Form 3160-3 (June 2015)

MAY 1 3 2019

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU.OF LAND MANAGEMENT

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

5. Lease Serial No.

NMNM134868

APPLICATION FOR PERMIT TO D	RILL OR	REENTER		6. If Indian, Allotee or	Tribe Name
	EENTER			7. If Unit or CA Agree	ment, Name and No.
	Other		: .	8. Lease Name and We	ill No.
1c. Type of Completion: Hydraulic Fracturing S	ingle Zone	Multiple Zone		LEATHERNECK FED	ОСОМ
				^{202H} 3256	70
2. Name of Operator MATADOR PRODUCTION COMPANY		228	937	9. API Well No. 30-0/5-	-45984
3a. Address 5400 LBJ Freeway, Suite 1500 Dallas TX 75240	3b. Phone N (972)371-5	No. (include area code 200	e)	10. Field and Pool, or I BURTON FLAT; WO	
4. Location of Well (Report location clearly and in accordance	with any State	requirements.*)		11. Sec., T. R. M. or B	lk, and Survey or Area
At surface SWNW / 1510 FNL / 236 FWL / LAT 32.54	75892 / LON	G -104.1217856		SEC 30 / T20S / R29	E / NMP
At proposed prod. zone SENE / 1981 FNL / 240 FEL / L	AT 32.54623	18 / LONG -104.08	393883		
14. Distance in miles and direction from nearest town or post off 11 miles	fice*			12. County or Parish EDDY	13. State NM
15. Distance from proposed* 236 feet	16. No of a	cres in lease	17. Spacii	ng Unit dedicated to this	well
location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	73.18		635.14	•	
18. Distance from proposed location*	19. Propose	ed Depth	20. BLM/	/BIA Bond No. in file	
to nearest well, drilling, completed, applied for, on this lease, ft.	9259 feet /	19211 feet	FED: NM	/B001079	•
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3240 feet	22. Approx 08/01/2018	imate date work will	start*	23. Estimated duration 90 days	
· ·	24. Attac	chments			
The following, completed in accordance with the requirements of (as applicable)	of Onshore Oil	and Gas Order No. 1	l, and the H	Hydraulic Fracturing rule	per 43 CFR 3162.3-3
Well plat certified by a registered surveyor. A Drilling Plan.		4. Bond to cover th Item 20 above).	e operation	ns unless covered by an ex	xisting bond on file (see
A Surface Use Plan (if the location is on National Forest Syste SUPO must be filed with the appropriate Forest Service Office	-	,		rmation and/or plans as m	ay be requested by the
25. Signature		(Printed/Typed)		•	ate
(Electronic Submission)	Brian	Wood / Ph: (505)4	66-8120	0	6/19/2018
Title President	•	•			
Approved by (Signature)	Name	e (Printed/Typed)		D	Pate
(Electronic Submission)	I	Layton / Ph: (575)2	234-5959	1	5/09/2019
Title	Office	e			
Assistant Field Manager Lands & Minerals		SBAD			
Application approval does not warrant or certify that the applica applicant to conduct operations thereon. Conditions of approval, if any, are attached.	nt holds legal	or equitable title to th	nose rights	in the subject lease which	th would entitle the
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, r of the United States any false, fictitious or fraudulent statements	make it a crim or representat	e for any person know tions as to any matter	wingly and within its	willfully to make to any jurisdiction.	department or agency

Approval Date: 05/09/2019

(Continued on page 2)

*(Instructions on page 2)

RW5-16-19

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.

(Form 3160-3, page 2)

Additional Operator Remarks

Location of Well

SHL: SWNW / 1510 FNL / 236 FWL / TWSP: 20S / RANGE: 29E / SECTION: 30 / LAT: 32.5475892 / LONG: -104.1217856 (TVD: 0 feet, MD: 0 feet)
 PPP: SWNW / 1510 FNL / 236 FWL / TWSP: 20S / RANGE: 29E / SECTION: 30 / LAT: 32.5475892 / LONG: -104.1217856 (TVD: 0 feet, MD: 0 feet)
 PPP: SENW / 1961 FNL / 1225 FWL / TWSP: 20S / RANGE: 29E / SECTION: 30 / LAT: 32.546307 / LONG: -104.118591 (TVD: 9259 feet, MD: 10213 feet)
 BHL: SENE / 1981 FNL / 240 FEL / TWSP: 20S / RANGE: 29E / SECTION: 29 / LAT: 32.5462318 / LONG: -104.0893883 (TVD: 9259 feet, MD: 19211 feet)

BLM Point of Contact

Name: Katrina Ponder

Title: Geologist

Phone: 5752345969

Email: kponder@blm.gov

(Form 3160-3, page 3)

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.

(Form 3160-3, page 4)

PECOS DISTRICT DRILLING OPERATIONS CONDITIONS OF APPROVAL

OPERATOR'S NAME: | Matador Production Company

LEASE NO.: | NMNM134868

WELL NAME & NO.: Leatherneck Fed Com 202H SURFACE HOLE FOOTAGE: 1510' FNL & 236' FWL

BOTTOM HOLE FOOTAGE: 1510' FNL & 230' FWL BOTTOM HOLE FOOTAGE | 1981' FNL & 240' FEL

LOCATION: Section 30, T 20S, R 29E, NMPM COUNTY: Eddy County, New Mexico

H2S	• Yes	C No	
Potash	© None	^C Secretary	← R-111-P
Cave/Karst Potential	CLow	C Medium	• High
Variance	None	C Flex Hose	© Other
Wellhead	^C Conventional	Multibowl	← Both
Other	✓ 4 String Area	☑ Capitan Reef	□ WIPP
Other	Fluid Filled	Cement Squeeze	Pilot Hole
Special Requirements		I ✓ COM	Г 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 <u>8 hours</u> or <u>500 psi</u> 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 **7-5/8"** and **7"** tapered intermediate casing shall be cemented to at least **50'** above the Capitan Reef. Operator shall provide method of verification.
- 5. The 5-1/2" and 4-1/2" tapered production string shall be cemented with at least 200' of cement tie-back into the previous casing. 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 CountyCall 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:
LEASE NO.:
WELL NAME & NO.:
SURFACE HOLE FOOTAGE:
BOTTOM HOLE FOOTAGE
LOCATION:
COUNTY:
Matador Production Company
NMNM134868
Leatherneck Fed Com 202H
1510'/N & 236'/W
1981'/N & 240'/E
Section 30, T.20 S., R.29 E., NMPM
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.

General Provisions
Permit Expiration
Archaeology, Paleontology, and Historical Sites
Noxious Weeds
Special Requirements
Cave/Karst
Hydrology
Construction
Notification
Topsoil
Closed Loop System
Federal Mineral Material Pits
Well Pads
Roads
Road Section Diagram
Production (Post Drilling)
Well Structures & Facilities
Interim Reclamation
Final Abandonment & Reclamation

Page 1 of 13

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.

Page 2 of 13

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 cavebearing 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

Page 4 of 13

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)

Page 6 of 13

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

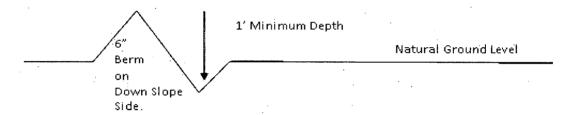
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

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
- 3. Redistribute topsoil
- 2. Construct road
- 4. Revegetate slopes

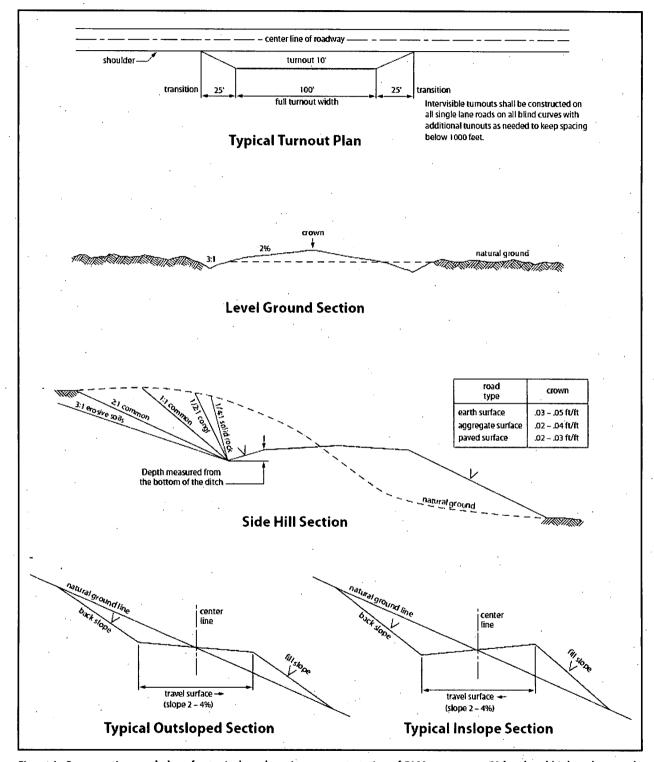


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

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 1½ 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.

Page 11 of 13

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		
	<u>lb/</u>	/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



U.S. Department of the Interior BUREAU OF LAND MANAGEMENT APD Print Report
05/10/2019

APD ID: 10400031418

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: LEATHERNECK FED COM

Well Type: OIL WELL

Submission Date: 06/19/2018

Federal/Indian APD: FED

Well Number: 202H

Well Work Type: Drill

Highlighted data reflects the most recent changes

Show Final Text

Application

Section 1 - General

APD ID:

10400031418

Tie to previous NOS?

Submission Date: 06/19/2018

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:

Approval Date: 05/09/2019

Page 1 of 25

Well Name: LEATHERNECK FED COM Well Number: 202H

Well Name: LEATHERNECK FED COM

Well Number: 202H

Well API Number:

Field/Pool or Exploratory? Field and Pool

Field Name: BURTON FLAT;

Pool Name:

WOLFCAMP, EAST

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:

Number: SLOT 2

Well Class: HORIZONTAL

LEATHERNECK FED COM 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: 635.14 Acres

Well plat: LN_202H_C102_ETAL_20180619090416.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	dΛΤ
SHL	151	FNL	236	FWL	20S	29E	30	Aliquot	32.54758	<u>.</u>	EDD	NEW	NEW	F	NMNM	324	0	0
Leg	0							SWN	92	104.1217	Υ	MEXI	MEXI		134868	0		
#1								W		856		co	CO.					
KOP	151	FNL	236	FWL	208	29E	30	Aliquot	32.54758	-	EDD	NEW	NEW	F	NMNM	-	870	868
Leg	0							SWN	92	104.1217	Υ .	MEXI	MEXI		134868	544	4 .	2
#1								W		856		СО	CO			2		

Approval Date: 05/09/2019

Page 2 of 25

Well Name: LEATHERNECK FED COM Well Number: 202H

$\overline{}$			$\overline{}$															
	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	151 0	FNL	236	FWL	20S	29E	30	Aliquot SWN W	32.54758 92	- 104.1217 856	EDD	NEW	NEW MEXI CO	F	NMNM 134868	324 0	0	0
PPP Leg #1	196 1	FNL	122 5	FWL	208	29E	30	Aliquot SENW	32.54630 7	- 104.1185 91	EDD Y		NEW MEXI CO	F	NMNM 000367 7	- 601 9	102 13	925 9
EXIT Leg #1	198 1	FNL	240	FEL	208	29E	29	Aliquot SENE	32.54623 18	- 104.0893 883	EDD Y	1	NEW MEXI CO	F	NMNM 000367 7	- 601 9	192 11	925 9
BHL Leg #1	198 1	FNL :	240	FEL	208	29E	29	Aliquot SENE	32.54623 18	- 104.0893 883	EDD Y		NEW MEXI CO	F	NMNM 000367 7	- 601 9	192 11	925 9

Drilling Plan

Section 1 - Geologic Formations

Formation	Formation Name		True Vertical			Adia and Danie	Producing
ID	Formation Name	Elevation	Depth	Depth	Lithologies	Mineral Resources	
1	QUATERNARY	3240	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	2989	SANDSTONE	NATURAL GAS,CO2,QIL	No
6	BRUSHY CANYON	-888	4127	4140	SANDSTONE	NATURAL GAS,CO2,OIL	No
7	BONE SPRING	-2433	5672	5693	LIMESTONE	NATURAL GAS,CO2,OIL	No
8	UPPER AVALON SHALE	-2701	5940	5962		NATURAL GAS,CO2,OIL	No
9		-2881	6120	6144	OTHER : Avalon Carbonate	NATURAL GAS,CO2,OIL	No
10		-3034	6273	6297	SHALE,OTHER : Lower Avalon	NATURAL GAS,CO2,OIL	No .

Well Name: LEATHERNECK FED COM Well Number: 202H

Formation			True Vertical	Measured	•		Producin
. ID	Formation Name .	Elevation	Depth	Depth	Lithologies	Mineral Resources	I
11	BONE SPRING 1ST	-3115	6354	6377	OTHER : Carbonate	NATURAL GAS,CO2,OIL	No
12	BONE SPRING 1ST	-3592	6831	6855	SANDSTONE	NATURAL GAS,CO2,OIL	No
13	BONE SPRING 2ND	-3784	7023	7047	OTHER : Carbonate	NATURAL GAS,CO2,OIL	No
14	BONE SPRING 2ND	-4208	7447	7470 .	SANDSTONE	NATURAL GAS,CO2,OIL	No
15	BONE SPRING 3RD	-4580	7819	7843	OTHER : Carbonate	NATURAL GAS,CO2,OIL	No
16	BONE SPRING 3RD	-5416	8655	8679	SANDSTONE	NATURAL GAS,CO2,OIL	No
17	WOLFCAMP	-5846	9085	9138	OTHER : A	NATURAL GAS,CO2,OIL	Yes

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M

Rating Depth: 12000

Equipment: A 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. Also present will be an accumulator that meets the requirements of Onshore Order #2 for the pressure rating of the BOP stack. A rotating head will also be installed as needed. Pressure tests will be conducted prior to drilling out under all casing strings. BOP will be inspected and operated as recommended in Onshore Order #2. A 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.

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 with landing mandrel for 9-5/8" and 7-5/8" x 7" casing. A diagram of the speed head is attached.

Testing Procedure: A third party company will test the BOPs. Test pressures will be as follows: On the intermediate 1 casing, pressure tests will be made to 250 psi low and 2000 psi high. On the intermediate 2 casing, pressure tests will be made to 250 psi low and 3000 psi high. On the intermediate 3 casing, pressure tests will be made to 250 psi low and 7500 psi high. The annular preventer will be tested to 250 psi low and 2500 psi high on the intermediate 1, 2 and 3 casing. In the case of running a speed head with landing mandrel for 9-5/8" and 7-5/8" x 7" casing the initial intermediate 1 casing test pressures will be 250 psi low and 3000 psi high with wellhead seals tested to 5000 psi once the 9-5/8" casing has been landed and cemented. The BOP will then be lifted to install the 'D-section' of the wellhead. We will nipple the BOP back up and the pressure tests will be made to 250 psi low and 7500 psi high and the annular will be tested to 250 psi low and 2500 psi high.

Choke Diagram Attachment:

LN 202H Choke 20180619093525.pdf

BOP Diagram Attachment:

LN_202H_BOP_coflex_20180619093536.pdf

Approval Date: 05/09/2019 Page 4 of 25

Well Name: LEATHERNECK FED COM Well Number: 202H

Section 3 - Casing

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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	TO - 7- C
1	SURFACE	26	20.0	NEW	API	N ⁻	0	400	0 .	400	3240		400	J-55	94	OTHER - BTC	1.12 5	1.12 5	DRY	1.8	DRY	1.
	INTERMED IATE	8.75	7.625	NEW	API	Y	0	1200	0	1175	3240		1200	P- 110	1	OTHER - BTC	1.12 5	1.12 5	DRY	1.8	DRY	1.
3	INTERMED IATE	17.5	13.375	NEW	API	Y	0	1200	0	1200	3240		1200	J-55	54.5	OTHER - BTC	1.12 5	1.12 5	DRY	1.8	DRY	1.
4	INTERMED IATE	12.2 5	9.625	NEW	API	N	0	3100	0 .	3094	3240		3100	J-55	40	OTHER - BTC		1.12 5	DRY	1.8	DRY	1.
5	PRODUCTI ON	8.75	5.5	NEW	API	Y	0	8554	0	8478	3240		8554	P- 110	20 -	OTHER - Tenaris XP	1.12 5	1.12 5	DRY	1.8	DRY	1.
6	INTERMED IATE	8.75	7.625	NEW	API	Y	1200	8654	1175	8578			7454	P- 110	29.7	OTHER - HTF-NR		1.12 5	DRY.	1.8	DRY	1.
7	INTERMED IATE	8.75	7.0	NEW	API	Y	8654	9450	8578	9236			1	P- 110	I	OTHER - BTC	1.12 5	1.12 5	DRY	1.8	DRY	1.
8	PRODUCTI ON	6.12 5	4.5	NEW	API	Y	8554	19211	8478	9259			10657	P- 110	13.5	OTHER - Tenaris XP	1.12 5	1.12 5	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_202H_Casing_Design_Assumptions_20180619093856.pdf

Operator Name: MATADOR PRODUCTION COMPANY Well Name: LEATHERNECK FED COM Well Number: 202H **Casing Attachments** Casing ID: 2 String Type: INTERMEDIATE **Inspection Document: Spec Document: Tapered String Spec:** LN_202H_Casing_Design_Assumptions_20180619100609.pdf Casing Design Assumptions and Worksheet(s): LN_202H Casing Design Assumptions 20180619093946.pdf Casing ID: 3 **String Type:**INTERMEDIATE **Inspection Document: Spec Document: Tapered String Spec:** LN 202H Casing Design Assumptions 20180619101922.pdf Casing Design Assumptions and Worksheet(s): LN_202H_Casing_Design_Assumptions_20180619101832.pdf Casing ID: 4 String Type: INTERMEDIATE **Inspection Document: Spec Document:**

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Approval Date: 05/09/2019

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

LN_202H_Casing_Design_Assumptions 20180619101822.pdf

Well Name: LEATHERNECK FED COM Well Number: 202H

Casing Attachments

Casing ID: 5

String Type: PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

LN_202H_5.5in_Casing_Spec_20180619095531.pdf

Casing Design Assumptions and Worksheet(s):

LN_202H_Casing_Design_Assumptions_20180619095541.pdf

Casing ID: 6

String Type: INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

LN_202H_7.625in_VAM_HTF_Casing_Spec_20180619101759.PDF

Casing Design Assumptions and Worksheet(s):

LN_202H_Casing_Design_Assumptions_20180619100955.pdf

Casing ID: 7

String Type: INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

LN_202H_Casing_Design_Assumptions_20180619101544.pdf

Casing Design Assumptions and Worksheet(s):

LN_202H_Casing_Design_Assumptions_20180619101151.pdf

Approval Date: 05/09/2019

Page 7 of 25

Well Name: LEATHERNECK FED COM

Well Number: 202H

Casing Attachments

Casing ID: 8

String Type: PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

LN_202H_4.5in_Casing_Spec_20180619100049.pdf

Casing Design Assumptions and Worksheet(s):

LN_202H_Casing_Design_Assumptions_20180619095847.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
INTERMEDIATE	Lead		0	0	0	0	. 0	0	0	None	None
INTERMEDIATE	Tail		0	0	0	0	0	0	. 0	None	None
PRODUCTION	Lead		0	0	Ó	0	0	0	0	None	None
PRODUCTION	Tail		0	0	0	0	0	0.	0	None	None
INTERMEDIATE	Lead		0	0	0	0	0	0	0	None	None
INTERMEDIATE	Tail		0	0	0	0	0	0	0	None	None
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

Well Name: LEATHERNECK FED COM Well Number: 202H

		_									
String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
INTERMEDIATE	Tail		0	3100	288	1.35	14.4	389	100	Class C	5% NaCl + LCM
INTERMEDIATE	Lead		1175	9450	593	2.36	11.5	1399	35	TXI	Fluid Loss + Dispersant + Retarder + LCM
INTERMEDIATE	Tail		1175	9450	376	1.38	13.2	519	35	TXI	Fluid Loss + Dispersant + Retarder + LCM
PRODUCTION	Lead		8450	1921. 1	0	0	Ö	0	,	None	None
PRODUCTION	Tail		8450	1921 1	808	1.38	15.8	1115	10	Class H	Fluid Loss + Dispersant + Retarder + LCM

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

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

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

Describe what will be on location to control well or mitigate other conditions: All necessary mud products (barite, bentonite, LCM) for weight addition and fluid loss control will be on location at all times. 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)	ЬН	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
9450	1921 1	OIL-BASED MUD	12.5	12.5					(
0	400	OTHER : Fresh water spud	8.4	8.4							
3100	9450	OTHER : Fresh water & cut brine	9	9							·

Well Name: LEATHERNECK FED COM Well Number: 202H

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	Hd	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
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 1,200' 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: 6015

Anticipated Surface Pressure: 3978.02

Anticipated Bottom Hole Temperature(F): 170

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_202H_Slot2_H2S_plan_20180619112227.pdf

Approval Date: 05/09/2019

Page 10 of 25

Well Name: LEATHERNECK FED COM Well Number: 202H

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

LN_202H_Horizontal_Drill_Plan_20180619112432.pdf

Other proposed operations facets description:

Other proposed operations facets attachment:

 $LN_202H_5String_Wolfcamp_Speedhead_specs_20180619112456.pdf$

LN_202H_General_Drill_Plan_011419_20190115105050.pdf

Other Variance attachment:

LN_202H_DVT_Tool_Variance_20180619112505.pdf

SUPO

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

LN_202H_Road_Map_20180619112523.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_202H_New_Road_Map_20180619112544.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

Approval Date: 05/09/2019

Page 11 of 25

Well Name: LEATHERNECK FED COM

Well Number: 202H

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 202H Well Map 20180619112606.pdf

Existing Wells description:

Approval Date: 05/09/2019

Page 12 of 25

Well Name: LEATHERNECK FED COM Well Number: 202H

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_202H_Production_Facilities_20180619112616.pdf

Section 5 - Location and Types of Water Supply

Water Source Table

Water source use type: DUST CONTROL,

INTERMEDIATE/PRODUCTION CASING, STIMULATION, SURFACE

CASING

Describe type:

Source longitude:

Water source type: GW WELL

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_202H_Water_Source_Map_20180619112705.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:

Approval Date: 05/09/2019

Page 13 of 25

Well Name: LEATHERNECK FED COM

Well Number: 202H

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_202H_Construction_Methods_20180619112748.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 containment attachment:

Waste disposal type: HAUL TO COMMERCIAL

Disposal location ownership: PRIVATE

FACILITY

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.)

Approval Date: 05/09/2019

Page 14 of 25

Well Name: LEATHERNECK FED COM

Well Number: 202H

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_202H_Well_Site_Layout_20180619112806.pdf

Comments:

Approval Date: 05/09/2019

Page 15 of 25

Well Name: LEATHERNECK FED COM Well Number: 202H

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_202H_Interim_Reclamation_Diagram_20180619112906.pdf

LN 202H Recontour Plat 20180619112916.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):

)

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:

Approval Date: 05/09/2019

Page 16 of 25

Operator Name: MATADON PRODUCTION COMPAN	INT	
Well Name: LEATHERNECK FED COM	Well Number: 202H	
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		
3.	<u>ب</u>	
Seed reclamation attachment:		
Operator Contact/Responsible Offici	ial Contact Info	
	,	
First Name:	Last Name:	
Phone:	Email:	
Seedbed prep:		
Seed BMP:		
Seed method:	•	

Approval Date: 05/09/2019

Well Name: LEATHERNECK FED COM Well Number: 202H

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:

Approval Date: 05/09/2019

Page 18 of 25

Operator Name: MATADOR PRODUCTION COMPANY Well Name: LEATHERNECK FED COM	Well Number: 202H
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:	

Approval Date: 05/09/2019

USFS Ranger District:

USFS Forest/Grassland:

Well Name: LEATHERNECK FED COM

Well Number: 202H

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_202H_SUPO_20180619112947.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

Approval Date: 05/09/2019

Page 20 of 25

Operator Name: MATADOR PRODUCTION COMPANY Well Name: LEATHERNECK FED COM	Well Number: 202H
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 attachn	nent:
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:	

Approval Date: 05/09/2019

Precipitated solids disposal:

Decribe precipitated solids disposal:

Page 21 of 25

<u> </u>		
Operator Name: MATADOR PRODUCTION COMPANY	,	
Well Name: LEATHERNECK FED COM	Well Number: 202H	
Precipitated solids disposal permit:		
Unlined pit precipitated solids disposal schedule:		
Unlined pit precipitated solids disposal schedule atta	chment:	
Unlined pit reclamation description:		
Unlined pit reclamation attachment:		٠.
Unlined pit Monitor description:		
Unlined pit Monitor attachment:		:
Do you propose to put the produced water to benefici	al use?	
Beneficial use user confirmation:		
Estimated depth of the shallowest aquifer (feet):		
Does the produced water have an annual average Tot that of the existing water to be protected?	al Dissolved Solids (TDS) concentration e	qual to or less than
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 p	it?	
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:	

Injection well new surface disturbance (acres):

Minerals protection information:

Assigned injection well API number?

Mineral protection attachment:

Approval Date: 05/09/2019

Injection well API number:

Well Name: LEATHERNECK FED COM Well Number: 202H

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:

Approval Date: 05/09/2019

Page 23 of 25

Well Name: LEATHERNECK FED COM

Forest Service reclamation bond attachment:

Reclamation bond number:

Reclamation bond amount:

Reclamation bond rider amount:

Additional reclamation bond information attachment:

Operator Certification

Well Number: 202H

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: 06/19/2018

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

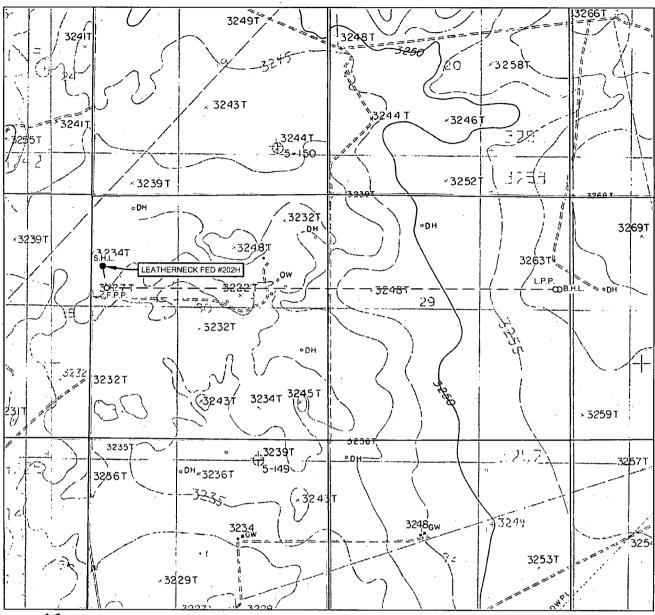
CBS Receipt number:

4163269

Approval Date: 05/09/2019

Page 24 of 25

LOCATION & ELEVATION VERIFICATION MAP





LEASE NAME & WELL NO.:

LEATHERNECK FED #202H

 SECTION
 30
 TWP
 20-S
 RGE
 29-E
 SURVEY
 N.M.P.M.

 COUNTY
 EDDY
 STATE
 NM
 ELEVATION
 3240'

 DESCRIPTION
 1510' FNL & 236' FWL

LATITUDE

N 32.5475892

LONGITUDE _

W 104.1217856



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.

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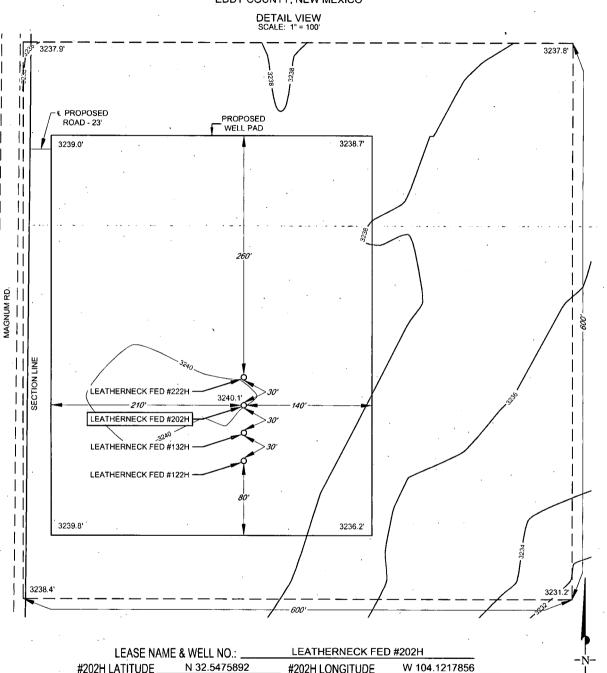
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SECTION 30, TOWNSHIP 20-S, RANGE 29-E, N.M.P.M. EDDY COUNTY, NEW MEXICO



#202H LONGITUDE

LEGEND

EXISTING ROAD SECTION LINE PROPOSED ROAD ARCH SITE

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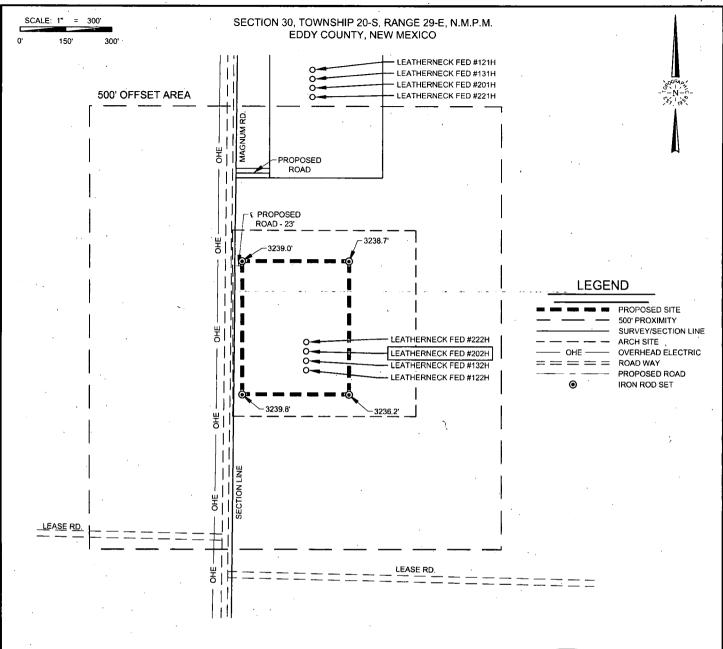
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SEPTEMBER 22, 2017

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LEATHERNECK FED #202H PROXIMITY	GLH	05/11/17	l
, , , , , , , , , , , , , , , , , , , ,	GLH	05/17/17	
DATE: 04/14/17	EAH	09/05/17	l
FILE:LO_LEATHERNECK_FED_202H_REV4	MML	09/22/17	l
DRAWN BY: MML			l
SHEET: 7 OF 7			

NOTES:

ITES:
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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, WITHINADIONING 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.

Matador Production Company

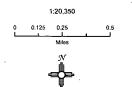
Leatherneck Fed Slot 2: 122H, 132H, 202H, & 222H Well Vicinity & Lease Map

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

Leatherneck Fed Slot 2 Well Pad

-- Proposed Slot 2 Well Bore Path

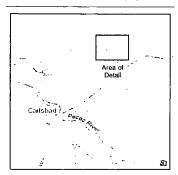
▽ Bottom Hole Location
 Matador Lease Line
 BLM Surface
 State Surface

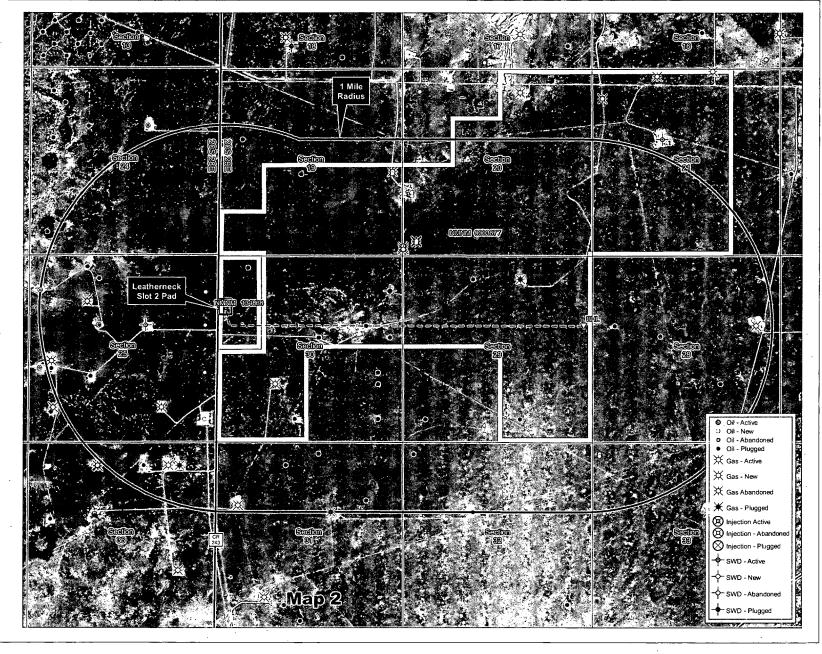


NAD 1983 New Mexico State Plane East FIPS 3001 Feet

PERWITS WEST ...

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





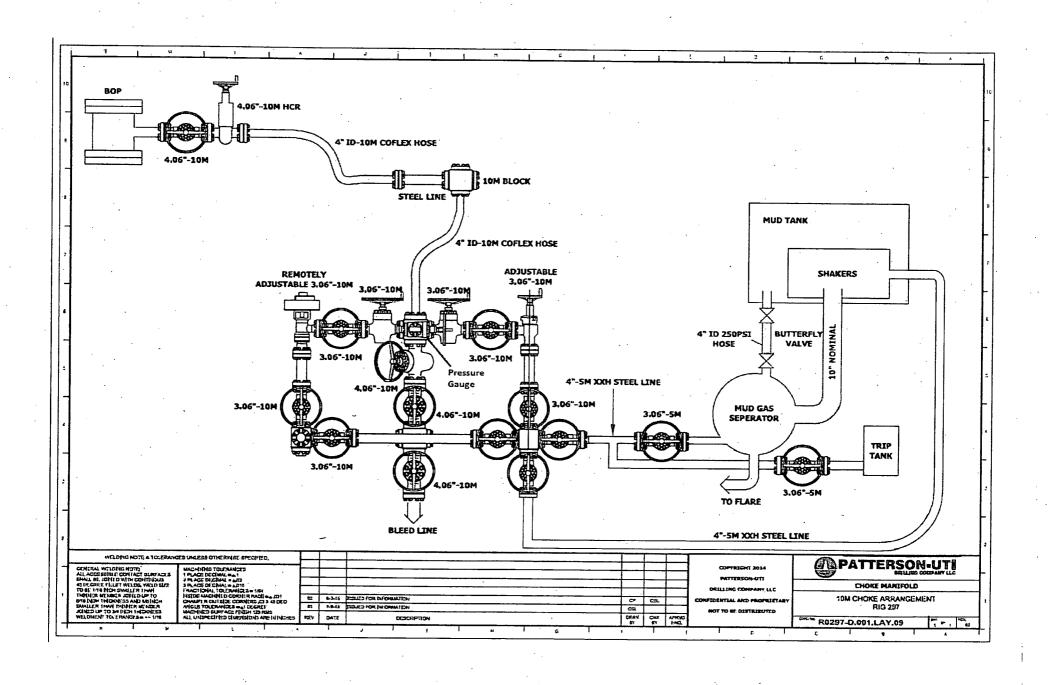
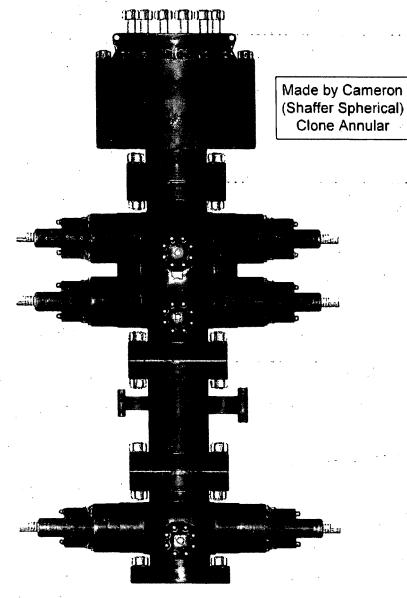




Exhibit E-1: BOP Leatherneck 30 Fed #202H Matador Resources Company





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

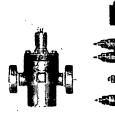


WING VALVES

3" Minimum Choke Line

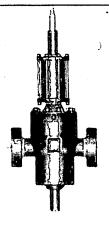












2" Check Valve

2" Manual Valve

2" Manual Valve

4" Manual Valve

4" Hydraulic Valve



Internal Hydrostatic Test Certificate

Dallas ries Ash 0/2017 OKC 21450 60197	Hose Special Hose Assembly Type Certification Hose Grade Hose Working Pressure Hose Lot # and Date Code Hose I.D. (Inches)	Choke & Kill API 7K/FSL LEVEL2 Mud 10000 11469-04/14
ries Ash 0/2017 OKC 21450 60197	Certification Hose Grade Hose Working Pressure Hose Lot # and Date Code	API 7K/FSL LEVEL2 Mud 10000
0/2017 OKC 21450 60197	Hose Grade Hose Working Pressure Hose Lot # and Date Code	Mud 10000
OKC 21450 60197	Hose Working Pressure Hose Lot # and Date Code	10000
21450 50197	Hose Lot # and Date Code	
0197	**************************************	11469-04/14
	(1103E 1.D. (Inches)	1
	Hose O.D. (Inches)	3"
Feet	Armor (yes/no)	5.23"
7 AM (2 12 AM 12 12 2 2 2		Yes
	The state of the s	ALCED TO THE
	End B	
X64WB	Stem (Part and Revision #)	R3.0X64WB
	Stem (Heat #)	·
)X5125	Ferrule (Part and Revision #)	RF3.0X5125
A5631	Ferrule (Heat #)	37DA5631
16 10K	Connection (Part #)	4-1/16 10K
	Connection (Heat #)	
	Nut (Part#)	
	Nut (Heat #)	
37"	Dies Used	5.37"
tatic Te	st Requirements	
,000	The second secon	with ambient water
3/4	temperature.	
	X64WB DX5125 A5631 16 10K 37'' Static Te	Fittings End B X64WB Stem (Part and Revision #) Stem (Heat #) DX5125 Ferrule (Part and Revision #) A5631 Ferrule (Heat #) 16 10K Connection (Part #) Connection (Heat #) Nut (Part #) Nut (Part #) Nut (Heat #) 37" Dies Used Static Test Requirements 000 Hose assembly was tested



Midwest Hose & Specialty, Inc.

	Certificati	e of Conformity
Customer: Dallas		Customer P.O.# 360197
Sales Order # 321450		Date Assembled: 3/30/2017
	Spec	ifications
Hose Assembly Type:	Choke & Kill	Rig # N/A
Assembly Serial #	388434-2	Hose Lot # and Date Code 11469-04/14
Hose Working Pressure (psi)	10000	Test Pressure (psi) 15000
Hose Assembly Description:	CK	48-SS-10K-6410K-6410K-25.00'-W/LIFTERS
We hereby certify that the above to the requirements of the purch	e material supplied j ase order and curre	for the referenced purchase order to be true according ent industry standards.
Supplier: Midwest Hose & Specialty, Inc. 3312 S I-35 Service Rd	· · · · · · · · · · · · · · · · · · ·	
Oklahoma City, OK 73129		
Comments:		
Approved By	,	Date
Chalos 1		3/31/2017

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).

Intermediate #3 Casing

Collapse: DF_c=1.125

- Partial Internal Evacuation: Collapse force equal to the mud gradient in which the casing will be run (0.47 psi/ft). The effects of axial load on collapse will be considered. Internal force equal to gas gradient over half of setting depth and mud gradient with which the next hole section will be run below that (0.65 psi/ft).
- Cementing: Collapse force equal to the gradient of planned cement slurries to planned depths and mud gradient in which the casing will be run above that (0.47 psi/ft) and an internal force equal to mud gradient of displacement fluid (0.43 psi/ft).

Burst: DF_b=1.125

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

Tensile: DF_t=1.8

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

Production Casing

Collapse: DF_C=1.125

• Full Internal Evacuation: Collapse force equal to the mud gradient in which the casing will be run (0.65 psi/ft). The effects of axial load on collapse will be considered.

• Cementing: Collapse force equal to the gradient of planned cement slurries to planned depths and mud gradient in which the casing will be run above that (0.65 psi/ft) and an internal force equal to mud gradient of displacement fluid (0.43 psi/ft).

Burst: DF_b=1.125

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

Tensile: DF_t=1.8

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

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

July 15 2015



Size: 5.500 in.

Wall: 0.361 in.

Weight: 20.00 lbs/ft

Grade: P110-IC

Min. Wall Thickness: 87.5 %

Connection: TenarisXP™ BTC **Casing/Tubing**: CAS

Coupling Option: REGULAR

Operating Torque

21500 ft-lbs

PIPE BODY DATA **GEOMETRY** Standard Drift Nominal OD 5.500 in. Nominal Weight 20.00 lbs/ft 4.653 in. Diameter Special Drift Nominal ID 4.778 in. Wall Thickness 0.361 in. N/A Diameter Plain End Weight 19.83 lbs/ft PERFORMANCE Body Yield **641** x 1000 lbs Internal Yield 12630 psi **SMYS 110000** psi Strength Collapse 12100 psi TENARISXP™ BTC CONNECTION DATA **GEOMETRY** Connection OD 6.100 in. Coupling Length 9,450 in. Connection ID 4.766 in. Critical Section 5.828 sq. in. Threads per in. 5.00 Make-Up Loss 4.204 in. Area PERFORMANCE Internal Pressure **641** x 1000 Tension Efficiency 100 % Joint Yield Strength 12630 psi Capacity⁽¹⁾ Structural Structural 641 x 1000 Structural 100 % Compression .Compression 92 º/100 ft lbs Bending⁽²⁾ Efficiency Strength External Pressure 12100 psi Capacity ESTIMATED MAKE-UP TORQUES(3) Minimum 11270 ft-lbs Optimum 12520 ft-lbs Maximum 13770 ft-lbs

Yield Torque

OPERATIONAL LIMIT TORQUES

23900 ft-lbs

BLANKING DIMENSIONS

Blanking Dimensions

- (1) Internal Pressure Capacity related to structural resistance only. Internal pressure leak resistance as per section 10.3 API 5C3 / ISO 10400 2007.
- (2) Structural rating, pure bending to yield (i.e no other loads applied)
- (3) Torque values calculated for API Modified thread compounds with Friction Factor=1. For other thread compounds please contact us at licensees@oilfield.tenaris.com. Torque values may be further reviewed. For additional information, please contact us at contact-tenarishydril@tenaris.com

A... .

Issued on: 12 Janv. 2017 by T. DELBOSCO

VRCC 16-1177 Rev02 for Houston Field Service

DATA ARE INFORMATIVE ONLY. BASED ON SI_PD-101836 P&B

Connection Data Sheet

-	OD	Weight	Wall Th.	Grade	API Drift	Connection
-	7 5/8 in.	29.70 lb/ft	0.375 in.	P110 EC	6.750 in.	VAM® HTF NR

PIPE PROPERTIES			
Nominal OD	7.625 in.		
Nominal ID	6.875 in.		
Nominal Cross Section Area	8.541 sqin.		
Grade Type	Enhanced API		
Min. Yield Strength	125 ksi		
Max. Yield Strength	140 ksi		
Min. Ultimate Tensile Strength	135 ksi		
Tensile Yield Strength	1 068 klb		
Internal Yield Pressure	10 760 psi		
Collapse pressure	7 360 psi		

CONNECTION PROPERTIES		
Connection Type	Premium Integral Flush	
Connection OD (nom)	7.701 in.	
Connection ID (nom)	6.782 in.	
Make-Up Loss	4.657 in.	
Critical Cross Section	4.971 sqin.	
Tension Efficiency	58 % of pipe	
Compression Efficiency	72.7 % of pipe	
Compression Efficiency with Sealability	34.8 % of pipe	
Internal Pressure Efficiency	100 % of pipe	
External Pressure Efficiency	100 % of pipe	

CONNECTION PERFORMANCES		
Tensile Yield Strength	619 klb	
Compression Resistance	778 klb	
Compression with Sealability	372 klb	
Internal Yield Pressure	10 760 psi	
External Pressure Resistance	7 360 psi	
Max. Bending	44 °/100ft	
Max. Bending with Sealability	17 °/100ft	

TORQUE VALUES				
Min. Make-up torque	9 600 ft.lb			
Opti. Make-up torque	11 300 ft.lb			
Max. Make-up torque	13 000 ft.lb			
Max. Torque with Sealability	58 500 ft.lb			
Max. Torsional Value	73 000 ft.lb			

VAM® HTF™ (High Torque Flush) is a flush OD integral connection providing maximum clearance along with torque strength for challenging applications such as extended reach and slim hole wells, drilling liner / casing, liner rotation to acheive better cementation in highly deviated and critical High Pressure / High Temperature wells.

Looking ahea on the outcoming testing industry standards, VAM® decided to create an upgraded design and launch on the market the VAM® HTF-NR as the new standard version of VAM® extreme high torque flush connection. The VAM® HTF-NR has extensive tests as per API RP 5C5:2015 CAL II which include the gas sealability having load points with bending, internal pressure and high temperature at 135°C.

Do you need help on this product? - Remember no one knows VAM® like VAM®

canada@vamfieldservice.com usa@vamfieldservice.com mexico@vamfieldservice.com brazil@vamfieldservice.com uk@vamfieldservice.com dubai@vamfieldservice.com nigeria@vamfieldservice.com angola@vamfieldservice.com china@vamfieldservice.com baku@vamfieldservice.com singapore@vamfieldservice.com australia@vamfieldservice.com

Over 180 VAM® Specialists available worldwide 24/7 for Rig Site Assistance

Other Connection Data Sheets are available at www.vamservices.com

Vallourec Group



. | .

December 31 2015



Connection: TenarisXP® BTC

Size: 4.500 in. Wall: 0.290 in.

Weight: 13.50 lbs/ft

Grade: P110-ICY

Min. Wall Thickness: 87.5 %

Tenaris

Casing/Tubing: CAS

Coupling Option: REGULAR Standard Drift Nominal OD 4.500 in. Nominal Weight 13.50 lbs/ft 3.795 in. Diameter Special Drift Nominal ID 3.920 in. Wall Thickness 0.290 in. N/A Diameter Plain End Weight 13.05 lbs/ft Body Yield Strength 479 x 1000 lbs Internal Yield 14100 psi SMYS 125000 psi Collapse 11620 psi Connection OD 5.000 in. Coupling Length 9.075 in. Connection ID 3.908 in. Critical Section Area 3.836 sq. in. Threads per in. 5.00 Make-Up Loss 4.016 in. Internal Pressure Tension Efficiency 100 % Joint Yield Strength 479 x 1000 lbs 14100 psi Capacity⁽¹⁾ Structural Structural Structural Compression 100 % 479 x 1000 lbs 127 °/100 ft Compression Strength Bending^{(2).} Efficiency External Pressure 11620 psi Capacity Minimum 6950 ft-lbs Optimum 7720 ft-lbs Maximum 8490 ft-lbs Operating Torque 10500 ft-lbs Yield Torque 12200 ft-lbs **Blanking Dimensions**



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
 - o Green Flag Normal Safe Operation Condition
 - o 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)

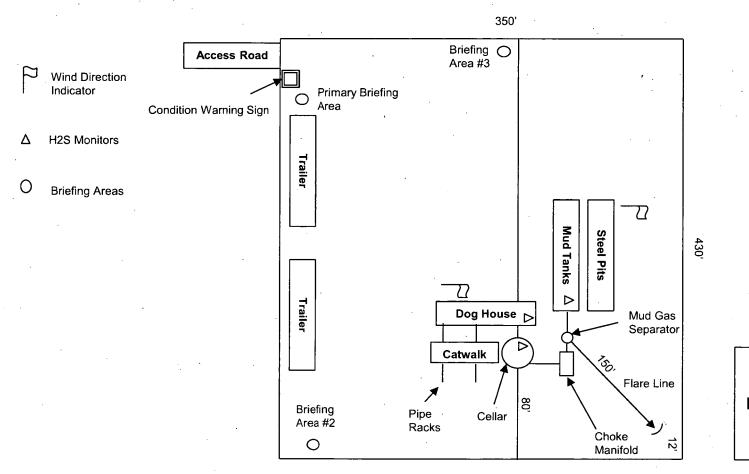
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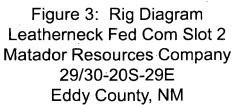
Exhibit E-6: H2S Contingency Plan Emergency Contacts

Leatherneck 30 Federal #121H Matador Resources Company Sec. 29-30, 20S, 29E Eddy Co., NM

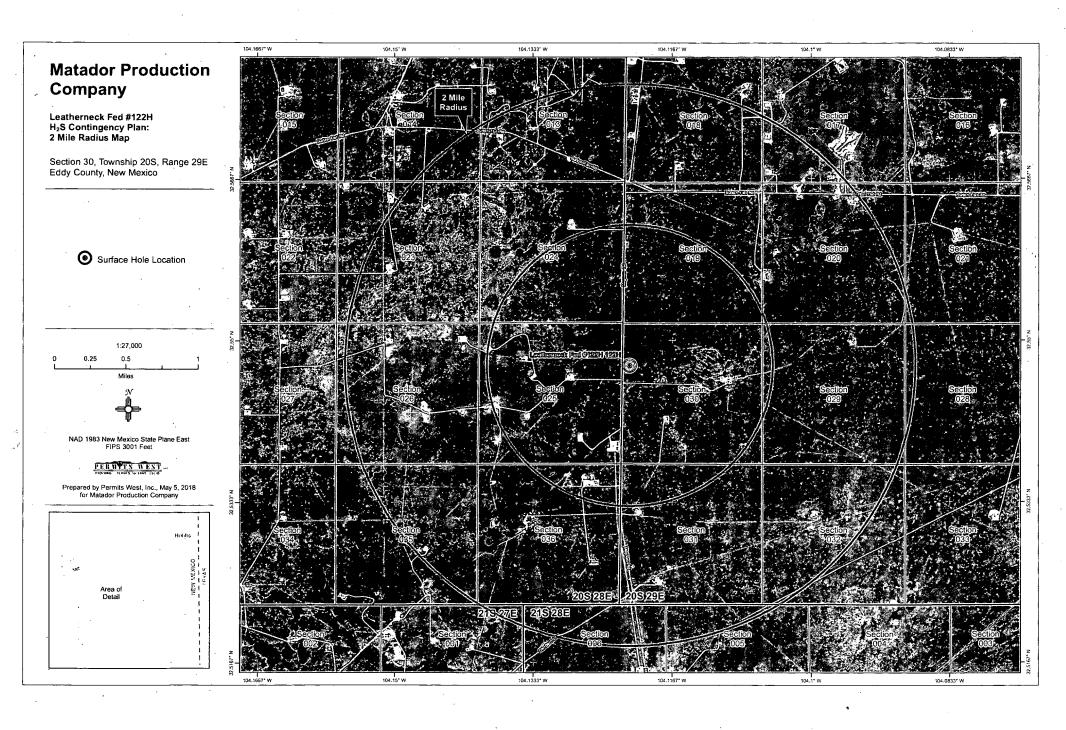
Company Office			
Matador Resources Company	(972)-371-5200		
Key Personnel			
Name	Title	Office	Mobile ·
Billy Goodwin	Vice President Drilling	972-371-5210	817-522-2928
Gary Martin	Drilling Superintendent		601-669-1774
Dee Smith	Drilling Superintendent	972-371-5447	972-822-1010
Patrick Walsh	Drilling Engineer	972-371-5291	626-318-5808
Gred Deevers	Construction Superintendent		405-431-9527
Jimmy Benefield	Construction Superintendent		318-548-6659
<u>Artesia</u>			
Ambulance		911	
State Police		575-746-2703	
City Police		575-746-2703	
Sheriff's Office	•	575-746-9888	
Fire Department	•	575-746-2701	
Local Emergency Planning Commit	tee	575-746-2122	
New Mexico Oil Conservation Divis	ion	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 Commit	575-887-6544	i	
New Mexico Oil Conservation Divis	575-887-6544		
Santa Fe			
New Mexico Emergency Response	505-476-9600		
New Mexico Emergency Response	505-827-9126		
New Mexico State Emergency Ope	505-476-9635		
National			
National Emegency Response Cent	800-424-8802		
<u>Medical</u>			
Flight for Life- 4000 24th St.; Lubbo	806-743-9911		
Aerocare- R3, Box 49F; Lubbock, TX	806-747-8923		
Med Flight Air Amb- 2301 Yale Blvo	505-842-4433		
SB Air Med Service- 2505 Clark Car	505-842-4949		
<u>Other</u>			
Boots & Coots IWC		800-256-9688	or 281-931-888
Cudd Pressure Control	432-699-0139	or 432-563-335	
Haliburton		575-746-2757	
B.J. Services	•	575-746-3569	

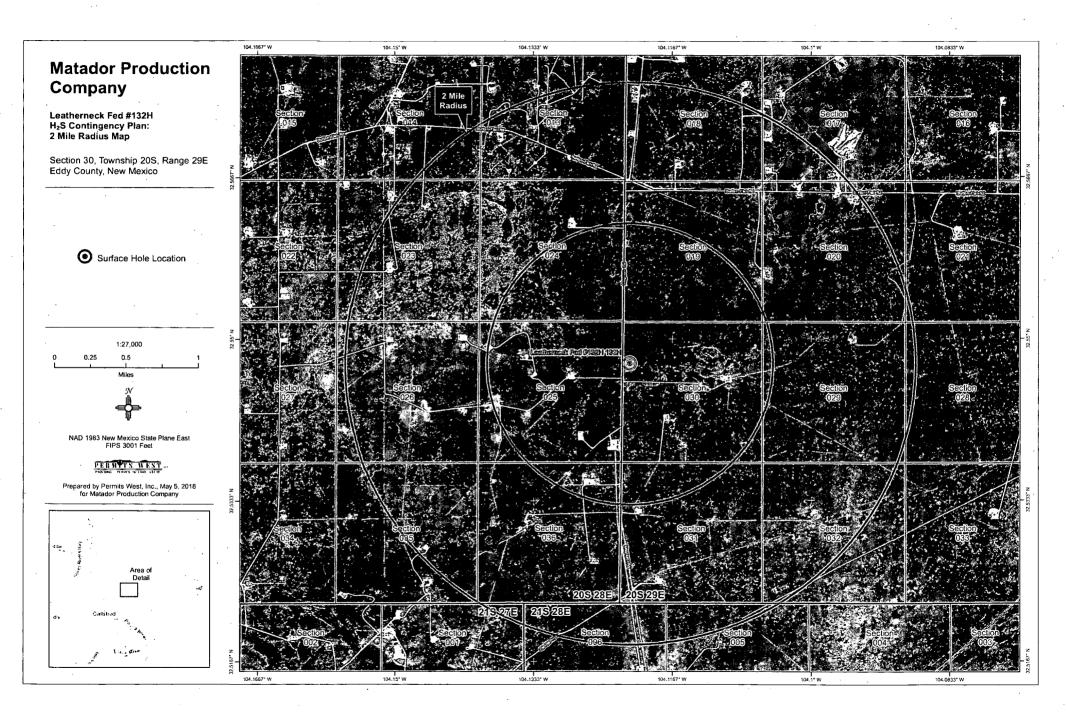
Rig Diagram

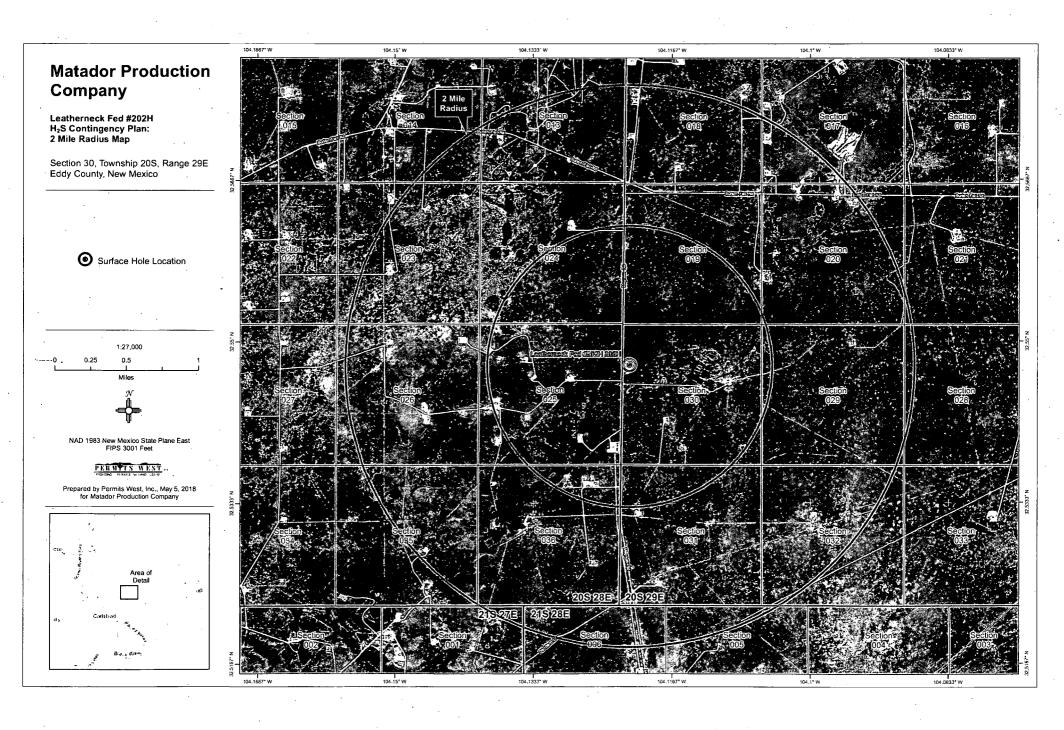










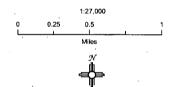


Matador Production Company

Leatherneck Fed #222H H₂S Contingency Plan: 2 Mile Radius Map

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

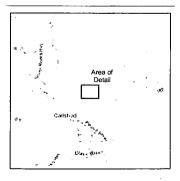
Surface Hole Location

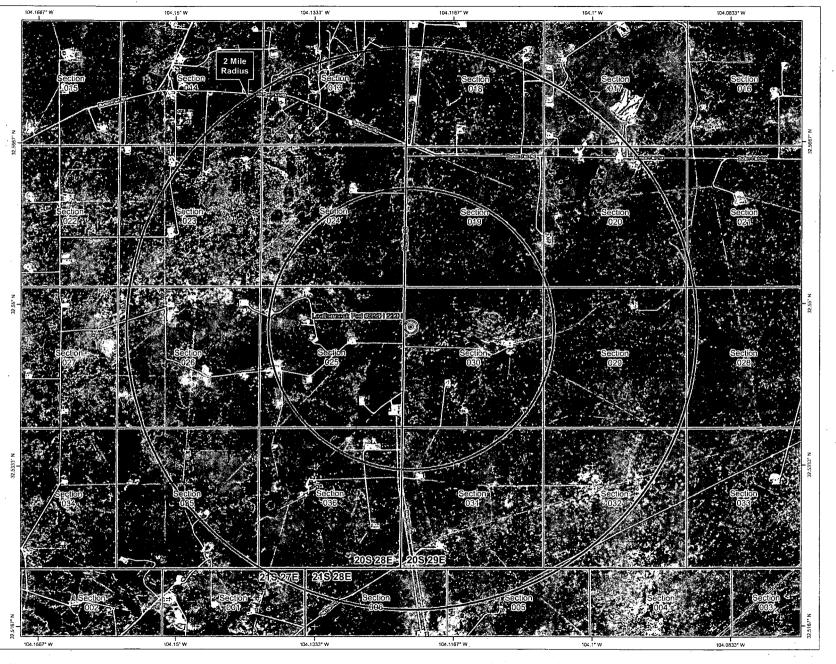


NAD 1983 New Mexico State Plane East FIPS 3001 Feet

PERWITS 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

I.	INTRODUCTION			
II.	PURPOSE			
	A. Operating Procedures	5		
	B. Procedures to be Initiated Prior to reaching H2S Contingency Plan Compliance	6		
	C. Drilling Below Contingency Plan Depth	7		
	D. Procedures program	7		
III.	CONDITIONS & H ₂ S EMERGENCY PROCEDURES	10		
	A. Definition of Operational "Conditions"	10		
	B. H2S Emergency Procedures; In Scope Personnel	12		
	C. Instructions for Igniting the Well	16		
	D. Coring	17		
	E. Normal Operations	18		
IV.	SAFETY EQUIPMENT	21		
V.	TOXICITY OF VARIOUS GASES			
VI.	PROPERTIES OF GASES	24		
VII.	TREATMENT PROCEDURES FOR H2S POISONING	25		
VIII.	BREATHING AIR EQUIPMENT DRILLS ON/OFF DUTY	26		
IX.	HYDROGEN SULFIDE TRAINING CURRICULUM	27		
х.	FIT TEST	29		
XI.	H2S EQUIPMENT LIST			
XII.	EMERGENCY PHONE NUMBERS	32		
XIII.	EVACUATION OF GENERAL PUBLIC	37		
XIV.	SEPCO EMERGENCY PHONE NUMBERS AND			
	DIRECTIONS TO WELL SITE	38		
XV.	ROE MAP (RADIUS OF EXPOSURE)	39		
XVI.	RESIDENCE LIST WITHIN ROE	40		

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 H₂S 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 H₂S 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 H₂S 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 H₂S 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 H₂S 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 H₂S 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, H₂S monitors and detectors. Knowledge of the location of the H₂S 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 H₂S 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 H₂S 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 H₂S 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 H₂S presence. The Total Safety H2S Safety Technician or designee will continuously monitor the detectors and will reactivate the alarm if H₂S 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 H₂S 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 H₂S 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 H₂S 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 H₂S 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.

H₂S 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 H₂S 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 H₂S 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 H₂S well prior to an emergency situation.
- 4. Help anyone who is overcome or affected by the H₂S 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 H₂S 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 H₂S 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 H₂S 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 H₂S gas into the ambient air. Comply with the MRC Energy Co. Representative to physically suppress the release of H₂S gas at the actual release point.

8. Check all of MRC Energy Co.'s monitoring devices and increase gasmonitoring activities with the portable hand-operated H₂S 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 H₂S 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 H₂S, 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 H₂S Monitor is checked and verified with a portable H₂S 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 H₂S monitor is checked and verified with a portable H₂S 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 H₂S 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 H₂S and suppress it. Lime and H₂S scavenger shall be added to the mud as necessary.

4. Total H₂S 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 H₂S detector the alarm area indicated by the fixed H₂S monitor. Advise the Toolpusher/Driller and MRC Energy Co.'s well-site representative of findings. Record all findings.
- b. If H₂S is flared, check for sulfur dioxide (SO₂) 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 H₂S 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 (H₂S) will convert to sulfur dioxide (SO₂), 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 H₂S Technician of expected date to reach Contingency Plan implementation depth (Two (2) days prior to reaching suspected H₂S bearing zone) or prior to starting well work.
- 2. Ensure H₂S 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 H₂S drills/training are performed, if possible.

B. Toolpusher

- 1. Ensure that necessary H₂S 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 H₂S 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 H₂S 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 H₂S.

D. Total Safety H₂S 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 H₂S safety equipment to ensure that it is ready for emergency use:
 - Check pressure weekly for each shift on breathing apparatus (both 30-minute and hippacks) 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 H₂S 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 H₂S detectors.
 - Proper location and working order of H₂S 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

l adhal	Chemical	Specific		
Lethal Common Name ppm ⁴	Formula	Gravity ¹	PEL (OSHA) ²	STEL ³
Hydrogen Cyanide 300	HCN	0.94	10	150
Hydrogen Sulfide 600	H ₂ S	1.18	20 Pe	ak- 50ppm
Note: The ACGIH(7) red	commends a TW	A(6) value of 10	ppm as the TLV(5) for	H2S and an STEL of
Sulfur Dioxide 1000	SO ₂	2.21	. 2	5 ppm
Chlorine	CL ₂	2.45	1	
Carbon Monoxide 1000	СО	0.97	35	200/1 Hour .
Carbon Dioxide 10%	CO ₂	1.52	5000	- 5%
Methane	CH₄	0.55	90000	

¹ Air = 1.0

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 biannual 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

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.

VI. PROPERTIES OF GASES

A. <u>CARBON DIOXIDE</u>

- 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. <u>HYDROGEN SULFIDE</u>

- 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		RATION	EFFECTS
% H ₂ S	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 H₂S 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. SO₂ is produced during the burning of H₂S. Although SO₂ is heavier than air, it can be picked up by a breeze and carried downwind at elevated temperatures. Since SO₂ 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 SO₂:

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	

6. 1 1	
l tirst breath	
inst breath.	
	·

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

An H₂S 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 H₂S 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 H₂S 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 H₂S detectors (Mini Checks or equivalent).
- The "buddy system" and the procedure for rescuing a person overcome by H_2S .
- Responsibilities and duties.
- Location of H₂S safety equipment.
- Other parts of the "H₂S 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):_____ Size: (circle): XS . S \mathbf{M} L XLFIT 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):_____

MRC ENERGY CO.'S

Signature:	Date:
orginature	Date

XI. H₂S SAFETY SERVICES

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

RESPIRATORY SAFETY SYSTEMS

QTY DESCRIPTION

- 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

- 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
- 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

- 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

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

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

State Police (911)

State I viice (ZIII)		
Texas DPS Loving co. 225 N.Pecos	Office Number	432-377-2411
Mentone, Texas 79754		192 377 2111
Texas DPS Winkler Co.	•	
100 E Winkler	Office Number	432-586-3465
Kermit, Texas 79745		
Texas DPS Pecos Co.	Office Number	422 447 2522
148 N I-20 Frontage RD Pecos, Texas 79772	Office Number	432-447-3532
New Mexico State Police		
3300 W. Main St	Office Number	575-748-9718
Artesia, NM		
New Mexico State Police		
304 N. Canyon St	Office Number	575-885-3137
Carlsbad, NM 88220		
New Mexico State Police		
5100 Jack Gomez Blvd.	Office Number	575-392-5588
Hobbs, NM 88240		

Local Law Enforcement (911) (Sheriff)

Edear Daw Emorecinent (2	11) (Biletiti)	
Reeves Co. Sheriff		
500 N. Oak ST	Office Number	432-445-4901
Pecos, Texas 79722		
Winkler Co. Sheriff		
1300 Bellaire St.	Office Number	432-586-3461
Kermit, Texas 79745		·
Loving Co. Sheriff		
Courthouse	Office Number	432-377-2411
Mentone, Texas	·	
Lea Co. Sheriff		
1417 S. Commercial St.	Office Number	
Lovington, NM 88260		
Eddy Co. Sheriff		
305 N 7th St.	Office Number	575-766-9888
Artesia, NM 88210		
Eddy Co. Sheriff		•
305 N 7th St.	Office Number	575-746-9888
Carlsbad, NM 88220		

MRC ENERGY CO.'S

Federal & State Agencies

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

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 (SO₂). Under certain conditions this gas may be equally as dangerous as H₂S. A pump type detector device, which determines the percent of SO₂ in air through concentrations in ppm, will be available. Although normal air movement is sufficient to dissipate this material to safe levels, the SO₂ 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

4E/-\M

0.00

0.00

1600.00

2200.00

5931.50 6331.50

8704.27

9162.14

9614.29

19211.29

+N/-S

0.00

RKB Elevation:

Morthion

562947.00

0.00

0.00

6.00

6.00

0.00

0.00

45.80 90.00

90.00

Matador Resources Eddy County, NM Leatherneck Fed 202H Prelim Plan A GL:3,240' + KB:29'



Longitude

0.00

0.00

0.00 1.50 0.00

10.00

0.00

-104.1212797

US State Plane 1927 (Exact solution NAD 1927 (NADCON CONUS) Clarke 1866 New Mexico East 3001 Mean Sea Level

SECTION DETAILS- Lateral

0.00

1600.00

2198.90

5909.96

6309 23

8682.00

9092.65

9259 00

9259.00

Fasting

565342.00

0.00

0.00

205.58

0.00

0.00

100.78

90.05

90.05

Rig @ 3269.00usft (GL:3,240' + KB:29')

Latitude

32.5474706

0.00

0.00

-28.31

-380.13

-399 00

-399.00

-431.43

463 63

-472.00

202H elim Plan A ,240' + KB:29' Plane 1927 (Exact solution), 927 (NADCON CONUS)

0.00

0.00

-13.55

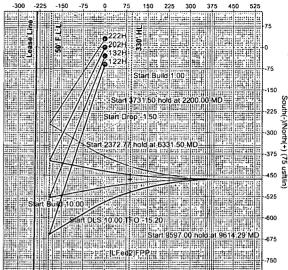
-181.97

-191 DD

-191.00

386.00

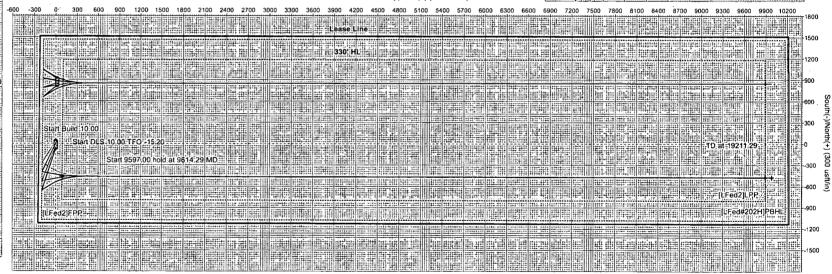
9983.00

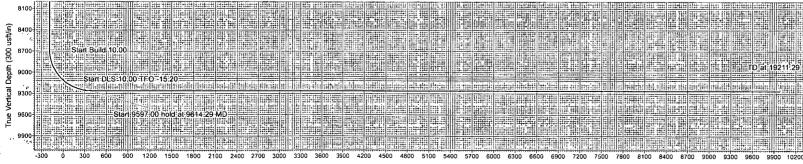


West(-)/East(+) (75 usft/in)

VSect 0.00 0.00 0.00 113.53 1-181.63 1-190.65 1-20.24 2386.41 19983.41

West(-)/East(+) (300 usft/in)







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

Vertical Section at 90.05° (400 usft/in)

1200

1600

2000

2400

2800

3200

3600

4000

4400

4800

5200

6000

6400

7200-

7600

8000

8400

8800

9200

9600-

-400 0

Hali

Start Drop 1 50

Start Build 10.00

Start DLS 10.00 TFO 15.20

400 800 1200 1600 2000

400 800 1200 1600 2000

Start 3731 50 hold at 2200 00 MD

Survey Report

Company:

Matador Resources

Project:

Eddy County, NM

Local Co-ordinate Reference:

Well 202H

Leatherneck Fed

TVD Reference: MD Reference:

Rig @ 3269.00usft (GL:3,240' + KB:29')

Site: Well:

202H

North Reference:

Rig @ 3269.00usft (GL:3,240' + KB:29')

Wellbore:

ОН

Survey Calculation Method:

Minimum Curvature

Design:

Prelim Plan A

Database:

WellPlanner1

Project

Eddy County, NM

Map System:

US State Plane 1927 (Exact solution)

NAD 1927 (NADCON CONUS)

System Datum:

Mean Sea Level

Geo Datum: Map Zone:

New Mexico East 3001

Leatherneck Fed

0.00 usft

Site Position:

Northing:

563,857.00 usft

Latitude:

32.5499720

From:

Map

Easting: Slot Radius: 565,361.00 usft

Longitude:

-104.1212121

Position Uncertainty:

13-3/16 "

Grid Convergence:

0.11 °

Well

202H

+N/-S

0.00 usft

HDGM

Northing: Easting:

562,947.00 usft 565,342.00 usft Latitude:

32.5474706

Position Uncertainty

+E/-W

0.00 usft 0.00 usft

Wellhead Elevation:

10/30/2017

0.00

Longitude:

-104.1212796

Magnetics

Well Position

Ground Level:

3,240.00 usft

OH Wellbore

Model Name Sample Date Declination (°)

Dip Angle

Field Strength

90.05

(nT) 48,154.90

Design

Prelim Plan A

Audit Notes:

Version:

Phase:

Tie On Depth:

Vertical Section:

Depth From (TVD)

PLAN

+N/-S (usft) +E/-W (usft)

Direction

0.00

0.00

0.00

(°)

Survey Tool Program From

(usft)

0.00

1,200.00

То (usft) 10/31/2017

8,700.00 Prelim Plan A (OH)

19,211.29 Prelim Plan A (OH)

Survey (Wellbore) 1,200.00 Prelim Plan A (OH)

Tool Name MWD+HDGM MWD+HDGM

MWD+HDGM

Description

OWSG MWD + HRGM

OWSG MWD + HRGM

OWSG MWD + HRGM

8,700.00 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	1 0.00	0.00	0.00

Survey Report

Company:

Matador Resources

Project:

Eddy County, NM

Site:

Leatherneck Fed

Well: Wellbore:

202Н ÒН

Design:

Prelim Plan A

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method: Database:

Well 202H

Rig @ 3269.00usft (GL:3,240' + KB:29')

Rig @ 3269.00usft (GL:3,240' + KB:29')

Grid

Minimum Curvature

WellPlanner1

anned Si	urvey										
M	easured Depth	Inclination	Azimuth	Vertical Depth	±N/-Q	±⊑/ \#/	Vertical Section	Dogleg Rate	Build Rate	Turn Rate	
	(úsft)	(°)	Azimuth (°)	(usft)	+N/-S (usft)	+E/-W (usft)	(usft)	(°/100usft)	(°/100usft)	(°/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.	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	
٠.	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	٠,	0.00	4 500 00		o óo	0.00	2.00	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	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	. 0.00	
	1,700.00	1.00	205.58	1,699.99	-0.79	-0.38	-0.38	1.00	1.00	0.00	
•	1,800.00	2.00	205.58	1,799.96	-3.15	-1.51	-1.50	1.00	1.00	0.00	
	1,900.00	3.00	205.58	1,899.86	-7.08	-3.39	-3.38	1.00	1.00	. 0.00	•
	2,000.00	4.00	205.58	1,999.68	-12.59	-6.03	-6.02	1.00	1.00	0.00	
	2,100.00	5.00	205.58	2,099.37	-19.67	-9.41	-9.40	1.00	1.00	0.00	
	2,200.00	6.00	205.58	2,198.90	-28.31	-13.55	-13.53	· 1.00	. 1.00	0.00	
	2,300.00	6.00	205.58	2,298.36	-37.74	-18.07	-18.03	0.00	0.00	0.00	
	2,400.00	6.00	205.58	2,397.81	-47.17	-22.58	-22.54	0.00	0.00	0.00	
	2,500.00	6.00	205.58	2,497.26	-56.60	-27.09	-27.04	0.00	0.00	0.00	
	2,600.00	6.00	205.58	2,596.71	-66.02	-31.61	-31.55	0.00	0.00	0.00	
	2,700.00	6.00	205.58	2,696.16	-75.45	-36.12	-36.05	0.00	0.00	0.00	
	2,800.00	6.00	205.58	2,795.62	-84.88	-40.63	-40.56	0.00	0.00	0.00	
	2,900.00	6.00	205.58	2,895.07	-94.31	-45.15	-45.06	0.00	0.00	0.00	
	3,000.00	6.00	205.58	2,994.52	-103.74	-49.66	-49.57	0.00	0.00	0.00	
	3,100.00	6.00	205.58	3,093.97	-103.74	-49.00 -54.17	-49.57 -54.07	0.00	0.00	0.00	
	3,200.00	6.00	205.58	3,193.43	-122.59	-54.17 -58.69	-54.07	0.00	0.00	0.00	
	3,300.00	6.00	205.58	3,193.43							
	3,400.00	6.00	205.58	3,292.88	-132.02 -141.45	63.20 -67.71	-63.08 -67.59	0.00 0.00	0.00 0.00	0.00 0.00	
		,						·	-		
	3,500.00	6.00	205.58	3,491.78	-150.88	-72.22	-72.09	0.00	0.00	0.00	
	3,600.00	6.00	205.58	3,591.23	-160.31	-76.74	-76.60	0.00	0.00	0.00	
	3,700.00	6.00	205.58	3,690.69	-169.73	-81.25	-81.10	0.00	0.00	0.00	
	3,800.00	6.00	205:58	3,790.14	-179.16	-85.76	-85.61	0.00	. 0.00	0:00	
	3,900.00	6.00	205.58	3,889.59	-188.59	-90.28	-90.11	0.00	0.00	0.00	
	4,000.00	6.00	205.58	3,989.04	-198.02	-94.79	-94.62	0.00	0.00	0.00	
	4,100.00	6.00	205.58	4,088.50	-207.45	-99.30	-99.12	0.00	0.00	0.00	
	4,200.00	6.00		4,187.95	-216.88	-103.82	-103.63	0.00	0.00	0.00	
	4,300.00	6.00	205.58	4,287.40	-226.30	-108.33	-108.13	0.00	0.00	. 0.00	
	4,400.00	6.00	205.58	4,386.85	-235.73	-112.84	-112.64	0.00	0.00	0.00	
:	4,500.00	6.00	205.58	4,486.30	-245.16	-117.36	-117.14	0.00	0.00	0.00	
,	4,600.00	6.00		4,585.76	-254.59	-121.87	-121.65	0.00		0.00	
•	4,700.00	6.00	205.58		-264.02	-126.38	-126.15	0.00	0.00	. 0.00	
	4,800.00	6.00	205.58	4,784.66	-273.45	-130.90	-130.66	0.00	0.00	0.00	
	4,900.00	6.00	205.58	4,884.11	-282.87	-135.41	-135.16	0.00	0.00	0.00	
	*										
•	5,000.00	6.00	205.58	4,983.57	-292.30	-139.92	-139.67	0.00	0.00	0.00	
	5,100.00	6.00	205.58	5,083.02	-301.73	-144.44	-144.17	0.00	0.00	0.00	

Survey Report

Company:

: Matador Resources

Project:

Eddy County, NM

Site:

Leatherneck Fed

Well: Wellbore: 202H

ОН

Local Co-ordinate Reference:

Survey Calculation Method:

TVD Reference:

Rig @ 3269.00usft (GL:3,240' + KB:29') Rig @ 3269.00usft (GL:3,240' + KB:29')

MD Reference: North Reference:

Grid

Minimum Curvature

Well 202H

Design:	Pre	lim Plan A	* _ *, + * * _ * * * * * * * * * * * * * * * *	envent te a	Database:			WellPlanner1	. <u> </u>	<u> </u>
lanned Sun	vey			• • • • • • • • • • • • • • • • • • • •		- · · · · · · · · · · · · · · · · · · ·			3 · · · · · · · · · · · · · · · · ·	
	sured epth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Vertical Section	Dogleg Rate	Build Rate	Turn Rate
	sft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)
5	,200.00	6.00	205.58	5,182.47	-311.16	-148.95	-148.68	0.00	0.00	0.00
5	,300.00	6.00	205.58	5,281.92	-320.59	-153.46	-153.18	0.00	0.00	0.00
5	,400.00	6.00	205.58	5,381.37	-330.02	-157.98	-157.69	0.00	0.00	0.00
5	,500.00	6.00	205.58	5,480.83	-339.44	-162.49	-162.19	0.00	0.00	. 0.00
5	,600.00	6.00	205.58	5,580.28	-348.87	-167.00	-166.70	0.00	0.00	0.00
5	,700.00	6.00	205.58	5,679.73	-358.30	-171.52	-171.20	0.00	0.00	0.00
	,800.00	6.00	205.58	5,779.18	-367.73	-176.03	-175.71	0.00	0.00	0.00
	,900.00	6.00	205.58	5,878.64	-377.16	-180.54	-180.21	0.00	0.00	0.00
5	,931.50	6.00	205.58	5,909.96	-380.13	-181.97	-181.63	0.00	0.00	0.00
	,000.00	4.97	205.58	5,978.15	-386.03	-184.79	-184.46	1.50		
									-1.50 1.50	0.00
	,100.00	3.47	205.58	6,077.87	-392.67	-187.97	-187.63	1.50	-1.50	0.00
	,200.00	1.97	205.58	6,177.76	-396.96	-190.02	-189.68	1.50	-1.50	0.00
6	,300.00	0.47	205.58	6,277.73	-398.88	-190.94	-190.60	1.50	-1.50	0.00
	,331.50	0.00	0.00	6,309.23	-399.00	-191.00	-190.65	1.50	-1.50	0.00
6	,400.00	0.00	0.00	6,377.73	-399.00	-191.00	-190.65	0.00	0.00	0.00
6	,500.00	0.00	0.00	6,477.73	-399.00	-191.00	-190.65	0.00	0.00	0.00
. 6	,600.00	0.00	0.00	6,577.73	-399.00	-191.00	-190.65	0.00	0.00	0.00
6	,700.00	0:00	0.00	6,677.73	-399.00	-191.00	-190.65	0.00	0.00	0.00
6	,800.00	0.00	0.00	6,777.73	-399.00	-191.00	-190.65	0.00	0.00	0.00
6	,900.00	0.00	0.00	6,877.73	-399.00	-191.00	-190.65	0.00	0.00	0.00
7	,000.00	0.00	0.00	6,977.73	-399.00	-191.00	-190.65	0.00	0.00	0.00
	,100.00	0.00	0.00	7,077.73	-399.00	-191.00	-190.65	0.00	0.00	0.00
	,200.00	0.00	0.00	7,177.73	-399.00	-191.00	-190.65	0.00	0.00	0.00
7	,300.00	0.00	0.00	7,277.73	-399.00	-191.00	-190.65	0.00	0.00	0.00
	,400.00	0.00	0.00	7,277.73	-399.00			0.00	0.00	0.00
	500.00					-191.00	-190.65	0.00	0.00	0.00
		. 0.00	0.00	7,477.73	399.00	-191.00	-190.65	0.00	0.00	0.00
	,600.00 ,700.00	0.00 0.00	0.00 0.00	7,577.73 7,677.73	-399.00 -399.00	-191.00 -191.00	-190.65 -190.65	0.00	0.00 0.00	0.00 0.00
_		_ :_								
	,800.00	0.00	0.00	. 7,777.73	-399.00	-191.00	-190.65	0.00	0.00	0.00
	,900.00	0.00	0.00	7,877.73	-399.00	-191.00	-190.65	0.00	0.00	0.00
	,000.00	0.00	0.00	7,977.73	-399.00	-191.00	-190.65	0.00	0.00	0.00
	,100.00 -	0.00	0.00	8,077.73	-399.00	-191.00	-190.65	0.00	0.00	0.00
8	,200.00 .	0.00	0.00	8,177.73	-399.00	-191.00	190.65	0.00	0.00 .	0.00
	,300.00	0.00	0.00	8,277.73	-399.00	-191.00	-190.65	0.00	0.00	0.00
8	,400.00	0.00	0.00	8,377.73	-399.00	-191.00	-190.65	0.00	0.00	0.00
8	,500.00	0.00	0.00	8,477.73	-399.00	-191.00	-190.65	0.00	0.00	0.00
8	,600.00	0.00	0.00	8,577.73	-399.00	-191.00	-190.65	0.00	0.00	0.00
8	,704.27	0.00	0.00	8,682.00	-399.00	-191.00	-190.65	0.00	0.00	0.00
8	,750.00	4.57	100.78	8,727.68	-399.34	-189.21	-188.86	10.00	10.00	0.00
	,800.00	9.58	100.78	8,777.29	-400.49	-183.16	-182.81	10.00	10.00	0.00
	,850.00	14.58	100.78	8,826.17	-402.45	-172.89	-172.54	10.00	10.00	0.00
	,900.00	19.58	100.78	8,873.95	-402.45 -405.19	-172.69	-172.54 -158.12			
								10.00	10.00	0.00
8,	,950.00	24.58	100.78	8,920.26	-408.71	-140.01	-139.66	10.00	10.00	0.00

Survey Report

Company:

Matador Resources

Project:

Eddy County, NM

Site:

Leatherneck Fed

Well: Wellbore: .202H

Design:

ОН Prelim Plan A Local Co-ordinate Reference:

TVD Reference:

MD Reference: North Reference: Rig @ 3269.00usft (GL:3,240' + KB:29') Grid

Survey Calculation Method:

Database:

Minimum Curvature , WellPlanner1

Well 202H

Rig @ 3269.00usft (GL:3,240' + KB:29')

22										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
9,000.00	29.58	100.78	8,964.77	-412.96	-117.66	-117.30	10.00	10.00	0.00	
9,050.00	34.58	100.78	9,007.12	-417.92	-117.00 -91.58	-91.22	10.00	10.00	0.00	
9,100.00		100.78	•							
	39.58		9,047.00	-423.56	-61.98	-61.61	10.00	10.00	0.00	
9,150.00	44.58	100.78	9,084.10	-429.82	-29.07	-28.69	10.00	10.00	0.00	
9,162.14	45.80	100.78	9,092.65	-431.43	-20.61	-20.24	10.00	10.00	0.00	
9,200.00	49.46	99.47	9,118.16	-436.34	6.92	7.30	10.00	9.67	-3.45	
9,250.00	54.31	97.95	9,149.02	-442.28	45.80	46.18	10.00	9.71	-3.04	
9,300.00	59.19	96.60	9,176.42	-447.56	87.26	87.65	10.00	9.75	-2.69	
9,350.00	64.07	95.39	9,200.18	-452.14	131.00	131.40	10.00	9.77	-2.43	
9,400.00	68.97	94.27	9,220.09	-456.00	176.69	177.08	10.00	9.79	-2.24	
9,450.00	73.87	93.22	9,236.02	-459.09	223.96	224.36	10.00	9.80	- 2.09	
9,500.00	78.78	92.23	9,247.84	-461.39	272.47	272.88	10.00	9.81	-1.99	
9,550.00	83.69	91.26	9,255,46	-462.89	321.85	322.26	10.00	9.82	-1.93	
9,600.00	88.60	90.32	9,258.83	-462.69 -463.58	371.72	322.26 372.12	10.00	9.82 9.82	-1.93 -1.89	
9,614.29	90.00	90.05	9,259.00	-463.63	386.00	386.41	10.00	9.82 9.82	-1.89 -1.88	
		•								
9,700.00	90.00	90.05	9,259.00	-463.70	471.72	472.12	0.00	0.00	0.00	
9,800.00	90.00	90.05	9,259.00	-463.79	571.72	572.12	0.00	0.00	0.00	
9,900.00	90.00	90.05	9,259.00	-463.87	671.72	672.12	0.00	0.00	. 0.00	
10,000.00	90.00	90.05	9,259.00	-463.96	771.72	772.12	0.00	0.00	0.00	
10,100.00	90.00	90.05	9,259.00	-464.05	871.72	872.12	0.00	0.00	0.00	
10,200.00	90.00	90.05	9,259.00	-464.14	971.72	972.12	0.00	0.00	0.00	
10,300.00	90.00	90.05	9,259.00	-464.22	1,071.72	1,072.12	0.00	0.00	0.00	
10,400.00	90.00	90.05	9,259.00	-464.31	1,171.72	1,172.12	0.00	0.00	0.00	
10,500.00	90.00	90.05	9,259.00	-464.40	1,271.72	1,272.12	0.00	0.00	0.00	
10,600.00	90.00	90.05 -	9,259.00	-464.49	1,371.72	1,372.12	. 0.00	0.00	0.00	
10,700.00	90.00	90.05	9,259.00	-464.57	1,471.72	1,472.12	0.00	0.00	0.00	
10,800.00	90.00	90.05	9,259.00	-464.66	1,471.72	1,572.12	0.00	0.00		
10,900.00	90.00	90.05	9,259.00	-464.75	1,671.72	1,672.12	0.00	0.00	0.00	
11,000.00	90.00	90.05	9,259.00	-464.83	1,771.72	1,772.12	0.00	0.00	0.00	
11,100.00	90.00	90.05	9,259.00	-464.92	1,871.72	1,872.12	0.00	0.00	0.00 0.00	
				•	·					
11,200.00	90.00	90.05	9,259.00	-465.01	1,971.72	1,972.12	0.00	0.00	0.00	
11,300.00	,90.00	90.05	9,259.00	- 465.10	2,071.72	2,072.12	0.00	0.00	0.00	
11,400.00	' 90.00	. 90.05	9,259.00	-465.18	2,171.72	2,172.12	0.00	0.00	0.00	
11,500.00	90.00	90.05	9,259.00	-465.27	2,271.72	2,272.12	0.00	0.00	0.00	
11,600.00	90.00	90.05	9,259.00	-465.36	2,371.72	2,372.12	0.00	0.00	0.00	
11,700.00	90.00	90.05	9,259.00	-465.45	2,471.72	2,472.12	0.00	0.00	0.00	
11,800.00	90.00	90.05	9,259.00	-465.53	2,571.72	2,572.12	0.00	0.00	0.00	
11,900.00	90.00	90.05	9,259.00	-465.62	2,671.72	2,672.12	0.00	0.00	0.00	
12,000.00	90.00	90.05	9,259.00	-465.71	2,771.72	2,772.12	0.00	0.00	0.00	
12,100.00	90.00	90.05	9,259.00	-465.79	2,871.72	2,872.12	0.00	0.00	0.00	
12,200.00	90.00	90.05	9,259.00	-465.88	2,971.72	2,972.12	0.00	0.00	0.00	
12,300.00	90.00	90.05	9,259.00	-465.97	3,071.72	3,072.12	0.00	0.00	0.00	
12,400.00	90.00	90.05	9,259.00	-466.06	3,171.72	3,172.12	0.00	0.00	0.00	
12,500.00	90.00	90.05	9,259.00	-466.14	3,271.72	3,272.12°	0.00	0.00	. 0.00	

Survey Report

Company:

Matador Resources

Project:

Eddy County, NM

Site:

Leatherneck Fed

Well: Wellbore: 202H

Design:

ЮН Prelim Plan A Local Co-ordinate Reference:

TVD Reference:

Rig @ 3269.00usft (GL:3,240' + KB:29')

MD Reference: North Reference:

Rig @ 3269.00usft (GL:3,240' + KB:29')

Grid

Survey Calculation Method:

Minimum Curvature

Well 202H

Database:

WellPlanner1

Measured			Vertical			Vertical	Dogleg	Build	Turn
Depth (usft)	Inclination (°)	Azimuth (°)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Section (usft)	Rate (°/100usft)	Rate (°/100usft)	Rate (°/100usft)
12,600.00	90.00	90.05	9,259.00	-466.23	3,371.72	3,372.12	0.00	0.00	0.00
12,700.00	90.00	90.05	9,259.00	-466.32	3,471.72	3,472.12	0.00	0.00	0.00
12,800.00	90.00	90.05	9,259.00	-466.41	3,571.72	3,572.12	0.00	0.00	0.00
12,900.00	90.00	90.05	9,259.00	-466.49	3,671.72	3,672.12	0.00	0.00	0.00
13,000.00	90.00	90.05	9,259.00	-466.58	3,771.71	3,772.12	0.00	0.00	0.00
13,100.00	90.00	90.05	9,259.00	-466.67	3,871.71	3,872.12	0.00	0.00	0.00
13,200.00	90.00	90.05	9,259.00	-466.75	3,971.71	3,972.12	0.00	0.00	. 0.00
13,300.00	90.00	90.05	9,259.00	-466.84	4,071.71	4,072.12	0.00	0.00	0.00
13,400.00	90.00	90.05	9,259.00	-466.93	4,171.71	4,172.12	0.00	0.00	0.00
13,500.00	90.00	90.05	9,259.00	-467.02	4,271.71	-4,272.12	. 0.00	0.00	. 0.00
13,600.00	90.00	90.05	9,259.00	-467.10	4,371.71	4,372.12	0.00	0.00	0.00
13,700.00	90.00	90.05	9,259.00	-467.19	4,471.71	4,472.12	0.00	0.00	0.00
13,800.00	90.00	90.05	9,259.00	-467.28	4,571.71	4,572.12	0.00	0.00	0.00
13,900.00	90.00	90.05	9,259.00	-467.37	4,671.71	4,672.12	0.00	0.00	0.00
14,000.00	90.00	90.05	9,259.00	-467.45	4,771.71	4,772.12	0.00	0.00	0.00
14,100.00	90.00	90.05	9,259.00	-467.54	4,871.71	4,872.12	0.00	0.00	0.00

-467.71

-467.80

-467.89

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Survey Report

Company:

Matador Resources

Project:

Eddy County, NM

Site: Well: Leatherneck Fed 202H

Wellbore:

'ОН

Design: Prelim Plan A Local Co-ordinate Reference:

Well 202H

TVD Reference: MD Reference:

Rig @ 3269.00usft (GL:3,240' + KB:29') Rig @ 3269.00usft (GL:3,240' + KB:29')

North Reference: Grid

Survey Calculation Method:

Minimum Curvature

Database: WellPlanner1

ned 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)	
16,900.00	90.00	90.05	9,259.00	-469.98	7,671.71	7,672.12	0.00	0.00	0.00	•
17,000.00	90.00	90.05	9,259.00	-470.07	7,771.71	7,772.12	0.00	0.00	0.00	
17,100.00	90.00	90.05	9,259.00	-470.16	7,871.71	7,872.12	0.00	0.00	0.00	
17,200.00	90.00	90.05	9,259.00	-470.24	7,971.71	7,972.12	0.00	0.00	0.00	
17,300.00	90.00	90.05	9,259.00	-470.33	8,071.71	8,072.12	0.00	0.00	0.00	
17,400.00	90.00	90.05	9,259.00	-470.42	8,171.71	8,172.12	0.00	0.00	0.00	
17,500.00	90.00	90.05	9,259.00	-470.51	8,271.71	8,272.12	0.00	0.00	0.00	
17,600.00	90.00	90.05	9,259.00	-470.59	8,371.71	8,372.12	0.00	0.00	0.00	
17,700.00	90.00	90.05	9,259.00	-470.68	8,471.71	8,472.12	0.00	0.00	0.00	
17,800.00	90.00	90.05	9,259.00	-470.77	8,571.71	8,572.12	0.00	0.00	0.00	
17,900.00	90.00	90.05	9,259.00	-470.86	8,671.71	8,672.12	0.00	0.00	0.00	
18,000.00	90.00	90.05	9,259.00	-470.94	8,771.71	8,772.12	0.00	0.00	0.00	
18,100.00	90.00	90.05	9,259.00	- 471.03	8,871.71	8,872.12	0.00	0.00	0.00	
18,200.00	90.00	90.05	9,259.00	-471.12	8,971.71	8,972.12	0.00	0.00	0.00	
18,300.00	90.00	90.05	9,259.00	471.20	9,071.71	9,072.12	0.00	0.00	0.00	
18,400.00	90.00	90.05	9,259.00	-471.29	9,171.71	9,172.12	0.00	0.00	0.00	
18,500.00	90.00	90.05	9,259.00	-471.38	9,271.71	9,272.12	0.00	0.00	0.00	
18,600.00	90.00	90.05	9,259.00	-471.47	9,371.71	9,372.12	0.00	0.00	0.00	
18,700.00	90.00	90.05	9,259.00	-471.55	9,471.71	9,472.12	. 0.00	0.00	0.00	
18,800.00	90.00	90.05	9,259.00	-471.64	9,571.71	9,572.12	0.00	0.00	0.00	
18,900.00	90.00	90.05	9,259.00	-471.73	9,671.71	9,672.12	0.00	0.00	0.00	
19,000.00	90.00	90.05	9,259.00	-471.82	9,771.71	9,772.12	0.00	0.00	0.00	
19,100.00	90.00	90.05	9,259.00	-471.90	9,871.71	9,872.12	. 0.00	0.00	0.00	
19,200.00	90.00	90.05	9,259.00	-471.99	9,971.71	9,972.12	0.00	0.00	0.00	
19,211.29	90.00	90.05	9,259.00	-472.00	9,983.00	9,983.41	0.00	0.00	0.00	

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
LFed2]LPP - plan misses targe - Point	0.00 It center by 9258	0.00 3.00usft at 1	1.00 9121.29usft I	-472.00 MD (9259.00	9,893.00 TVD, -471.92	562,475.00 N, 9893.00 E)	575,235.00	32.5461149	-104.089177
[LFed2]FPP - plan misses targe - Point	0.00 t center by 472.	0.00 46usft at 1.0	1.00 00usft MD (1.	-464.00 00 TVD, 0.00	89.00 N, 0.00 E)	562,483.00	565,431.00	32.5461947	-104,120993
LFed#202H]PBHL - plan hits target ce - Point	0.00 enter	0.00	9,259.00	-472.00	9,983.00	562,475.00	575,325.00	32.5461144	-104.088885

Checked By:	Approved By:	Date:	
			· · · · · · · · · · · · · · · · ·

Anticollision Report

Company:

Matador Resources

Project:

Eddy County, NM

Leatherneck Fed

Reference Site: Site Error: Reference Well:

0.00 usft 202H

Well Error: Reference Wellbore Reference Design:

0.00 usft ОН

Prelim Plan A

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method:

Output errors are at Database:

Offset TVD Reference:

Well 202H

Rig @ 3269.00usft (GL:3,240' + KB:29')

Rig @ 3269.00usft (GL:3,240' + KB:29')

Grid Minimum Curvature

2.00 sigma

WellPlanner1 Offset Datum

Reference

Prelim Plan A

Filter type:

Results Limited by:

NO GLOBAL FILTER: Using user defined selection & filtering criteria

Interpolation Method: Depth Range:

MD Interval 100.00usft

Unlimited

Maximum center-center distance of 1,750.59 usft

Scan Method: Error Surface:

ISCWSA Closest Approach 3D

Pedal Curve

Warning Levels Evaluated at:

2.00 Sigma

Casing Method:

Not applied

vey Tool Program	4.3	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	8,700.00	Prelim Plan A (OH)	MWD+HDGM	OWSG MWD + HRGM	
8,700.00	19,211.29	Prelim Plan A (OH)	MWD+HDGM	OWSG MWD + HRGM	

•	Reference	Offset	Dista	nce		
•	Measured	Measured	Between	Between	Separation	Warning
Site Name	Depth	Depth	Centres	Ellipses	Factor	
Offset Well - Wellbore - Design	(usft)	(usft)	(usft)	(usft)		
Leatherneck Fed						
121H - OH - Prelim Plan A	1,400.00	1,398.00	910.20	901.63	106.251 CC,	ES
121H - OH - Prelim Plan A	7,800.00	7,872.45	1,327.69	1,282.26	29.220 SF	
122H - OH - Prelim Plan A	1,400.00	1,399.00	60.00	51.43	7.004 CC,	ES
122H - OH - Prelim Plan A	7,561.22	7,612.32	221.36	175.91	4.870 SF	
131H - OH - Prelim Plan A	1,400.00	1,398.00	880.21	871.64	102.749 CC,	ES
131H - OH - Prelim Plan A	19,211.29	18,990.35	1,333.89	872.07	2.888 SF	
132H - OH - Prelim Plan A	1,500.00	1,500.00	30.00	21.31	3.454 CC	
132H - OH - Prelim Plan A	19,211.29	19,040.14	180.00	18.78	1.117 Leve	el 2, ES, SF
201H - OH - Prelim Plan A	1,719.71	1,733.96	848.29	839.15	92.723 CC,	ES
201H - OH - Prelim Plan A	19,211.29	19,179.60	1,320.00	854.14	2.833 SF	
221H - OH - Prelim Plan A	1,956.49	2,000.82	811.64	801.71	81.754 CC	*
221H - OH - Prelim Plan A	2,000.00	2,044.30	811.79	801.70	80.434 ES	
221H - OH - Prelim Plan A	19,211.29	19,444.41	1,342.18	883.55	2.926 SF	
222H - OH - Prelim Plan A	1,600.00	1,600.00	30.00	20.06	3.020 CC,	ES
222H - OH - Prelim Plan A	19,211.29	19,461.67	241.00	79.09	1.488 Leve	el 3, SF

Offset De Survey Progi	-			OGM, 7100-MW		Plan A						**	Offset Well Error:	0.00 usft
Refer	ence	Offse	et	Semi Major	Axis				Dista	ince				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbor +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	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		ş			• • • •
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		

Anticollision Report

Company:

Matador Resources

Project:

Eddy County, NM

Reference Site: Site Error:

Leatherneck Fed 0.00 usft

Reference Well:

202H

Well Error:

0.00 usft

Reference Wellbore

ОН

Reference Design:

Prelim Plan A

Local Co-ordinate Reference:

TVD Reference:

, Well 202H

Rig @ 3269.00usft (GL:3,240' + KB:29')

MD Reference:

Rig @ 3269.00usft (GL:3,240' + KB:29') Grid

North Reference:

Survey Calculation Method:

Minimum Curvature 2.00 sigma

Output errors are at

' WellPlanner1

Database:

Offset TVD Reference: Offset Datum

		AID LUDONA 40	300 1010	2400 111										
urvey Progr				DGM, 7100-MW					Di-4-				Offset Well Error:	0.00 us
Refer	ence Vertical	Offse	4.0	Semi Major		Winksids	Offers Mississer		Dista					,
Measured Depth	Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore +N/-S	+E/-W	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
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 C	CC, ES	
1,500.00	1,500.00	1,490.15	1,490.14	4.34	4.34	1.16	910.40	18.42	910.62	901.94	8.68	104.914		
1,600.00	1,600.00	1,582.08	1,582.05	4.43	4.41	1.04	911.64	16.61	911.93	903.08	8.84	103.112		
1,700.00	1,699.99	1,673.92	1,673.81	4.54	4.51	155.28	913.70	13.60	914.91	905.86	9.05	101.072		
1,800.00	1,799.96	1,765.56	1,765.32	4.67	4.64	155.05	916.59	9.38	920.38	911.08	9.30	98.946	,	
1,900.00	1,899.86	1,856.94	1,856.45	4.82	4.78	154.79	920.29	- 3.98	928.33	918.73	9.60	96.748		
2,000.00	1,999.68	1,952.38	1,951.55	. 5.00	4.95	154.48	924.91	-2.75	938.63	928.70	9.94	94.446		
2,100.00	2,099.37	2,051.59	2,050.38	5.19	5.15	154.20	929.79	-9.88	950.62	940.29	10.33	92.034		
2,200.00	2,198.90	2,150.62	2,149.03	5.41	5.36	153.96	934.67	-17.00	964.18	953.42	10.76	89.642		
2,300.00	2,298.36	2,249.55	2,247.59	5.65	5.60	153.81	939.55	-24.12	978.52	967.31	11.21	87.265		
2,400.00	2,397.81	2,348.49	2,346.14	. ,5.90	5.84	153.66	944.42	-31.23	992.87	981.17	11.70	84.870	4,	
2,500.00	2,497.26	2,447.42	2,444.70	6.17	6.10	153.52	949.29	-38.34	1,007.22	995.01	12.21	82.497	•	
2,600.00	2,596.71	2,546.35	2,543.26	6.45	6.37	153.38	954.17	-45.45	1,021.58	1,008.84	12.74	80.176	•	
2,700:00	2,696.16	2,645.29	2,641.82	6.74	. 6.65	153.25	959.04	-52.57	1,035.95	1,000.64	13.29	77.927	• •	
2,800.00	2,795.62	2,744.22	2,740.37	7.04	6.94	153.11	963.92	-59.68	1,050.32	1,036.46	13.86	75.764		
2,900.00	2,895.07	2,843.15	2,838.93	7.35	7.24	152.99	968.79	-66.79	1,064.70	1,050.25	14.45	73.694		
3,000.00	2,994.52	2,942.09	2,937.49	7.66	7.54	152.86	973.67	-73.91	1,079.08	1,064.03	15.05	71.721		
3,100.00	3,093,97	3,041.02	3,036.04	7.99	7.85	152.74	978.54	-81.02	1,093.47	1,077.81	15.66	69.847		
3,200.00	3,193.43	3,139.95	3,134.60	8.31	8.17	152.62	983.41	-88.13	1,107.86	1,091.58	- 16.28	68.070		
3,300.00	3,292.88	3,238.89	3,233.16	8.65	. 8.49	152.51	988.29	-95.24	1,122.25	1,105.35	16.91	66.386		
3,400.00	3,392.33	3,337.82	3,331.72	8.98	8.81	152.40	993.16	-102.36	1,136.65	1,119.11	17.54	64.792		
3,500.00	3,491.78	3,436.76	3,430.27	9.33	9.14	152.29	998.04	-109.47	1,151.06	1,132.87	18.19	63.285	· .	
3,600.00	3,591.23	3,535.69	3,528.83	9.67	9.47	152.18	1,002.91	-116.58	1,165.47	1,146.63	18.84	61.859		
3,700.00	3,690.69	3,634.62	3,627.39	10.02	9.81	152.08	1,007.79	-123.69	1,179.88	1,160.38	19.50	60.509		
3,800.00	3,790.14	3,733.56	3,725.95	10.37	10.14	151.98	1,012.66	-130.81	1,194.29	1,174.13	20.16	59.232		
3,900.00	3,889.59	3,832.49	3,824.50	10.72	10.48	151.88	1,017.53	-137.92	.1,208.71	1,187.88	20.83	58.023		
4,000.00	3,989.04	3,931.42	3,923.06	11.08	10.82	151.78	1,022.41	-145.03	1,223.14	1,201.63	. 21.50	56.877		
4,100.00	4,088.50	4,030.36	4,021.62	11.44	11.17	151.69	~ 1,027.28	-152.15	1,237.56	1,215.38	22.18	55.791		
4,200.00	4,187.95	4,129.29	4,120.17	11.80	11.51	151.60	1,032.16	-159.26	1,251.99	1,229.13	22.86	54.760		
4,300.00	4,287.40	4,229.49	4,219.99	12.16	11.86	151.51	1,037.09	-166.46	1,266.42	1,242.87	23.55	53.770		
4,400.00	4,386.85	4,353.58	4,343.78	12.52	12.29	151.48	1,041.95	-173.55	1,279.79	1,255.45	24:34	52.578		
4,500.00	4,486.30	4,478.24	4,468.34	12.89	12.71	151.59	1,044.55	-177.34	1,291.20	1,266.08	25.12	51.405		
4,600.00	4,585.76	4,606.35	4,583.76	13.25	13.13	151.82	1,045.00	-178.00	1,300.80	1,274.91	25.89	50.247	•	
4,700.00	4,685.21	4,706.89	4,683.21	13.62	13.45	152.03	1,045.00	-178.00	1,310.03	1,283.47	26.56	49.319		
4,800.00	4,784.66	4,807.44	4,782.66	13.99	. 13.78	152.24	1,045.00	-178.00	1,319.29	1,292.05	27.24	48.433		
4,900.00	· 4,884.11	4,907.99	4,882.11	14.36	14.11	. 152.45	1,045.00	-178.00	1,328.56	1,300.64	27.92	47.586		
5,000.00	4,983.57	5,008.54	4,981.57	14.73	14.44	152.66	1,045.00	-178.00	1,337.84	1,309.24	28.60	46.776		
5,100.00	5,083.02	5,109.08	5,081.02	15.10	14.77	152.86	1,045.00	-178.00	1,347.15	1,317.86	29.28	46.002		
5,200.00	5,182.47	5,209.63	5,180.47	15.48	15.10	153.07	1,045.00	-178.00	1,356.47	1,326.50	29.97	45.260	•	
5,300.00	5,281.92	5,289.82	5,279.92 -	15.85	15.37	. 153.26	1,045.00	-178.00	1,365.81	1,335.22	30.59	44.648		
5,400.00	5,381.37	5,389.27	5,379.37	16.22	15.70	153.46	1,045.00	-178.00	1,375.16	1,343.89	31.28	43.969	••	
5,500.00	, 5,480.83	5,488.72	5,478.83	16.60	16.03	153.65	1,045.00	-178.00	1,384.53	1,352,57	31.96	43.316		
5,600.00	5,580.28	5,588.18	5,578.28	16.97	16.36	153.84	1,045.00	-178.00	1,393.92	1,361.26	32.65	42.690		
5,700.00	5,679.73	5,687.63	5,677.73	17.35	16.70	154.03	1,045.00	-178.00	1,403.32	1,369.97	33.34	42.089		
5,800.00	5,779.18.	5,787.08	5,777.18	17.73	17.03	154.22	1,045.00	-178.00	1,412.73	1,378.70	34.03	41.510		
5,900.00	5,878.64	5,886.53	5,876.64	18.10	17.37	154.40	1,045.00	-178.00	1,422.16	1,387.43	34.73	40.954	,	
6,000.00	5,978.15	5,986.05	5,976.15	18.48	17.70	154.61	1,045.00	-178.00	1,431.05	1,395.63	35.42	40.404		
6,100.00	6,077.87	6,085.77	6,075.87	18.84	18.04	154.78	1,045.00	-178.00	1,437.71	1,401.60 ⁻	36.11	39.816		*-
6,200.00	6,177.76	6,185.66	6,175.76	19.19	,0.04	154.78	1,040.00	, , 0.00	1,101.71	1,701.00	30.11	22.010		

Anticollision Report

Company:

Project:

Eddy County, NM

Reference Site:

Leatherneck Fed 0.00 usft

Site Error: Reference Well:

202H

Well Error:

0.00 usft

Reference Wellbore

Reference Design:

ОĤ

Prelim Plan A

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference: Survey Calculation Method:

Output errors are at

Database:

Well 202H

Rig @ 3269.00usft (GL:3,240' + KB:29')

Rig @ 3269.00usft (GL:3,240' + KB:29')

Grid

Minimum Curvature 2.00 sigma

WellPlanner1

Offset Datum

Offset TVD Reference:

ffset De	esign	Leather	neck Fed	- 121H - OI	H - Prelin	ı Plan A							Offset Site Error:	0.00 u
urvey Prog	gram: 0-M	WD+HDGM, 12	200-MWD+HI	OGM, 7100-MW	D+HDGM		•						Offset Well Error:	0.00 u
Refe	rence	Offse	et ·	Semi Major	Axis				Dista	nce				
leasured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore +N/-S (usft)	e Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
6,300.00	6,277.73	6,285.63	6,275.73	19.53	18.72	154.93	1,045.00	-178.00	1,443.94	1,406.46	37.48	38.524		
6,400.00	6,377.73	6,385.63	6,375.73	19.84	19.06	0.52	1,045.00	-178.00	1,444.06	1,405.92	38.14	37.861		
6,500.00	6,477.73	6,485.63	6,475.73	20.14	19.41	0.52	1,045.00	-178.00	1,444.06	1,405.26	38.80	37.220		
6,600.00	6,577.73	6,585.63	6,575.73	20.44	19.75	0.52	1,045.00	-178.00	1,444.06	1,404.60	39.46	36.599		
6,700.00	6,677.73	6,685.63	6,675.73	20.75	20.09	0.52	1,045.00	-178.00	1;444.06	1,403.94	40.12	35.996		
6,800.00	6,777.73	6,785.63	6,775.73	21.06	20.43	0.52	1,045.00	-178.00	1,444.06	1,403.28	40.78	35.411		
6,900.00	6,877.73	6,885.63	6,875.73	21.36	20.78	0.52	1,045.00	-178.00	1,444.06	1,402.61	41.44	34.843		
7,000.00	6,977.73	6,985.63	6,975.73	21.67	21.12	. 0.52	1,045.00	-178.00	1,444.06	1,401.95	42.11	34.292		
7,100.00	7,077.73	7,085.63	7,075.73	21.99	21.32	0.52	1,045.00	-178.00	1,444.06	1,401.43	42.63	33.873		
7,200.00	7,177.73	7,711.04	7,624.96	22.30	21.46	9.31	924.84	26.05	1,414.73	1,372.97	41.75	33.882		
7,300.00	7,277.73	7,750.00	7,647.92	22.61	21.55	10.62	912.60	55.04	1;385.41	1,342.85	42.56	32.554	•	
7,400.00	7,377.73	7,779.87	7,664.32	22.93	21.63	11.68	903.87	78.42	1,361.37	1,318.04	43.34	31.413		
7,500.00	7,477.73	7,800.00	7,674.76	23.25	21.69	12.42	898.31	94.71	1,343.23	1,299.20	44.02	30.513		
7,600.00	7,577.73	7,832.09	7,690.33	23.56	21.82	13.63	890.01	121.51	1,331.30	1,286.66	44.64	29.821		
7,700.00	7,677.73	7,850.00	7,698.43	23.88	21.89	14.32	885.70	136.89	1,326.07	1,280.98	45.09	29.407		
7,722.70	7,700.43	7,850.00	7,698.43	23.95	21.89	14.32	885.70	136.89	1,325.88	1,280.72	45.16	29.361		
7,800.00	7,777.73	7,872.45	7,707.99	24.20	22.00	15.20	880.60	156.55	1,327.69	1,282.26	45.44	29.220 SF		
7,900.00	7,877.73	7,900.00	7,718.78	24.52	22.14	16.29	874.86	181.24	1,336.38	1,290.71	45.67	29.264		
00.000,8	7,977.73	7,900.00	7,718.78	24.85	22.14	16.29	874.86	181.24	1,351.78	1,306.20	. 45.58	29.658		
8,100.00	8,077.73	7,917.75	7,725.16	25.17	22.24	17.00	871.45	197.44	1,373.98	1,328.50	45.48	30.208		
8,200.00	8,177.73	7,929.88	7,729.28	25.49	22.31	17.49	869.26	208.65	1,402.68	1,357.46	45.23	31.013		
8,300.00	8,277.73	7,950.00	7,735.63	25.82	22.43	18.30	865.87	227.43	1,437.60	1,392.66	. 44.94	31.987		
8,400.00		7,950.00	7,735.63	26.14	22.43	18.30	865.87	227.43	1,478.08	1,433.66	44.42	33.272		
8,500.00	8,477.73	7,950.00	7,735.63	26.47	22.43	18.30	865.87	227.43	1,524.06	1,480.20	- 43.86	34.750		
8,600.00	8,577.73	7,968.28	7,740.89	26.80	22.56	19.05	863.07	244.71	1,574.68	1,531.25	43.43	36.258		
8,700.00	8,677.73	7,975.93	7,742.95	26.96	22.62	19.36	861.97	252.00	1,629.84	1,587.16	42.68	38.185		
8,800.00	8,777.29	8,000.00	7,748.86	26.97	22.79	-73.87	858.82	. 275.11	1,688.02	1,645.96	42.06	40.133		
8,900.00	8,873.95	8,000.00	7,748.86	26.98	22.79	-67.24	858.82	275.11	1,745.57	1,704.29	41.29	42.279		

Anticollision Report

Company:

Matador Resources

Project: Eddy County, NM

Reference Site: Site Error:

Leatherneck Fed 0.00 usft

Reference Well:

202H

Well Error:

0.00 usft

Reference Wellbore Reference Design:

ОН

Prelim Plan A

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

Well 202H

Rig @ 3269.00usft (GL:3,240' + KB:29') Rig @ 3269.00usft (GL:3,240' + KB:29')

North Reference:

Survey Calculation Method:

Output errors are at

Database:

Minimum Curvature 2.00 sigma

WellPlanner1

Grid

Offset TVD Reference:

vey Prog		WD+HDGM, 1:										`	Offset Well Error:	0.00 us
Refere		Offs		Semi Major					Dista					
asured lepth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore	+E/-W	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	· Warning	•
usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
0.00	0.00	1.00	-1.00	0.00	0.00	180.00	-60.00	0.00	60.00					
100.00	100.00	101.00	99.00	0.13	0.13	180.00	-60.00	. 0.00	60.00	59.74	0.26	232.468		
200.00	200.00	201.00	199.00	0.49	0.49	180.00	-60.00	0.00	60.00	59.02	0.98	61.536		
300.00	300.00	301.00	299.00	0.84	0.85	180.00	-60.00	0.00	60.00	58.31	1.69	35.461		
400.00	. 400.00	401.00	399.00	.1.20	1.21	180.00	-60.00	0.00	60.00	57.59	2.41	24.907		
500.00	500.00	501.00	499.00	1.56	1.56	180.00	-60.00	0.00	60.00	56.87	3.13	19.195		
600.00	600.00	601.00	599.00	1.92	1.92	. 180.00	-60.00	0.00	60.00	56.16	3.84	15.614		
700.00	700.00	701.00	699.00	2.28	2.28	180.00	-60.00	0.00	60.00	55.44	4.56	13.159		
800.00	800.00	801.00	799.00	2.64	2.64	180.00	-60.00	0.00	60.00	54.72	5.28	11.371		
900.00	900.00	901.00	899.00	3.00	3.00	180.00 .	-60.00	0.00	60.00	54.01	5.99	- 10.011		
1,000.00	1,000.00	1,001.00	999.00	· 3.35	3.36	180.00	-60.00	0.00	60.00	53.29	6.71	8.941		
1,100.00	1,100.00	1,101.00	1,099.00	3.71	3.72	180.00	60.00	0.00	60.00	52.57	7.43	8.078		
1,200.00	1,200.00	1,201.00	1,199.00	4.07	4.07	180.00	-60.00	0.00	60.00	51.86	7.43 8.14	7.369		
1,300.00	1,300.00	1,301.00	1,299.00	4.07	4.07	180.00	-60.00	0.00	60.00	51.86	8.14 8.51	7.359		
1,400.00	1,400.00	1,399.00	1,399.00	4.28	4.28	180.00	-60.00	0.00	60.00	51.43	8.57	7.004 CC, E	s	
1,500.00	1,500.00	1,498.01	1,498.01	4.34	4.34	-179.76	-60.80	-0.25	60.81	52.13	8.68	7.004 00, 2	-	
1,600.00	1,600.00	1,596.96	1,596.92	4.43	4.42	-179.07	-63.22	-1.03	63.27	54.42		7.151	•	
1,700.00	1,699.99	1,695.82	1,695.69	4.54	4.53	-23.89	-67.27	-2.32	66.60	57.54	9.06	7.351		
1,800.00	1,799.96	1,794.63	1,794.32	4.67	4.66	-23.39	-72.94	-4.13	70.00	60.68	9.31	7.516		
1,900.00 2,000.00	1,899.86 1,999.68	1,893.38 1,992.06	1,892.77 1,991.01	4.82 . 5.00	4.82 5.01	-23.12	-80.23	-6.45	73.46	63.85	9.61	7.642		
2,000.00	1,999.00	1,992.00	1,991.01	. 5.00	5.01	-23.04	-89.12	-9.28	76.98	67.03	9.95	7.735		
2,100.00	2,099.37	2,090.69	2,089.02	5.19	5.21	-23.12	-99.62	-12.63	80.56	70.23	10.33	7.798		
2,200.00	2,198.90	2,189.26	2,186.77	5.41	5.44	-23.36	-111.71	-16.49	84.19	73.45	10.74	7.837		
2,300.00	2,298.36	2,289.03	2,285.57	5.65	5.70	-23.64	-124.93	-20.70	88.02	76.82	11.20	7.857		
2,400.00	2,397.81	2,388.96	2,384.52	5.90	5.97	-23.89	-138.18	-24.93	91.87	80.17	11.70	7.855		
2,500.00	2,497.26	2,488.88	2,483.47	6.17	6.26	-24.12	-151.43	-29.15	95.71	83.50	12.21	7.837		
2,600.00	2,596.71	2,588.81	2,582.43	6.45	6.56	-24.34	-164.68	-33.38	99.56	00.04	40.75	7.000		
2,700.00	2,696.16	2,588.73	2,681.38	6.74	6.87	-24.54 -24.53	-177.93	-33.38 _. -37.60	103.41	86.81 90.09	12.75 13.32	7.806 7.766		
2,800.00	2,795.62	2,788.66	2,780.33	7.04	7.19	-24.72	-191.18	-41.83	107.26	93.37	13.89	7.720		
2,900.00	2,895.07	2,888.58	2,879.29	7.35	7.52	-24.89	-204.43	-46.05	111.11	96.62	14.49	7.670		
3,000.00	2,994.52	2,988.51	2,978.24	7.66	7.85	-25.05	-217.68	-50.28	114.96	99.87	15.09	7.617		
	-,	-,							***************************************	55.67	10.00	7.517		
3,100.00	3,093.97	3,088.43	3,077.19	7.99	8.20	-25.20	-230.93	-54.50	118.82	103.10	15.71	· 7.562		
3,200.00	3,193.43	3,188.36	3,176.14	8.31	8.55	-25.34	-244.18	-58.73	122.67	106.33	16.34	7.506		
3,300.00	3,292.88	3,288.29	3,275.10	8.65	8.90	-25.47	-257.43	-62.95	126.52	109.54	16.98	7.451		
3,400.00	3,392.33	3,388.21	3,374.05	8.98	9.26	-25.59	-270.68	-67.18	130.38	112.75	17.63	7.396		
3,500.00	3,491.78	3,488.14	3,473.00	9.33	9.62	-25.71	-283.93	-71.40	134.23	115.95	18.28	7.342		
3,600.00	3,591.23	3,588.06	3,571.96	9.67	9.99	-25.82	-297.18	-75.63	138.09	119.14	18.95	7.289		
3,700.00	3,690.69	3,687.99	3,670.91	10.02	10.36	-25.92	-310.42	-79.85	141.94	122.33	19.61	7.237		
3,800.00	3,790.14	3,787.91	3,769.86	. 10.37	10.73	-26.02	-323.67	-84.08	145.80	125.51	20.29	7.187		
3,900.00	3,889.59	. 3,887.84	3,868.81	10.72	11.11	-26.12	-336.92	-88.30	149.66	128.69	20.97	7.138		•
4,000.00	3,989.04	3,987.76	3,967.77	11.08	11.49	-26.20	-350.17	-92.53	153.52	131.87	21.65	7.091	•	
100.00	4.000.00	4 007 00	4.000.70		44.07	20.00	000 45	00.75		4000:		7010		
‡,100.00 ‡,200.00	4,088.50	4,087.69	4,066.72 4,165.67	11.44	11.87	-26.29 26.37	-363.42	-96.75	157.37	135.04	22.34	7.046	•	
1,300.00	4,187.95 4,287.40	4,187.61 4,287.54	4,165.67	11.80	12.25	-26.37 -26.45	-376.67 -380.02	-100.98 -105.20	161.23	138.21	23.03	7.002		
1,400.00	4,287.40	4,287.54	4,264.63	12.16 12.52	12.63 13.02	-26.45 -26.52	-389.92 -403.17	-105.20	165.09	141.37	23.72	6.960	•	
1,500.00	4,486.30	4,387.46	4,462.53	12.52	13.40	-26.52 -26.59	-403.17 -416.42	-109.43 -113.65	168.95 172.81	144.53 147.69	24.42 25.12	6.919 6.880		
.,500.00	+,+50.50	7,707.00	7,702.00		13.40	-20.03	-410.42	-113.03	172.01	147.09	23.12	0.000		
1,600.00	4,585.76	4,587.31	. 4,561.48	13.25	13.79	-26.66	-429.67	-117.88	176.67	150.85	25.82	6.842		
1,700.00	4,685.21	4,687.24	4,660.44	13.62	14.18	-26.72	-442.92	-122.10	180.53	154.00	26.53	6.805		
1,800.00	4,784.66	4,787.16	4,759.39	13.99	14.57	-26.78	-456.17	-126.32	184.39	157.15	27.24	6.770		
,900.00	4,884.11	4,887.09	4,858.34	14.36	14.96	-26.84	-469.42	-130.55	188.25	160.30	27.94	6.736		
5,000.00	4,983.57	4,987.02	4,957.30	14.73	15.35	-26.90	-482.67	-134.77	192.11	163.45	28.66	6.704		
		5,086.94	5,056.25	15.10	15.75	-26.95	495.92	-139.00	195.97	166.60	29.37	*		

Anticollision Report

Company:

Matador Resources

Project:

Eddy County, NM

Reference Site: Site Error:

Leatherneck Fed

Reference Well:

0.00 usft

Well Error:

202H 0.00 usft

Reference Wellbore

ОН

Reference Design:

Prelim Plan A

Local Co-ordinate Reference:

TVD Reference:

Well 202H

Grid

Rig @ 3269.00usft (GL:3,240' + KB:29') Rig @ 3269.00usft (GL:3,240' + KB:29')

MD Reference:

North Reference:

Survey Calculation Method:

Output errors are at

Database: Offset TVD Reference: Minimum Curvature

2.00 sigma

WeilPlanner1

Offset De	-			 122H - О DGM, 7200-МУ 		rrian A			-				Offset Site Error:	0.00 usft
Burvey Prog Refer	•		200-MWD+HI et	Semi Major					Dista				Offset Well Error:	0.00 usft
Measured Depth	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbore		Between	Between	Minimum	Separation	Warning	
(usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor		
5,200.00				.5.4			رغيما التي 1 كالدام الكان				- 1-1-			، سہ دست
5,300.00	5,182.47 5,281.92	5,186.87 5,286.79	5,155.20 5,254.15	15.48 15.85	16.14 16.53	-27.00 -27.05	-509.17 -522.42	-143.22 -147.45	199.83 203.69	169.74 172.89	30.08	6.642 · 6.613		
5,400.00	5,381.37	5,386.72	5,353.11	16.22	16.93	-27.10	-535.67	-151.67	207.55	176.03	31.52			
5,500.00	5,480.83	5,486.64	5,452.06	16.60	17.33	-27.15	-548.92	-155.90	211.41	179.17	32.24	6.558		
5,600.00		5,586.57	5,551.01	16.97	17.72	-27.19	-562.17	-160.12	215.27	182.31	32.96	6.531		
5,700.00	5,679.73	5,686.49	5,649.97	17.35	18.12	-27.24	-575.42	-164.35	219.13	185.45	33.68	6.506		
			*									•		
5,800.00	5,779.18	5,786.42	5,748.92	17.73	18.52	-27.28	-588.67	-168.57	222.99	188.59	34.40	6.481	•	
5,900.00		5,886.34	5,847.87	18.10	18.91	-27.32	-601.92	-172.80	226.85	191.73	35.13	6.458		•
6,000.00	5,978.15	5,986.24	5,946.80	18.48	19.31	-27.31	-615.16	-177.02	. 231.26	195.41	35.85	6.451		
6,100.00 6,200.00	6,077.87 6,177.76	6,088.28	6,047.87	18.84	19.72 20.13	-27.05	-628.51	-181.28	237.71	201.13	36.58	6.499		
0,200.00	0,177.76	6,194.37	6,153.25	19.19	20.13	-26.69	-640.17	-185.00	244.40	207.09	37.31	6.551		
6,300.00	6,277.73	6,300.68	6,259.15	19.53	20.52	-26.28	-649.06	-187.83	250.81	212.81	38.01	6.599		
6,400.00	6,377.73	6,407.24	6,365.51	19.84	20.90	179.73	-655.14	-189.77	256.39	217.74	38.65	6.633		
6,500.00	6,477.73	6,514.06	6,472.27	20.14	21.26	179.96	-658.41	-190.81	259.44	220.16	39.28	6.605		
6,600.00	6,577.73	6,618.53	6,576.73	20.44	21.57	-180.00	-659.00	-191.00	260.00	220,12	39.88	6.520		
6,700.00	6,677.73	6,718.53	6,676.73	20.75	21.85	-180.00	-659.00	-191.00	260.00	219.50	40.50	6.419		
6,800.00		6,818.53	6,776.73	21.06	22.14	-180.00	-659.00	-191.00	260.00	218.87	41.13	6.322		
6,900.00		6,918.53	6,876.73	21.36	22.43	-180.00	-659.00	-191.00	260.00	218.24	41.76	6.226		
7,000.00		7,018.53	6,976.73	21.67	22.72	-180.00	-659.00	-191.00	260.00	217.61	42.39	6.134		
7,100.00		7,118.53	7,076.73	21.99	22.98	-180.00	-659.00	-191.00	260.00	217.00	43.00	6.047		•
7,200.00	7,177.73	7,221.57	7,179.77	22.30	23.12	179.97	-658.93	-190.88	259.94	216.52	43.43	5.986		
7,300.00	7,277.73	7,349.90	7,306.68	22.61	23.08	176.64	-649.93	-176.28	253.14	209.83	43.30	5.846		
7,400.00	7,377.73	7,465.40	7,415.11	22.93	23.00	168.20	-629.35	-142.87	238.43	194.87	43.56	5.473		
7,500.00	7,477.73	7,562.33	7,498.51	23.25	22,91	156.25	-603.56	-101.01	224.54	179.86	44.68	5.025		
7,561.22	7,538.95	7,612.32	7,537.95	23.44	22.86	148.36	-587.47	-74.89	221.36	175.91	45.45	4.870 SF		
7,600.00	7,577.73	7,640.60	7,559.04	23.56	22.84	143.50	-577.59	-58.85	222.87	177,14	45.73	4.874		
7,700.00	7,677.73	7,696.80	7,598.23	23.88	22.80	133.46	-557.04	-24.24	242.79	197.92	44.87	5.411		
7,800.00	7,777.73	7,741.75	7,627.25	24.20	22.78	125.84	-541.58	6.40	285.72	243.39	42.33	6.750	•	
7,900.00	7,877.73	7,780.58	7,650.55	24.52	22.77	119.96	-529.18	34.86	345.14	305.51	39.63	8.709		
8,000.00	7,977.73	7,814.16	7,669.29	24.85	22.77	115.51	-519.20	60.88	415.23	377.82	37.41	11.100		
8,100.00	8,077.73	7,850.00	7,687.77	25.17	22.77	111.45	-509.37	. 89.97	492.36	456.41	35.95	13.695		
8,200.00	8,177.73	7,868.69	7,696.76	25.49	22.77	109.59	-504.59	105.64	574.04	539.55	34.49	16.641		
8,300.00		7,900.00	7,710.79	25.82	22.78	106.87	-497.13	132.61	659.28	625.45	33.83	19.490		
8,400.00		7,900.00	7,710.79	26.14	22.78	106.87	-497.13	132.61	746.88	714.18	32.70	22.839		
8,500.00	8,477.73	7,927.91	7,722.19	26.47	22.79	104.80	-491.07	157.36	836.16	803.70	32,47	25.754		
8,600.00		7,950.00	7,730.44	26.80	22.79	103.39	-486.68	177.37	927.14	894.88	32.26	28.743		
8,700.00	8,677.73	7,950.00	7,730.44	26.96	22.79	103.39	-486.68	177.37	1,019.24	987.48	31.76	32.089		
8,800.00	8,777.29	7,972.08	7,738.01	26.97	22.80	0.98	-482.66	197.72	1,108.98	1,077.39	31.59	35.108		
8,900.00	8,873.95	- 8,000.00	7,746.58	26.98	22.80	. 0.01	-478.11	223.89	1,191.73	1,160.38	31.35	38.009	•	
9,000.00	8,964.77	8,000.00 8,050.00	7,746.58	26.99	22.80	0.01	-478.11 471.40	223.89	1,265.88	1,235.12	30.76	41.153		
9,100.00	9,047.00	00.000,0	7,759.08	27.02	23.05	-0.81	-471.49	271.83	1,330.37	1,299.70	30.68	43.366		
9,200.00	9,118.16	8,050.00	7,759.08	27.08	23.05	-0.42	-471.49	271.83	1,384.13	1,353.93	30.20	45.829		
9,300.00		8,100.00	7,767.84	27.18	23.43	-0.33	-466.86	320.82	1,426.96	1,396.78	30.19	47.271		
9,400.00		8,117.74	7,770.03	27.41	23.58	-0.10	-465.70	338.39	1,458.08	1,427.99	30.09	48.453		
9,500.00		8,150.00	7,772.80	27.89	23.86	-0.04	-464.25	370.49	1,477.30	1,447.09	30.21	48.905		
9,600.00	9,258.83	8,189.54	7,774.00	28.59	24.23	-0.01	-463.65	410.00	1,484.32	1,453.85	30.47	48.717		
9,700.00	9,259.00	8,251.25	7,774.00	29.46	24.89	0.00	-463.70	471.72	1,484.00	1,453.14	30.86	48.087		•
9,800.00	9,259.00	8,351.25	7,774.00	30.49	26.05	0.00	-463.79	571.72	1,484.00	1,453.14	31.35	47.335		
9,900.00		8,451.25	7,774.00	31,65	27.36	0.00	-463.87	671.72	1,484.00	1,452.09	31.35	46.504		
10,000.00	9,259.00	8,551.25	7,774.00	32.94	28.80	0.00	-463.96	771.72	1,484.00	1,452.09	32.54	45.608		
10,100.00		8,651.25	7,774.00	34.33	30.34	0.00	-464.05	871.72	1,484.00	1,451.46	33.23	44.662		
5,.50.00	. 5,200.00	,		000	20.07	0.00	70 7.00	Ç, £	., , , , , , , , ,	.,	55.25			
10.200.00	9,259.00	8,751.25	7,774.00	35.82	31.98	0.00	-464.14	971.72	1,484.00	1,450.02	33.98	43.679		

Anticollision Report

Company: Project:

Matador Resources

Eddy County, NM

Leatherneck Fed - 122H - OH - Prelim Plan A

Reference Site:

Leatherneck Fed

Site Error: Reference Well:

Offset Design

0.00 usft

Well Error:

202H 0.00 usft

Reference Wellbore

ОН

Reference Design:

Prelim Plan A

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method:

Output errors are at Database:

Well 202H

Rig @ 3269.00usft (GL:3,240' + KB:29')

Rig @ 3269.00usft (GL:3,240' + KB:29')

Offset Site Error:

Grid

Minimum Curvature

2.00 sigma

WellPlanner1 Offset Datum

Offset TVD Reference:

	Survey Progr	-			- 12211 - ОГ ОБМ, 7200-МW						-			Offset Well Error:	0.00 usft
	Refere		Offse		Semi Major					Dista	nce		·	Chief Freil Eller	o. oo uoli
	Measured	Vertical	Measured	Vertica!	Reference	Offset	Highside	Offset Wellbore		Between	Between	Minimum	Separation	Warning	
	Depth (ueft)	Depth /ueft)	Depth	Depth (ueft)	/ne#\	(ne#)	Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation (ueft)	Factor		
-	(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		er e i serio rediseño ses , e	
	10,300.00	9,259.00	8,851.25	7,774.00	37.39	33.69	0.00	-464.22	1,071.72	. 1,484.00	1,449.22	34.78	42.671		
	10,400.00	9,259.00	8,951.25	7,774.00	39.03	35.48	0.00	-464.31	1,171.72	1,484.00	1,448.37	35.63	41.649		
	10,500.00	9,259.00	9,051.25	7,774.00	40.74	37.32	0.00	-464.40 454.40	1,271.72	1,484.00	1,447.47	36.53	40.622		
	10,600.00	9,259.00	9,151.25	7,774.00	42.50	39.21	0.00	-464.49	1,371.72	1,484.00	1,446.52	37.48	39.598		
	10,700.00 10,800.00	9,259.00 9,259.00	9,251.25	7,774.00	44.32 46.18	41.14 43.11	0.00 0.00	-464.57 -464.66	1,471.72 1,571.72	1,484.00	1,445.54	38.46	38.583		
ĺ	10,000.00	5,205.00	9,351.25	7,774.00	46.18	43.11	0.00	-464.66	1,5/1./2	1,484.00	1,444.52	39.48	37.584		
	10,900.00	9,259.00	9,451.25	7,774.00	48.07	45.11	0.00	-464.75	1,671.72	1,484.00	1,443.46	40.54	36,604		
	11,000.00	9,259.00	9,551.25	7,774.00	50.01	47.14	0.00	-464.83	1,771.72	1,484.00	1,442.37	41.63	35.646		
	11,100.00	9,259.00	9,651.25	7,774.00	51.97	49.19	0.00	-464.92	1,871.72	1,484.00	1,441.25	42.75	34.712		
	11,200.00	9,259.00	9,751.25	7,774.00	53.96	51.26	0.00	-465.01	1,971.72	1,484.00	1,440.10	43.90	33.806		
	11,300.00	9,259.00	9,851.25	7,774.00	55.97	53.36	0.00	-465.10	2,071.72	1,484.00	1,438.93	45.07	32.927		
	11 400 00	0 250 00	0.051.35	7 774 00	EQ 04	EE 47	0.00	465 40	2 474 70	1 404 00	1 407 74	40.00	22.076		
-	11,400.00	9,259.00 9,259.00	9,951.25 10,051.25	7,774.00 7,774.00	58.01	55.47 57.60	0.00	-465.18 -465.27	2,171,72	1,484.00	1,437.74	46.26 47.48	32.076		
-	11,500.00 11,600.00	9,259.00	10,051.25	7,774.00	60.06 62.14	57.60 59.74	0.00	-465.27 -465.36	2,271.72 2,371.72	1,484.00 1,484.00	1,436.52 1,435.28	47.48 48.72	31.254 30.461		
	11,700.00	9,259.00	10,151.25	7,774.00	64.23	61.89	0.00	-465.45	2,371.72	1,484.00	1,435.28	49.97	29.696		
	11,800.00	9,259.00	10,351.25	7,774.00	66.33	64.05	0.00	-465.53	2,571.72	1,484.00	1,434.03	51.25	28.958		
	,550.00	5,200.00	. 5,501.20	.,	00.00	54,00	0.00	+00.55	2,011,12	.,707.00	.,.02.10	31.23	20.300		
-	11,900.00	9,259.00	10,451.25	7,774.00	68.45	66.22	0.00	-465.62	2,671.72	1,484.00	1,431.47	52.53	28.248		
	12,000.00	9,259.00	10,551.25	7,774.00	70.58	68.40	. 0.00	-465.71	2,771.72	1,484.00	1,430.16	53.84	27.564		
ļ	12,100.00	9,259.00	10,651.25	7,774.00	72.72	70.59	0.00	-465.79	2,871.72	1,484.00	1,428.85	55.15	26.906		
	12,200.00	9.259.00	10,751.25	7,774.00	74.87	72.79	0.00	-465.88	2,971.72	1,484.00	1,427.52	56.48	26.273		
	12,300.00	9,259.00	10,851.25	7,774.00	77.02	74.99	0.00	-465.97	3,071.72	1,484.00	1,426.17	57.83	25.663		
	12 400 00	0 250 00	10.051.25	7 774 00	79.19	77 20	0.00	.4ee ne	3 171 70	1 494 00	1 424 92	E0 10	25.077		
	12,400.00 12,500.00	9,259.00 9,259.00	10,951.25 11,051.25	7,774.00 7,774.00	79.19 81.37	77.20 79.42	0.00 0.00	-466.06 -466.14	3,171.72 3,271.72	1,484.00 1,484.00	1,424.82	59.18 60.54	25.077		
	12,500.00	9,259.00	11,051.25	7,774.00	83.55	79.42 81.64	0.00	-466.23	3,271.72	1,484.00	1,423.46 1,422.09	61.91	24.512 23.969		
	12,700.00	9,259.00	11,251.25	7,774.00	85.74	83.86	0.00	-466.32	3,471.72	1,484.00	1,422.09	63.30	23.445		
	12,800.00	9,259.00	11,351.25	7,774.00	87.93	86.09	0.00	-466.41	3,571.72	1,484.00	1,419.31	64.69	22,941		
	,,_,	5,255.50	,	.,	07.00	50.00	0.00	400.41	0,011.12	., ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	.,	555	,071		
	12,900.00	9,259.00	11,451.25	7,774.00	90.13	88.32	0.00	-466.49	3,671.72	1,484.00	1,417.91	66.09	22.456		
	13,000.00	9,259.00	11,551.25	7,774.00	92.34	90.56	0.00	-466.58	3,771.71	1,484.00	1,416.51	67.49	21.988		
	13,100.00	9,259.00	11,651.25	7,774.00	94.55	92.80	0.00	-466.67	3,871.71	1,484.00	1,415.10	68.90	21.537		
	13,200.00	9,259.00	11,751.25	7,774.00	96.76	95.04	0.00	-466.75	3,971.71	1,484.00	1,413.68	70.32	21.102		
	13,300.00	9,259.00	11,851.25	7,774.00	98.98	97.29	0.00	-466.84	4,071.71	1,484.00	1,412.25	71.75	20.683		
	13,400.00	9,259.00	11,951.25	7,774.00	101.20	99.54	0.00	-466.93	4,171.71	1,484.00	1,410.82	73.18	20.279		
	13,400.00	9,259.00	12,051.25	7,774.00	101.20	101.79	0.00	-467.02	4,171.71	1,484.00	1,410.82	73.18	19.888		
	13,600.00	9,259.00	12,051.25	7,774.00	105.43	104.04	0.00	-467.10	4,371.71	1,484.00	1,407.94	76.06	19.500		
	13,700.00	9,259.00	12,251.25	7,774.00	107.89	106.30	0.00	-467.19	4,471.71	1,484.00	1,406.49	77.51	19.147		
	13,800.00	9,259.00	12,351.25	7,774.00	110.13	108.56	0.00	-467.28	4,571.71	1,484.00	1,405.04	78.96	18.794		
1	13,900.00	9,259.00	12,451.25	7,774.00	112.37	110.82	0.00	-467.37	4,671.71	1,484.00	1,403.58	80.42	18.454		
	14,000.00	9,259.00	12,551.25	7,774.00	114.61	113.08	0.00	-467.45	4,771.71	. 1,484.00	1,402,12	81.88	18.125		
	14,100.00	9,259.00	12,651.25	7,774.00	. 116.86	115.35	0.00	-467.54	4,871.71	1,484.00	1,400.66	83.34	17.806		•
	14,200.00	9,259.00	12,751.25	7,774.00	119.10	117.61	0.00	-467.63	4,971.71	1,484.00	1,399.19	84.81	17.498		
	14,300.00	9,259.00	12,851.25	7,774.00	121.35	119.88	0.00	-467.71	5,071.71	1,484.00	1,397.72	86.28	17.200		
	14,400.00	9,259.00	12,951.25	7,774.00	123.60	122.15	0.00	-467.80	5,171.71	1,484.00	1,396.24	· 87.76	16.911		
	14,500.00	9,259.00	13,051.25	7,774.00	125.86	124.42	0.00	-467.89	5,271.71	1,484.00	1,394.77	89.23	16.630		
	14,600.00	9,259.00	13,151.25	7,774.00	128.11	126.69	0.00	-467.98	5,371.71	1,484.00	1,393.29	90.72	16.359		
	14,700.00	9,259.00	13,251.25	7,774.00	130.37	128,96	0.00	-468.06	5,471.71	1,484.00	1,391.80	92,20	16.096		
	14,800.00	9,259.00	13,351.25	7,774.00	132.63	131.24	0.00	-468.15	5,571.71	1,484.00	1,390.31	93.69	15.840		
	14,900.00	9,259.00	13,451.25	7,774.00	134.89	133.51	0.00	-468.24	5,671.71	1,484.00	1,388.82	95.18	15.592		
	15,000.00	9,259.00	13,551.25	7,774.00	137.15	135.79	0.00	-468.32	5,771.71	1,484.00	1,387.33	96.67	15.351		
	15,100.00	9,259.00	13,651.25	7,774.00	139.41	138.07	0.00	-468.41	5,871.71	1,484.00	1,385.84	98.16	15.118		*
	15,200.00	9,259.00	13,751.25	7,774.00	141.68	140.35	0.00	-468.50	5,971.71	1,484.00	1,384.34	99.66	14.891		
	15,300.00	9,259.00	13,851.25	7,774.00	143.94	142.63	0.00	-468.59	6,071.71	1,484.00	1,382.84	101.16	14.670		
	15.400.00	9,259.00	13,951.25	7,774.00	146.21	144.91	0.00	-468.67	6,171.71	1,484.00	1,381.34	102.66	14.456		
L	15,400.00	0,205.00	10,001.23	7,774.00	140.21	144.31	0.00	-400,01	U, (T I.J)	1,404.00	1,001.04	102.00	14.430		

Anticollision Report

Company: Project:

Matador Resources

Reference Site:

Eddy County, NM

Site Error:

Leatherneck Fed 0.00 usft

Reference Well:

202H

Well Error:

0.00 usft

Reference Wellbore

ОН

Reference Design: Prelim Plan A Local Co-ordinate Reference:

TVD Reference:

Well 202H

Rig @ 3269.00usft (GL:3,240' + KB:29') Rig @ 3269.00usft (GL:3,240' + KB:29')

MD Reference:

North Reference:

Grid Minimum Curvature

Survey Calculation Method: Output errors are at

2.00 sigma

Database:

WellPlanner1

Offset TVD Reference:

Offset De	•		neck Fed	OGM, 7200-MW							1.41	-	Offset Site Error:	0.00 us
Survey Progr Refer		Offse		Semi Major				3.	Dista	nce :			Offset Well Error:	0.00 us
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbor +N/-S (usft)	re Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
15,500.00	9,259.00	14,051.25	7,774.00	148.48	147.19	0.00	-468.76	6,271.71	1,484.00	1,379.84	104.16	14.247		
15,600.00	9,259.00	14,151.25	7,774.00	150.75	149.47	0.00	-468.85	6,371.71	1,484.00	1,378.33	105.67	14.044		
15,700.00	9,259.00	14,251.25	7,774.00	153.02	151.75	0.00	-468.94	6,471.71	1,484.00	1,376.83	107.18	13.847		
15,800.00	9,259.00	14,351.25	7,774.00	155.29	154.03	0.00	-469.02	6,571.71	1,484.00	1,375.32	108.68	13.654		
15,900.00	9,259.00	14,451.25	7,774.00	157.57	156.32	0.00	-469.11	6,671.71	1,484.00	1,373.81	110.19	13.467		
16,000.00	9,259.00	14,551.25	7,774.00	159.84	158.60	0.00	-469.20	6,771.71	1,484.00	1,372.29	·. 111.71	13.285		
16,100.00	9,259.00	14,651.25	7,774.00	162.12	160.89	0.00	-469.28	6,871.71	1,484.00	1,370.78	113.22	13.107		
16,200.00	9,259.00	14,751.25	7,774.00	164.39	163.18	0.00	-469.37	6,971.71	1,484.00	1,369.27	114.73	12.934		
16,300.00	9,259.00	14,851.25	7,774.00	166.67	165.46	0.00	-469.46	7,071.71	1,484.00	1,367.75	116.25	12.765		
16,400.00	9,259.00	14,951.25	7,774.00	168.95	167.75	0.00	-469.55	7,171.71	1,484.00	1,366.23	117,77	12.601		
16,500.00	9,259.00	15,051.25	7,774.00	171.22	170.04	0.00	-469.63	7,271.71	1,484.00	1,364.71	119.29	12.440		
16,600.00	9,259.00	15,151.25	7,774.00	173.50	172.32	0.00	-469.72	7,371.71	1,484.00	1,363.19	120.81	12.284		
16,700.00	9,259.00	15.251.25	7,774.00	175.78	174.61	0.00	-469.81	7,471.71	1,484.00	1,361,67	122.33	12.131		
16,800.00	9,259.00	15,351.25	7,774.00	178.06	176.90	0.00	-469.90	7,571.71	1,484.00	1,360.15	123.85	11.982		
16,900.00	9,259.00	15,451.25	7,774.00	180.34	179.19	0.00	-469.98	7,671.71	1,484.00	1,358.62	125.38	11.836		
17,000.00	9,259.00	15,551.25	7,774.00	182.63	181.48	0.00	-470.07	7,771.71	1,484.00	1,357.10	126.90	11.694		
17,100.00	9,259.00	15,651.25	7,774.00	184.91	183.77	0.00	-470.16	7,871.71	1,484.00	1,355.57	128.43	11.555		
17,200.00	9,259.00	15,751.25	7,774.00	187.19	186.06	0.00	-470.24	7,971.71	1,484.00	1,354.04	129.96	11.419		
17,300.00	9,259.00	15,851.25	7,774.00	189.48	188.35	0.00	-470.33	8,071.71	1,484.00	1,352.51	131.49	11.286		
17,400.00	9,259.00	15,951.25	7,774.00	191.76	190.65	0.00	-470.42	8,171.71	1,484.00	1,350.99	133.01	11.157	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
17,500.00	9,259.00	16,051.25	7,774.00	194.04	192.94	0.00	-470.51	8,271.71	1,484.00	1,349.46	134.54	11.030		
17,600.00	9,259.00	16,151.25	7,774.00	196.33	195.23	0.00	-470.59	8,371.71	1,484.00	1,347.92	. 136.08	10.906		
17,700.00	9,259.00	16,251.25	7,774.00	198.62	197.52	0.00	-470.68	8,471.71	1,484.00	1,346.39	137.61	10.784	•	
17,800.00	9,259.00	16,351.25	7,774.00	200.90	199.82	0.00	-470.77	8,571.71	1,484.00	1,344.86	139.14	10.665		
17,900.00	9,259.00	16,451.25	7,774.00	203.19	202.11	0.00	-470.86	8,671,71	1,484.00	1,343.33	140.67	10.549		
18,000.00	9,259.00	16,551.25	7,774.00	205.48	204.40	0.00	-470.94	8,771.71	1,484.00	1,341.79	142.21	10.435		
18,100.00	9,259.00	16,651.25	7,774.00	207.76	206.70	0.00	-471.03	8,871.71	1,484.00	1,340.26	143.74	10.324		
18,200.00	9,259.00	16,751.25	7,774.00	210.05	208.99	0.00	-471.12	8,971.71	1,484.00	1,338.72	145.28	10.215		
18,300.00	9,259.00	16,851.25	7,774.00	212.34	211.29	0.00	-471.20	9,071.71	1,484.00	1,337.18	146.82	10.108		
18,400.00	9,259.00	16,951.25	7,774.00	214.63	213.58	0.00	-471.29	9,171.71	1,484.00	1,335.65	148.35	10.003		
18,500.00	9,259.00	17,051.25	7,774.00	216.92	215.88	0.00	-471.38	9,271.71	1,484.00	1,334.11	149.89	9.901		
18,600.00	9,259.00	17,151.25	7,774.00	219.21	218.17	0.00	-471.47	9,371.71	1,484.00	1,332.57	151.43	9.800		
18,700.00	9,259.00	17,251.25	7,774.00	221.50	220.47	0.00	-471.55	9,471.71	1,484.00	1,331.03	152.97	9.701	•	
18,800.00	9,259.00	17,351.25	7,774.00	223.79	222.76	0.00	-471.64	9,571.71	1,484.00	1,329.49	154.51	9.605		
18,900.00	9,259.00	17,451.25	7,774.00	226.08	225.06	0.00	-471.73	9,671.71	1,484.00	1,327.95	156.05	9.510		
19,000.00	9,259.00	17,551.25	7,774.00	. 228.37	227.36	0.00	-471.82	9,771.71	1,484.00	1,326.41	157.59	9.417		
19,100.00	9,259.00	17,651.25	7,774.00	230.66	229.65	0.00	-471.90	9,871.71	1,484.00	1,324.87	159.13	9.326		
19,200.00	9,259.00	17,751.25	7,774.00	232.95	231.95	0.00	-471.99	9,971.71	1,484.00	1,323.33	160.67	9.236		
19,211.29	9,259.00	.17,762.54	7,774.00	233.21	232.21	. 0.00	-472.00	9,983.00	1,484.00	1,323.15	160.85	9.226	,	

Anticollision Report

Company:

Matador Resources

Project:

Eddy County, NM

Leatherneck Fed - 131H - OH - Prelim Plan A

Reference Site:

Leatherneck Fed

Site Error: Reference Well:

Offset Design

0.00 usft

Well Error:

202H 0.00 usft

Reference Wellbore

ОН

Prelim Plan A Reference Design:

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method:

Output errors are at

Database: Offset TVD R Well 202H

Rig @ 3269.00usft (GL:3,240' + KB:29')

0.00 usft '

Rig @ 3269.00usft (GL:3,240' + KB:29')

Grid .

Minimum Curvature

2.00 sigma

; WellPlanner1 Offset Datum

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	"	 \$20 S.11	21.5	. .		:		1.:	 	-	~			 	

rvey Progra				- 131H - UI DGM, 8500-MW									Offset Well Error:	0.00 us	
Refere		Offse		Semi Major	-				Dista	ince .		*	Oliset Well Effor:	0.00 us	:
	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbore	Centre	Between	Between	Minimum	Separation	Warning		
Depth	Depth	Depth	Depth	4 ***	/ - f::	Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation	Factor	•		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)				
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	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 CC	J, ES		
1,500.00	1,500.00	1,495.73	1,495.73	4.34	4.34	1.19	880.14	18.21	880.33	871,65	8.68	101.391			
1,600.00	1,600.00	1,593.36	1,593.32	4.43	4.42	1.03	. 880.57	15.79	880.72	871.87	8.85	99.483			
1,700.00	1,699.99	1,690.89	1,690.76	4.54	4.53	155.20	881.29	11.73	882.19	873.12	9.07	97.256			
1,800:00	1,799.96	1,788.25	1,787.95	4.67	4.66	154.89	882.30	6.05	885.54	876.20	9.33	94.876			
1,900.00	1,899.86	1,885.39	1,884.81	4.82	4.82	154.51	883.59	-1.23	890.78	881.13	9.64	92.365			
2,000.00	1,999.68	1,984.57	1,983.62	5.00	5.01	154.10	885.10	-9.72	897.81	887.81	10.00	89.759			
	•				-										- -
2,100.00	2,099.37	2,084.07	2,082.73	5.19	5.21	153.74	886.62	-18.26	906.45	896.05	10.40	87.142			-
2,200.00	2,198.90	2,183.45	2,181.74	5.41	5.43	153.42	888.14	-26.79	916.67	905.83	10.84	84.583		*	
2,300.00	2,298.36	2,282.77	2,280.68	5.65	5.67	153.18	889.65	-35.31	927.68	916.38	11.30	82.063			- [
2,400.00	2,397.81	2,382.09	2,379.62	5.90	5.93	152.95	891.16	-43.84	938.71	926.91	11.80	79.557			- 1
2,500.00	2,497.26	2,481.40	2,478.56	6.17	6.19	152.72	892.68	-52.36	949.76	937.44	12.32	77.097			
2,600.00	2,596.71	2,580.72	2,577.50	6.45	6.47	152.50	894.19	-60.88	960.82	947.96	12.86	74.708		.*	\cdot
2,700.00	2,696.16	2,680.04	2,676.44	6.74	6.75	152.28	895.71	-69.40	971:89	958.47	13.42	72.409			-
2,800.00	2,795.62	2,779.36	2,775.37	7.04	7.05	152.06	897.22	-77.93	982.98	968.98	14.00	70.209			
2,900.00	2,895.07	2,878.67	2,874.31	7.35	7.35	151.85	898.73	-86.45	994.08	979.48	14.59	68.115			-
3,000.00	2,994.52	2,977.99	2,973.25	7.66	7.66	151.65	900.25	-94.97	1,005.19	989.99	15.20	66.127			
												•			
3,100.00	3,093.97	3,077.31	3,072.19	7.99	7.97	151.45	901.76	-103.49	1,016.32	1,000.50	15.82	64.244			
3,200.00	3,193.43	3,176.62	3,171.13	, 8.31	8.29	. 151,25	903.28	-112.02	1,027.46	1,011.01	16.45	62.464			
3,300.00	3,292.88	3,275.94	3,270.07		8.62	151.06	. 904.79	-120.54	1,038.61	1,021.52	17.09	60.782			
3,400.00	3,392.33	3,375.26	3,369.01	8.98	8.94	150.88	906.31	-129.06	1,049.77	1,032.03	17.73	59.194			-
3,500.00	3,491.78	3,474.58	3,467.95	9.33	9.27	150.69	907.82	-137.58	1,060.94	1,042.55	18.39	57.696			
3,600.00	3,591.23	3,573.89	3,566.89	9.67	9.61	150.51	909.33	-146.11	1,072.12	1,053.07	19.05	56.280			
3,700.00	3,690.69	3,673.21	3,665.83	10.02	9.95	150.34	910.85	-154.63	1,083.31	1,063.60	19.72	54.944			
3,800.00	3,790.14	3,772.53		10.37	10.29	150.16	912.36	-163.15	1,094.51	1,074.13	20.39	53.682			
3,900.00	3,889.59	3,879.01	3,870.95	10.72	10.65	150.05	913.76	-171.00	1,105.42	1,084.33	21.09	52.415			
4,000.00	3,989.04	3,986.17	3,977.99	11.08-	11.01	150.09	914.64	-175.96	1,115.65	1,093.86	21.79	51.205			
						4								,	-
4,100.00	4,088.50	4,093.36	4,085.15	11.44	11.35	150.27	914.99	-177.95	1,125.19	1,102.71	22.48	50.055		•	
4,200.00	4,187.95	4,205.85	4,185.95	11.80	11.71	150.54	915.00	-178.00	1,134.30	1,111.13	23.17	48.951			1
4,300.00	4,287.40	4,306.39	4,285.40	12.16	12.02	150.79	, 915.00	· -178.00	1,143.43	1,119.60	23.83	47.982			.
4,400.00	4,386.85		4,384.85	12.52	12.34	151.05	915.00	-178.00		. 1,128.08	. 24.49	47.059			
4,500.00	4,486.30	4,507.49	4,484.30	12.89	12.66	151.30	915.00	-178.00	1,161.74	1,136.59	25.16	46.179			
4,600.00	4,585.76	4,608.04	4,583.76	13.25	12.99	151.54	915.00	-178.00	1,170.94	1,145.11	25.83	45.339			
4,700.00	4,685.21	4,708.58	4,683.21	13.62	13.31	151.78	915.00	-178.00	1,180.15	1,153.65	26.50	44.537			
4,800.00	4,784.66	4,809.13	4,782.66	13.99	13.64	152.02	915.00	-178.00	1,189.38	1,162.21	27.17	43.772			
4,900.00	4,884.11	4,909.68	4,882.11	14.36	13.96	152.25	915.00	-178.00	1,198.63	1,170.78	27.85	43.040			
5,000.00	4,983.57	4,989.77	4,981.57	14.73	14.23	152.48	915.00	-178.00	1,207.90	1,179.44	28.46	42.440			
				• -	•			•			·-	,			
5,100.00	5,083.02	5,089.22	5,081.02	15.10	14.55	152.71	915.00	-178.00	1,217.19	1,188.05	-29.14	41.772			
5,100.00	5,083.02			15.10											

Anticollision Report

Company: Project:

Matador Resources

Eddy County, NM

Reference Site: Site Error:

Leatherneck Fed 0.00 usft

Reference Well:

202H

Well Error: Reference Wellbore

ОН

Reference Design:

0.00 usft

Prelim Plan A

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method:

Output errors are at Database:

Offset TVD Reference:

Well 202H

Rig @ 3269.00usft (GL:3,240' + KB:29')

Rig @ 3269.00usft (GL:3,240' + KB:29')

Grid

Minimum Curvature 2.00 sigma

WellPlanner1

rvey Prog	jram: ∪-ivi	IWD+HDGM, 1	200-101000-11	DGIVI, DODO-IVIV	D-11DGIVI								Offset Well Error:	0.00 us
Refe	rence	Offs	et	Semi Major	Axis				Dista	nce				
easured	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbor	e Centre	Between	Between	Minimum	Separation	Warning	,
Depth	Depth	Depth	Depth	·.		Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation	Factor		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft) -	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
5,200.00	5,182.47	5,188.68	5,180.47	15.48	14.88	152.94	915.00	-178.00	1,226.50	1,196.68	29.82	41.131		
5,300.00	5,281.92	5,288.13	5,279.92	15.85	15.21	153.16	915.00	-178.00	1,235.83	1,205.33	30.50	40.518		
5,400.00	5,381.37	5,387.58	5,379.37	16.22	15.54	153.37	915.00	-178.00	1,245.18	1,213.99	31.18	39.930		
5,500.00	5,480.83	5,487.03	5,478.83	16.60	15.88	153.59	915.00	-178.00	1,254.54	1,222.67	31.87	39.365		•
5,600.00	5,580.28	5,586.49	5,578.28	16.97	16.21	153.80	915.00	-178.00	1,263.92	1,231.36	32.56	38.823		
5,700.00	5,679.73	5,685.94	5,677.73	17.35	16.54	154.00	915.00	-178.00	1,273.32	1,240.07	33.24	38.302		
E 900 00	5,779.18	5,785.39	5,777.18	17.73	16.00	154.04	015.00	470.00	4 202 72	1,248.80	22.02	27.004		
5,800.00		5,884.84	5,876.64		16.88 17.22	154.21	915.00	-178.00	1,282.73		33.93	37.801		
5,900.00				18.10		154.41	915.00	-178.00	1,292.16	1,257.53	34.62	37.319		
6,000.00		5,984.35	5,976.15	18.48	17.55	154.64	915.00	-178.00	1,301.05	1,265.74	35.32	36.840		
6,100.00		6,084.08	6,075.87	18.84	17.89	154.82	915.00	-178.00	1,307.71	1,271.71	36.01	36.320		
6,200.00	6,177.76	6,183.96	6,175.76	19.19	18.23	154.93	915.00	-178.00	1,312.01	1,275.32	36.69	35.757		
6,300.00	6,277.73	6,283.94	6,275.73	19.53	18.57	154.98	915.00	-178.00	1,313.95	1,276.57	37.38	35.155		
6,400.00		6,383.94	6,375.73	19.84	18.91	0.57	915.00	-178.00	1,314.06	1,276.03	38.03	34.549		
6,500.00		6,483.94	6,475.73	20.14	19.25	. 0.57	915.00	-178.00	1,314.06	1,275.37	38.69	33.964		
6,600.00		6,583.94	6,575.73	20.44	19.60	0.57	915.00	-178.00	1,314.06	1,274,72	39.35	33.395		
6,700.00		6,683.94	6,675.73	20.75	19.94	0.57	915.00	-178.00	1,314.06	1,274.06	40.01	32.844		
_			_				_							
6,800.00		6,783.94	6,775.73	21.06	20.28	0.57	915.00	-178.00	1,314.06	1,273.39	40.67	32.310		
6,900.00	6,877.73	6,883.94	6,875.73	21.36	20.63	0.57	915.00	-178.00	1,314.06	1,272.73	· 41.33	31.791		
7,000.00	6,977.73	6,983.94	6,975.73	21.67	20.97	0.57	915.00	-178.00	1,314.06	1,272.06	42.00	31.287		
7,100.00	7,077.73	7,083.94	7,075.73	21.99	21.32	0.57	915.00	-178.00	1,314.06	1,271.40	42.67	30.798		
7,200.00	7,177.73	7,183.94	7,175.73	22.30	21.66	0.57	915.00	-178.00	1,314.06	1,270.73	43.34	30.323		
7,300.00		7,283.94	7,275.73	22.61	22.01	0.57	915.00	-178.00	1,314.06	1,270.06	44.01	29.861		
7,400.00		7,383.94	7,375.73	22.93	22.36	0.57	915.00	-178.00	1,314.06	1,269.39	44.68	29.412		
7,500.00		7,483.94	7,475.73	· 23.25	22.70	0.57	915.00	-178.00	1,314.06	1,268,71	45.35	28.975		
7,600.00		7,583.94	7,575.73	23.56	23.05	0.57	915.00	-178.00	1,314.06	1,268.04	46.03	28.551		
7,700.00	7,677.73	7,683.94	7,675.73	23.88	23.40	0.57	915.00	-178.00	1,314.06	1,267.36	46.70	28.138		
7,800.00	7,777.73	7,783.94	7,775.73	24.20	23.75	0.57	915.00	-178.00	1,314.06	1,266.69	47.38	27.736		
7,900.00		7,883.94	7,875.73	24.52	24.09	0.57	915.00	-178.00	1,314.06	1,266.01	48.06	27.730		
8,000.00		7,983.94	7,975.73	24.85	24.44	0.57	915.00	-178.00	1,314.06	1,265.33	48.74	26.963		
8,100.00		8,083.94	8,075.73	25.17	24.44	0.57	915.00	-178.00	1,314.06		49.42			
8,200.00				25.49	25.14					1,264.65		26.592		
0,200.00	0,177.73	8,183.94	8,175.73	25.49	25.14	0.57	915.00	-178.00	1,314.06	1,263.97	50.10	26.231		
8,300.00	8,277.73	8,283.94	8,275.73	25.82	25.49	0.57	915.00	-178.00	1,314.06	1,263.29	50.78	25.878		
8,400.00		8,383.94	8,375.73	26.14	25.84	0.57	915.00	-178.00	1,314.06	1,262.60	51.46	25.535		
8,500.00		8,483.94	8,475.73	26.47	26.19	0.57	915.00	-178.00	1,314.06	1,261.92	52.15	25.200		
8,600.00		8,635.40	8,625.83	26.80	26.23	1,29	912.03	-161.44	1,312.32	1,259.80	52.52	24.987		
8,700.00		8,775.60	8,756.46	26.96	26.20	3.46	903.22	-112.29	1,307.09	1,254.45	52.64	24.829		
8,800.00		8,893.26	8,854.04	26.97	26.22	-95.31	891.69	-47.95	1,301.62	1,248.97	52.65	24.723		*
8,900.00	8,873.95	8,997.39	8,927.71	26.98	26.30	-93.35	878.74	24.30	1,298.07	1,245.34	52.73	24.617		
8,952.57		9,027.99	8,946.72	26.98	26.36	-92.75	874.72	47.93	1,297.42	1,244.64	52.78	24.582	•	
9,000.00	8,964.77	9,050.00	8,959.62	26.99	26.39	-92.25	871.99	65.55	1,297.95	1,245.15	52.80	24.582		
9,100.00	9,047.00	9,112.21	8,992.39	27.02	26.55	-90.70	865.06	117.94	1,302.18	1,249.25	52.93	24.603		
200.00	0 140 40	0.169.64	0.017.15	27.00	20 70	PD 34	950.90	169.25	1 200 00	1 050 70	E0.40	94.055		
9,200.00		9,168.64	9,017.15	27.08	26.76	-88.24	859.82	168.35	1,309.92	1,256.79	53.13	24.655		
9,300.00		9,224.67	9,036.83	27.18	27.01	-85.23	855.66	220,62	1,317.23	1,263.74	53.49	24.628		
,400.00		9,280.44	9,051.36	27.41	27.33	-83.24	852.58	274.35	1,322.76	1,268.70	54.06	24.469		
9,500.00		9,336.03	9,060.69	27.89	27.70	-82.08	850.59	329.10	1,326.19	1,271.31	54.88	24.163		
9,600.00	9,258.83	9,391.55	9,064.79	28.59	28.12	-81.68	849.72	384.43	1,327.32	1,271.36	55.97	23.716		
9,658.27	9,259.84	9,437.32	9,065.00	29.09	28.52	-81.65	849.67	430.20	1,327.57	1,270.71	56.86	23.348		
9,700.00	9,259.00	9,437.32	9,065.00	29.46	28.90		849.66	430.20	1,327.37					
		9,479.06				-81.68 91.69				1,269.71	57.60	23.042		
00.008,6	9,259.00		9,065.00	30.49	. 29.92	-81.68	849.64	571.95	1,327.39	1,267.74	59.64	22,255		
9,900.00	9,259.00	9,679.06	9,065.00	31.65	31.08	-81.68	849.62	671.95	1,327.46	1,265.50	61.95	.21.427		
0,000.00	9,259.00	9,779.06	9,065.00	32.94	32.37	-81.68 .	849.61	771.95	1,327.53	1,263.02	. 64.50	20.580		
,100.00	9,259.00	9,879.06	9,065.00	34.33	33.76	-81.68	849.59	871.95	1,327.60	1,260.33	67.27	19.735		

Anticollision Report

Company:

Matador Resources

Project:

Eddy County, NM

Reference Site: Site Error:

Leatherneck Fed 0.00 usft

Reference Well:

202H

Well Error:

0.00 usft

Reference Wellbore

t OH Reference Design:

Prelim Plan A

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

Rig @ 3269.00usft (GL:3,240' + KB:29') Rig @ 3269.00usft (GL:3,240' + KB:29') Grid

North Reference:

Survey Calculation Method:

Minimum Curvature 2.00 sigma

Well 202H

Output errors are at

Database:

:: WellPlanner1

Offset TVD Reference: Offset Datum

ffset De rvey Prog	ıram: 0-M	WD+HDGM, 1:	200-MWD+HI	- 131H - OI ЭGM, 8500-МW	/D+HDGM	, , , , , , ,	w w %	-			-		Offset Site Error: Offset Well Error:	0.00 น 0.00 น
Refer		Offs		Semi Major			•		Dista	ance		*	ÿ	
Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbor	+E/-W	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(*)	(usft)	(usft)	(usft)	(usft)	(usft)			
10,200.00	9,259.00	9,979.06	9,065.00	35.82	35.25	-81.69	849.57	971.95	1,327.66	1,257.44	70.22	18.906		
10,300.00	9,259.00	10,079.06	9,065.00	37.39	36.82	-81.69	849.55	1,071.95	1,327.73	1,254.39	73.35	18.102		
10,400.00	9,259.00	10,179.06	9,065.00	39.03	38.47	-81.69	849.54	1,171.95	1,327.80	1,251.19	76.61	17.331		
10,500.00	9,259.00	10,279.06	9,065.00	40.74	40.18	-81.69	849.52	1,271.95	1,327.87	1,247.86	80.01	16.597		
10,600.00	9,259.00	10,379.06	9,065.00	42.50	41.95	-81.69	849.50	1,371.95	1,327.94	1,244.42	83.52	15.900		
10,700.00	9,259.00	10,479.06	9,065.00	44.32	43.77	-81.69	849.48	1,471.95	1,328.01	1,240.89	87.12	15.243		
		,	-,		7			1,111100	1,020.01	1,270.00	, , , ,	10.210		
10,800.00		10,579.06	9,065.00	46.18	45.63	-81.69	849.47	1,571.95	1,328.08	1,237.26	90.82	14.624		
10,900.00	9,259.00	10,679.06	9,065.00	48.07	47.53	-81.69	849.45	1,671.95	1,328.15	1,233.56	94.59	14.041		
11,000.00	9,259.00	10,779.06	9,065.00	50.01	49.47	-81.69	849.43	1,771.95	1,328.22	1,229.79	98.43	13.495		
11,100.00	9,259.00	10,879.06	9,065.00	51.97	51.44	-81.69	. 849.42	1,871.95	1,328.29	1,225.96	102.33	12.981		
11,200.00	9,259.00	10,979.06	9,065.00	53.96	53.43	-81.69	849.40	1,971.95	1,328.36	1,222.08	106.28	12.499		
	•													
11,300.00	9,259.00	11,079.06	9,065.00	55.97	55.45	-81.69	849.38	2,071.95	1,328.42	1,218.15	110.28	12.046		
11,400.00	9,259.00	11,179.06	9,065.00	58.01	57,49	-81.69	849.36	2,171.94	1,328.49	1,214.17	114.32	11.621		
11,500.00	9,259.00	11,279.06	9,065.00	60.06	59.55	-81.69	849.35	2,271.94	1,328.56	1,210.16	118.41	11.220		
11,600.00	9,259.00	11,379.06	9,065.00	62.14	61.63	-81.69	849.33	2,371.94	1,328.63	1,206.11	122.52	10.844		
11,700.00	9,259.00	11,479.06	9,065.00	64.23	63.72	-81.69	849.31	2,471.94	1,328.70	1,202.03	126.67	10.489		
													*	
11,800.00	9,259.00	11,579.06	9,065.00	66.33	65.83	-81.69	849.29	2,571.94	1,328.77	1,197.92	130.85	10.155		
11,900.00	9,259.00	11,679.06	9,065.00	68.45	67.95	-81,69	849.28	2,671.94	1,328.84	1,193.79	135.05	9.840		
12,000.00	9,259.00	11,779.06	9,065.00	70.58	70.08	-81.69	849.26	2,771.94	1,328.91	1,189.63	139.28	9.542	•	
12,100.00	. 9,259.00	11,879.06	9,065.00	72.72	72.23	-81.69	849.24	2,871.94	1,328.98	1,185.45	143.52	9.260		
12,200.00	9,259.00	11,979.06	9,065.00	74.87	74.38	-81.69	849.22	2,971.94	1,329.05	1,181.26	147.79	8.993		
									• .		-			
12,300.00	9,259.00	12,079.06	9,065.00	77.02	76.54	-81.69	849.21	3,071.94	1,329.12	1,177.04	152.07	8.740		
12,400.00		12,179.06	9,065.00	79.19	78.71	-81.69	849.19	3,171.94	1,329.18	1,172.81	156.37	8.500		
12,500.00	9,259.00	12,279.06	9,065.00	81.37	80.89	-81.70	849.17	3,271.94	1,329.25	1,168.56	160.69	8.272		
12,600.00	9,259.00	12,379.06	9,065.00	83.55	83.07	-81.70	849.15	3,371.94	1,329.32	1,164.30	165.02	8.056		
12,700.00	9,259.00	12,479.06	9,065.00	85.74	85.26	-81.70	849.14	3,471.94	1,329.39	1,160.03	169.36	7.849		
12,800.00	9,259.00	12,579.06	9,065.00	87.93	87.46	-81.70	. 849.12	3,571.94	1,329.46	1,155.74	173.72	7.653		
12,900.00	9,259.00	12,679.06	9,065.00	90.13	89.66	-81.70	849.10	3,671.94	1,329.53	1,151.45	178.08	7.466		
13,000.00		12,779.06	9,065.00	92.34	91.87	-81.70	849.08	3,771.94	1,329.60	1,147.14	182.46	7.287		
13,100.00		12,879.06	9,065.00	94.55	94.09	-81.70	849.07	3,871.94	1,329.67	1,142.83	186.84	7.117		
13,200.00	9,259.00	12,979.06	9,065.00	96.76	96.30	-81.70	849.05	3,971.94	1,329.74	1,138.50	191.24	6.953		
13,300.00		13,079.06	9,065.00	98.98	98.52	-81.70	849.03	4,071.94	1,329.81	1,134.17	195.64	6.797		
13,400.00		13,179.06	9,065.00	101.20	100.75	-81.70	849.01	4,171.94	1,329.88	1,129.83	200.05	6.648		
13,500.00		13,279.06	9,065.00	103.43	102.98	-81.70	849.00	4,271.94	1,329.94	1,125.48	204.47	6.505		
13,600.00		13,379.06	9,065.00	105.66	105.21	-81.70	848.98	4,371.94	1,330.01	1,121.12	208.89	6.367		
13,700.00	9,259.00	13,479.06	9,065.00	107.89	107.44	-81.70	848.96	4,471.94	1,330.08	1,116.76	213.32	6.235	•	
13 900 00	0.350.00	12 570 00	0.005.00	110.10	100.00	04.70	. 040.04	4 574 04	1 220 47	1 140 40	047.75	6 400		
13,800.00	9,259.00	13,579.06	9,065.00	110.13	109.68	-81.70	848.94	4,571.94	1,330.15	1,112.40	217.75	6.108	•	
3,900.00	9,259.00	13,679.06	9,065.00	112.37	111.92	-81.70	848.93	4,671.94	1,330.22	1,108.02	222.20	5.987		
4,000.00	9,259.00	13,779.06	9,065.00	. 114.61	114.17	-81.70	848.91	4,771.94	1,330.29	1,103.65	226.64	5.870		
4,100.00	9,259.00	13,879.06	9,065.00	116.86	116.41	-81.70	848.89	4,871.94	1,330.36	1,099.26	231.09	5.757		
4,200.00	9,259.00	13,979.06	9,065.00	119.10	118.66	-81.70	848.87	4,971.94	1,330.43	1,094.88	235.55	5.648		
4 200 00	0.050.00	14 070 00	0.005.00	404.05	120.01	94.70	040.00	E 074 C1	4 000 50	4 000 :5	040.01		•	
4,300.00	9,259.00	14,079.06	9,065.00	121.35	120.91	-81.70	848.86	5,071.94	1,330.50	1,090.49	240.01	5.543		
4,400.00	9,259.00	14,179.06	9,065.00	123.60	123.16	-81.70	848.84	5,171.94	1,330.57	1,086.09	244.48	5.443		
4,500.00	9,259.00	14,279.06	9,065.00	125.86	125.42	-81.70	848.82	5,271.94	1,330.64	1,081.69	248.95	5.345		
4,600.00	9,259.00	14,379.06	9,065.00	128.11	127.68	-81.70	848.80	5,371.94	1,330.70	1,077.29	253.42			
4,700.00	9,259.00	14,479.06	9,065.00	130.37	129.93	-81.70	848.79	5,471.94	1,330.77	1,072.88	257.89	5.160		
	0.0== ==		0.00		40.5	A : -:						:		
4,800.00	9,259.00	14,579.06	9,065.00	132.63	132.19	-81.71	848.77	5,571.94	1,330.84	1;068.47	262.37	5.072		
4,900.00	9,259.00	14,679.06	9,065.00	134.89	134.46	-81.71	848.75	5,671.94	1,330.91	1,064.06	266.86	4.987		
5,000.00	9,259.00	14,779.06	9,065.00	137.15	136.72	-81.71	848.73	5,771.94	1,330.98	1,059.64	271.34	4.905		
5,100.00	9,259.00	14,879.06	9,065.00	139.41	138.98	-81.71	848.72	5,871.94	1,331.05	1,055.22	275.83	4.826		
5,200.00	9,259.00	14,979.06	9,065.00	141.68	141.25	-81.71	848.70	5,971.94	1,331.12	1,050.80	280.32	4.749		
														•
5,300.00	9,259.00	15,079.06	9,065.00	143.94	143.52	-81.71	848.68	6,071.94	1,331.19	1,046.37	284.82	4.674		

Anticollision Report

Company:

Matador Resources

Project:

Eddy County, NM

Reference Site:

, Leatherneck Fed

Site Error: Reference Well: 0.00 usft

Well Error:

202H 0.00 usft

Reference Wellbore

Reference Design:

, OH

Prelim Plan A

Local Co-ordinate Reference:

TVD Reference: MD Reference:

Well 202H

Rig @ 3269.00usft (GL:3,240' + KB:29')

Rig @ 3269.00usft (GL:3,240' + KB:29') Grid

North Reference:

Survey Calculation Method: Output errors are at

Minimum Curvature 2.00 sigma

Database:

WellPlanner1

Offset TVD Reference:

Offset D	_			- 131H - OI		ı Plan A	- "•						Offset Site Error:	0.00 usft
Survey Pro	gram: 0-M erence	WD+HDGM, 1: Offse		DGM, 8500-MW Semi Major				,	Dista	ınce			Offset Well Error:	0.00 usft
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbor	e Centre +E/-W	Between Centres	Between É	Minimum Separation	Separation Factor	Warning	. *
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(*)	(usft)	(usft)	(usft)	(usft)	(usft)			
15,400.0		15,179.06	9,065.00	146.21	145.79	-81.71	848.66	6,171.94	1,331.26	1,041.94	289.31	4.601		*
15,500.0		15,279.06	9,065.00	148.48	148.06	-81.71	848.65	6,271.94	1,331.33	1,037.51	293.81	4.531 .		
15,600.0		15,379.06	9,065.00	150.75	150.33	-81.71	848.63	6,371.94	1,331.40	1,033.08	298.31	4.463		
15,700.0		15,479.06	9,065.00	153.02	152.60	-81.71	848.61	6,471.94	1,331.46	1,028.65	302.82	4.397		
15,800.0		15,579.06	9,065.00	155.29	154.87	-81.71	848.59	6,571.94	1,331.53	1,024.21	307.32	4.333		
15,900.0	9,259.00	15,679.06	9,065.00	157.57	157.15	-81.71	848.58	6,671.94	1,331.60	1,019.77	311.83	4.270		
16,000.0	9,259.00	15,779.06	9,065.00	159.84	159.42	-81.71	848.56	6,771.94	1,331.67	1,015.33	316.34	4.210		
16,100.0	9,259.00	15,879.06	9,065.00	162.12	161.70	-81.71	848.54	6,871.94	1,331.74	1,010.89	320.85	4.151		
16,200.0	9,259.00	15,979.06	9,065.00	164.39	163.97	-81.71	848.53	6,971.94	1,331.81	1,006.45	325.36	4.093	•	
16,300.0	9,259.00	16,079.06	9,065.00	166.67	166.25	-81.71	848.51	7,071.94	1,331.88	1,002.00	329.88	4.038		
16,400.0	9,259.00	16,179.06	9,065.00	168.95	168.53	-81.71	848.49	7,171.94	1,331.95	997.55	334.39	3.983		
40 500 0		40.070.00	0.005.00	474.00	,									
16,500.0		16,279.06	9,065.00	171.22	170.81	-81.71	. 848.47	7,271.94	1,332.02	993.11	338.91	3.930		
16,600.0		16,379.06	9,065.00	. 173.50	173.09	-81.71	848.46	7,371.94	1,332.09	988.66	343.43	3.879		
16,700.0		16,479.06	9,065.00	175.78	175.37	-81.71	848.44	7,471.94	1,332.16	984.20	347.95	3.829		
16,800.0		16,579.06	9,065.00	178.06	177.65	-81.71	. 848.42	7,571.94	1,332.22	979.75	352.47	3.780		
16,900.0	9,259.00	16,679.06	9,065.00	180.34	179.93	-81.71	848.40	7,671.94	1,332.29	975.30	357.00	3.732		
17,000.0	9,259.00	16,779.06	9,065.00	182.63	182.21	·-81.71	848.39	7,771.94	1,332.36	970.84	361.52	3.685		
17,100.0	9,259.00	16,879.06	9,065.00	184.91	184.50	-81.71 .	848.37	7,871.94	1,332.43	966.39	366.05	3.640		
17,200.0	9,259.00	16,979.06	9,065.00	187.19	186.78	81.72	848.35	7,971.94	1,332.50	961.93	,370.57	3.596		
17,300.0	9,259.00	17,079.06	9,065.00	189.48	189.07	-81.72	848.33	8,071.94	1,332.57	957.47	375.10	3.553		
17,400.0	9,259.00	17,179.06	9,065.00	191.76	191.35	-81.72	848.32	8,171.94	1,332.64	953.01	379.63	3.510		
17,500.0	9,259.00	17,279.06	9,065.00	104.04	193.64	-81.72	848.30	0.074.04	4 220 74	. 040.55	201.40	0.400		
17,500.0		17,279.06	9,065.00	194.04 196.33	195.92	-81.72 -81.72	848.28	8,271.94	1,332.71	. 948.55	384.16	3.469		
17,700.0		17,479.06	9,065.00	198.62	198.21			8,371.94	1,332.78	. 944.08	388.69	3.429		
17,700.0		17,479.06	9,065.00			-81.72	848.26	8,471.94	1,332.85	939.62	393.22	3.390		
17,800.0		17,679.06	9,065.00	200.90 203.19	200.50 202.78	-81.72 -81.72	848.25	8,571.94 8,671.94	1,332.92	935.16	397.76	3.351		
17,900.0	3,235.00	17,079.00	3,000.00	203.19		-01.72	848.23	0,071,94	1,332.98	930.69	402.29	3.313	•	
18,000.0	9,259.00	17,779.06	9,065.00	205.48	205.07	-81.72	848.21	8,771.94	1,333.05	926.23	406.83	3.277		
18,100.0	9,259.00	17,879.06	9,065.00	207.76	207.36	-81.72	848.19	8,871.94	1,333.12	921.76	411.36	3.241		
18,200.0	9,259.00	17,979.06	9,065.00	210.05	209.65	-81.72	848.18	8,971.94	1,333.19	917.29	415.90	3.206		
18,300.0	9,259.00	18,079.06	9,065.00	212.34	211.94	-81.72	848.16	9,071.94	1,333.26	912.82,	420.44	3.171		•
18,400.0	9,259.00	18,179.06	9,065.00	214.63	214.23	-81.72	848.14	9,171.94	1,333.33	908.35	424.98	3.137		
40 500 0	9,259.00	18,279.06		040.00	040.50	04.70	242.42	0.074.04						
18,500.0 18,600.0		18,379.06	9,065.00 9,065.00	216.92 219,21	216.52 218.81	-81.72 04.70	848.12	9,271.94	1;333.40	903.88	429.51	3.104		
18,700.0		18,479.06	9,065.00	219.21	221,10	-81.72 -81.72	848.11-	9,371.94	1,333.47	899.41	434.05	3.072	•	
18,800.0		18,579.06	9,065.00				848.09	9,471.94	1,333.54	894.94	438.60	3.040		
18,900.0		18,679.06	9,065.00	223.79 226.08	223.39 225.68	-81.72 -81.72	848.07 848.05	9,571.94 9,671.94	1,333.61 1,333.67	890.47 886.00	443.14 447.68	3.009 2.979		
. 10,500.0		10,013.00	5,005.00		220.00	-01.72	0-0.05	3,071,34	1,555.07	000.00	447,00			
- 19,000.0	9,259.00	18,779.06	9,065.00	228.37-	227.97	-81.72	848.04	9,771.94	1,333.74	881.52	452.22	2.949		
19,100.0	9,259.00	18,879.06	9,065.00	230.66	230.26	-81.72	848.02	9,871.94	1,333.81	877.05	456.76	2.920		
19,200.0		18,979.06	9,065.00	232.95	232.55	-81.72	848.00	9,971.94	1,333.88	872.57	461.31	2.892		
19,211.2	9,259.00	18,990.35	9,065.00	233.21	232.81	-81.72	848.00	9,983.23	1,333.89	. 872.07	461.82	2.888 SF	· ·	

Anticollision Report

Company: Project:

Matador Resources

Eddy County, NM

Reference Site:

Leatherneck Fed

Site Error: Reference Well: 0.00 usft 202H

Well Error:

0.00 usft

Reference Wellbore

ОН

Reference Design: Prelim Plan A Local Co-ordinate Reference:

TVD Reference:

MD Reference:

Grid

Rig @ 3269.00usft (GL:3,240' + KB:29') Rig @ 3269.00usft (GL:3,240' + KB:29')

North Reference:

Survey Calculation Method:

Minimum Curvature 2.00 sigma

Well 202H

Output errors are at Database:

WellPlanner1

Offset TVD Reference:

urvey Prog		WD+HDGM, 1	200-MWD+HC		/D+HDGM	i rian A				-			Offset Site Error: Offset Well Error:	0.00 ust
Refer	ence	Offs	et	Semi Major	Axis				Dista	nce				
leasured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface	Offset Wellbore	+E/-W	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
					•	(°)	(usft)	(usft)		(usit)	(usit)			
0.00	0.00	0.00	0.00	0.00	0.00	180.00	-30.00	0.00	30.00	20.75		447.074		
100.00	100.00	100.00	100.00	0.13	0.13	180.00	-30.00	0.00	30.00	29.75	0.25	117.871		
200.00	200.00	200.00	200.00	0.49	0.49	180.00	-30.00	0.00	30.00	29.03	0.97	30.881		
300.00 400.00	300.00 400.00	300.00 400.00	300.00 400.00	0.84 1.20	0.84 1.20	180.00 180.00	-30.00 -30.00	0.00 0.00	30.00 30.00	28.31 27.59	1.69 2.41	17.768 12.472		
500.00	500.00	500.00	500.00	1.56	1.56	180.00	-30.00	0.00	30.00	26.88	3.12	9.608		
600.00	600.00	600.00	600.00	1.92	1.92	180.00	-30.00	0.00	30.00	26.16	3.84	7.814		
700.00	700.00	700.00	700.00	2.28	2.28	180.00	-30.00	0.00	30.00	25.44	4.56	6.584		
800.00	800.00	800.00	800.00	2.64	2.26	180.00	-30.00	0.00	30.00	24.73	5.27	5.689		
900.00	900.00	900.00	900.00	3.00	3.00	180.00	-30.00	0.00	30.00	24.73	5.99	5.008		
1,000.00	1,000.00	1,000.00	1,000.00	3.35	3.35	180.00	-30.00	0.00	30.00	23.29	6.71	4.473		
4 400 00	4 400 00		4 400 00	0.74	0.74	400.00	22.22	2.00	22.22	20.50	7.10	4044		
1,100.00	1,100.00	1,100.00	1,100.00	3.71	3.71	180.00	-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	180.00	-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	4.25	180.00	-30.00	0.00	30.00	21.49	8.51	3.527		
1,400.00 1,500.00	1,400.00 1,500.00	1,400.00 1,500.00	1,400.00 1,500.00	4.28 4.34	4.28 4.34	180.00 180.00	-30.00 -30.00	0.00	30.00 30.00	21.43 21.31	8.57 8.69	3.502 3.454 CC	•	
,,500.00	1,500.00	1,500.00	1,000.00	4.04	4,34		-30.00	0.00	30.00	21.31	0.09	J.+J4 CC		
1,600.00	1,600.00	1,599.50	1,599.50	4.43	4.43	-179.43	-30.81	-0.31	30.81	21.96	8.86	3.479		
1,700.00	1,699.99	1,698.97	1,698.93	4.54	4.53	-24.05	-33.23	-1.23	32.47	23.40	9.07	3.580		
1,800.00	1,799.96	1,798.41	1,798.28	4.67	4.66	-23.42	-37.26	-2.78	34.17	24.85	9.32	3.665		
1,900.00	1,899.86	1,897.82	1,897.50	4.82	4.82	-23.06	-42.89	-4.93	35.92	26.30	9.62	3.733		
2,000.00	1,999.68	1,997.20	1,996.57	5.00	• 5.00	-22.94	-50.13	-7.71	37.71	27.75	9.96	3.785		
2,100.00	2,099.37	2,096.54	2,095.47	5.19	5.20	-23.02	-58.98	-11.09	39.54	29.20	10.34	3.823		
2,200.00	2,198.90	2,204.17	2,194.12	5.41	5.44	-23.28	-69.41	-15.09	41.41	30.63	10.77	3.843		
2,300.00	2,298.36	2,304.19	2,293.36	5.65	5.69	-23.59	-80.79	-19.44	43.36	32.13	11.23	3.860		
2,400.00	2,397.81	2,395.79	2,392.59	5.90	5.93	-23.87	-92,17	-23.80	45.32	33.62	11.70	3.872		
2,500.00	2,497.26	2,504.23	2,491.83	6.17	6.23	-24.12	-103.55	-28.15	47.28	35.04	12.24	3.862		
2,600.00	2,596.71	2,604.24	2,591.07	6.45	6.52	-24.36	-114.93	-32.51	49.24	36.46	12.78	3.853		
2,700.00	2,696.16	2,704.26	2,690.30	6.74	6.82	-24.57	-126.31	-36.86	51.20	37.86	13.34	3.839		
2,800.00	2,795.62	2,804.28	2,789.54	7.04	7.13	-24.77	-137.69	-41.22	53.16	39.25	. 13.91	3.821		
2,900.00	2,895.07	2,904.30	2,888.77	7.35	7.45	-24.96	-149.07	-45.57	55.12	40.62	14.50	3.800		
3,000.00		3,004.32	2,988.01	7.66	7.78	-25.13	-160.45	-49.93	57.08	41.97	15.11	3.778		
3,100.00	3,093.97	3,095.66	3,087.24	7.99	8.08	-25.30	-171.83	-54.29	59.05	43.35	15.70	3.761		
3,200.00		3,195.64	3,186.48	8.31	8.42	-25.45	-183.21	-58.64	61.01	44.68	16.33	3.737		
3,300.00		3,304.38	3,285.71	8.65	8.79	-25.59	-194.59	-63.00	62.97	45.98	16.99	3.707		
3,400.00		3,404.40	3,384.95	8.98	9.14	-25.72	-205.96	-67.35	64.94	47.30	17.63	3.682		
3,500.00		3,504.42	3,484.18	9.33	9.50	-25.85	-217.34	-71.71	66.90	48.61	18.29	3.658		
3,600.00	3,591.23	3,604.44	3,583.42	9.67	9.85	-25.97	-228.72	-76.06	68.87	49.92	18.95	3.635		
3,700.00	3,690.69	3,704.46	3,682.65	10.02	10.21	-26.08	-240.10	-80.42	70.83	51.22	19.61	3.612		
3,800.00		3,804.48	3,781.89	- 10.37	10.57	-26.19	-251.48	-84.78	72.80	52.51	20.28	3.589		
3,900.00	3,889.59	3,895.50	3,881.12	10.72	10.90	-26.29	-262.86	-89.13	74.76	53.83	20.93	3.572		
4,000.00		4,004.52	3,980.36	11.08	11.30	-26.38	-274.24	-93.49	76.73	55.09	21.64	3.546		
4 100 00	4 000 50	4 404 54	4 070 00	44 44	11.07	26 47	.005.60	_07.04	70.00	EC 27	20.00	2 505		
4,100.00 4,200.00	4,088.50 4,187.95	4,104.54 4,204.56	4,079.60 4,178.83	11.44 11.80	11.67 12.04	-26.47 -26.56	-285.62 -297.00	-97.84 -102.20	78.69 80.66	56.37 57.65	22.32 23.01	3.525 3.505		
4,300.00			4,178.83	12.16	12.04	-26.64	-308.38	-102.20	82.62	58.92	23.70	3.486		
4,400.00		4,304.57 4,404.59	4,278.07	12.16	12.41	-26.64 -26.72	-308.38	-106.55	84.59	58.92 60.19	24.40			
4,500.00		4,504.61	4,377.30	12.52	13.16	-26.72 -26.79	-319.76	-115.27	86.56	61.46	25.10	3.449		
4,600.00	4,585.76	4,604.63	4,575.77	13.25	13.54	-26.87	-342.52	-119.62	88.52	62.73	25.80			
4,700.00		4,704.65	4,675.01	13.62	13.92	-26.93	-353.90	-123.98	90.49	63.99	26.50			
4,800.00		4,804.67	4,774.24	13.99	14.30	-27.00	-365.28	-128.33	92.46	65.25	27.21	3.398		
4,900.00	4,884.11	4,904.69	4,873.48	14.36	14.68	-27.06 27.13	-376.66	-132.69 -137.04	94.42 96.39	66.51 67.77	27.91 28.62	3.383 3.368		
5,000.00	4,983.57	5,004.71	4,972.71	14.73	15.06	-27.12	-388.04	-137.04	96.39	67.77	28.62	3.308		
5,100.00	5,083.02	5,104.73	5,071.95	15.10	15.44	-27.18	-399.42	-141.40	98.36	69.02	29.33	3.353		

Anticollision Report

Company:

Matador Resources

Project:

Eddy County, NM

Reference Site: Site Error: Leatherneck Fed 0.00 usft

Reference Well: Well Error:

202H 0.00 usft

Reference Wellbore

ОН

elerence wendore

Reference Design: Prelim Plan A

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method:

Output errors are at

Database:

Offset TVD Reference:

Well 202H

Rig @ 3269.00usft (GL:3,240' + KB:29')

Rig @ 3269.00usft (GL:3,240' + KB:29')

: Grid

Minimum Curvature

2.00 sigma WellPlanner1

Offset Des				- 132H - OI										0.00 us
urvey Progra	•			OGM, 8500-MW		war e nna .							Offset Well Error:	0.00 us
Refere	ence -	Offse	rt	Semi Major	Axis				Dista	ince				
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbore	Centre	Between	Between	Minimum	Separation	Warning	
Depth :	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation	Factor		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
5,200.00	5,182.47	5,195.25	5,171.18	15.48	15.79	-27.23	-410.79	-145.76	100.32	70.31	30.01	3.343		
5,300.00	5,281.92	5,295.23	5,270.42	15.85	16.17	-27.29	-422.17	-150.11	102.29	71.57	30.73	3.329		•
5,400.00	5,381.37	5,395.21	5,369.66	16.22	16.56	-27.34	-433.55	-154.47	104.26	72.82	31.44	3.316		•
5,500.00	5,480.83	5,495.19	5,468.89	16.60	16.94	-27.39	-444.93	-158.82	106.23	74.07	32.16	3.303		
5,600.00	5,580.28	5,604.83	5,568.13	16.97	17.36	-27.44	-456.31	-163.18	108.19	75.28	32.91	. 3.287		
5,700.00	5,679.73	5,704.85	5,667.36	17.35	17.75	-27.48	-467.69	-167.53	110.16	76.53	33.63	3.276		
5,800.00	5,779.18	5,804.87	5,766.60	17.73	18.14	-27.53	-479.07	-171.89	112.13	77.78	34.35	3.264		
5,900.00	5,878.64	5,904.89	5,865.83	18.10	18.52	-27.57	-490.45	-176.24	114.10	79.02	35.07	3.253		
6,000.00	5,978.15	5,995.08	5,965.05	18.48	18.87	-27.48	-501.83	-180.60	116.61	80.85	35.75	3.261		
6,100.00	6,077.87	6,097.81	6,067.16	18.84	19.27	-27.08	-512.36	-184.63	120.21	83.74	36.48	3.296		
6,200.00	6,177.76	6,200.79	6,169.78	19.19	19.64	-26.62	-520.35	-187.69	123.67	86.50	37.17	3.327	•	
6,300.00	6,277.73	6,303.87	6,272.69	19.53	20.01	-26.11	-525.75	-189.76	126.98	89.14	37.84	3.356		
6,400.00	6,377.73	6,407.06	6,375.84	19.84	20.36	179.93	-528.56	-190.83	129.58	91.12	38.46	3.370		
6,500.00	6,477.73	6,508.96	6,477.73	20.14	20.67	-180.00	-529.00	-190.63	130.00	90.94	39.06	3.328		
6,600.00	6,577.73	6,608.96	6,577.73	20.14	20.96	-180.00	-529.00	-191.00	130.00	90.32	39.68	3.276		
6,700.00	6,677.73	6,708.96	6,677.73	20.75	21.26	-180.00	-529.00	-191.00	130.00	89.69	40.31	3.225		
0,700.00	0,077.73	0,100.50	0,011.13	20.75	21.20	-100.00	-323.00	-131.00	130.00	03.03	70.01	3.223	•	
6,800.00	6,777.73	6,808.96	6,777.73	21.06	21.55	-180.00	-529.00	-191.00	130.00	89.06	40.94	3.175		
6,900.00	6,877.73	6,908.96	6,877.73	21.36	21.85	-180.00	-529.00	-191.00	130.00	88.42	41.58	3.127		
7,000.00	6,977.73	7,008.96	6,977.73	21.67	22.15	-180.00	-529.00	-191.00	130.00	87.78	42.22	3.079		
7,100.00	7,077.73	7,108.96	7,077.73	21.99	22.46	-180.00	-529.00	-191.00	130.00	87.14	42.86	3.033		
7,200.00	7,177.73	7,208.96	7,177.73	22.30	22.76	-180.00	-529.00	-191.00	130.00	86.50	43.50	2.989		
			•											
7,300.00	7,277.73	7,308.96	7,277.73	22.61	23.07	-180.00	-529.00	-191.00	130.00	85.86	44.14	2.945		
7,400.00	7,377.73	7,408.96	7,377.73	22.93	23.37	-180.00	-529.00	-191.00	130.00	85.21	44.79	2.903		•
7,500.00	7,477.73	7,508.96	7,477.73	23.25	23.68	-180.00	-529.00	-191.00	130.00	84.56	45.44	2.861		
7,600.00	7,577.73	7,608.96	7,577.73	23.56	23.99	-180.00	-529.00	-191.00	130.00	83.91	46.09	2.821		
7,700.00	7,677.73	7,708.96	7,677.73	23.88	24.30	-180.00	-529.00	-191.00	130.00	83.26	46.74	2.781		
7,800.00	7,777.73	7,808.96	7,777.73	• 24.20	24.62	-180.00	-529.00	-191.00	130.00	82.61	47.39	2.743		
7,900.00	7,877.73	7,908.96	7,877.73	24.52	24.93	-180.00	-529.00	-191.00	130.00	81.95	48.05	2.706		
8,000.00	7,977.73	8,008.96	7,977.73	24.85	25.25	-180.00	-529.00	-191.00	130.00	81.29	48.71	2.669		
8,100.00	8,077.73	8,108.96	8,077.73	25.17	. 25.56	-180.00	-529.00	-191.00	130.00	80.63	- 49.37	2.633		
8,200.00	8,177.73	8,208.96	8,177.73	25.49	25.88	-180.00	-529.00	-191.00	130.00	79.97	50.03	2.599		
0 200 00	8,277.73	8,308.96	8,277.73	25.82	26.20	-180.00	-529.00	-191.00	130.00	79.31	50.69	2.565	•	
8,300.00 8,400.00	8,277.73	8,308.96	8,277.73	26.14	26.20	-180.00	-529.00 -529.00	-191.00	130.00	79.31	51.34	2.565		
8,500.00	8,477.73		8,377.73	26.14	26.65			-191.00						
8,600.00	8,577.73	8,508.96 8,611.92	8,580.44	26.47	26.65	-180.00 177.62	-529.00 -527.95	-191.00	130.00 129.09	78.18 76.95	51.82 52.15	2.508 2.476		
8,691.02	8,668.76	8,702.45	8,668.75	26.95		168.94	-524.21	-166.51	129.09	75.05	52.15	2.476		
0,001.02	0,000.10	0,102.40	5,000.73	20.33	26.63	100.94	324.21	- 100.01	127.39		52.54	2.429		
8,700.00	8,677.73	8,710.99	8,676.91	26.96	26.63	167.79	-523.72	-164.01	127.61	75.02	52.59	2.427		
8,800.00	8,777.29	8,803.01	8,761.87	26.97	26.61	53.98	-517.00	-129.60	129.15	76.33	52.82	2.445		
8,900.00	8,873.95	- 8,890.28	8,836.30	26.98	26.59	41.56	-508.29	-85.03	132.06	80.06	51.99	2.540		
9,000.00	8,964.77	8,973.35	8,899.97	26.99	26.58	29.79	-498.08	-32.78	136.56	87.03	49.53	2.757		
9,100.00	9,047.00	9,051.21	8,952.18	27.02	26.58	19.31	-488.00	24.01	143.30	97.89	45.41	3.156		
	-									-				
9,200.00	9,118.16	9,127.42	8,995.51	27.08	26.60	11.29	-479.62	86.08	152.25	111.37	40.88	3.724		
9,300.00	9,176.42	9,203.46	9,030.32	27.18	26.65	6.25	-472.90	153.29	162.32	125.16	37.16	4.368		
9,400.00	9,220.09	9,279.62	9,056.12	27.41	26.84	2.80	-467.94	224.71	171.28	136.55	34.73	4.932		
9,500.00	9,247.84	9,355.93	9,072.42	27.89	27.27	0.78	-464.83	299.13	177.46	143.89	33.57	5.286		
9,600.00	9,258.83	9,432.34	9,078.89	28.59	27.83	0.01	-463.64	375.20	179.97	146.38	33.59	5.358		
9,700.00	9,259.00	9,528.85	9,079.00	29.46	28.70	0.00	-463.70	471.72	180.00	146.00	34.00	5.294		
9,800.00	9,259.00	9,628.85	9,079.00	30.49	29.75	0.00	-463.79	571.72	180.00	145.57	34.43	5.229		
9,900.00	9,259.00	9,728.85	9,079.00	31.65	30.93	0.00	-463.87	671.72	180.00	145.08	34.92	5.155		
10,000.00	9,259.00	9,828.85	9,079.00	32.94	32.23	0.00	-463.96	771.72	180.00	144.53	35.47	5.074		
10,100.00	9,259.00	9,928.85	9,079.00	34.33	33.65	0.00	-464.05	871.72	180.00	143.91	36.09	4.988		

Anticollision Report

Company: Project:

Matador Resources

Eddy County, NM

Reference Site:

Leatherneck Fed

Site Error: Reference Well: 0.00 usft

Well Error:

202H 0.00 usft

Reference Wellbore

Reference Design:

OH

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

Rig @ 3269.00usft (GL:3,240' + KB:29') Rig @ 3269.00usft (GL:3,240' + KB:29')

Grid

North Reference: Survey Calculation Method:

Output errors are at

Database:

Minimum Curvature

2.00 sigma WellPlanner1

Well 202H

Offset Datum

Reference	Design:		Plan A	11 · · · · · · · · · · · · · · · · · ·	** ** * **		Offset TV	VD Referen	ce:	į c	ffset Datur		nak Basas 22 amerikan	**1*
Offset De	-	7 - 2 - 10		- 132H - O		n Plan A					ار الاستان ال المستان الاستان الاستا		Offset Site Error:	0.00 us
Survey Prog				DGM, 8500-MV		+ *	*			·		100	Offset Well Error:	0.00 us
Refer Measured Depth (usft)	ence Verticat Depth (usft)	Offs Measured Depth (usft)	et Vertical Depth (usft)	Semi Major Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbor +N/-S (usft)	e Centre +E/-W (usft)	Dista Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	,
10,300.00	9,259.00	10,128.85	9,079.00	37.39	36.74	0.00	-464.22	1,071.72	180.00	142.51	37.49	4.802	K min my min	van ja saan Vaja sa
10,400.00	9,259.00	10,228.85	9,079.00	39.03	38.41	0.00	-464.31	1,171.72	180.00	141.74	38.26	4.704		
10,500.00	9,259.00	10,328.85	9,079.00	40.74	40.13	0.00	-464.40	1,271.72	180.00	140.91	39.09	4.605	• •	
10,600.00	9,259.00	10,428.85	9,079.00	42.50	41.91	0.00	-464.49	1,371.72	180.00	140.04	39.96	4.505		
10,700.00	9,259.00	10,528.85	9,079.00	44.32	43.74	0.00	-464.57	1,471.72	180.00	139.13	40.87	4.404		
10,800.00	9,259.00	10,628.85	9,079.00	46.18	45.62	0.00,	-464.66	1,571.72	180.00	. 138.18	41.82	4.304		
10,900.00	9,259.00	10,728,85	9,079.00	48.07	47.53	0.00	-464.75	1,671.72	180.00	137.20	42.80	4.205		
11,000.00	9,259.00	10,828.85	9,079.00	50.01	49.48	0.00	-464.83	1,771.72	180.00	136.18	43.82	4.107		
11.066.23	9.259.00	10.904.92	9.079.00	51.31	50.98	0.00	-464.89	1.837.95	180.00	135.43	44.57	4.039	* •	•

	(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	· (°)	(usft)	(usft)	(usft)	(usft)	(usft)	•				-
	10,300.00	9,259.00	10,128.85	9,079.00	37.39	36.74	0.00	-464.22	1,071.72	180.00	142.51	37.49	4.802	X		W _i	-
	10,400.00	9,259.00	10,228.85	9,079.00	39.03	38.41	. 0.00	-464.31	1,171.72	180.00	141.74	38.26	4.704			•	
	10,500.00	9,259.00	10,328.85	9,079.00	40.74	40.13	0.00	-464.40	1,271.72	180.00	140.91	39.09	4.605				-
	10,600.00	9,259.00	10,428.85	9,079.00	42.50	41.91	0.00	-464.49	1,371.72	180.00	140.04	39.96	4.505				
	10,700.00	9,259.00	10,528.85	9,079.00	44.32	43.74	0.00	-464.57	1,471.72	180.00	139.13	40.87	4.404				
	10,800.00	9,259.00	10,628.85	9,079.00	46.18	45.62	0.00	-464.66	1,571.72		. 138.18	41.82	4.304				.
	10,000.00	5,255.00	10,020.00	3,075,00	, 40.10	40.02	0.00,		, , , , , ,	. 100.00	. 100.10	41.02	14.004				
	10,900.00	9,259.00	10,728.85	9,079.00	48.07	47.53	0.00	-464.75	1,671.72	180.00	137.20	42.80	4.205				
	11,000.00	9,259.00	10,828.85	9,079.00	50.01	49.48	0.00	-464.83	1,771.72	180.00	136.18	43.82	4.107				
	11,066.23	9,259.00	10,904.92	9,079.00	51.31	50.98	0.00	-464.89	1,837.95	180.00	135.43	44.57	4.039	• •		•	
1	11,100.00	9,259.00	10,928.85	9.079.00	51.97	51.45	0.00	-464.92	1,871.72	180.00	135,12	44.88	4.011			•	
	11,200.00	9,259.00	11,028.85	9,079.00	53.96	53,46	0.00	-465.01	1,971.72	180.00	134.04	45.96	3.917				
	11,300.00	9,259.00	11,128.85	9,079.00	55.97	55.48	0.00	-465.10	2,071.72	180.00	132.93	47.07	3.824				
	11,400.00	9,259.00	11,228.85	9,079.00	58.01	57.53	0.00	-465.18	2,171.72	180.00	131.80	48.20	3.734				1
	11,500.00	9,259.00	11,328.85	9,079.00	60.06	59.60	0.00	-465.27	. 2,271.72	180.00	130.64	49.36	3.647			-	1
1	11,600.00	9,259.00	11,428.85	9,079.00	62.14	61.68	0.00	-465.36	2,371.72	180.00	129.46	50.54	3.562				1
	11,700.00	9,259.00	11,528.85	9,079.00	64.23	63.78	0.00	-465.45	2,471.72	180.00	128.26	51.74	3.479				- 1
																	1
1	11,800.00	9,259.00	11,628.85	9,079.00	66.33	65.89	0.00	-465.53	2,571.72	180.00	127.04	52.96	3.399				
	11,900.00	9,259.00	. 11,728.85	9,079.00	~ 68.45	68.02	0.00	-465.62	2,671.72	180.00	125.80	54.20	3.321				
	12,000.00	9,259.00	11,828.85	9,079.00	70.58	70.16	. 0.00	-465.71	2,771.72	180.00	124.54	55.46	3.246				-
	12,100.00	9,259.00	11,928.85	9,079.00	72.72	72.30	0.00	-465.79	2,871.72	180.00	123.27	56.73	3.173				
	12,200.00	9,259.00	12,028.85	9,079.00	- 74.87	74.46	0.00	-465.88	2,971.72	180.00	121.99	58.01	3.103				
	12,300.00	9,259.00	12,128.85	9,079.00	. 77.02	76.63	0.00	-465.97	3,071.72	180:00	120.69	59.31	3.035			:	
	12,400.00	9,259.00	12,228.85	9,079.00	×79.19	.78.80	0.00	-466.06	3,171.72	180.00	119.38	60.62	2.969				
	12,500.00	9,259.00	12,328.85	9,079.00	81.37	80.98	0.00	-466.14	3,271.72	180.00	118.05	61.95	2.906				- 1
	12,600.00	9,259.00	12,428.85	9,079.00	83.55	83.17	. 0.00	-466.23	3,371.72	180.00	116.72	63.28	2.844			-	-
	12,700.00 .	9,259.00	12,528.85	9,079.00	85.74	85.36	0.00	-466.32	3,471.72	180.00	115.37	• 64.63	2.785				
	12,800.00	9,259.00	12,628.85	9,079.00	87.93	87.56	0.00	-466.41	3,571.72	180.00	114.02	65.98	2.728				
	12,900.00	9,259.00	12,728.85	9,079.00	90.13	89.77	0.00	-466.49	3,671.72	180.00	112.65	67.35	2.673				
				9,079.00	92.34		0.00		3,771.71	180.00	111.28	68.72	2.619				
	13,000.00	9,259.00	12,828.85			91.98		-466.58				70.10	2.568				-
	13,100.00	9,259.00	12,928.85	9,079.00	94.55	94.19	0.00	-466.67	3,871.71	180.00	109.90						
	13,200.00	9,259.00	13,028.85	9,079.00	96.76	96.41	0.00	-466.75	3,971.71	180.00	108.51	71.49	2.518			- •	1
	13,300.00	9,259.00	13,128.85	9,079.00	. 98.98	98.64	0.00	-466.84	4,071.71	180.00	107.11	72.89	2.469				- 1
	13,400.00	9,259.00	13,228.85	9,079.00	101.20	100.86	0.00	-466.93	4,171.71	180.00	105,70	74.30	2.423			`	- 1
	13,500,00	9,259.00	13,328.85	9,079.00	103.43	103.10	0.00	-467.02	4,271,71	180.00	104.29	. 75.71	2.378				i
	13,600.00	9,259.00	13,428.85	9,079.00	105.66	105.33	0.00	-467.10	4,371.71	180.00	102.88	77.12	2.334				
	13,700.00	9,259.00	13,528.85	9,079.00	107.89	107.57	0.00	-467.19	4,471.71	180.00	101.46	. 78.54	2.292				١.
	,														•		İ
	13,800.00	9,259.00	13,628:85	9,079.00	110.13	109.81	0.00	-467.28	4,571.71	180.00	100.03	79.97	2.251				
	13,900.00	9,259.00	13,728.85	9,079.00	112.37	112.05	0.00	-467.37	4,671.71	180.00	98.59	81.41	2.211				1
	14,000.00	9,259.00	13,828.85	9,079.00	. 114.61	114.29	0.00	-467.45	4,771.71	180.00	97.16	82.84	2,173				
	14,066.29	9,259.00	13,904.86	9,079.00	116.10	116.00	0.00	-467.51	4,838.00	180.00	96.13	83.87	2.146				- [.
•	14,100.00	9,259.00	13,928.85	9,079.00	116.86	116.54	0.00	-467.54	4,871.71	180.00	95.71	84.29	2.136				ı
						*			•							•	-
	14,200.00	9,259.00	14,028.85	9,079.00	119.10	118.79	0.00	-467.63	4,971.71	180.00	94.27	85.73	2.100				
	14,300.00	9,259.00	14,128.85.	9,079.00	, 121.35	121.04	0.00	-467.71	5,071.71	180.00	92.82	87.18	2.065				
	14,400.00	9,259.00	14,228.85	9,079.00	123.60	123.30	0.00	-467.80	5,171.71	. 180.00	91.36	88.64	2.031				
	14,500.00	9,259.00	. 14,328.85	9,079.00	-` 125.86	125.55	0.00	-467.89	5,271,71	180.00	89.90	90.10	1.998				.
	14,600.00	9,259.00	14,428.85	9,079.00	128.11	127.81	0.00	-467.98	5,371.71	180.00	88.44	91.56	1.966				
	14,700.00	9,259.00	14,528.85	9,079.00	130.37	130.07	0.00	-468.06	5,471.71	180.00	86.97	93.03	1.935				
	14,800.00	9,259.00	14,628.85	9,079.00	132.63	132.33	0.00	-468.15	5,571.71	180.00	85.50	94.50	1.905				
	14,900.00	9,259.00	14,728.85	9,079.00	134.89	134.60	0.00	-468.24	5,671.71	180.00	84.03	95.97	1.876				
.	15,000.00	9,259.00	14,828.85	9,079.00	137.15	136.86	0.00	-468.32	5,771.71	180.00	82.55	97.45	1.847				
	15,100.00	9,259.00	14,928.85	9,079.00	139.41	139.13	0.00	-468.41	5,871.71	180.00	81.07	98.93	1.820	-			
-	45 000 00	0.050.00	** 4 E 000 0C	0.070.00	444.00	144.00	0.00	. 400.50	E 074 74	400.00	70.50	100.44	4 700				
Į	15,200.00	9,259.00	15,028.85	9,079.00	141.68	141.39	0.00	-468.50	5,971.71	180.00	79.59	100.41	1.793			<u> </u>	

Anticollision Report

Company:

Matador Resources

Project:

Eddy County, NM

Reference Site:

Leatherneck Fed

Site Error: Reference Well: 0.00 usft 202H

Well Error: Reference Wellbore 0.00 usft

Reference Wellbore Reference Design: OH

Prelim Plan A

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method:

Output errors are at Database:

Offset TVD Reference:

Well 202H

Rig @ 3269.00usft (GL:3,240' + KB:29')

Rig @ 3269.00usft (GL:3,240' + KB:29')

Grid

Minimum Curvature 2.00 sigma

WellPlanner1

Offset Des	-			- 132H - OI		n Plan A							Offset Site Error:	0.00 usft
Survey Progr Refere		WD+HDGM, 1 Offs		DGM, 8500-MW Serni Major					Dista	nice		*	Offset Well Error:	0.00 usft
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbor	e Centre	Between	Between	Minimum	Separation	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	. +N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor		
15,300.00	9,259.00	15,128.85	9,079.00	143.94	143.66	0.00	-468.59	6,071.71	180.00	78.11	101.89	1.767		
15,400.00	9,259.00	15,228.85	9,079.00	146.21	145.93	0.00	-468.67	6,171.71 -	180.00	76.62	103.38	1.741		
15,500.00	9,259.00	15,328.85	9,079.00	148.48	148.20	. 0.00	-468.76	6,271.71	180.00	75.13	104.87	1.716		
15,600.00	9,259.00	15,428.85	9,079.00	150.75	150.47	0.00	-468.85	6,371.71	180.00	73.64	106.36	1.692		
15,700.00	9,259.00	15,528.85	9,079.00	153.02	152.75	0.00	-468.94	6,471.71	180.00	72.15	107.85	1.669		
15,800.00 -	9,259.00	15,628.85	9,079.00	155.29	155.02	0.00	-469.02	6,571.71	180.00	70.65	109.35	1.646	•	
15,900.00	9,259.00	15,728.85	9,079.00	157.57	157.30	0.00	-469.11	6,671.71	180.00	69.15	110.85	1.624		
16,000.00	9,259.00	15,828.85	9,079.00	159.84	159.57	0.00	-469.20	6,771.71	180.00	67.65	112.35	1.602		
16,100.00	9,259.00	15,928.85	9,079.00	. 162.12	161.85	0.00	-469.28	6,871.71	180.00	66.15	113.85	1.581	•	
16,200.00	9,259.00	16,028.85	9,079.00	164.39	164,13	0.00	-469.37	6,971.71	180.00	64.65	115.35	1.560		
16,300.00	9,259.00	16,128.85	9,079.00	166.67	166.40	0.00	-469.46	7,071.71	180.00	63.14	116.86	1.540		
16,400.00	9,259.00	16,228.85	9,079.00	168.95	168.68	0.00	-469.55	7,171.71	180.00	61.64	118.36	1.521		
16,500.00	9,259.00	16,328.85	9,079.00	171.22	170.96	0.00	-469.63	7,271.71	180.00	60.13	119.87	1.502		
16,600.00	9,259.00	16,428.85	9,079.00	173.50	173.24	0.00	-469.72	7,371.71	180.00	58.62	121.38	1.483 Leve	13	
16,700.00	9,259.00	16,528.85	9,079.00	175.78	175.53	0.00	-469.81	7,471.71	180.00	57.11	122.89	1.465 Leve	13	
16,800.00	9,259.00	16,628.85	9,079.00	178.06	177.81	0.00	-469.90	7,571.71	180.00	55.59	124.41	1.447 Leve	13	
16,900.00	9,259.00	16,728.85	9,079.00	180.34	180.09	0.00	-469.98	7,671.71	180.00	54.08	125.92	1.429 Leve	13	
17,000.00	9,259.00	16,828.85	9,079.00	182.63	182.37	0.00	-470.07	7,771.71	180.00	52.56	127.44	1.412 Leve	13	
17,066.29	9,259.00	16,904.86	9,079.00	184.14	184.11	0.00	-470.13	7,838.00	180.00	51.48	128.52	1.401 Leve	13	
17,100.00	9,259.00	16,928.85	9,079.00	184.91	184.66	0.00	-470.16	7,871.71	180.00	51.05	128.95	1.396 Leve	13	
17,200.00	9,259.00	17,028.85	9,079.00	187.19	186.94	. 0.00	-470.24	7,971.71	180.00	49.53	130.47	1.380 Leve	13	
17,300.00	9,259.00	17,128.85	9,079.00	189.48	189.23	0.00	-470.33	8,071.71	180.00	48.01	131.99	1.364 Leve	13	
17,400.00	9,259.00	17,228.85	9,079.00	191.76	191.51	0.00	-470.42	8,171.71	180.00	46.49	133.51	1.348 Leve	13	
17,500.00	9,259.00	17,328.85	9,079.00	194.04	193.80	0.00	-470.51	8,271.71	180.00	44.97	135.03	1.333 Leve	13	
17,600.00	9,259.00	17,428.85	9,079.00	196.33	196.09	0.00	-470.59	8,371.71	180.00	; 43.44	136.56	1.318 Leve	13	
17,700.00	9,259.00	17,528.85	9,079.00	198.62	198.37	0.00	-470.68	8,471.71	180.00	41.92	138.08	1.304 Leve	13	
17,800.00	9,259.00	17,628.85	9,079.00	200.90	200.66	0.00	-470.77	8,571.71	180.00	40.40	139.60	1.289 Leve	13 .	
17,900.00	9,259.00	17,728.85	9,079.00	203.19	202.95	0.00	-470.86	8,671.71	180.00	38.87	141.13	1.275 Leve	13	
18,000.00	9,259.00	17,828.85	9,079.00	205.48	205.24	0.00	-470.94	8,771.71	180.00	37.34	142.66	1.262 Leve	13	
18,100.00	9,259.00	17,928.85	9.079.00	207.76	207.52	0.00	-471.03	8,871.71	180.00	35.82	144.18	1.248 Leve	12	
18,200.00	9,259.00	18,028.85	9,079.00	210.05	209.81	0.00	-471.12	8,971.71	180.00	34.29	145.71	1.235 Leve	12	
18,300.00	9,259.00	18,128.85	9,079.00	212.34	212.10	0.00	-471.20	9,071.71	180.00	32.76	147.24	1.222 Leve	12	
18,400.00	9,259.00	18,228.85	9,079.00	214.63	214.39	0.00	-471.29	9,171.71	180.00	31.23	148.77	1.210 Leve	12	
18,500.00	9,259.00	18,328.85	9,079.00	216.92	216.68	0.00	-471.38	9,271.71	180.00	29.70	150.30	1.198 Leve	12	
18,600.00	9,259.00	18,428.85	9,079.00	219.21	218.97	0.00	-471.47	9,371.71	180.00	28.16	151.84	1.185 Leve	12	
18,700.00	9,259.00	18,528.85	9,079.00	221.50	221.27	0.00	-471.55	9,471.71	180.00	26.63	153.37	1.174 Leve	12	
18,800.00	9,259.00	18,628.85	9,079.00	223.79	223.56	0.00	-471.64	9,571.71	180.00	25.10	154.90	1.162 Leve		
18,900.00	9,259.00	18,728.85	9,079.00	226.08	225.85	0.00	-471.73	9,671.71	180.00	23.56	156.44	1.151 Leve	12	
19,000.00	9,259.00	18,828.85	9,079.00	228.37	228.14	. 0.00	-471.82	9,771.71	180.00	22.03	157.97	1.139 Leve	12 .	
19,100.00	9,259.00	18,928.85	9,079.00	230.66	230.43	0.00	-471.90	9,871.71	180.00	20.49	159.51	1.128 Leve	12	
19,200.00	9,259.00	19,028.85	9,079.00	232.95	232.73	0.00	-471.99	9,971.71	180.00	18.96	161.04	1.118 Leve	12	*
19,211.29	9,259.00	19,040.14	9,079.00	233.21	232.98	0.00	-472.00	9,983.00	180.00	18.78	161.22	1.117 Leve	12, ES, SF	

Anticollision Report

Company:

Matador Resources

Project:

Eddy County, NM

Reference Site: Site Error:

Leatherneck Fed 0.00 usft

Reference Well:

202H

Well Error: Reference Wellbore

ОН

Reference Design:

0.00 usft

Prelim Plan A

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

Well 202H

Rig @ 3269.00usft (GL:3,240' + KB:29')

Rig @ 3269.00usft (GL:3,240' + KB:29')

North Reference:

Survey Calculation Method: Output errors are at

Minimum Curvature 2.00 sigma

Database:

WellPlanner1

Offset TVD Reference:

rvey Prog	ram: 0-M	WD+HDGM, 1	200-MWD+HI	DGM, 8600-MV	/D+HDGM						*	•	Offset Well Error:	0.00 u
Refer		Offs	et	Semi Major	Axis			•	Dista	nce			211001 11011 211011	
easured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore	e Centre +E/-W	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning	
usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
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		998.00	3.35		1.28								
,000.00	1,000.00	1,002.00	990.00	3.33	3.36	1.20	850.00	19.00	850.21	843.50	6.71	126.630		
,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	,	
,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		
,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		
,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		
,500.00	1,500.00	1,503.11	1,503.10	4.20	4.26	1.20	849.71	18.12	849.92		8.69	97.840		
,500.00	1,300.00	1,503.11	1,505.10	4.34	4.34	1.22	049.71	10.12	049.92	841.23	0.09	97.040		
600.00	1,600.00	1,608.25	1,608.20	4.43	4.43	1.04	848.81	15.41	849.02	840.15	8.87	95.768		
,700.00	1,699.99	1,713.28	1,713.12	4.54	4.56	155.18	847.32	10.87	848.31	839.22	9.09	93.274		
,719.71	1,719.70	1,733.96	1,733.78	4.57	4.58	155.10	846.95	9.76	848.29	839.15	9.15	92.723 CC,	-	
		· ·											ES	
,800.00	1,799.96	1,818.18	1,817.81	4.67	4.71	154.83	845.22	4.51	848.62	839.25	9.37	90.542		
,900.00	1,899.86	1,921.86	1,921.14	4.82	4.88	154.42	842.57	-3.51	849.97	840.27	9.70	87.632		
,000.00	1,999.68	2,021.66	2,020.57	5.00	5.07	154.03	839.85	-11.77	852.76	842.70	10.07	84.724		
,100.00	2.099.37	2,121.45	2,119.97	5.19	5.29	153.68	837.12	-20.03	857.15					•
	-									846.68	10.47	81.860		
2,200.00	2,198.90	2,221.19	2,219.33	5.41	5.52	153.39	834.40	-28.29	863.13	852.21	10.91	79.094		
,300.00	2,298.36	2,320.89	2,318.65	5.65	5.76	153.15	831.67	-36.54	869.90	858.51	11.39	76.402		
,400.00	2,397.81	2,420.60	2,417.98	5.90	6.02	152.91	828.95	-44.79	876.68	864.79	11.89	73.754		
2,500.00	2,497.26	2,520.30	2,517.31	6.17	6.29	152.68	826.23	-53.05	883.48	871.07	12.41	71.179		
2,600.00	2,596.71	2,620.00	2,616.63	6.45	6.58	152.45	823.51	-61.30	890.29	877.34	12.96	68.698		
2,700.00	2,696.16	2,719.71	2,715.96	6.74	6.87	152.22	820.78	-69.55	897.12	883.60	13.53	66.326		
,800.00	2,795.62	2,819.41	2,815.28	7.04	7.17	152.00	818.06	-77.80	903.96	889.86	14.11	64.068		
2,900.00	2,895.07	2,919.12	2,914.61	7.35	7.47	151.78	815.34	-86.05	910.82	896.11	14.71	61.927		
00.00	2,994.52	3,018.82	3,013.93	7.66	7.79	151.57	812.61	-94.31	917.69	902.37	15.32	59.903	**	
3,100.00	3,093.97	3,118.53	3,113.26	7.99	8.10	151.35	809.89	-102.56	924.57	908.63	15.94	57.993		
,200.00	3,193.43	3,218.23	3,212.58	8.31	8.43	151.14	807.17	-110.81	931.46	914.89	16.58	56.191		
,300.00	3,292.88	3,317.94	3,311.91	8.65	8.76	150.94	804.45	-119.06	938.37	921.15	17.22	54.494		
,400.00	3,392.33	3,417.64	3,411.23	8.98	9.09	150.73	801.72	-127.32	945.29	927.41	17.87	52.895		
,500.00	3,491.78	3,517.35	3,510.56	9.33	9.42	150.53	799.00	-135.57	952.22	933.69	18.53	51.388		
,600.00	3,591.23	3,617.05	3,609.88	9.67	9.76	150.34	796.28	-143.82	959.16	939.96	19.20	49.968		
,700.00	3,690.69	3,716.76	3,709.21	- 10.02	10.10	150.14	793.55	-152.07	966.11	946.24	19.87	48.629		
,800.00	3,790.14	3,816.46	3,808.54	10.37	10.45	149.95	790.83	-160.32	973.07	952.53	20.54	47.366		
,900.00	3,889.59	3,913.13	3,904.86	10.72	10.78	149.79	788.29	-168.02	980.13	958.91	21.21	46.205		
000 00	0.000.00	4 007 40	2 000 05	44.00	44.45	440.75	700 47	170	007.70	000.01	04.6-	is 400		
,000.00		4,007.10	3,998.65	11.08	11.10	149.75	786.47	-173.54	987.70	965.84	21.87	45.168		
100.00	4,088.50	4,100.96	4,092.44	11.44	11.41	149.83	785.38	-176.86	995.87	973.35	22.52	44.229		
,200.00	4,187.95	4,194.60	4,186.07	11.80	11.71	150.05	785.00	-178.00	1,004.62	981.47	23.15	43.399		
,300.00	4,287.40		4,285.40	12.16	12.05	150.34	785.00	-178.00	1,013.70	989.87	23.83	42.537		
,400.00	4,386.85	4,406.62	4,384.85	12.52	12.36	150.63	785.00	-178.00	1,022.81	998.33	24.48	41.775		
,500.00	4,486.30	4,507.17	4,484.30	12.89	12.67	150.92	785.00	-178.00	1,031.94	1,006.80	25.14	41.046		
,600.00	4,585.76	4,607.72	4,583.76	13.25	12.98	151.20	785.00	-178.00	1,041.10	1,015.30	25.80	40.350		
,700.00	4,685.21	4,708.26	4,683.21	13.62	13.30	151,47	785.00	-178.00	1,050.29	1,023.82	26.47	39.685		
,800.00	4,784.66	4,808.81	4,782.66	13.99	13.62	151.74	785.00	-178.00	1,059.49	1,032.36	27.13	39.048		
900.00	4,884.11	4,909.36	4,882.11	14.36	13.94	152.01	785.00	-178.00	1,068.72	1,040.92	27.80	38.439		
		,	'			-			,			==		
00.00	4,983.57	5,009.91	4,981.57	14.73	14.27	152.27	785.00	-178.00	1,077.97	1,049.50	28.48	37.856		

Anticollision Report

.Company:

Matador Resources

Project:

Eddy County, NM

Reference Site:

Leatherneck Fed

Site Error: Reference Well: 0.00 usft

Well Error:

202H

0.00 usft

Reference Wellbore

ЮН

Reference Design: Prelim Plan A Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference: **Survey Calculation Method:**

Output errors are at-

Database:

Well 202H

Rig @ 3269.00usft (GL:3,240' + KB:29')

Rig @ 3269.00usft (GL:3,240' + KB:29')

Grid

Minimum Curvature

2.00 sigma

WellPlanner1

Offset TVD Reference:

	rame O.L.	MUTHLUM 1												
Survey Progr Refere		WD+HDGM, 1; Offs:		DGM, 8600-MW Semi Major		1	•		Dista				Offset Well Error:	. 0.00 usf
Measured	ence Vertical	Measured	et Vertical	Reference	Offset	Highside	Offset Wellbor	e Centre	Between	Between	Minimum	Separation	Manual	
Depth	Depth (usft)	Depth (usft)	Depth			Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation	Factor	Warning	
(usft)			(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
5,100.00	5,083.02	5,089.55	5,081.02	15.10	14.52	152.52	785.00	-178.00	1,087.25	1,058.17	29.08	37.384		
5,200.00	5,182.47	5,189.00	5,180.47	15.48	14.85	152.77	785.00	-178.00	1,096.54	1,066.79	29.76	36.850		•
5,300.00	5,281.92	5,288.45	5,279.92	15.85	15.17	153.02	785.00	-178.00	1,105.86	1,075.43	30.43	36.337	;	
5,400.00	5,381.37	5,387.90	5,379.37	16.22	15.50	153.26	785.00	-178.00	1,115.20	1,084.08	31.11	35.846		
5,500.00	5,480.83	5,487.35	5,478.83	16.60	15.82	153.50	785.00	-178.00	1,124.55	1,092.76	31.79	35.373		
5,600.00	5,580.28	5,586.81	5,578.28	16.97	16.15	153.74	785.00	-178.00	1,133.93	1,101.45	32.47	34.919		
5,700.00	5,679.73	5,686.26	5,677.73	17.35	16.48	153.97	785.00	-178.00	1,143.32	1,110.16	33.16	34.483		
5,800.00	5,779.18	5,785.71	5,777.18	17.73	16.81	154.20	785.00	-178.00	1,152.73	1,118.89	33.84	34.063		
5,900.00	5,878.64	5,885.16	5,876.64	18.10	17.14	154.42	785.00	-178.00	1,162.16	1,127.63	34.53	33.659		
6,000.00	5,978.15	5,984.68	5,976.15	18.48	17.48	154.67	785.00	-178.00	1,171.05	1,135.84	35.21	33.255		
6,100.00	6,077.87	6,084.40	6,075.87	18.84	17.81	154.86	785.00	-178.00	1,177.72	1,141.82	35.90	32.806		
6,200.00	6,177.76	6,184.29	6,175.76	19.19	18.15	154.99	785.00	-178.00	1,182.02	1,145.44	36.58	32.311		
6,300.00	6,177.76	6,184.29	6,275.73	19.19	18.49	155.05	785.00	-178.00	1,182.02		35.58	31.772		
6,400.00	6,377.73	6,384.26	6,375.73	19.84	18.82	0.63	785.00	-178.00	1,184.07	1,146.15	37.20	31.772		
6,500.00	6,477.73	6,484.26	6,475.73	20.14	19.16	0.63	785.00	-178.00	1,184.07	1,145.50	38.57	30.697		
6,600.00	6,577.73	6,584.26	6,575.73	20.44	19.50	0.63	785.00	-178.00	1,184.07	1,144.84	39.23	30.185	•	
									,	.,		-31.00		
6,700.00	6,677.73	6,684.26	6,675.73	20.75	19.84	0.63	. 785.00	-178.00	1,184.07	1,144.19	39.89	29.687		
6,800.00	6,777.73	6,784.26	6,775.73	21.06	20.18	0.63	785.00	-178.00	1,184.07	1,143.53	40.54	29.204		
6,900.00	6,877.73	6,884.26	6,875.73	21.36	20.52	0.63	785.00	-178.00	1,184.07	1,142.87	41.21	28.735	٠.	
7,000.00	6,977.73	6,984.26	6,975.73	21.67	20.87	0.63	785.00	-178.00	1,184.07	1,142.20	41.87	28.280		
7,100.00	7,077.73	7,084.26	7,075.73	21.99	21.21	0.63	785.00	-178.00	1,184.07	1,141.54	42.53	27.838		
7,200.00	7,177.73	7,184.26	7,175.73	. 22.30	21.55	. 0.63	785.00	-178,00	1,184.07	1,140,87	43.20	27.408		
7,300.00	7,277.73	7,284.26	7,275.73	22.61	21.89	0.63	785.00	-178.00	1,184.07	1,140.20	43.87	26.991		
7,400.00	7,377.73	7,384.26	7,375.73	22.93	22.24	0.63	785.00	-178.00	1,184.07	1,139.53	44.54	26.585		
7,500.00	7,477.73	7,484.26	7,475.73	23.25	22.58	0.63	785.00	-178.00	1,184.07	1,138.86	45.21	26.190		
7,600.00	7,577.73	7,584.26	7,575.73	23.56	22.93	0.63	785.00	-178.00	1,184.07	1,138.19	45.88	25.807		
7,700.00	7,677.73	7,684.26	7,675.73	23.88	23.27	0.63	785.00	-178.00	1,184.07	1,137.51	AC FC	25.433		
7,700.00	7,577.73	7,584.26	7,675.73	23.88	23.27	0.63 0.63	785.00 785.00	-178.00 -178.00	1,184.07	1,136.84	46.56	25.433 25.070		
7,800.00	7,877.73	7,784.26	7,875.73	24.20	23.62	0.63	785.00 785.00	-178.00	1,184.07	1,136.84	47.23 47.91	25.070 24.716	•	
8,000.00	7,977.73	7,984.26	7,975.73	24.85	23.96	0.63	785.00	-178.00	1,184.07	1,135.49	48.59	24.716		
8,100.00	8,077.73	8,084.26	8,075.73	25.17	24.66	0.63	785.00	-178.00	1,184.07	1,133.49	49.26	24.035		
											•			
8,200.00	8,177.73	8,184.26	8,175.73	25.49	25.00	0.63	785.00	-178.00	1,184.07	1,134.13	49.94	23.708		
8,300.00	8,277.73	8,284.26	8,275.73	25.82	25.35	0.63	785.00	-178.00	1,184.07	1,133.45	50.62	23.389		
8,400.00	8,377.73	8,384.26	8,375.73	26.14	25.70	0.63	785.00	-178.00	1,184.07	1,132.77	51.31	23.079		
8,500.00	8,477.73	8,484.26	8,475.73	26.47	26.05	0.63	785.00	-178.00	1,184.07	1,132.08	51.99	22.776		
8,600.00	8,577.73	8,584.26	8,575.73	26.80	26.25	0.63	785.00	-178.00	1,184.07	1,131.55	52.53	22.543		
8,700.00	8,677.73	8,684.26	8,675.73	. 26.96	26.28	0.63	785.00	-178.00	1,184.07	1,131.35	52.73	22.457		
8,800.00	8,777.29	8,756.86	8,748.15	26.97	26.28	-99.96	785.78	-173.64	1,186.62	1,133.93	52.69	22.520		
8,900.00	8,873.95	-8,829.05	8,819.03	26.98	26.28	99.41	788.13	-160.40	1,194,49	1,141.87	52.63	22.697		
9,000.00	8,964.77	8,900.00	8,886.50	26.99	26.27	-98.51	791.94	-138.95	1,207.50	1,154.94	52.56	22.973		
9,100.00	9,047.00	8,973.26	8,952.80	27.02	26.26	-97.29	797.37	-108.37	1,225.29	1,172.75	52.54	23.321		
0 200 00	9,118.16	0.045.50	0.013.77	- 27.00	26.26	-04.02	904.14	-70.30	1 247 00	1 104 40	E2 64	22 707		
9,200.00		9,045.50	9,013.77	27.08	26.26	-94.93 -91.93	804.14 812.31	-70.32 -24.31	1,247.09	1,194.49	52.61	23.707		
9,300.00 9,400.00	9,176.42 9,220.09	9,118.78	9,070.16	27.18	26.30 26.38	-91.92 -89.93	812.31 822.82	-24.31 35.03	1,269.10	1,216.28	52.82 53.26	24.027		
9,500.00	9,220.09	9,200.73 9,363.73	9,125.58 9,208.42	27.41 27.89	26.38 26.82	-89.93 -89.66	822.82	35.03 173.69	1,289.96 1,305.83	1,236.69 1,251.48	53.26 54.35	24.219 24.027		
9,600.00	9,247.64	9,544.06	9,208.42	28.59	27.85	-89.81	849.19	347.76	1,313.00	1,256.82	56.18	23.373		
0,000.00	5,250.00	5,544.00	. 3,231.07	20.03	21.03	-03.01	043.13	541.70	1,010.00	1,230.02		23.313		
9,700.00	9,259.00	9,668.31	9,254.00	29.46	28.91	-89.87	849.66	471.95	1,313.36	1,255.23	58.14	22.591		
9,800.00	9,259.00	9,768.31	9,254.00	30.49	29.92	-89.87	849.64	571.95	1,313.43	1,253.25	60.18	21.824		
9,900.00	9,259.00	9,868.31	9,254.00	31.65	31.07	-89.87	849.62	671.95	1,313.50	1,251.00	62.51	21.014		
10,000.00	9,259.00	9,968.31	9,254.00	32.94	32.34	-89.87	849.61	771.95	1,313.57	1,248.50	65.07	20.186		
10,100.00	9,259.00	10,068.31	9,254.00	34.33	33.72	-89.87	849.59	871.95	1,313.64	1,245.79	67.86	19.359		

Anticollision Report

Company:

Matador Resources

Project:

Eddy County, NM

Reference Site: Site Error:

Leatherneck Fed

Reference Well:

0.00 usft 202H

Well Error:

0.00 usft

Reference Wellbore

ОН

Reference Design: Prelim Plan A Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method:

Output errors are at

Database:

Offset TVD Reference:

Well 202H

Rig @ 3269.00usft (GL:3,240' + KB:29')

Rig @ 3269.00usft (GL:3,240' + KB:29')

Grid

Minimum Curvature 2.00 sigma

WellPlanner1

vey Prog	esign eram: 0-M	Leather		DGM, 8600-MV	ND+HDGM		•						06	0.00
-	ram: U-M rence	WD+HDGM, 1. Offs		Semi Major					Dista	ance			Offset Well Error:	0.00
asured	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbo	ro Contro	Between	Between	Minimum	Separation	W	
Depth	Depth	Depth	Depth	Kelerence	Onset	Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation	Factor	Warning	
usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
300.00	9,259.00	10,268.31	9,254.00	37.39	36.77	-89.87	849.55	1,071.95	1,313.78	1,239.81	73,97	17.760		
,400.00	9,259.00	10,368.31	9,254.00	39.03	38.41	-89.87	849.54	1,171.95	1,313.85	1,236.59	77.27	17.004		
,500.00	9,259.00	10,468.31	9,254.00	40.74	40.11	-89.87	849.52	1,271.95	1,313.92	1,233.23	80.69	16.284		
,600.00	9,259.00	10,568.31	9,254.00	42.50	41.88	-89.87	849.50	1,371.95	1,313.99	1,229.77	84.22	15.601		
,700.00	9,259.00	10,668.31	9,254.00	44.32	43.69	-89.87	849.48	1,471.95	1,314.06	1,226.20	87.86	14.957		
00.008,0	9,259.00	10,768.31	9,254.00	46.18	45.55	-89.87	849.47	1,571.95	1,314.13	1,222.55	91.58	14.349		
,900.00	9,259.00	10,868.31	9,254.00	48.07	47.45	-89.87	849.45	1,671.95	1,314.20	1,218.82	95.38	13.778		
,000.00		10,968.31	9,254.00	50.01	49.38	-89.87	849.43	1,771.95	1,314.27	1,215.02	99.25	13.242		
1,100.00		11,068.31	9,254.00	51.97	51.35	-89.87	849.42	1,871.95	1,314.34	1,211.15	103.19	12.738		
,200.00		11,168.31	9,254.00	53.96	53.34	-89.87	849.40	1,971.95	1,314.41	1,207.24	107.17	12.265		
,300.00		11,268.31	9,254.00	55.97	55.36	-89.87	849.38	2,071.95	1,314.48	1,203.27	111.21	11.820		
	-,	,	-,					_,		,				
,400.00	9,259.00	11,368.31	9,254.00	58.01	57.39	-89.87	849.36	2,171.94	1,314.55	1,199.26	115.28	11.403		
,500.00		11,468.31	9,254.00	60.06	59.45	-89.87	849.35	2,271.94	1,314.62	1,195.22	119.40	11.010		
,600.00		11,568.31	9,254.00	62.14	61.53	-89.87	849.33	2,371.94	1,314.69	1,191.13	123.55	10.641		
,700.00		11,668.31	9,254.00	64.23	63.62	-89.87	849,31	2,471.94	1,314.76	1,187.02	127,74	10.293		
,800.00	9,259.00	11,768.31	9,254.00	66.33	65.73	-89.87	849.29	2,571.94	1,314.83	1,182.88	131.95	9.964		
,900.00	9,259.00	11,868.31	9,254.00	68.45	67.84	-89.87	849.28	2,671.94	1,314.90	1,178.71	136.19	9.655		
2,000.00	9,259.00	11,968.31	9,254.00	70.58	69.98	-89.87	849.26	2,771.94	1,314.97	1,174.52	140.45	9.362		
2,100.00		12,068.31	9,254.00	72.72	72.12	-89.87	849.24	2,871.94	1,315.04	1,170.30	144.74	9.086		
,200.00		12,168.31	9,254.00	74.87	74.27	-89.87	849.22	2,971.94	1,315.11	1,166.07	149.04	8.824		
300.00	9,259.00	12,268.31	9,254.00	77.02	76.43	-89.87	849.21	3,071.94	1,315.18	1,161.81	153.36	8.576		
	.,							.,.	,	,				
,400.00	9,259.00	12,368.31	9,254.00	79.19	78.60	-89.87	849.19	3,171.94	. 1,315.25	1,157.55	157.70	8.340		
2,500.00	9,259.00	12,468.31	9,254.00	81.37	80.78	-89.87	849.17	3,271.94	1,315.32	1,153.26	162.06	8.116		
,600.00	9,259.00	12,568.31	9,254.00	83.55	82.96	-89.87	849.15	3,371.94	1,315.39	1,148.96	166.42	7.904	•	
2,700.00	9,259.00	12,668.31	9,254.00	85.74	85.15	-89.87	849.14	3,471.94	1,315.46	1,144.65	170.80	7.702		
2,800.00	9,259.00	12,768.31	9,254.00	87.93	87.35	-89.87	849.12	3,571.94	1,315.53	1,140.33	175.20	7.509		
2,900.00	9,259.00	12,868.31	9,254.00	90.13	89.55	-89.87	849.10	3,671.94	1,315.60	1,136.00	179.60	7.325		
3,000.00		12,968.31	9,254.00	92.34	91.75	-89.87	849.08	3,771.94	1,315.67	1,131.65	184.02	7.150		
3,100.00		13,068.31	9,254.00	94.55	93.97	-89.87	849.07	3,871.94	1,315.74	1,127.30	188.44	6.982		
3,200.00		13,168.31	9,254.00	96.76	96.18	-89.87	849.05	3,971.94	1,315.81	1,122.93	192.87	6.822		
,300.00		13,268.31	9,254.00	98.98	98.40	-89.87	849.03	4,071.94	1,315.88	1,118.56	197.31	6.669		
,,000.00	0,200.00	10,200.01	0,2000	00.00	00.10	00.01	0.0.00	1,071101	1,010.00	1,110.00	107.01	0.000		
,400.00		13,368.31	9,254.00	101.20	100.63	-89.87	849.01	4,171.94	1,315.95	1,114.18	201.76	6.522		
3,500.00		13,468.31	9,254.00	103.43	102.86	-89.87	849.00	4,271.94	1,316.02	. 1,109.80	206.22	6.382		
,600.00		13,568.31	9,254.00	105.66	105.09	-89.87	848.98	4,371.94	1,316.09	1,105.40	210.68	6.247		
,700.00		13,668.31	9,254.00	107.89	107.32	-89.87	848.96	4,471.94	1,316.16	1,101.01	215.15	6.117		
00.008,	9,259.00	13,768.31	9,254.00	110.13	109.56	-89.87	848.94	4,571.94	1,316.23	1,096.60	219.63	5.993		
,900.00	9,259.00	13,868.31	9,254.00	112.37	111.80	-89.87	848.93	4,671.94	1,316.29	1,092.19	224.11	5.874		
,000.00	9,259.00	13,968.31	9,254.00	114.61	114.04	-89.87	848.91	4,771.94	1,316.36	1,087.77	228.59	5.759		
100.00	9,259.00	14,068.31	9,254.00	116.86	116.29	-89.87	848.89	4,871.94	1,316.43	1,083.35	233.08	5.648		
,200.00	9,259.00	14,168.31	9,254.00	119.10	118.54	-89.87	848.87	4,971.94	1,316.50	1,078.92	237.58	5.541		
,300.00		14,268.31	9,254.00	121.35	120.79	-89.87	848.86	5,071.94	1,316.57	1,074.49	242.08	5.439		
								4						
,400.00		14,368.31	9,254.00	123.60	123.04	-89.87	848.84	5,171.94	1,316.64	1,070.06	246.59	5.340		
,500.00		14,468.31	9,254.00	125.86	125.29	-89.87	-848.82	5,271.94	1,316.71	1,065.62	251.09	5.244		
,600.00	9,259.00	14,568.31	9,254.00	128.11	127.55	-89.87	848.80	5,371.94	1,316.78	1,061.18	255.61	5.152		
,700.00	-	14,668.31	9,254.00	130.37	129.81	-89.87	848.79	5,471.94	1,316.85	1,056.73	260.12	5.062		
,800.00	9,259.00	14,768.31	9,254.00	132.63	132.07	-89.87	848.77	5,571.94	1,316.92	1,052.28	264.64	4.976		
1,900.00	9,259.00	14,868.31	9,254.00	134.89	134.33	-89.87	848.75	5,671.94	1,316.99	1,047.83	.269.16	4.893		
,000.00	9,259.00	14,968.31	9,254.00	137.15	136.59	-89.87	848.73	5,771.94	1,317.06	1,047.83	273.69	4.893		
,100.00		15,068.31	9,254.00	139.41	138.86	-89.87	848.72	5,871.94	1,317.00	1,038.91	278.22	4.734		
5,100.00 5,200.00		15,168.31	9,254.00	141.68	141.12	-89.87	848.70	5,971.94	1,317.13	1,034.45		4.659		
5,300.00	9,259.00	15,268.31	9,254.00	143.94	141.12	-89.87	848.68	6,071.94	1,317.20	1,029.99	287.28	4.585		
.,500.00	5,200.00	.0,200.01	3,234.00	140.04		JJ.01	0-10.00	0,011.04	.,017.27	.,525.55	201.20	4.000		
,400.00	9,259.00	15,368.31	9,254.00	146.21	145.66	-89.87	848.66	6,171.94	1,317.34	1,025.52	291.82	4.514		

Anticollision Report

Company: Project:

Matador Resources

Eddy County, NM

Reference Site: Site Error:

Leatherneck Fed 0.00 usft

Reference Well:

Offset Design

202H

Well Error: Reference Wellbore 0.00 usft ОН

Reference Design:

Prelim Plan A

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference: **Survey Calculation Method:**

Output errors are at

Database:

Offset TVD Reference:

Well 202H

Rig @ 3269.00usft (GL:3,240' + KB:29')

Rig @ 3269.00usft (GL:3,240' + KB:29')

Offset Site Error:

0.00 usft

Grid

Minimum Curvature 2.00 sigma

WellPlanner1

a preparet da .	728 - 277 A.W.		er de di		******	**	****	
Leatherneck Fed)H - Prelim Pl		• • • • • • • • • • • • • • • • • • • •				

Survey Prog	ram: 0-M	-MWD+HDGM, 1200-MWD+HDGM, 8600-MWD+HDGM						Offset Well Error:	0.00 usft					
Refer	rence	Offs	et .	Semi Major	Axis									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbord +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
15,500.00	9,259.00	15,468.31	9,254.00	148.48	147.93	-89.87	848.65	6,271.94	1,317.41	1,021.05	296.36	4.445		-
15,600.00		15,568.31	9,254.00	150.75	150.20	-89.87	848.63	6,371.94	1,317.41	1,016.58	300.90	4.378		
15,700.00		15,668.31	9,254.00	153.02	152.47	-89.87	848.61	6,471.94	1,317.55	1,010.38	305.44	4.314		
15,800.00		15,768.31	9,254.00	155.29	154.74	-89.87	848.59	6,571.94	1,317.62	1,007.63	309.99	4.251		
15,900.00		15,868.31	9,254.00	157.57	157.02	-89.87	848.58	6,671.94	1,317.69	1,007.05	314.54	4.189		
16,000.00		15,968.31	9,254.00	159.84	159.29	-89.87	848.56	6,771.94	1,317.76	998.67	319.09	4.130		
16,100.00	9,259.00	16,068.31	9,254.00	162.12	161.57	-89.87	848.54	6,871.94	1,317.83	994.19	323.64	4.072		
16,200.00	9,259.00	16,168.31	9,254.00	164.39	163.84	-89.87	848.53	6.971.94	1,317.90	989.71	328.19	4.016		
16,300.00	9,259.00	16,268.31	9,254.00	166.67	166.12	-89.87	848.51	7,071.94	1,317.97	985.23	332.75	3.961		
16,400.00	9,259.00	16,368.31	9,254.00	168.95	168.40	-89.87	848.49	7,171.94	1,318.04	980.74	337.30	3.908		
16,500.00	9,259.00	16,468.31	9,254.00	171.22	170.68	-89.87	848.47	7,271.94	1,318.11	976.25	341.86	3.856		
16,600.00	9,259.00	16,568.31	9,254.00	173.50	172.96	-89.87	848.46	7,371,94	1,318.18	971.76	346.42	3.805		
16,700.00	9,259.00	16,668.31	9,254.00	175.78	175.24	-89.87	848.44	7,471.94	1,318.25	967.27	350.98	3.756	ij.	
16,800.00		16,768.31	9,254.00	178.06	. 177.52	-89.87	848.42	7,571.94	1,318.32	962.78	355.54	3.708		
16,900.00		16,868.31	9,254.00	180.34	179.80	-89.87	848,40	7,671.94	1,318.39	958.28	360.11	3.661		
17,000.00	9,259.00	16,968.31	9,254.00	182.63	182.08	-89.87	848.39	7,771.94	1,318.46	953.79	364.67	3.615		
17,100.00	9,259.00	17,068.31	9,254.00	184.91	184.37	-89.87	848.37	7,871.94	1,318.53	949.29	369.24	3.571		
17,200.00	9,259.00	17,168.31	9,254.00	187.19	186.65	-89.87	848.35	7,971.94	1,318.60	944.80	373.80	3.528		
17,300.00	9,259.00	17,268.31	9,254.00	189.48	. 188.93	-89.87	848.33	8,071.94	1,318.67	940.30	378.37	3.485		
17,400.00	9,259.00	17,368.31	9,254.00	191.76	191.22	-89.87	848.32	8,171.94	1,318.74	935.80	382.94	3.444		
17,500.00	9,259.00	17,468.31	9,254.00	194.04	193.50	-89.87	848.30	8,271.94	1,318.81	931.30	387.51	3.403		
17,600.00	9,259.00	17,568.31	9,254.00	196.33	195.79	-89.87	848.28	8,371.94	1,318.88	926.79	392.08	3.364		
17,700.00	9,259.00	17,668.31	9,254.00	198.62	198.08	-89.87	848.26	8,471.94	1,318.95	922.29	396.66	3.325		
17,800.00	9,259.00	17,768.31	9,254.00	200.90	200.36	-89.87	848.25	8,571.94	1,319.02	917.79	401.23	3.287		
17,900.00	9,259.00	17,868.31	9,254.00	203.19	202.65	-89.87	848.23	8,671.94	1,319.09	913.28	405.80	3.251		
18,000.00	9,259.00	17,968.31	9,254.00	205.48	204.94	-89.87	848.21	8,771.94	1,319.16	908.78	410.38	3.214		
18,100.00	9,259.00	18,068.31	9,254.00	207.76	207.23	-89.87	848.19	8,871.94	1,319.23	904.27	414.96	3.179		
18,200.00	9,259.00	18,168.31	9,254.00	210.05	209.51	-89.87	848.18	8,971.94	1,319.30	899.76	419.53	3.145		
18,300.00	9,259.00	18,268.31	9,254.00	212.34	211.80	-89.87	848.16	9,071.94	1,319.37	895.26	424.11	3.111		
18,400.00	9,259.00	18,368.31	9,254.00	214.63	214.09	-89.87	848.14	9,171.94	1,319.44	890.75	428.69	3.078		
18,500.00	9,259.00	18,468.31	9,254.00	216.92	216.38	-89.87	848.12	9,271.94	1,319.51	886.24	433.27	3.045		
18,600.00	9,259.00	18,568.31	9,254.00	219.21	218.67	-89.87	848.11	9,371.94	1,319.58	881.73	437.85	3.014	•	
18,700.00	9,259.00	18,668.31	9,254.00	221.50	220.96	-89.87	848.09	9,471.94	1,319.65	877.22	442.43	2.983		
18,800.00	9,259.00	18,768.31	9,254.00	223.79	223.25	-89.87	848.07	9,571.94	1,319.72	872.71	. 447.01	2.952		
18,900.00	9,259.00	18,868.31	9,254.00	226.08	225.54	-89.87	848.05	9,671.94	1,319.79	868.19	451.59	2.923		
19,000.00	9,259.00	18,968.31	9,254.00	228.37	227.84	-89.87	848.04	9,771.94	1,319.86	863.68	456.18	2.893		
19,100.00	9,259.00	19,068.31	9,254.00	230.66	230.13	-89.87	848.02	9,871.94	1,319.93	859.17	460.76	2.865		
19,200.00	9,259.00	19,168.31	9,254.00	232.95	232.42	-89.87	848.00	9,971.94	1,320.00	854.65	465.34	2.837		
19,211.29	9,259.00	19,179.60	9,254.00	233.21	232.68	-89.87	848.00	9,983.23	1,320.00	854.14	465.86	2.833 SI	: .	

Anticollision Report

Company: Project:

Matador Resources

Reference Site:

Eddy County, NM

Site Error:

Leatherneck Fed 0.00 usft

Reference Well: Well Error:

202H 0.00 usft

Reference Wellbore

Reference Design: Prelim Plan A

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

Well 202H

Rig @ 3269.00usft (GL:3,240' + KB:29') Rig @ 3269.00usft (GL:3,240' + KB:29')

.

North Reference:

Survey Calculation Method:

Output errors are at

2.00 sigma

Minimum Curvature

Database:

WellPlanner1

Offset TVD Reference:

rvey Prog	ram: '0-M'	WD+HDGM, 1:	200-MWD+H	DGM, 8800-MV	VD+HDGM								Offset Well Error:	0.00 us
Refe		Offs		Semi Major					Dista	ance			En En en	5.50 us
asured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore	Centre +E/-W	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			: .**
0.00	0.00	2.00	-2.00	0.00	0.00	1.33	820.00	19.00	820.22					manuscript of the
100.00	100.00	102.00	98.00	0.13	0.13	1.33	820.00	19.00	820.22	819.96	. 0.26	3 134 385	•	
200.00	200.00	202.00	198.00	0.49	0.49	1.33	820.00	19.00	820.22	819.24	0.98	838.133		
300.00	300.00	302.00	298.00	0.84	0.85	1.33	820.00	19.00	820.22	818.52	1.70	483.743		
400.00	400.00	402.00	398.00	1.20	1.21	1.33	820.00	19.00	820.22		2.41	339.986	•	
500.00	500.00	502.00	498.00	1.56	1.57	1.33	820.00	19.00	820.22		3.13	262.097		
									******				,	
600.00	600.00	602.00	598.00	1.92	1.93	1.33	820.00	19.00	820.22	816.37	3.85	213.244		
700.00	700.00	702.00	698.00	2.28	. 2.29	1.33	820.00	19.00	820.22	815.66	4.56	179.741		
800.00	800.00	802.00	798.00	2.64	2.64	1.33	820.00	19.00	820.22	814.94	5.28	155.336		
900.00	900.00	902.00	898.00	3.00	3.00	1.33	820.00	19.00	820.22	814.22	6.00	136.767		
1,000.00	1,000.00	1,002.00	998.00	3.35	3.36	1.33	820.00	19.00	820.22		6.71	122,163		
													•	
1,100.00	1,100.00	1,102.00	1,098.00	. 3.71	3.72	1.33	820.00	19.00	820.22	812.79	7.43	110.376		
1,200.00	1,200.00	1,202.00	1,198.00	4.07	4.07	1.33	820.00	19.00	820.22	812.08	8,14	100.708		
1,300.00	1,300.00	1,302.00	1,298.00	4.25	4.25	1.33	820.00	19.00	820.22	811.71	8.51	96.411	# *	
1,400.00	1,400.00	1,398.00	1,398.00	4.28	4.28	1.33	820.00	19.00	820.22	811.65	8.57	95.747		
1,500.00	1,500.00	1,508.21	1,508.20	4.34	4.35	1.27	819.34	18.22	819.61	810.92	8.69	94.314		
1,600.00	1,600.00	1,618.54	1,618.49	4.43	4.44	1.11	817.32	15.81	817.73	808.86	8.87	92.153		
1,700.00	1,699.99	1,728.76	1,728.58	4.54	4.57	155.29	813.95	11.77	815.40	-806.29	9.11	89.510		
1,800.00	1,799.96	1,838.87	1,838.44	4.67	.4.74	154.99	. 809.21	6.12	813.40	804.01	9.39	86.580		
,900.00	1,899.86	1,944.38	1,943.58	4.82	4.92	154.65	. 803.52	-0.68	811.89	802.17	9.73	83.483	•	,
,956.49	1,956.26	2,000.82	1,999.80	4.92	5.03	. 154.49	. 800.36	-4.45	811.64	801.71	9.93	81.754 CC		•
200 00	4 000 00	0.044.00	0.040.40		,	454.07	707.00	-'						
00.00	1,999.68	2,044.30	2,043.12	5.00	5.12	154.37	797.93	-7.36	811.79	801.70	10.09	80.434 ES		
,100.00	2,099.37	2,144.23	2,142.67	5.19	5.33	154.13	792.33	-14.03	813.27	802.78	10.50	77.460		
2,200.00	2,198.90	2,244.15	2,242.21	5.41	5.57	153.94	786.74	-20.71	816.34	805.40	10.94	74.613		
,300.00	2,298.36	2,344.06	2,341.73	5.65	5.82	153.79	781.15	-27.38	820.20	808.78	11.41	71.857	•	
2,400.00	2,397.81	2,443.96	2,441.26	5.90	6.08	153.64	775.56	-34.06	824.06	812.15	11.91	69.163	* .	
,500.00	2,497.26	2,543.86	2,540.78	6.17	6.36	153.50	769.97	-40.73	827.93	815.49	. 12.44	66.556		
,600.00	2,596.71	2,643.77	2,640.30	6.45	6.64	153.35	764.38	-47.41	831.80	818.82	12.99	64.055		
2,700.00	2,696.16	2,743.67	2,739.82	6.74	6.93	153.21	758.79	-54.08	835.68	822.13	13.55	61.671	•	
2,800.00	2,795.62													
		2,843.57	2,839.35	7.04	7.24	153.07	753.20	-60.76	839.56	825.43	14.13	59.407		
2,900.00	2,895.07	2,943.47	2,938.87	. 7.35	7.55	152.92	747.61	-67.44	843.45	828.72	14.73	57.266		
,000.00	2,994.52	3,043.38	3,038.39	7.66	17:86	152.78	. 742.01	-74.11	847.35	832.01	15.34	55.245		
,100.00	3,093.97	3,143.28	3,137.92	7.99	8.18	152.65	736.42	-80.79	851.25	835.29	15.96	53.341		
,200.00	3,193.43	3,243.18	3,237.44	8.31	8.51	152.51	730.83	-87.46	855.15	838.56	16.59	51.547		
,300.00	3,292.88	3,343.09	3,336.96	8.65	8.84	152.37	725.24	-94.14	859.06	841.83	17.23	49.859		•
400.00	3,392.33	3,442.99	3,436.48	8.98	9.17	152.24	719.65	-100.81	862.97	845.09	17.88	48.270		
					2				3-2-31	2.0.00	50			
,500.00	3,491.78	3,542.89	3,536.01	9.33	9.51	152.11	714.06	-107.49	866.89	848.36	18.53	46.774		
,600.00	3,591.23	3,642.80	3,635.53	9.67	9.85	151.97	708.47	-114.16	870.81	851.62	19.20	45.365	÷	
700.00	3,690.69	3,742.70	3,735.05	. 10.02	10.19	151.84	702.88	-120.84	874.74	854.88	19.86	44.037		
,800.00	3,790.14	3,842.60	3,834.57	10.37	10.54	151.71	697.29	-127.51	878:67	858.14	20.54	42.784		
900.00	3,889.59	3,942.50	3,934.10	10.72	10.88	151.58	691.70	-134.19	882.61	861.39	21.22	41.601		
	20	40:	4.055.55		4									
00.000	3,989.04	4,042.41	4,033.62	11.08	11.23	151.46	686.11	-140.86	886.55	864.65	21.90	40.484		
100.00	4,088.50	4,142.31	4,133.14	. 11.44	11.59	151.33	680.52	-147.54	890.49	867.91	22.59	39.428		
200.00	4,187.95	4,242.21	4,232.67	11,80	11.94	151.20	674.92	-154.21	894.44	871.17	23.28	38.427	•	
300.00	4,287.40	4,342.12	4,332.19	12.16	12.29	151.08	669.33	-160.89	898.40	874.43	23.97	37.480		
,400.00	4,386.85	4,440.72	4,430.42	12.52	12.64	150.96	663.82	-167.47	902.36	877.70	24.66	36.589		
500.00	4,486.30	4,528.26	4,517.72	12.89	12.95	150.91	659.70	-172.39	907.15	881.84	25.31	35.840		
,600.00	4,585.76	4,615.66	4,605.01	13.25	13.25	150.97	656.87	-172.39	913.30	887.35	25.95	35.840		
,700.00														
	4,685.21	4,702.84	4,692.15	13.62	13.55	151.13	655.32	-177.61	920.81	894.23	26.58	34.641		
00.008,	4,784.66	4,806.65	4,782.66	13.99	13.87	151.38	655.00	-178.00	929.64	902.40	27.24	34.123	, .	
900.00	4,884.11	4,907.20	4,882.11	14.36	14.18	151.69	655.00	-178.00	938.84	910.94	27.90	33.650		

Anticollision Report

Company: Project:

Matador Resources

Reference Site:

Eddy County, NM Leatherneck Fed

Site Error:

0.00 usft

Reference Well: Well Error:

202H 0.00 usft

Reference Wellbore

ОН

Reference Design:

Prelim Plan A

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

Rig @ 3269.00usft (GL:3,240' + KB:29') Rig @ 3269.00usft (GL:3,240' + KB:29')

North Reference:

Survey Calculation Method:

Output errors are at

2.00 sigma

Well 202H

Database:

Offset TVD Reference:

WellPlanner1

Minimum Curvature

ULVEN PICO	ram: . ()-M\	WD+HDGM, 12	200-MWD+HI	3GM, 8800-MM					*				Official Wall Essess	0.00
urvey Prog									Dista				Offset Well Error:	0.00 u
Refer	-	Offse		Semi Major		•								
leasured	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbon	e Centre	Between	Between	Minimum	Separation	Warning	
Depth (usft)	Depth	Depth (usft)	Depth (= (*)	((usft)	Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation	Factor		
	(usft)	~.	(usft)	(usft)	(usit)	(*)	(usft)	(usft)	(usft)	(usft)	(usft)			
5,100.00	5,083.02	5,108.29	5,081.02	15.10	14.80	152.28	655.00	-178.00	957.32	928.10	29.22	32.760		
5,200.00	5,182.47	5,208.84	5,180.47	15.48	15.11	152.57	655.00	-178.00	966.60	936.71	29.89	32.341		
5,300.00	5,281.92	5,309.39	5,279.92	15.85	15.42	152.85	655.00	-178.00	975.90	945.34	30.56	31.938		
5,400.00	5,381.37	5,409.94	5,379.37	16.22	15.74	153.13	655.00	-178.00	985.22	953.99	31.23	31.551	.**	
5,500.00	5,480.83	5,489.52	5,478.83	16.60	·~· 15.99	153.40	655.00	-178.00	994.56	962.73	31.83	31.244		
5,600.00	5,580.28	5,588.97	5,578.28	16.97	16.31	153.67	655.00	-178.00	1,003.93	971.43	32.50	30.887		
								.== ==						
5,700.00	5,679.73	5,688.42	5,677.73	17.35	16.63	153.93	655.00	-178.00	1,013.32	980.14	33.18	30.543	,	
5,800.00	5,779.18	5,787.87	5,777.18	17.73	16.95	154.19	655.00	-178.00	1,022.73	988.88	33.85	30.211	•	
5,900.00	5,878.64	5,887.33	5,876.64	18.10	17.27	154.44	655.00	-178.00	1,032.16	997.63	34.53	29.892		
6,000.00	5,978.15	5,986.84	5,976.15	18.48	17.59	154,71	655.00	-178.00	1,041.06	1,005.85	35.21	29.569		
6,100.00	6,077.87	6,086.56	6,075.87	18.84	17.92	154.92	655.00	-178.00	1,047.72	1,011.84	35.89	29,196		
6,200.00	6,177.76	6,186.45	6,175.76	19.19	18.24	155.06	655.00	-178.00	1,052.03	1,015.47	36.56	28.774		
6,300.00	6,277.73	6,286.42	6,275.73	19.53	18.57	155.12	655.00	-178.00	1,053.96	1,015.47	37.24	28.306		
6,400.00	6,377.73		6,275.73											
		6,386.42		19.84	18.90	0.71	655.00	-178.00 178.00	1,054.08	1,016.20	37.88	27.824		
6,500.00	6,477.73	6,486.42	6,475.73	20.14	19.23	0.71	655.00	-178.00	1,054.08	1,015.55	38.53	27.357		
6,600.00	6,577.73	6,586.42	6,575.73	20.44	19.56	0.71	655.00	-178.00	1,054.08	1,014.90	39.18	26.903		
6,700.00	6,677.73	6,686.42	6,675.73	20.75	19.89	0.71	. 655.00	-178.00	1,054.08	1,014.25	39.83	26.463		
6,800.00	6,777.73	6,786.42	6,775.73	21.06	20.23	0.71	655.00	-178.00	1.054.08	1,013.59	40.49	26.036		
6,900.00	6,877.73	6,886.42	6,875.73	21.36	20.56	0.71	655.00	-178.00	1,054.08	1,012.94	41.14	25.621		
7,000.00	6,977.73	6,986.42	6,975.73	21.67	20.89	0.71	655.00	-178.00	1,054.08	1,012.28	41.80	25.217		
7,100.00	7,077.73	7,086.42	7,075.73	21.99	21.23	0.71	655.00	-178.00	1,054.08	1,012.20	42.46	24.825		
1,130.00	1,011.13	,,ouo.42	,,,,,,,	21.33	21,23	0.7 1	000.00	.70.00	1,004.00	1,011.02	72.70	27.023		
7,200.00	7,177.73	7,186.42	7,175.73	22.30	21.57	0.71	655.00	-178.00	1,054.08	1,010.96	43.12	24.444		
7,300.00	7,277.73	7,286.42	7,275.73	22.61	21.90	0.71	655.00	-178.00	1,054.08	1,010.30	43.78	24.074		
7,400.00	7,377.73	7,386.42	7,375.73	22.93	22.24	0.71	655.00	-178.00	1,054.08	1,009.63	44.45	23.714		
7,500.00	7,477.73	7,486.42	7,475.73	23.25	22.58	0.71	655.00	-178.00	1,054.08	1,008.96	45.12	23.363		
7,600.00	7,577.73	7,586.42	7,575.73	23.56	22.92	0.71	655.00	-178.00	1,054.08	1,008.30	45.78	23.023		
7,700.00	7,677.73	7,686.42	7,675.73	23.88	23.26	0.71	655.00	-178.00	1,054.08	1,007.63	46.45	22.691		
7,800.00	7,777.73	7,786.42	7,775.73	24.20	23.60	0.71	655.00	-178.00	1,054.08	1,006.95	47.13	22.368		
7,900.00	7,877.73	7,886.42	7,875.73	24.52	23.94	0.71	655.00	-178.00	1,054.08	1,006.28	47.80	22.053		
8,000.00	7,977.73	7,986.42	7,975.73	24.85	24.28	0.71	655.00	-178.00	1,054.08	1,005.61	48.47	21.746		
8,100.00	8,077.73	8,086.42	8,075.73	25.17	24.62	0.71	655.00	-178.00	1,054.08	1,004.93	49.15	21.448		
0.05	0.4=====	0.4==	0.47		a ·			, mar = -	4	4.0	.=			
8,200.00	8,177.73	8,186.42	8,175.73	25.49	24.96	0.71	655.00	-178.00	1,054.08	1,004.26	49.82	21.157		
8,300.00	8,277.73	8,286.42	8,275.73	25.82	25.30	0.71	655.00	-178.00	1,054.08	1,003.58	50.50	20.873		
8,400.00	8,377.73	8,386.42	8,375.73	26.14	25.65	0.71	655.00	-178.00	1,054.08	1,002.90	51.18	20.597		
8,500.00	8,477.73	8,486.42	8,475.73	26.47	25.99	0.71	655.00	-178.00	1,054.08	1,002.22	51.86	20.327		
8,600.00	8,577.73	8,586.42	8,575.73	26.80	26.34	0.71	655.00	-178.00	1,054.08	1,001.54	52.54	20.064		
8 700 00	9 677 72	9 505 40	8 675 72	26.06	26 60	0.71	eee oo	-179 00	1.054.00	1 001 02	52.05	10 000		
8,700.00	8,677.73	8,686.42	8,675.73	26.96	26.68	0.71	655.00	-178.00	1,054.08	1,001.03	53.05	19.869		
8,800.00	8,777.29	8,785.98	8,775.29	26.97	26.87	-100.35	655.00	-178.00	1,055.50	1,002.25	53.26	19.819		
8,900.00	8,873.95	8,882.64	8,871.95	26.98	26.90	101.17	655.00	-178.00	1,060.37	1,007.08	53.29	19.899	•	
9,000.00	8,964.77	- 8,940.68	8,929.96	26.99	26.90	-101.34	655.62	-176.98	1,070.73	1,017.49	53.24	20.112		
9,100.00	9,047.00	8,987.05	8,976.07	27.02	26.90	-100.65	658.16	-172.84	1,089.57	1,036.39	53.18	20.489		
9,200.00	9,118.16	9,031.31	9,019.57	27.08	26.90	-98.35	662.39	-165.93	.1,116.43	1,063.26	. 53.18	20.994		
9,300.00	9,176.42	9,073.32	9,060.16	27.18	26.89	-94.86	668.02	-156.75	1,147.66	1,094.37	53.29	21.536		
9,400.00	9,220.09	9,112.81	9,000.10	27.10	26.88	-91.72	674.71	-145.82	1,181.97	1,128.42	53.55	22.072		
	9,247.84	9,150.00	9,131.80	27.41	26.87	-88.77	682.23		1,218.90					
9,500.00 9,600.00	9,247.84	9,182.23	9,131.80	28.59	26.87	-85.83	689.67	-133.55 -121,41	1,218.90	1,164.94 1,203.44	53.97 54.50	22.586 23.083		
5,000.00	9,200.03	9,102.23	3,100.70	20.39	20.07	-00.00	009.07	-121,41	1,201.93	1,203.44	34.50	23.003		
9,700.00	9,259.00	9,214.74	9,189.00	29.46	26.86	-86.65	698.03	-107.77	1,300.01	1,244.92	55.09	23.597		
9,800.00	9,259.00	10,033.12	9,500.00	30.49	30.36	-100.48	849.64	571.95	1,335.72	1,275.57	60.15	22.208		
9,900.00	9,259.00	10,033.12	9,500.00	31.65	31.46	-100.48	849.62	671.95	1,335.79	1,273.41	62.37	21.416		
													•	
10,000.00	9,259.00	10,233.12	9,500.00	32.94	32.69	-100.48	849.61 849.59	771.95 971.95	1,335.86	1,271.01	64.84	20.601		
10,100.00	9,259.00	10,333.12	9,500.00	34.33	34.04	-100.48	849.59	871.95	1,335.92	1,268.40	67.53	19.783		
10,200.00	9,259.00	10,433.12	9,500.00	35.82		-100.48	849.57							

Anticollision Report

Company:

Matador Resources

Project:

Eddy County, NM

Reference Site: Site Error:

Leatherneck Fed 0.00 usft

Reference Well: Well Error:

202H 0.00 usft

Reference Wellbore

HO

Reference Design:

Prelim Plan A

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference:

Rig @ 3269.00usft (GL:3,240' + KB:29') Rig @ 3269.00usft (GL:3,240' + KB:29')

Survey Calculation Method:

Output errors are at

2.00 sigma

Well 202H

Database:

WellPlanner1

Minimum Curvature

Offset TVD Reference:

rvey Prog	ram: 0-M	WD+HDGM, 12	200-MWD+HI	JGM, 8800-MW	U+HUGM								Offset Well Error:	0.00 us
Reference Offset		Semi Major Axis			Distr			ance	*		Oliset Well Ellor.	0.00 q.		
asured	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellb	ore Centre	Between	Between	Minimum	Separation	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor		
-					- 1 - 1	: -				ese e c		40.400		
0,300.00	9,259.00	10,533.12	9,500.00	37.39	37.01	-100.48	849.55	1,071.95	1,336.06	1,262.61	73.45	18.190		
0,400.00	9,259.00	10,633.12	9,500.00	39.03	38.62	-100.48	. 849.54	1,171.95	1,336.13	1,259.49	76.64	17.433		
0,500.00	9,259.00	10,733.12	9,500.00	40.74	40.30	-100.48	849.52	1,271.95	1,336.20	1,256.23	79.97	16.709		
0,600.00	9,259.00 9,259.00	10,833.12	9,500.00	42.50	42.03	-100.48	849.50	. 1,371.95	1,336.27	1,252.86	83,41	16.021		
0,700.00		10,933.12	9,500.00	44.32	43.82	-100.48	849.48	1,471.95	1,336.34	1,249.39	86.95	15.369		
0,800.00	9,259.00	11,033.12	9,500.00	46.18	45.66	-100.48	849.47	1,571.95	1,336.41	1,245.82	90.58	14.754		
0,900.00	9,259.00	11,133.12	9,500.00	48.07	47.54	-100.48	849.45	1,671.95	1,336.47	1,242.18	94.29	14.174		
1,000.00	9,259.00	11,233.12.	9,500.00	50.01	49.45	-100.48	849.43	1,771.95	1,336.54	1,238.47	98.07	13.628		
1,100.00	9,259.00	11,333.12	9,500.00	51.97	51.40	-100.47	849.42	1,871.95	1,336.61	1,234.70	101.92	13.115		
1,200.00	9,259.00	11,433.12	9,500.00	53.96	53.37	-100.47	849.40	1,971.95	1,336.68	1,230.86	105.82	12.632		
1,300.00	9,259.00	11,533.12	9,500.00	55.97	55.37	-100.47	849.38	2,071.95	1,336.75	1,226.98	109.76	12.178		
1,400.00	9,259.00	11,633.12	9,500.00	58.01	57.40	-100.47	849.36	2,171.94	1,336.82	1,223.06	113.76	11.752		
1,500.00	9,259.00	11,733.12	9,500.00	60.06	59.44	-100.47	849.35	2,271.94	1,336.89	1,219.10	117.79	11.350		
1,600.00	9,259.00	11,833.12	9,500.00	62.14	61.50	-100.47	849.33	2,371.94	1,336.95	1,215.10	121.86	10.971		
1,700.00	9,259.00	11,933.12	9,500.00	64.23	63.58	-100.47	849.31	2,471.94	1,337.02	. 1,211.06	125.96	10.615		
1,800.00	9,259.00	12,033.12	9,500.00	66.33	65.68	-100.47	849.29	2,571.94	1,337.09	1,207.00	130.09	10.278		
						Y							•	
1,900.00	9,259.00	12,133.12	9,500.00	68.45	67.79	-100.47	849.28	2,671.94	1,337.16	1,202.91	134.25	9.960		
2,000.00		12,233.12	9,500.00	70.58	69.91	-100.47	849.26	2,771.94	1,337.23	1,198.80	138.43	9.660		
2,100.00	9,259.00	12,333.12	9,500.00	72.72	72.04	-100.47	849.24	2,871.94	1,337.30	1,194.66	142.64	9.376		
2,200.00	9,259.00	12,433.12	9,500.00	74.87	74.18	-100.47	849.22	2,971.94	1,337.37	1,190.50	146.86	9.106		
2,300.00	9,259.00	12,533.12	9,500.00	77.02	76.33	-100.47	849.21	3,071.94	1,337.44	1,186.33	151.11	8.851		
400.00	0.250.00	10 622 10	0.500.00	70.10	70 50	100.47	940.40	2 171 04	4 227 50	4 402 44	466.27	0.000		
2,400.00	9,259.00	12,633.12	9,500.00	79.19	78.50	-100.47	849.19	3,171.94	1,337.50 1,337.57	1,182.14	155.37	8.609	1	
2,500.00	9,259.00	12,733.12	9,500.00	81.37	80.67	-100.47	849.17	3,271.94		1,177.93	159.64	8.379		
2,600.00 2,700.00	9,259.00	12,833.12	9,500.00	83.55	82.84	-100.47	849.15	3,371.94	1,337.64	1,173.71	163.93	8.160		
	9,259.00	12,933.12	9,500.00	85.74	85.03	-100.47	849.14	3,471.94	1,337.71	1,169.47	168.24	7.951		
2,800.00	9,259.00	13,033.12	9,500.00	87.93	87.22	-100.47	849.12	3,571.94	1,337.78	1,165.22	172.55	7.753	•	
2,900.00	9,259.00	13,133.12	9,500.00	90.13	89.41	-100.47	849.10	3,671.94	1,337.85	1,160.97	176.88	7.564		
3,000.00	9,259.00	13,233.12	9,500.00	92.34	91.61	-100.46	849.08	3,771.94	1,337.92	1,156.70	181.22	7.383		
3,100.00	9,259.00	13,333.12		94.55	93.82	-100.46	849.07	3,871.94	1,337.98	1,152.42	185.57	7.210		
3,200.00	9,259.00	13,433.12	9,500.00	96.76	96.03	-100.46	849.05	3,971.94	1,338.05	1,148.13	189.93	7.045		
3,300.00	9,259.00	13,533.12	9,500.00	98.98	98.25	-100.46	849.03	4,071.94	1,338.12	1,143.83	194.29	6.887		
	0,200,00		0,000,00	00.00	00.20	100110	0.0.00	1,07 1.07	1,000112	1,110.00	707.20	0.001		
3,400.00	9,259.00	13,633.12	9,500.00	101.20	100.47	-100.46	849.01	4,171.94	1,338.19	1,139.52	198.67	6.736		•
3,500.00	9,259.00	13,733.12	9,500.00	103.43	102.69	-100.46	849.00	4,271.94	1,338.26	1,135.21	203.05	6.591		
3,600.00	9,259.00	13,833.12	- 9,500.00	105.66	104.92	-100.46	848.98	4,371.94	1,338.33	1,130.89	207.44	6.452		
3,700.00	9,259.00	13,933.12	9,500.00	107.89	107.15	-100.46	848.96	4,471.94	1,338.40	1,126,56	211.83	- 6.318		
3,800.00	9,259.00	14,033.12	9,500.00	110.13 -	109.38	-100.46	848.94	4,571.94	1,338.46	1,122.23	216.23	6.190	•	
													-	
3,900.00	9,259.00	14,133.12	9,500.00	. 112.37	111.62	-100.46	848.93	4,671.94	1,338.53	1,117.89	220.64	6.067		
1,000.00	9,259.00	14,233.12	9,500.00	114.61	113.86	-100.46	848.91	. 4,771.94	1,338.60	1,113.55	225.05	5.948		
1,100.00	9,259.00	14,333.12	9,500.00	116.86	116.10	-100.46	848.89	4,871.94	1,338.67	1,109.20	229.47	5.834		
4,200.00	9,259.00	14,433.12	9,500.00	119.10	118.35	-100.46	848.87	4,971.94	1,338.74	1,104.84	233.90	5.724		
1,300.00	9,259.00	14,533.12	9,500.00	121.35	120.59	-100.46	848.86	5,071.94	1,338.81	1,100.48	238.32	5.618	. ,	
1 400 00	. 0.250.00	14 622 40	0.500.00	100.00	100 84	100.40	040.04		1 220 00	1.006.10	242 70	E E 1 C		
,400.00	9,259.00	14,633.12	9,500.00	123.60	122.84	-100.46	848.84	5,171.94	1,338.88	1,096.12	242.76	5.515		
,500.00	9,259.00	14,733.12	9,500.00	125.86	125.09	-100.46	848.82	5,271.94	1,338.95	1,091.75	247.19	5.417		
,600.00	9,259.00	14,833.12	9,500.00	128.11	127.35	-100.46	848.80	5,371.94	1,339.01	1,087.38	251.63	5.321		
,700.00	9,259.00	14,933.12	9,500.00	130.37	129.60	-100.46	848.79	5,471.94	1,339.08	1,083.01	256.08	5.229		
,800.00	9,259.00	15,033.12	9,500.00	132.63	131.86	-100.45	848.77	5,571.94	1,339.15	1,078.63	260.52	5.140		
1,900.00	9,259.00	15,133.12	9,500.00	134.89	134.12	-100.45	848.75	5,671.94	1,339.22	1,074.25	264.97	5.054		
		•											:	
5,000.00	9,259.00	15,233.12	9,500.00	137.15	136.38	-100.45		5,771.94	1,339.29	1,069.86	269.43	4.971	•	
5,100.00	9,259.00	15,333.12	9,500.00	139.41	138.64	-100.45	848.72	5,871.94	1,339.36	1,065.47	273.88	4.890		
5,200.00	9,259.00	15,433.12	9,500.00	141.68	140.91	-100.45	. 848.70	5,971.94	1,339.43	1,061.08	278.34	4.812		
5,300.00	9,259.00	15,533.12	9,500.00	143.94	143.17	-100.45	848.68	6,071.94	1,339.49	1,056.69	282.81	4.736	•	
400.00	9,259.00	15,633.12	9,500.00	146.21	145.44	-100.45				1,052.29				

Anticollision Report

Matador Resources

Project:

Eddy County, NM

Reference Site:

Leatherneck Fed

Site Error: Reference Well: 0.00 usft 202H

Well Error:

0.00 usft

Reference Wellbore

ЮН

Reference Design: Prelim Plan A Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method: Output errors are at

Database:

Offset TVD Reference:

Well 202H

Rig @ 3269.00usft (GL:3,240' + KB:29')

Rig @ 3269.00usft (GL:3,240' + KB:29')

Grid

Minimum Curvature

2.00 sigma

WellPlanner1 Offset Datum

urvey Progra	ram: 0-M	WD+HDGM, 12	200-MWD+HI	DGM, 8800-MV	/D+HDGM									Offset Well Error:	0.00 us
Refere		Offse		Semi Major			-			Dista	nce			Offset Well Error:	0.00 u
leasured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface	+N/-S	Wellbore	+E/-W	Between Centres (usft)	Between Ellipses	Minimum Separation (usft)	Separation Factor	Warning	
				5.		(°) .	(usft)		(usft)		(usft) .	(usit)	e f Andria de la compa		·
15,500.00	9,259.00	15,733.12	9,500.00	148.48	147.70	-100.45		48.65	6,271.94	1,339.63	1,047.89	291.74	4.592		
15,600.00	9,259.00	15,833.12	9,500.00	150.75	149.97	-100.45		48.63	6,371.94	1,339.70	1,043.49	296.21	4.523		
15,700.00	9,259.00	15,933.12	9,500.00	153.02	152.24	-100.45		48.61	6,471.94	1,339.77	1,039.09	300.68			
15,800.00	9,259.00	16,033.12	9,500.00	155.29	154.51	-100.45		48.59	6,571.94	1,339.84	1,034.68	305.15	4.391	2*	
15,900.00	9,259.00	16,133.12	9,500.00	157.57	156.78	-100.45		48.58	6,671.94	1,339.91	1,030.28	309.63	4.327		
16,000.00	9,259.00	16,233.12	9,500.00	159.84	159.06	-100.45	8	48.56	6,771.94	1,339.98	1,025.87	314.11	4.266		
16,100.00	9,259.00	16,333.12	9,500.00	162.12	161.33	-100.45	. 8	48.54	6.871.94	1,340.04	1,021.45	318.59	4.206	•	
16,200.00	9,259.00	16,433.12	9,500.00	164.39	163.61	-100.45		48.53	6,971.94	1,340.11	1,017.04	323.07	4.148		
16,300.00	9,259.00	16,533.12	9,500.00	166.67	165.88	-100.45		48.51	7,071.94	1,340.18	1,012.63	327.56	4.091	•	* .
16,400.00	9,259.00	16,633.12	9,500.00	168.95	168.16	-100.45		48.49	7,171.94	1,340.15	1,008.21		4.036		
16,500.00	9.259.00	16,733.12	9,500.00	171.22	170.44	-100.45		48.47	7,271.94	1,340.32	1,003.79	336.53	3.983	•	•
10,000.00	0,200.00	10,100.12	0,000.00		110.44	-100.40		-01	7,271.37	1,040.02	1,000.73	330.33	3.503	*	
16,600.00	9,259.00	16,833.12	9,500.00	173.50	172.71	-100.44	8	48.46	7,371.94	1,340.39	999.37	341.02	3.931		
16,700.00	9,259.00	16,933.12	9,500.00	175.78	174.99	-100.44	8	48.44	7,471.94	1,340.46	994.95	345.51	3.880		
16,800.00	9,259.00	17,033.12	9,500.00	178.06	177.27	-100.44	8	48.42	7,571.94	1,340.52	990.53	350.00	3.830		
16,900.00	9,259.00	17,133.12	9,500.00	180.34	179.55	-100.44	8	48.40	7,671.94	1,340.59	986.10	354.49	3.782		
17,000.00	9,259.00	17,233.12	9,500.00	182.63	181.83	-100.44	8	48.39	7,771.94	1,340.66	981.67	358.99	3.735		
			•		*						•				
17,100.00	9,259.00	17,333.12	9,500.00	184.91	184.12	-100.44	8-	48:37	7,871.94	1,340.73	977.25	363.48	3.689		
17,200.00	9,259.00	17,433.12	9,500.00	187.19	186.40	-100.44	8-	48,35	7,971.94	1,340.80	972.82	367.98	3.644		
17,300.00	9,259.00	17,533.12	9,500.00	. 189.48	188.68	-100.44	. 8	48.33	8,071.94	1,340.87	968.39	372.48	3.600		
17,400.00	9,259.00	17,633.12	9,500.00	191.76	190.97	-100.44		48.32	8,171.94	1,340.94	963.96	376.98	3.557		
17,500.00	9,259.00	17,733.12	9,500.00	194.04	193.25	-100.44	. 8	48.30	8,271.94	1,341.01	959.53	381.48	3.515		
17,600.00	9,259.00	17,833.12	9,500.00	196.33	195.53	-100.44	A	48.28	8,371.94	1,341.07	955.09	385.98	3.474		
17,700.00	9.259.00	17,933.12	9,500.00	198.62	197.82	-100.44		48.26	8,471.94	1,341.14	950.66	390.48	3.474		
17,800.00	9,259.00	18,033.12	9,500.00	200.90	200.10	-100.44		48.25	8,571.94	1,341.14	946.23	394.98	3.435		
17,900.00	9,259.00	18,133.12	9,500.00	203.19	202.39	-100.44		48.23	8,671.94	1,341.28	941.79	399.49	3.357		
18,000.00	9,259.00	18,233.12	9,500.00	205.48	204.68	-100.44		48.21	8,771.94	1,341.35	937.35	403.99	3.320		
,	-,	10,200712	0,000.00	2000	20 1.00	100.71	·	.0.2.	0,,,,,,,,,	1,011.00		. 400.00	3.325		
18,100.00	9,259.00	18,333.12	9,500.00	207.76	206.96	-100.44	8	48.19	8,871.94	1,341.42	932.92	408.50	3.284	•	
18,200.00	9,259.00	18,433.12	9,500.00	210.05	209.25	-100.44	8	48.18	8,971.94	1,341.49	928.48	413.01	3.248		
18,300.00	9,259.00	18,533.12	9,500.00	212.34	211.54	-100.44	8-	48.16	9,071.94	1,341.55	924.04	417.52	. 3.213		
18,400.00	9,259.00	18,633.12	9,500.00	214.63	213.83	-100.44	8-	48.14	9,171.94	1,341.62	919.60	422.03	3.179		
18,500.00	9,259.00	18,733.12	9,500.00	216.92	216.12	-100.43	. 8	48.12	9,271.94	1,341.69	915.16	426.53	3.146		
18,600.00	9,259.00	18,833.12	9,500.00	219.21	218.41	-100.43		48.11	9,371.94	1,341.76	910.72	431.05	3.113		
18,700.00	9,259.00	18,933.12	9,500.00	221.50	220.70	-100.43		48.09	9,471.94	1,341.83	906.27	435.56	3.081		
18,800.00	9,259.00	19,033.12	9,500.00	223.79	222.99	-100.43		48.07	9,571.94	1,341.90	901.83	440.07	3.049		
18,900.00	9,259.00	19,133.12	9,500.00	226.08	225.28	-100.43		48.05	9,671.94	, 1,341.97	897.39	444.58	3.018		
19,000.00	9,259.00	19,233.12	9,500.00	228.37	227.57	-100.43	8-	48.04	9,771.94	1,342.04	892.94	449.09	2.988		
19,100.00	9,259.00	19,333.12	9,500.00	230.66	229.86	-100.43	Ω.	48.02	9,871.94	1,342.10	888.50	453.61	2.959		
19,200.00	9,259.00	19,433.12	9,500.00	232.95	232.15	-100.43		48.00	9,971.94	1,342.10	884.05	458.12	2.939		
.0,200.00	3,200.00	10,700.12	3,500.00	202.33	202.10	-100.73	, 0	-0.00	3,311.34	1,572.17	004.00	400.1Z	2.550		

Anticollision Report

Company: Project:

Matador Resources

Reference Site:

Eddy County, NM Leatherneck Fed

Site Error:

0.00 usft

Reference Well: Well Error:

202H 0.00 usft

Reference Wellbore Reference Design:

ОН

Prelim Plan A

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method:

Output errors are at

Database:

Offset TVD Reference:

Well 202H

Rig @ 3269.00usft (GL:3,240' + KB:29')

Rig @ 3269.00usft (GL:3,240' + KB:29')

Minimum Curvature 2.00 sigma

WellPlanner1

Survey Prog	ram: O-M	WD+HDGM					•						Officat Wall Error	0.00 ust
survey Prog Refer		WD+HDGW Offs	et	Semi Major	Axis				Dista	nce		•	Offset Well Error:	u.uu us
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbor		Between	Between	Minimum	Separation	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor		
0.00	0.00	0.00	0.00	0.00	0.00	0.00	30.00	0.00	30.00			and the second second second second second second		
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	4.34	5.15	0.00	30.00	0.00	30.00	20.51	9.49	3.162	•	
1,600.00	1,600.00	1,600.00	1,600.00	4.43	5.50	0.00	30.00	0.00	30.00	20.06	9.94	3.020 CC, E	S	
1,700.00	1,699.99	1,699.99	1,699.99	4.54	5.86	155.12 '	30.00	0.00	30.79	20.39	10.40	2.960		
1,800.00		1,800.45	1,800.45	4.67	6.21	156.24	29.26	-0.47	32.43	21.55	10.87	2.982		
1,900.00	1,899.86	1,900.94	1,900.90	4.82	6.54	156.93	27.03	-1.90	34.16	22.81	11.35	3.009		
2,000.00	1,999.68	2,001.46	2,001.32	5.00	6.87	157.24	23.32	-4.27	35.99	24.13	11.85	3.036	4	
2,100.00	2,099.37	2,102.00	2,101.67	5.19	7.21	157.22	18.12	-7.59	37.90	25.52	12.38	3.062		
2,200.00		2,202.57	2,201.93	5.41	7.55	156.93	11.44	-11.86	39.90	26.98	12.92	3.089		
2,300.00		2,302.54	2,301.51	5.65	7.89	156,56	4.09	-16.55	41.98	28.49	13.49	3.113		
2,400.00		2,402.51	2,401.11	5.90	8.23	156.23	-3.25	-21,24	44.06	29.99	14.07	3.131		
2,500.00		2,502.49	2,500.71	6.17	8.58	155.93	-10.59	-25.93	46.15	31.48	14.67	3.145		
2,600.00	2,596.71	2,602.47	2,600.30	6.45	8.93	155.66	-17.93	-30.62	48.23	32.95	15.29	3.155		
2,700.00		2,702.45	2,699.90	6.74	9.28	155.41 .	-25.28	-35.31	50.32	34.41	15.91	3.163		
2,800.00		2,802.43	2,799.50	7.04	9.64	155.18	-32.62	-40.00	52.41	35.86		3.167		
2,900.00		2,902.40	2,899.10	7.35	10.00	154.96	-39.96	-44.69	54.49	37.31	17.19	3.170		
3,000.00		3,002.38	2,998.69	7.66	10.35	154.77	-47.31	-49.38	56.58	38.74		3.171		
											• *		`	
3,100.00		3,102.36	3,098.29	7.99	10.72	154.58	-54.65	-54.07	58.67	40.17		3.171		
3,200.00		3,202.34	3,197.89	8.31	11.08	154.41	-61.99	-58.77	60.76	41.60	19.17	3.170		
3,300.00		3,302.32	3,297.49	8.65	11.44	154.25	-69.34	-63.46	62.85	43.01	19.84	3.168		
3,400.00		3,402.29	3,397.09	8.98	11.80	154.10	-76.68	-68.15 73.84	64.94	44.43	20.52	3.166		
3,500.00	3,491.78	3,502.27	3,496.68	9.33	12.17	153.96	-84.02	-72.84	67.04	45.84	21.20	3.163		
3,600.00	3,591.23	3,602.25	3,596.28	9.67	12.53	- 153.83	-91.37	-77.53	69.13	47.25	21.88	3.159		
3,700.00		3,702.23	3,695.88	10.02	12.90	153.71	-98.71	-82.22	71.22	48.65		3.155		
3,800.00		3,802.21	3,795.48	. 10.37	13.27	153.59	-106.05	-86.91	73.31	50.05		3.151		
3,900.00		3,902.18	3,895.07	10.72	13.64	153.48	-113.40	-91.60	75.40	51.45	23.96	3.147		
4,000.00	3,989.04	4,002.16	3,994.67	11.08	14.00	153.38	-120.74	-96.29	77.50	52.84	24.66	3.143	•	
4,100.00	4,088.50	4,102.14	4,094.27	11.44	14.37	153.28	-128.08	-100.98	79.59	54.23	25.36	3.139		
4,200.00		4,202.12	4,193.87	11.80	14.74	153.18	-135.43	-105.67	81.68	55.62		3.134		
4,300.00		4,302.10	4,293.46	12.16	15.11	153.09	-142.77	-110.37	83.78	57.01	26.77	3.130		
4,400.00		4,402.07	4,393.06	12,52	15.48	153.01	-150.11	-115.06	85.87	58.40		3.125		
4,500.00		4,502.05	4,492.66	12.89	15.85	152.93	-157.46	-119.75	87.97	59.78		3.121		
4,600.00	4,585.76	4,602.03	4,592.26	13.25	16.23	152.85	-164.80	-124.44	90.06	61.16	28.90	3.117		÷
4,700.00	4,685.21	4,702.01	4,691.85	13.62	16.60	152.78	-172.14	-129.13	92.15	62.55	29.61	3.112		
4,800.00	4,784.66	4,801.99	4,791.45	13.99	16.97	152.71	-179.49	-133.82	94.25	63.93	. 30.32	3.108		
4,900.00	4,884.11	4,901.96	4,891.05	14.36	17.34	152.64	-186.83	-138.51	96.34	65.31	31.04	3.104		
5,000.00	4,983.57	5,001.94	4,990.65	14.73	17.72	152.58	-194.17	-143.20	98.44	66.68	31.75	3.100		
	5,083.02	5,101.92	5,090.24	15.10	18.09	152.52	-201.52	-147.89	100.53	68.06	32.47	3.096		

Anticollision Report

Company: Project:

Matador Resources

Reference Site:

Eddy County, NM Leatherneck Fed

Site Error:

0.00 usft

Reference Well:

202H

Well Error: Reference Wellbore

Reference Design:

ОН

0.00 usft

Prelim Plan A

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

Well 202H

Rig @ 3269.00usft (GL:3,240' + KB:29') Rig @ 3269.00usft (GL:3,240' + KB:29')

North Reference:

Survey Calculation Method:

Output errors are at

2.00 sigma

Grid

Database:

WellPlanner1

Minimum Curvature

Offset TVD Reference:

rvey Prog	ram: 0-M	WD+HDGM,	*.								*		Offset Well Error:	· '0.00 us
Refer		Offse	at.	Semi Major	Axis			3	Dista	ince			Offset Well Error:	. 0.00 us
easured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore	Centre +E/-W	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
5,200.00	5,182.47	5,201.90	5,189.84	15.48	18.46	152.46	-208.86	-152.58	102.63	69.44	33.19	3.092		*
5,300.00		5,301.88	5,289.44	15.85	18.84	152.40	-216.20	-157.27	104.72	70.81	33.91	3.088		
5,400.00		5,401.85	5,389.04	16.22	19.21	152.35	-223.55	-161.96	106.82	72.19	. 34.63	3.085		
5,500.00		5,501.83	5,488.63	16.60	19.59	152.29	-230.89	-166.66	108.91	73.56	35.35	3.081		
5,600.00		5,601.81	5,588.23	16.97	19.96	152.24	-238.23	-171.35	111.01	74.94	36.07	3.077		
5,700.00	5,679.73	5,701.79	5,687.83	17.35	20.33	152.19	-245.58	-176.04	113.10	76.31	36.80	3.074		
5,800.00	5,779.18	5,801.77	5,787.43	17.73	20.71	152.15	-252.92	-180.73	115.20	77.68	37.52	3.070		
5,900.00		5,900.57	5,885.87	18.10	21.08	152.18	-259.94	-185.21	117.54	79.30	38.24	3.074		
6,000.00		5,997.99	5,983.11	18.48	21.44	152.68	-265.05	-188.48	121.14	82.21	38.93	3.111		
6,100.00		6,095.32	6,080.37	18.84	21.79	153.29	-268.07	-190.40	124.66	85.05	39.60	3.148		
6,200.00	6,177.76	6,192.72	6,177.76	19.19	22.12	153.97	-269.00	-191.00	127.96	87.72	40.24	3.180		
6,300.00	6,277.73	6,307.31	6,277.73	19.53	22.50	154.39	-269.00	-191.00	129.88	88.92	40.96	3.171		
3,400.00		6,407.31	6,377.73	19.84	22.83	0.00	-269.00	-191.00	130.00	88.38	41.62	3.124		
6,500.00		6,507.31	6,477.73	20.14	23.16	0.00	-269.00	-191.00	. 130.00	87.73	42.27	3.076		
5,600.00	6,577.73	6,607.31	6,577.73	20.44	23.49	0.00	-269.00	-191.00	130.00	87.08	42.92	3.029		
5,700.00		6,707.31	6,677.73	20.75	23.83	0.00	-269.00	-191.00	130.00	86.42	43.58	2.983		
.,. 55.66	0,011.10	0,, 01.01	0,0.7,70	20.70	20.00	. 0.00	200.00	.51.00	.55.55		40.00	2.000		
00.008,8	6,777.73	6,807.31	6,777.73	21.06	24.16	0.00	-269.00	-191.00	130.00	85.76	44.24	2.939		
,900.00	6,877.73	6,907.31	6,877.73	21.36	24.50	0.00	-269.00	-191.00	130.00	85.10	44.90	2.896		
7,000.00	6,977.73	7,007.31	6,977.73	21.67	24.83	0.00	-269.00	-191.00	130.00	84.44	45.56	2.854		
,100.00	7,077.73	7,107.31	7,077.73	21.99	25.17	0.00	-269.00	-191.00	130.00	83.78	46.22	2.813		
,200.00	7,177.73	7,207.31	7,177.73	22.30	25.51	0.00	-269.00	-191.00	130.00	83.11	46.89	2.773		
,300.00		7,307.31	7,277.73	22.61	25.84	0.00	-269.00	-191.00	130.00	82.45	47.55	2.734		
7,400.00		7,407.31	7,377.73	22.93	26.18	0.00	-269.00	-191.00	130.00	81.78	48.22	2.696		
,500.00		7,507.31	7,477.73	23.25	26.52	0.00	-269.00	-191.00	130.00	81.11	48.89	2.659		
7,600.00		7,607.31	7;577.73	23.56	26.86	0.00	-269.00	-191.00	130.00	. 80.44	49.56	2.623		
7,700.00	7,677.73	7,707.31	7,677.73	23.88	27.20	0.00	-269.00	-191.00	130.00	79.77	50.23	2.588		
7,800.00	7,777.73	7,807.31	7,777,73	24.20	27.54	0.00	-269.00	-191.00	130.00	79.09	50.91	2.554		
7,900.00		7,907.31	7,877.73	24.52	27.88	0.00	-269.00	-191.00	130.00	78.42	51.58	2.520		
8,000.00		8,007.31	7,977.73	24.85	28.22	0.00	-269.00	-191.00	130.00	77.74	52.26	2.488		
3,100.00		8,107.31	8,077.73	25.17	28.56	0.00	-269.00	-191.00	130.00	77.07	52.20	2.456		
3,200.00		8,207.31	8,177.73	25.49	28.90	0.00	-269.00	-191.00	130.00	76.39	53.61	2.425		
5,200.00	0,177.73	0,207.31	0,177.73	23.43	20.50	0.00	-205.00	*151.00	130.00	70.35	33.01	2.425		
3,300.00	8,277.73	8,307.31	8,277.73	25.82	29.25	0.00	-269.00	-191.00	130.00	75.71	54.29	2.395		
3,400.00	8,377.73	8,407.31	8,377.73	26.14	29.59	0.00	-269.00	-191.00	130.00	75.03	54.97	2.365		
,500.00	8,477.73	8,507.31	8,477.73	26.47	29.93	0.00	-269.00	-191.00	130.00	74.35	55.65	2.336		
,600.00		8,607.31	8,577.73	26.80	30.28	0.00	-269.00	-191.00	130.00	73.67	56.33	2.308	•	
700.00	8,677.73	8,707.31	8,677.73	26.96	30.62	0.00	-269.00	-191.00	130.00	73.15	56.85	2.287		
		0.0				45			,					
,800.00		8,807.75	8,777.29	26.97	30.96	-104.00	-269.00	-191.00	131.73	74.48	57.25	2.301		
,900.00		8,888.91	8,873.95	26.98	31.24	-112.96	-269.00	-191.00	140.02	82.36	57.67	2.428		
,000.00		9,001.69	8,986.31	26.99	31.63	-125.91	-273.03	-184.49	156.56	98.57	57.99	2.700	•	
,100.00	9,047.00	9,127.60	9,107.29	27.02	32.03	-138.71	-290.89	-155.63	173.22	116.73	56.50	3.066		•
,200.00	9,118.16	9,262.21	9,225.10	27.08	32.41	-150.38	-324.84	-100.78	188.32	135.81	52.52	3.586		
,300.00	9,176.42	9,397.00	9,324.99	27.18	32.74	-161.57	-371.47	-23.73	200.45	153.23	47.22	4.245		
,400.00		9,529.20	9,403.86	27.10	33.16	-170.45	-412.92	73.53	215.10	172.68	42.42	5.071		
,500.00		9,673.79	9,465.05	27.41	33.85	-176.62	-445.13	200.07	229.53	191.92	37.61	6.102		
,600.00	9,247.84	9,828.42	9,465.05	28.59	34.79	-179.69	-445.13 -462.17	349.86	239.47	204.55	34.92	6.857		
,700.00		9,950.38	9,500.00	29.46	35.69	180.00	-463.70	471.72	241.00	204.33	35.19	6.849		
,. 00.00	3,233.00		5,000.00	23.40	30.09	100.00			271.00	200.01	QQ.13	0.0-10		
,800.00	9,259.00	10,050.38	9,500.00	30.49	36.55	180.00	-463.79	571.72	241.00	205.38	35.62	6.766		
,900.00	9.259.00	10,150.38	9,500.00	31.65	37.52	180.00	-463.87	671.72	241.00	204.88	36.12	6.672		
00.000,0	9,259.00	10,250.38	9,500.00	. 32.94	38.61	180.00	-463.96	771.72	241.00	204.32	36.68	6.571		
,100.00	9,259.00	10,350.38	9,500.00	34.33	39.81	180.00	-464.05	871.72	241.00	203.71	37.29	6.463		
,200.00	9,259.00	10,450.38	9,500.00	35.82	41.09	180.00	-464.14	971.72	241.00	203.04	37.96	6.349		
300.00	9,259.00	10,550.38	9,500.00	37.39	42.47	180.00	-464.22	1,071.72	241.00	202.32	38.68	6.230		

Anticollision Report

Company:

Project:

Eddy County, NM

Reference Site:

Leatherneck Fed

Site Error: Reference Well: 0.00 usft

Well Error:

202H

0.00 usft

Reference Wellbore

OH

Reference Design: Prelim Plan A Local Co-ordinate Reference:

MD Reference:

North Reference:

Survey Calculation Method: Output errors are at

Database:

Offset TVD Reference:

Rig @ 3269.00usft (GL:3,240' + KB:29')

Rig @ 3269.00usft (GL:3,240' + KB:29')

Minimum Curvature

2.00 sigma

WellPlanner1

Offset Des Survey Progr Refere	ram: 0-M	WD+HDGM Offse		- 222H - Ol Semi Major		TIGUTA	eran inchesion in		Dinen				Offset Site Error: Offset Well Error:	0.00 us
Measured Depth	ence Vertical Depth	Measured Depth	Vertical Depth	Reference	Axis Offset	Highside Toolface	Offset Wellbor		Dista Between Centres	Between	Minimum	Separation	Warning	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	+N/-S (usft)	+E/-W (usft)	(usft)	Ellipses (usft)	Separation (usft)	Factor		
10,400.00	9,259.00	10,650.38	9,500.00	39.03	43.92	180.00	-464.31	1,171.72	241.00	201.54	39.46	6.108		
10,500.00	9,259.00	10,750.38	9,500.00	- 40.74	45.44	180.00	-464.40	1,271.72	241.00	200.73	40.27	5.984	•	
10,600.00	9,259.00	10,850.38	9,500.00	42.50	47.03	180.00	-464.49	1,371.72	241.00	199.86	41.14	5.859		
10,700.00	9,259.00	10,950.38	9,500.00	44.32	48.67	180.00	-464.57	1,471.72	241.00	198.96	42.04	5.733	•	
10,800.00	9,259.00	11,050.38	9,500.00	46.18	50.37	180.00	-464.66	1,571.72	241.00	198.02	42.98	5.607		
10,900.00	9,259.00	11,150.38	9,500.00	48.07	52.11	180.00	-464.75	1,671.72	241.00	197.04	43.96	5.483	•	•
11,000.00	9,259.00	11,250.38	9,500.00	50.01	53.89	180.00	-464.83	1,771.72	241.00	196.03	44.97	5.359	6.0	•
11,100.00	9,259.00	11,350.38	9,500.00	51.97	55.72	180.00	-464.92	1,871.72	241.00	. 194.99	46.01	5.238		
11,110.84	9,259.00	11,361.22	9,500.00	52.18	55.92	180.00	-464.93	1,882.55	241.00	194.88	46.12	5.225		
. 11,200.00	9,259.00	11,450.38	9,500.00	53.96	57.58	180.00	-465.01	1,971.72	241.00	193.92	47.08	5.119		
11,300.00	9,259.00	11,550.38	9,500.00	55.97	59.47	180.00	-465.10	2,071.72	241.00	192.82	48.18	5.002		
11,400.00	9,259.00	11,650.38	9,500.00	58.01	61.38	180.00	-465.18	2,171.72	` 241.00	191,70	49.30	4.888		
11,500.00	9,259.00	11,750.38	9,500.00	60.06	63.33	v 180.00	-465.27	2,271.72	241.00	190.55	50.45	4.777		
11,600.00	9,259.00	11,850.38	9,500.00	62.14	65.30	180.00	-465.36	2,371.72	241.00	189.38	51.62	4.669		
11,700.00	9,259.00	11,950.38	9,500.00	64.23	67.28	180.00	-465.45	2,471.72	241.00	188.19	52.81	4.563	٠.	
11,800.00	9,259.00	12,050.38	9,500.00	66.33	69.29	180.00	-465.53	2,571.72	241.00	186.98	54.02	4.461		•
11,900.00	9,259.00	12,150.38	9,500.00	68.45	71.32	180.00	-465.62	2,671.72	241.00	185.75	55.25	4.362		
12,000.00	9,259.00	12,250.38	9,500.00	70.58	73.36	180.00	-465.71	2,771.72	241.00	184.50	56.50	4.266	•	
12,100.00	9,259.00	12,350.38	9,500.00	72.72	75.42	180.00	-465.79	2,871.72	241.00	183.24	57.76	4.173		
12,200.00	9,259.00	12,450.38	9,500.00	74.87	77.50	180.00	-465.88	2,971.72	241:00	181.97	59.03	4.082		
12,300.00	9,259.00	12,550.38	9,500.00	77.02	79.58	180.00	-465.97	3,071.72	241.00	180.68	60.32	3.995		
12,400.00	9,259.00	12,650.38	9,500.00	· 79.19	81.68	180.00	-466.06	3,171.72	241.00	179.37	61.63	3.911	• *	
12,500.00	9,259.00	12,750.38	9,500.00	81.37	83.79	180.00	-466.14	3,271.72	241.00	178.06	62.94	3.829		
12,600.00	9,259.00	12,850.38	9,500.00	83.55	85.91	180.00	-466.23	3,371.72	241.00	176.73	64.27	3.750		
12,700.00	9,259.00	12,950.38	9,500.00	85.74	88.04	180.00	-466.32	3,471.72	241.00	175.40	65.60	3.674		
12,800.00	9,259.00	13,050.38	9,500.00	87.93	90.17	180.00	-466.41	3,571.72	241.00	174.05	- 66.95	3.600		
12,900.00	9,259.00	13,150.38	9,500.00	90.13	92.32	180.00	-466.49	3,671.72	241.00	172.69	68.31	3.528		
13,000.00	9,259.00	13,250.38	9,500.00	92.34	94.47	180.00	-466.58	3,771.71	241.00	171.33	69.67	3.459		
13,100.00	9,259.00	13,350.38	9,500.00	94.55	96.63	180.00	-466.67	3,871.71	241.00	169.95	71.05	3.392		
13,200.00	9,259.00	13,450.38	9,500.00	96.76	98.80	180.00	-466.75	3,971.71	241.00	168.57	72.43	3.327		
13,300.00	9,259.00	13,550.38	9,500.00	98.98	100.97	180.00	-466.84	4,071.71	241.00	167.18	73.82	3.265		
13,400.00	9,259.00	13,650.38	9,500.00	101.20	103.15	180.00	-466.93	4,171.71	241.00	. 165.79	75.21	3.204		
13,500.00	9,259.00	13,750.38	9,500.00	103.43	105.34	180.00	-467.02	4,271.71	241.00	164.38	76.62			
13,600.00	9,259.00	13,850.38	9,500.00	105.66	107.52	180.00	-467.10	4,371.71	241.00	162.97	78.03	: 3.145 3.089		
13,700.00	9,259.00	13,950.38	9,500.00	107.89	109.72	180.00	-467.19	4,471.71	241.00	161.56	79.44	3.034		
13,800.00	9,259.00	14,050.38	9,500.00	110.13	111.92	180.00	-467.28	4,571.71	241.00	160.14	80.86	2.980 -		
13,900.00	9,259.00	14,150.38	9,500.00	112.37	114.12	180.00	-467.37	4,671.71	. 241.00	158.71	82.29	2.929		
14,000.00	9,259.00	14,250.38	9,500.00	114.61	116.33	180.00	-467.45	4,771.71	241.00	157.28	83.72	2.879	•	
14,100.00	9,259.00	14,350.38	9,500.00	. 116.86	118.54	180.00	-467.54	4,871.71	241.00	155.84	85.16	2.830	•	
14,111.20	9,259.00	14,361.58	9,500.00	117.11	118.79	180.00	-467.55	4,882.92	241.00	155.68	85.32	2.825		
14,200.00	9,259.00	14,450.38	9,500.00	119.10	120.75	180.00	-467.63	4,971.71	241.00	154.40	86.60	2.783		
14,300.00	9,259.00	14,550.38	9,500.00	121.35	122.97	180.00	-467.71	5.071.71	241.00	152.95	•	2 727		
14,400.00	9,259.00	14,650.38	9,500.00	123.60	125.19	180.00	-467.71 -467.80	5,071.71			88.05 . 89.50	2.737		
14,500.00	9,259.00	14,750.38	9,500.00	125.86	125.19	180.00	-467.80 -467.89		241.00	151.50		2.693		
14,600.00	9,259.00	14,750.38	9,500.00	128.11	127.42	180.00	-467.89 -467.98	5,271.71 5,371.71	241.00 241.00	150.05	90.95	2.650	•	
14,700.00	9,259.00	14,950.38	9,500.00	130.37	131.87	180.00	-467.96 -468.06	5,371.71	241.00	148.59 147.13	92.41 93.87	2.608 2.567		
										•		•		
14,800.00	9,259.00	15,050.38	9,500.00	132.63	134.11	180.00	-468,15	5,571.71	241.00	145.67	95.33	2.528		
14,900.00	9,259.00	15,150.38	9,500.00	134.89	136.34	180.00	-468.24	5,671.71	241.00	144.20	96.80	2.490		
15,000.00	9,259.00	15,250.38	9,500.00	137.15	138.58	180.00	-468.32	5,771.71	241.00	142.73	98,27	2.452		_
15,100.00	9,259.00	15,350.38	9,500.00	139.41	140.82	180.00	-468.41	5,871.71	241.00	141.25	99.75	2.416		•
15,200.00	9,259.00	15,450.38	9,500.00	,141.68	143.06	180.00	-468.50	5,971.71	241.00	139.78	101.22	2.381		

Anticollision Report

Company:

Matador Resources

Project:

Eddy County, NM

Reference Site:

Leatherneck Fed

Site Error: Reference Well: 0.00 usft

Well Error:

202H

Reference Wellbore

ОН

*Reference Design: Prelin

0.00 usft

Prelim Plan A

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method: Output errors are at

Database:

Offset TVD Reference:

Well 202H

Rig @ 3269.00usft (GL:3,240' + KB:29')

Rig @ 3269.00usft (GL:3,240' + KB:29')

Grid

Minimum Curvature 2.00 sigma

WellPlanner1

urvey Prog	ram: 0-M ¹	WD+HDGM											Offset Well Error:	0.00 us
Refer		Offse	et	Semi Major	Axis				Dista	nce			Oliset Wen Ellor.	0.00 0
leasured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbor +N/-S (usft)	e Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
15,400.00	9,259.00	15,650.38	9,500.00	146.21	147.55	180.00	-468.67	6,171.71	241.00	136.82	104.18	2.313		
15,500.00	9,259.00	15,750.38	9,500.00	148.48	149.80	180.00	-468.76	6,271.71	241.00	135.33	105.67	2.281	•	
15,600.00	9,259.00	15,850.38	9,500.00	150.75	152.05	180.00	-468.85	6,371.71	241.00	133.84	107.16	2.249		
15,700.00	9,259.00	15,950.38	9,500.00	153.02	154.30	180.00	-468.94	6,471.71	241.00	132.35	108.65	2.218		
15,800.00	9,259.00	16,050.38	9,500.00	155.29	156.55	180.00	-469.02	6,571.71	241.00	130.86	110.14	2.188		
15,900.00	9,259.00	16,150.38	9,500.00	157.57	158.81	180.00	-469.11	6,671.71	241.00	129.37	. 111.63	2.159		
16,000.00	9,259.00	16,250.38	9,500.00	159.84	161.06	180.00	-469.20	6,771.71	241.00	127.87	113.13	2.130		
16,100.00	9,259.00	16,350.38	9,500.00	162.12	163.32	180.00	-469.28	6,871.71	241.00	126.37	114.63	2.102		
16,200.00	9,259.00	16,450.38	9,500.00	164.39	165.58	180.00	-469.37	6,971.71	241.00	124.87	116.13	2.075		
16,300.00	9,259.00	16,550.38	9,500.00	166.67	167.84	180.00	-469.46	7,071.71	241.00	123.37	117.63	2.049		
16,400.00	9,259.00	16,650.38	9,500.00	168.95	170.10	180.00	-469.55	7,171.71	241.00	121.87	119.13	2.023		
16,500.00	9,259.00	16,750.38	9,500.00	171.22	172.36	180.00	-469.63	7,271.71	241.00	120.36	120.64	1.998		
16,600.00	9,259.00	16,850.38	9,500.00	173.50	174.63	180.00	-469.72	7,371.71	241.00	118.86	122.14	1.973		
16,700.00	9,259.00	16,950.38	9,500.00	175.78	176.89	180.00	-469.81	7,471.71	241.00	117.35	123.65	1.949		
16,800.00	9,259.00	17,050.38	9,500.00	178.06	179.16	180.00	-469.90	7,571.71	241.00	115.84	125.16	1.926		
16,900.00	9,259.00	17,150.38	9,500.00	180.34	181.42	180.00	-469.98	7,671.71	241.00	114.33	126.67	1.903		
17,000.00	9,259.00	17,250.38	9,500.00	182.63	183.69	180.00	-470.07	7,771.71	241.00	112.82	128.18	1.880		
17,100.00	9,259.00	17,350.38	9,500.00	184.91	185.96	180.00	-470.16	7,871.71	241.00	• 111.30	129.70	1.858		
17,200.00	9,259.00	17,450.38	9,500.00	187.19	188.23	180.00	-470.24	7,971.71	241.00	109.79	131.21	1.837		
17,233.95	9,259.00	17,484.33	9,500.00	187.97	189.00	180.00	-470.27	8,005.66	241.00	109.27	131.73	1.830		•
17,300.00	9,259.00	17,550.38	9,500.00	189.48	190.50	180.00	-470.33	8,071.71	241.00	108.27	132.73	1.816		
17,400.00	9,259.00	17,650.38	9,500.00	191.76	192.77	180.00	-470.42	8,171.71	241.00	106.75	134.25	1.795		
17,500.00	9,259.00	17,750.38	9,500.00	194.04	195.04	180.00	-470.51	8,271.71	241.00	105.23	135.77	1.775		
17,600.00	9,259.00	17,850.38	9,500.00	196.33	197.32	180.00	-470.59	8,371.71	241.00	103.71	137.29	1.755	,	
17,700.00	9,259.00	17,950.38	9,500.00	198.62	199.59	180.00	-470.68	8,471.71	241.00	102.19	138.81	1.736		•
17,800.00	9,259.00	18,050.38	9,500.00	200.90	201.87	180.00	-470.77	8,571.71	241.00	100.67	140.33	1,717		
17,900.00	9,259.00	18,150.38	9,500.00	203.19	204.14	180.00	-470.86	8,671.71	241.00	99.15	141.85	1.699		
18,000.00	9,259.00	18,250.38	9,500.00	205.48	206.42	180.00	-470.94	8,771.71	241.00	97.62	143.38	1.681	•	
18,100.00	9,259.00	18,350.38	9,500.00	207.76	208.69	180.00	-471.03	8,871.71	241.00	96.10	144.90	1.663		
18,200.00	9,259.00	18,450.38	9,500.00	210.05	210.97	180.00	-471.12	8,971.71	241.00	94.57	146.43	1.646		
18,300.00	9,259.00	18,550.38	9,500.00	212.34	213.25	180.00	-471.20	9,071.71	241.00	93.04	147.96	1.629	*	
18,400.00	9,259.00	18,650.38	9,500.00	214.63	215.53	180.00	-471.29	9,171.71	241.00	91.52	149.48	1.612		
18,500.00	9,259.00	18,750.38	9,500.00	216.92	217.81	180.00	-471.38	9,271.71	241.00	89.99	151.01	1.596		
18,600.00	9,259.00	18,850.38	9,500.00	219.21	220.09	180.00	-471.47	9,371.71	241.00	88.46	152.54	1.580		
18,700.00	9,259.00	18,950.38	9,500.00	221.50	222.37	180.00	-471.55	9,471.71	241.00	86.93	154.07	1.564		
18,800.00	9,259.00	19,050.38	9,500.00	223.79	224.65	180.00	-471.64	9,571.71	. 241.00	85.39	155.61	1.549		
18,900.00	9,259.00	19,150.38	9,500.00	226.08	226.93	180.00	-471.73	9,671.71	241.00	83.86	- 157.14	1.534		
19,000.00	9,259.00	19,250.38	9,500:00	228.37	229.21	.⁴180.00	-471.82	9,771.71	241.00	82.33	158.67	1.519	•	
19,100.00	9,259.00	19,350.38	9,500.00	230.66	231.50	180.00	-471.90	9,871.71	241.00	80.80	160.20	1.504		
19,200.00	9,259.00	19,450.38	9,500.00	232.95	233.78	180.00	-471.99	9,971.71	241.00	79.26	161.74	1.490 Le		
19,211.29	9,259.00	19,461.67	9,500.00	233.21	234.04	180.00	-472.00	9,983.00	241.00	79.09	161.91	1.488 Lev	/el 3, SF	

Anticollision Report

Company:

Matador Resources

Project:

Eddy County, NM

Reference Site:

Leatherneck Fed

Site Error: Reference Well: 0.00 usft

Well Error:

0.00 usft

Reference Wellbore Reference Design:

ОН

202H

Prelim Plan A

Local Co-ordinate Reference:

Well 202H

TVD Reference:

MD Reference:

Rig @ 3269.00usft (GL:3,240' + KB:29') Rig @ 3269.00usft (GL:3,240' + KB:29')

North Reference:

Survey Calculation Method:

Minimum Curvature 2.00 sigma

Output errors are at

Database:

WellPlanner1

Offset TVD Reference: Offset Datum

Reference Depths are relative to Rig @ 3269.00usft (GL:3,240' + KB:29

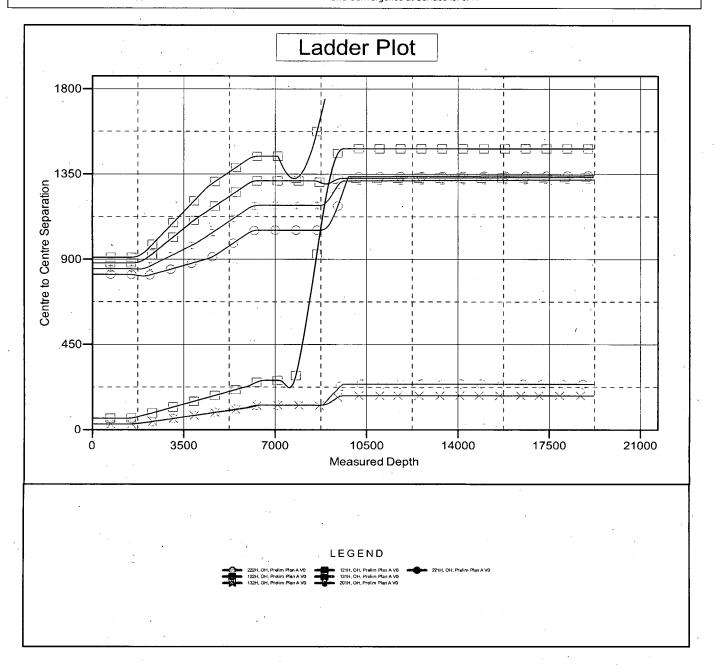
Offset Depths are relative to Offset Datum

Central Meridian is -104.3333333

Coordinates are relative to: 202H

Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30

Grid Convergence at Surface is: 0.11°



Anticollision Report

Company:

Matador Resources

Project: Reference Site: Eddy County, NM

Site Error:

Leatherneck Fed 0.00 usft

Reference Well: Well Error:

202H 0.00 usft

Reference Wellbore

Reference Design: Prelim Plan A Local Co-ordinate Reference:

Well 202H

TVD Reference:

MD Reference:

Rig @ 3269.00usft (GL:3,240' + KB:29') Rig @ 3269.00usft (GL:3,240' + KB:29')

North Reference:

Survey Calculation Method:

Minimum Curvature 2.00 sigma

Output errors are at

WellPlanner1

Database:

Offset TVD Reference:

Offset Datum

Reference Depths are relative to Rig @ 3269.00usft (GL:3,240' + KB:29

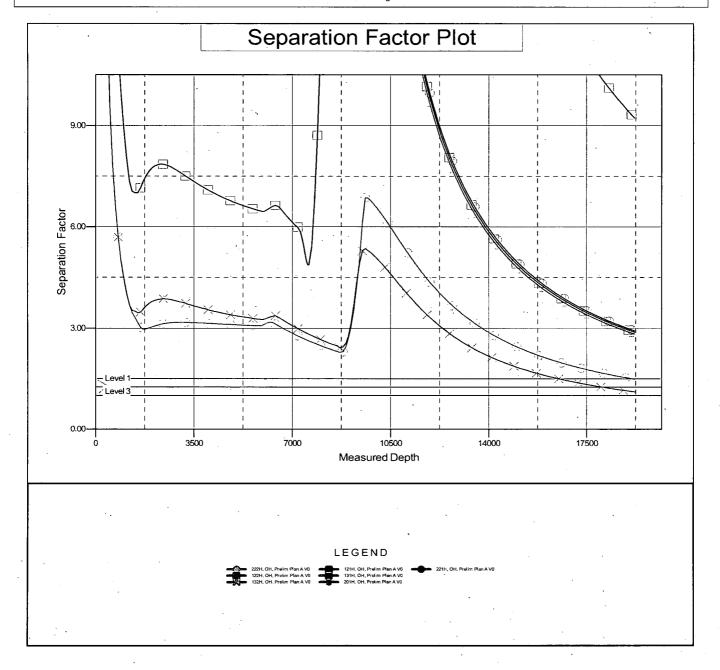
Offset Depths are relative to Offset Datum

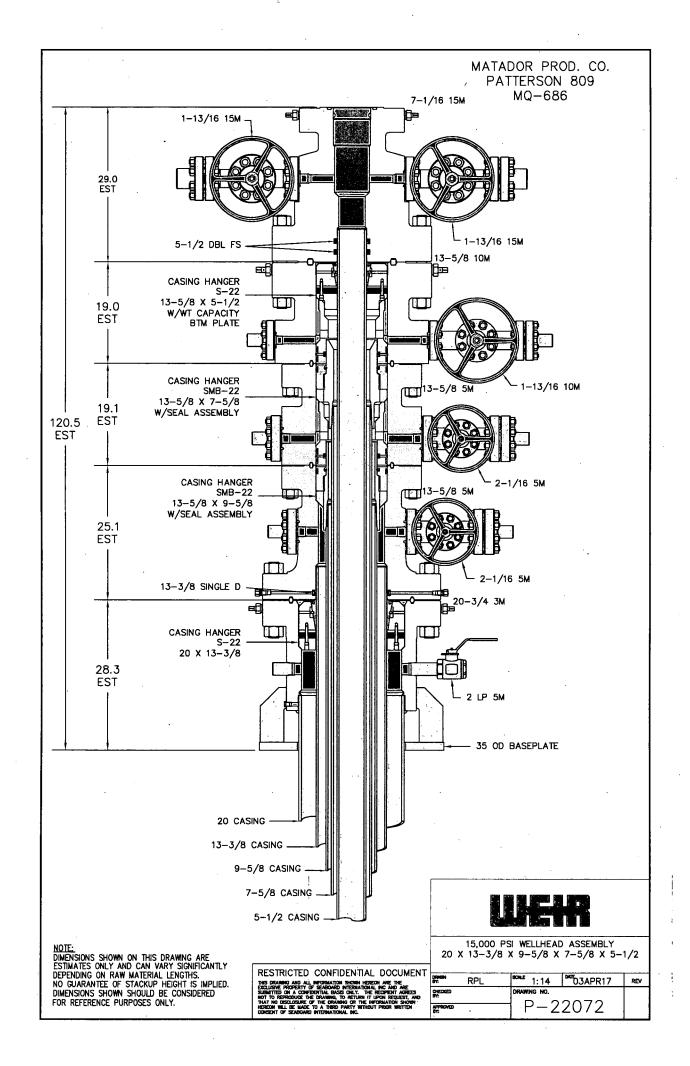
Central Meridian is -104.3333333

Coordinates are relative to: 202H

Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30

Grid Convergence at Surface is: 0.11°





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

Phone: (972) 371-5200

Fax: (972) 371-5201

PATRICK WALSH

MATADOR PRODUCTION COMPANY

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

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
	•	s	Sales Price	\$ 48,998.12
		C	Discount	\$ 0.00
			Misc Charges	\$ 0.00
		T	Total Tax1	\$ 3,797.35
		т	Total Amount	\$ 52,795.47

Additional Notes:

SEE HO-2754 FOR CONTINGENCY EQUIPMENT

SEE Q-856 FOR RENTAL DRILLING TOOLS



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
HO00002750	Net 30		1/13/2017	3/14/2017	TStavley	USD
COLine	Quantity	Item	Lead 7	Γime (Weeks)	Unit Price	Extended Price
1	1.00			6	\$9,151.51	\$9,151.51
	EA	ENG - MANUF				
,		A28748-001-UO		* * * * * * * * * * * * * * * * * * * *		
CAS	ING HEAD, S-2	22-R-8, 20 SOW X 20-3/4 3M, TWO 2	LP OUTLETS, 19	0.00 BORE, 35 OD BAS	SEPLATE, 6A-U-DE)-1-1
2	1.00	•		6	\$16.23	\$16.23
•	EA	066090-001				-
		BULL PLUG, XXH, 2 LP X 4 LG	, SOLID, 4130 601	ζ		
3	1.00			6	\$21.84	\$21.84
	EA	066226-000				
	,	NIPPLE, 2 LP X 6 LG, XXH				

VALVE, BALL, 25M, SE, 2LP, REDUCED PORT, NACE

CASING HEAD ASSEMBLY

064002-007

1.00

EA

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

\$111.75

\$111.75

Page 1 of 2



Confidential

Estimate	Terms	Customer Quote	Quote Date	Expiration Date	e Salesperson	Cust Curr
HO00002750	Net 30		1/13/2017	3/14/2017	TStavley	USD
				Customer Stamp / S	ignature:	
	Authorized Sig	gnature				



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

HO00002751	Net 30	1/13/	2017 3/14/2017	TStavley	USD
COLine	Quantity	ltem	Lead Time (Weeks)	Unit Price	Extended Price
1	1.00	······································	6	\$10,708.56	\$10,708.56
	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 SIN	NGLE IPS, (.995/1.000	•	
		GRV WIDTH), 6A-U-DD-1-2		•	
2	1.00		6	\$18.36	\$18.36
	EA ·	B10110-000			
		VALVE REMOVAL PLUG, 1-1/2 SHARP	VEE, SOLID		
3	2.00		6	\$105.47	\$210.94
	EA ·	495175-008.			
		FLANGE, COMPANION, 2-1/16 5M X 2 I	_P,		
		6A-LU-DD/EE-NL-2			
4	2.00		6	\$17.49	\$34.98
•	EA	066398-001			
		BULL PLUG, XXH, 2 LP X 4 LG, TAPPE	D 1/2 LP, 4130 75K		•
5	1.00	•	6	\$18.11	\$18.11
-	EA	A11245-001	-	******	******
		FITTING, BODY GREASE, 1/2 LP, CS		•	
. 6	1.00		6	\$622.70	\$622.70
	EA	564630-DB1		Ψ022.70	Ψ022.70
		VALVE, MODEL 510, 2-1/16 5M, FE, DD	-NL TRIM		
		6A-LU-DD-2-1-NL			•
. 7	3.00		6	\$5.10	\$15.30
	EA ·	050193-000		φυ	4.0.00
		RING GASKET, API R-24		•	
. 8	8.00		6	\$3.53	\$28.24
0	8.00 EA	345899-001	U	دد.ده	\$20.24
	LA	STUD W/TWO NUTS, 7/8 9UNC X 6-1/2	IG A103 R7 CAD	.*	
		PLATED .	ra, 1133 p.1, cựp		



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Éstimate	Terms	Customer Quote	Quote Date	Expiration Date	e Salesperson	Cust Curr
HO00002751	Net 30		1/13/2017	3/14/2017	TStavley	. USD
COLine	Quantity	Item	Lead T	ime (Weeks)	Unit Price	Extended Price.
9	1.00			6	\$101.39	\$101.39
•	EA	050156-000		•	• ,	
		RING GASKET, API R-74	4			•
10	20.00			6	\$49.27	\$985.40
	EA	A17635-001		•	•	
		STUD W/TWO NUTS, 2 8UN X 14-	1/2 LG, A193 B	, 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

Page 2 of 3



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Estimate	Terms Customer Quote	Quote Date	Expiration Dat	e Salesperson	Cust Curr
HO00002751	Net 30	1/13/2017	3/14/2017	TStavley	USD
			Customer Stamp / S	ignature:	
•	Authorized Signature				



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

Warehouse:

5400 Lbj Fwy Ste 1500

ONE LINCOLN CENTER

ODES

MATADOR PRODUCTION COMPANY

Customer: MA02100

PATRICK WALSH

MATADOR PRODUCTION COMPANY

5400 Lbj Fwy Ste 1500 ONE LINCOLN CENTER

Dallas TX 75240-1017

USA

Dallas TX 75240-1017 USA

Phone: (972) 371-5200 **Fax:** (972) 371-5201

IO00002752	Net 30		1/13/2017	3/14/2017	TStavley	USD
COLine	Quantity	Item	Unit Price	Extended Price		
1	1.00			6	\$4,791.42	\$4,791.42
	EA	A31520-001				
		CASING SPOOL, SMB-22-R-8, 1	13-5/8 5M STD BTN	A.X 13-5/8		*
		5M FLG TOP, TWO 2-1/16 5M S	TD OUTLETS, W/2	2-1/16 VRP,		
		6A-PU-DD-1-2				· ·
2	1.00	•		6	\$18.36	\$18.36
	EA	B10110-000		1		
		VALVE REMOVAL PLUG, 1-1/2	2 SHARP VEE, SOI	LID	•	
3	2.00			6	\$105.47	\$210.94
	EA	495175-008				
		FLANGE, COMPANION, 2-1/16	5M X 2 LP,			
		6A-LU-DD/EE-NL-2				
4	2.00			6	\$17.49	\$34.98
	EA	066398-001				
		BULL PLUG, XXH, 2 LP X 4 LG	i, TAPPED 1/2 LP,	4130 75K		
. 5	1.00			6	\$18.11	\$18.11
	EA	A11245-001			•	
		FITTING, BODY GREASE, 1/2 I	.P; CS			
. 6	1.00	•	· ·	6	- \$622.70	\$622.70
	EA	564630-DB1		•	4 0	
		VALVE, MODEL 510, 2-1/16 5M	I. FE. DD-NL TRIM	ī.		
		6A-LU-DD-2-1-NL	-,,			
. 7	3.00			6	\$5.10	\$15.30
	EA	050193-000	•		•••	• • • • • • • • • • • • • • • • • • • •
		RING GASKET, API R-24		•		
8	8.00	- 		6	. \$3.53	\$28.24
0	EA.	345899-001		U	· φ3.33	\$20.24
	LIT.	STUD W/TWO NUTS, 7/8 9UNC	Y 6-1/2 I G A 102	R7 CAD		
•		PLATED	A 0-1/2 LU, A193	UI, CAD		



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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 T	ime (Weeks)	Unit Price	Extended Price
. • 9	1.00			6	\$40.90	\$40.90
e de la companya de l	EA	050462-000 RING GASKET, API BX-160				
10	16.00		٠ ,	6	\$38.80	. \$620.80
,	EA	B14050-000	•		,	
. •		STUD W/TWO NUTS, 1-5/8 8UN	X 12-3/4 LG, A19	3 B7, CAD	•	•
*		PLATED	•	•		
11	1.00			6	\$858.94	\$858.94
:	EA	A18106-007				•
		CASING HANGER, SMB-22, 13-5	/8 NOM, 9-5/8 BO	BOX BTM	•	
		X 10.500-4 STUB ACME-2G-LH I	IN TOP, 9.62 OD	SLICK		
		NECK, 8.81 BORE, 6A-LU-DD-2-	1, GP1	4		
12	1.00			6	\$1,481.50	\$1,481.50
	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 ST	TUB ACME PIN T	OP,		•
•		6A-U-DD-1-1		ş.	۲,	
CASI	NG SPOOL AS	SSEMBLY		*		

8,742.19 Sale Amount: Order Disc (0.00%): 0.00 Sales Tax: 677.50 Misc Charges: 0.00 Total Amount: \$9,419.69 Page 2 of 3



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HO00002752 Net 30	1/13/2017	3/14/2017	TStavley	ÚSD
	[Customer Stamp / S	ignature:	



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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
HO00002753	Net 30		1/13/2017	3/14/2017	TStavley	USD
COLine	Quantity	Item	· Lead T	ime (Weeks)	Unit Price	Extended Price
1	1.00			6	\$6,337.17	\$6,337.17
	EA	A33506-001				
		TUBING HEAD, S-8, 13-5/8 5N				
		10M STD OUTLETS, 1-13/16 V				
		PREP (.835/.850 GRV WIDTH)		HSS	•	•
		LOCKSCREWS, 6A-PU-EE-0.5	5-2-2			
2	1.00			6	\$23.71	\$23.7
	EA	455635-000			٠.	
•		VALVE REMOVAL PLUG, I-	1/4 LP, SOLID		٠.	
3	2.00	-		6	\$103.74	\$207.4
	EA	495700-005				
	1	FLANGE, COMPANION, 1-13/	/16 10M X 2 LP, F/5N	M SERVICE,		
•	,	6A-LU-EE-NL-2	•			
4	1.00			6	\$1,438.40	\$1,438.4
	EA	346874-DB2				
	•	VALVE, MODEL 1745, 1-13/16		,		
		6A-LU-EE-0.5-2-1, MONOGRA	AMMED		****	00<10
. 5	1.00			6	\$361.93	\$361.93
	EA .	A29180-100	. C V 2 EIC 1602 EE			•
		ADAPTER, FH, 1-13/16 10M F	•			•
		F/10M SERVICE, 5.00 LG, C/W				
	2.00	SUB & SNAP RING, TAPPED	1/2 LP, 0A-U-DD-1-		\$1,438.40	¢2 076 0
. 6	2.00	246974 DD2		6 · .	\$1,438.40	\$2,876.8
	EA	346874-DB2	CIOM EE EE TRIM	•		
		VALVE, MODEL 1745, 1-13/10		•		
	1.00	6A-LU-EE-0.5-2-1, MONOGRA	AMMED	6	\$372.00	\$372.0
	1.00	A 20180 100		6	\$3/2.00	. \$3/2.0
	EA	A29180-100	I C V 1 BIC 1501 BB	MALE		:
		ADAPTER, FH, 1-13/16 10M F			٠	
		F/10M SERVICE, 5.00 LG, C/V	V HAMMEK NUI, B	LIND MALE		

SUB & SNAP RING, TAPPED 1/2 LP, 6A-U-DD-1-1



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Estimate	Terms	Customer Quote	Quote Date	Expiration Dat	e Salesperson	Cust Curr
HO00002753	Net 30		1/13/2017	3/14/2017	TStavley	· USD
COLine	Quantity	Item	Lead 7	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 10UN	NC X 5-1/2 LG, A19	3 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 8U	N X 12-3/4 LG, A19	93 B7, CAD		
		PLATED			•	
12	1.00		•	6	\$1,199.02	\$1,199.02
	EA	A20385-011			•	
		CASING HANGER, S-22, 13-5/8				
	-	CAPACITY BOTTOM PLATE,	F/USE IN SMB-22	SUPPORT		
13	1.00	BUSHING			. 60.00	\$0.00
. 13	EA .	SA-H-TH-SSO			\$0.00	\$0.00
	LA .	TUBING HEAD, STUDDED SII	DE 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
	Page 2 of 3



Confidential

Estimate	Terms Cust	omer Quote Date	Expiration Date	Salesperson	Cust Curr
HO00002753	Net 30	1/13/2017	3/14/2017	TStavley	USD
-		,	Customer Stamp / Sig	nature:	
					•
	Authorized Signatur	_ e			



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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

HO00002754	Net 30 .	1/1	3/2017	3/14/2017	TStavley	USD	
COLine	Quantity	Item	Lead Time	e (Weeks)	Unit Price	Extended Price	
1	1.00	:		6	\$1,132.44	\$1,132.44	
	EA	398530-000					
		CASING HANGER, S-21, 13-5/8 X 9-5/8	8				
2	1.00	:		6	\$2,663.23	\$2,663.23	
	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					

 Sale Amount:
 3,795.67

 Order Disc (0.00%):
 0.00

 Sales Tax:
 294.16

 Misc Charges:
 0.00

Total Amount: \$4,089.83

Page 1 of 2



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Estimate	Terms	Custo	mer Quote	Quote Date	Expiration Date	Salesperson	Cust Curr
HO00002754	Net 30			1/13/2017	3/14/2017	TStavley	USD
					Customer Stamp / Sig	nature:	
							. •
							3.
	Aut	horized Signature	-	•			

Service Order Estimate

1/13/2017 2:22:59PM



Confidential

Oomaenta		•	
Seaboard International Inc SRO:	Q0000008	356	
P.O. Box 450989 Estimate Date:	01/13/201	7	
Houston TX 77245-0989 Valid Thru:			
Warehouse:	ODES		
Customer PO:			
AFE#:			
Bill To: MA02100 Ship To: 0			
MATADOR PRODUCTION COMPANY. MATADOR PRODUCTION COMPANY	7		riago de Agri
5400 Lbj Fwy Ste 1500 5400 Lbj Fwy Ste 1500	. *		
ONE LINCOLN CENTER 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
			1,015.00

REi	NTAL BASED	OON A PER WELL BASIS
FLAT	RATE RENT	AL 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

Seaboard International Inc

ACME BOX X 10.50 LH 4TPI STUB ACME PIN, 7.00 LG, 9.00 MIN BORE

0.00
0.00
1,015.00
0.00
0.00
0.00
0.00
0.00
1,015.00
0.00
1,015.00
Page 1 of

SEAUS SGuerra

Service Order Estimate

1/13/2017 2:22:59PM



Confidential

Seaboard International Inc SRO: Q000000856 P.O. Box 450989 **Estimate Date:** 01/13/2017 Houston TX 77245-0989 Valid Thru: Warehouse: **Customer PO:** AFE #: Bill To: MA02100 MATADOR PRODUCTION COMPANY MATADOR PRODUCTION COMPANY 5400 Lbj Fwy Ste 1500 5400 Lbj Fwy Ste 1500 ONE LINCOLN CENTER ONE LÍNCOLN CENTER Dallas TX 75240-1017 Dallas TX 75240-1017

Customer Stamp / Signature:								
., .								
	*							
		. `						

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

- 1. <u>Applicable Terms</u>. 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") purchase order, quotation, proposal, invoice or acknowledgment, as the case may be ("Company") burchase order, quotation, proposal, invoice or acknowledgment, as the case may be ("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 unneigh. All order as a whise to rentife unprovide.
- due but unpaid. All orders are subject to credit approval.

 3. <u>Delivery.</u> 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 FO.B. Company's facility.
- FO.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 ficense to use any such material sofely 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"). 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 products 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) Resule Customer agrees that in the event of any resule 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 attoriety's fees and expenses, resulting from a breach of this duty, (e) Used products All used products sold "his 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 de
- 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 enveragement or any other cause beyond such part's reasonable control.
- 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
- 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 restant 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 uside 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 self, 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,

Applicable Terms. These terms govern the purchase and sale and/or rental of the equipment and officers, directors, employees, agents, consultants; servants, and insurers of all of the services, if any (collectively, "Equipment"), referred to in Seaboard International Inc. dba Weir 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, crattering 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. <u>LIMITATION OF LIABILITY</u>. 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. <u>Governing Law:</u> 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		тп	_E		-			
		APPLICATION TO:		International.	Inc. dba	ı Weir	Seaboa			

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	2989	2975	hydrocarbons
Brushy Canyon sandstone	4140	4127	hydrocarbons
Bone Spring limestone	5693	5672	hydrocarbons
Upper Avalon Shale	5962	5940	hydrocarbons
Avalon Carbonate	.6144	6120	hydrocarbons
Lower Avalon Shale	6297	6273	hydrocarbons
1 st Bone Spring carbonate	6377	6354	hydrocarbons
1 st Bone Spring sandstone	6855	6831	hydrocarbons
2 nd Bone Spring carbonate	7047	· 7023	hydrocarbons
2 nd Bone Spring sandstone	7470	7447	hydrocarbons
3 rd Bone Spring carbonate	7843	7819	hydrocarbons
3 rd Bone Spring sandstone	8679	8655	hydrocarbons
(KOP	8704	8682	hydrocarbons)
Wolfcamp A (goal)	9138	9085	hydrocarbons
TD	19211	9259	

2. NOTABLE ZONES

Wolfcamp A 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

A 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. Also present will be an accumulator that meets the requirements of Onshore Order #2 for the pressure rating of the BOP stack. A rotating head will also be installed as needed. Pressure tests will be conducted prior to drilling out under all casing strings. BOP will be inspected and operated as recommended in Onshore Order #2. A 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.

Test pressures will be as follows: On the intermediate 1 casing, pressure tests will be made to 250 psi low and 2000 psi high. On the intermediate 2 casing, pressure tests will be made to 250 psi low and 3000 psi high. On the intermediate 3 casing, pressure tests will be made to 250 psi low and 7500 psi high. The annular preventer will be tested to 250 psi low and 2500 psi high on the intermediate 1, 2 and 3 casing. In the case of running a speed head with landing mandrel for 9-5/8" and 7-5/8" x 7" casing the initial intermediate 1 casing test pressures will be 250 psi low and 3000 psi high with wellhead seals tested to 5000 psi once the 9-5/8" casing has been landed and cemented. The BOP will then be lifted to install the 'D-section' of the wellhead. We will nipple the BOP back up and the pressure tests will be made to 250 psi low and 7500 psi high and the annular will be tested to 250 psi low and 2500 psi high.

Variance Requests

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 with landing mandrel for 9-5/8" and 7-5/8" x 7" casing. 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.	Casing O. D.	Set MD	Set TVD	Weight (lb/ft)	Grade	Joint	Collapse	Burst	Tension
26"	20″ surface	0 - 400	0 - 400	94	J-55	втс	1.125	1.125	1.8
17.5"	13.375" inter. 1	0 - 1200.	0 - 1200	54.5	J-55	втс	1.125	1.125	1.8
12.25"	9.625" inter. 2	0 - 3100	0 - 3094	40	J-55	втс	1.125	1.125	1.8
· ·	7.625" inter. 3	0 - 1200	0 - 1175	29.7	P-110	втс	1.125	1.125	1.8
8.75"	7.625" inter. 3	1200 - 8654	1175 - 8578	29.7	P-110	HTF-NR			
	7" \inter. 3	8654 - 9450	8578 - 9236	29	P-110	втс			
	5.5" prod.	0 - 8554	0 - 8478	20	P-110	Tenaris XP		`.	
6.125″	4.5" prod.	8554 - 19211	8478 - 9259	13.5	P-110	Teņaris XP	1.125	1.125	1.8



Name	Туре	Sacks	Yield	Cu. Ft.	Weight	Blend
Surface	Lead	892	1.35	1204	14.8	Class C + 5% NaCl + LCM
TOC = 0'		1	00% Exces	SS	Centra	lizers per Onshore Order 2.III.B.1f
Intermediate 1	Lead	619	1.78	1102	13.5	Class C + Bentonite + 1% CaCL2 + 8% NaCl + LCM
	Tail	309	1.35	417	14.8	Class C + 5% NaCl + LCM
TOC = 0'		100% Excess			2 on b	tm 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 surface	
Intermediate	Lead	593	2.36	1399	11.5	TXI + Fluid Loss + Dispersant + Retarder + LCM
3	Tail 376 1.38 519		13.2	TXI + Fluid Loss + Dispersant + Retarder + LCM		
	,				2 on btr	m jt, 1 on 2nd jt, 1 every other jt to
TOC = 117	5'	3	5% Exces	s ·	top o	f tail cement (500' above TOC), 1
				-		every 4th jt to surface
Production	Tail	808	1.38	1115	15.8	Class H + Fluid Loss + Dispersant + Retarder + LCM
TOC = 8450'		10% Excess			2 on btm jt, 1 on 2nd jt, 1 every 4th jt to top of tail cement (1000' tie back)	

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

Stage 2:

	Duge 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.

Casing	Туре	Interval (MD)	lb/gal	Viscosity	Fluid Loss
Surface .	fresh water spud	0 - 400	8.4	28	NC
Inter. 1	brine water	400 - 1200	10.0	30-32	NC .
Inter. 2	fresh water	1200 - 3100	8.4-8.6	28-30	NC
Inter. 3	FW/Cut Brine	3100 - 9450	9.0	30-32	NC
Production	ОВМ	9450 - 19211	12.50	50-60	<10

6. CORES, TESTS, & LOGS

No core or drill stem test is planned.

A 2-person mud logging program will be used from ≈1,200' 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 ≈6,015 psi. Expected bottom hole temperature is ≈170° F.

In accordance with Onshore Order 6, Matador does not anticipate that there will be enough H₂S from the surface to the Bone Spring to meet the BLM's minimum requirements for the submission of an "H₂S Drilling Operation Plan" or "Public Protection Plan" for drilling and completing this well. Since Matador has an H₂S safety package on all wells, an "H₂S Drilling Operations Plan" is attached. Adequate flare lines will be installed off the mud/gas separator where gas 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:

21008111							
Lead	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:

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

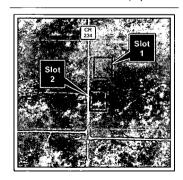
Leatherneck Well Pads

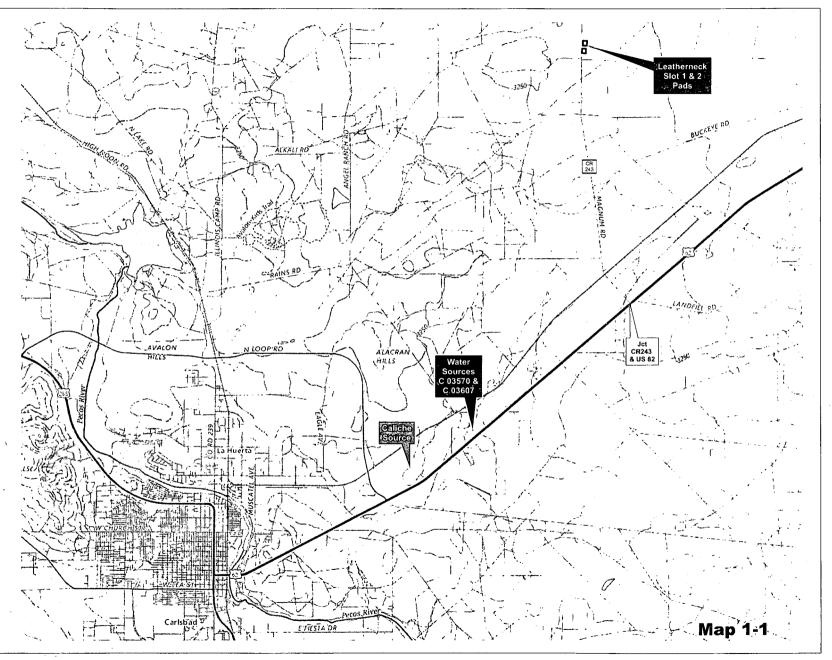
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NAD 1983 New Mexico State Plane East FIPS 3001 Feet

PERMYTS WEST ..

Prepared by Permits West, Inc., May 2, 20 for Matador Production Company





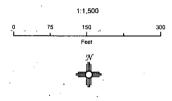
Matador Production Company

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

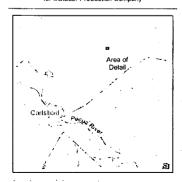
Matador Lease Line

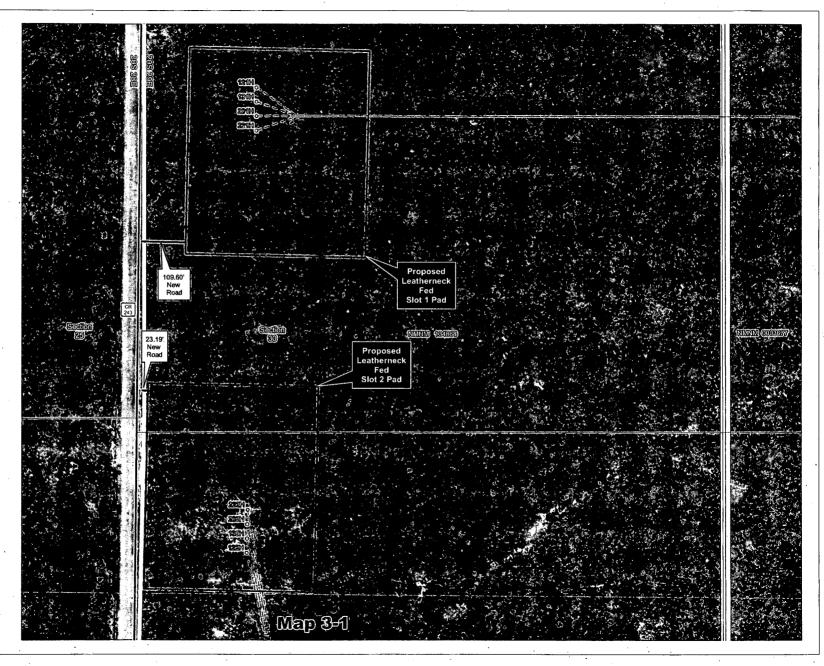


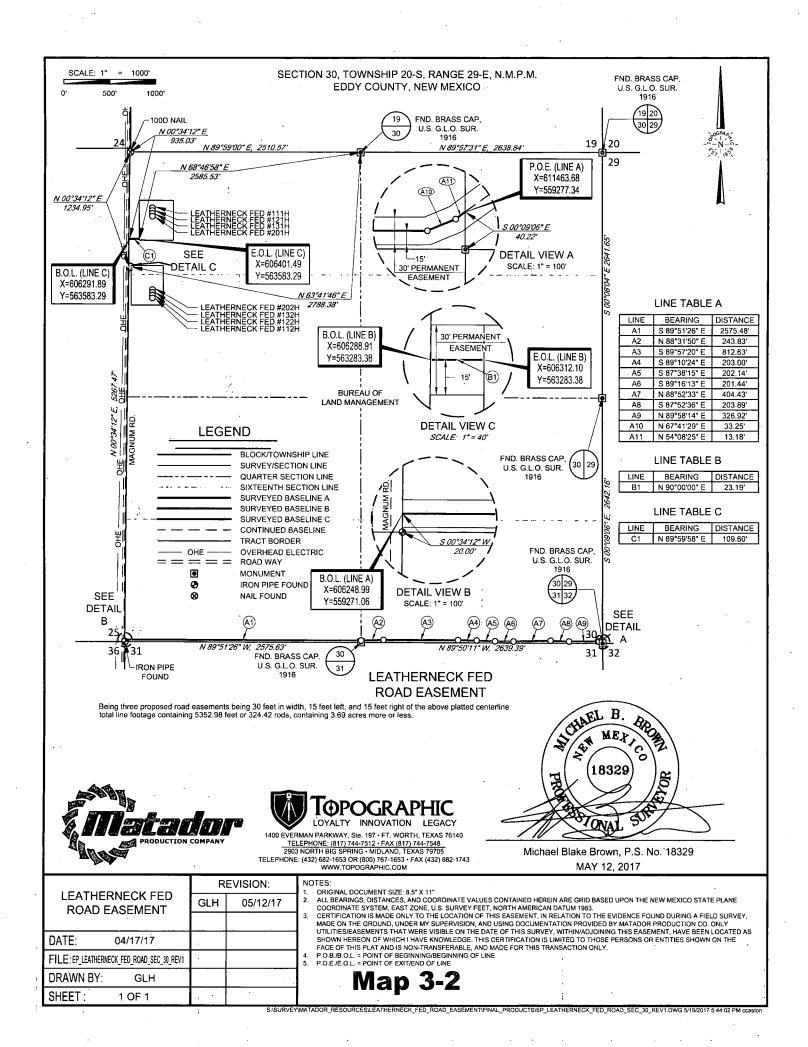
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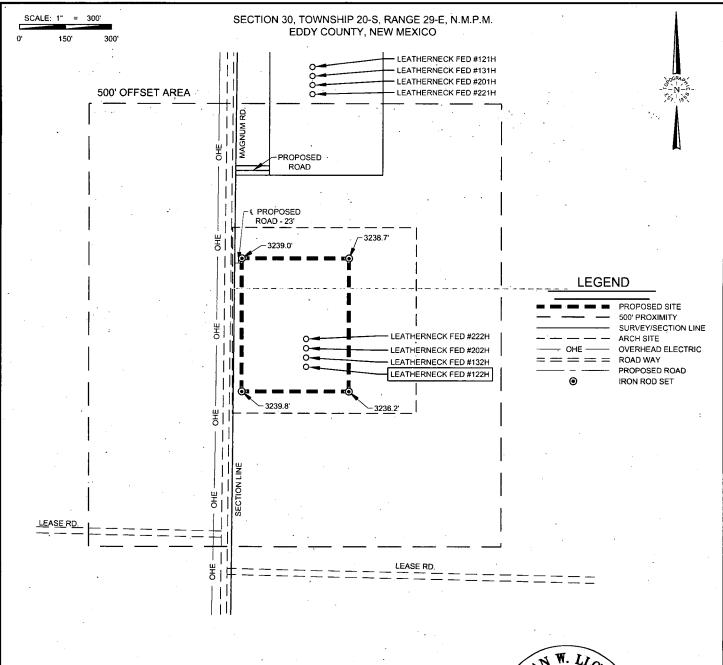
PERMYTS WEST ...

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













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2903 NORTH BIG SPRING - MIDLAND, TEXAS 79705

TELEPHONE: (432) 682-1653 OR (800) 767-1653 - FAX (432) 682-1743

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

	REVISION:				
LEATHERNECK FED #122H PROXIMITY	GLH	05/11/17	1		
	GLH	05/17/17	1		
DATE: 04/14/17	· EAH	09/05/17			
FILE:LO_LEATHERNECK_FED_122H_REV4	MML	. 09/25/17			
DRAWN BY: MML			ľ		
SHEET: 7 OF 7					

ORIGINAL DOCUMENT SIZE: 8.5" X 11"

ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREIN ARE GRID BASED UPON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, U.S. SURVEY FEET, NORTH AMERICAN DATUM 190 THE EVIDENCE FOUND DURING A FIELD SURVEY, CERTIFICATION IS MADE ONLY TO THE LOCATION OF THIS EASEMENT, IN RELATION 190 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, WITHINIADJOINING THE SEASEMENT, 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.

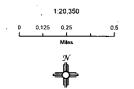
Map 3-3

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

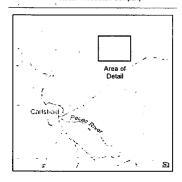
 ∇ Bottom Hole Location
 Matador Lease Line
 BLM Surface
 State Surface

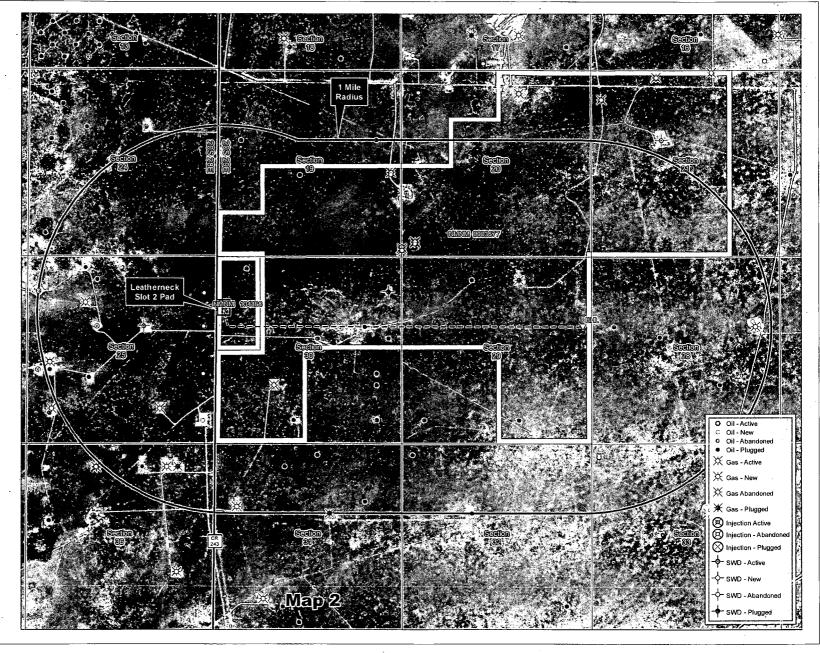


NAD 1983 New Mexico State Plane East FIPS 3001 Feet

PERMITS WEST ...

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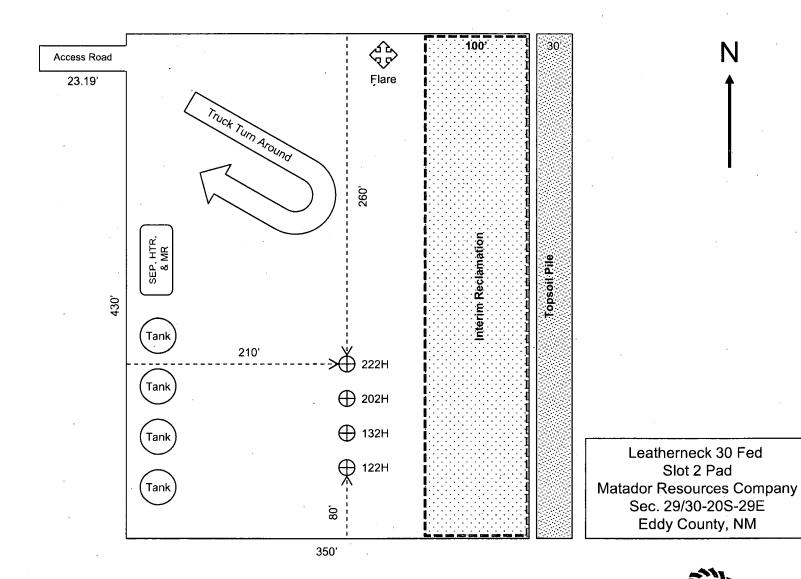




Figure 1

Leatherneck Fed Water & Gravel Source Map

Eddy County, New Mexico

Leatherneck Well Pads

1:65,000

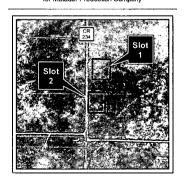
0 0.5 1 2

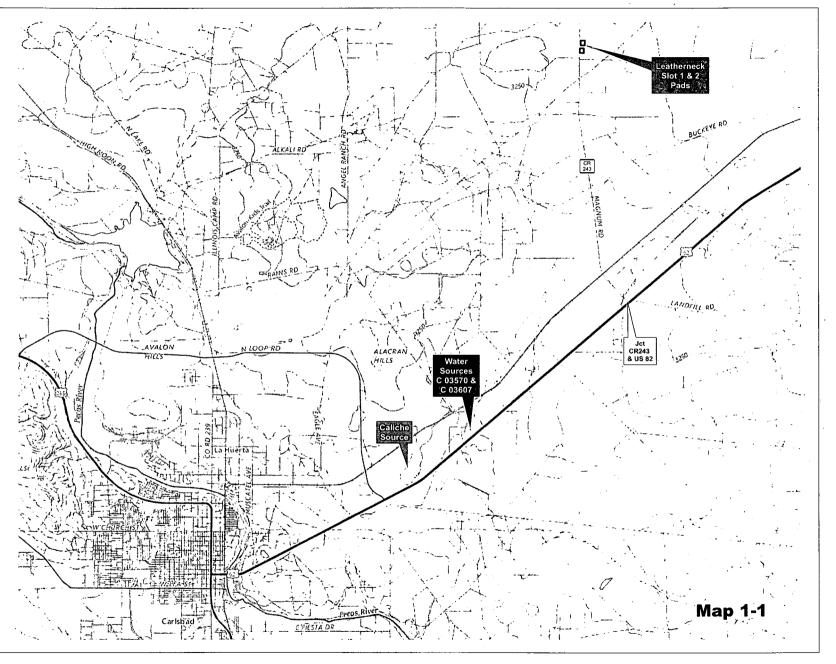
Miles

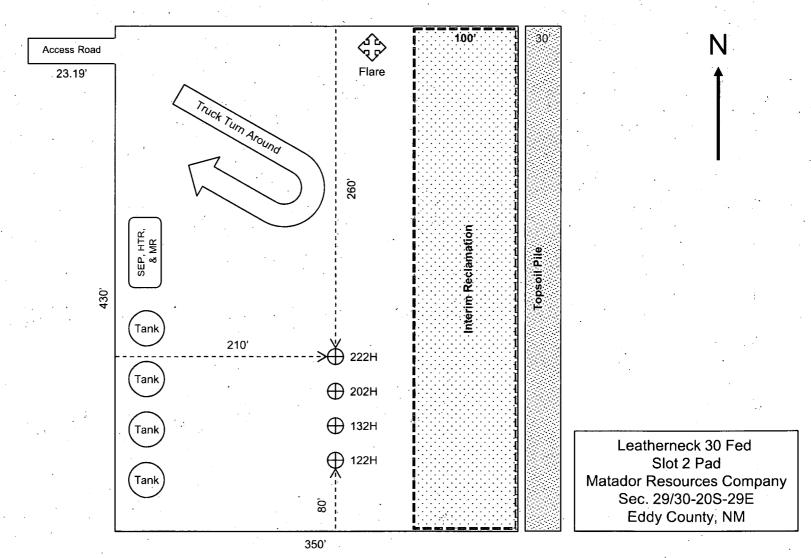
NAD 1983 New Mexico State Plane East FIPS 3001 Feet

PERWYTS WEST ...

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









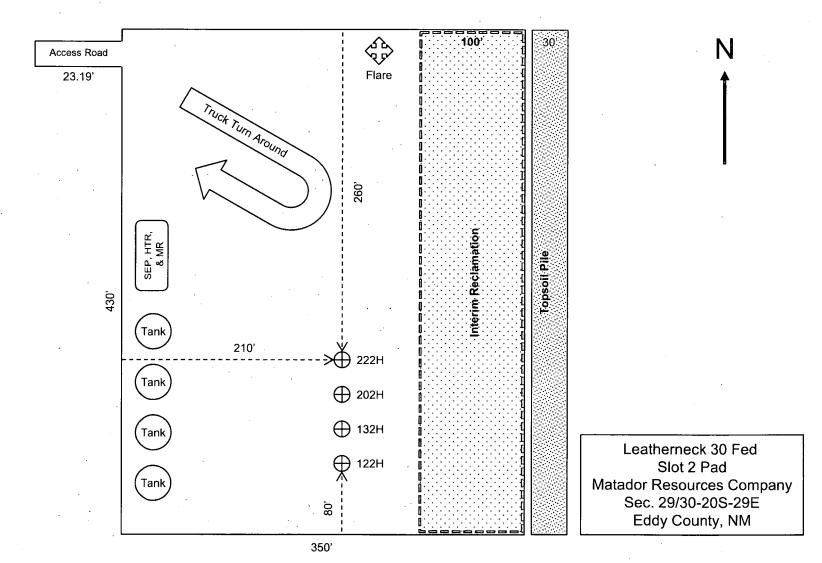




Figure 1

Rig Diagram

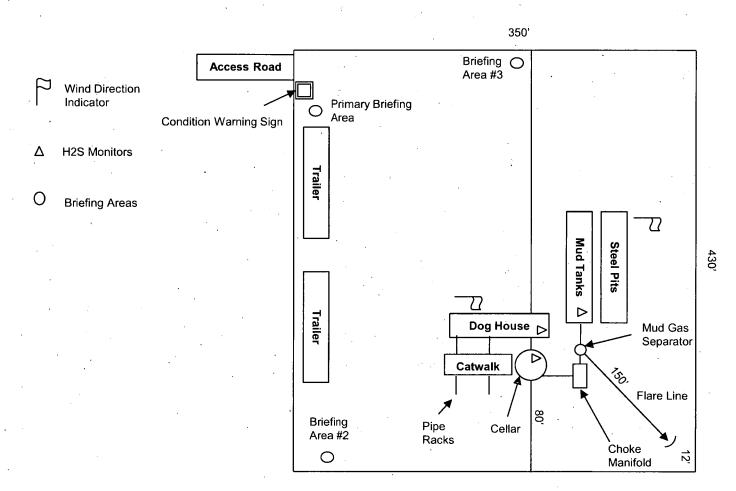




Figure 3: Rig Diagram
Leatherneck Fed Com Slot 2
Matador Resources Company
29/30-20S-29E
Eddy County, NM



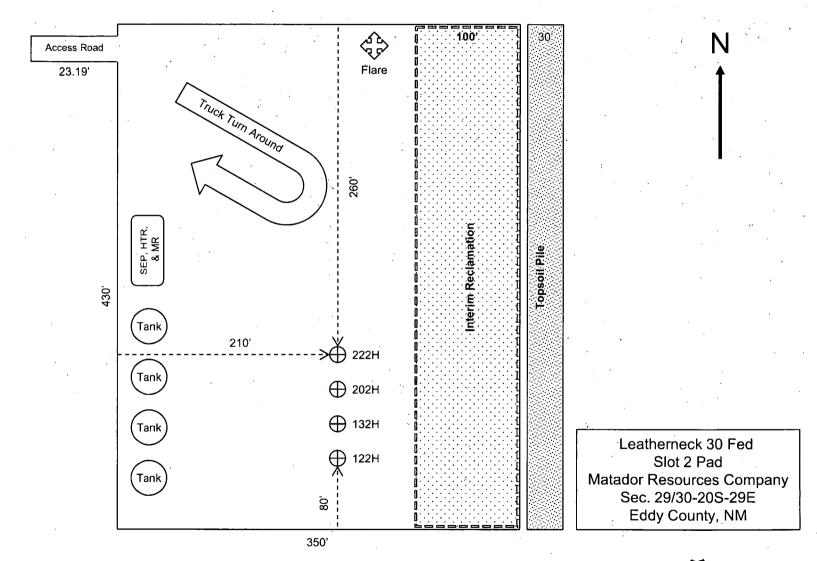




Figure 1

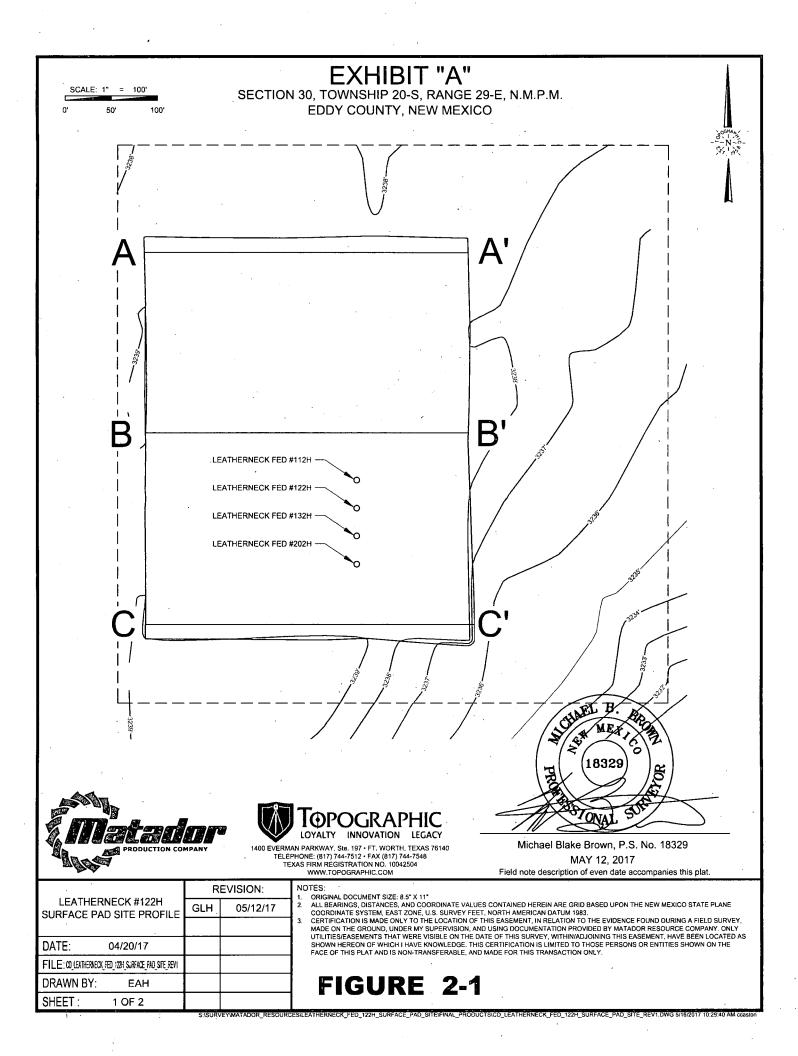


EXHIBIT "A"

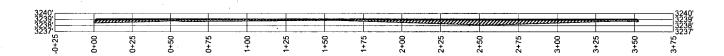
SECTION 30, TOWNSHIP 20-S, RANGE 29-E, N.M.P.M. **EDDY COUNTY, NEW MEXICO**



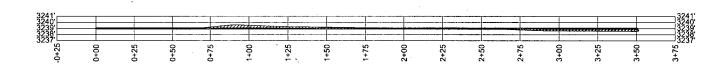
TOP OF PAD ELEVATION: 3238.9839 CUT SLOPE: 33.33% 3.000:1 18.43° FILL SLOPE: 33.33% 3.000:1 18.43° BALANCE TOLERANCE (C.Y.): 0.00 **CUT SWELL FACTOR: 1.00** FILL SHRINK FACTOR: 1.00

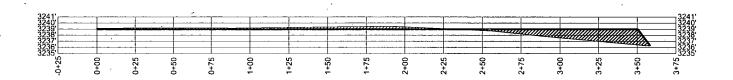
PAD EARTHWORK VOLUMES CUT: 36,498.9 C.F., 1,351.81 C.Y. FILL: 36,498.9 C.F., 1,351.81 C.Y. AREA: 153435.5 SQ.FT., 3.522 ACRES





B-B'







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

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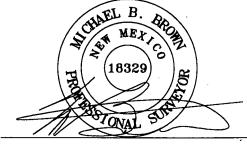
LEATHERNECK #122H SURFACE PAD SITE PROFILE	REVISION:		Ľ	
	GLH	05/12/17] :	
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DATE: 04/20/17				
FILE: CO LEATHERNECK FED 122H SURFACE PAD SITE REVI			1	
DRAWN BY: EAH				
SHEET: 2 OF 2				

ORIGINAL DOCUMENT SIZE: 8.5" X 11"

ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREIN ARE GRID
BASED UPON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, U.S. SURVEY FEET, NORTH AMERICAN DATUM 1983.

CERTIFICATION IS MADE ONLY TO THE LOCATION OF THIS EASEMENT, IN RELATION TO THE EVIDENCE FOUND DURING A FIELD SURVEY, MADE ON THE GROUND, UNDER MY SUPERVISION, AND USING DOCUMENTATION PROVIDED BY MATADOR RESOURCE COMPANY. ONLY UTILITIES/EASEMENTS THAT WERE VISIBLE ON THE DATE OF THIS SURVEY, WITHIN/ADJOINING THIS EASEMENT, HAVE BEEN LOCATED AS SHOWN HEREON OF WHICH I HAVE KNOWLEDGE. THIS CERTIFICATION IS LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE, AND MADE FOR THIS TRANSACTION ONLY.

FIGURE 2-2



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

Field note description of even date accompanies this plat.

S.ISURVEY:MATADOR_RESOURCESILEATHERNECK_FED_122H_SURFACE_PAD_SITE\FINAL_PRODUCTSICD_LEATHERNECK_FED_122H_SURFACE_PAD_SITE_REV1.DWG 5/16/2017 10:29:45 AM coaston

Matador Production Company Leatherneck Fed Com 202H SHL 1510' FNL & 236' FWL Sec. 30 BHL 1981' FSL & 240' FWL Sec. 29 T. 20 S., R. 29 E., Eddy County, NM

Surface Use Plan

1. ROAD DIRECTIONS & DESCRIPTIONS (See MAPS 1 & 3)

From the junction of US 62/180 and Eddy County Road 243.....
Go North 4.4 miles on paved US 62/180 to the equivalent of Mile Post 44.15
Then turn left and go North 5.8 miles on paved County Road 243 (Magnum Road)
Then turn right and go East 23.19' on a new road to the proposed pad

Non-county roads will be maintained as needed to Gold Book standards. This includes pulling ditches, preserving the crown, and cleaning culverts. This will be done at least once a year, and more often as needed. Caliche will be hauled from Constructors, Inc. existing pits on private land in NWNE 34-21s-27e and S2 13-22s-26e.

2. ROAD TO BE BUILT OR UPGRADED (See MAP 3)

Approximately 23.19' of new road will be built. The 23.19' of new road will be crowned and ditched, have a 14' wide driving surface, and be surfaced with caliche. Maximum disturbed width = 30'. Maximum grade = 1%. Maximum cut or fill = 1'. No culvert, cattle guard, or vehicle turn out is needed.

3. EXISTING WELLS (See MAP 2)

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

4. PROPOSED PRODUCTION FACILITIES (See FIGURE 1)

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

5. WATER SUPPLY (See MAP 1)

Water will be trucked from two water wells (C 03570 and C 03607) on private land in NENENE and SENENE 24-21s-27e.



Matador Production Company Leatherneck Fed Com 202H SHL 1510' FNL & 236' FWL Sec. 30 BHL 1981' FSL & 240' FWL Sec. 29 T. 20 S., R. 29 E., Eddy County, NM

6. CONSTRUCTION MATERIALS & METHODS (see FIGURES 1, 2, & 3)

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.

7. WASTE DISPOSAL

All trash will be placed in a portable trash cage. It will be hauled to the Eddy County landfill. There will be no trash burning. Contents (drill cuttings, mud, salts, and other chemicals) of the mud tanks will be hauled to CRI's state approved (NM-01-0006) disposal site. Human waste will be disposed of in chemical toilets and hauled to the Carlsbad wastewater treatment plant.

8. ANCILLARY FACILITIES

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

9. WELL SITE LAYOUT

See <u>Figures 1 & 2</u> for depictions of the well pad, trash cage, and access onto the location, parking, living facilities, and rig orientation.



Matador Production Company Leatherneck Fed Com 202H SHL 1510' FNL & 236' FWL Sec. 30 BHL 1981' FSL & 240' FWL Sec. 29 T. 20 S., R. 29 E., Eddy County, NM

10. <u>RECLAMATION</u> (FIGURES 1 & 3)

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. 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.

Disturbance:

30' x 23.19' road = 0.016 acres + 350' x 430' pad = 3.46 acres 3.48 acres short term -0.99 acres interim reclamation 2.49 acres long term

11. SURFACE OWNER (MAP 2)

All construction will be on BLM.

12. OTHER 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.



Matador Production Company Leatherneck Fed Com 202H SHL 1510' FNL & 236' FWL Sec. 30 BHL 1981' FSL & 240' FWL Sec. 29 T. 20 S., R. 29 E., Eddy County, NM

CERTIFICATION

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U. S. C. 1001 for the filing of false statements. Executed this 1st day of May, 2018.

Mike Deutsch, Consultant Permits West, Inc. 37 Verano Loop, Santa Fe, NM 87508 (505) 466-8120

Field representative will be:

Sam Pryor, Senior Staff Landman Matador Production Company 5400 LBJ Freeway, Suite 1500 Dallas TX 75240

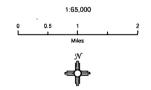
Phone: (972) 371-5241 FAX: (214) 866-4841



Leatherneck Fed Water & Gravel Source Map

Eddy County, New Mexico

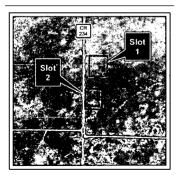
Leatherneck Well Pads

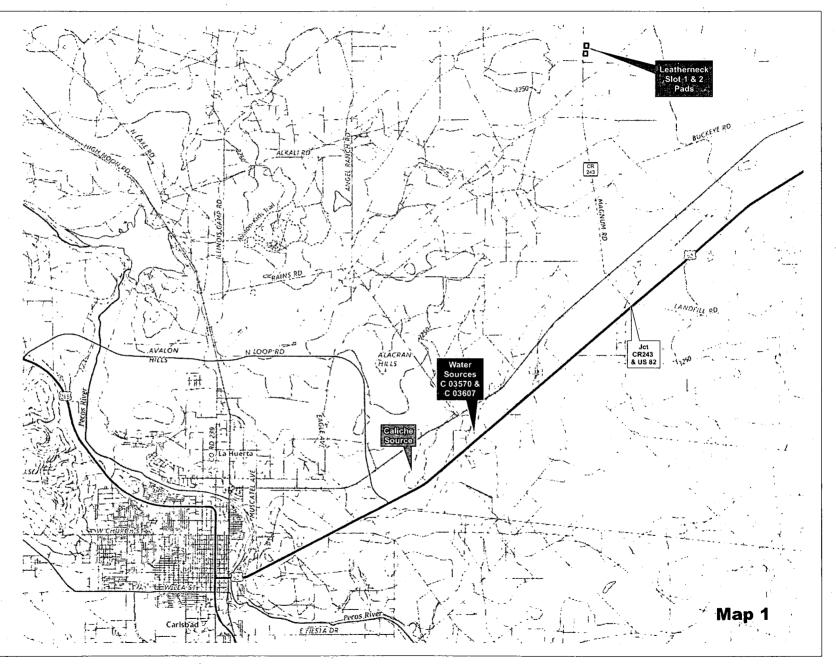


NAD 1983 New Mexico State Plane East FIPS 3001 Feet

PERMITS WEST ...

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





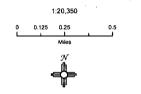
Leatherneck Fed Slot 2: 122H, 132H, 202H, & 222H Well Vicinity & Lease Map

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

Leatherneck Fed Slot 2 Well Pad

-- Proposed Slot 2 Well Bore Path

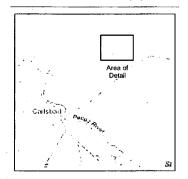
7 Bottom Hole Location
Matador Lease Line
BLM Surface
State Surface

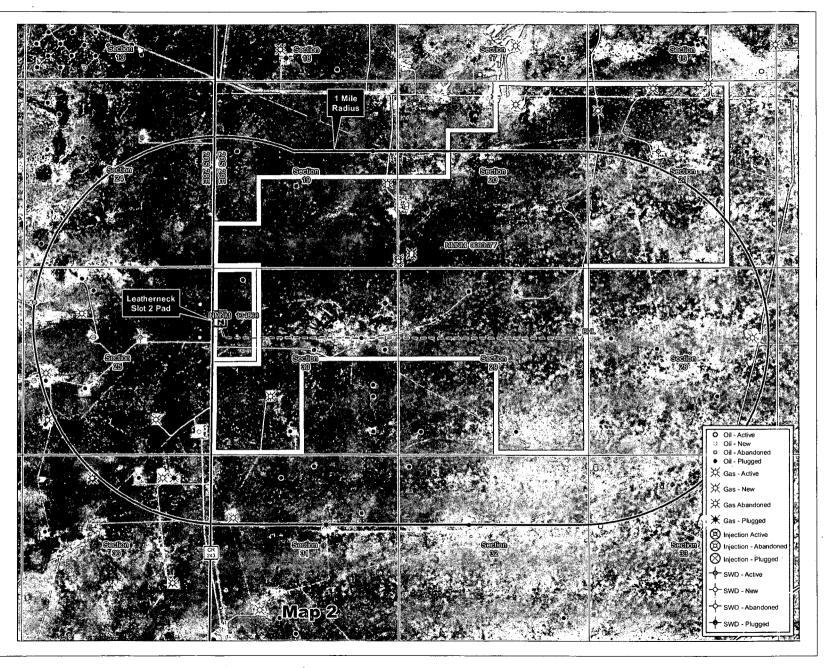


NAD 1983 New Mexico State Plane East FIPS 3001 Feet

PERMYTS WEST ...

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



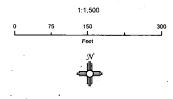


Leatherneck Fed Slot 1: 121H, 131H, 201H, & 221H Slot 2: 122H, 132H, 202H, & 222H Well Pad & Access Road Map

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

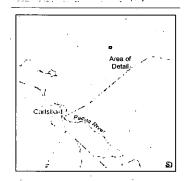
Matador Lease Line

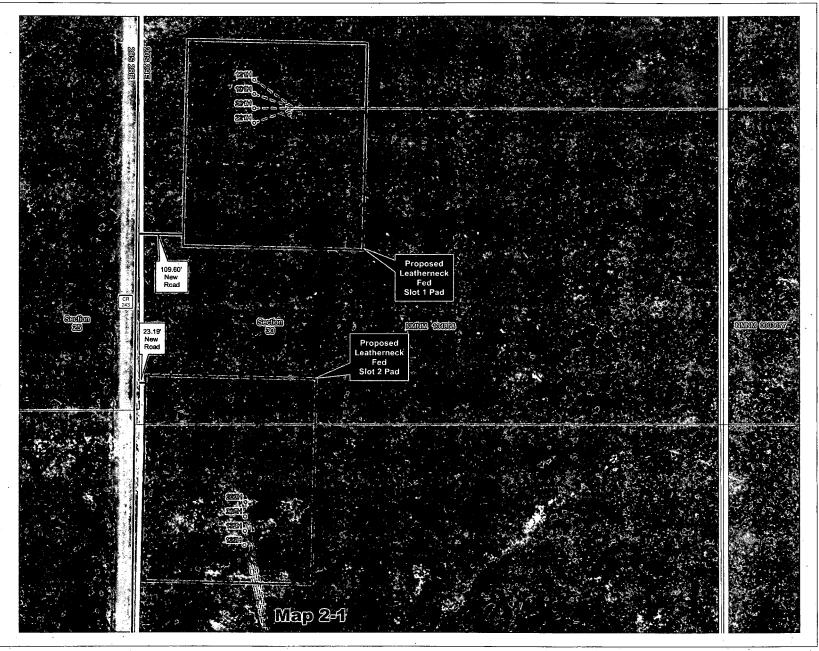


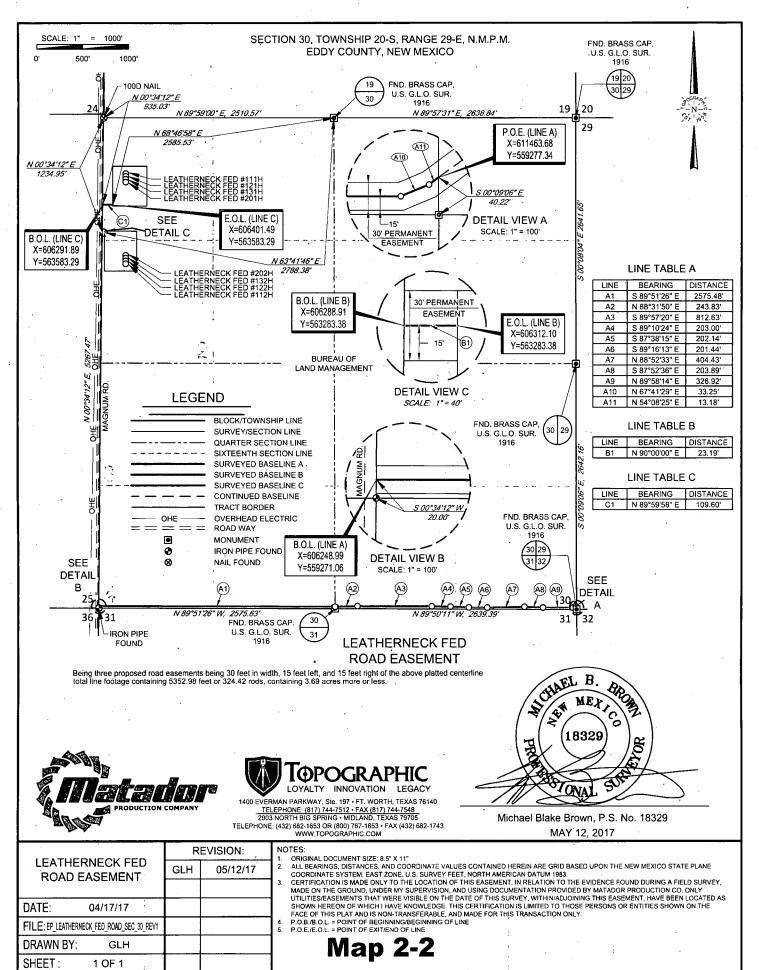
NAD 1983 New Mexico State Plane East FIPS 3001 Feet

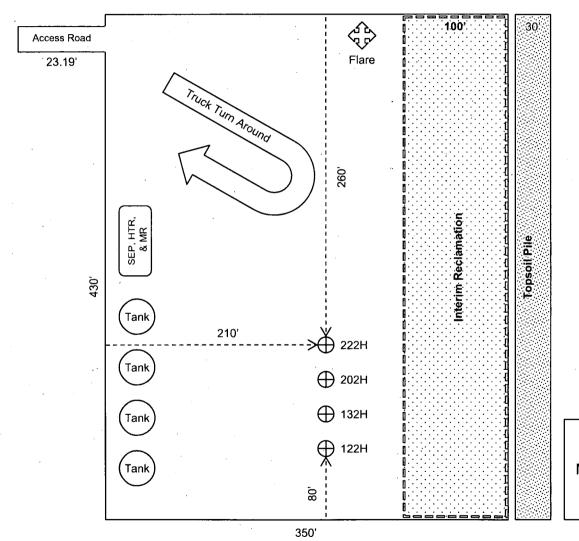
PERMYTS WEST

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









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



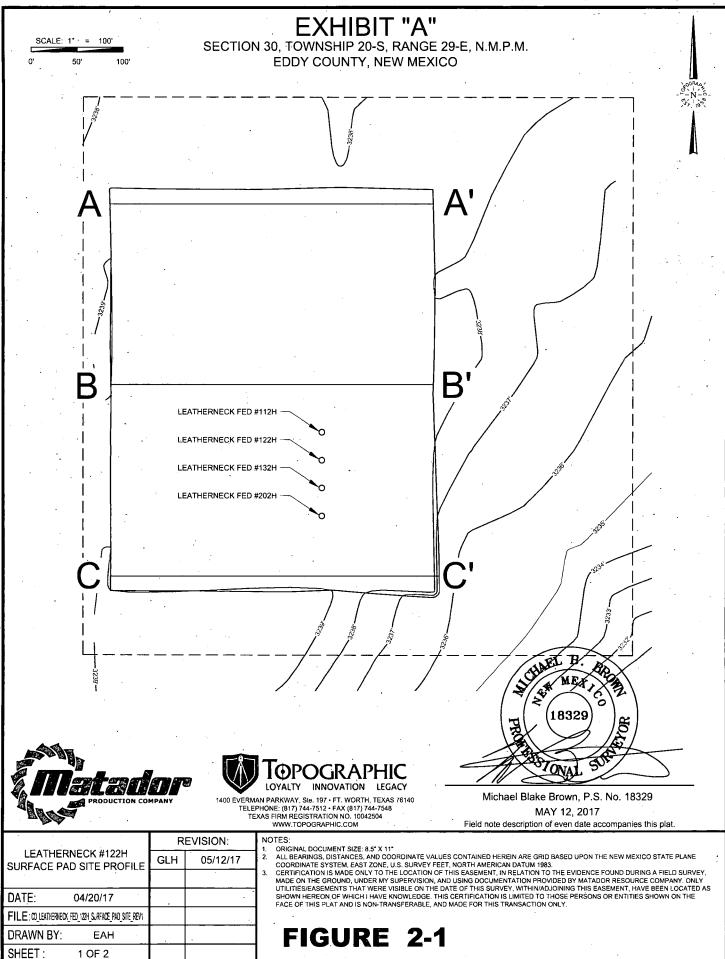


EXHIBIT "A"

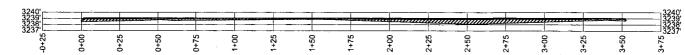
SECTION 30, TOWNSHIP 20-S, RANGE 29-E, N.M.P.M. EDDY COUNTY, NEW MEXICO



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





B-B'

A-A'



C-C'





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

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:		T
	GLH	05/12/17	<u>ء</u> َ [
] ;
			1
DATE: 04/20/17			1
FILE: CO_LEATHERNECK_FED_122H_SURFACE_PAD_SITE_REV1			1
DRAWN BY: EAH			1
SHEET: 2 OF 2			7

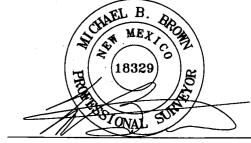
OTES:

1. ORIGINAL DOCUMENT SIZE: 8.5" X 11"

 ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREIN ARE GRID BASED UPON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, U.S. SURVEY FEET, NORTH AMERICAN DATUM 1983.

3. CERTIFICATION IS MADE ONLY TO THE LOCATION OF THIS EASEMENT, IN RELATION TO THE EVIDENCE FOUND DURING A FIELD SURVEY, MADE ON THE GROUND, UNDER MY SUPERVISION, AND USING DOCUMENTATION PROVIDED BY MATADOR RESOURCE COMPANY, ONLY UTILITIES/EASEMENTS THAT WERE VISIBLE ON THE DATE OF THIS SURVEY, WITHINADDINING 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.

FIGURE 2-2



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

Field note description of even date accompanies this plat.

Rig Diagram

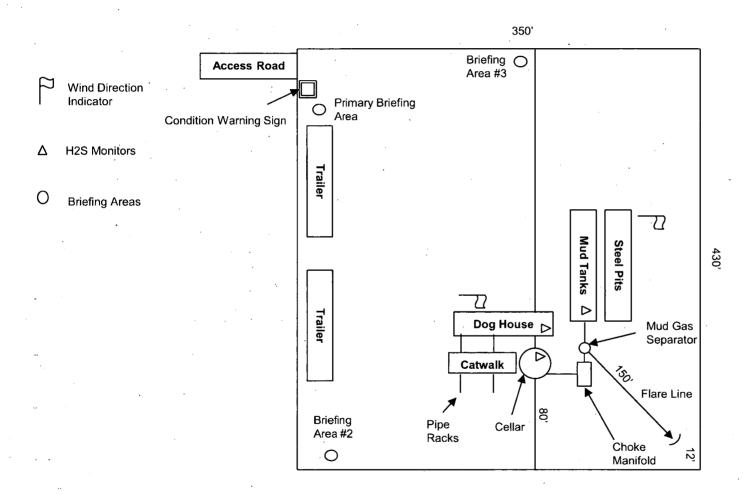


Figure 3: Rig Diagram
Leatherneck Fed Com Slot 2
Matador Resources Company
29/30-20S-29E
Eddy County, NM

