06	10.771	
11,500.00	9,079.00	11,450.21	9,065.00	63.17	63.12	-89.48	879.32	2,443.09	1,314.79	1,188.55	126.24	10.415	
11,600.00	9,079.00	11,550.21	9,065.00	65.28	65.22	-89.48	879.30	2,543.09	1,314.86	1,184.40	130.46	10.079	
11,700.00	9,079.00	11,650.21	9,065.00	67.40	67.34	-89.48	879.28	2,643.09	1,314.93	1,180.23	134.70	9.762	
11,800.00	9,079.00	11,750.21	9,065.00	69.54	69.47	-89.48	879.26	2,743.09	1,315.00	1,176.04	138.96	9.463	
11,900.00	9,079.00	11,850.21	9,065.00	71.68	71.61	-89.48	879.25	2,843.09	1,315.07	1,171.82	143.25	9.180	
12,000.00	9,079.00	11,950.21	9,065.00	73.84	73.76	-89.48	879.23	2,943.09	1,315.14	1,167.59	147.55	8.913	
12,100.00	9,079.00	12,050.21	9,065.00	76.00	75.92	-89.48	879.21	3,043.09	1,315.21	1,163.33	151.88	8.660	
12,200.00	9,079.00	12,150.21	9,065.00	78.17	78.08	-89.48	879.19	3,143.09	1,315.28	1,159.06	156.22	8.420	
12,300.00	9,079.00	12,250.21	9,065.00	80.35	80.26	-89.48	879.18	3,243.09	1,315.35	1,154.78	160.57	8.192	
12,400.00	9,079.00	12,350.21	9,065.00	82.54	82.44	-89.48	879.16	3,343.09	1,315.42	1,150.48	164.94	7.975	
12,500.00	9,079.00	12,450.21	9,065.00	84.73	84.63	-89.48	879.14	3,443.09	1,315.49	1,146.16	169.33	7.769	
12,600.00	9,079.00	12,550.21	9,065.00	86.93	86.83	-89.48	879.12	3,543.09	1,315.56	1,141.84	173.72	7.573	
12,700.00	9,079.00	12,650.21	9,065.00	89.13	89.03	-89.48	879.11	3,643.09	1,315.63	1,137.50	178.13	7.386	
12,800.00	9,079.00	12,750.21	9,065.00	91.34	91.24	-89.48	879.09	3,743.09	1,315.70	1,133.16	182.54	7.208	
12,900.00	9,079.00	12,850.21	9,065.00	93.55	93.45	-89.48	879.07	3,843.09	1,315.77	1,128.80	186.97	7.037	
13,000.00	9,079.00	12,950.21	9,065.00	95.77	95.66	-89.48	879.05	3,943.09	1,315.84	1,124.44	191.40	6.875	
13,100.00	9,079.00	13,050.21	9,065.00	97.99	97.88	-89.48	879.04	4,043.09	1,315.91	1,120.06	195.85	6.719	
13,200.00	9,079.00	13,150.21	9,065.00	100.22	100.11	-89.48	879.02	4,143.09	1,315.98	1,115.68	200.30	6.570	
13,300.00	9,079.00	13,250.21	9,065.00	102.45	102.33	-89.48	879.00	4,243.09	1,316.05	1,111.29	204.75	6.427	
13,400.00	9,079.00	13,350.21	9,065.00	104.68	104.56	-89.48	878.98	4,343.09	1,316.12	1,106.90	209.22	6.291	
13,500.00	9,079.00	13,450.21	9,065.00	106.92	106.80	-89.48	878.97	4,443.09	1,316.19	1,102.50	213.69	6.159	
13,600.00	9,079.00	13,550.21	9,065.00	109.16	109.04	-89.48	878.95	4,543.09	1,316.26	1,098.09	218.17	6.033	
13,700.00	9,079.00	13,650.21	9,065.00	111.40	111.28	-89.48	878.93	4,643.09	1,316.33	1,093.68	222.65	5.912	
13,800.00	9,079.00	13,750.21	9,065.00	113.65	113.52	-89.48	878.91	4,743.09	1,316.40	1,089.26	227.14	5.796	
13,900.00	9,079.00	13,850.21	9,065.00	115.89	115.76	-89.48	878.90	4,843.09	1,316.47	1,084.84	231.63	5.683	
14,000.00	9,079.00	13,950.21	9,065.00	118.14	118.01	-89.48	878.88	4,943.09	1,316.54	1,080.41	236.13	5.576	
14,100.00	9,079.00	14,050.21	9,065.00	120.39	120.26	-89.48	878.86	5,043.09	1,316.61	1,075.98	240.63	5.472	
14,200.00	9,079.00	14,150.21	9,065.00	122.65	122.51	-89.48	878.84	5,143.09	1,316.68	1,071.54	245.13	5.371	
14,300.00	9,079.00	14,250.21	9,065.00	124.90	124.77	-89.48	878.83	5,243.09	1,316.74	1,067.10	249.64	5.274	
14,400.00	9,079.00	14,350.21	9,065.00	127.16	127.03	-89.48	878.81	5,343.09	1,316.81	1,062.66	254.16	5.181	
14,500.00	9,079.00	14,450.21	9,065.00	129.42	129.28	-89.48	878.79	5,443.09	1,316.88	1,058.21	258.68	5.091	
14,600.00	9,079.00	14,550.21	9,065.00	131.68	131.54	-89.48	878.77	5,543.09	1,316.95	1,053.76	263.20	5.004	
14,700.00	9,079.00	14,650.21	9,065.00	133.94	133.80	-89.48	878.76	5,643.09	1,317.02	1,049.30	267.72	4.919	
14,800.00	9,079.00	14,750.21	9,065.00	136.21	136.07	-89.48	878.74	5,743.09	1,317.09	1,044.85	272.25	4.838	
14,900.00	9,079.00	14,850.21	9,065.00	138.47	138.33	-89.48	878.72	5,843.09	1,317.16	1,040.39	276.78	4.759	
15,000.00	9,079.00	14,950.21	9,065.00	140.74	140.60	-89.48	878.70	5,943.09	1,317.23	1,035.92	281.31	4.682	
15,100.00	9,079.00	15,050.21	9,065.00	143.01	142.86	-89.48	878.69	6,043.09	1,317.30	1,031.46	285.85	4.608	
15,200.00	9,079.00	15,150.21	9,065.00	145.28	145.13	-89.48	878.67	6,143.09	1,317.37	1,026.99	290.38	4.537	
15,300.00	9,079.00	15,250.21	9,065.00	147.55	147.40	-89.48	878.65	6,243.09	1,317.44	1,022.52	294.92	4.467	
15,400.00	9,079.00	15,350.21	9,065.00	149.82	149.67	-89.48	878.63	6,343.09	1,317.51	1,018.05	299.47	4.400	

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

Pro Directional

Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well 132H
Project:	Eddy County, NM	**TVD Reference:**	Rig @ 3269.00usft (GL:3,240' + KB:29')
Reference Site:	Leatherneck Fed	**MD Reference:**	Rig @ 3269.00usft (GL:3,240' + KB:29')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	132H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	WellPlanner1
Reference Design:	Prelim Plan A	**Offset TVD Reference:**	Offset Datum

Offset Design Leatherneck Fed - 131H - OH - Prelim Plan A — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+HDGM, 1200-MWD+HDGM, 8500-MWD+HDGM — **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)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
15,500.00	9,079.00	15,450.21	9,065.00	152.09	151.94	-89.48	878.62	6,443.09	1,317.58	1,013.57	304.01	4.334	
15,600.00	9,079.00	15,550.21	9,065.00	154.36	154.22	-89.48	878.60	6,543.09	1,317.65	1,009.10	308.56	4.270	
15,700.00	9,079.00	15,650.21	9,065.00	156.64	156.49	-89.48	878.58	6,643.09	1,317.72	1,004.62	313.10	4.209	
15,800.00	9,079.00	15,750.21	9,065.00	158.92	158.76	-89.48	878.56	6,743.09	1,317.79	1,000.14	317.66	4.148	
15,900.00	9,079.00	15,850.21	9,065.00	161.19	161.04	-89.48	878.55	6,843.09	1,317.86	995.65	322.21	4.090	
16,000.00	9,079.00	15,950.21	9,065.00	163.47	163.32	-89.48	878.53	6,943.09	1,317.93	991.17	326.76	4.033	
16,100.00	9,079.00	16,050.21	9,065.00	165.75	165.59	-89.48	878.51	7,043.09	1,318.00	986.68	331.32	3.978	
16,200.00	9,079.00	16,150.21	9,065.00	168.03	167.87	-89.48	878.50	7,143.09	1,318.07	982.20	335.87	3.924	
16,300.00	9,079.00	16,250.21	9,065.00	170.31	170.15	-89.48	878.48	7,243.09	1,318.14	977.71	340.43	3.872	
16,400.00	9,079.00	16,350.21	9,065.00	172.59	172.43	-89.48	878.46	7,343.09	1,318.21	973.22	344.99	3.821	
16,500.00	9,079.00	16,450.21	9,065.00	174.87	174.71	-89.48	878.44	7,443.09	1,318.28	968.73	349.55	3.771	
16,600.00	9,079.00	16,550.21	9,065.00	177.15	176.99	-89.48	878.43	7,543.09	1,318.35	964.23	354.12	3.723	
16,700.00	9,079.00	16,650.21	9,065.00	179.43	179.27	-89.48	878.41	7,643.09	1,318.42	959.74	358.68	3.676	
16,800.00	9,079.00	16,750.21	9,065.00	181.71	181.56	-89.48	878.39	7,743.09	1,318.49	955.24	363.25	3.630	
16,900.00	9,079.00	16,850.21	9,065.00	184.00	183.84	-89.48	878.37	7,843.09	1,318.56	950.75	367.81	3.585	
17,000.00	9,079.00	16,950.21	9,065.00	186.28	186.12	-89.48	878.36	7,943.09	1,318.63	946.25	372.38	3.541	
17,100.00	9,079.00	17,050.21	9,065.00	188.57	188.41	-89.48	878.34	8,043.09	1,318.70	941.75	376.95	3.498	
17,200.00	9,079.00	17,150.21	9,065.00	190.85	190.69	-89.48	878.32	8,143.09	1,318.77	937.25	381.52	3.457	
17,300.00	9,079.00	17,250.21	9,065.00	193.14	192.98	-89.48	878.30	8,243.09	1,318.84	932.75	386.09	3.416	
17,400.00	9,079.00	17,350.21	9,065.00	195.43	195.26	-89.48	878.29	8,343.09	1,318.91	928.24	390.67	3.376	
17,500.00	9,079.00	17,450.21	9,065.00	197.71	197.55	-89.48	878.27	8,443.09	1,318.98	923.74	395.24	3.337	
17,600.00	9,079.00	17,550.21	9,065.00	200.00	199.84	-89.48	878.25	8,543.09	1,319.05	919.24	399.81	3.299	
17,700.00	9,079.00	17,650.21	9,065.00	202.29	202.12	-89.48	878.23	8,643.09	1,319.12	914.73	404.39	3.262	
17,800.00	9,079.00	17,750.21	9,065.00	204.58	204.41	-89.48	878.22	8,743.09	1,319.19	910.22	408.96	3.226	
17,900.00	9,079.00	17,850.21	9,065.00	206.86	206.70	-89.48	878.20	8,843.09	1,319.26	905.72	413.54	3.190	
18,000.00	9,079.00	17,950.21	9,065.00	209.15	208.99	-89.48	878.18	8,943.09	1,319.33	901.21	418.12	3.155	
18,100.00	9,079.00	18,050.21	9,065.00	211.44	211.28	-89.48	878.16	9,043.09	1,319.40	896.70	422.70	3.121	
18,200.00	9,079.00	18,150.21	9,065.00	213.73	213.56	-89.48	878.15	9,143.09	1,319.47	892.19	427.28	3.088	
18,300.00	9,079.00	18,250.21	9,065.00	216.02	215.85	-89.48	878.13	9,243.09	1,319.54	887.68	431.86	3.056	
18,400.00	9,079.00	18,350.21	9,065.00	218.31	218.14	-89.48	878.11	9,343.09	1,319.61	883.17	436.44	3.024	
18,500.00	9,079.00	18,450.21	9,065.00	220.60	220.43	-89.48	878.09	9,443.09	1,319.68	878.66	441.02	2.992	
18,600.00	9,079.00	18,550.21	9,065.00	222.90	222.73	-89.48	878.08	9,543.09	1,319.75	874.15	445.60	2.962	
18,700.00	9,079.00	18,650.21	9,065.00	225.19	225.02	-89.48	878.06	9,643.09	1,319.82	869.63	450.18	2.932	
18,800.00	9,079.00	18,750.21	9,065.00	227.48	227.31	-89.48	878.04	9,743.09	1,319.89	865.12	454.77	2.902	
18,900.00	9,079.00	18,850.21	9,065.00	229.77	229.60	-89.48	878.02	9,843.09	1,319.96	860.61	459.35	2.874	
19,000.00	9,079.00	18,950.21	9,065.00	232.06	231.89	-89.48	878.01	9,943.09	1,320.03	856.09	463.93	2.845	
19,040.14	9,079.00	18,990.35	9,065.00	232.98	232.81	-89.48	878.00	9,983.23	1,320.05	854.28	465.77	2.834	ES, SF

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

Pro Directional

Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well 132H
Project:	Eddy County, NM	**TVD Reference:**	Rig @ 3269.00usft (GL:3,240' + KB:29')
Reference Site:	Leatherneck Fed	**MD Reference:**	Rig @ 3269.00usft (GL:3,240' + KB:29')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	132H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	WellPlanner1
Reference Design:	Prelim Plan A	**Offset TVD Reference:**	Offset Datum

Offset Design Leatherneck Fed - 201H - OH - Prelim Plan A — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+HDGM, 1200-MWD+HDGM, 8600-MWD+HDGM — **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)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	2.00	-2.00	0.00	0.00	1.24	880.00	19.00	880.21				
100.00	100.00	102.00	98.00	0.13	0.13	1.24	880.00	19.00	880.21	879.94	0.26	3,363.611	
200.00	200.00	202.00	198.00	0.49	0.49	1.24	880.00	19.00	880.21	879.23	0.98	899.428	
300.00	300.00	302.00	298.00	0.84	0.85	1.24	880.00	19.00	880.21	878.51	1.70	519.120	
400.00	400.00	402.00	398.00	1.20	1.21	1.24	880.00	19.00	880.21	877.79	2.41	364.850	
500.00	500.00	502.00	498.00	1.56	1.57	1.24	880.00	19.00	880.21	877.08	3.13	281.264	
600.00	600.00	602.00	598.00	1.92	1.93	1.24	880.00	19.00	880.21	876.36	3.85	228.839	
700.00	700.00	702.00	698.00	2.28	2.29	1.24	880.00	19.00	880.21	875.64	4.56	192.886	
800.00	800.00	802.00	798.00	2.64	2.64	1.24	880.00	19.00	880.21	874.92	5.28	166.696	
900.00	900.00	902.00	898.00	3.00	3.00	1.24	880.00	19.00	880.21	874.21	6.00	146.769	
1,000.00	1,000.00	1,002.00	998.00	3.35	3.36	1.24	880.00	19.00	880.21	873.49	6.71	131.097	
1,100.00	1,100.00	1,102.00	1,098.00	3.71	3.72	1.24	880.00	19.00	880.21	872.77	7.43	118.449	
1,200.00	1,200.00	1,202.00	1,198.00	4.07	4.07	1.24	880.00	19.00	880.21	872.06	8.14	108.073	
1,300.00	1,300.00	1,302.00	1,298.00	4.25	4.25	1.24	880.00	19.00	880.21	871.70	8.51	103.462	
1,400.00	1,400.00	1,398.00	1,398.00	4.28	4.28	1.24	880.00	19.00	880.21	871.64	8.57	102.749	
1,500.00	1,500.00	1,503.29	1,503.28	4.34	4.34	1.18	879.71	18.12	879.91	871.22	8.69	101.301	
1,557.92	1,557.92	1,564.30	1,564.28	4.39	4.40	160.15	879.26	16.76	879.74	870.95	8.79	100.122	CC
1,600.00	1,599.99	1,608.62	1,608.58	4.43	4.44	160.08	878.81	15.39	879.83	870.97	8.86	99.288	
1,700.00	1,699.96	1,713.88	1,713.72	4.53	4.56	159.84	877.31	10.84	880.79	871.70	9.09	96.911	
1,800.00	1,799.86	1,819.00	1,818.63	4.67	4.71	159.53	875.20	4.46	882.81	873.44	9.37	94.215	
1,900.00	1,899.68	1,922.79	1,922.07	4.82	4.88	159.14	872.55	-3.59	885.92	876.22	9.70	91.327	
2,000.00	1,999.37	2,022.53	2,021.43	5.00	5.08	158.77	869.82	-11.85	890.52	880.45	10.07	88.435	
2,100.00	2,098.90	2,122.22	2,120.74	5.21	5.29	158.44	867.10	-20.10	896.77	886.29	10.48	85.578	
2,200.00	2,198.26	2,221.82	2,219.96	5.43	5.52	158.15	864.38	-28.34	904.67	893.75	10.92	82.815	
2,300.00	2,297.51	2,321.37	2,319.13	5.68	5.76	157.91	861.66	-36.58	913.39	901.99	11.40	80.121	
2,400.00	2,396.77	2,420.92	2,418.30	5.94	6.02	157.68	858.94	-44.82	922.13	910.22	11.90	77.466	
2,500.00	2,496.02	2,520.47	2,517.47	6.22	6.29	157.45	856.22	-53.06	930.88	918.45	12.43	74.878	
2,600.00	2,595.28	2,620.01	2,616.64	6.51	6.58	157.22	853.51	-61.30	939.64	926.66	12.98	72.381	
2,700.00	2,694.53	2,719.56	2,715.81	6.81	6.87	157.00	850.79	-69.54	948.42	934.87	13.55	69.989	
2,800.00	2,793.79	2,819.11	2,814.98	7.12	7.17	156.79	848.07	-77.78	957.22	943.08	14.14	67.710	
2,900.00	2,893.04	2,918.66	2,914.15	7.44	7.47	156.58	845.35	-86.02	966.02	951.29	14.74	65.548	
3,000.00	2,992.30	3,018.21	3,013.32	7.77	7.78	156.37	842.63	-94.26	974.84	959.49	15.35	63.501	
3,100.00	3,091.55	3,117.76	3,112.49	8.10	8.10	156.16	839.91	-102.49	983.67	967.70	15.98	61.567	
3,200.00	3,190.81	3,217.30	3,211.66	8.44	8.42	155.96	837.19	-110.73	992.52	975.90	16.61	59.743	
3,300.00	3,290.06	3,316.85	3,310.83	8.78	8.75	155.77	834.48	-118.97	1,001.37	984.12	17.26	58.022	
3,400.00	3,389.32	3,416.40	3,410.00	9.13	9.08	155.57	831.76	-127.21	1,010.24	992.33	17.91	56.400	
3,500.00	3,488.57	3,515.95	3,509.17	9.48	9.42	155.38	829.04	-135.45	1,019.12	1,000.55	18.57	54.872	
3,600.00	3,587.82	3,615.50	3,608.34	9.84	9.76	155.19	826.32	-143.69	1,028.01	1,008.77	19.24	53.430	
3,700.00	3,687.08	3,715.05	3,707.51	10.19	10.10	155.01	823.60	-151.93	1,036.91	1,017.00	19.91	52.070	
3,800.00	3,786.33	3,814.59	3,806.67	10.56	10.44	154.83	820.88	-160.17	1,045.82	1,025.23	20.59	50.786	
3,900.00	3,885.59	3,910.95	3,902.69	10.92	10.77	154.67	818.34	-167.86	1,054.82	1,033.56	21.26	49.608	
4,000.00	3,984.84	4,004.23	3,995.79	11.29	11.09	154.63	816.52	-173.40	1,064.34	1,042.42	21.92	48.561	
4,100.00	4,084.10	4,097.39	4,088.88	11.65	11.40	154.71	815.40	-176.78	1,074.45	1,051.89	22.57	47.615	
4,200.00	4,183.35	4,190.32	4,181.79	12.03	11.69	154.90	815.00	-178.00	1,085.16	1,061.96	23.20	46.778	
4,300.00	4,282.61	4,289.13	4,280.61	12.40	12.00	155.17	815.00	-178.00	1,096.22	1,072.37	23.84	45.975	
4,400.00	4,381.86	4,388.39	4,379.86	12.77	12.30	155.43	815.00	-178.00	1,107.30	1,082.81	24.49	45.207	
4,500.00	4,481.12	4,487.64	4,479.12	13.15	12.61	155.69	815.00	-178.00	1,118.41	1,093.26	25.15	44.472	
4,600.00	4,580.37	4,586.90	4,578.37	13.52	12.92	155.94	815.00	-178.00	1,129.54	1,103.74	25.81	43.769	
4,700.00	4,679.63	4,686.15	4,677.63	13.90	13.23	156.19	815.00	-178.00	1,140.70	1,114.23	26.47	43.096	
4,800.00	4,778.88	4,785.41	4,776.88	14.28	13.55	156.44	815.00	-178.00	1,151.87	1,124.74	27.13	42.452	
4,900.00	4,878.13	4,884.66	4,876.13	14.66	13.86	156.68	815.00	-178.00	1,163.07	1,135.26	27.80	41.836	
5,000.00	4,977.39	4,983.92	4,975.39	15.04	14.18	156.91	815.00	-178.00	1,174.28	1,145.81	28.47	41.245	

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

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well 132H
Project:	Eddy County, NM	**TVD Reference:**	Rig @ 3269.00usft (GL:3,240' + KB:29')
Reference Site:	Leatherneck Fed	**MD Reference:**	Rig @ 3269.00usft (GL:3,240' + KB:29')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	132H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	WellPlanner1
Reference Design:	Prelim Plan A	**Offset TVD Reference:**	Offset Datum

Offset Design Leatherneck Fed - 201H - OH - Prelim Plan A — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+HDGM, 1200-MWD+HDGM, 8600-MWD+HDGM — **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)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	5,076.64	5,083.17	5,074.64	15.42	14.50	157.14	815.00	-178.00	1,185.51	1,156.37	29.14	40.678	
5,200.00	5,175.90	5,182.43	5,173.90	15.81	14.83	157.37	815.00	-178.00	1,196.76	1,166.95	29.82	40.135	
5,300.00	5,275.15	5,281.68	5,273.15	16.19	15.15	157.59	815.00	-178.00	1,208.03	1,177.54	30.50	39.613	
5,400.00	5,374.41	5,380.94	5,372.41	16.57	15.47	157.81	815.00	-178.00	1,219.32	1,188.15	31.18	39.112	
5,500.00	5,473.66	5,480.19	5,471.66	16.96	15.80	158.02	815.00	-178.00	1,230.63	1,198.77	31.86	38.630	
5,600.00	5,572.92	5,579.44	5,570.92	17.34	16.13	158.23	815.00	-178.00	1,241.95	1,209.41	32.54	38.168	
5,700.00	5,672.17	5,678.70	5,670.17	17.73	16.46	158.44	815.00	-178.00	1,253.29	1,220.06	33.22	37.722	
5,800.00	5,771.43	5,777.95	5,769.43	18.12	16.79	158.64	815.00	-178.00	1,264.64	1,230.73	33.91	37.294	
5,900.00	5,870.68	5,877.21	5,868.68	18.50	17.12	158.84	815.00	-178.00	1,276.01	1,241.41	34.60	36.881	
6,000.00	5,969.94	5,976.46	5,967.94	18.89	17.45	159.04	815.00	-178.00	1,287.39	1,252.11	35.29	36.484	
6,100.00	6,069.34	6,075.87	6,067.34	19.27	17.78	159.26	815.00	-178.00	1,297.58	1,261.60	35.98	36.069	
6,200.00	6,168.99	6,175.52	6,166.99	19.64	18.12	159.43	815.00	-178.00	1,305.33	1,268.67	36.66	35.605	
6,300.00	6,268.83	6,275.36	6,266.83	20.00	18.46	159.55	815.00	-178.00	1,310.65	1,273.30	37.35	35.094	
6,400.00	6,368.78	6,375.31	6,366.78	20.34	18.79	159.61	815.00	-178.00	1,313.52	1,275.49	38.03	34.541	
6,500.00	6,468.77	6,475.30	6,466.77	20.64	19.13	0.57	815.00	-178.00	1,314.06	1,275.38	38.69	33.967	
6,600.00	6,568.77	6,575.30	6,566.77	20.94	19.47	0.57	815.00	-178.00	1,314.06	1,274.73	39.34	33.405	
6,700.00	6,668.77	6,675.30	6,666.77	21.23	19.81	0.57	815.00	-178.00	1,314.06	1,274.08	39.99	32.861	
6,800.00	6,768.77	6,775.30	6,766.77	21.53	20.15	0.57	815.00	-178.00	1,314.06	1,273.42	40.64	32.331	
6,900.00	6,868.77	6,875.30	6,866.77	21.83	20.49	0.57	815.00	-178.00	1,314.06	1,272.76	41.30	31.817	
7,000.00	6,968.77	6,975.30	6,966.77	22.13	20.83	0.57	815.00	-178.00	1,314.06	1,272.11	41.96	31.318	
7,100.00	7,068.77	7,075.30	7,066.77	22.43	21.18	0.57	815.00	-178.00	1,314.06	1,271.45	42.62	30.833	
7,200.00	7,168.77	7,175.30	7,166.77	22.73	21.52	0.57	815.00	-178.00	1,314.06	1,270.78	43.28	30.361	
7,300.00	7,268.77	7,275.30	7,266.77	23.04	21.86	0.57	815.00	-178.00	1,314.06	1,270.12	43.94	29.903	
7,400.00	7,368.77	7,375.30	7,366.77	23.35	22.21	0.57	815.00	-178.00	1,314.06	1,269.45	44.61	29.457	
7,500.00	7,468.77	7,475.30	7,466.77	23.65	22.55	0.57	815.00	-178.00	1,314.06	1,268.79	45.28	29.023	
7,600.00	7,568.77	7,575.30	7,566.77	23.96	22.90	0.57	815.00	-178.00	1,314.06	1,268.12	45.95	28.600	
7,700.00	7,668.77	7,675.30	7,666.77	24.28	23.24	0.57	815.00	-178.00	1,314.06	1,267.45	46.62	28.189	
7,800.00	7,768.77	7,775.30	7,766.77	24.59	23.59	0.57	815.00	-178.00	1,314.06	1,266.78	47.29	27.789	
7,900.00	7,868.77	7,875.30	7,866.77	24.90	23.93	0.57	815.00	-178.00	1,314.06	1,266.11	47.96	27.400	
8,000.00	7,968.77	7,975.30	7,966.77	25.22	24.28	0.57	815.00	-178.00	1,314.06	1,265.43	48.63	27.020	
8,100.00	8,068.77	8,075.30	8,066.77	25.53	24.63	0.57	815.00	-178.00	1,314.06	1,264.76	49.31	26.650	
8,200.00	8,168.77	8,175.30	8,166.77	25.85	24.97	0.57	815.00	-178.00	1,314.06	1,264.08	49.98	26.290	
8,300.00	8,268.77	8,275.30	8,266.77	26.17	25.32	0.57	815.00	-178.00	1,314.06	1,263.40	50.66	25.938	
8,400.00	8,368.77	8,375.30	8,366.77	26.49	25.67	0.57	815.00	-178.00	1,314.06	1,262.72	51.34	25.595	
8,500.00	8,468.77	8,475.30	8,466.77	26.65	26.02	0.57	815.00	-178.00	1,314.06	1,262.21	51.85	25.341	
8,600.00	8,568.62	8,575.15	8,566.62	26.65	26.23	-78.62	815.00	-178.00	1,313.28	1,261.20	52.07	25.219	
8,700.00	8,666.41	8,672.94	8,664.41	26.63	26.28	-79.85	815.00	-178.00	1,309.39	1,257.27	52.12	25.122	
8,800.00	8,759.19	8,746.20	8,737.56	26.61	26.28	-81.45	815.56	-174.84	1,303.71	1,251.61	52.10	25.025	
8,900.00	8,844.14	8,817.92	8,808.22	26.59	26.28	-83.19	817.66	-163.01	1,297.99	1,245.91	52.08	24.921	
9,000.00	8,918.69	8,892.18	8,879.21	26.58	26.27	-85.45	821.45	-141.72	1,292.79	1,240.66	52.13	24.801	
9,071.75	8,964.65	8,947.55	8,929.99	26.59	26.26	-88.20	825.30	-120.06	1,291.28	1,239.04	52.23	24.721	
9,100.00	8,980.86	8,969.92	8,949.87	26.59	26.26	-89.10	827.10	-109.95	1,291.51	1,239.23	52.28	24.703	
9,200.00	9,028.92	9,052.19	9,019.16	26.65	26.27	-91.60	834.83	-66.42	1,296.24	1,243.65	52.59	24.646	
9,300.00	9,061.42	9,140.25	9,085.50	26.93	26.31	-93.19	844.94	-9.54	1,307.03	1,253.92	53.11	24.612	
9,400.00	9,077.37	9,358.16	9,206.25	27.58	26.80	-96.21	869.70	168.59	1,321.71	1,267.50	54.21	24.382	
9,500.00	9,079.00	9,639.46	9,254.00	28.42	28.64	-97.68	879.66	443.09	1,325.21	1,268.34	56.87	23.303	
9,600.00	9,079.00	9,739.46	9,254.00	29.42	29.61	-97.68	879.65	543.09	1,325.28	1,266.47	58.81	22.534	
9,700.00	9,079.00	9,839.46	9,254.00	30.56	30.72	-97.67	879.63	643.09	1,325.35	1,264.32	61.04	21.714	
9,800.00	9,079.00	9,939.46	9,254.00	31.84	31.96	-97.67	879.61	743.09	1,325.42	1,261.91	63.51	20.869	
9,900.00	9,079.00	10,039.46	9,254.00	33.22	33.31	-97.67	879.59	843.09	1,325.49	1,259.28	66.21	20.019	
10,000.00	9,079.00	10,139.46	9,254.00	34.70	34.77	-97.67	879.58	943.09	1,325.56	1,256.45	69.11	19.180	
10,100.00	9,079.00	10,239.46	9,254.00	36.27	36.31	-97.67	879.56	1,043.09	1,325.63	1,253.44	72.18	18.365	

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

Pro Directional

Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well 132H
Project:	Eddy County, NM	**TVD Reference:**	Rig @ 3269.00usft (GL:3,240' + KB:29')
Reference Site:	Leatherneck Fed	**MD Reference:**	Rig @ 3269.00usft (GL:3,240' + KB:29')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	132H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	WellPlanner1
Reference Design:	Prelim Plan A	**Offset TVD Reference:**	Offset Datum

Offset Design Leatherneck Fed - 201H - OH - Prelim Plan A — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+HDGM, 1200-MWD+HDGM, 8600-MWD+HDGM — **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)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,200.00	9,079.00	10,339.46	9,254.00	37.91	37.93	-97.67	879.54	1,143.09	1,325.70	1,250.29	75.41	17.580	
10,300.00	9,079.00	10,439.46	9,254.00	39.62	39.62	-97.67	879.52	1,243.09	1,325.77	1,247.00	78.77	16.831	
10,400.00	9,079.00	10,539.46	9,254.00	41.39	41.36	-97.67	879.51	1,343.09	1,325.84	1,243.59	82.25	16.120	
10,500.00	9,079.00	10,639.46	9,254.00	43.21	43.16	-97.67	879.49	1,443.09	1,325.90	1,240.08	85.83	15.449	
10,600.00	9,079.00	10,739.46	9,254.00	45.07	45.01	-97.67	879.47	1,543.09	1,325.97	1,236.48	89.50	14.816	
10,700.00	9,079.00	10,839.46	9,254.00	46.97	46.90	-97.67	879.46	1,643.09	1,326.04	1,232.79	93.25	14.221	
10,800.00	9,079.00	10,939.46	9,254.00	48.91	48.82	-97.67	879.44	1,743.09	1,326.11	1,229.04	97.07	13.661	
10,900.00	9,079.00	11,039.46	9,254.00	50.88	50.78	-97.67	879.42	1,843.09	1,326.18	1,225.23	100.96	13.136	
11,000.00	9,079.00	11,139.46	9,254.00	52.87	52.76	-97.67	879.40	1,943.09	1,326.25	1,221.35	104.90	12.643	
11,100.00	9,079.00	11,239.46	9,254.00	54.89	54.77	-97.67	879.39	2,043.09	1,326.32	1,217.43	108.89	12.181	
11,200.00	9,079.00	11,339.46	9,254.00	56.94	56.80	-97.67	879.37	2,143.09	1,326.39	1,213.47	112.92	11.746	
11,300.00	9,079.00	11,439.46	9,254.00	59.00	58.86	-97.67	879.35	2,243.09	1,326.46	1,209.46	117.00	11.338	
11,400.00	9,079.00	11,539.46	9,254.00	61.08	60.93	-97.67	879.33	2,343.09	1,326.53	1,205.42	121.11	10.953	
11,500.00	9,079.00	11,639.46	9,254.00	63.17	63.01	-97.67	879.32	2,443.09	1,326.60	1,201.35	125.25	10.592	
11,600.00	9,079.00	11,739.46	9,254.00	65.28	65.12	-97.67	879.30	2,543.09	1,326.67	1,197.24	129.42	10.251	
11,700.00	9,079.00	11,839.46	9,254.00	67.40	67.23	-97.67	879.28	2,643.09	1,326.73	1,193.11	133.62	9.929	
11,800.00	9,079.00	11,939.46	9,254.00	69.54	69.36	-97.67	879.26	2,743.09	1,326.80	1,188.96	137.84	9.625	
11,900.00	9,079.00	12,039.46	9,254.00	71.68	71.50	-97.67	879.25	2,843.09	1,326.87	1,184.78	142.09	9.338	
12,000.00	9,079.00	12,139.46	9,254.00	73.84	73.65	-97.67	879.23	2,943.09	1,326.94	1,180.59	146.35	9.067	
12,100.00	9,079.00	12,239.46	9,254.00	76.00	75.81	-97.67	879.21	3,043.09	1,327.01	1,176.37	150.64	8.809	
12,200.00	9,079.00	12,339.46	9,254.00	78.17	77.97	-97.66	879.19	3,143.09	1,327.08	1,172.14	154.94	8.565	
12,300.00	9,079.00	12,439.46	9,254.00	80.35	80.15	-97.66	879.18	3,243.09	1,327.15	1,167.90	159.25	8.334	
12,400.00	9,079.00	12,539.46	9,254.00	82.54	82.33	-97.66	879.16	3,343.09	1,327.22	1,163.64	163.58	8.113	
12,500.00	9,079.00	12,639.46	9,254.00	84.73	84.52	-97.66	879.14	3,443.09	1,327.29	1,159.36	167.93	7.904	
12,600.00	9,079.00	12,739.46	9,254.00	86.93	86.71	-97.66	879.12	3,543.09	1,327.36	1,155.08	172.28	7.705	
12,700.00	9,079.00	12,839.46	9,254.00	89.13	88.91	-97.66	879.11	3,643.09	1,327.43	1,150.78	176.65	7.515	
12,800.00	9,079.00	12,939.46	9,254.00	91.34	91.12	-97.66	879.09	3,743.09	1,327.50	1,146.47	181.02	7.333	
12,900.00	9,079.00	13,039.46	9,254.00	93.55	93.33	-97.66	879.07	3,843.09	1,327.57	1,142.16	185.41	7.160	
13,000.00	9,079.00	13,139.46	9,254.00	95.77	95.54	-97.66	879.05	3,943.09	1,327.63	1,137.83	189.80	6.995	
13,100.00	9,079.00	13,239.46	9,254.00	97.99	97.76	-97.66	879.04	4,043.09	1,327.70	1,133.50	194.21	6.837	
13,200.00	9,079.00	13,339.46	9,254.00	100.22	99.99	-97.66	879.02	4,143.09	1,327.77	1,129.15	198.62	6.685	
13,300.00	9,079.00	13,439.46	9,254.00	102.45	102.21	-97.66	879.00	4,243.09	1,327.84	1,124.80	203.04	6.540	
13,400.00	9,079.00	13,539.46	9,254.00	104.68	104.44	-97.66	878.98	4,343.09	1,327.91	1,120.45	207.46	6.401	
13,500.00	9,079.00	13,639.46	9,254.00	106.92	106.68	-97.66	878.97	4,443.09	1,327.98	1,116.09	211.90	6.267	
13,600.00	9,079.00	13,739.46	9,254.00	109.16	108.91	-97.66	878.95	4,543.09	1,328.05	1,111.72	216.33	6.139	
13,700.00	9,079.00	13,839.46	9,254.00	111.40	111.15	-97.66	878.93	4,643.09	1,328.12	1,107.34	220.78	6.016	
13,800.00	9,079.00	13,939.46	9,254.00	113.65	113.40	-97.66	878.91	4,743.09	1,328.19	1,102.96	225.23	5.897	
13,900.00	9,079.00	14,039.46	9,254.00	115.89	115.64	-97.66	878.90	4,843.09	1,328.26	1,098.58	229.68	5.783	
14,000.00	9,079.00	14,139.46	9,254.00	118.14	117.89	-97.66	878.88	4,943.09	1,328.33	1,094.19	234.14	5.673	
14,100.00	9,079.00	14,239.46	9,254.00	120.39	120.14	-97.66	878.86	5,043.09	1,328.40	1,089.79	238.60	5.567	
14,200.00	9,079.00	14,339.46	9,254.00	122.65	122.39	-97.66	878.84	5,143.09	1,328.46	1,085.39	243.07	5.465	
14,300.00	9,079.00	14,439.46	9,254.00	124.90	124.64	-97.66	878.83	5,243.09	1,328.53	1,080.99	247.54	5.367	
14,400.00	9,079.00	14,539.46	9,254.00	127.16	126.90	-97.66	878.81	5,343.09	1,328.60	1,076.59	252.02	5.272	
14,500.00	9,079.00	14,639.46	9,254.00	129.42	129.16	-97.66	878.79	5,443.09	1,328.67	1,072.18	256.50	5.180	
14,600.00	9,079.00	14,739.46	9,254.00	131.68	131.42	-97.66	878.77	5,543.09	1,328.74	1,067.76	260.98	5.091	
14,700.00	9,079.00	14,839.46	9,254.00	133.94	133.68	-97.65	878.76	5,643.09	1,328.81	1,063.35	265.46	5.006	
14,800.00	9,079.00	14,939.46	9,254.00	136.21	135.94	-97.65	878.74	5,743.09	1,328.88	1,058.93	269.95	4.923	
14,900.00	9,079.00	15,039.46	9,254.00	138.47	138.20	-97.65	878.72	5,843.09	1,328.95	1,054.51	274.44	4.842	
15,000.00	9,079.00	15,139.46	9,254.00	140.74	140.47	-97.65	878.70	5,943.09	1,329.02	1,050.08	278.94	4.765	
15,100.00	9,079.00	15,239.46	9,254.00	143.01	142.74	-97.65	878.69	6,043.09	1,329.09	1,045.65	283.44	4.689	
15,200.00	9,079.00	15,339.46	9,254.00	145.28	145.00	-97.65	878.67	6,143.09	1,329.16	1,041.22	287.93	4.616	
15,300.00	9,079.00	15,439.46	9,254.00	147.55	147.27	-97.65	878.65	6,243.09	1,329.23	1,036.79	292.44	4.545	

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

Pro Directional

Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well 132H
Project:	Eddy County, NM	**TVD Reference:**	Rig @ 3269.00usft (GL:3,240' + KB:29')
Reference Site:	Leatherneck Fed	**MD Reference:**	Rig @ 3269.00usft (GL:3,240' + KB:29')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	132H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	WellPlanner1
Reference Design:	Prelim Plan A	**Offset TVD Reference:**	Offset Datum

Offset Design Leatherneck Fed - 201H - OH - Prelim Plan A — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+HDGM, 1200-MWD+HDGM, 8600-MWD+HDGM — **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)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
15,400.00	9,079.00	15,539.46	9,254.00	149.82	149.54	-97.65	878.63	6,343.09	1,329.29	1,032.35	296.94	4.477	
15,500.00	9,079.00	15,639.46	9,254.00	152.09	151.81	-97.65	878.62	6,443.09	1,329.36	1,027.92	301.45	4.410	
15,600.00	9,079.00	15,739.46	9,254.00	154.36	154.09	-97.65	878.60	6,543.09	1,329.43	1,023.48	305.96	4.345	
15,700.00	9,079.00	15,839.46	9,254.00	156.64	156.36	-97.65	878.58	6,643.09	1,329.50	1,019.04	310.47	4.282	
15,800.00	9,079.00	15,939.46	9,254.00	158.92	158.63	-97.65	878.56	6,743.09	1,329.57	1,014.59	314.98	4.221	
15,900.00	9,079.00	16,039.46	9,254.00	161.19	160.91	-97.65	878.55	6,843.09	1,329.64	1,010.15	319.49	4.162	
16,000.00	9,079.00	16,139.46	9,254.00	163.47	163.19	-97.65	878.53	6,943.09	1,329.71	1,005.70	324.01	4.104	
16,100.00	9,079.00	16,239.46	9,254.00	165.75	165.46	-97.65	878.51	7,043.09	1,329.78	1,001.25	328.53	4.048	
16,200.00	9,079.00	16,339.46	9,254.00	168.03	167.74	-97.65	878.50	7,143.09	1,329.85	996.80	333.05	3.993	
16,300.00	9,079.00	16,439.46	9,254.00	170.31	170.02	-97.65	878.48	7,243.09	1,329.92	992.35	337.57	3.940	
16,400.00	9,079.00	16,539.46	9,254.00	172.59	172.30	-97.65	878.46	7,343.09	1,329.99	987.90	342.09	3.888	
16,500.00	9,079.00	16,639.46	9,254.00	174.87	174.58	-97.65	878.44	7,443.09	1,330.06	983.44	346.61	3.837	
16,600.00	9,079.00	16,739.46	9,254.00	177.15	176.86	-97.65	878.43	7,543.09	1,330.13	978.99	351.14	3.788	
16,700.00	9,079.00	16,839.46	9,254.00	179.43	179.14	-97.65	878.41	7,643.09	1,330.19	974.53	355.67	3.740	
16,800.00	9,079.00	16,939.46	9,254.00	181.71	181.42	-97.65	878.39	7,743.09	1,330.26	970.07	360.19	3.693	
16,900.00	9,079.00	17,039.46	9,254.00	184.00	183.71	-97.65	878.37	7,843.09	1,330.33	965.61	364.72	3.648	
17,000.00	9,079.00	17,139.46	9,254.00	186.28	185.99	-97.65	878.36	7,943.09	1,330.40	961.15	369.25	3.603	
17,100.00	9,079.00	17,239.46	9,254.00	188.57	188.27	-97.65	878.34	8,043.09	1,330.47	956.69	373.78	3.559	
17,200.00	9,079.00	17,339.46	9,254.00	190.85	190.56	-97.64	878.32	8,143.09	1,330.54	952.22	378.32	3.517	
17,300.00	9,079.00	17,439.46	9,254.00	193.14	192.84	-97.64	878.30	8,243.09	1,330.61	947.76	382.85	3.476	
17,400.00	9,079.00	17,539.46	9,254.00	195.43	195.13	-97.64	878.29	8,343.09	1,330.68	943.29	387.38	3.435	
17,500.00	9,079.00	17,639.46	9,254.00	197.71	197.42	-97.64	878.27	8,443.09	1,330.75	938.83	391.92	3.395	
17,600.00	9,079.00	17,739.46	9,254.00	200.00	199.70	-97.64	878.25	8,543.09	1,330.82	934.36	396.46	3.357	
17,700.00	9,079.00	17,839.46	9,254.00	202.29	201.99	-97.64	878.23	8,643.09	1,330.89	929.89	400.99	3.319	
17,800.00	9,079.00	17,939.46	9,254.00	204.58	204.28	-97.64	878.22	8,743.09	1,330.96	925.42	405.53	3.282	
17,900.00	9,079.00	18,039.46	9,254.00	206.86	206.57	-97.64	878.20	8,843.09	1,331.02	920.95	410.07	3.246	
18,000.00	9,079.00	18,139.46	9,254.00	209.15	208.85	-97.64	878.18	8,943.09	1,331.09	916.48	414.61	3.210	
18,100.00	9,079.00	18,239.46	9,254.00	211.44	211.14	-97.64	878.16	9,043.09	1,331.16	912.01	419.15	3.176	
18,200.00	9,079.00	18,339.46	9,254.00	213.73	213.43	-97.64	878.15	9,143.09	1,331.23	907.54	423.69	3.142	
18,300.00	9,079.00	18,439.46	9,254.00	216.02	215.72	-97.64	878.13	9,243.09	1,331.30	903.06	428.24	3.109	
18,400.00	9,079.00	18,539.46	9,254.00	218.31	218.01	-97.64	878.11	9,343.09	1,331.37	898.59	432.78	3.076	
18,500.00	9,079.00	18,639.46	9,254.00	220.60	220.30	-97.64	878.09	9,443.09	1,331.44	894.12	437.32	3.045	
18,600.00	9,079.00	18,739.46	9,254.00	222.90	222.59	-97.64	878.08	9,543.09	1,331.51	889.64	441.87	3.013	
18,700.00	9,079.00	18,839.46	9,254.00	225.19	224.88	-97.64	878.06	9,643.09	1,331.58	885.16	446.41	2.983	
18,800.00	9,079.00	18,939.46	9,254.00	227.48	227.17	-97.64	878.04	9,743.09	1,331.65	880.69	450.96	2.953	
18,900.00	9,079.00	19,039.46	9,254.00	229.77	229.47	-97.64	878.02	9,843.09	1,331.72	876.21	455.51	2.924	
19,000.00	9,079.00	19,139.46	9,254.00	232.06	231.76	-97.64	878.01	9,943.09	1,331.79	871.73	460.05	2.895	
19,040.14	9,079.00	19,179.60	9,254.00	232.98	232.68	-97.64	878.00	9,983.23	1,331.81	869.93	461.88	2.883	ES, SF

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

Pro Directional

Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well 132H
Project:	Eddy County, NM	**TVD Reference:**	Rig @ 3269.00usft (GL:3,240' + KB:29')
Reference Site:	Leatherneck Fed	**MD Reference:**	Rig @ 3269.00usft (GL:3,240' + KB:29')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	132H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	WellPlanner1
Reference Design:	Prelim Plan A	**Offset TVD Reference:**	Offset Datum

Offset Design Leatherneck Fed - 202H - OH - Prelim Plan A — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+HDGM — **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)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	0.00	30.00	0.00	30.00				
100.00	100.00	100.00	100.00	0.13	0.13	0.00	30.00	0.00	30.00	29.75	0.25	117.871	
200.00	200.00	200.00	200.00	0.49	0.49	0.00	30.00	0.00	30.00	29.03	0.97	30.881	
300.00	300.00	300.00	300.00	0.84	0.84	0.00	30.00	0.00	30.00	28.31	1.69	17.768	
400.00	400.00	400.00	400.00	1.20	1.20	0.00	30.00	0.00	30.00	27.59	2.41	12.472	
500.00	500.00	500.00	500.00	1.56	1.56	0.00	30.00	0.00	30.00	26.88	3.12	9.608	
600.00	600.00	600.00	600.00	1.92	1.92	0.00	30.00	0.00	30.00	26.16	3.84	7.814	
700.00	700.00	700.00	700.00	2.28	2.28	0.00	30.00	0.00	30.00	25.44	4.56	6.584	
800.00	800.00	800.00	800.00	2.64	2.64	0.00	30.00	0.00	30.00	24.73	5.27	5.689	
900.00	900.00	900.00	900.00	3.00	3.00	0.00	30.00	0.00	30.00	24.01	5.99	5.008	
1,000.00	1,000.00	1,000.00	1,000.00	3.35	3.35	0.00	30.00	0.00	30.00	23.29	6.71	4.473	
1,100.00	1,100.00	1,100.00	1,100.00	3.71	3.71	0.00	30.00	0.00	30.00	22.58	7.42	4.041	
1,200.00	1,200.00	1,200.00	1,200.00	4.07	4.07	0.00	30.00	0.00	30.00	21.86	8.14	3.685	
1,300.00	1,300.00	1,300.00	1,300.00	4.25	4.43	0.00	30.00	0.00	30.00	21.32	8.68	3.455	
1,400.00	1,400.00	1,400.00	1,400.00	4.28	4.79	0.00	30.00	0.00	30.00	20.93	9.07	3.307	
1,500.00	1,500.00	1,500.00	1,500.00	4.34	5.15	0.00	30.00	0.00	30.00	20.51	9.49	3.162	CC
1,600.00	1,599.99	1,599.99	1,599.99	4.43	5.50	159.63	30.00	0.00	30.82	20.89	9.93	3.103	
1,700.00	1,699.96	1,700.48	1,700.48	4.53	5.85	160.58	29.21	-0.38	32.48	22.10	10.38	3.129	
1,800.00	1,799.86	1,801.00	1,800.96	4.67	6.18	161.22	26.82	-1.52	34.20	23.36	10.84	3.156	
1,900.00	1,899.68	1,901.55	1,901.42	4.82	6.51	161.57	22.84	-3.43	35.95	24.64	11.32	3.177	
2,000.00	1,999.37	2,002.13	2,001.80	5.00	6.84	161.68	17.28	-6.09	37.76	25.93	11.82	3.193	
2,100.00	2,098.90	2,102.74	2,102.10	5.21	7.18	161.59	10.12	-9.52	39.60	27.25	12.35	3.207	
2,200.00	2,198.26	2,203.38	2,202.26	5.43	7.53	161.31	1.37	-13.71	41.48	28.59	12.89	3.217	
2,300.00	2,297.51	2,303.34	2,301.68	5.68	7.88	161.01	-8.05	-18.22	43.44	29.97	13.47	3.225	
2,400.00	2,396.77	2,403.32	2,401.11	5.94	8.23	160.73	-17.48	-22.73	45.39	31.34	14.06	3.229	
2,500.00	2,496.02	2,503.30	2,500.54	6.22	8.58	160.48	-26.91	-27.24	47.35	32.69	14.66	3.229	
2,600.00	2,595.28	2,603.28	2,599.97	6.51	8.94	160.24	-36.33	-31.75	49.31	34.03	15.28	3.227	
2,700.00	2,694.53	2,703.26	2,699.41	6.81	9.30	160.03	-45.76	-36.27	51.27	35.36	15.91	3.222	
2,800.00	2,793.79	2,803.24	2,798.84	7.12	9.66	159.82	-55.19	-40.78	53.23	36.68	16.56	3.216	
2,900.00	2,893.04	2,903.22	2,898.27	7.44	10.02	159.64	-64.61	-45.29	55.20	37.99	17.20	3.208	
3,000.00	2,992.30	3,003.20	2,997.71	7.77	10.39	159.47	-74.04	-49.80	57.16	39.29	17.86	3.200	
3,100.00	3,091.55	3,103.18	3,097.14	8.10	10.75	159.30	-83.47	-54.32	59.12	40.59	18.53	3.191	
3,200.00	3,190.81	3,203.16	3,196.57	8.44	11.12	159.15	-92.89	-58.83	61.08	41.88	19.20	3.182	
3,300.00	3,290.06	3,303.14	3,296.00	8.78	11.49	159.01	-102.32	-63.34	63.05	43.17	19.88	3.172	
3,400.00	3,389.32	3,403.12	3,395.44	9.13	11.86	158.88	-111.74	-67.85	65.01	44.45	20.56	3.162	
3,500.00	3,488.57	3,503.10	3,494.87	9.48	12.24	158.75	-121.17	-72.37	66.97	45.73	21.24	3.153	
3,600.00	3,587.82	3,603.09	3,594.30	9.84	12.61	158.63	-130.60	-76.88	68.94	47.00	21.94	3.143	
3,700.00	3,687.08	3,703.07	3,693.74	10.19	12.98	158.52	-140.02	-81.39	70.90	48.27	22.63	3.133	
3,800.00	3,786.33	3,803.05	3,793.17	10.56	13.36	158.42	-149.45	-85.90	72.87	49.54	23.33	3.124	
3,900.00	3,885.59	3,903.03	3,892.60	10.92	13.73	158.32	-158.88	-90.41	74.83	50.81	24.03	3.114	
4,000.00	3,984.84	4,003.01	3,992.03	11.29	14.11	158.22	-168.30	-94.93	76.80	52.07	24.73	3.105	
4,100.00	4,084.10	4,102.99	4,091.47	11.65	14.49	158.13	-177.73	-99.44	78.77	53.33	25.44	3.096	
4,200.00	4,183.35	4,202.97	4,190.90	12.03	14.86	158.04	-187.16	-103.95	80.73	54.58	26.15	3.088	
4,300.00	4,282.61	4,302.95	4,290.33	12.40	15.24	157.96	-196.58	-108.46	82.70	55.84	26.86	3.079	
4,400.00	4,381.86	4,402.93	4,389.77	12.77	15.62	157.88	-206.01	-112.98	84.66	57.09	27.57	3.071	
4,500.00	4,481.12	4,502.91	4,489.20	13.15	16.00	157.81	-215.44	-117.49	86.63	58.35	28.28	3.063	
4,600.00	4,580.37	4,602.89	4,588.63	13.52	16.38	157.74	-224.86	-122.00	88.60	59.60	29.00	3.055	
4,700.00	4,679.63	4,702.87	4,688.06	13.90	16.76	157.67	-234.29	-126.51	90.56	60.85	29.72	3.048	
4,800.00	4,778.88	4,802.85	4,787.50	14.28	17.14	157.60	-243.71	-131.03	92.53	62.09	30.44	3.040	
4,900.00	4,878.13	4,902.83	4,886.93	14.66	17.52	157.54	-253.14	-135.54	94.50	63.34	31.16	3.033	
5,000.00	4,977.39	5,002.81	4,986.36	15.04	17.90	157.48	-262.57	-140.05	96.46	64.59	31.88	3.026	
5,100.00	5,076.64	5,102.79	5,085.80	15.42	18.28	157.42	-271.99	-144.56	98.43	65.83	32.60	3.019	

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

Pro Directional

Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well 132H
Project:	Eddy County, NM	**TVD Reference:**	Rig @ 3269.00usft (GL:3,240' + KB:29')
Reference Site:	Leatherneck Fed	**MD Reference:**	Rig @ 3269.00usft (GL:3,240' + KB:29')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	132H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	WellPlanner1
Reference Design:	Prelim Plan A	**Offset TVD Reference:**	Offset Datum

Offset Design Leatherneck Fed - 202H - OH - Prelim Plan A — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+HDGM — **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)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,200.00	5,175.90	5,202.77	5,185.23	15.81	18.67	157.37	-281.42	-149.08	100.40	67.07	33.32	3.013	
5,300.00	5,275.15	5,302.76	5,284.66	16.19	19.05	157.32	-290.85	-153.59	102.37	68.32	34.05	3.007	
5,400.00	5,374.41	5,402.74	5,384.10	16.57	19.43	157.26	-300.27	-158.10	104.33	69.56	34.77	3.000	
5,500.00	5,473.66	5,502.72	5,483.53	16.96	19.81	157.22	-309.70	-162.61	106.30	70.80	35.50	2.994	
5,600.00	5,572.92	5,602.70	5,582.96	17.34	20.20	157.17	-319.13	-167.13	108.27	72.04	36.23	2.989	
5,700.00	5,672.17	5,702.68	5,682.39	17.73	20.58	157.12	-328.55	-171.64	110.24	73.28	36.95	2.983	
5,800.00	5,771.43	5,802.66	5,781.83	18.12	20.96	157.08	-337.98	-176.15	112.20	74.52	37.68	2.978	
5,900.00	5,870.68	5,902.64	5,881.26	18.50	21.35	157.04	-347.41	-180.66	114.17	75.76	38.41	2.972	
6,000.00	5,969.94	6,000.75	5,978.89	18.89	21.72	157.14	-356.09	-184.82	116.71	77.58	39.13	2.982	
6,100.00	6,069.34	6,098.00	6,075.88	19.27	22.08	157.54	-362.56	-187.92	120.22	80.39	39.83	3.018	
6,200.00	6,168.99	6,195.17	6,172.93	19.64	22.43	158.00	-366.81	-189.95	123.58	83.08	40.49	3.052	
6,300.00	6,268.83	6,292.26	6,270.00	20.00	22.78	158.50	-368.82	-190.91	126.79	85.66	41.13	3.082	
6,400.00	6,368.78	6,408.95	6,368.78	20.34	23.16	158.96	-369.00	-191.00	129.45	87.62	41.84	3.094	
6,500.00	6,468.77	6,508.96	6,468.77	20.64	23.48	0.00	-369.00	-191.00	130.00	87.51	42.49	3.060	
6,600.00	6,568.77	6,608.96	6,568.77	20.94	23.81	0.00	-369.00	-191.00	130.00	86.87	43.13	3.014	
6,700.00	6,668.77	6,708.96	6,668.77	21.23	24.13	0.00	-369.00	-191.00	130.00	86.22	43.78	2.969	
6,800.00	6,768.77	6,808.96	6,768.77	21.53	24.46	0.00	-369.00	-191.00	130.00	85.57	44.43	2.926	
6,900.00	6,868.77	6,908.96	6,868.77	21.83	24.79	0.00	-369.00	-191.00	130.00	84.92	45.08	2.884	
7,000.00	6,968.77	7,008.96	6,968.77	22.13	25.12	0.00	-369.00	-191.00	130.00	84.27	45.73	2.843	
7,100.00	7,068.77	7,108.96	7,068.77	22.43	25.45	0.00	-369.00	-191.00	130.00	83.61	46.39	2.802	
7,200.00	7,168.77	7,208.96	7,168.77	22.73	25.78	0.00	-369.00	-191.00	130.00	82.95	47.05	2.763	
7,300.00	7,268.77	7,308.96	7,268.77	23.04	26.11	0.00	-369.00	-191.00	130.00	82.30	47.70	2.725	
7,400.00	7,368.77	7,408.96	7,368.77	23.35	26.44	0.00	-369.00	-191.00	130.00	81.64	48.36	2.688	
7,500.00	7,468.77	7,508.96	7,468.77	23.65	26.77	0.00	-369.00	-191.00	130.00	80.97	49.03	2.652	
7,600.00	7,568.77	7,608.96	7,568.77	23.96	27.11	0.00	-369.00	-191.00	130.00	80.31	49.69	2.616	
7,700.00	7,668.77	7,708.96	7,668.77	24.28	27.44	0.00	-369.00	-191.00	130.00	79.65	50.35	2.582	
7,800.00	7,768.77	7,808.96	7,768.77	24.59	27.78	0.00	-369.00	-191.00	130.00	78.98	51.02	2.548	
7,900.00	7,868.77	7,908.96	7,868.77	24.90	28.11	0.00	-369.00	-191.00	130.00	78.31	51.69	2.515	
8,000.00	7,968.77	8,008.96	7,968.77	25.22	28.45	0.00	-369.00	-191.00	130.00	77.64	52.36	2.483	
8,100.00	8,068.77	8,108.96	8,068.77	25.53	28.78	0.00	-369.00	-191.00	130.00	76.97	53.03	2.452	
8,200.00	8,168.77	8,208.96	8,168.77	25.85	29.12	0.00	-369.00	-191.00	130.00	76.30	53.70	2.421	
8,300.00	8,268.77	8,308.96	8,268.77	26.17	29.46	0.00	-369.00	-191.00	130.00	75.63	54.37	2.391	
8,400.00	8,368.77	8,408.96	8,368.77	26.49	29.79	0.00	-369.00	-191.00	130.00	74.95	55.05	2.362	
8,500.00	8,468.77	8,508.96	8,468.77	26.65	30.13	0.00	-369.00	-191.00	130.00	74.44	55.56	2.340	
8,600.00	8,568.62	8,609.11	8,568.62	26.65	30.47	-80.72	-369.00	-191.00	129.30	73.37	55.93	2.312	
8,700.00	8,666.41	8,688.68	8,666.41	26.63	30.74	-89.70	-369.00	-191.00	127.59	71.21	56.38	2.263	
8,702.41	8,668.71	8,690.98	8,668.71	26.63	30.75	-90.00	-369.00	-191.00	127.59	71.19	56.40	2.262	
8,800.00	8,759.19	8,793.46	8,770.84	26.61	31.09	-104.31	-370.30	-184.19	129.05	72.04	57.01	2.264	
8,900.00	8,844.14	8,905.27	8,878.90	26.59	31.44	-119.93	-375.53	-156.71	132.37	75.87	56.50	2.343	
9,000.00	8,918.69	9,022.53	8,984.14	26.58	31.75	-136.46	-385.11	-106.36	138.15	84.48	53.67	2.574	
9,100.00	8,980.86	9,145.88	9,081.15	26.59	32.02	-153.78	-399.29	-31.90	148.00	99.58	48.42	3.056	
9,200.00	9,028.92	9,273.61	9,162.40	26.65	32.21	-167.14	-414.86	65.07	160.79	118.33	42.45	3.787	
9,300.00	9,061.42	9,409.62	9,223.47	26.93	32.77	-175.63	-426.65	185.67	172.65	135.76	36.89	4.680	
9,400.00	9,077.37	9,551.96	9,255.67	27.58	33.62	-179.61	-432.93	323.80	179.33	145.55	33.78	5.309	
9,500.00	9,079.00	9,671.15	9,259.00	28.42	34.48	180.00	-433.67	442.86	180.00	146.07	33.93	5.304	
9,600.00	9,079.00	9,771.15	9,259.00	29.42	35.34	180.00	-433.76	542.86	180.00	145.64	34.36	5.239	
9,700.00	9,079.00	9,871.15	9,259.00	30.56	36.32	180.00	-433.85	642.86	180.00	145.15	34.85	5.165	
9,800.00	9,079.00	9,971.15	9,259.00	31.84	37.41	180.00	-433.94	742.86	180.00	144.60	35.40	5.085	
9,900.00	9,079.00	10,071.15	9,259.00	33.22	38.61	180.00	-434.02	842.86	180.00	143.99	36.01	4.999	
10,000.00	9,079.00	10,171.15	9,259.00	34.70	39.90	180.00	-434.11	942.86	180.00	143.32	36.68	4.907	
10,100.00	9,079.00	10,271.15	9,259.00	36.27	41.28	180.00	-434.20	1,042.86	180.00	142.60	37.40	4.813	
10,200.00	9,079.00	10,371.15	9,259.00	37.91	42.75	180.00	-434.29	1,142.86	180.00	141.82	38.18	4.715	

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

Pro Directional

Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well 132H
Project:	Eddy County, NM	**TVD Reference:**	Rig @ 3269.00usft (GL:3,240' + KB:29')
Reference Site:	Leatherneck Fed	**MD Reference:**	Rig @ 3269.00usft (GL:3,240' + KB:29')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	132H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	WellPlanner1
Reference Design:	Prelim Plan A	**Offset TVD Reference:**	Offset Datum

Offset Design Leatherneck Fed - 202H - OH - Prelim Plan A — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+HDGM — **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)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,300.00	9,079.00	10,471.15	9,259.00	39.62	44.28	180.00	-434.37	1,242.86	180.00	141.00	39.00	4.616	
10,400.00	9,079.00	10,571.15	9,259.00	41.39	45.88	180.00	-434.46	1,342.86	180.00	140.14	39.86	4.515	
10,500.00	9,079.00	10,671.15	9,259.00	43.21	47.53	180.00	-434.55	1,442.86	180.00	139.23	40.77	4.415	
10,600.00	9,079.00	10,771.15	9,259.00	45.07	49.24	180.00	-434.63	1,542.86	180.00	138.28	41.72	4.314	
10,700.00	9,079.00	10,871.15	9,259.00	46.97	51.00	180.00	-434.72	1,642.86	180.00	137.29	42.71	4.215	
10,800.00	9,079.00	10,971.15	9,259.00	48.91	52.79	180.00	-434.81	1,742.86	180.00	136.28	43.72	4.117	
10,900.00	9,079.00	11,071.15	9,259.00	50.88	54.63	180.00	-434.90	1,842.86	180.00	135.23	44.77	4.020	
11,000.00	9,079.00	11,171.15	9,259.00	52.87	56.50	180.00	-434.98	1,942.86	180.00	134.15	45.85	3.925	
11,033.99	9,079.00	11,205.14	9,259.00	53.56	57.14	180.00	-435.01	1,976.85	180.00	133.77	46.23	3.894	
11,100.00	9,079.00	11,271.15	9,259.00	54.89	58.40	180.00	-435.07	2,042.86	180.00	133.04	46.96	3.833	
11,200.00	9,079.00	11,371.15	9,259.00	56.94	60.33	180.00	-435.16	2,142.86	180.00	131.90	48.10	3.742	
11,300.00	9,079.00	11,471.15	9,259.00	59.00	62.29	180.00	-435.25	2,242.86	180.00	130.75	49.25	3.655	
11,400.00	9,079.00	11,571.15	9,259.00	61.08	64.27	180.00	-435.33	2,342.86	180.00	129.57	50.43	3.569	
11,500.00	9,079.00	11,671.15	9,259.00	63.17	66.27	180.00	-435.42	2,442.86	180.00	128.37	51.63	3.486	
11,600.00	9,079.00	11,771.15	9,259.00	65.28	68.29	180.00	-435.51	2,542.86	180.00	127.15	52.85	3.406	
11,700.00	9,079.00	11,871.15	9,259.00	67.40	70.33	180.00	-435.59	2,642.86	180.00	125.91	54.09	3.328	
11,800.00	9,079.00	11,971.15	9,259.00	69.54	72.38	180.00	-435.68	2,742.86	180.00	124.65	55.35	3.252	
11,900.00	9,079.00	12,071.15	9,259.00	71.68	74.45	180.00	-435.77	2,842.86	180.00	123.38	56.62	3.179	
12,000.00	9,079.00	12,171.15	9,259.00	73.84	76.53	180.00	-435.86	2,942.86	180.00	122.10	57.90	3.109	
12,100.00	9,079.00	12,271.15	9,259.00	76.00	78.62	180.00	-435.94	3,042.86	180.00	120.80	59.20	3.040	
12,200.00	9,079.00	12,371.15	9,259.00	78.17	80.73	180.00	-436.03	3,142.86	180.00	119.49	60.51	2.975	
12,300.00	9,079.00	12,471.15	9,259.00	80.35	82.85	180.00	-436.12	3,242.86	180.00	118.16	61.84	2.911	
12,400.00	9,079.00	12,571.15	9,259.00	82.54	84.97	180.00	-436.21	3,342.86	180.00	116.83	63.17	2.849	
12,500.00	9,079.00	12,671.15	9,259.00	84.73	87.11	180.00	-436.29	3,442.86	180.00	115.48	64.52	2.790	
12,600.00	9,079.00	12,771.15	9,259.00	86.93	89.25	180.00	-436.38	3,542.86	180.00	114.13	65.87	2.733	
12,700.00	9,079.00	12,871.15	9,259.00	89.13	91.41	180.00	-436.47	3,642.86	180.00	112.76	67.24	2.677	
12,800.00	9,079.00	12,971.15	9,259.00	91.34	93.57	180.00	-436.55	3,742.86	180.00	111.39	68.61	2.623	
12,900.00	9,079.00	13,071.15	9,259.00	93.55	95.73	180.00	-436.64	3,842.86	180.00	110.01	69.99	2.572	
13,000.00	9,079.00	13,171.15	9,259.00	95.77	97.90	180.00	-436.73	3,942.86	180.00	108.62	71.38	2.522	
13,100.00	9,079.00	13,271.15	9,259.00	97.99	100.08	180.00	-436.82	4,042.86	180.00	107.22	72.78	2.473	
13,200.00	9,079.00	13,371.15	9,259.00	100.22	102.27	180.00	-436.90	4,142.86	180.00	105.82	74.18	2.426	
13,300.00	9,079.00	13,471.15	9,259.00	102.45	104.46	180.00	-436.99	4,242.86	180.00	104.41	75.59	2.381	
13,400.00	9,079.00	13,571.15	9,259.00	104.68	106.65	180.00	-437.08	4,342.86	180.00	102.99	77.01	2.337	
13,500.00	9,079.00	13,671.15	9,259.00	106.92	108.85	180.00	-437.17	4,442.86	180.00	101.57	78.43	2.295	
13,600.00	9,079.00	13,771.15	9,259.00	109.16	111.06	180.00	-437.25	4,542.86	180.00	100.14	79.86	2.254	
13,700.00	9,079.00	13,871.15	9,259.00	111.40	113.26	180.00	-437.34	4,642.86	180.00	98.71	81.29	2.214	
13,800.00	9,079.00	13,971.15	9,259.00	113.65	115.48	180.00	-437.43	4,742.86	180.00	97.27	82.73	2.176	
13,900.00	9,079.00	14,071.15	9,259.00	115.89	117.69	180.00	-437.51	4,842.86	180.00	95.83	84.17	2.138	
14,000.00	9,079.00	14,171.15	9,259.00	118.14	119.91	180.00	-437.60	4,942.86	180.00	94.38	85.62	2.102	
14,033.91	9,079.00	14,205.05	9,259.00	118.91	120.66	180.00	-437.63	4,976.77	180.00	93.89	86.11	2.090	
14,100.00	9,079.00	14,271.15	9,259.00	120.39	122.13	180.00	-437.69	5,042.86	180.00	92.93	87.07	2.067	
14,200.00	9,079.00	14,371.15	9,259.00	122.65	124.36	180.00	-437.78	5,142.86	180.00	91.47	88.53	2.033	
14,300.00	9,079.00	14,471.15	9,259.00	124.90	126.59	180.00	-437.86	5,242.86	180.00	90.01	89.99	2.000	
14,400.00	9,079.00	14,571.15	9,259.00	127.16	128.82	180.00	-437.95	5,342.86	180.00	88.55	91.45	1.968	
14,500.00	9,079.00	14,671.15	9,259.00	129.42	131.05	180.00	-438.04	5,442.86	180.00	87.08	92.92	1.937	
14,600.00	9,079.00	14,771.15	9,259.00	131.68	133.29	180.00	-438.13	5,542.86	180.00	85.61	94.39	1.907	
14,700.00	9,079.00	14,871.15	9,259.00	133.94	135.53	180.00	-438.21	5,642.86	180.00	84.14	95.86	1.878	
14,800.00	9,079.00	14,971.15	9,259.00	136.21	137.77	180.00	-438.30	5,742.86	180.00	82.66	97.34	1.849	
14,900.00	9,079.00	15,071.15	9,259.00	138.47	140.01	180.00	-438.39	5,842.86	180.00	81.19	98.81	1.822	
15,000.00	9,079.00	15,171.15	9,259.00	140.74	142.26	180.00	-438.47	5,942.86	180.00	79.70	100.30	1.795	
15,100.00	9,079.00	15,271.15	9,259.00	143.01	144.50	180.00	-438.56	6,042.86	180.00	78.22	101.78	1.769	
15,200.00	9,079.00	15,371.15	9,259.00	145.28	146.75	180.00	-438.65	6,142.86	180.00	76.73	103.27	1.743	

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

Pro Directional

Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well 132H
Project:	Eddy County, NM	**TVD Reference:**	Rig @ 3269.00usft (GL:3,240' + KB:29')
Reference Site:	Leatherneck Fed	**MD Reference:**	Rig @ 3269.00usft (GL:3,240' + KB:29')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	132H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	WellPlanner1
Reference Design:	Prelim Plan A	**Offset TVD Reference:**	Offset Datum

Offset Design Leatherneck Fed - 202H - OH - Prelim Plan A — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+HDGM — **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)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
15,300.00	9,079.00	15,471.15	9,259.00	147.55	149.00	180.00	-438.74	6,242.86	180.00	75.24	104.76	1.718	
15,400.00	9,079.00	15,571.15	9,259.00	149.82	151.25	180.00	-438.82	6,342.86	180.00	73.75	106.25	1.694	
15,500.00	9,079.00	15,671.15	9,259.00	152.09	153.51	180.00	-438.91	6,442.86	180.00	72.26	107.74	1.671	
15,600.00	9,079.00	15,771.15	9,259.00	154.36	155.76	180.00	-439.00	6,542.86	180.00	70.76	109.24	1.648	
15,700.00	9,079.00	15,871.15	9,259.00	156.64	158.02	180.00	-439.09	6,642.86	180.00	69.27	110.73	1.626	
15,800.00	9,079.00	15,971.15	9,259.00	158.92	160.28	180.00	-439.17	6,742.86	180.00	67.77	112.23	1.604	
15,900.00	9,079.00	16,071.15	9,259.00	161.19	162.54	180.00	-439.26	6,842.86	180.00	66.26	113.74	1.583	
16,000.00	9,079.00	16,171.15	9,259.00	163.47	164.80	180.00	-439.35	6,942.86	180.00	64.76	115.24	1.562	
16,100.00	9,079.00	16,271.15	9,259.00	165.75	167.06	180.00	-439.43	7,042.86	180.00	63.26	116.74	1.542	
16,200.00	9,079.00	16,371.15	9,259.00	168.03	169.33	180.00	-439.52	7,142.86	180.00	61.75	118.25	1.522	
16,300.00	9,079.00	16,471.15	9,259.00	170.31	171.59	180.00	-439.61	7,242.86	180.00	60.24	119.76	1.503	
16,400.00	9,079.00	16,571.15	9,259.00	172.59	173.86	180.00	-439.70	7,342.86	180.00	58.73	121.27	1.484	Level 3
16,500.00	9,079.00	16,671.15	9,259.00	174.87	176.12	180.00	-439.78	7,442.86	180.00	57.22	122.78	1.466	Level 3
16,600.00	9,079.00	16,771.15	9,259.00	177.15	178.39	180.00	-439.87	7,542.86	180.00	55.71	124.29	1.448	Level 3
16,700.00	9,079.00	16,871.15	9,259.00	179.43	180.66	180.00	-439.96	7,642.86	180.00	54.19	125.81	1.431	Level 3
16,800.00	9,079.00	16,971.15	9,259.00	181.71	182.93	180.00	-440.05	7,742.86	180.00	52.68	127.32	1.414	Level 3
16,900.00	9,079.00	17,071.15	9,259.00	184.00	185.20	180.00	-440.13	7,842.86	180.00	51.16	128.84	1.397	Level 3
17,000.00	9,079.00	17,171.15	9,259.00	186.28	187.47	180.00	-440.22	7,942.86	180.00	49.64	130.36	1.381	Level 3
17,033.91	9,079.00	17,205.05	9,259.00	187.06	188.24	180.00	-440.25	7,976.77	180.00	49.12	130.88	1.375	Level 3
17,100.00	9,079.00	17,271.15	9,259.00	188.57	189.75	180.00	-440.31	8,042.86	180.00	48.12	131.88	1.365	Level 3
17,200.00	9,079.00	17,371.15	9,259.00	190.85	192.02	180.00	-440.39	8,142.86	180.00	46.60	133.40	1.349	Level 3
17,300.00	9,079.00	17,471.15	9,259.00	193.14	194.29	180.00	-440.48	8,242.86	180.00	45.08	134.92	1.334	Level 3
17,400.00	9,079.00	17,571.15	9,259.00	195.43	196.57	180.00	-440.57	8,342.86	180.00	43.56	136.44	1.319	Level 3
17,500.00	9,079.00	17,671.15	9,259.00	197.71	198.84	180.00	-440.66	8,442.86	180.00	42.03	137.97	1.305	Level 3
17,600.00	9,079.00	17,771.15	9,259.00	200.00	201.12	180.00	-440.74	8,542.86	180.00	40.51	139.49	1.290	Level 3
17,700.00	9,079.00	17,871.15	9,259.00	202.29	203.40	180.00	-440.83	8,642.86	180.00	38.98	141.02	1.276	Level 3
17,800.00	9,079.00	17,971.15	9,259.00	204.58	205.68	180.00	-440.92	8,742.86	180.00	37.45	142.55	1.263	Level 3
17,900.00	9,079.00	18,071.15	9,259.00	206.86	207.95	180.00	-441.01	8,842.86	180.00	35.93	144.07	1.249	Level 2
18,000.00	9,079.00	18,171.15	9,259.00	209.15	210.23	180.00	-441.09	8,942.86	180.00	34.40	145.60	1.236	Level 2
18,100.00	9,079.00	18,271.15	9,259.00	211.44	212.51	180.00	-441.18	9,042.86	180.00	32.87	147.13	1.223	Level 2
18,200.00	9,079.00	18,371.15	9,259.00	213.73	214.79	180.00	-441.27	9,142.86	180.00	31.34	148.66	1.211	Level 2
18,300.00	9,079.00	18,471.15	9,259.00	216.02	217.07	180.00	-441.35	9,242.86	180.00	29.81	150.19	1.198	Level 2
18,400.00	9,079.00	18,571.15	9,259.00	218.31	219.36	180.00	-441.44	9,342.86	180.00	28.27	151.73	1.186	Level 2
18,500.00	9,079.00	18,671.15	9,259.00	220.60	221.64	180.00	-441.53	9,442.86	180.00	26.74	153.26	1.174	Level 2
18,600.00	9,079.00	18,771.15	9,259.00	222.90	223.92	180.00	-441.62	9,542.86	180.00	25.21	154.79	1.163	Level 2
18,700.00	9,079.00	18,871.15	9,259.00	225.19	226.20	180.00	-441.70	9,642.86	180.00	23.67	156.33	1.151	Level 2
18,800.00	9,079.00	18,971.15	9,259.00	227.48	228.49	180.00	-441.79	9,742.86	180.00	22.14	157.86	1.140	Level 2
18,900.00	9,079.00	19,071.15	9,259.00	229.77	230.77	180.00	-441.88	9,842.86	180.00	20.60	159.40	1.129	Level 2
19,000.00	9,079.00	19,171.15	9,259.00	232.06	233.05	180.00	-441.96	9,942.86	180.00	19.07	160.93	1.118	Level 2
19,040.14	9,079.00	19,211.29	9,259.00	232.98	233.97	180.00	-442.00	9,983.00	180.00	18.45	161.55	1.114	Level 2, ES, SF

Pro Directional

Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well 132H
Project:	Eddy County, NM	**TVD Reference:**	Rig @ 3269.00usft (GL:3,240' + KB:29')
Reference Site:	Leatherneck Fed	**MD Reference:**	Rig @ 3269.00usft (GL:3,240' + KB:29')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	132H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	WellPlanner1
Reference Design:	Prelim Plan A	**Offset TVD Reference:**	Offset Datum

Offset Design Leatherneck Fed - 221H - OH - Prelim Plan A — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+HDGM, 1200-MWD+HDGM, 8800-MWD+HDGM — **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)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	2.00	-2.00	0.00	0.00	1.28	850.00	19.00	850.21				
100.00	100.00	102.00	98.00	0.13	0.13	1.28	850.00	19.00	850.21	849.95	0.26	3,248.997	
200.00	200.00	202.00	198.00	0.49	0.49	1.28	850.00	19.00	850.21	849.23	0.98	868.780	
300.00	300.00	302.00	298.00	0.84	0.85	1.28	850.00	19.00	850.21	848.52	1.70	501.431	
400.00	400.00	402.00	398.00	1.20	1.21	1.28	850.00	19.00	850.21	847.80	2.41	352.418	
500.00	500.00	502.00	498.00	1.56	1.57	1.28	850.00	19.00	850.21	847.08	3.13	271.680	
600.00	600.00	602.00	598.00	1.92	1.93	1.28	850.00	19.00	850.21	846.37	3.85	221.041	
700.00	700.00	702.00	698.00	2.28	2.29	1.28	850.00	19.00	850.21	845.65	4.56	186.313	
800.00	800.00	802.00	798.00	2.64	2.64	1.28	850.00	19.00	850.21	844.93	5.28	161.016	
900.00	900.00	902.00	898.00	3.00	3.00	1.28	850.00	19.00	850.21	844.22	6.00	141.768	
1,000.00	1,000.00	1,002.00	998.00	3.35	3.36	1.28	850.00	19.00	850.21	843.50	6.71	126.630	
1,100.00	1,100.00	1,102.00	1,098.00	3.71	3.72	1.28	850.00	19.00	850.21	842.78	7.43	114.412	
1,200.00	1,200.00	1,202.00	1,198.00	4.07	4.07	1.28	850.00	19.00	850.21	842.07	8.14	104.390	
1,300.00	1,300.00	1,302.00	1,298.00	4.25	4.25	1.28	850.00	19.00	850.21	841.70	8.51	99.937	
1,400.00	1,400.00	1,398.00	1,398.00	4.28	4.28	1.28	850.00	19.00	850.21	841.65	8.57	99.248	
1,500.00	1,500.00	1,508.61	1,508.60	4.34	4.35	1.23	849.34	18.21	849.60	840.91	8.69	97.761	
1,600.00	1,599.99	1,619.38	1,619.33	4.43	4.45	160.15	847.30	15.78	848.54	839.67	8.87	95.663	
1,700.00	1,699.96	1,730.09	1,729.91	4.53	4.58	159.95	843.90	11.71	847.86	838.75	9.10	93.130	
1,800.00	1,799.86	1,840.71	1,840.27	4.67	4.74	159.68	839.12	6.01	847.56	838.17	9.39	90.229	
1,823.88	1,823.71	1,867.11	1,866.59	4.70	4.78	159.60	837.78	4.41	847.55	838.08	9.47	89.478 CC	
1,900.00	1,899.68	1,946.32	1,945.51	4.82	4.92	159.37	833.41	-0.81	847.80	838.08	9.73	87.153 ES	
2,000.00	1,999.37	2,046.22	2,045.03	5.00	5.12	159.10	827.82	-7.48	849.52	839.42	10.10	84.119	
2,100.00	2,098.90	2,146.11	2,144.54	5.21	5.34	158.87	822.23	-14.16	852.88	842.37	10.51	81.153	
2,200.00	2,198.26	2,245.95	2,244.00	5.43	5.57	158.68	816.64	-20.83	857.87	846.92	10.96	78.309	
2,300.00	2,297.51	2,345.76	2,343.43	5.68	5.82	158.53	811.05	-27.50	863.69	852.26	11.43	75.552	
2,400.00	2,396.77	2,445.56	2,442.85	5.94	6.08	158.38	805.47	-34.17	869.51	857.57	11.94	72.851	
2,500.00	2,496.02	2,545.37	2,542.28	6.22	6.36	158.23	799.88	-40.84	875.34	862.87	12.46	70.233	
2,600.00	2,595.28	2,645.17	2,641.70	6.51	6.64	158.09	794.30	-47.50	881.17	868.15	13.01	67.716	
2,700.00	2,694.53	2,744.98	2,741.13	6.81	6.94	157.94	788.71	-54.17	887.01	873.42	13.58	65.314	
2,800.00	2,793.79	2,844.78	2,840.55	7.12	7.24	157.80	783.13	-60.84	892.85	878.68	14.17	63.032	
2,900.00	2,893.04	2,944.59	2,939.98	7.44	7.55	157.66	777.54	-67.51	898.70	883.93	14.76	60.870	
3,000.00	2,992.30	3,044.39	3,039.40	7.77	7.86	157.52	771.96	-74.18	904.55	889.17	15.38	58.828	
3,100.00	3,091.55	3,144.20	3,138.83	8.10	8.18	157.39	766.37	-80.85	910.41	894.41	16.00	56.902	
3,200.00	3,190.81	3,244.00	3,238.25	8.44	8.51	157.25	760.79	-87.52	916.27	899.64	16.63	55.087	
3,300.00	3,290.06	3,343.81	3,337.68	8.78	8.84	157.12	755.20	-94.18	922.14	904.87	17.28	53.377	
3,400.00	3,389.32	3,443.61	3,437.11	9.13	9.17	156.99	749.62	-100.85	928.02	910.09	17.93	51.767	
3,500.00	3,488.57	3,543.42	3,536.53	9.48	9.51	156.86	744.03	-107.52	933.90	915.31	18.58	50.250	
3,600.00	3,587.82	3,643.22	3,635.96	9.84	9.85	156.73	738.45	-114.19	939.78	920.53	19.25	48.821	
3,700.00	3,687.08	3,743.03	3,735.38	10.19	10.19	156.60	732.86	-120.86	945.67	925.75	19.92	47.473	
3,800.00	3,786.33	3,842.83	3,834.81	10.56	10.54	156.48	727.27	-127.53	951.56	930.96	20.60	46.201	
3,900.00	3,885.59	3,942.64	3,934.23	10.92	10.88	156.36	721.69	-134.19	957.46	936.18	21.28	45.000	
4,000.00	3,984.84	4,042.44	4,033.66	11.29	11.23	156.23	716.10	-140.86	963.36	941.40	21.96	43.865	
4,100.00	4,084.10	4,142.25	4,133.08	11.65	11.59	156.11	710.52	-147.53	969.26	946.61	22.65	42.791	
4,200.00	4,183.35	4,242.05	4,232.51	12.03	11.94	156.00	704.93	-154.20	975.17	951.83	23.34	41.774	
4,300.00	4,282.61	4,341.86	4,331.93	12.40	12.29	155.88	699.35	-160.87	981.09	957.05	24.04	40.810	
4,400.00	4,381.86	4,440.30	4,430.00	12.77	12.64	155.76	693.85	-167.44	987.01	962.28	24.73	39.905	
4,500.00	4,481.12	4,526.67	4,516.14	13.15	12.95	155.72	689.77	-172.31	993.75	968.37	25.38	39.156	
4,600.00	4,580.37	4,612.87	4,602.22	13.52	13.25	155.77	686.94	-175.68	1,001.83	975.81	26.02	38.508	
4,700.00	4,679.63	4,698.81	4,688.12	13.90	13.54	155.90	685.37	-177.56	1,011.26	984.61	26.64	37.956	
4,800.00	4,778.88	4,787.57	4,776.88	14.28	13.81	156.12	685.00	-178.00	1,022.01	994.75	27.26	37.491	
4,900.00	4,878.13	4,886.82	4,876.13	14.66	14.12	156.40	685.00	-178.00	1,033.18	1,005.26	27.91	37.013	
5,000.00	4,977.39	4,986.08	4,975.39	15.04	14.42	156.66	685.00	-178.00	1,044.37	1,015.80	28.57	36.553	

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

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well 132H
Project:	Eddy County, NM	**TVD Reference:**	Rig @ 3269.00usft (GL:3,240' + KB:29')
Reference Site:	Leatherneck Fed	**MD Reference:**	Rig @ 3269.00usft (GL:3,240' + KB:29')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	132H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	WellPlanner1
Reference Design:	Prelim Plan A	**Offset TVD Reference:**	Offset Datum

Offset Design Leatherneck Fed - 221H - OH - Prelim Plan A — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+HDGM, 1200-MWD+HDGM, 8800-MWD+HDGM — **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)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	5,076.64	5,085.33	5,074.64	15.42	14.72	156.92	685.00	-178.00	1,055.58	1,026.35	29.23	36.111	
5,200.00	5,175.90	5,184.59	5,173.90	15.81	15.03	157.18	685.00	-178.00	1,066.82	1,036.92	29.89	35.686	
5,300.00	5,275.15	5,283.84	5,273.15	16.19	15.34	157.43	685.00	-178.00	1,078.07	1,047.51	30.56	35.277	
5,400.00	5,374.41	5,383.10	5,372.41	16.57	15.66	157.68	685.00	-178.00	1,089.35	1,058.12	31.23	34.883	
5,500.00	5,473.66	5,482.35	5,471.66	16.96	15.97	157.92	685.00	-178.00	1,100.64	1,068.74	31.90	34.504	
5,600.00	5,572.92	5,581.61	5,570.92	17.34	16.29	158.15	685.00	-178.00	1,111.96	1,079.39	32.57	34.139	
5,700.00	5,672.17	5,680.86	5,670.17	17.73	16.60	158.39	685.00	-178.00	1,123.29	1,090.04	33.25	33.787	
5,800.00	5,771.43	5,780.12	5,769.43	18.12	16.92	158.61	685.00	-178.00	1,134.64	1,100.72	33.92	33.447	
5,900.00	5,870.68	5,879.37	5,868.68	18.50	17.24	158.83	685.00	-178.00	1,146.01	1,111.41	34.60	33.120	
6,000.00	5,969.94	5,978.63	5,967.94	18.89	17.56	159.05	685.00	-178.00	1,157.39	1,122.11	35.28	32.804	
6,100.00	6,069.34	6,078.03	6,067.34	19.27	17.89	159.30	685.00	-178.00	1,167.58	1,131.62	35.96	32.466	
6,200.00	6,168.99	6,177.68	6,166.99	19.64	18.21	159.48	685.00	-178.00	1,175.34	1,138.70	36.64	32.076	
6,300.00	6,268.83	6,277.52	6,266.83	20.00	18.54	159.60	685.00	-178.00	1,180.66	1,143.34	37.32	31.637	
6,400.00	6,368.78	6,377.47	6,366.78	20.34	18.87	159.67	685.00	-178.00	1,183.52	1,145.53	37.99	31.150	
6,500.00	6,468.77	6,477.46	6,466.77	20.64	19.20	0.63	685.00	-178.00	1,184.07	1,145.42	38.65	30.639	
6,600.00	6,568.77	6,577.46	6,566.77	20.94	19.53	0.63	685.00	-178.00	1,184.07	1,144.78	39.29	30.136	
6,700.00	6,668.77	6,677.46	6,666.77	21.23	19.86	0.63	685.00	-178.00	1,184.07	1,144.13	39.94	29.649	
6,800.00	6,768.77	6,777.46	6,766.77	21.53	20.20	0.63	685.00	-178.00	1,184.07	1,143.49	40.59	29.175	
6,900.00	6,868.77	6,877.46	6,866.77	21.83	20.53	0.63	685.00	-178.00	1,184.07	1,142.83	41.24	28.714	
7,000.00	6,968.77	6,977.46	6,966.77	22.13	20.86	0.63	685.00	-178.00	1,184.07	1,142.18	41.89	28.266	
7,100.00	7,068.77	7,077.46	7,066.77	22.43	21.20	0.63	685.00	-178.00	1,184.07	1,141.53	42.54	27.831	
7,200.00	7,168.77	7,177.46	7,166.77	22.73	21.54	0.63	685.00	-178.00	1,184.07	1,140.87	43.20	27.408	
7,300.00	7,268.77	7,277.46	7,266.77	23.04	21.87	0.63	685.00	-178.00	1,184.07	1,140.21	43.86	26.996	
7,400.00	7,368.77	7,377.46	7,366.77	23.35	22.21	0.63	685.00	-178.00	1,184.07	1,139.55	44.52	26.595	
7,500.00	7,468.77	7,477.46	7,466.77	23.65	22.55	0.63	685.00	-178.00	1,184.07	1,138.89	45.18	26.205	
7,600.00	7,568.77	7,577.46	7,566.77	23.96	22.89	0.63	685.00	-178.00	1,184.07	1,138.22	45.85	25.826	
7,700.00	7,668.77	7,677.46	7,666.77	24.28	23.23	0.63	685.00	-178.00	1,184.07	1,137.56	46.51	25.456	
7,800.00	7,768.77	7,777.46	7,766.77	24.59	23.57	0.63	685.00	-178.00	1,184.07	1,136.89	47.18	25.096	
7,900.00	7,868.77	7,877.46	7,866.77	24.90	23.91	0.63	685.00	-178.00	1,184.07	1,136.22	47.85	24.746	
8,000.00	7,968.77	7,977.46	7,966.77	25.22	24.25	0.63	685.00	-178.00	1,184.07	1,135.55	48.52	24.404	
8,100.00	8,068.77	8,077.46	8,066.77	25.53	24.59	0.63	685.00	-178.00	1,184.07	1,134.88	49.19	24.071	
8,200.00	8,168.77	8,177.46	8,166.77	25.85	24.93	0.63	685.00	-178.00	1,184.07	1,134.21	49.86	23.746	
8,300.00	8,268.77	8,277.46	8,266.77	26.17	25.27	0.63	685.00	-178.00	1,184.07	1,133.53	50.54	23.430	
8,400.00	8,368.77	8,377.46	8,366.77	26.49	25.62	0.63	685.00	-178.00	1,184.07	1,132.86	51.21	23.121	
8,500.00	8,468.77	8,477.46	8,466.77	26.65	25.96	0.63	685.00	-178.00	1,184.07	1,132.35	51.72	22.892	
8,600.00	8,568.62	8,577.31	8,566.62	26.65	26.30	-78.58	685.00	-178.00	1,183.28	1,131.21	52.07	22.724	
8,700.00	8,666.41	8,675.10	8,664.41	26.63	26.64	-79.90	685.00	-178.00	1,179.40	1,126.99	52.41	22.502	
8,800.00	8,759.19	8,767.88	8,757.19	26.61	26.84	-82.16	685.00	-178.00	1,173.20	1,120.58	52.63	22.293	
8,900.00	8,844.14	8,852.83	8,842.14	26.59	26.90	-85.02	685.00	-178.00	1,166.36	1,113.65	52.71	22.127	
9,000.00	8,918.69	8,926.82	8,906.13	26.58	26.90	-87.95	685.08	-177.87	1,161.21	1,108.44	52.77	22.005	
9,023.76	8,934.65	8,926.01	8,915.32	26.58	26.90	-88.87	685.23	-177.63	1,160.92	1,108.13	52.79	21.991	
9,100.00	8,980.86	8,950.00	8,939.26	26.59	26.91	-90.86	685.98	-176.41	1,164.02	1,111.15	52.87	22.019	
9,200.00	9,028.92	8,989.99	8,978.97	26.65	26.90	-92.34	688.39	-172.47	1,177.62	1,124.50	53.12	22.170	
9,300.00	9,061.42	9,021.37	9,009.86	26.93	26.90	-91.95	691.29	-167.73	1,202.14	1,148.62	53.52	22.463	
9,400.00	9,077.37	9,047.12	9,034.93	27.58	26.90	-89.81	694.33	-162.77	1,237.03	1,183.00	54.04	22.893	
9,500.00	9,079.00	9,067.02	9,054.12	28.42	26.89	-88.84	697.08	-158.29	1,280.82	1,226.21	54.61	23.453	
9,600.00	9,079.00	9,090.98	9,076.98	29.42	26.89	-90.00	700.85	-152.13	1,330.55	1,275.34	55.21	24.101	
9,700.00	9,079.00	10,104.27	9,500.00	30.56	31.12	-107.85	879.63	643.09	1,379.91	1,319.83	60.08	22.967	
9,800.00	9,079.00	10,204.27	9,500.00	31.84	32.32	-107.85	879.61	743.09	1,379.98	1,317.58	62.40	22.116	
9,900.00	9,079.00	10,304.27	9,500.00	33.22	33.63	-107.85	879.59	843.09	1,380.04	1,315.11	64.93	21.254	
10,000.00	9,079.00	10,404.27	9,500.00	34.70	35.05	-107.85	879.58	943.09	1,380.11	1,312.45	67.66	20.399	
10,100.00	9,079.00	10,504.27	9,500.00	36.27	36.56	-107.85	879.56	1,043.09	1,380.18	1,309.62	70.55	19.562	

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

Pro Directional

Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well 132H
Project:	Eddy County, NM	**TVD Reference:**	Rig @ 3269.00usft (GL:3,240' + KB:29')
Reference Site:	Leatherneck Fed	**MD Reference:**	Rig @ 3269.00usft (GL:3,240' + KB:29')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	132H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	WellPlanner1
Reference Design:	Prelim Plan A	**Offset TVD Reference:**	Offset Datum

Offset Design Leatherneck Fed - 221H - OH - Prelim Plan A — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+HDGM, 1200-MWD+HDGM, 8800-MWD+HDGM — **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)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,200.00	9,079.00	10,604.27	9,500.00	37.91	38.14	-107.85	879.54	1,143.09	1,380.24	1,306.64	73.60	18.752	
10,300.00	9,079.00	10,704.27	9,500.00	39.62	39.80	-107.85	879.52	1,243.09	1,380.31	1,303.53	76.79	17.976	
10,400.00	9,079.00	10,804.27	9,500.00	41.39	41.52	-107.84	879.51	1,343.09	1,380.38	1,300.29	80.08	17.237	
10,500.00	9,079.00	10,904.27	9,500.00	43.21	43.30	-107.84	879.49	1,443.09	1,380.44	1,296.96	83.49	16.535	
10,600.00	9,079.00	11,004.27	9,500.00	45.07	45.12	-107.84	879.47	1,543.09	1,380.51	1,293.53	86.98	15.872	
10,700.00	9,079.00	11,104.27	9,500.00	46.97	46.99	-107.84	879.46	1,643.09	1,380.58	1,290.02	90.55	15.246	
10,800.00	9,079.00	11,204.27	9,500.00	48.91	48.89	-107.84	879.44	1,743.09	1,380.64	1,286.44	94.20	14.657	
10,900.00	9,079.00	11,304.27	9,500.00	50.88	50.83	-107.84	879.42	1,843.09	1,380.71	1,282.80	97.91	14.102	
11,000.00	9,079.00	11,404.27	9,500.00	52.87	52.80	-107.84	879.40	1,943.09	1,380.78	1,279.10	101.67	13.580	
11,100.00	9,079.00	11,504.27	9,500.00	54.89	54.79	-107.84	879.39	2,043.09	1,380.84	1,275.35	105.49	13.090	
11,200.00	9,079.00	11,604.27	9,500.00	56.94	56.81	-107.84	879.37	2,143.09	1,380.91	1,271.56	109.35	12.628	
11,300.00	9,079.00	11,704.27	9,500.00	59.00	58.85	-107.84	879.35	2,243.09	1,380.97	1,267.72	113.25	12.194	
11,400.00	9,079.00	11,804.27	9,500.00	61.08	60.90	-107.84	879.33	2,343.09	1,381.04	1,263.85	117.19	11.785	
11,500.00	9,079.00	11,904.27	9,500.00	63.17	62.98	-107.83	879.32	2,443.09	1,381.11	1,259.95	121.16	11.399	
11,600.00	9,079.00	12,004.27	9,500.00	65.28	65.07	-107.83	879.30	2,543.09	1,381.17	1,256.01	125.16	11.035	
11,700.00	9,079.00	12,104.27	9,500.00	67.40	67.17	-107.83	879.28	2,643.09	1,381.24	1,252.05	129.19	10.691	
11,800.00	9,079.00	12,204.27	9,500.00	69.54	69.29	-107.83	879.26	2,743.09	1,381.31	1,248.06	133.24	10.367	
11,900.00	9,079.00	12,304.27	9,500.00	71.68	71.42	-107.83	879.25	2,843.09	1,381.37	1,244.05	137.32	10.060	
12,000.00	9,079.00	12,404.27	9,500.00	73.84	73.56	-107.83	879.23	2,943.09	1,381.44	1,240.02	141.42	9.769	
12,100.00	9,079.00	12,504.27	9,500.00	76.00	75.71	-107.83	879.21	3,043.09	1,381.51	1,235.98	145.53	9.493	
12,200.00	9,079.00	12,604.27	9,500.00	78.17	77.87	-107.83	879.19	3,143.09	1,381.57	1,231.91	149.66	9.231	
12,300.00	9,079.00	12,704.27	9,500.00	80.35	80.04	-107.83	879.18	3,243.09	1,381.64	1,227.83	153.81	8.983	
12,400.00	9,079.00	12,804.27	9,500.00	82.54	82.21	-107.83	879.16	3,343.09	1,381.71	1,223.73	157.97	8.746	
12,500.00	9,079.00	12,904.27	9,500.00	84.73	84.40	-107.83	879.14	3,443.09	1,381.77	1,219.62	162.15	8.522	
12,600.00	9,079.00	13,004.27	9,500.00	86.93	86.58	-107.83	879.12	3,543.09	1,381.84	1,215.50	166.34	8.307	
12,700.00	9,079.00	13,104.27	9,500.00	89.13	88.78	-107.82	879.11	3,643.09	1,381.91	1,211.37	170.54	8.103	
12,800.00	9,079.00	13,204.27	9,500.00	91.34	90.98	-107.82	879.09	3,743.09	1,381.97	1,207.22	174.75	7.908	
12,900.00	9,079.00	13,304.27	9,500.00	93.55	93.18	-107.82	879.07	3,843.09	1,382.04	1,203.07	178.97	7.722	
13,000.00	9,079.00	13,404.27	9,500.00	95.77	95.39	-107.82	879.05	3,943.09	1,382.10	1,198.91	183.20	7.544	
13,100.00	9,079.00	13,504.27	9,500.00	97.99	97.61	-107.82	879.04	4,043.09	1,382.17	1,194.73	187.44	7.374	
13,200.00	9,079.00	13,604.27	9,500.00	100.22	99.83	-107.82	879.02	4,143.09	1,382.24	1,190.55	191.68	7.211	
13,300.00	9,079.00	13,704.27	9,500.00	102.45	102.05	-107.82	879.00	4,243.09	1,382.30	1,186.37	195.94	7.055	
13,400.00	9,079.00	13,804.27	9,500.00	104.68	104.28	-107.82	878.98	4,343.09	1,382.37	1,182.17	200.20	6.905	
13,500.00	9,079.00	13,904.27	9,500.00	106.92	106.51	-107.82	878.97	4,443.09	1,382.44	1,177.97	204.47	6.761	
13,600.00	9,079.00	14,004.27	9,500.00	109.16	108.74	-107.82	878.95	4,543.09	1,382.50	1,173.76	208.74	6.623	
13,700.00	9,079.00	14,104.27	9,500.00	111.40	110.97	-107.82	878.93	4,643.09	1,382.57	1,169.55	213.02	6.490	
13,800.00	9,079.00	14,204.27	9,500.00	113.65	113.21	-107.81	878.91	4,743.09	1,382.64	1,165.33	217.31	6.363	
13,900.00	9,079.00	14,304.27	9,500.00	115.89	115.45	-107.81	878.90	4,843.09	1,382.70	1,161.11	221.60	6.240	
14,000.00	9,079.00	14,404.27	9,500.00	118.14	117.70	-107.81	878.88	4,943.09	1,382.77	1,156.88	225.89	6.121	
14,100.00	9,079.00	14,504.27	9,500.00	120.39	119.94	-107.81	878.86	5,043.09	1,382.84	1,152.64	230.19	6.007	
14,200.00	9,079.00	14,604.27	9,500.00	122.65	122.19	-107.81	878.84	5,143.09	1,382.90	1,148.40	234.50	5.897	
14,300.00	9,079.00	14,704.27	9,500.00	124.90	124.44	-107.81	878.83	5,243.09	1,382.97	1,144.16	238.81	5.791	
14,400.00	9,079.00	14,804.27	9,500.00	127.16	126.70	-107.81	878.81	5,343.09	1,383.04	1,139.92	243.12	5.689	
14,500.00	9,079.00	14,904.27	9,500.00	129.42	128.95	-107.81	878.79	5,443.09	1,383.10	1,135.67	247.44	5.590	
14,600.00	9,079.00	15,004.27	9,500.00	131.68	131.21	-107.81	878.77	5,543.09	1,383.17	1,131.41	251.76	5.494	
14,700.00	9,079.00	15,104.27	9,500.00	133.94	133.47	-107.81	878.76	5,643.09	1,383.23	1,127.16	256.08	5.402	
14,800.00	9,079.00	15,204.27	9,500.00	136.21	135.73	-107.81	878.74	5,743.09	1,383.30	1,122.90	260.41	5.312	
14,900.00	9,079.00	15,304.27	9,500.00	138.47	137.99	-107.80	878.72	5,843.09	1,383.37	1,118.63	264.73	5.225	
15,000.00	9,079.00	15,404.27	9,500.00	140.74	140.25	-107.80	878.70	5,943.09	1,383.43	1,114.37	269.07	5.142	
15,100.00	9,079.00	15,504.27	9,500.00	143.01	142.52	-107.80	878.69	6,043.09	1,383.50	1,110.10	273.40	5.060	
15,200.00	9,079.00	15,604.27	9,500.00	145.28	144.78	-107.80	878.67	6,143.09	1,383.57	1,105.83	277.74	4.982	
15,300.00	9,079.00	15,704.27	9,500.00	147.55	147.05	-107.80	878.65	6,243.09	1,383.63	1,101.55	282.08	4.905	

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

Pro Directional

Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well 132H
Project:	Eddy County, NM	**TVD Reference:**	Rig @ 3269.00usft (GL:3,240' + KB:29')
Reference Site:	Leatherneck Fed	**MD Reference:**	Rig @ 3269.00usft (GL:3,240' + KB:29')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	132H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	WellPlanner1
Reference Design:	Prelim Plan A	**Offset TVD Reference:**	Offset Datum

Offset Design Leatherneck Fed - 221H - OH - Prelim Plan A — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+HDGM, 1200-MWD+HDGM, 8800-MWD+HDGM — **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)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
15,400.00	9,079.00	15,804.27	9,500.00	149.82	149.32	-107.80	878.63	6,343.09	1,383.70	1,097.28	286.42	4.831	
15,500.00	9,079.00	15,904.27	9,500.00	152.09	151.59	-107.80	878.62	6,443.09	1,383.77	1,093.00	290.77	4.759	
15,600.00	9,079.00	16,004.27	9,500.00	154.36	153.86	-107.80	878.60	6,543.09	1,383.83	1,088.72	295.12	4.689	
15,700.00	9,079.00	16,104.27	9,500.00	156.64	156.13	-107.80	878.58	6,643.09	1,383.90	1,084.43	299.47	4.621	
15,800.00	9,079.00	16,204.27	9,500.00	158.92	158.40	-107.80	878.56	6,743.09	1,383.97	1,080.15	303.82	4.555	
15,900.00	9,079.00	16,304.27	9,500.00	161.19	160.68	-107.80	878.55	6,843.09	1,384.03	1,075.86	308.17	4.491	
16,000.00	9,079.00	16,404.27	9,500.00	163.47	162.95	-107.80	878.53	6,943.09	1,384.10	1,071.57	312.53	4.429	
16,100.00	9,079.00	16,504.27	9,500.00	165.75	165.23	-107.79	878.51	7,043.09	1,384.17	1,067.28	316.88	4.368	
16,200.00	9,079.00	16,604.27	9,500.00	168.03	167.50	-107.79	878.50	7,143.09	1,384.23	1,062.99	321.24	4.309	
16,300.00	9,079.00	16,704.27	9,500.00	170.31	169.78	-107.79	878.48	7,243.09	1,384.30	1,058.70	325.60	4.252	
16,400.00	9,079.00	16,804.27	9,500.00	172.59	172.06	-107.79	878.46	7,343.09	1,384.36	1,054.40	329.96	4.196	
16,500.00	9,079.00	16,904.27	9,500.00	174.87	174.34	-107.79	878.44	7,443.09	1,384.43	1,050.10	334.33	4.141	
16,600.00	9,079.00	17,004.27	9,500.00	177.15	176.62	-107.79	878.43	7,543.09	1,384.50	1,045.81	338.69	4.088	
16,700.00	9,079.00	17,104.27	9,500.00	179.43	178.90	-107.79	878.41	7,643.09	1,384.56	1,041.51	343.06	4.036	
16,800.00	9,079.00	17,204.27	9,500.00	181.71	181.18	-107.79	878.39	7,743.09	1,384.63	1,037.20	347.43	3.985	
16,900.00	9,079.00	17,304.27	9,500.00	184.00	183.46	-107.79	878.37	7,843.09	1,384.70	1,032.90	351.79	3.936	
17,000.00	9,079.00	17,404.27	9,500.00	186.28	185.74	-107.79	878.36	7,943.09	1,384.76	1,028.60	356.16	3.888	
17,100.00	9,079.00	17,504.27	9,500.00	188.57	188.02	-107.79	878.34	8,043.09	1,384.83	1,024.29	360.54	3.841	
17,200.00	9,079.00	17,604.27	9,500.00	190.85	190.31	-107.78	878.32	8,143.09	1,384.90	1,019.99	364.91	3.795	
17,300.00	9,079.00	17,704.27	9,500.00	193.14	192.59	-107.78	878.30	8,243.09	1,384.96	1,015.68	369.28	3.750	
17,400.00	9,079.00	17,804.27	9,500.00	195.43	194.87	-107.78	878.29	8,343.09	1,385.03	1,011.37	373.66	3.707	
17,500.00	9,079.00	17,904.27	9,500.00	197.71	197.16	-107.78	878.27	8,443.09	1,385.10	1,007.06	378.03	3.664	
17,600.00	9,079.00	18,004.27	9,500.00	200.00	199.45	-107.78	878.25	8,543.09	1,385.16	1,002.75	382.41	3.622	
17,700.00	9,079.00	18,104.27	9,500.00	202.29	201.73	-107.78	878.23	8,643.09	1,385.23	998.44	386.79	3.581	
17,800.00	9,079.00	18,204.27	9,500.00	204.58	204.02	-107.78	878.22	8,743.09	1,385.30	994.13	391.17	3.541	
17,900.00	9,079.00	18,304.27	9,500.00	206.86	206.30	-107.78	878.20	8,843.09	1,385.36	989.82	395.55	3.502	
18,000.00	9,079.00	18,404.27	9,500.00	209.15	208.59	-107.78	878.18	8,943.09	1,385.43	985.50	399.93	3.464	
18,100.00	9,079.00	18,504.27	9,500.00	211.44	210.88	-107.78	878.16	9,043.09	1,385.49	981.19	404.31	3.427	
18,200.00	9,079.00	18,604.27	9,500.00	213.73	213.17	-107.78	878.15	9,143.09	1,385.56	976.87	408.69	3.390	
18,300.00	9,079.00	18,704.27	9,500.00	216.02	215.46	-107.77	878.13	9,243.09	1,385.63	972.55	413.07	3.354	
18,400.00	9,079.00	18,804.27	9,500.00	218.31	217.75	-107.77	878.11	9,343.09	1,385.69	968.24	417.46	3.319	
18,500.00	9,079.00	18,904.27	9,500.00	220.60	220.04	-107.77	878.09	9,443.09	1,385.76	963.92	421.84	3.285	
18,600.00	9,079.00	19,004.27	9,500.00	222.90	222.32	-107.77	878.08	9,543.09	1,385.83	959.60	426.23	3.251	
18,700.00	9,079.00	19,104.27	9,500.00	225.19	224.61	-107.77	878.06	9,643.09	1,385.89	955.28	430.61	3.218	
18,800.00	9,079.00	19,204.27	9,500.00	227.48	226.91	-107.77	878.04	9,743.09	1,385.96	950.96	435.00	3.186	
18,900.00	9,079.00	19,304.27	9,500.00	229.77	229.20	-107.77	878.02	9,843.09	1,386.03	946.64	439.39	3.154	
19,000.00	9,079.00	19,404.27	9,500.00	232.06	231.49	-107.77	878.01	9,943.09	1,386.09	942.32	443.78	3.123	
19,040.14	9,079.00	19,444.41	9,500.00	232.98	232.41	-107.77	878.00	9,983.23	1,386.12	940.58	445.54	3.111 SF	

Pro Directional

Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well 132H
Project:	Eddy County, NM	**TVD Reference:**	Rig @ 3269.00usft (GL:3,240' + KB:29')
Reference Site:	Leatherneck Fed	**MD Reference:**	Rig @ 3269.00usft (GL:3,240' + KB:29')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	132H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	WellPlanner1
Reference Design:	Prelim Plan A	**Offset TVD Reference:**	Offset Datum

Offset Design Leatherneck Fed - 222H - OH - Prelim Plan A — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+HDGM — **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)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	0.00	60.00	0.00	60.00				
100.00	100.00	100.00	100.00	0.13	0.13	0.00	60.00	0.00	60.00	59.75	0.25	235.742	
200.00	200.00	200.00	200.00	0.49	0.49	0.00	60.00	0.00	60.00	59.03	0.97	61.763	
300.00	300.00	300.00	300.00	0.84	0.84	0.00	60.00	0.00	60.00	58.31	1.69	35.537	
400.00	400.00	400.00	400.00	1.20	1.20	0.00	60.00	0.00	60.00	57.59	2.41	24.944	
500.00	500.00	500.00	500.00	1.56	1.56	0.00	60.00	0.00	60.00	56.88	3.12	19.217	
600.00	600.00	600.00	600.00	1.92	1.92	0.00	60.00	0.00	60.00	56.16	3.84	15.628	
700.00	700.00	700.00	700.00	2.28	2.28	0.00	60.00	0.00	60.00	55.44	4.56	13.169	
800.00	800.00	800.00	800.00	2.64	2.64	0.00	60.00	0.00	60.00	54.73	5.27	11.378	
900.00	900.00	900.00	900.00	3.00	3.00	0.00	60.00	0.00	60.00	54.01	5.99	10.017	
1,000.00	1,000.00	1,000.00	1,000.00	3.35	3.35	0.00	60.00	0.00	60.00	53.29	6.71	8.946	
1,100.00	1,100.00	1,100.00	1,100.00	3.71	3.71	0.00	60.00	0.00	60.00	52.58	7.42	8.082	
1,200.00	1,200.00	1,200.00	1,200.00	4.07	4.07	0.00	60.00	0.00	60.00	51.86	8.14	7.370	
1,300.00	1,300.00	1,300.00	1,300.00	4.25	4.43	0.00	60.00	0.00	60.00	51.32	8.68	6.911	
1,400.00	1,400.00	1,400.00	1,400.00	4.28	4.79	0.00	60.00	0.00	60.00	50.93	9.07	6.615	
1,500.00	1,500.00	1,500.00	1,500.00	4.34	5.15	0.00	60.00	0.00	60.00	50.51	9.49	6.323	CC, ES
1,600.00	1,599.99	1,600.01	1,599.99	4.43	5.50	159.35	60.00	0.00	60.82	50.88	9.93	6.124	
1,700.00	1,699.96	1,699.96	1,699.96	4.53	5.86	160.17	60.00	0.00	63.27	52.88	10.40	6.086	
1,800.00	1,799.86	1,800.88	1,800.87	4.67	6.21	161.05	59.25	-0.48	66.63	55.76	10.87	6.129	
1,900.00	1,899.68	1,901.86	1,901.81	4.82	6.54	161.57	57.00	-1.91	70.14	58.78	11.36	6.177	
2,000.00	1,999.37	2,002.89	2,002.75	5.00	6.87	161.77	53.25	-4.31	73.78	61.92	11.86	6.220	
2,100.00	2,098.90	2,103.98	2,103.64	5.21	7.21	161.71	48.00	-7.66	77.54	65.15	12.39	6.259	
2,200.00	2,198.26	2,205.11	2,204.46	5.43	7.55	161.42	41.25	-11.98	81.44	68.50	12.94	6.295	
2,300.00	2,297.51	2,304.97	2,303.93	5.68	7.90	161.09	33.92	-16.66	85.48	71.97	13.51	6.328	
2,400.00	2,396.77	2,404.89	2,403.47	5.94	8.24	160.78	26.58	-21.35	89.52	75.42	14.10	6.350	
2,500.00	2,496.02	2,504.80	2,503.01	6.22	8.59	160.51	19.24	-26.04	93.56	78.86	14.70	6.365	
2,600.00	2,595.28	2,604.72	2,602.55	6.51	8.94	160.25	11.90	-30.73	97.60	82.29	15.32	6.372	
2,700.00	2,694.53	2,704.64	2,702.08	6.81	9.29	160.02	4.56	-35.41	101.65	85.70	15.94	6.375	
2,800.00	2,793.79	2,804.55	2,801.62	7.12	9.65	159.80	-2.78	-40.10	105.70	89.11	16.58	6.374	
2,900.00	2,893.04	2,904.47	2,901.16	7.44	10.00	159.60	-10.12	-44.79	109.75	92.52	17.23	6.370	
3,000.00	2,992.30	3,004.39	3,000.69	7.77	10.36	159.42	-17.46	-49.48	113.80	95.91	17.88	6.363	
3,100.00	3,091.55	3,104.31	3,100.23	8.10	10.72	159.25	-24.79	-54.17	117.85	99.30	18.55	6.354	
3,200.00	3,190.81	3,204.22	3,199.77	8.44	11.08	159.09	-32.13	-58.85	121.90	102.68	19.22	6.344	
3,300.00	3,290.06	3,304.14	3,299.31	8.78	11.45	158.93	-39.47	-63.54	125.95	106.06	19.89	6.332	
3,400.00	3,389.32	3,404.06	3,398.84	9.13	11.81	158.79	-46.81	-68.23	130.01	109.44	20.57	6.320	
3,500.00	3,488.57	3,503.98	3,498.38	9.48	12.17	158.66	-54.15	-72.92	134.06	112.81	21.25	6.308	
3,600.00	3,587.82	3,603.89	3,597.92	9.84	12.54	158.54	-61.49	-77.61	138.12	116.17	21.94	6.295	
3,700.00	3,687.08	3,703.81	3,697.45	10.19	12.91	158.42	-68.83	-82.29	142.17	119.54	22.63	6.282	
3,800.00	3,786.33	3,803.73	3,796.99	10.56	13.27	158.31	-76.17	-86.98	146.23	122.90	23.33	6.268	
3,900.00	3,885.59	3,903.65	3,896.53	10.92	13.64	158.20	-83.50	-91.67	150.29	126.26	24.03	6.255	
4,000.00	3,984.84	4,003.56	3,996.06	11.29	14.01	158.10	-90.84	-96.36	154.34	129.62	24.73	6.242	
4,100.00	4,084.10	4,103.48	4,095.60	11.65	14.38	158.01	-98.18	-101.05	158.40	132.97	25.43	6.229	
4,200.00	4,183.35	4,203.40	4,195.14	12.03	14.75	157.92	-105.52	-105.73	162.46	136.32	26.14	6.216	
4,300.00	4,282.61	4,303.31	4,294.68	12.40	15.12	157.83	-112.86	-110.42	166.52	139.67	26.84	6.203	
4,400.00	4,381.86	4,403.23	4,394.21	12.77	15.49	157.75	-120.20	-115.11	170.58	143.02	27.55	6.191	
4,500.00	4,481.12	4,503.15	4,493.75	13.15	15.86	157.67	-127.54	-119.80	174.64	146.37	28.27	6.178	
4,600.00	4,580.37	4,603.07	4,593.29	13.52	16.23	157.60	-134.88	-124.49	178.70	149.72	28.98	6.166	
4,700.00	4,679.63	4,702.98	4,692.82	13.90	16.60	157.53	-142.22	-129.17	182.76	153.06	29.69	6.155	
4,800.00	4,778.88	4,802.90	4,792.36	14.28	16.97	157.46	-149.55	-133.86	186.82	156.41	30.41	6.143	
4,900.00	4,878.13	4,902.82	4,891.90	14.66	17.35	157.39	-156.89	-138.55	190.88	159.75	31.13	6.132	
5,000.00	4,977.39	5,002.74	4,991.44	15.04	17.72	157.33	-164.23	-143.24	194.94	163.09	31.85	6.121	
5,100.00	5,076.64	5,102.65	5,090.97	15.42	18.09	157.27	-171.57	-147.93	199.00	166.43	32.57	6.111	

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

Pro Directional

Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well 132H
Project:	Eddy County, NM	**TVD Reference:**	Rig @ 3269.00usft (GL:3,240' + KB:29')
Reference Site:	Leatherneck Fed	**MD Reference:**	Rig @ 3269.00usft (GL:3,240' + KB:29')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	132H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	WellPlanner1
Reference Design:	Prelim Plan A	**Offset TVD Reference:**	Offset Datum

Offset Design Leatherneck Fed - 222H - OH - Prelim Plan A — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+HDGM — **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)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,200.00	5,175.90	5,202.57	5,190.51	15.81	18.47	157.22	-178.91	-152.61	203.06	169.77	33.29	6.100	
5,300.00	5,275.15	5,302.49	5,290.05	16.19	18.84	157.16	-186.25	-157.30	207.12	173.11	34.01	6.090	
5,400.00	5,374.41	5,402.40	5,389.58	16.57	19.21	157.11	-193.59	-161.99	211.18	176.45	34.73	6.080	
5,500.00	5,473.66	5,502.32	5,489.12	16.96	19.59	157.06	-200.93	-166.68	215.25	179.79	35.46	6.071	
5,600.00	5,572.92	5,602.24	5,588.66	17.34	19.96	157.01	-208.26	-171.37	219.31	183.13	36.18	6.062	
5,700.00	5,672.17	5,702.16	5,688.20	17.73	20.34	156.96	-215.60	-176.05	223.37	186.46	36.91	6.052	
5,800.00	5,771.43	5,802.07	5,787.73	18.12	20.71	156.91	-222.94	-180.74	227.43	189.80	37.63	6.044	
5,900.00	5,870.68	5,899.71	5,885.02	18.50	21.08	156.91	-229.88	-185.18	231.73	193.38	38.35	6.043	
6,000.00	5,969.94	5,994.71	5,979.83	18.89	21.43	157.19	-234.91	-188.39	237.80	198.77	39.04	6.092	
6,100.00	6,069.34	6,089.49	6,074.54	19.27	21.77	157.69	-237.95	-190.33	244.73	205.04	39.70	6.165	
6,200.00	6,168.99	6,184.12	6,169.16	19.64	22.09	158.25	-239.00	-191.00	251.32	210.99	40.33	6.232	
6,300.00	6,268.83	6,283.79	6,268.83	20.00	22.42	158.75	-239.00	-191.00	256.60	215.60	41.00	6.258	
6,400.00	6,368.78	6,383.74	6,368.78	20.34	22.75	159.01	-239.00	-191.00	259.45	217.78	41.68	6.225	
6,500.00	6,468.77	6,483.74	6,468.77	20.64	23.08	0.00	-239.00	-191.00	260.00	217.66	42.34	6.141	
6,600.00	6,568.77	6,583.74	6,568.77	20.94	23.42	0.00	-239.00	-191.00	260.00	217.02	42.98	6.049	
6,700.00	6,668.77	6,683.74	6,668.77	21.23	23.75	0.00	-239.00	-191.00	260.00	216.37	43.63	5.959	
6,800.00	6,768.77	6,783.74	6,768.77	21.53	24.08	0.00	-239.00	-191.00	260.00	215.71	44.29	5.871	
6,900.00	6,868.77	6,883.74	6,868.77	21.83	24.42	0.00	-239.00	-191.00	260.00	215.06	44.94	5.785	
7,000.00	6,968.77	6,983.74	6,968.77	22.13	24.75	0.00	-239.00	-191.00	260.00	214.40	45.60	5.702	
7,100.00	7,068.77	7,083.74	7,068.77	22.43	25.09	0.00	-239.00	-191.00	260.00	213.74	46.26	5.621	
7,200.00	7,168.77	7,183.74	7,168.77	22.73	25.43	0.00	-239.00	-191.00	260.00	213.08	46.92	5.542	
7,300.00	7,268.77	7,283.74	7,268.77	23.04	25.76	0.00	-239.00	-191.00	260.00	212.42	47.58	5.465	
7,400.00	7,368.77	7,383.74	7,368.77	23.35	26.10	0.00	-239.00	-191.00	260.00	211.76	48.24	5.390	
7,500.00	7,468.77	7,483.74	7,468.77	23.65	26.44	0.00	-239.00	-191.00	260.00	211.09	48.91	5.316	
7,600.00	7,568.77	7,583.74	7,568.77	23.96	26.78	0.00	-239.00	-191.00	260.00	210.43	49.57	5.245	
7,700.00	7,668.77	7,683.74	7,668.77	24.28	27.12	0.00	-239.00	-191.00	260.00	209.76	50.24	5.175	
7,800.00	7,768.77	7,783.74	7,768.77	24.59	27.46	0.00	-239.00	-191.00	260.00	209.09	50.91	5.107	
7,900.00	7,868.77	7,883.74	7,868.77	24.90	27.80	0.00	-239.00	-191.00	260.00	208.42	51.58	5.041	
8,000.00	7,968.77	7,983.74	7,968.77	25.22	28.14	0.00	-239.00	-191.00	260.00	207.75	52.25	4.976	
8,100.00	8,068.77	8,083.74	8,068.77	25.53	28.48	0.00	-239.00	-191.00	260.00	207.07	52.93	4.912	
8,200.00	8,168.77	8,183.74	8,168.77	25.85	28.82	0.00	-239.00	-191.00	260.00	206.40	53.60	4.851	
8,300.00	8,268.77	8,283.74	8,268.77	26.17	29.17	0.00	-239.00	-191.00	260.00	205.72	54.28	4.790	
8,400.00	8,368.77	8,383.74	8,368.77	26.49	29.51	0.00	-239.00	-191.00	260.00	205.05	54.95	4.731	
8,500.00	8,468.77	8,483.74	8,468.77	26.65	29.85	0.00	-239.00	-191.00	260.00	204.53	55.47	4.688	
8,600.00	8,568.62	8,583.58	8,568.62	26.65	30.19	-79.86	-239.00	-191.00	259.27	203.45	55.83	4.644	
8,700.00	8,666.41	8,681.37	8,666.41	26.63	30.53	-84.50	-239.00	-191.00	256.46	200.23	56.23	4.561	
8,773.58	8,735.33	8,750.29	8,735.33	26.61	30.77	-90.00	-239.00	-191.00	255.17	198.62	56.55	4.512	
8,800.00	8,759.19	8,774.15	8,759.19	26.61	30.85	-92.27	-239.00	-191.00	255.42	198.75	56.67	4.507	
8,900.00	8,844.14	8,859.10	8,844.14	26.59	31.14	-101.34	-239.00	-191.00	263.04	205.90	57.14	4.603	
9,000.00	8,918.69	8,956.30	8,941.28	26.58	31.47	-112.84	-240.07	-189.27	285.54	227.92	57.62	4.956	
9,100.00	8,980.86	9,105.64	9,086.77	26.59	31.96	-131.60	-256.78	-162.28	316.69	260.53	56.16	5.639	
9,200.00	9,028.92	9,285.81	9,244.03	26.65	32.47	-150.84	-302.25	-88.82	351.03	300.22	50.81	6.908	
9,300.00	9,061.42	9,472.61	9,372.55	26.93	32.95	-167.13	-366.46	29.39	384.68	340.68	44.00	8.744	
9,400.00	9,077.37	9,703.69	9,474.06	27.58	34.01	-177.79	-419.88	228.18	413.18	376.78	36.41	11.349	
9,500.00	9,079.00	9,921.53	9,500.00	28.42	35.46	180.00	-433.67	442.86	421.00	386.38	34.62	12.160	
9,600.00	9,079.00	10,021.53	9,500.00	29.42	36.28	180.00	-433.76	542.86	421.00	385.96	35.04	12.014	
9,700.00	9,079.00	10,121.53	9,500.00	30.56	37.23	180.00	-433.85	642.86	421.00	385.47	35.53	11.850	
9,800.00	9,079.00	10,221.53	9,500.00	31.84	38.28	180.00	-433.94	742.86	421.00	384.93	36.07	11.670	
9,900.00	9,079.00	10,321.53	9,500.00	33.22	39.45	180.00	-434.02	842.86	421.00	384.32	36.68	11.478	
10,000.00	9,079.00	10,421.53	9,500.00	34.70	40.71	180.00	-434.11	942.86	421.00	383.66	37.34	11.274	
10,100.00	9,079.00	10,521.53	9,500.00	36.27	42.06	180.00	-434.20	1,042.86	421.00	382.94	38.06	11.062	
10,200.00	9,079.00	10,621.53	9,500.00	37.91	43.49	180.00	-434.29	1,142.86	421.00	382.18	38.82	10.844	

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

Pro Directional

Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well 132H
Project:	Eddy County, NM	**TVD Reference:**	Rig @ 3269.00usft (GL:3,240' + KB:29')
Reference Site:	Leatherneck Fed	**MD Reference:**	Rig @ 3269.00usft (GL:3,240' + KB:29')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	132H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	WellPlanner1
Reference Design:	Prelim Plan A	**Offset TVD Reference:**	Offset Datum

Offset Design Leatherneck Fed - 222H - OH - Prelim Plan A — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+HDGM — **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)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,300.00	9,079.00	10,721.53	9,500.00	39.62	44.99	180.00	-434.37	1,242.86	421.00	381.36	39.64	10.621	
10,400.00	9,079.00	10,821.53	9,500.00	41.39	46.56	180.00	-434.46	1,342.86	421.00	380.50	40.50	10.396	
10,500.00	9,079.00	10,921.53	9,500.00	43.21	48.19	180.00	-434.55	1,442.86	421.00	379.60	41.40	10.170	
10,600.00	9,079.00	11,021.53	9,500.00	45.07	49.87	180.00	-434.63	1,542.86	421.00	378.67	42.33	9.945	
10,700.00	9,079.00	11,121.53	9,500.00	46.97	51.60	180.00	-434.72	1,642.86	421.00	377.69	43.31	9.721	
10,800.00	9,079.00	11,221.53	9,500.00	48.91	53.37	180.00	-434.81	1,742.86	421.00	376.68	44.32	9.499	
10,900.00	9,079.00	11,321.53	9,500.00	50.88	55.19	180.00	-434.90	1,842.86	421.00	375.64	45.36	9.281	
10,933.96	9,079.00	11,355.49	9,500.00	51.56	55.81	180.00	-434.93	1,876.83	421.00	375.28	45.72	9.207	
11,000.00	9,079.00	11,421.53	9,500.00	52.87	57.03	180.00	-434.98	1,942.86	421.00	374.57	46.43	9.067	
11,100.00	9,079.00	11,521.53	9,500.00	54.89	58.92	180.00	-435.07	2,042.86	421.00	373.47	47.53	8.857	
11,200.00	9,079.00	11,621.53	9,500.00	56.94	60.83	180.00	-435.16	2,142.86	421.00	372.34	48.66	8.653	
11,300.00	9,079.00	11,721.53	9,500.00	59.00	62.76	180.00	-435.25	2,242.86	421.00	371.20	49.80	8.453	
11,400.00	9,079.00	11,821.53	9,500.00	61.08	64.72	180.00	-435.33	2,342.86	421.00	370.02	50.98	8.259	
11,500.00	9,079.00	11,921.53	9,500.00	63.17	66.71	180.00	-435.42	2,442.86	421.00	368.83	52.17	8.070	
11,600.00	9,079.00	12,021.53	9,500.00	65.28	68.71	180.00	-435.51	2,542.86	421.00	367.62	53.38	7.887	
11,700.00	9,079.00	12,121.53	9,500.00	67.40	70.73	180.00	-435.59	2,642.86	421.00	366.39	54.61	7.709	
11,800.00	9,079.00	12,221.53	9,500.00	69.54	72.77	180.00	-435.68	2,742.86	421.00	365.14	55.86	7.537	
11,900.00	9,079.00	12,321.53	9,500.00	71.68	74.83	180.00	-435.77	2,842.86	421.00	363.88	57.12	7.371	
12,000.00	9,079.00	12,421.53	9,500.00	73.84	76.90	180.00	-435.86	2,942.86	421.00	362.60	58.40	7.209	
12,100.00	9,079.00	12,521.53	9,500.00	76.00	78.98	180.00	-435.94	3,042.86	421.00	361.31	59.69	7.053	
12,200.00	9,079.00	12,621.53	9,500.00	78.17	81.07	180.00	-436.03	3,142.86	421.00	360.01	60.99	6.902	
12,300.00	9,079.00	12,721.53	9,500.00	80.35	83.18	180.00	-436.12	3,242.86	421.00	358.69	62.31	6.756	
12,400.00	9,079.00	12,821.53	9,500.00	82.54	85.30	180.00	-436.21	3,342.86	421.00	357.36	63.64	6.615	
12,500.00	9,079.00	12,921.53	9,500.00	84.73	87.42	180.00	-436.29	3,442.86	421.00	356.02	64.98	6.479	
12,600.00	9,079.00	13,021.53	9,500.00	86.93	89.56	180.00	-436.38	3,542.86	421.00	354.67	66.33	6.347	
12,700.00	9,079.00	13,121.53	9,500.00	89.13	91.70	180.00	-436.47	3,642.86	421.00	353.31	67.69	6.220	
12,800.00	9,079.00	13,221.53	9,500.00	91.34	93.85	180.00	-436.55	3,742.86	421.00	351.95	69.05	6.097	
12,900.00	9,079.00	13,321.53	9,500.00	93.55	96.01	180.00	-436.64	3,842.86	421.00	350.57	70.43	5.978	
13,000.00	9,079.00	13,421.53	9,500.00	95.77	98.17	180.00	-436.73	3,942.86	421.00	349.19	71.81	5.862	
13,100.00	9,079.00	13,521.53	9,500.00	97.99	100.34	180.00	-436.82	4,042.86	421.00	347.79	73.21	5.751	
13,200.00	9,079.00	13,621.53	9,500.00	100.22	102.52	180.00	-436.90	4,142.86	421.00	346.40	74.60	5.643	
13,300.00	9,079.00	13,721.53	9,500.00	102.45	104.70	180.00	-436.99	4,242.86	421.00	344.99	76.01	5.539	
13,400.00	9,079.00	13,821.53	9,500.00	104.68	106.89	180.00	-437.08	4,342.86	421.00	343.58	77.42	5.438	
13,500.00	9,079.00	13,921.53	9,500.00	106.92	109.09	180.00	-437.17	4,442.86	421.00	342.16	78.84	5.340	
13,600.00	9,079.00	14,021.53	9,500.00	109.16	111.28	180.00	-437.25	4,542.86	421.00	340.74	80.26	5.245	
13,700.00	9,079.00	14,121.53	9,500.00	111.40	113.48	180.00	-437.34	4,642.86	421.00	339.31	81.69	5.154	
13,800.00	9,079.00	14,221.53	9,500.00	113.65	115.69	180.00	-437.43	4,742.86	421.00	337.88	83.12	5.065	
13,900.00	9,079.00	14,321.53	9,500.00	115.89	117.90	180.00	-437.51	4,842.86	421.00	336.44	84.56	4.979	
13,934.01	9,079.00	14,355.54	9,500.00	116.66	118.65	180.00	-437.54	4,876.87	421.00	335.95	85.05	4.950	
14,000.00	9,079.00	14,421.53	9,500.00	118.14	120.11	180.00	-437.60	4,942.86	421.00	335.00	86.00	4.895	
14,100.00	9,079.00	14,521.53	9,500.00	120.39	122.33	180.00	-437.69	5,042.86	421.00	333.55	87.45	4.814	
14,200.00	9,079.00	14,621.53	9,500.00	122.65	124.55	180.00	-437.78	5,142.86	421.00	332.10	88.90	4.735	
14,300.00	9,079.00	14,721.53	9,500.00	124.90	126.78	180.00	-437.86	5,242.86	421.00	330.64	90.36	4.659	
14,400.00	9,079.00	14,821.53	9,500.00	127.16	129.00	180.00	-437.95	5,342.86	421.00	329.18	91.82	4.585	
14,500.00	9,079.00	14,921.53	9,500.00	129.42	131.23	180.00	-438.04	5,442.86	421.00	327.72	93.28	4.513	
14,600.00	9,079.00	15,021.53	9,500.00	131.68	133.46	180.00	-438.13	5,542.86	421.00	326.25	94.75	4.443	
14,700.00	9,079.00	15,121.53	9,500.00	133.94	135.70	180.00	-438.21	5,642.86	421.00	324.78	96.22	4.376	
14,800.00	9,079.00	15,221.53	9,500.00	136.21	137.93	180.00	-438.30	5,742.86	421.00	323.31	97.69	4.310	
14,900.00	9,079.00	15,321.53	9,500.00	138.47	140.17	180.00	-438.39	5,842.86	421.00	321.83	99.17	4.245	
15,000.00	9,079.00	15,421.53	9,500.00	140.74	142.41	180.00	-438.47	5,942.86	421.00	320.36	100.64	4.183	
15,100.00	9,079.00	15,521.53	9,500.00	143.01	144.66	180.00	-438.56	6,042.86	421.00	318.88	102.12	4.122	
15,200.00	9,079.00	15,621.53	9,500.00	145.28	146.90	180.00	-438.65	6,142.86	421.00	317.39	103.61	4.063	

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

Pro Directional

Anticollision Report

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well 132H
Project:	Eddy County, NM	**TVD Reference:**	Rig @ 3269.00usft (GL:3,240' + KB:29')
Reference Site:	Leatherneck Fed	**MD Reference:**	Rig @ 3269.00usft (GL:3,240' + KB:29')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	132H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	WellPlanner1
Reference Design:	Prelim Plan A	**Offset TVD Reference:**	Offset Datum

Offset Design Leatherneck Fed - 222H - OH - Prelim Plan A — **Offset Site Error:** 0.00 usft

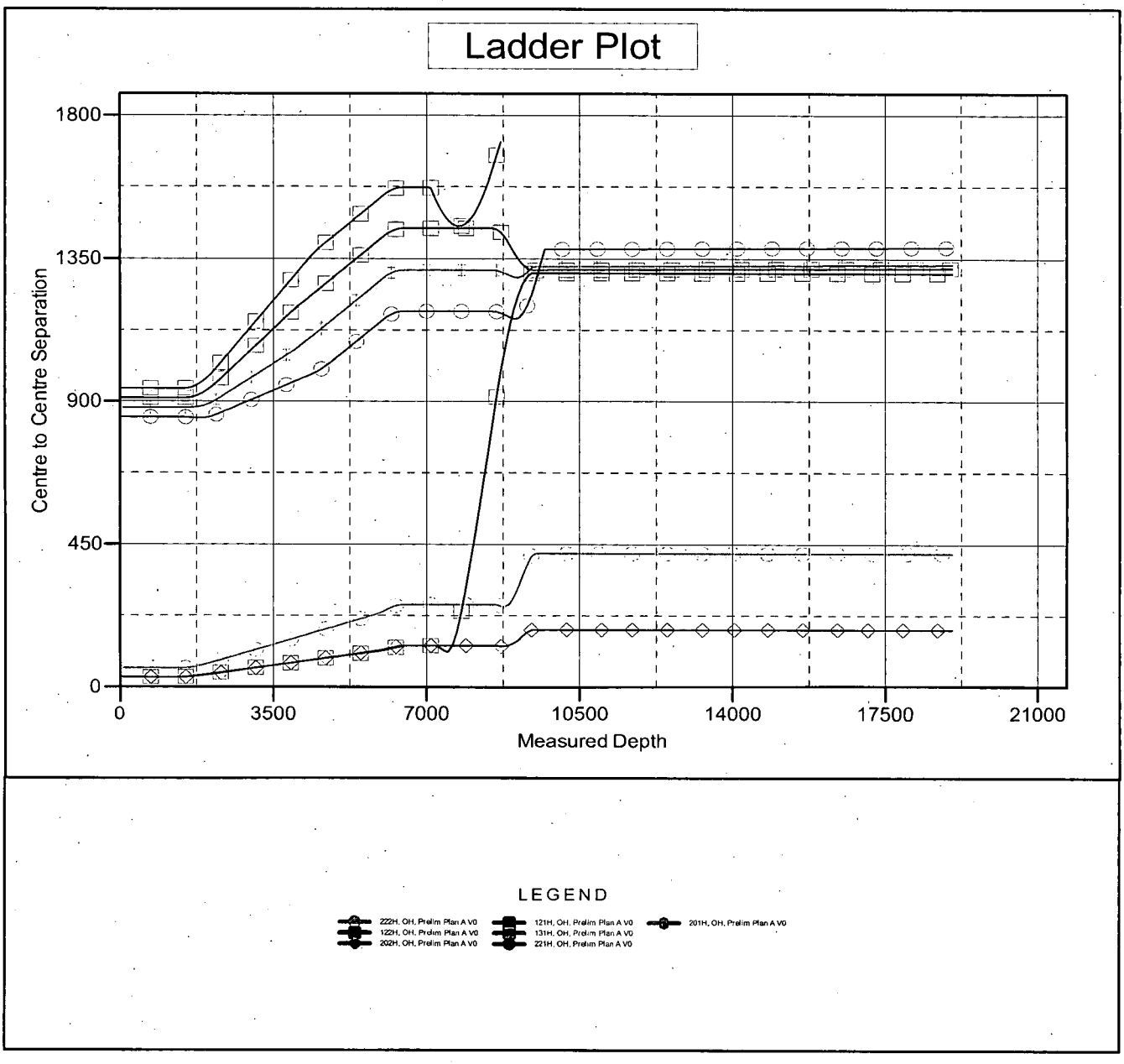
Survey Program: 0-MWD+HDGM — **Offset Well Error:** 0.00 usft

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)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
15,300.00	9,079.00	15,721.53	9,500.00	147.55	149.15	180.00	-438.74	6,242.86	421.00	315.91	105.09	4.006	
15,400.00	9,079.00	15,821.53	9,500.00	149.82	151.40	180.00	-438.82	6,342.86	421.00	314.42	106.58	3.950	
15,500.00	9,079.00	15,921.53	9,500.00	152.09	153.65	180.00	-438.91	6,442.86	421.00	312.93	108.07	3.895	
15,600.00	9,079.00	16,021.53	9,500.00	154.36	155.90	180.00	-439.00	6,542.86	421.00	311.43	109.57	3.842	
15,700.00	9,079.00	16,121.53	9,500.00	156.64	158.16	180.00	-439.09	6,642.86	421.00	309.94	111.06	3.791	
15,800.00	9,079.00	16,221.53	9,500.00	158.92	160.41	180.00	-439.17	6,742.86	421.00	308.44	112.56	3.740	
15,900.00	9,079.00	16,321.53	9,500.00	161.19	162.67	180.00	-439.26	6,842.86	421.00	306.94	114.06	3.691	
16,000.00	9,079.00	16,421.53	9,500.00	163.47	164.93	180.00	-439.35	6,942.86	421.00	305.44	115.56	3.643	
16,100.00	9,079.00	16,521.53	9,500.00	165.75	167.19	180.00	-439.43	7,042.86	421.00	303.94	117.06	3.596	
16,200.00	9,079.00	16,621.53	9,500.00	168.03	169.45	180.00	-439.52	7,142.86	421.00	302.43	118.57	3.551	
16,300.00	9,079.00	16,721.53	9,500.00	170.31	171.71	180.00	-439.61	7,242.86	421.00	300.93	120.07	3.506	
16,400.00	9,079.00	16,821.53	9,500.00	172.59	173.97	180.00	-439.70	7,342.86	421.00	299.42	121.58	3.463	
16,500.00	9,079.00	16,921.53	9,500.00	174.87	176.24	180.00	-439.78	7,442.86	421.00	297.91	123.09	3.420	
16,600.00	9,079.00	17,021.53	9,500.00	177.15	178.50	180.00	-439.87	7,542.86	421.00	296.40	124.60	3.379	
16,700.00	9,079.00	17,121.53	9,500.00	179.43	180.77	180.00	-439.96	7,642.86	421.00	294.89	126.11	3.338	
16,800.00	9,079.00	17,221.53	9,500.00	181.71	183.04	180.00	-440.05	7,742.86	421.00	293.37	127.63	3.299	
16,900.00	9,079.00	17,321.53	9,500.00	184.00	185.30	180.00	-440.13	7,842.86	421.00	291.86	129.14	3.260	
17,000.00	9,079.00	17,421.53	9,500.00	186.28	187.57	180.00	-440.22	7,942.86	421.00	290.34	130.66	3.222	
17,100.00	9,079.00	17,521.53	9,500.00	188.57	189.84	180.00	-440.31	8,042.86	421.00	288.82	132.18	3.185	
17,200.00	9,079.00	17,621.53	9,500.00	190.85	192.12	180.00	-440.39	8,142.86	421.00	287.30	133.70	3.149	
17,300.00	9,079.00	17,721.53	9,500.00	193.14	194.39	180.00	-440.48	8,242.86	421.00	285.78	135.22	3.114	
17,400.00	9,079.00	17,821.53	9,500.00	195.43	196.66	180.00	-440.57	8,342.86	421.00	284.26	136.74	3.079	
17,500.00	9,079.00	17,921.53	9,500.00	197.71	198.93	180.00	-440.66	8,442.86	421.00	282.74	138.26	3.045	
17,600.00	9,079.00	18,021.53	9,500.00	200.00	201.21	180.00	-440.74	8,542.86	421.00	281.22	139.78	3.012	
17,700.00	9,079.00	18,121.53	9,500.00	202.29	203.48	180.00	-440.83	8,642.86	421.00	279.69	141.31	2.979	
17,800.00	9,079.00	18,221.53	9,500.00	204.58	205.76	180.00	-440.92	8,742.86	421.00	278.17	142.83	2.948	
17,900.00	9,079.00	18,321.53	9,500.00	206.86	208.04	180.00	-441.01	8,842.86	421.00	276.64	144.36	2.916	
18,000.00	9,079.00	18,421.53	9,500.00	209.15	210.31	180.00	-441.09	8,942.86	421.00	275.12	145.88	2.886	
18,100.00	9,079.00	18,521.53	9,500.00	211.44	212.59	180.00	-441.18	9,042.86	421.00	273.59	147.41	2.856	
18,200.00	9,079.00	18,621.53	9,500.00	213.73	214.87	180.00	-441.27	9,142.86	421.00	272.06	148.94	2.827	
18,300.00	9,079.00	18,721.53	9,500.00	216.02	217.15	180.00	-441.35	9,242.86	421.00	270.53	150.47	2.798	
18,400.00	9,079.00	18,821.53	9,500.00	218.31	219.43	180.00	-441.44	9,342.86	421.00	269.00	152.00	2.770	
18,500.00	9,079.00	18,921.53	9,500.00	220.60	221.71	180.00	-441.53	9,442.86	421.00	267.47	153.53	2.742	
18,600.00	9,079.00	19,021.53	9,500.00	222.90	223.99	180.00	-441.62	9,542.86	421.00	265.94	155.06	2.715	
18,700.00	9,079.00	19,121.53	9,500.00	225.19	226.27	180.00	-441.70	9,642.86	421.00	264.40	156.60	2.688	
18,800.00	9,079.00	19,221.53	9,500.00	227.48	228.55	180.00	-441.79	9,742.86	421.00	262.87	158.13	2.662	
18,900.00	9,079.00	19,321.53	9,500.00	229.77	230.84	180.00	-441.88	9,842.86	421.00	261.34	159.66	2.637	
19,000.00	9,079.00	19,421.53	9,500.00	232.06	233.12	180.00	-441.96	9,942.86	421.00	259.80	161.20	2.612	
19,040.14	9,079.00	19,461.67	9,500.00	232.98	234.04	180.00	-442.00	9,983.00	421.00	259.18	161.82	2.602 SF	

Company:	Matador Resources	**Local Co-ordinate Reference:**	Well 132H
Project:	Eddy County, NM	**TVD Reference:**	Rig @ 3269.00usft (GL:3,240' + KB:29')
Reference Site:	Leatherneck Fed	**MD Reference:**	Rig @ 3269.00usft (GL:3,240' + KB:29')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	132H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	WellPlanner1
Reference Design:	Prelim Plan A	**Offset TVD Reference:**	Offset Datum

Reference Depths are relative to Rig @ 3269.00usft (GL:3,240' + KB:29
Offset Depths are relative to Offset Datum
Central Meridian is -104.3333333

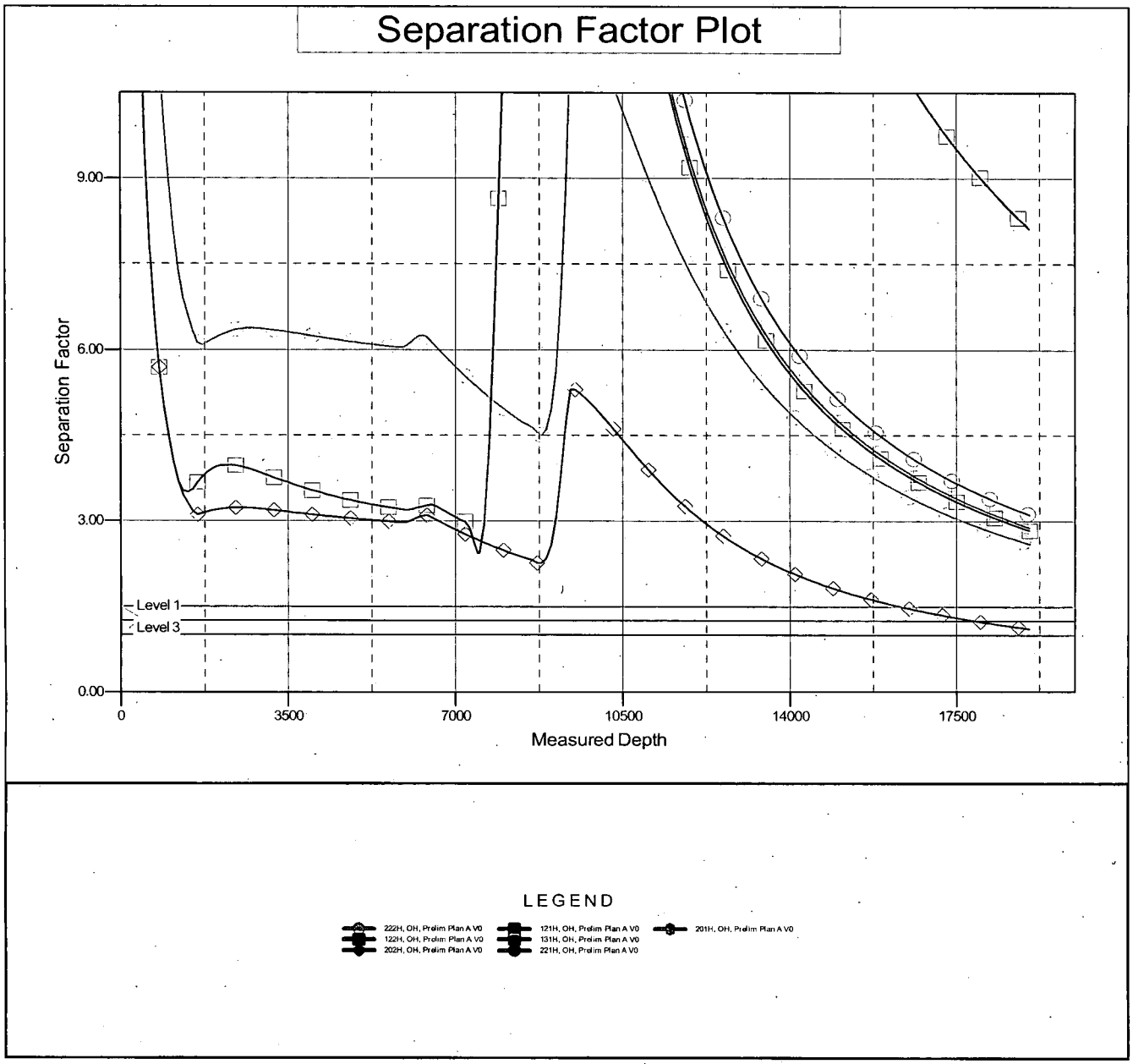
Coordinates are relative to: 132H
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.11°



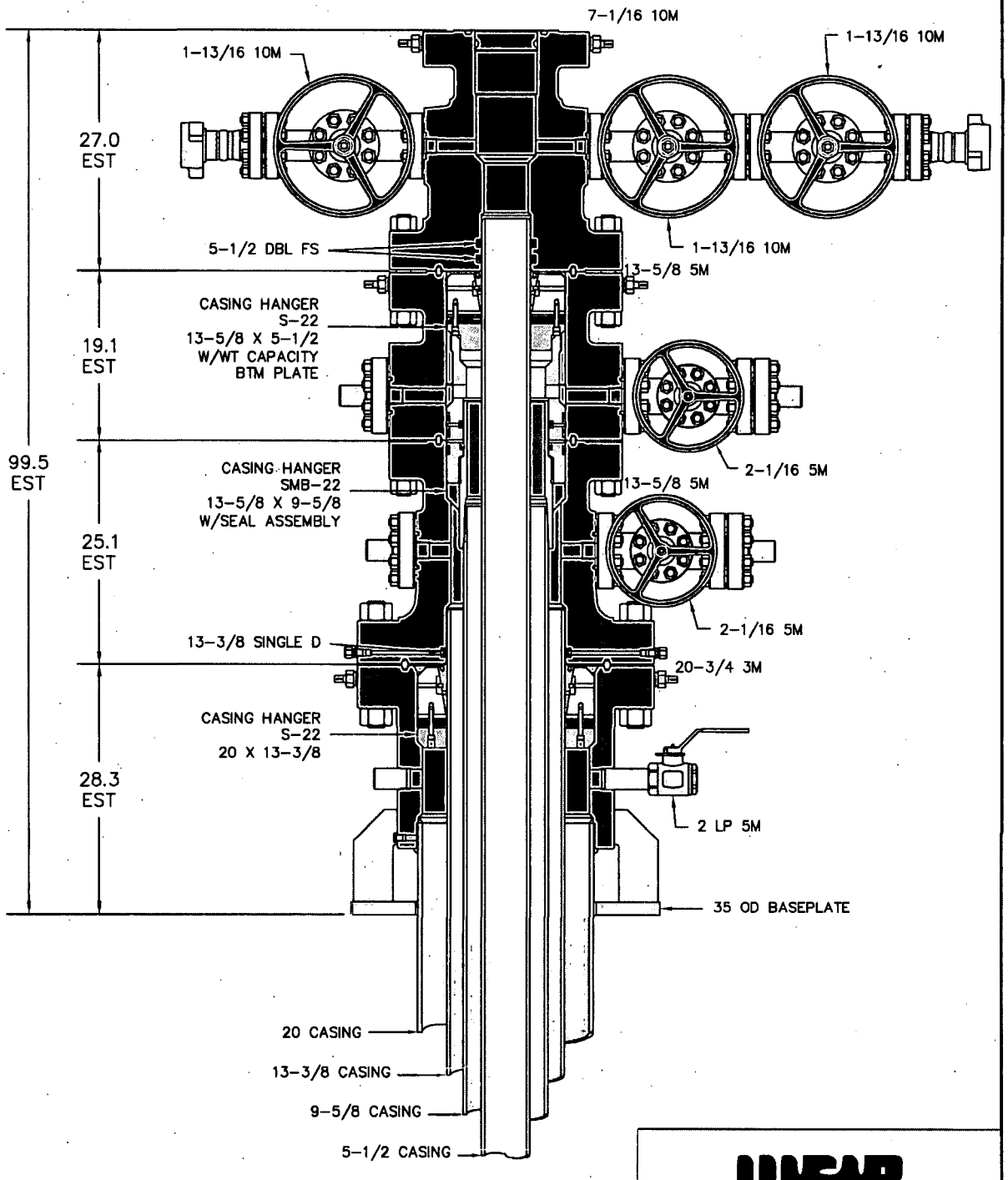
Company:	Matador Resources	**Local Co-ordinate Reference:**	Well 132H
Project:	Eddy County, NM	**TVD Reference:**	Rig @ 3269.00usft (GL:3,240' + KB:29')
Reference Site:	Leatherneck Fed	**MD Reference:**	Rig @ 3269.00usft (GL:3,240' + KB:29')
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	132H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OH	**Database:**	WellPlanner1
Reference Design:	Prelim Plan A	**Offset TVD Reference:**	Offset Datum

Reference Depths are relative to Rig @ 3269.00usft (GL:3,240' + KB:29
Offset Depths are relative to Offset Datum
Central Meridian is -104.3333333

Coordinates are relative to: 132H
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.11°



MATADOR PROD. CO.



NOTE:
DIMENSIONS SHOWN ON THIS DRAWING ARE ESTIMATES ONLY AND CAN VARY SIGNIFICANTLY DEPENDING ON RAW MATERIAL LENGTHS. NO GUARANTEE OF STACKUP HEIGHT IS IMPLIED. DIMENSIONS SHOWN SHOULD BE CONSIDERED FOR REFERENCE PURPOSES ONLY.

WEAR

10,000 PSI WELLHEAD ASSEMBLY
20 X 13-3/8 X 9-5/8 X 5-1/2

DRAWN BY	RPL	SCALE	1:14	DATE	09JAN17	REV
CHECKED BY		DRAWING NO.	P-21906			
APPROVED BY						

Master Estimate Summary Report

1/17/2017 2:50:55 PM

Seaboard International Inc
P.O. Box 450989
Houston TX 77245-0989

Master Estimate Number: MQ00000589

Customer: MA02100

MATADOR PRODUCTION COMPANY
5400 Lbj Fwy Ste 1500
ONE LINCOLN CENTER
Dallas TX 75240-1017
USA

MATADOR PRODUCTION COMPANY
5400 Lbj Fwy Ste 1500
ONE LINCOLN CENTER
Dallas TX 75240-1017
USA

Phone: (972) 371-5200

Fax: (972) 371-5201

PATRICK WALSH

20 X 13-3/8 X 9-5/8 X 5-1/2 10,000 WP
DRAWING P-21906

Seq #	Estimate Number	Estimate Notes	Price
1	HO00002750	CASING HEAD ASSEMBLY	$ 9,301.33
2	HO00002751	CASING SPOOL ASSEMBLY	$ 17,403.18
3	HO00002752	CASING SPOOL ASSEMBLY	$ 8,742.19
4	HO00002753	TUBING HEAD ASSEMBLY	$ 13,551.42

Sales Price	$ 48,998.12
Discount	$ 0.00
Misc Charges	$ 0.00
Total Tax1	$ 3,797.35
Total Amount	$ 52,795.47

Additional Notes:

SEE HO-2754 FOR CONTINGENCY EQUIPMENT

SEE Q-856 FOR RENTAL DRILLING TOOLS

Estimates

1/17/2017 2:46:30PM

Confidential

Seaboard International Inc
P.O. Box 450989
Houston TX 77245-0989

Warehouse: ODES

Customer: MA02100
PATRICK WALSH
MATADOR PRODUCTION COMPANY
5400 Lbj Fwy Ste 1500
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Fax: (972) 371-5201

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Dallas TX 75240-1017
USA

Estimate	Terms	Customer Quote	Quote Date	Expiration Date	Salesperson	Cust Curr
HO00002750	Net 30		1/13/2017	3/14/2017	TStavley	USD

COLine	Quantity	Item	Lead Time (Weeks)	Unit Price	Extended Price
1	1.00 EA	ENG - MANUF A28748-001-UO	6	$9,151.51	$9,151.51
	CASING HEAD, S-22-R-8, 20 SOW X 20-3/4 3M, TWO 2 LP OUTLETS, 19.00 BORE, 35 OD BASEPLATE, 6A-U-DD-1-1				
2	1.00 EA	066090-001 BULL PLUG, XXH, 2 LP X 4 LG, SOLID, 4130 60K	6	$16.23	$16.23
3	1.00 EA	066226-000 NIPPLE, 2 LP X 6 LG, XXH	6	$21.84	$21.84
4	1.00 EA	064002-007 VALVE, BALL, 2 5M, SE, 2 LP, REDUCED PORT, NACE	6	$111.75	$111.75
	CASING HEAD ASSEMBLY				

Sale Amount:	9,301.33
Order Disc (0.00%):	0.00
Sales Tax:	720.86
Misc Charges:	0.00
Total Amount:	$10,022.19

Estimates

1/17/2017 2:46:30PM

Confidential

Estimate	Terms	Customer Quote	Quote Date	Expiration Date	Salesperson	Cust Curr
HO00002750	Net 30		1/13/2017	3/14/2017	TStavley	USD

Customer Stamp / Signature:

Authorized Signature

Estimates

1/17/2017 2:46:30PM

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Seaboard International Inc
P.O. Box 450989
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USA

Estimate	Terms	Customer Quote	Quote Date	Expiration Date	Salesperson	Cust Curr
HO00002751	Net 30		1/13/2017	3/14/2017	TStavley	USD

COLine	Quantity	Item	Lead Time (Weeks)	Unit Price	Extended Price
1	1.00 EA	A22518-002 CASING SPOOL, S-22, 20-3/4 3M X 13-5/8 5M, TWO 2-1/16 5M STD OUTLETS, 2-1/16 VRP & 13-3/8 SINGLE IPS, (.995/1.000 GRV WIDTH), 6A-U-DD-1-2	6	$10,708.56	$10,708.56
2	1.00 EA	B10110-000 VALVE REMOVAL PLUG, 1-1/2 SHARP VEE, SOLID	6	$18.36	$18.36
3	2.00 EA	495175-008 FLANGE, COMPANION, 2-1/16 5M X 2 LP, 6A-LU-DD/EE-NL-2	6	$105.47	$210.94
4	2.00 EA	066398-001 BULL PLUG, XXH, 2 LP X 4 LG, TAPPED 1/2 LP, 4130 75K	6	$17.49	$34.98
5	1.00 EA	A11245-001 FITTING, BODY GREASE, 1/2 LP, CS	6	$18.11	$18.11
6	1.00 EA	564630-DB1 VALVE, MODEL 510, 2-1/16 5M, FE, DD-NL TRIM, 6A-LU-DD-2-1-NL	6	$622.70	$622.70
7	3.00 EA	050193-000 RING GASKET, API R-24	6	$5.10	$15.30
8	8.00 EA	345899-001 STUD W/TWO NUTS, 7/8 9UNC X 6-1/2 LG, A193 B7, CAD PLATED	6	$3.53	$28.24

Confidential

Estimate	Terms	Customer Quote	Quote Date	Expiration Date	Salesperson	Cust Curr
HO00002751	Net 30		1/13/2017	3/14/2017	TStavley	USD

COLine	Quantity	Item	Lead Time (Weeks)	Unit Price	Extended Price
9	1.00		6	$101.39	$101.39
	EA	050156-000 RING GASKET, API R-74			
10	20.00		6	$49.27	$985.40
	EA	A17635-001 STUD W/TWO NUTS, 2 8UN X 14-1/2 LG, A193 B7, CAD PLATED			
11	1.00		6	$4,659.20	$4,659.20
	EA	A16236-001 CASING HANGER, S-22, 20 X 13-3/8			

CASING SPOOL ASSEMBLY

Sale Amount:	17,403.18
Order Disc (0.00%):	0.00
Sales Tax:	1,348.75
Misc Charges:	0.00
Total Amount:	$18,751.93

Estimates

1/17/2017 2:46:30PM

Confidential

Estimate	Terms	Customer Quote	Quote Date	Expiration Date	Salesperson	Cust Curr
HO00002751	Net 30		1/13/2017	3/14/2017	TStavley	USD

Customer Stamp / Signature:

Authorized Signature

Estimates

1/17/2017 2:46:30PM

Confidential

Seaboard International Inc
P.O. Box 450989
Houston TX 77245-0989

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PATRICK WALSH
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USA

Estimate	Terms	Customer Quote	Quote Date	Expiration Date	Salesperson	Cust Curr
HO00002752	Net 30		1/13/2017	3/14/2017	TStavley	USD

COLine	Quantity	Item	Lead Time (Weeks)	Unit Price	Extended Price
1	1.00 EA	A31520-001 CASING SPOOL, SMB-22-R-8, 13-5/8 5M STD BTM X 13-5/8 5M FLG TOP, TWO 2-1/16 5M STD OUTLETS, W/2-1/16 VRP, 6A-PU-DD-1-2	6	$4,791.42	$4,791.42
2	1.00 EA	B10110-000 VALVE REMOVAL PLUG, 1-1/2 SHARP VEE, SOLID	6	$18.36	$18.36
3	2.00 EA	495175-008 FLANGE, COMPANION, 2-1/16 5M X 2 LP, 6A-LU-DD/EE-NL-2	6	$105.47	$210.94
4	2.00 EA	066398-001 BULL PLUG, XXH, 2 LP X 4 LG, TAPPED 1/2 LP, 4130 75K	6	$17.49	$34.98
5	1.00 EA	A11245-001 FITTING, BODY GREASE, 1/2 LP, CS	6	$18.11	$18.11
6	1.00 EA	564630-DB1 VALVE, MODEL 510, 2-1/16 5M, FE, DD-NL TRIM, 6A-LU-DD-2-1-NL	6	$622.70	$622.70
7	3.00 EA	050193-000 RING GASKET, API R-24	6	$5.10	$15.30
8	8.00 EA	345899-001 STUD W/TWO NUTS, 7/8 9UNC X 6-1/2 LG, A193 B7, CAD PLATED	6	$3.53	$28.24

Estimates

1/17/2017 2:46:30PM

Confidential

Estimate	Terms	Customer Quote	Quote Date	Expiration Date	Salesperson	Cust Curr
HO00002752	Net 30		1/13/2017	3/14/2017	TStavley	USD

COLine	Quantity	Item	Lead Time (Weeks)	Unit Price	Extended Price
9	1.00 EA	050462-000 RING GASKET, API BX-160	6	$40.90	$40.90
10	16.00 EA	B14050-000 STUD W/TWO NUTS, 1-5/8 8UN X 12-3/4 LG, A193 B7, CAD PLATED	6	$38.80	$620.80
11	1.00 EA	A18106-007 CASING HANGER, SMB-22, 13-5/8 NOM, 9-5/8 BC BOX BTM X 10.500-4 STUB ACME-2G-LH PIN TOP, 9.62 OD SLICK NECK, 8.81 BORE, 6A-LU-DD-2-1, GP1	6	$858.94	$858.94
12	1.00 EA	A18297-001 SEAL ASSEMBLY, SMB-22, 13-5/8 NOM X 9-5/8 CSG, 9-5/8 SINGLE IPS & 12.625 RH 4TPI STUB ACME PIN TOP, 6A-U-DD-1-1	6	$1,481.50	$1,481.50

CASING SPOOL ASSEMBLY

Sale Amount:	8,742.19
Order Disc (0.00%):	0.00
Sales Tax:	677.50
Misc Charges:	0.00
Total Amount:	$9,419.69

1/17/2017 2:46:30PM

Confidential

Estimate	Terms	Customer Quote	Quote Date	Expiration Date	Salesperson	Cust Curr
HO00002752	Net 30		1/13/2017	3/14/2017	TStavley	USD

Customer Stamp / Signature:

Authorized Signature

Estimates

1/17/2017 2:46:30PM

Confidential

Seaboard International Inc
P.O. Box 450989
Houston TX 77245-0989

Warehouse: ODES

Customer: MA02100
PATRICK WALSH
MATADOR PRODUCTION COMPANY
5400 Lbj Fwy Ste 1500
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USA

Estimate	Terms	Customer Quote	Quote Date	Expiration Date	Salesperson	Cust Curr
HO00002753	Net 30		1/13/2017	3/14/2017	TStavley	USD

COLine	Quantity	Item	Lead Time (Weeks)	Unit Price	Extended Price
1	1.00 EA	A33506-001 TUBING HEAD, S-8, 13-5/8 5M X 7-1/16 10M, TWO 1-13/16 10M STD OUTLETS, 1-13/16 VRP & 5-1/2 DBL FS-JW SEAL PREP (.835/.850 GRV WIDTH), 5.00 BORE, 17-4PHSS LOCKSCREWS, 6A-PU-EE-0.5-2-2	6	$6,337.17	$6,337.17
2	1.00 EA	455635-000 VALVE REMOVAL PLUG, 1-1/4 LP, SOLID	6	$23.71	$23.71
3	2.00 EA	495700-005 FLANGE, COMPANION, 1-13/16 10M X 2 LP, F/5M SERVICE, 6A-LU-EE-NL-2	6	$103.74	$207.48
4	1.00 EA	346874-DB2 VALVE, MODEL 1745, 1-13/16 10M, FE, EE TRIM, 6A-LU-EE-0.5-2-1, MONOGRAMMED	6	$1,438.40	$1,438.40
5	1.00 EA	A29180-100 ADAPTER, FH, 1-13/16 10M FLG X 2 FIG 1502 FEMALE, F/10M SERVICE, 5.00 LG, C/W HAMMER NUT, BLIND MALE SUB & SNAP RING, TAPPED 1/2 LP, 6A-U-DD-1-1	6	$361.93	$361.93
6	2.00 EA	346874-DB2 VALVE, MODEL 1745, 1-13/16 10M, FE, EE TRIM, 6A-LU-EE-0.5-2-1, MONOGRAMMED	6	$1,438.40	$2,876.80
7	1.00 EA	A29180-100 ADAPTER, FH, 1-13/16 10M FLG X 2 FIG 1502 FEMALE, F/10M SERVICE, 5.00 LG, C/W HAMMER NUT, BLIND MALE SUB & SNAP RING, TAPPED 1/2 LP, 6A-U-DD-1-1	6	$372.00	$372.00

Confidential

Estimate	Terms	Customer Quote	Quote Date	Expiration Date	Salesperson	Cust Curr
HO00002753	Net 30		1/13/2017	3/14/2017	TStavley	USD

COLine	Quantity	Item	Lead Time (Weeks)	Unit Price	Extended Price
8	5.00		6	$2.93	$14.65
	EA	050352-000			
		RING GASKET, API BX-151			
9	24.00		6	$2.44	$58.56
	EA	345484-WSC			
		STUD W/TWO NUTS, 3/4 10UNC X 5-1/2 LG, A193 B7, CAD PLATED			
10	1.00		6	$40.90	$40.90
	EA	050462-000			
		RING GASKET, API BX-160			
11	16.00		6	$38.80	$620.80
	EA	B14050-000			
		STUD W/TWO NUTS, 1-5/8 8UN X 12-3/4 LG, A193 B7, CAD PLATED			
12	1.00		6	$1,199.02	$1,199.02
	EA	A20385-011			
		CASING HANGER, S-22, 13-5/8 X 5-1/2, W/ADDITONAL WT CAPACITY BOTTOM PLATE, F/USE IN SMB-22 SUPPORT BUSHING			
13	1.00			$0.00	$0.00
	EA	SA-H-TH-SSO			
		TUBING HEAD, STUDDED SIDE OUTLET			

TUBING HEAD ASSEMBLY

Sale Amount:	13,551.42
Order Disc (0.00%):	0.00
Sales Tax:	1,050.24
Misc Charges:	0.00
Total Amount:	$14,601.66

Estimates

1/17/2017 2:46:30PM

Confidential

Estimate	Terms	Customer Quote	Quote Date	Expiration Date	Salesperson	Cust Curr
HO00002753	Net 30		1/13/2017	3/14/2017	TStavley	USD

Customer Stamp / Signature:

Authorized Signature

Estimates

1/17/2017 2:46:30PM

Confidential

Seaboard International Inc
P.O. Box 450989
Houston TX 77245-0989

Warehouse: ODES

Customer: MA02100
PATRICK WALSH
MATADOR PRODUCTION COMPANY
5400 Lbj Fwy Ste 1500
ONE LINCOLN CENTER
Dallas TX 75240-1017
USA
Phone: (972) 371-5200
Fax: (972) 371-5201

MATADOR PRODUCTION COMPANY
5400 Lbj Fwy Ste 1500
ONE LINCOLN CENTER
Dallas TX 75240-1017
USA

Estimate	Terms	Customer Quote	Quote Date	Expiration Date	Salesperson	Cust Curr
HO00002754	Net 30		1/13/2017	3/14/2017	TStavley	USD

COLine	Quantity	Item	Lead Time (Weeks)	Unit Price	Extended Price
1	1.00 EA	398530-000 CASING HANGER, S-21, 13-5/8 X 9-5/8	6	$1,132.44	$1,132.44
2	1.00 EA	A18388-001 SEAL ASSEMBLY, SMB-22 EMERGENCY, 13-5/8 NOM X 9-5/8 CSG, 9-5/8 SINGLE IPS & 12.625 RH 4TPI STUB ACME PIN TOP, 14.70 LG	6	$2,663.23	$2,663.23

Sale Amount:	3,795.67
Order Disc (0.00%):	0.00
Sales Tax:	294.16
Misc Charges:	0.00
Total Amount:	$4,089.83

Estimates

1/17/2017 2:46:30PM

Confidential

Estimate	Terms	Customer Quote	Quote Date	Expiration Date	Salesperson	Cust Curr
HO00002754	Net 30		1/13/2017	3/14/2017	TStavley	USD

Customer Stamp / Signature:

Authorized Signature

Service Order Estimate

1/13/2017 2:22:59PM

Confidential

Seaboard International Inc
P.O. Box 450989
Houston TX 77245-0989

SRO: Q000000856
Estimate Date: 01/13/2017
Valid Thru:
Warehouse: ODES
Customer PO:
AFE #:

Bill To: MA02100
MATADOR PRODUCTION COMPANY
5400 Lbj Fwy Ste 1500
ONE LINCOLN CENTER
Dallas TX 75240-1017
USA

Ship To: 0
MATADOR PRODUCTION COMPANY
5400 Lbj Fwy Ste 1500
ONE LINCOLN CENTER
Dallas TX 75240-1017
USA

ITEM	QTY	PART NUMBER / DESCRIPTION	NET PRICE	EXT PRICE
		RENTAL BASED ON A PER WELL BASIS		1,015.00
		FLAT RATE RENTAL FOR THE FOLLOWING EQUIPMENT @ $1,015.00		
1	1.00	A31330-001 WEAR BUSHING, S-22, 20 NOMINAL, WL-2 SLOT RETRIEVABLE (19.56), 18.00 BORE, W/WEAR SLEEVE RETENTION GROOVE		
2	1.00	A31331-001 TEST PLUG/RETRIEVING TOOL, S-22, 20-3/4 NOM X 4-1/2 API IF BOX TOP & BTM X 3/4 LP BYPASS, 18.62 LG, WL-2 LUG RETRIEVER (19.48, RH RELEASE)		
3	1.00	A31186-001 WEAR BUSHING, S-22, 13-5/8 NOMINAL, WL-2 SLOT RETRIEVABLE (12.88), 12.37 BORE, W/WEAR SLEEVE RETENTION GROOVE		
4	1.00	a33256-001 TEST PLUG/RETRIEVING TOOL, S-22, 13-5/8 NOM X 4-1/2 API IF BOX TOP & BTM X 3/4 LP BYPASS & DOVETAIL SEALS, 18.00 LG, WL-2 LUG RETRIEVER (12.85, RH RELEASE)		
5	1.00	A28305-001 WEAR BUSHING, SMB-22, 13-5/8 NOMINAL, WL-2 SLOT RETRIEVABLE (12.88), 12.38 BORE, 28.07 LG W/WEAR SLEEVE RETENTION GROOVE, (F/FLG TOP)		
6	1.00	A18108-004 RUNNING TOOL, SMB-22 CASING HANGER, 13-5/8 NOM, 10.500-4 STUB ACME-2G-LH BOX BTM X 9-5/8 BC BOX TOP		
7	1.00	A18326-001 RUNNING TOOL ADAPTER, SMB-22 SEAL ASSEMBLY, 13-5/8 NOM, 12.625 RH 4TPI STUB ACME BOX X 10.50 LH 4TPI STUB ACME PIN, 7.00 LG, 9.00 MIN BORE		

Freight:	0.00
Misc Charges:	0.00
Matl:	1,015.00
Labor:	0.00
Misc:	0.00
Project:	0.00
Sales Tax:	0.00
Sales Tax 2:	0.00
Sub Total:	1,015.00
Discount:	0.00
Total:	1,015.00

Service Order Estimate

1/13/2017 2:22:59PM

Confidential

Seaboard International Inc
P.O. Box 450989
Houston TX 77245-0989

SRO: Q000000856
Estimate Date: 01/13/2017
Valid Thru:
Warehouse:
Customer PO:
AFE #:

Bill To: MA02100
MATADOR PRODUCTION COMPANY
5400 Lbj Fwy Ste 1500
ONE LINCOLN CENTER
Dallas TX 75240-1017
USA

Ship To: 0
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USA

Customer Stamp / Signature:

THIS DOCUMENT CONTAINS PROVISIONS RELATIVE TO INDEMNITY, RELEASE OF LIABILITY AND ALLOCATION OF RISK

1. **Applicable Terms.** These terms govern the purchase and sale and/or rental of the equipment and related services, if any (collectively, "Equipment"), referred to in Seaboard International Inc. dba Weir Seaboard's ("Company") purchase order, quotation, proposal, invoice or acknowledgment, as the case may be ("Company's Documentation"). Whether these terms are included in an offer or an acceptance by Company, such offer or acceptance is conditioned on Customer's assent to these terms. Company rejects all additional or different terms in any of Customer's forms or documents.

2. **Payment.** Customer shall pay Company the full purchase price as set forth in Company's quote or proposal. Freight, storage, insurance and all taxes, duties or other governmental charges relating to the Equipment shall be paid by Customer. All payments are due net-30 days after invoice. Customer shall be charged the lower of 1 ½% interest per month or the maximum legal rate on all amounts not received by the due date and shall pay all of Company's reasonable costs (including attorneys' fees) of collecting amounts due but unpaid. All orders are subject to credit approval.

3. **Delivery.** Delivery of the Equipment shall be in material compliance with the schedule in Company's quote or proposal. Unless Company's Documentation provides otherwise, Delivery terms are F.O.B. Company's facility.

4. **Ownership of Materials.** All devices, designs (including drawings, plans and specifications), estimates, prices, notes, electronic data and other documents or information prepared or disclosed by Company, and all related intellectual property rights, shall remain Company's property. Company grants Customer a non-exclusive, non-transferable license to use any such material solely for Customer's use of the Equipment. Customer shall not disclose any such material to third parties without Company's prior written consent.

5. **Changes.** Company shall not implement any changes in the scope of work described in Company's Documentation unless Customer and Company agree in writing to the details of the change and any resulting price, schedule or other contractual modifications. This includes any changes necessitated by a change in applicable law occurring after the effective date of any contract including these terms.

6. **Warranty.** Subject to the following sentence, Company warrants to Customer that the Equipment shall materially conform to the description in Company's Documentation and shall be free from defects in material and workmanship. (a) Products manufactured by Company - Company warrants that the goods it manufactures will be free of defects in workmanship or materials. The warranty period twelve (12) months from the date of installation of the good or eighteen (18) months from the date of shipment, whichever occurs first ("Warranty Period"); Services shall be warranted for twelve (12) months after the services are performed ("Warranty Period"). The warranty period for goods will begin upon shipment or installation and for services upon the date of the service. (b) Products Manufactured by Others – The company does not warrant products manufactured by other businesses, whether sold as separate items or incorporated into another product sold by the company. The customer agrees to rely solely upon warranties of these items provided by the manufacturer. A copy of the warranty given by each manufacturer will be made available to the customer upon written request. (c) Rental Equipment - Company warrants that the equipment will be in working condition. (d) Resale - Customer agrees that in the event of any resale of products purchased from the Company, Customer will make the sale subject to these limited warranties and remedies and agrees to indemnify and hold Company harmless from any claim, loss, or damage, including attorney's fees and expenses, resulting from a breach of this duty. (e) Used products - All used products sold "as is" by the company and are without any warranties. (f) Customer's design specs - Items to be manufactured in accordance with the customer's plans and/or specifications will be manufactured as required by generally accepted manufacturing practices. The customer shall be responsible for the design, plans, and specifications of the items purchased and agrees to indemnify and hold Company harmless from any claims, loss or damage, including attorney's fees and expenses, resulting from any claim for damages concerning or relating to the design or design defects, and from any claims of damages for patent infringement. (g) Unauthorized alterations or repairs made to the goods will void the warranty. Also, if a good is found to have been used in any way beyond its design specifications the warranty will also be void. (i) Exclusions - The following are specifically not covered under warranty: Preventative maintenance items such as specified adjustments, loose fittings, and lubrication; seals, plungers, valving or packing materials in equipment exposed to corrosive fluids or unusual temperatures and/or pressures; damage from abuse, accident, neglect, or failure to follow the specified preventative maintenance program or operating instructions; any work performed on the good during the warranty period without Company's approval; normal wear and tear, and shipping damage (claims must be made with freight carrier; Customer has a duty to inspect all equipment at the point of delivery to the freight carrier).**THE WARRANTIES SET FORTH IN THIS SECTION ARE COMPANY'S SOLE AND EXCLUSIVE WARRANTIES AND ARE SUBJECT TO SECTION 11 BELOW. COMPANY MAKES NO OTHER WARRANTIES OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR PURPOSE.**

7. **Force Majeure.** Neither Company nor Customer shall have any liability for any breach (except for breach of payment obligations) caused by extreme weather or other act of God, strike or other labor shortage or disturbance, fire, accident, war or civil disturbance, delay of carriers, failure of normal sources of supply, act of government or any other cause beyond such party's reasonable control.

8. **Cancellation.** If Customer cancels or suspends its order for any reason other than Company's breach, Customer shall promptly pay Company for work performed prior to cancellation or suspension and any other direct costs incurred by Company as a result of such cancellation or suspension, including costs reasonably incurred for any items that had to be pre-ordered in order for the Work to be completed in a timely manner. Customer understands that Company has a lead time of one hundred twenty days (120) and therefore costs reasonably incurred for early cancellation or suspension may include costs for items ordered one hundred twenty (120) days in advance.

9. **Terms Applicable to Rental Equipment:** If Customer rents any equipment from Company than the following clauses shall apply (a) Customer will exercise care in the use and operation of the Equipment. Regular production and operation data shall be provided to Company upon Company's request. Customer agrees not to adjust the operational parameters (ex. overload, underload, or restart settings, etc.) without agreement of Company, (b) During the period commencing on the delivery of the Rental Equipment to Customer and ending on the date that Customer returns the Equipment to Company, Customer will bear the responsibility of all damage to or loss of the Equipment except for normal wear, as determined by Company based upon data provided by the Customer, and Company's evaluations made pursuant to standard dismantle and inspection procedures. Damages to the Equipment determined to be caused by parted tubing, casing problems, well or operating conditions or Customer operating equipment outside of specified parameters or standard industry operating procedures, resulting in the loss or damage of the Equipment, will be billed to Customer at replacement costs as established in Company's published pricing and(c) Customer agrees not to sell, assign, let, transfer, mortgage, charge, part with or loose possession of the Rental Equipment. Title of rental equipment shall remain with Company at all times.

10. **INDEMNIFICATION. "Customer Group" means Customer, Customer's contractors and their subcontractors (other than Company and Company's subcontractors), Customer's affiliates, joint interest owners and Customer's invitees, and the shareholders, officers, directors, employees, agents, consultants, servants, and insurers of all of the foregoing. "Company Group" means Company, Company's subcontractors, affiliates, participants, and Company's invitees, and the shareholders, officers, directors, employees, agents, consultants, servants, and insurers of all of the foregoing.**

Customer Group shall indemnify and defend Company Group from claims arising out of personal injury, illness, death, or property loss or damage suffered by any member of Customer Group; and from and against any and all claims arising out of personal injury, illness, death, or damage to tangible property suffered by third parties, to the extent attributable to the negligence or gross negligence of any member of Customer Group. Property that has been rented to or consigned to Customer by Company and is not being operated by Company shall be considered property of Customer for purposes of this entire section.

Company Group shall defend and indemnify Customer Group from claims arising out of personal injury, illness, death, or property loss or damage suffered by any member of Company Group; and from and against any and all claims arising out of personal injury, illness, death, or damage to tangible property suffered by third parties, to the extent attributable to the negligence or gross negligence of any member of Company Group.

Regardless of cause, Customer shall perform all fishing to recover down hole equipment at its expense and shall reimburse Company for the costs of repair or replacement, whichever is less, of any equipment lost or damaged. Except Claims arising out of personal injury, illness, death, or property loss or damage suffered by any member of Company Group, Customer shall, regardless of cause (including gross negligence), indemnify and defend Company from claims arising from (i) loss of or damage to any well or hole or any third party oil and gas production facilities; (ii) reservoir seepage or pollution originating underground or above-ground or from the property of the Customer or third party howsoever arising; (iii) blow-out, fire, explosion, cratering of any well or reservoir or any other uncontrolled well condition (including the costs to control a wild well and the removal of debris); (iv) damage to, or escape of, product or substance from any facility, including any pipeline or other subsurface facility, and (v) loss of any property rights in and to any oil, gas, water, or other mineral substance.

In the event that Customer rents equipment from Company that does not include any of Company's personnel to operate, Customer will upon delivery by Company to Customer's location or pick up by Customer and continuing until such time as the equipment is returned to Company's yard or picked up by Company at Customer's location, such equipment shall be deemed to be in the care, custody and control of Customer. Risk of loss of or damage to such equipment shall pass to Customer upon its delivery and shall remain with Customer until its return. During this period, Customer shall assume all obligations and liability concerning the equipment, and for its safe use, maintenance, operation, condition, and storage, including without limitation, liability (a) for the loss, theft, destruction or damage to the equipment (or any part thereof) and (b) for all other risks and liabilities, including without limitation, the death of or injury to any person or property of Customer or another, arising from the use, operation, condition, possession, or storage of the equipment from any cause whatsoever. Customer shall pay Company at the replacement value of new equipment of like quality for any equipment which is lost, stolen, destroyed or damaged.

Customer and Company agree to support their indemnity obligations by liability insurance coverage subject to the following: a party's mutual indemnity obligation will be limited to the extent of that party's insurance coverage, dollar limits of insurance, or qualified self-insurance that party as obtained for the benefit of the other party. With respect to a unilateral indemnity obligation, the amount of required insurance may not exceed $500,000.

11. **LIMITATION OF LIABILITY.** NOTWITHSTANDING ANYTHING ELSE TO THE CONTRARY, COMPANY SHALL NOT BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL, SPECIAL, PUNITIVE OR OTHER INDIRECT DAMAGES, AND COMPANY'S TOTAL LIABILITY ARISING AT ANY TIME FROM THE SALE OR USE OF THE EQUIPMENT SHALL NOT EXCEED THE PURCHASE PRICE PAID FOR THE EQUIPMENT. THESE LIMITATIONS APPLY WHETHER THE LIABILITY IS BASED ON CONTRACT, TORT, STRICT LIABILITY OR ANY OTHER THEORY.

12. **Governing Law:** These terms are governed by and subject to the laws of the State of Texas (excluding any conflict-of-laws provisions that may cause the laws of another jurisdiction to apply, and further excluding the United Nations Convention on Contracts for the International Sale of Goods if otherwise applicable). Any provision required to be included in a contract of this type by any applicable law or administrative regulation having the effect of law shall be deemed to be incorporated herein.

13. **Waiver:** Forbearance or failure of the Company to enforce any of these conditions or to exercise any right will not affect or impair its rights, nor shall such forbearance be deemed a waiver of it rights in the event of a future default by Customer.

Agreed to on this date

DATE_____SIGNED_____TITLE_____

RETURN COMPLETED APPLICATION TO: Seaboard International, Inc. dba Weir Seaboard 13815 SOUTH FREEWAY, HOUSTON, TEXAS 77047

Matador Production Company **DRILL PLAN PAGE 1**
Leatherneck Fed Com 132H
SHL 1540' FNL & 236' FWL Sec. 30
BHL 1981' FNL & 240' FEL Sec. 29
T. 20 S., R. 29 E., Eddy County, NM

Drilling Program

1. ESTIMATED TOPS

Formation Name	MD	TVD	Bearing
Quaternary Alluvium Deposits	0	0	water
Rustler anhydrite	440	440	N/A
Yates carbonate	794	794	N/A
Capitan Reef	1225	1225	water
Cherry Canyon sandstone	2983	2975	hydrocarbons
Brushy Canyon sandstone	4063	4044	hydrocarbons
Bone Spring limestone	5643	5615	hydrocarbons
Upper Avalon Shale	5889	5861	hydrocarbons
Avalon Carbonate	6054	6023	hydrocarbons
Lower Avalon Shale	6253	6221	hydrocarbons
1st Bone Spring carbonate	6359	6327	hydrocarbons
1st Bone Spring sandstone	6827	6795	hydrocarbons
2nd Bone Spring carbonate	7063	7031	hydrocarbons
(KOP	**8532**	**8501**	**hydrocarbons)**
2nd Bone Spring sandstone	7455	7423	hydrocarbons
3rd Bone Spring carbonate	7856	7824	hydrocarbons
3rd Bone Spring sandstone	8707	8673	**goal**
TD	**19040**	**9079**	-

2. NOTABLE ZONES

3rd Bone Spring sandstone is the goal. Hole will extend east of the last perforation point to allow for pump installation. All perforations will be ≥330' from the dedication perimeter. Closest water well (C 00936) is approximately 3850' northeast. Water bearing strata depths were not reported for the 70' deep well. OSE estimated ground water depth at this location is 68'.

3. PRESSURE CONTROL

Equipment

A 12,000' 5000-psi BOP stack consisting of 3 rams with 2 pipe rams, 1 blind ram, and 1 annular preventer will be used below surface casing to TD. See attached BOP, choke manifold, co-flex hose, and speed head 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.

Testing Procedure

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

A third party company will test the BOPs.

After setting surface casing, and before drilling below the surface casing shoe, BOPE will be tested to 250 psi low and 2000 psi high. Annular will be tested to 250 psi low and 1000 psi high. After setting 9-5/8" casing, pressure tests will be made to 250 psi low and 5000 psi high. Annular will be tested to 250 psi low and 2500 psi high.

Variance Request

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. Manufacturer does not require the hose to be anchored. If the specific hose is not available, then one of equal or higher rating will be used.

Matador is requesting a variance to use a speed head for setting the intermediate (9-5/8") casing. In the case of running a speed head with landing mandrel for 9-5/8" casing, BOP test pressures after setting surface casing will be 250 psi low and 5000 psi high. Annular will be tested to 250 psi low and 2500 psi high before drilling below the surface shoe. The BOPs will not be tested again unless any flanges are separated. A diagram of the speed head is attached.

4. CASING & CEMENT

All casing will be API and new. See attached casing assumption worksheet.

Hole O. D.	Set MD	Set TVD	Casing O. D.	Weight (lb/ft)	Grade	Joint	Collapse	Burst	Tension
26"	0 – 400	0 - 400	20" surface	94	J-55	BTC	1.125	1.125	1.8
17.5"	0 - 1200	0 - 1200	13.375" inter. 1	54.5	J-55	BTC	1.125	1.125	1.8
12.25"	0 - 3100	0 - 3092	9.625" inter. 2	40	J-55	BTC	1.125	1.125	1.8
8.75"	0 – 19040	0 – 9079	5.5" prod.	20	P-110	DWC/C	1.125	1.125	1.8

Name	Type	Sacks	Yield	Cu. Ft.	Weight	Blend
Surface	Lead	892	1.35	1204	14.8	Class C + 5% NaCl + LCM
TOC = 0'		100% Excess			Centralizers per Onshore Order 2.III.B.1f	
Intermediate 1	Lead	619	1.78	1102	13.5	Class C + Bentonite + 1% $CaCl_2$ + 8% NaCl + LCM
	Tail	309	1.35	417	14.8	Class C + 5% NaCl + LCM
TOC = 0'		100% Excess			2 on btm jt, 1 on 2nd jt, 1 every 4th jt to surface	
Intermediate 2	Lead	695	1.78	1237	13.5	Class C + Bentonite + 2% CaCL2 + 3% NaCl + LCM
	Tail	288	1.35	389	14.4	Class C + 5% NaCl + LCM
TOC = 0'		100% Excess			2 on btm jt, 1 on 2nd jt, 1 every 4th jt to surface	
Production	Lead	788	2.25	1773	11.5	TXI + Fluid Loss + Dispersant + Retarder + LCM
	Tail	2907	1.35	3924	13.2	TXI + Fluid Loss + Dispersant + Retarder + LCM
TOC = 1175'		35% Excess			2 on btm jt, 1 on 2nd jt, 1 every 5th jt to top of tail cement (1000' above TOC)	

Variance Request

Matador requests the option to run a DV tool with annular packer as contingency in the intermediate 2 section on 9-5/8" casing if lost circulation is encountered. If losses occur the DV tool with packer will be placed at least 100' above the loss zone to give the option to pump cement as either a single stage or two stage.

Example:
Assuming DV tool is set at 1500' MD but if the setting depth changes, cement volumes will be adjusted proportionately.

Stage 1:

Lead	695	1.78	13.5	Class C + Bentonite + 2% CaCL2 + 3% NaCl + LCM
Tail	288	1.35	14.4	Class C + 5% NaCl + LCM
100% excess, TOC = 0' MD				

Stage 2:

Lead	350	1.78	13.5	Class C + Bentonite + 2% CaCL2 + 3% NaCl + LCM
100% excess, TOC = 0' MD				

5. MUD PROGRAM

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

Type	Interval (MD)	lb/gal	Viscosity	Fluid Loss
fresh water spud	0 - 400	8.4	28	NC
brine water	400 - 1200	10.0	30-32	NC
fresh water	1200 - 3100	8.4-8.6	28-30	NC
fresh water & cut brine	3100 - 19040	9.0	30-32	NC

6. CORES, TESTS, & LOGS

No core or drill stem test is planned.

A 2-person mud logging program will be used from ≈3,100' 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 ≈4,523 psi. Expected bottom hole temperature is ≈150° F.

In accordance with Onshore Order 6, Matador does not anticipate that there will be enough H_2S from the surface to the Bone Spring to meet the BLM's minimum requirements for the submission of 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 may 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.

DVT Tool Variance Request

Matador requests the option to run a DV tool with annular packer as contingency in the intermediate 2 section on 9-5/8" casing if lost circulation is encountered. If losses occur the DV tool with packer will be placed at least 100' above the loss zone to give the option to pump cement as either a single stage or two stage.

Example:
Assuming DV tool is set at 1500' MD but if the setting depth changes, cement volumes will be adjusted proportionately.

Stage 1:

Lead	695	1.78	13.5	Class C + Bentonite + 2% CaCL2 + 3% NaCl + LCM
Tail	288	1.35	14.4	Class C + 5% NaCl + LCM
100% excess, TOC = 0' MD				

Stage 2:

Lead	350	1.78	13.5	Class C + Bentonite + 2% CaCL2 + 3% NaCl + LCM
100% excess, TOC = 0' MD				

Matador Production Company

Leatherneck Fed
Water & Gravel Source Map

Eddy County, New Mexico

Leatherneck Well Pads

1:65,000

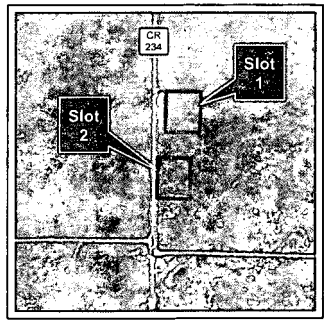
0 0.5 1 2
Miles

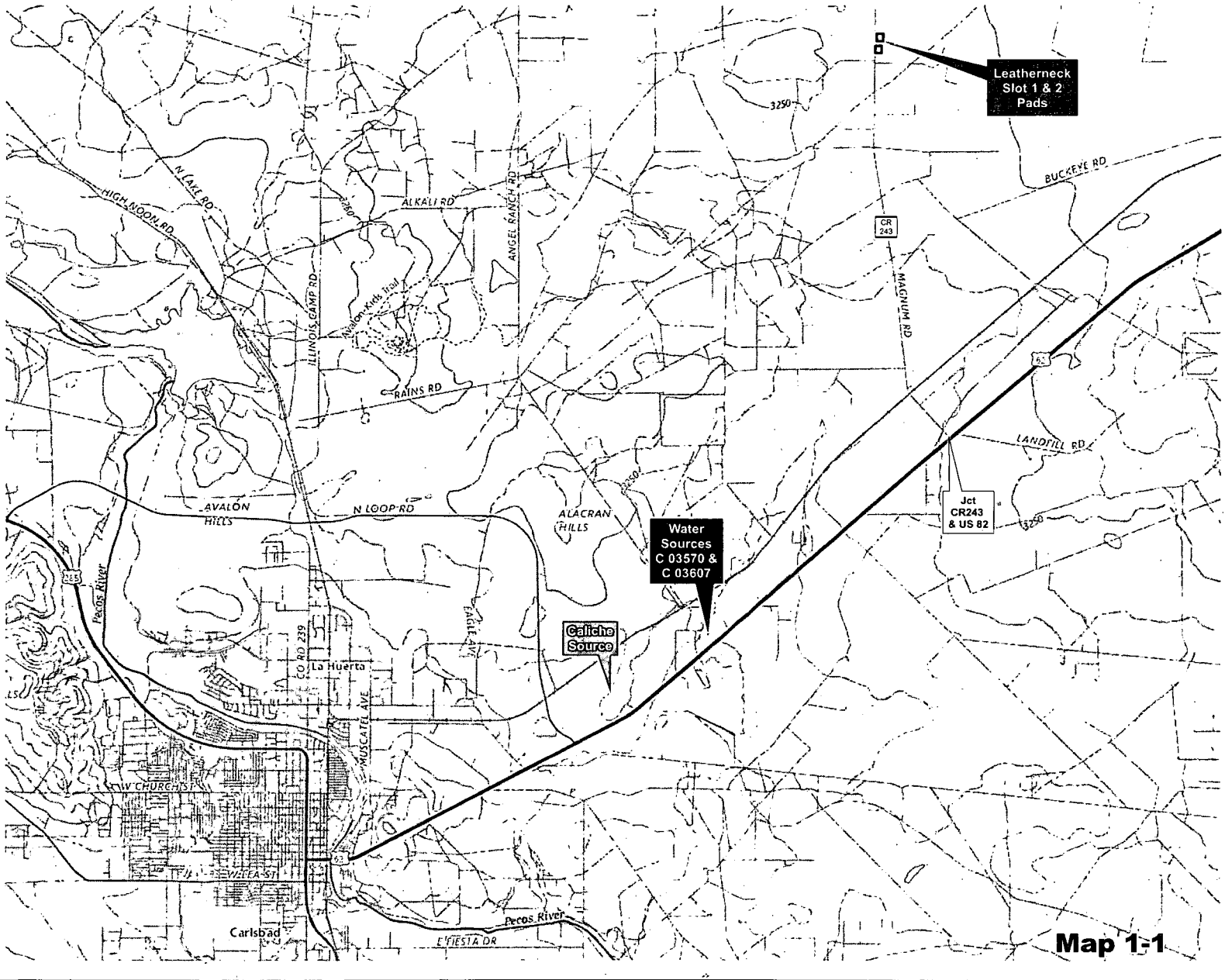
N

NAD 1983 New Mexico State Plane East
FIPS 3001 Feet

PERMITS WEST

Prepared by Permits West, Inc., May 2, 2018
for Matador Production Company





Map 1-1

Matador Production Company

Leatherneck Fed
Slot 1: 121H, 131H, 201H, & 221H
Slot 2: 122H, 132H, 202H, & 222H
Well Pad & Access Road Map

Sections 29 & 30, T.20S, R.29E
Eddy County, New Mexico

- Proposed Surface Hole Location
- Proposed Well Bore Path
- Proposed Access Road
- Proposed Well Pad
- Matador Lease Line

1:1,500

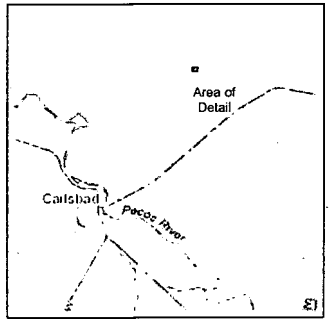
0 75 150 300
Feet

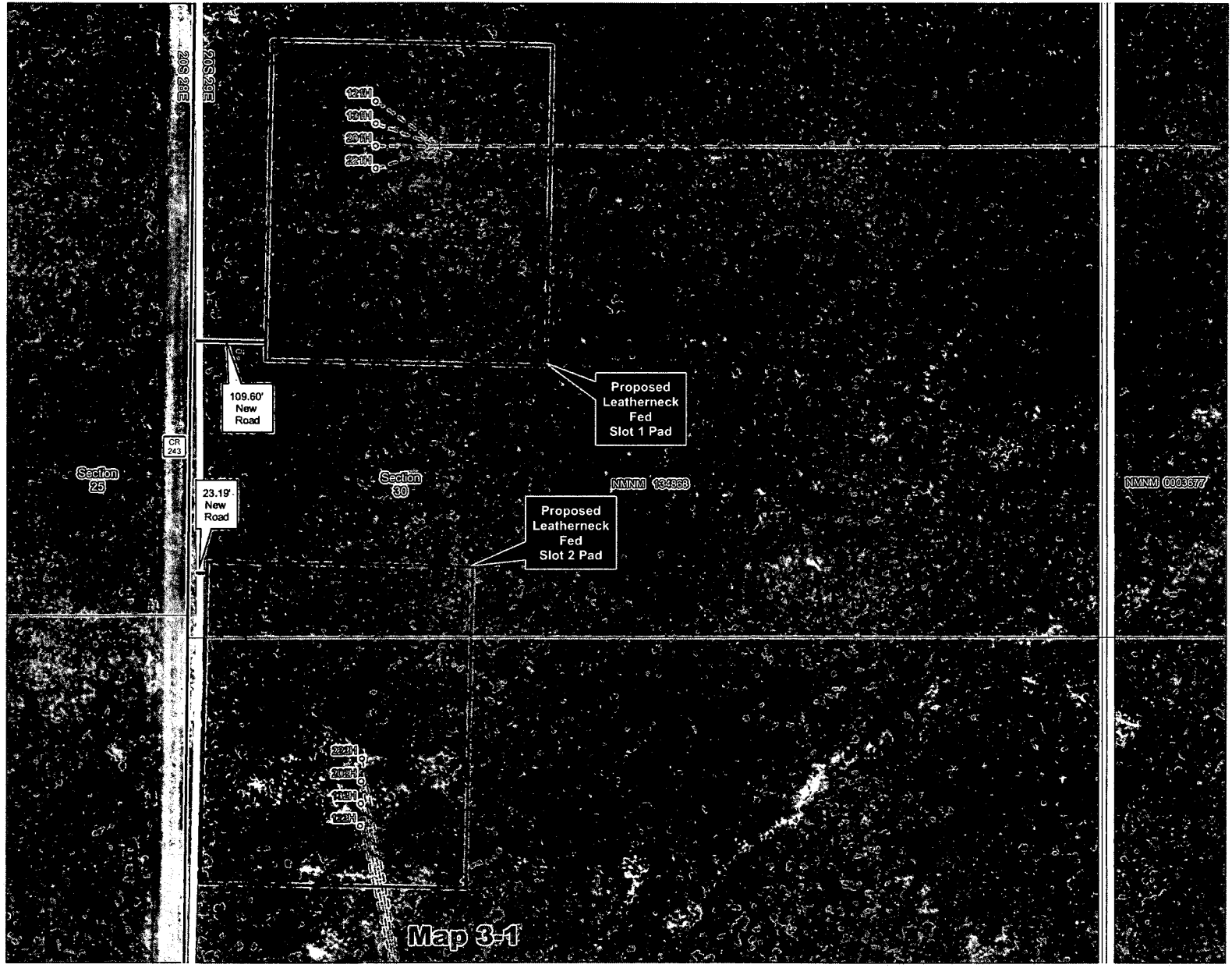
N

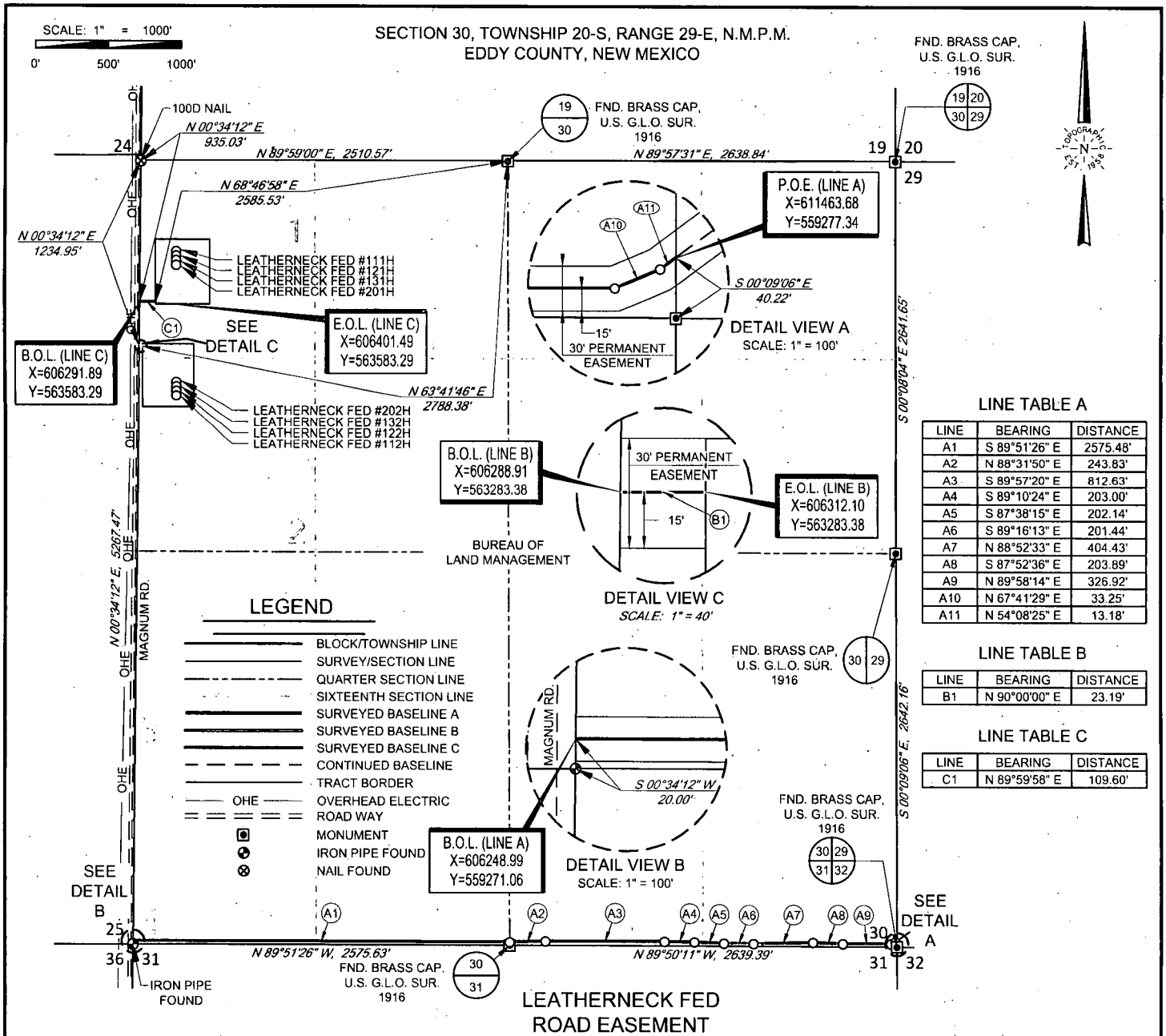
NAD 1983 New Mexico State Plane East
FIPS 3001 Feet

PERMITS WEST, INC.

Prepared by Permits West, Inc., May 2, 2018
for Matador Production Company







LINE TABLE A

LINE	BEARING	DISTANCE
A1	S 89°51'26" E	2575.48'
A2	N 88°31'50" E	243.83'
A3	S 89°57'20" E	812.63'
A4	S 89°10'24" E	203.00'
A5	S 87°38'15" E	202.14'
A6	S 89°16'13" E	201.44'
A7	N 88°52'33" E	404.43'
A8	S 87°52'36" E	203.89'
A9	N 89°58'14" E	326.92'
A10	N 67°41'29" E	33.25'
A11	N 54°08'25" E	13.18'

LINE TABLE B

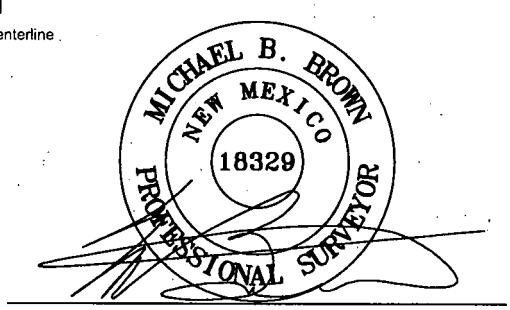
LINE	BEARING	DISTANCE
B1	N 90°00'00" E	23.19'

LINE TABLE C

LINE	BEARING	DISTANCE
C1	N 89°59'58" E	109.60'

LEATHERNECK FED ROAD EASEMENT

Being three proposed road easements being 30 feet in width, 15 feet left, and 15 feet right of the above platted centerline total line footage containing 5352.98 feet or 324.42 rods, containing 3.69 acres more or less.



Michael Blake Brown, P.S. No. 18329
MAY 12, 2017

Matador PRODUCTION COMPANY

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

LEATHERNECK FED ROAD EASEMENT	REVISION:	
	GLH	05/12/17
DATE: 04/17/17		
FILE: EP_LEATHERNECK_FED_ROAD_SEC_30_REV1		
DRAWN BY: GLH		
SHEET: 1 OF 1		

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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 PRODUCTION CO. 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.
4. P.O.B./B.O.L. = POINT OF BEGINNING/BEGINNING OF LINE
5. P.O.E./E.O.L. = POINT OF EXIT/END OF LINE

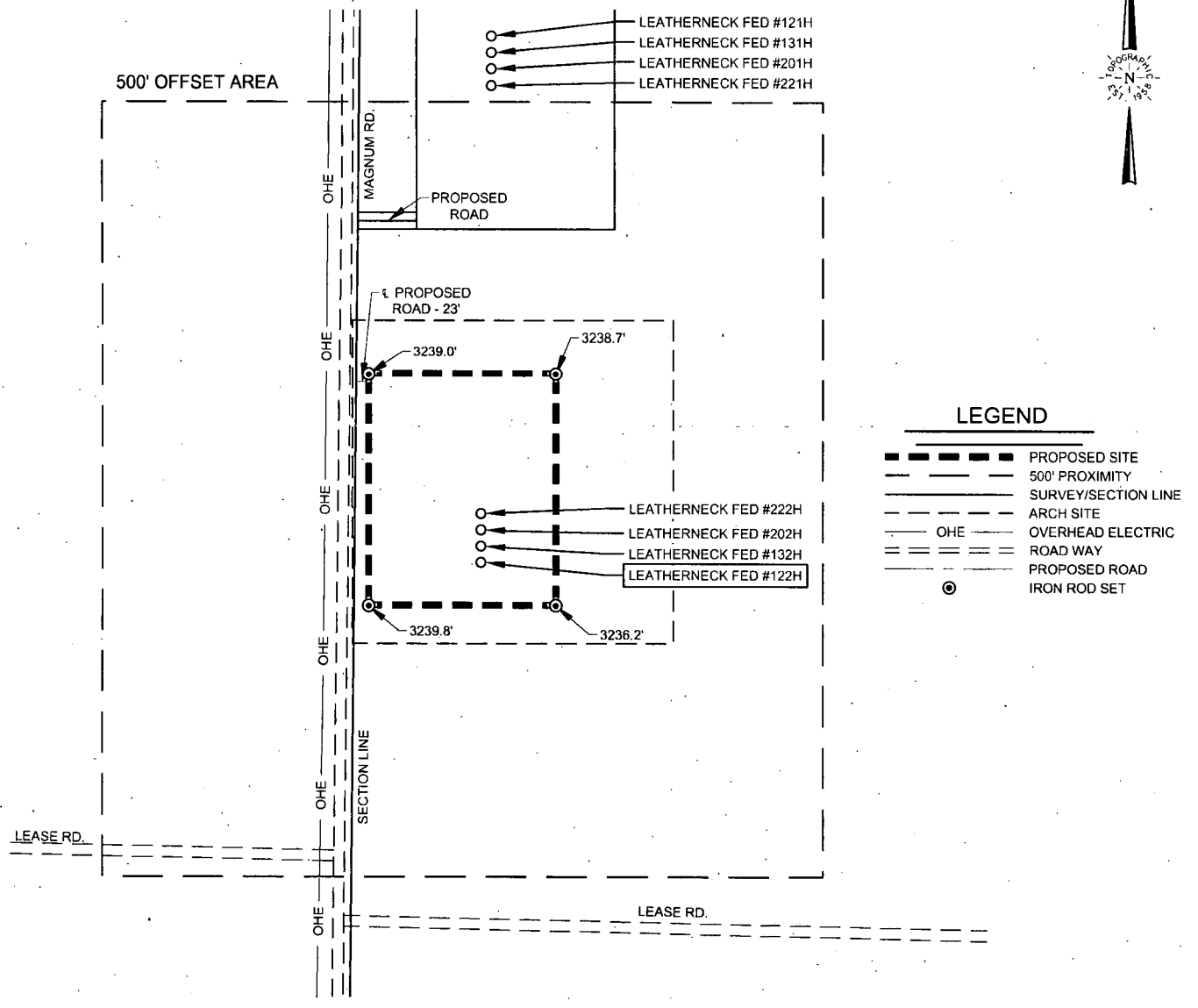
Map 3-2

S:\SURVEY\MATADOR_RESOURCES\LEATHERNECK_FED_ROAD_EASEMENT\FINAL_PRODUCTS\EP_LEATHERNECK_FED_ROAD_SEC_30_REV1.DWG 5/19/2017 5:44:02 PM ccaston

SCALE: 1" = 300'

0' 150' 300'

SECTION 30, TOWNSHIP 20-S, RANGE 29-E, N.M.P.M.
EDDY COUNTY, NEW MEXICO



STAN W. LLOYD
NEW MEXICO
19642
PROFESSIONAL SURVEYOR

Stan W. Lloyd

Stan W. Lloyd, P.S. No. 19642
SEPTEMBER 25, 2017

Matador PRODUCTION COMPANY

TOPOGRAPHIC
LOYALTY INNOVATION LEGACY

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LEATHERNECK FED #122H PROXIMITY	REVISION:	
	GLH	05/11/17
	GLH	05/17/17
DATE: 04/14/17	EAH	09/05/17
FILE: LO_LEATHERNECK_FED_122H_REV4	MML	09/25/17
DRAWN BY: MML		
SHEET: 7 OF 7		

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Map 3-3

S:\SURVEY\MATADOR_RESOURCES\LEATHERNECK_FED_122H\FINAL_PRODUCTS\LO_LEATHERNECK_FED_122H_REV4.DWG 9/26/2017 2:12:52 PM ccaston

Matador Production Company

Leatherneck Fed Slot 2:
122H, 132H, 202H, & 222H
Well Vicinity & Lease Map

Sections 29 & 30, T.20S, R.29E
Eddy County, New Mexico

- Leatherneck Fed Slot 2 Well Pad
- Proposed Slot 2 Well Bore Path
- Bottom Hole Location
- Matador Lease Line
- BLM Surface
- State Surface

1:20,350

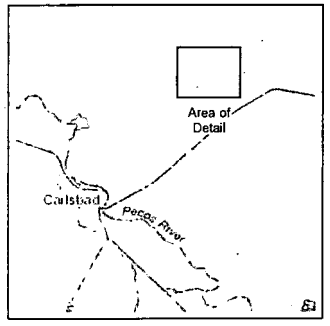
0 0.125 0.25 0.5
Miles

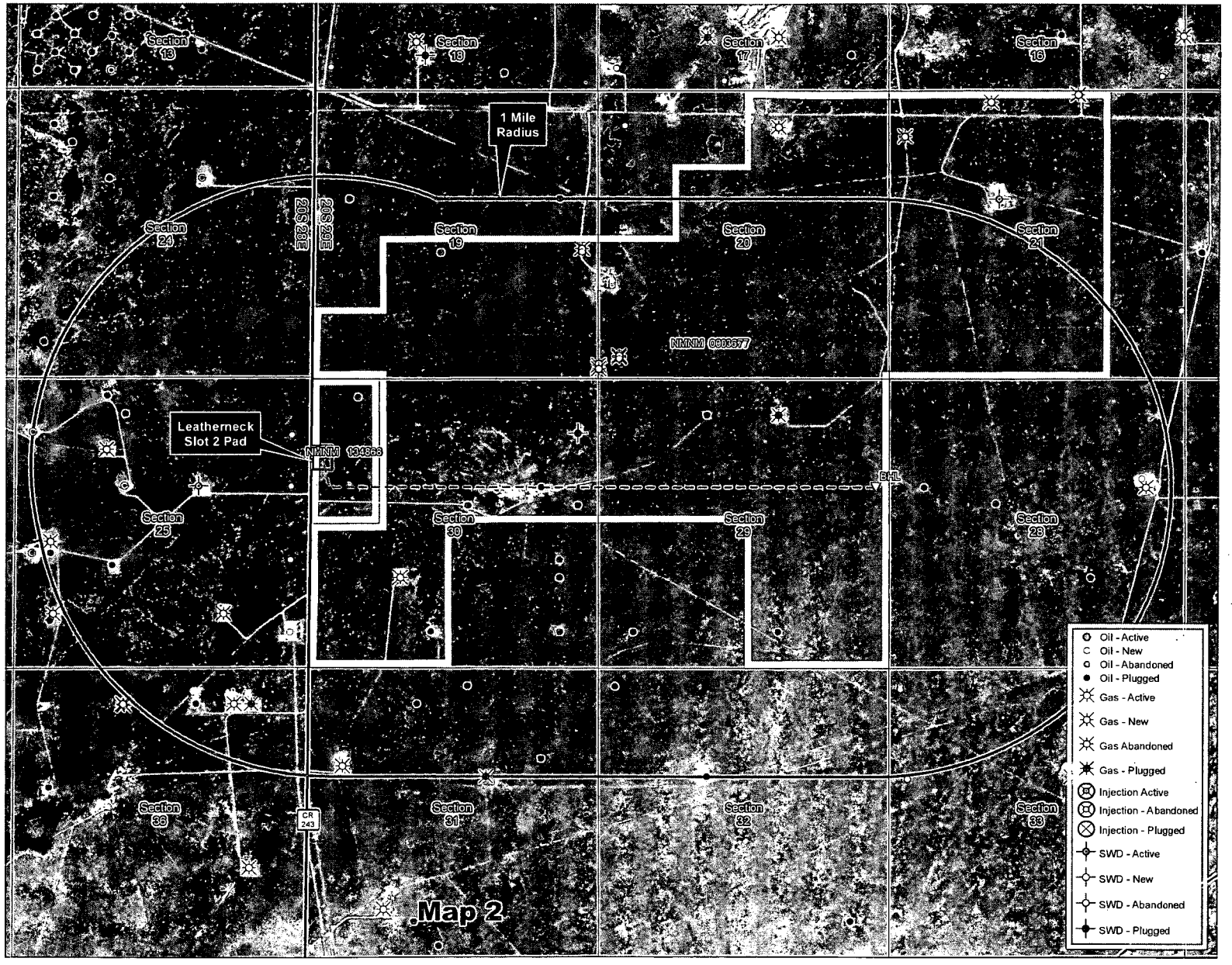
N

NAD 1983 New Mexico State Plane East
FIPS 3001 Feet

PERMITS WEST, INC.

Prepared by Permits West, Inc., May 2, 2018
for Matador Production Company





Production Layout and Interim Reclamation Diagram

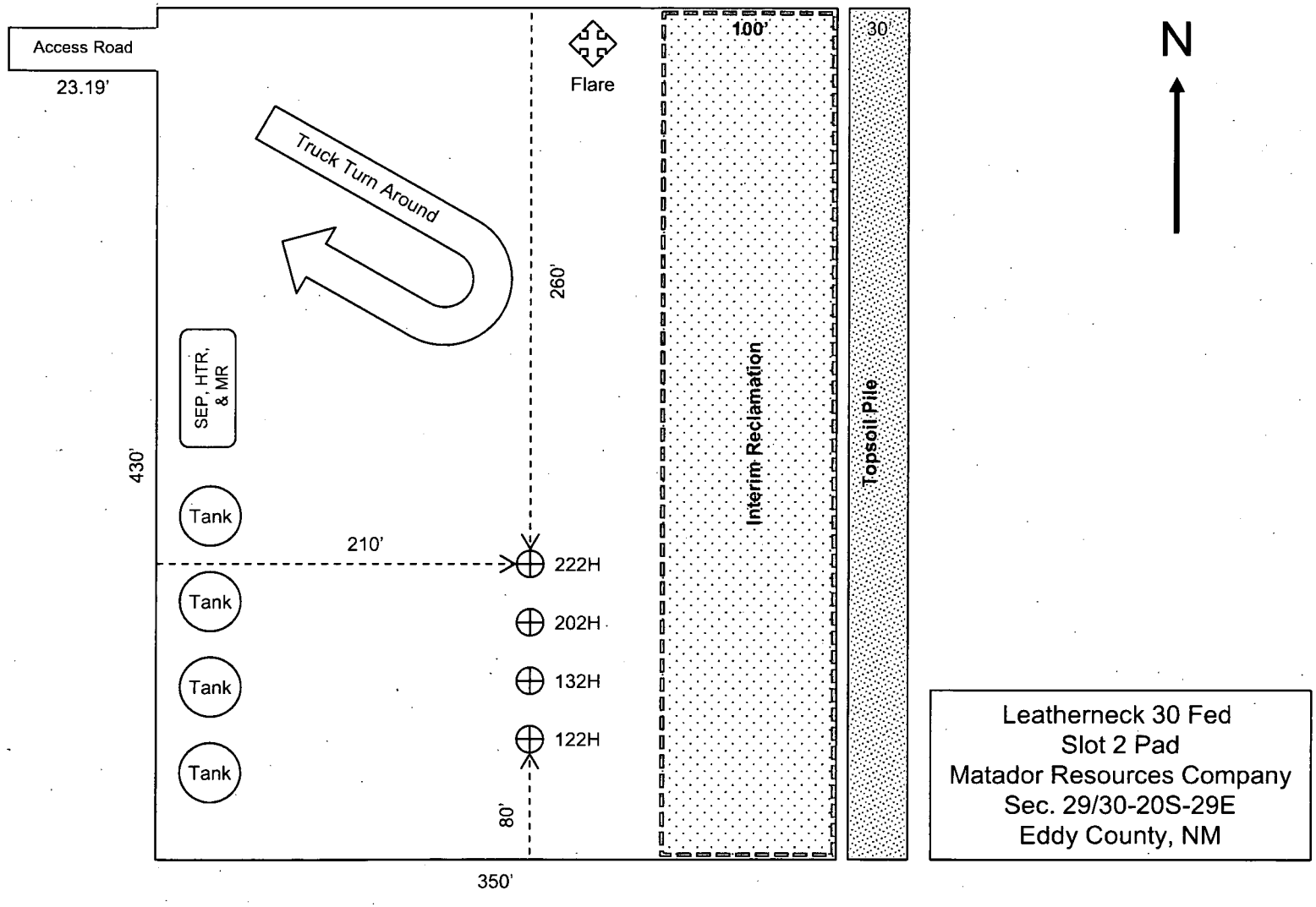


Figure 1

Matador Production Company

Leatherneck Fed
Water & Gravel Source Map

Eddy County, New Mexico

Leatherneck Well Pads

1:65,000

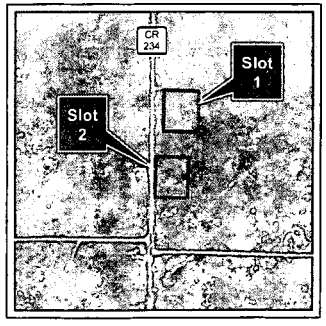
0 0.5 1 2
Miles

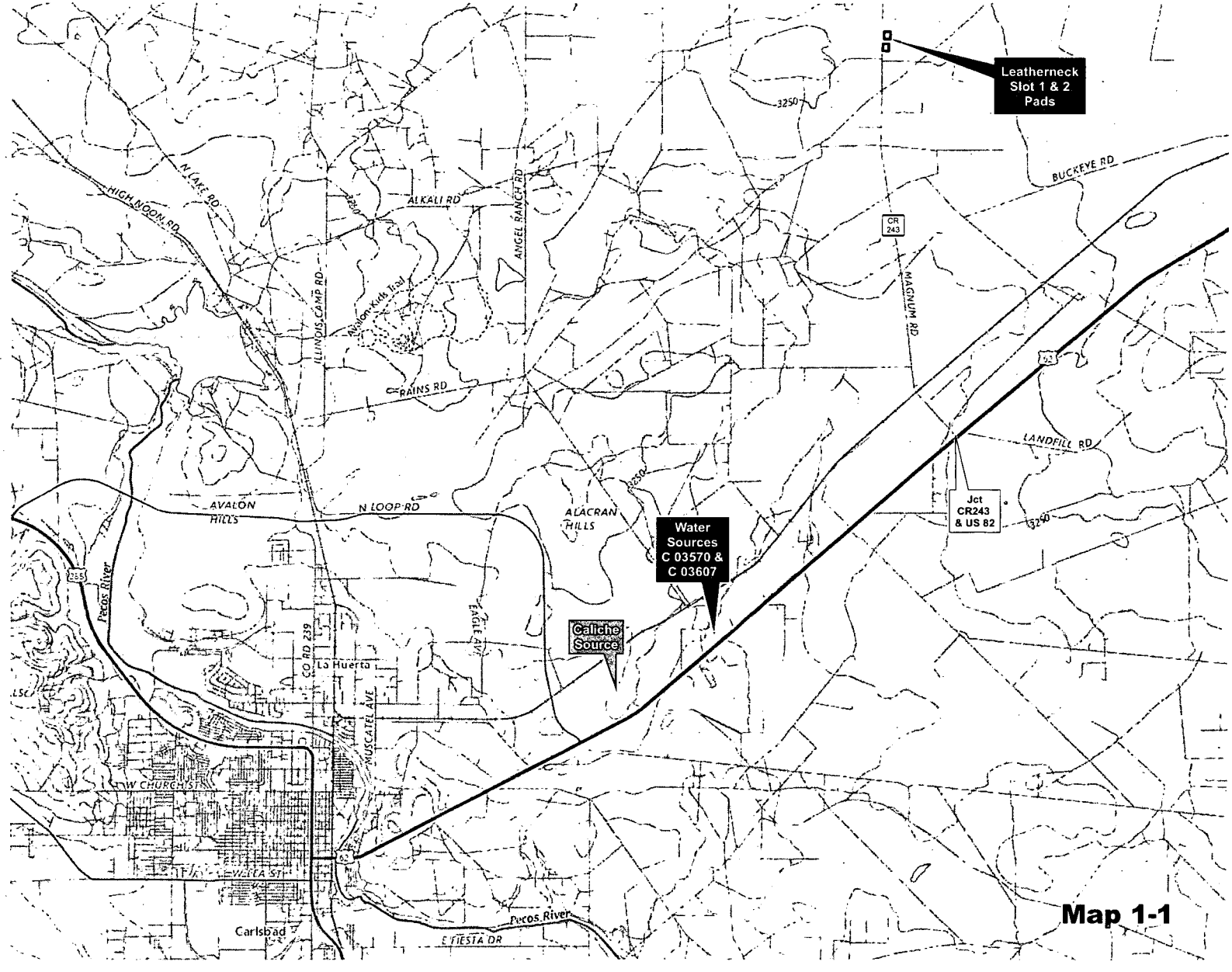
N

NAD 1983 New Mexico State Plane East
FIPS 3001 Feet

PERMITS WEST

Prepared by Permits West, Inc., May 2, 2018
for Matador Production Company





Production Layout and Interim Reclamation Diagram

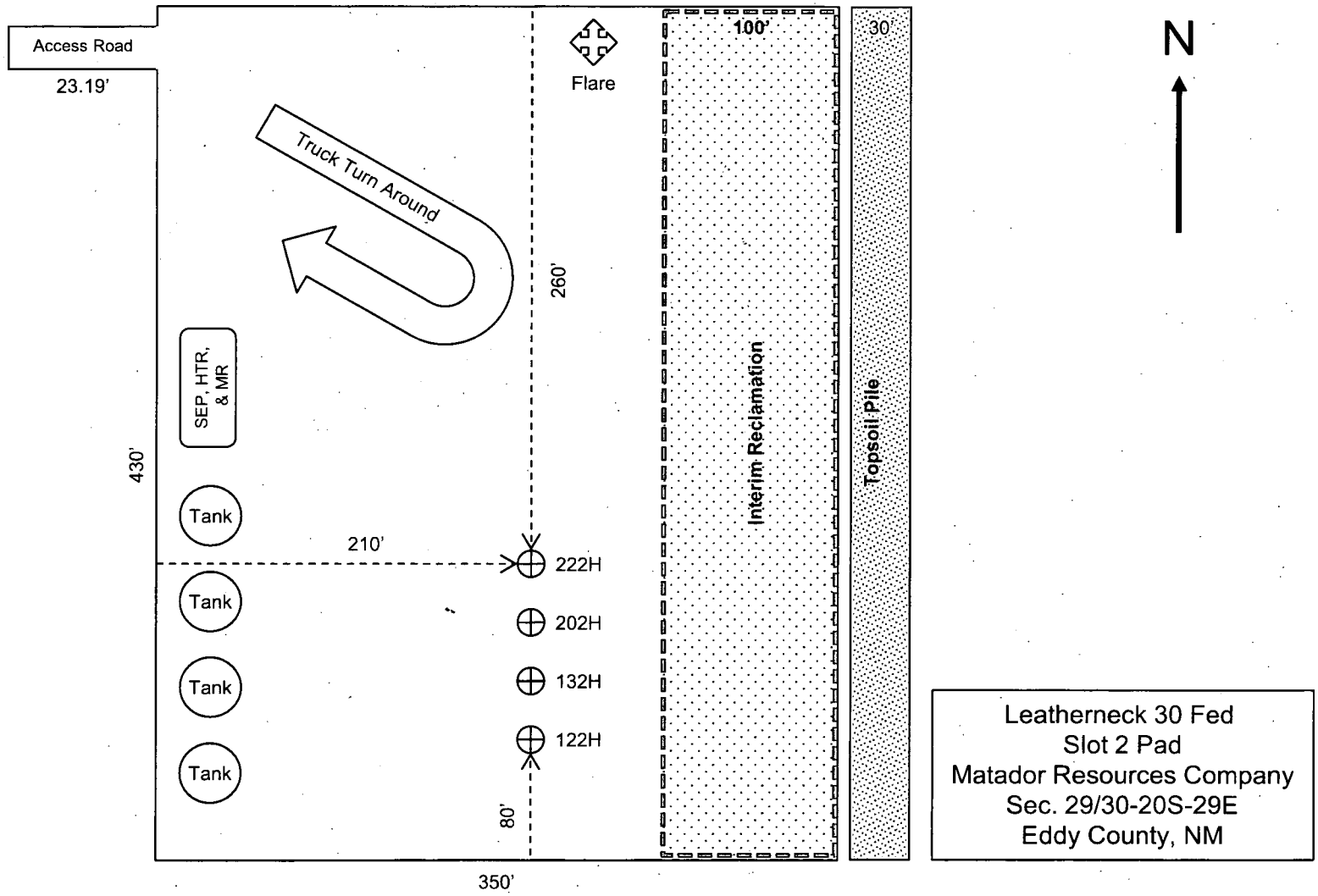


Figure 1

Production Layout and Interim Reclamation Diagram

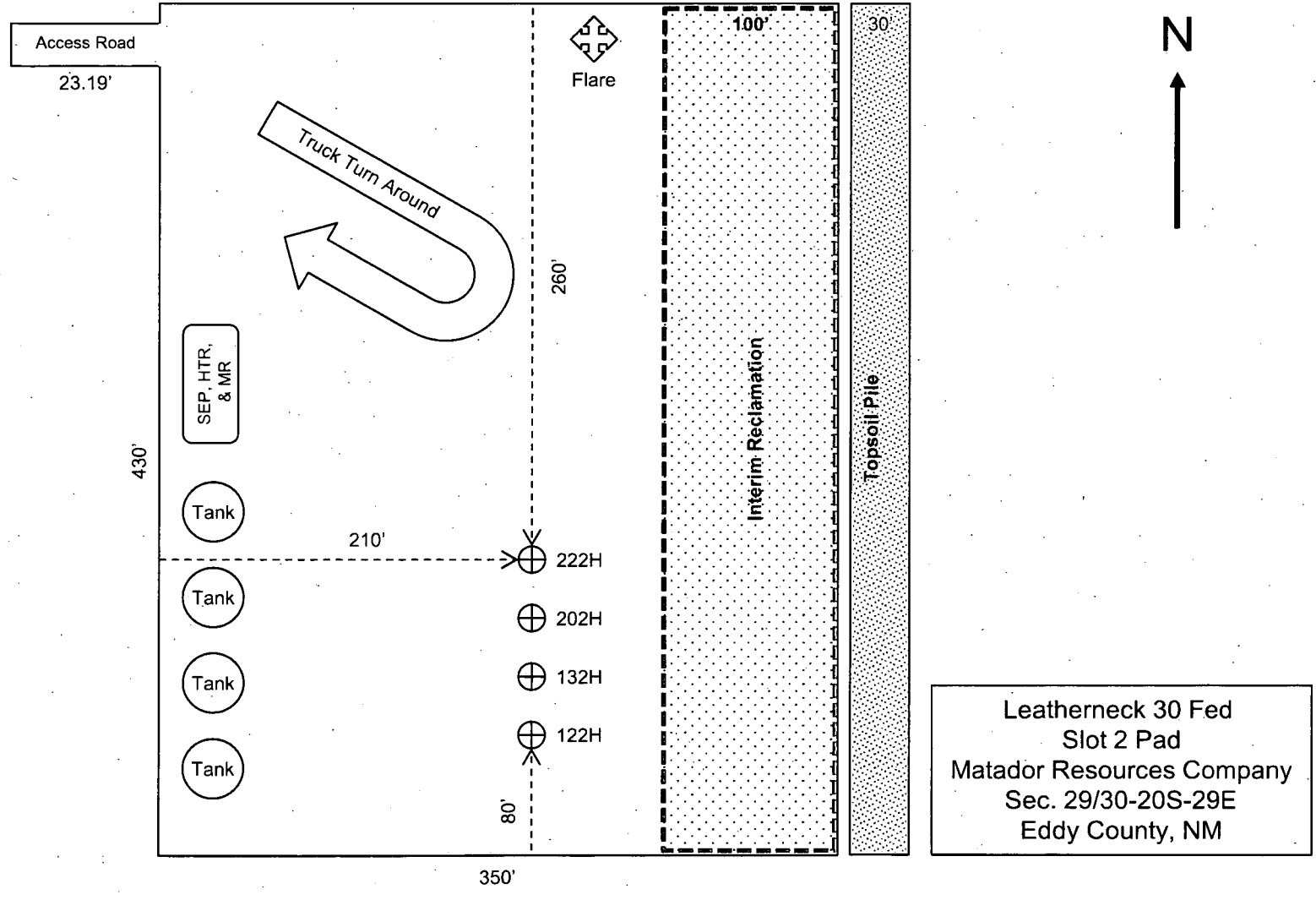


Figure 1

Rig Diagram

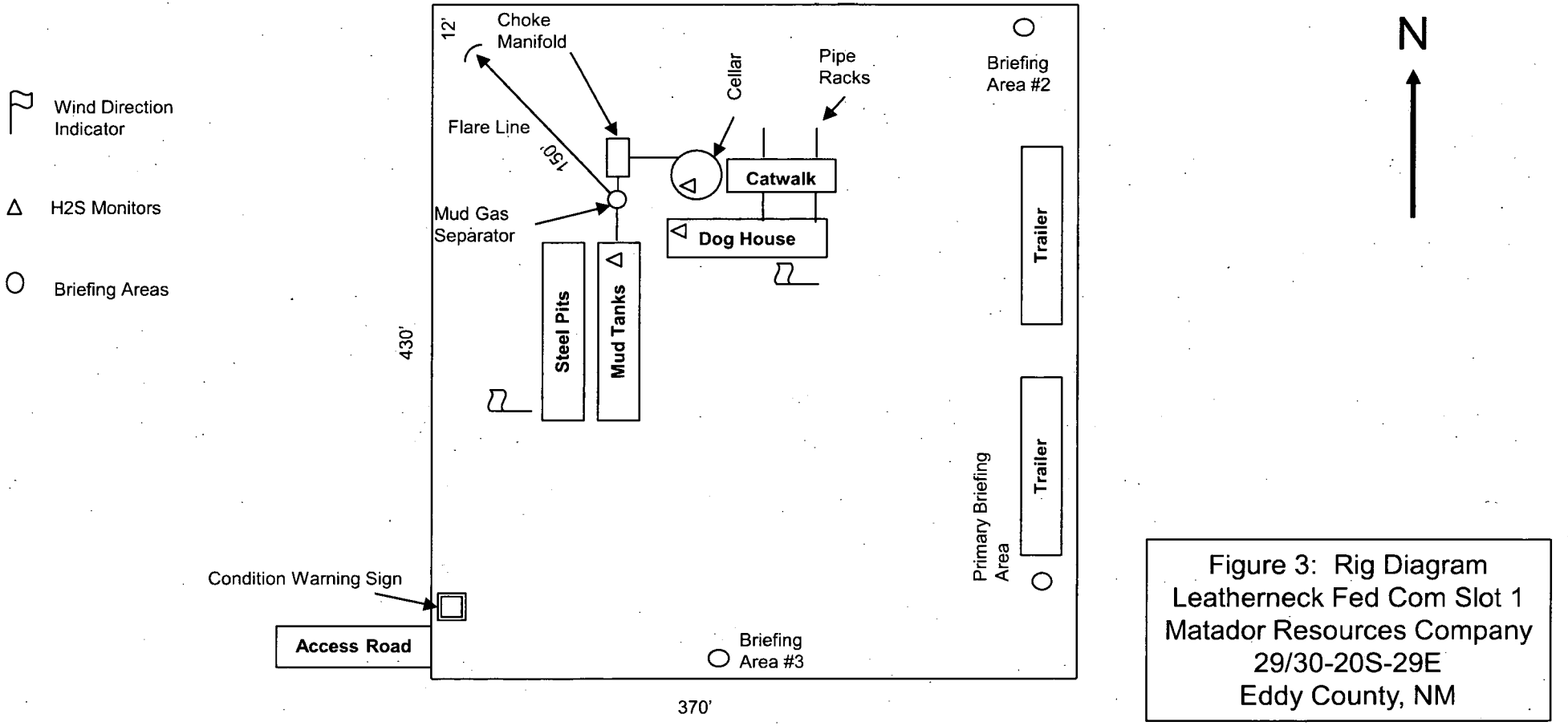
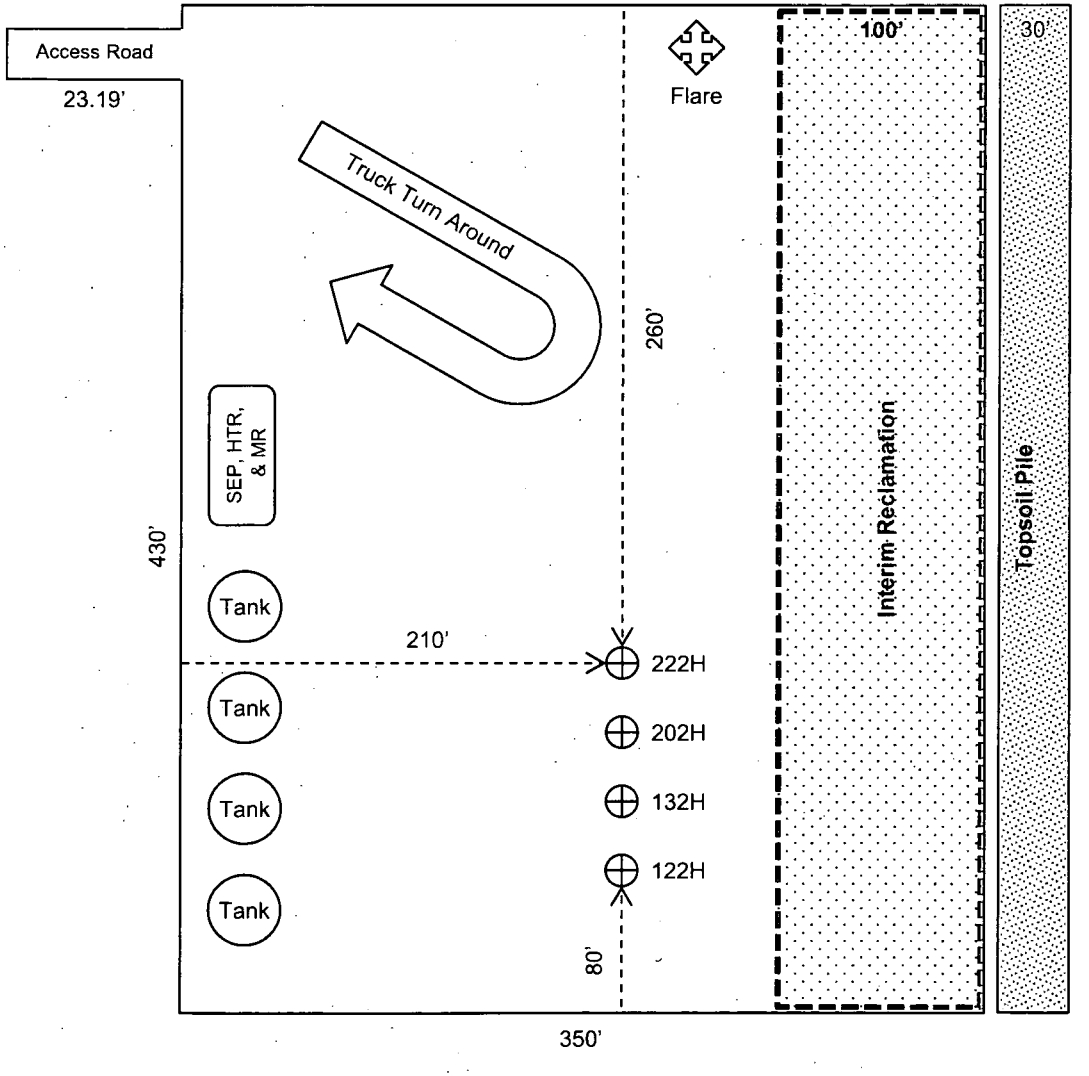


Figure 3: Rig Diagram
Leatherneck Fed Com Slot 1
Matador Resources Company
29/30-20S-29E
Eddy County, NM

Production Layout and Interim Reclamation Diagram



N

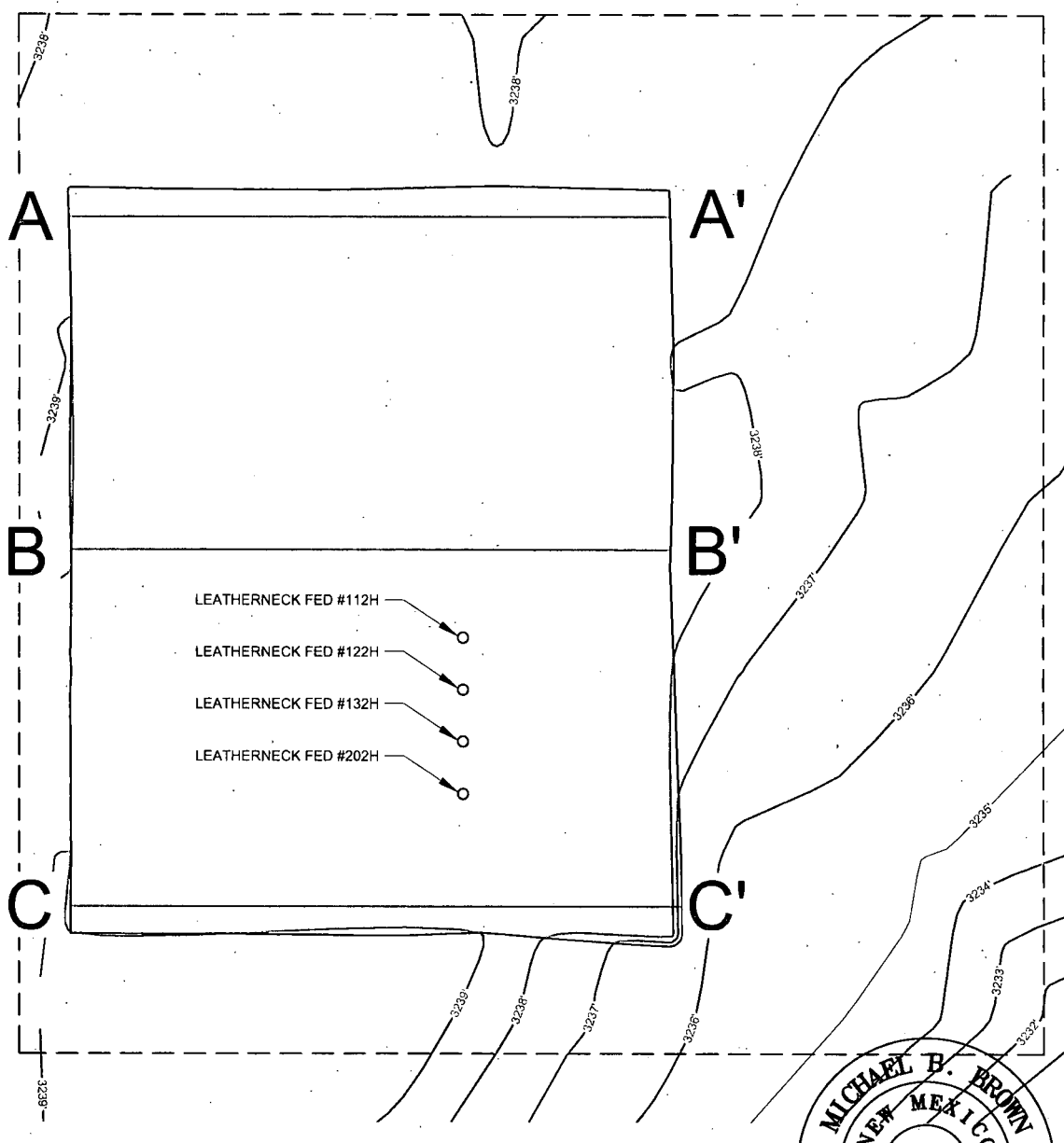
Leatherneck 30 Fed
Slot 2 Pad
Matador Resources Company
Sec. 29/30-20S-29E
Eddy County, NM

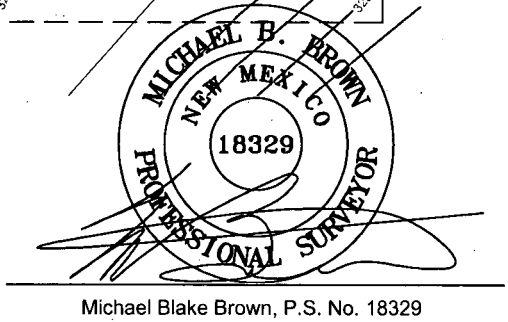
Figure 1

EXHIBIT "A"

SECTION 30, TOWNSHIP 20-S, RANGE 29-E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

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





Michael Blake Brown, P.S. No. 18329
MAY 12, 2017
Field note description of even date accompanies this plat.

Matador PRODUCTION COMPANY

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

LEATHERNECK #122H SURFACE PAD SITE PROFILE	REVISION:	
	GLH	05/12/17
DATE: 04/20/17		
FILE: CD_LEATHERNECK_FED_122H_SURFACE_PAD_SITE_REV1		
DRAWN BY: EAH		
SHEET: 1 OF 2		

NOTES:
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FIGURE 2-1

S:\SURVEY\MATADOR_RESOURCES\LEATHERNECK_FED_122H_SURFACE_PAD_SITE\FINAL_PRODUCTS\CD_LEATHERNECK_FED_122H_SURFACE_PAD_SITE_REV1.DWG 5/16/2017 10:29:40 AM ccaslon

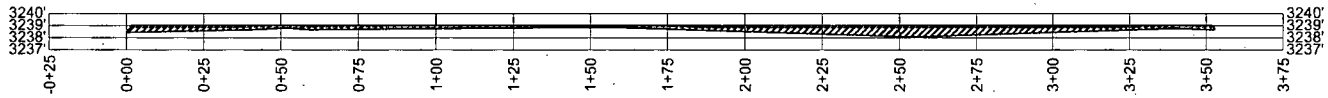
EXHIBIT "A"

SECTION 30, TOWNSHIP 20-S, RANGE 29-E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

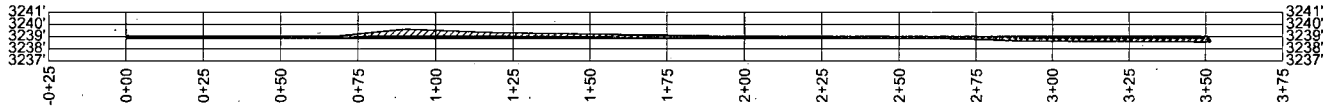
TOP OF PAD ELEVATION: 3238.9839
CUT SLOPE: 33.33% 3.000:1 18.43°
FILL SLOPE: 33.33% 3.000:1 18.43°
BALANCE TOLERANCE (C.Y.): 0.00
CUT SWELL FACTOR: 1.00
FILL SHRINK FACTOR: 1.00

PAD EARTHWORK VOLUMES
CUT : 36,498.9 C.F., 1,351.81 C.Y.
FILL: 36,498.9 C.F., 1,351.81 C.Y.
AREA: 153435.5 SQ.FT., 3.522 ACRES

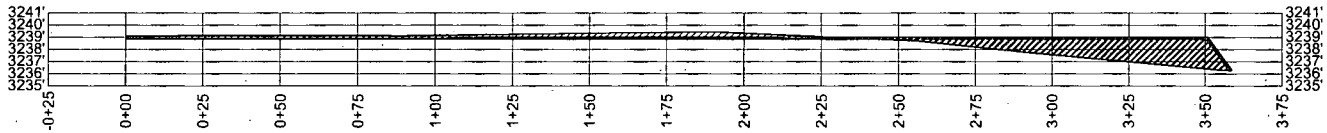
A-A'



B-B'



C-C'



Horizontal Scale = 1:60
Vertical Scale = 1:5

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	GLH	05/12/17
DATE: 04/20/17		
FILE: CD_LEATHERNECK_FED_122H_SURFACE_PAD_SITE_REV1		
DRAWN BY: EAH		
SHEET : 2 OF 2		

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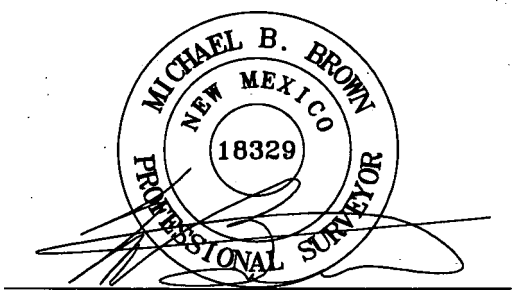
FIGURE 2-2



Michael Blake Brown, P.S. No. 18329
MAY 12, 2017
Field note description of even date accompanies this plat.

S:\SURVEY\MATADOR_RESOURCES\LEATHERNECK_FED_122H_SURFACE_PAD_SITE\FINAL_PRODUCTS\CD_LEATHERNECK_FED_122H_SURFACE_PAD_SITE_REV1.DWG 5/16/2017 10:29:45 AM ccaston