

Form 3160-3
(June 2015)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: <input type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No.
1b. Type of Well: <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		6. If Indian, Allottee or Tribe Name
1c. Type of Completion: <input type="checkbox"/> Hydraulic Fracturing <input type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		7. If Unit or CA Agreement, Name and No.
2. Name of Operator		8. Lease Name and Well No.
3a. Address		9. API Well No. 30-025-53988
3b. Phone No. (include area code)		10. Field and Pool, or Exploratory
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface At proposed prod. zone		11. Sec., T. R. M. or Blk. and Survey or Area
14. Distance in miles and direction from nearest town or post office*		12. County or Parish
		13. State
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No of acres in lease	17. Spacing Unit dedicated to this well
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. in file
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*	23. Estimated duration
24. Attachments		

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

- | | |
|---|---|
| <ul style="list-style-type: none"> 1. Well plat certified by a registered surveyor. 2. A Drilling Plan. 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office). | <ul style="list-style-type: none"> 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). 5. Operator certification. 6. Such other site specific information and/or plans as may be requested by the BLM. |
|---|---|

25. Signature	Name (Printed/Typed)	Date
Title		
Approved by (Signature)	Name (Printed/Typed)	Date
Title		Office

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.



(Continued on page 2)

*(Instructions on page 2)

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources
Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

FORM C-102

Revised August 1, 2011

Submit one copy to appropriate

District Office

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-53988	² Pool Code 96228	³ Pool Name PRONGHORN; BONE SPRING
⁴ Property Code 328112	⁵ Property Name RODNEY ROBINSON FEDERAL	
⁷ OGRID No. 228937	⁸ Operator Name MATADOR PRODUCTION COMPANY	⁶ Well Number 128H
		⁹ Elevation 3719'

¹⁰Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	7	23-S	33-E	-	575'	SOUTH	385'	EAST	LEA

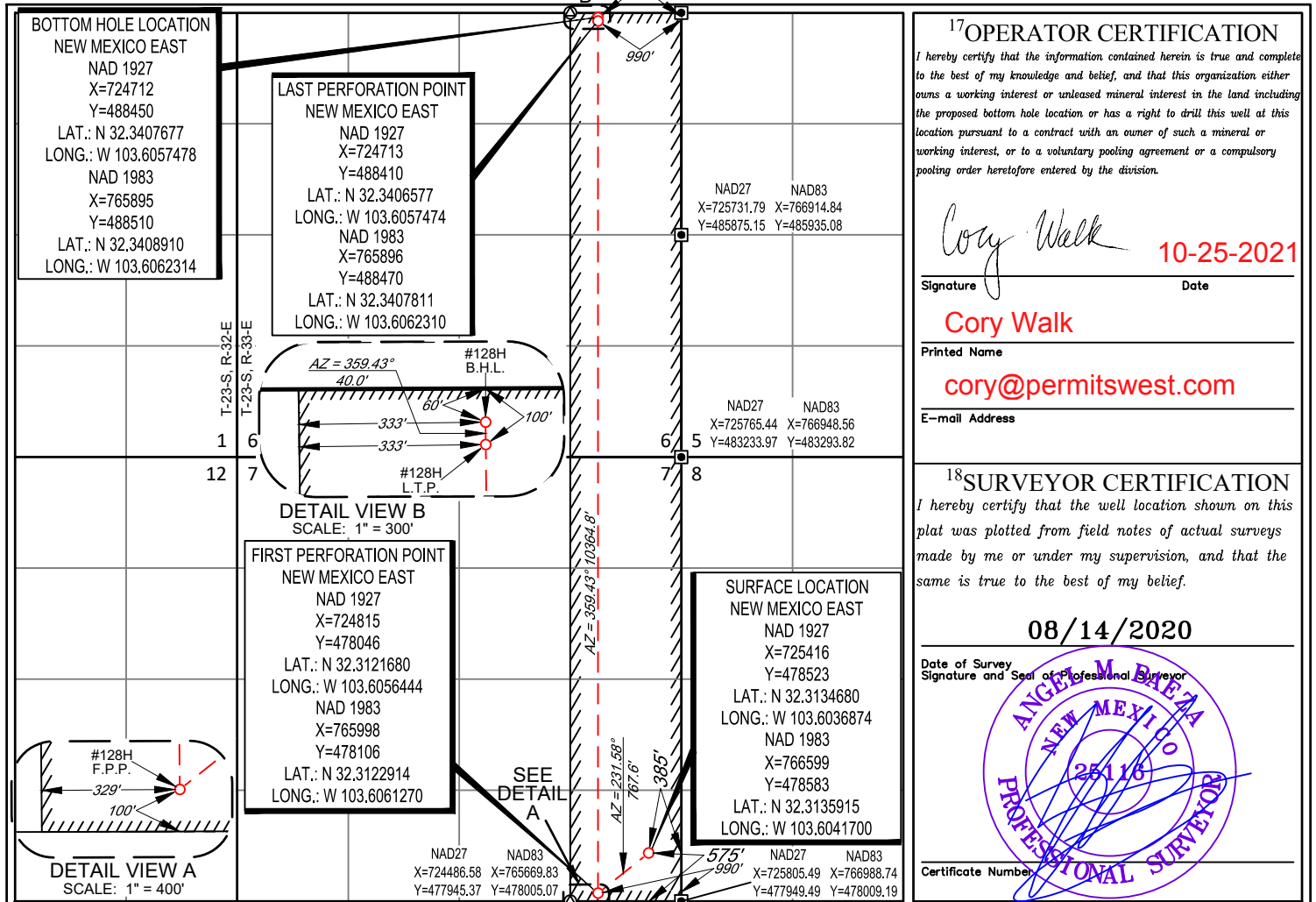
¹¹Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
1	6	23-S	33-E	-	60'	NORTH	990'	EAST	LEA

¹² Dedicated Acres 320.16	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

SEE
DETAIL
B
NAD27 NAD83 X=724378.65 X=765561.63 Y=488508.84 Y=488568.84
NAD27 NAD83 X=725701.45 X=766884.44 Y=488515.02 Y=488575.02



PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	MATADOR PRODUCTION COMPANY
WELL NAME & NO.:	RODNEY ROBINSON FED COM 128H
APD ID:	10400081455
SURFACE HOLE FOOTAGE:	575'/S & 385'/E
BOTTOM HOLE FOOTAGE:	60'/N & 990'/E
SURFACE LOCATION:	Section 7, T.23 S., R.33 E. NMP.
COUNTY:	Lea County, New Mexico

COA

H ₂ S	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Potash	<input checked="" type="radio"/> None	<input type="radio"/> Secretary	<input type="radio"/> R-111-P
Cave/Karst Potential	<input checked="" type="radio"/> Low	<input type="radio"/> Medium	<input type="radio"/> High
Cave/Karst Potential	<input type="radio"/> Critical		
Variance	<input type="radio"/> None	<input checked="" type="radio"/> Flex Hose	<input type="radio"/> Other
Wellhead	<input type="radio"/> Conventional	<input checked="" type="radio"/> Multibowl	<input type="radio"/> Both
Other	<input type="checkbox"/> 4 String	<input type="checkbox"/> Capitan Reef	<input type="checkbox"/> WIPP
Other	<input type="checkbox"/> Offline Cementing	<input type="checkbox"/> Pilot Hole	<input type="checkbox"/> Break testing
Special Requirements	<input type="checkbox"/> Water Disposal	<input checked="" type="checkbox"/> COM	<input type="checkbox"/> Unit

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H₂S) Drilling Plan shall be activated **AT SPUD**. As a result, the Hydrogen Sulfide area must meet **43 CFR 3176** 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 DESIGN

1. The **13-3/8** inch surface casing shall be set at approximately **1,351 ft.** (a minimum of 25 feet (Lea County) into the Rustler Anhydrite and above the salt) and cemented to the surface. **If salt is encountered, set casing at least 25 ft. above the salt.**
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic-type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or **500 psi compressive strength**, whichever is greater. (This is to include the lead cement)

- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 psi compressive strength, whichever is greater.
- d. If cement falls back, remedial cementing will be done prior to drilling out that string.

Note: Operator has requested to have option to drill either 17-1/2" or 20" surface hole. Both hole sizes meet title 43 CFR 3172 clearance requirements between casing-coupling and hole. This option is granted; adjust cement volume accordingly.

2. The **7-5/8** inch intermediate casing shall be set at approximately **8,900 ft.** Intermediate casing set depth was adjusted based on the BLM geologist recommendation: *"The operator proposes to set intermediate casing at 10033 ft. This is in the 1st bone spring sandstone. The BLM proposes to set intermediate casing at 8,900 feet in the Bone Spring Limestone Formation"*. The minimum required fill of cement behind the **7-5/8** inch intermediate casing is:

Option 1 (Single stage): Cement to surface. If cement does not circulate see B.1.a, c-d above.

Note: Excess cement volume is below the CFO's recommendation of 25%. More cement might be needed.

Option 2 (Two-stage): Operator has proposed a DV tool, the depth may be adjusted as long as the cement is changed proportionally. The DV tool may be cancelled if cement circulates to surface on the first stage.

- **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.
- **Second stage above DV tool: Cement to surface.** If cement does not circulate see B.1.a, c-d above.

Note: Excess cement volume is below the CFO's recommendation of 25%. More cement might be needed.

3. Operator has proposed to set **5-1/2 in.** production casing at approximately **20,867 ft.** (10,429 ft. TVD). The minimum required fill of cement behind the **5-1/2 in.** production casing is:

- Cement should tie-back **at least 200 feet** into previous casing string. Operator shall provide method of verification.

Note: Cement volume is insufficient to have at least 100 ft. tie-back into previous casing. More cement might be needed.

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. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M) psi**. The BOP/BOPE and annular preventer shall be pressure-tested in accordance with **title 43 CFR 3172 and API Standard 53**.
 - 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 the **title 43 CFR 3172.6(b)(9)** must be followed.

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

GENERAL REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)

Eddy County

EMAIL or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,

BLM_NM_CFO_DrillingNotifications@BLM.GOV

(575) 361-2822

Lea County

Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 689-5981

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per **title 43 CFR 3172**
 - as soon as 2nd Rig is rigged up on well.
2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
8. Whenever a casing string is cemented in the R-111-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 the **title 43 CFR 3172** and **API STD 53 Sec. 5.3**.
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. Whenever any seal subject to test pressure is broken, all the tests in the **title 43 CFR 3172.6(b)(9)** must be followed.
 - e. If the cement does not circulate and one-inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including

lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).

- 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 cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)
- c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR 3172** with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- d. The test shall be run on a 5000-psi chart for a 2-3M BOP/BOP, on a 10000-psi chart for a 5M BOP/BOPE and on a 15000-psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one-hour chart. A circular chart shall have a maximum 2-hour clock. If a twelve hour or twenty-four-hour chart is used, tester shall make a notation that it is run with a two-hour clock.
- e. The results of the test shall be reported to the appropriate BLM office.
- f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- g. The BOP/BOPE test shall include a low-pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per **43 CFR 3172**.

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

SA 01/08/2024



Operator Certification Data Report

11/11/2024

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

Operator

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

NAME: BRIAN WOOD

Signed on: 11/08/2021

Title: Permitting Agent

Street Address: 37 VERANO LOOP

City: SANTA FE

State: NM

Zip: 87508

Phone: (505)466-8120

Email address: AFMSS@PERMITSWEST.COM

Field

Representative Name:

Street Address:

City:

State:

Zip:

Phone:

Email address:



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

Application Data

11/11/2024

APD ID: 10400081455

Submission Date: 11/08/2021

Highlighted data reflects the most recent changes
[Show Final Text](#)

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: RODNEY ROBINSON FED COM

Well Number: 128H

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - General

APD ID: 10400081455

Tie to previous NOS? N

Submission Date: 11/08/2021

BLM Office: Carlsbad

User: BRIAN WOOD

Title: Permitting Agent

Federal/Indian APD: FED

Is the first lease penetrated for production Federal or Indian? FED

Lease number: NMNM138876

Lease Acres:

Surface access agreement in place?

Allotted?

Reservation:

Agreement in place? NO

Federal or Indian agreement:

Agreement number:

Agreement name:

Keep application confidential? N

Permitting Agent? YES

APD Operator: MATADOR PRODUCTION COMPANY

Operator letter of

Operator Info

Operator Organization Name: MATADOR PRODUCTION COMPANY

Operator Address: ONE LINCOLN CENTER 5400 LBJ FREEWAY SUITE 1500

Zip: 75240

Operator PO Box:

Operator City: DALLAS

State: TX

Operator Phone: (972)371-5200

Operator Internet Address:

Section 2 - Well Information

Well in Master Development Plan? NO

Master Development Plan name:

Well in Master SUPO? NO

Master SUPO name:

Well in Master Drilling Plan? NO

Master Drilling Plan name:

Well Name: RODNEY ROBINSON FED COM

Well Number: 128H

Well API Number:

Field/Pool or Exploratory? Field and Pool

Field Name: PRONGHORN

Pool Name: BONE SPRING

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: RODNEY ROBINSON FED COM

Well Number: 128H

Is the proposed well in an area containing other mineral resources? NATURAL GAS

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

Type of Well Pad: MULTIPLE WELL

Multiple Well Pad Name:
Rodney Robinson Fed Com

Number: Slot 4

Well Class: HORIZONTAL

Number of Legs: 1

Well Work Type: Drill

Well Type: OIL WELL

Describe Well Type:

Well sub-Type: INFILL

Describe sub-type:

Distance to town: 28 Miles

Distance to nearest well: 30 FT

Distance to lease line: 385 FT

Reservoir well spacing assigned acres Measurement: 320.16 Acres

Well plat: RR_128H_C102_20211104153633.pdf

Well work start Date: 03/01/2022

Duration: 90 DAYS

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83

Vertical Datum: NAVD88

Survey number: 25116

Reference Datum: KELLY BUSHING

Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD	Will this well produce from this
SHL Leg #1	575	FSL	385	FEL	23S	33E	7	Aliquot SESE	32.31359 15	- 103.6041 7	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 138876	371 9	0	0	Y
KOP Leg #1	47	FSL	102 6	FEL	23S	33E	7	Aliquot SESE	32.31214 58	- 103.6062 446	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 138876	- 630 8	100 83	100 27	Y
PPP Leg #1-1	106	FSL	102 3	FEL	23S	33E	7	Aliquot SESE	32.31230 74	- 103.6062 349	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 138876	- 655 2	103 44	102 71	Y

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: RODNEY ROBINSON FED COM

Well Number: 128H

Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD	Will this well produce from this
PPP Leg #1-2	1320	FSL	990	FEL	23S	33E	7	Aliquot NESE	32.315716	-103.606123	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 126492	-6870	11697	10589	Y
EXIT Leg #1	60	FNL	990	FEL	23S	33E	6	Lot 1	32.340891	-103.6062314	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 138876	-6710	20867	10429	Y
BHL Leg #1	60	FNL	990	FEL	23S	33E	6	Lot 1	32.340891	-103.6062314	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 138876	-6710	20867	10429	Y



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

Drilling Plan Data Report

11/11/2024

APD ID: 10400081455

Submission Date: 11/08/2021

Highlighted data reflects the most recent changes

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: RODNEY ROBINSON FED COM

Well Number: 128H

Well Type: OIL WELL

Well Work Type: Drill

[Show Final Text](#)

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
14472152	QUATERNARY	3719	0	0	OTHER : Caliche	NONE	N
14472153	RUSTLER ANHYDRITE	2393	1326	1326	ANHYDRITE	NONE	N
14472154	SALADO	1714	2005	2005	SALT	NONE	N
14472155	CASTILE	-19	3738	3738	SALT	NONE	N
14472156	BELL CANYON	-1448	5167	5167	SANDSTONE	NATURAL GAS, OIL	N
14472157	CHERRY CANYON	-2294	6013	6013	SANDSTONE	NATURAL GAS, OIL	N
14472158	BRUSHY CANYON	-3547	7266	7266	SANDSTONE	NATURAL GAS, OIL	N
14472159	BONE SPRING LIME	-5171	8890	8890	LIMESTONE	NATURAL GAS, OIL	N
14472160	BONE SPRING 1ST	-6351	10070	10135	SANDSTONE	NATURAL GAS, OIL	N
14472161	BONE SPRING 2ND	-6552	10271	10344	OTHER : Carbonate	NATURAL GAS, OIL	Y

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M

Rating Depth: 12000

Equipment: A 12,000' 5,000-psi BOP stack consisting of 3 rams with 2 pipe rams, 1 blind ram, and one annular preventer will be utilized below surface casing to TD. See attachments for BOP and choke manifold diagrams. An accumulator complying with Onshore Order #2 requirements for the pressure rating of the BOP stack will be present. A rotating head will also be installed as needed.

Requesting Variance? YES

Variance request: Matador requests a variance to have the option of running a multi-bowl wellhead assembly for setting the Intermediate 1, and Production Strings. The BOPs will not be tested again unless any flanges are separated. Matador requests a variance to drill this well using a co-flex line between the BOP and choke manifold. Certification for proposed co-flex hose is attached. The hose is not required by the manufacturer to be anchored. If the specific hose is not available, then one of equal or higher rating will be used. Matador requests a variance to have the option of batch drilling this well with other wells on the same pad. In the event that this well is batch drilled, the wellbore will be secured with a blind flange of like

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: RODNEY ROBINSON FED COM

Well Number: 128H

pressure. When the rig returns to this well and BOPs are installed, the operator will perform a full BOP test.

Testing Procedure: BOP will be inspected and operated as required in Onshore Order #2. Kelly cock and sub equipped with a full opening valve sized to fit the drill pipe and collars will be available on the rig floor in the open position. A third party company will test the BOPs. After setting surface casing, a minimum 5M BOPE system will be installed. Test pressures will be 250 psi low and 5,000 psi high with the annular preventer being tested to 250 psi low and 2500 psi high before drilling below surface shoe. In the event that the rig drills multiple wells on the pad and any seal subject to test pressures are broken, a full BOP test will be performed when the rig returns and the 5M BOPE system is re-installed.

Choke Diagram Attachment:

5M_Choke_Manifold_Arrangement_20211104155441.pdf

BOP Diagram Attachment:

5M_BOP_20211104155503.pdf

Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	17.5	13.375	NEW	API	N	0	1351	0	1351	3719	2368	1351	J-55	54.5	BUTT	1.125	1.125	DRY	1.8	DRY	1.8
2	INTERMEDIATE	9.875	7.625	NEW	API	N	0	10033	0	10033	3718	-6314	10033	P-110	29.7	BUTT	1.125	1.125	DRY	1.8	DRY	1.8
3	PRODUCTION	6.75	5.5	NEW	NON API	N	0	20867	0	10429	3718	-6710	20867	P-110	20	OTHER - Hunting TLW SC	1.125	1.125	DRY	1.8	DRY	1.8

Casing Attachments

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: RODNEY ROBINSON FED COM

Well Number: 128H

Casing Attachments

Casing ID: 1 **String** SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Casing_Design_Assumptions_3string_20211104155534.pdf

Casing ID: 2 **String** INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Casing_Design_Assumptions_3string_20211104155600.pdf

Casing ID: 3 **String** PRODUCTION

Inspection Document:

Spec Document:

Casing_Specs_5.5in_20lb_Hunting_TLW_SC_20211104155628.pdf

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Casing_Design_Assumptions_3string_20211104155639.pdf

Section 4 - Cement

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: RODNEY ROBINSON FED COM

Well Number: 128H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
PRODUCTION	Lead		0	0	0	0	0	0	0	None	None
PRODUCTION	Tail		9833	2086 7	750	1.35	13.2	1014	10	Class A/C	Fluid Loss + Dispersant + Retarder
SURFACE	Lead		0	1051	680	1.72	13.5	1167	50	Class C	5% NaCl + LCM
SURFACE	Tail		1051	1351	250	1.38	148	347	50	Class C	5% NaCl + LCM
INTERMEDIATE	Lead		0	9033	720	3.66	10.3	2619	35	Class A/C	Bentonite + 1% CaCL2 + 8% NaCl + LCM
INTERMEDIATE	Tail		9033	1003 3	210	1.38	13.2	290	35	Class A/C	5% NaCl + 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 2 will be used.

Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	1351	OTHER : Spud Mud	8.4	8.8							
1351	1003 3	OTHER : Diesel Brine Emulsion	8.7	9.4							

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: RODNEY ROBINSON FED COM

Well Number: 128H

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
1003 3	2086 7	OTHER : OBM/Cut Brine	8.8	9.4							

Section 6 - Test, Logging, Coring

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

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 top of curve.

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

CEMENT BOND LOG, GAMMA RAY LOG,

Coring operation description for the well:

No core or drill stem test is planned.

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 5098

Anticipated Surface Pressure: 2768

Anticipated Bottom Hole Temperature(F): 150

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

Describe:

Contingency Plans geohazards description:

Contingency Plans geohazards

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations

RR_Slot4_H2S_Plan_20211104160012.pdf

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: RODNEY ROBINSON FED COM

Well Number: 128H

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

RR_128H_Horizontal_Plan_20211104160029.pdf

Other proposed operations facets description:

Other proposed operations facets attachment:

RR_128H_Drill_Plan_20211104160039.pdf

CoFlex_Hose_Certification_20211104160051.pdf

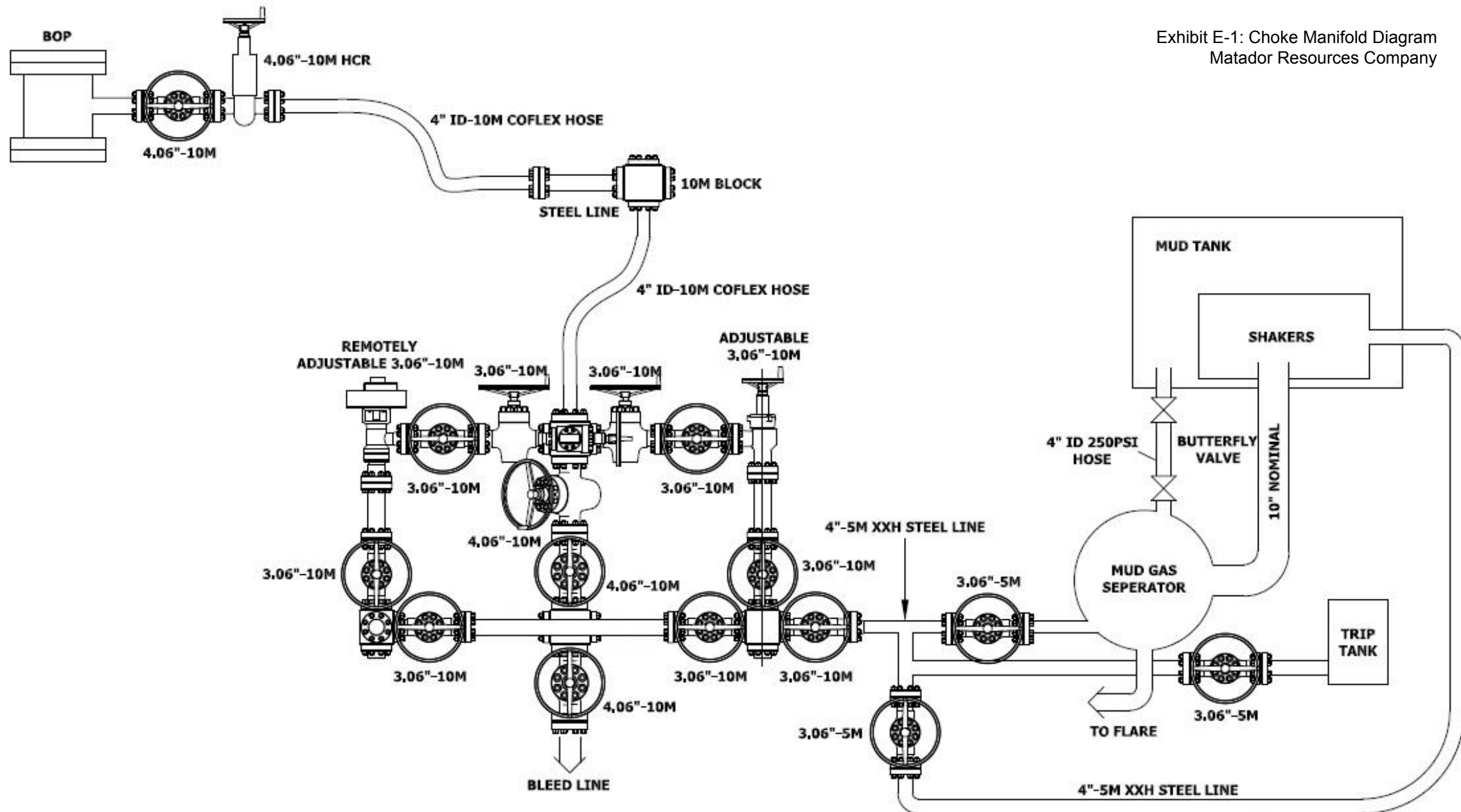
RR_128H_Anticollision_Report_20211104160107.pdf

Wellhead_Diagram_3string_20211104160116.pdf

Other Variance attachment:

Casing_Cementing_Variance_20211104160125.pdf

Exhibit E-1: Choke Manifold Diagram
Matador Resources Company




WELDING NOTE & TOLERANCES UNLESS OTHERWISE SPECIFIED,

GENERAL WELDING NOTE:
ALL ACCESSIBLE CONTACT SURFACES SHALL BE JOINED WITH CONTINUOUS 45 DEGREE FILLET WELDS, WELD SIZE TO BE 1/16 INCH SMALLER THAN THINNER MEMBER JOINED UP TO 5/16 INCH THICKNESS AND 1/8 INCH SMALLER THAN THINNER MEMBER JOINED UP TO 3/4 INCH THICKNESS
WELDMENT TOLERANCES = ± 1/16

MACHINING TOLERANCES
1 PLACE DECIMAL = ± .1
2 PLACE DECIMAL = ± .03
3 PLACE DECIMAL = ± .015
FRACTIONAL TOLERANCES = 1/64
H/8 SIDE MACHINED CORNER RADIUS = .031
CHAMFER OUTSIDE CORNERS .25 X 45 DEG
ANGLE TOLERANCES = ± 1 DEGREE
MACHINED SURFACE FINISH 125 RMS
ALL UNSPECIFIED DIMENSIONS ARE IN INCHES

REV	DATE	DESCRIPTION	CP	CSL	DRWN BY	CHK BY	APPRD ENG.
02	8-3-15	ISSUED FOR INFORMATION					
01	7-8-15	ISSUED FOR INFORMATION					

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DRILLING COMPANY LLC
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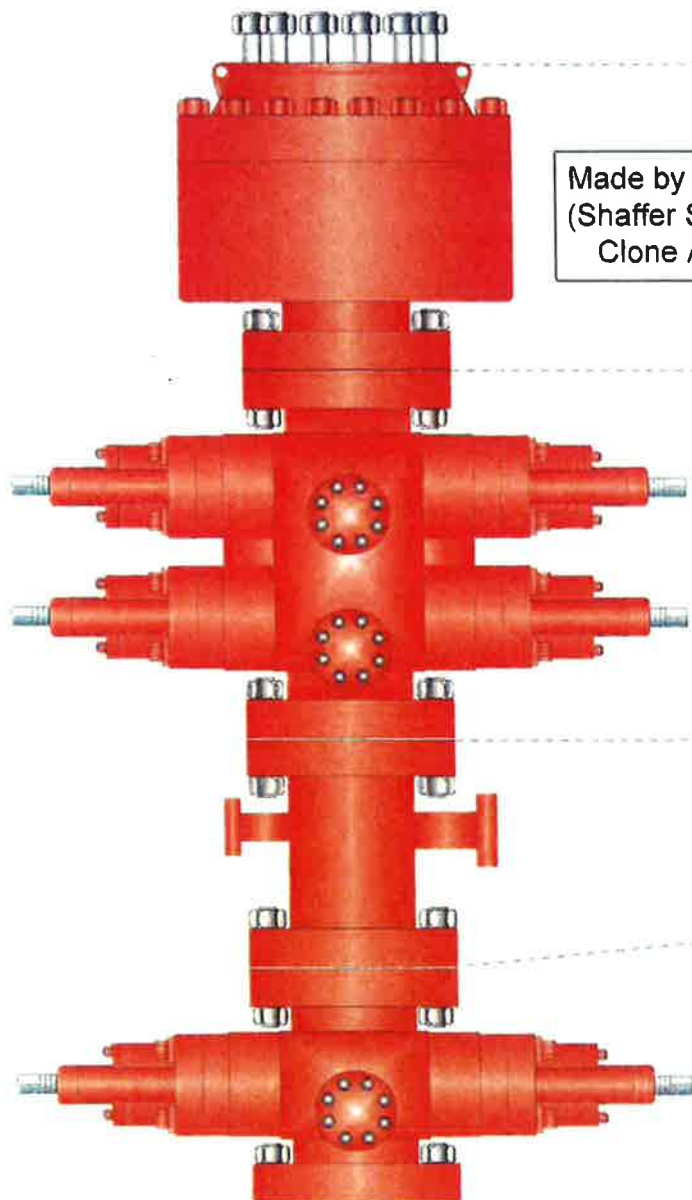
 PATTERSON-UTI DRILLING COMPANY LLC	
CHOKE MANIFOLD	
10M CHOKE ARRANGEMENT RIG 297	
DWG NO. R0297-D.001.LAY.09	SWT 1 DP 1 REV 02



PATTERSON-UTI

Well Control

RIG: 297



Made by Cameron
(Shaffer Spherical)
Clone Annular

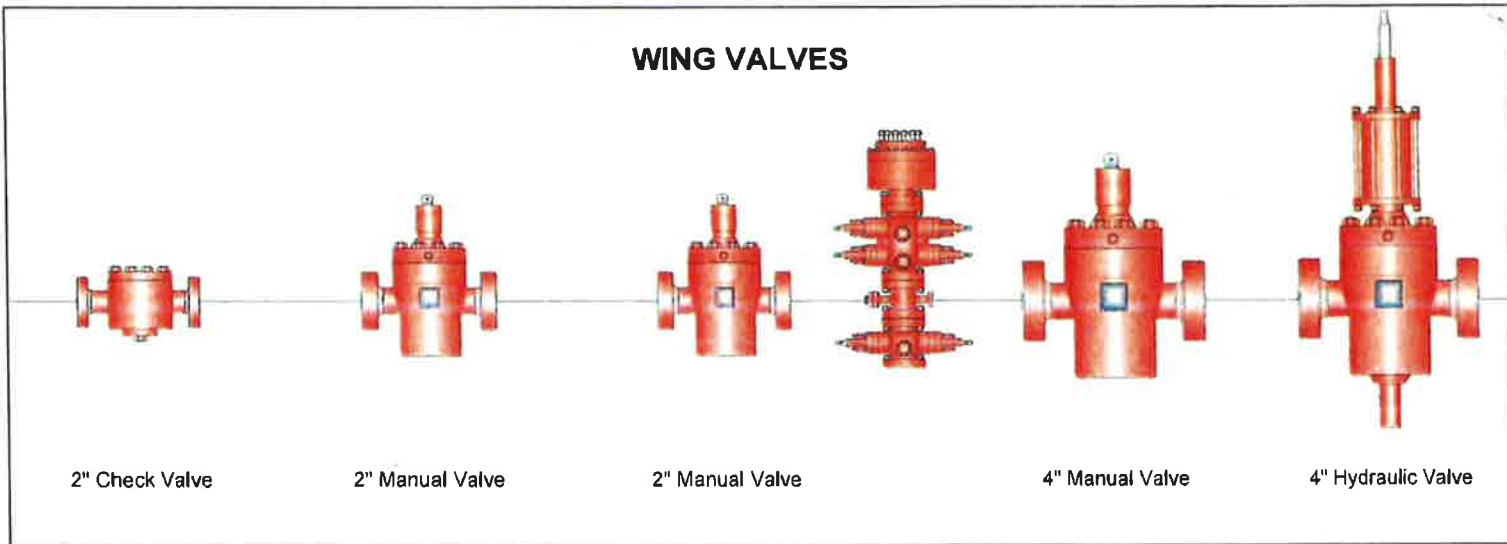
PATTERSON-UTI # PS2-628
STYLE: New Shaffer Spherical
BORE 13 5/8" PRESSURE 5,000
HEIGHT: 48 1/2" WEIGHT: 13,800 lbs

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

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

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

WING VALVES



2" Check Valve

2" Manual Valve

2" Manual Valve

4" Manual Valve

4" Hydraulic Valve



TEC-LOCK WEDGE

5.500" 20 LB/FT (.361"Wall) with 5.875" SPECIAL CLEARANCE OD
 BEN P110 CY

Pipe Body Data

Nominal OD:	5.500	in
Nominal Wall:	.361	in
Nominal Weight:	20.00	lb/ft
Plain End Weight:	19.83	lb/ft
Material Grade:	P110 CY	
Mill/Specification:	BEN	
Yield Strength:	125,000	psi
Tensile Strength:	135,000	psi
Nominal ID:	4.778	in
API Drift Diameter:	4.653	in
Special Drift Diameter:	None	in
RBW:	87.5 %	
Body Yield:	729,000	lbf
Burst:	14,360	psi
Collapse:	13,010	psi

Connection Data

Standard OD:	5.875	in
Pin Bored ID:	4.778	in
Critical Section Area:	5.656	in ²
Tensile Efficiency:	97 %	
Compressive Efficiency:	100 %	
Longitudinal Yield Strength:	707,000	lbf
Compressive Limit:	729,000	lbf
Internal Pressure Rating:	14,360	psi
External Pressure Rating:	13,010	psi
Maximum Bend:	101.2	°/100ft

Operational Data

Minimum Makeup Torque:	15,000	ft*lbf
Optimum Makeup Torque:	18,700	ft*lbf
Maximum Makeup Torque:	41,200	ft*lbf
Minimum Yield:	45,800	ft*lbf
Makeup Loss:	5.97	in

Notes Operational Torque is equivalent to the Maximum Make-Up Torque



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: $DF_c=1.125$

- 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.
- 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. External force will be equal to the mud gradient in which the casing will be run, 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 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.

Production Casing

Collapse: $DF_c=1.125$

- Full Internal Evacuation: Collapse force equal to the mud gradient in which the casing will be run. 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 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, which is a more conservative backup force than pore pressure.
- Injection Down Casing: 9500 psi surface injection pressure plus an internal pressure gradient of 0.50 psi/ft with an external force equal to the mud gradient in which the casing will be run, 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.

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: $DF_c=1.125$

- 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.
- 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. External force will be equal to the mud gradient in which the casing will be run, which is a more conservative backup force than pore pressure.
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Tensile: $DF_t=1.8$

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

Production Casing

Collapse: $DF_c=1.125$

- Full Internal Evacuation: Collapse force equal to the mud gradient in which the casing will be run. 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 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, which is a more conservative backup force than pore pressure.
- Injection Down Casing: 9500 psi surface injection pressure plus an internal pressure gradient of 0.50 psi/ft with an external force equal to the mud gradient in which the casing will be run, 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.

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: $DF_c=1.125$

- 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.
- 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. External force will be equal to the mud gradient in which the casing will be run, 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 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.

Production Casing

Collapse: $DF_c=1.125$

- Full Internal Evacuation: Collapse force equal to the mud gradient in which the casing will be run. 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 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, which is a more conservative backup force than pore pressure.
- Injection Down Casing: 9500 psi surface injection pressure plus an internal pressure gradient of 0.50 psi/ft with an external force equal to the mud gradient in which the casing will be run, 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.

MRC ENERGY CO.'S

Hydrogen Sulfide Drilling
Operations Plan
Matador Resources

1 H2S safety instructions to the following:

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

2 H2S Detection and Alarm Systems:

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

3 Windsocks and / Wind Streamers:

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

4 Condition Flags and Signs:

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

5 Well Control Equipment:

- See Exhibit E-1

6 Communication:

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

7 Drilling Stem Testing:

- No DST cores are planned at this time

MRC ENERGY CO.'S

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

11 Emergency Contacts

- See exhibit E-6

MRC ENERGY CO.'S

**HYDROGEN SULFIDE CONTINGENCY PLAN
Drilling, Testing, & Completion**

MRC ENERGY CO.

Reviewers

----- Operations Manager
 ----- Operations Supt.
 ----- Staff RES
 ----- Field Supt.
 Blake Hermes---Engineering

H2S Contingency Plan # 0165 Revision# 0

This H2S Contingency Plan is subject to updating

Effective date: July 8, 2015

MRC ENERGY CO.'S

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MRC ENERGY CO.'S

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.

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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.

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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.

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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 H₂S Safety Technician will be responsible for rigging up all H₂S 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 H₂S is detected, or when drilling in a zone confirmed to contain H₂S, 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.

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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

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the Total Safety H₂S Safety Technician. Windssocks 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.

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III. CONDITIONS AND EMERGENCY PROCEDURES

A. DEFINITION OF OPERATIONAL “CONDITIONS”

CONDITION I	“POSSIBLE DANGER”
Warning Flags	Green
Alarms	No Alarm. Less than 10 ppm
Characterized By:	Drilling operations in zones that may contain hydrogen sulfide. This condition remains in effect unless H ₂ S is detected and it becomes necessary to go to Condition II.
General Action:	<ul style="list-style-type: none"> 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:	<ul style="list-style-type: none"> 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

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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 is 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.

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H₂S EMERGENCY PROCEDURES; IN SCOPE PERSONNEL**A. Day To Day Drilling Operations**

1. Upon discovering a release of H₂S 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.

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8. Check all of MRC Energy Co.'s monitoring devices and increase gas-monitoring 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.

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- 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 H₂S 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.

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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.

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- 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.

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- 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 is confirmed by the Total H₂S Technician.

Cores will be appropriately marked and sealed for transportation.

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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.

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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 hip-packs) to make sure they are charged to full volume.
 - Check pressure on cascade air bottles, if on location, to see that they are capable of recharging breathing apparatus.
 - Check oxygen resuscitator, if on location, to ensure that it is charged to full volume.
 - Check 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.

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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.

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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

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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 (SO₂) detection when hydrogen sulfide (H₂S) 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.

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V – TOXICITY OF VARIOUS GASES

Lethal Common Name ppm⁴	Chemical Formula	Specific Gravity¹	PEL (OSHA)²	STEL³
Hydrogen Cyanide 300	HCN	0.94	10	150
Hydrogen Sulfide 600	H ₂ S	1.18	20	Peak- 50ppm
Note: The ACGIH(7) recommends a TWA(6) value of 10ppm as the TLV(5) for H2S and an STEL of 15ppm.				
Sulfur Dioxide 1000	SO ₂	2.21	2	5 ppm
Chlorine	CL ₂	2.45	1	
Carbon Monoxide 1000	CO	0.97	35	200/1 Hour
Carbon Dioxide 10%	CO ₂	1.52	5000	5%
Methane	CH ₄	0.55	90000	

¹ **Air = 1.0**

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

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

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

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

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

ACGIH – (American Conference of Governmental Industrial Hygienists) is an organization comprised of Occupational Health Professionals believed by many to be the top experts in the field of Industrial Hygiene. They are recognized as an expert resource by OSHA. The ACGIH releases a bi-annual publication “Threshold Limit Values and Biological Indices” that many safety professionals consider to be the authoritative document on airborne contaminants.

Reference: API RP-49, September 1974 - Reissued August 1978

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VI. PROPERTIES OF GASES

A. CARBON DIOXIDE

1. Carbon Dioxide (CO₂) 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% CO₂ without losing conscience or becoming disorientation in a few minutes. Continued exposure to CO₂ after being affected will cause convulsions, coma, and respiratory failure.

2. The threshold limit of CO₂ is 5000 ppm. Short-term exposure to 50,000 ppm (5%) is reasonable. This gas is colorless, odorless, and can be tolerated in relatively high concentrations.

B. HYDROGEN SULFIDE

1. Hydrogen Sulfide (H₂S) is a colorless, transparent, flammable gas. It is heavier than air and, hence, may accumulate in low places.

2. Although the slightest presence of H₂S 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 H₂S.

CONCENTRATION			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

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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 (SO₂) 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 first breath.

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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 H₂S.
- 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 H₂S.
- 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.

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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)

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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-minute 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

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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 INFORMATION

Respirator Type (Dustmask, SCBA, etc): _____

Brand: _____

Size: (circle): XS S M L XL

FIT TEST INFORMATION

Type of Fit Test Performed:

Quantitative

Porta Count

Fit Factor: _____

Fittester 3000

Fit Factor: _____

Qualitative

Irritant Smoke

Passed / Failed

Isoamyl Acetate (Banana Oil)

Passed / Failed

Saccharin

Passed / Failed

Bitrex

Passed / Failed

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

Fit Tester Name (Print): _____

Signature: _____ Date: _____

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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**

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

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

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

DETECTION AND ALARM SAFETY SYSTEM

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

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ADDITIONAL SAFETY RELATED EQUIPMENT

QTY DESCRIPTION

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

**TRAILER WITH BREATHING AIR CASCADE WILL
ALSO INCLUDE THE FOLLOWING:**

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

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

MRC ENERGY CO.'S

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

EMERGENCY PHONE NUMBERS

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

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

Hydrogen Sulfide Safety Consultants

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

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

MEDICAL COORDINATOR # -----

[Emergency Numbers & Directions](#)

Hospitals (911)

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

MRC ENERGY CO.'S

State Police (911)

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

Local Law Enforcement (911) (Sheriff)

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

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Federal & State Agencies

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

Rig Company

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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

MRC ENERGY CO.'S

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.

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Exhibit E-6: H2S Contingency Plan Emergency Contacts
Matador Resources Company

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
Blake Hermes	Drilling Engineer	972-371-5485	713-876-8558
	Construction Superintendent		
	Construction Superintendent		
Artesia			
Ambulance			911
State Police		575-746-2703	
City Police		575-746-2703	
Sheriff's Office		575-746-9888	
Fire Department		575-746-2701	
Local Emergency Planning Committee		575-746-2122	
New Mexico Oil Conservation Division		575-748-1283	
Carlsbad			
Ambulance			911
State Police		575-885-3137	
City Police		575-885-2111	
Sheriff's Office		575-887-7551	
Fire Department		575-887-3798	
Local Emergency Planning Committee		575-887-6544	
New Mexico Oil Conservation Division		575-887-6544	
Santa Fe			
New Mexico Emergency Response Commission (Santa Fe)		505-476-9600	
New Mexico Emergency Response Commission (Santa Fe) 24 hrs		505-827-9126	
New Mexico State Emergency Operations Center		505-476-9635	
National			
National Emergency Response Center (Washington, D.C.)		800-424-8802	
Medical			
Flight for Life- 4000 24th St.; Lubbock, TX		806-743-9911	
Aerocare- R3, Box 49F; Lubbock, TX		806-747-8923	
Med Flight Air Amb- 2301 Yale Blvd S.E., D3; Albuquerque, NM		505-842-4433	
SB Air Med Service- 2505 Clark Carr Loop S.E.; Albuquerque, NM		505-842-4949	
Other			
Boots & Coots IWC		800-256-9688	or 281-931-8884
Cudd Pressure Control		432-699-0139	or 432-563-3356
Haliburton		575-746-2757	
B.J. Services		575-746-3569	

Rig Diagram

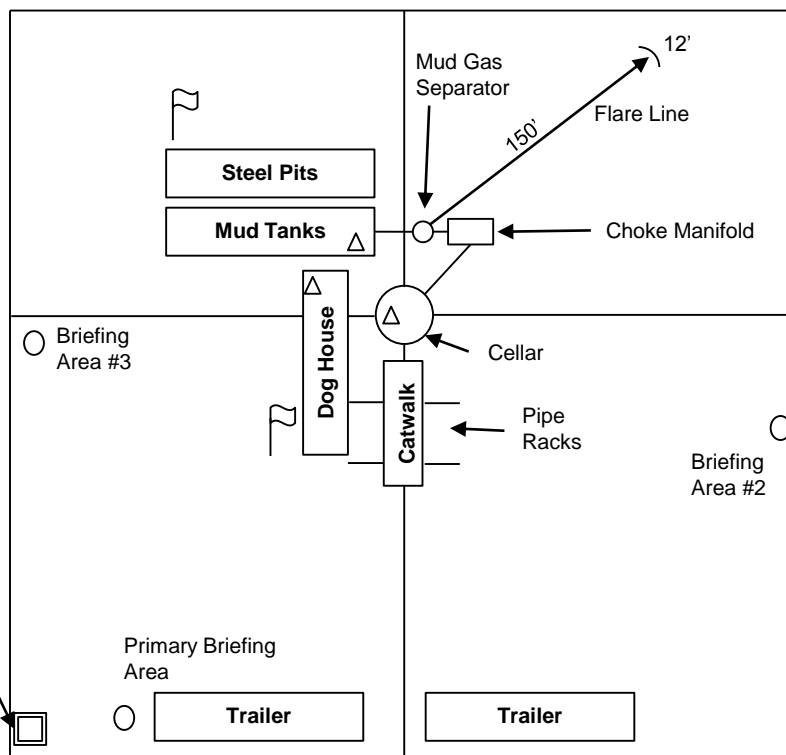
Exhibit E-3: Rig Diagram
Rodney Robinson Slot 4 Wells
Matador Resources Company
6-23S-33E
Lea County, NM

 Wind Direction Indicator

 H2S Monitors

 Briefing Areas

Condition Warning Sign



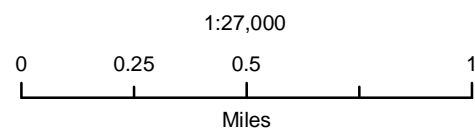
Matador Production Company

Rodney Robinson Slot 4
H₂S Contingency Plan:
2 Mile Radius Map

Section 7, Township 23S, Range 33E
Lea County, New Mexico



Pad Center



1:27,000

Miles



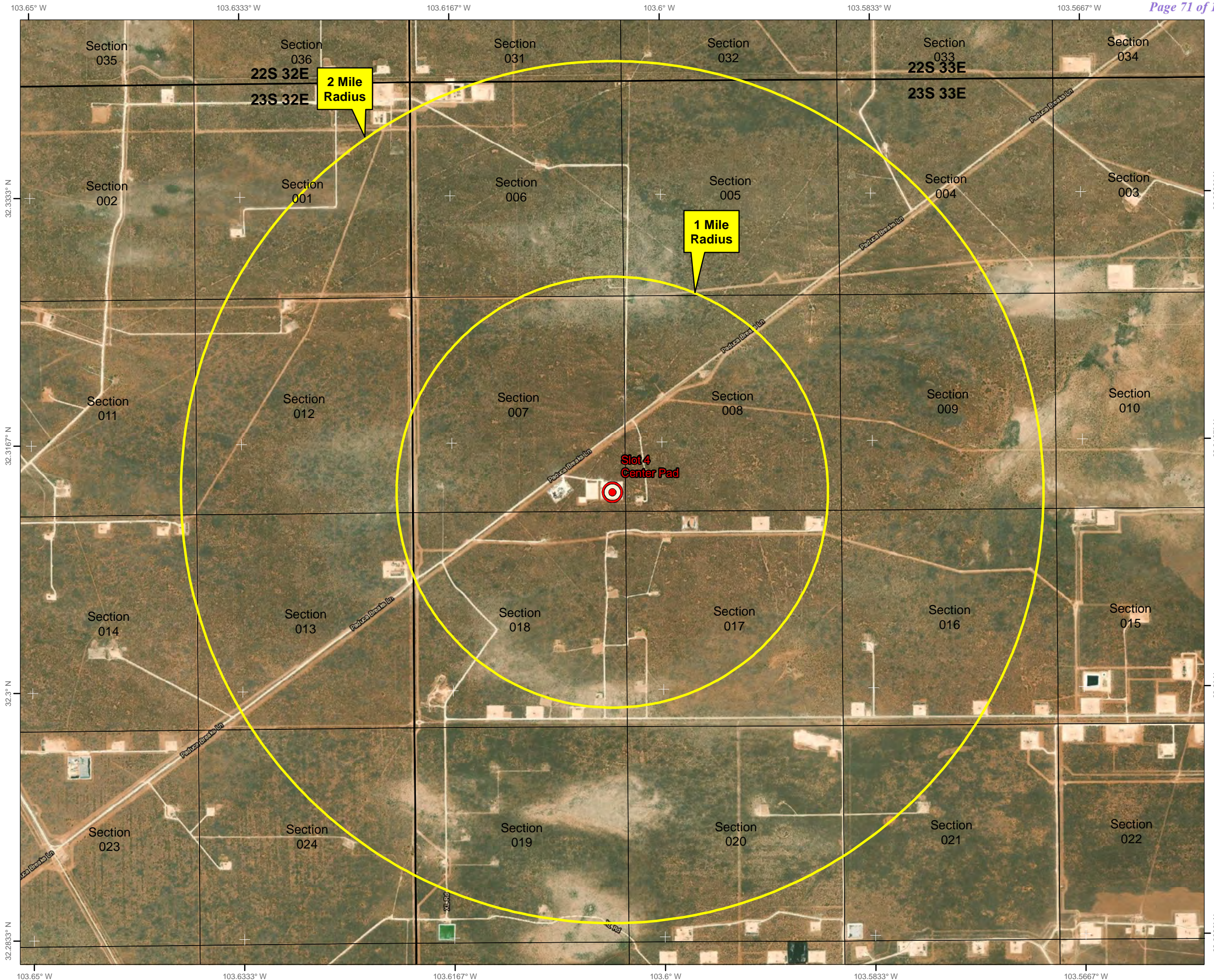
NAD 1983 New Mexico State Plane East
FIPS 3001 Feet



Prepared by Permits West, Inc., October 27, 2021
for Matador Production Company



Area of
Detail





SURVEY PROGRAM

WELL DETAILS: Rodney Robinson Fed Com #128H

Depth From	Depth To	Survey/Plan	Tool			GL @ 3719.0	KB @ 3747.5usft			
0.0	20867.4	BLM Plan #1 (Wellbore #1)	MWD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
				0.0	0.0	478523.44	725416.11	32° 18' 48.485 N	103° 36' 13.275 W	

Company: Matador Production Company
Well: Rodney Robinson Fed Com #128H
County: Lea county, New Mexico
Wellbore: Wellbore #1
Plan: BLM Plan #1
Date: 1/31/2021

DESIGN TARGET DETAILS

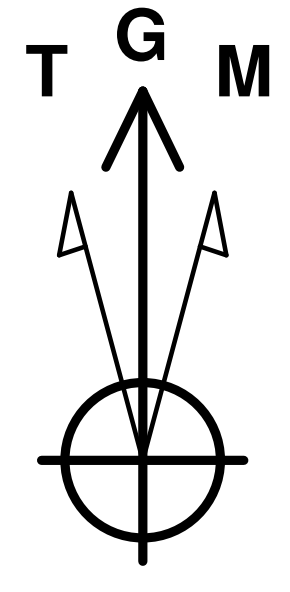
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
VP - Rodney Robinson Federal #128H	10027.0	-527.5	-641.2	477996.00	724775.00	32° 18' 43.309 N	103° 36' 20.787 W
BHL - Rodney Robinson Federal #128H	10429.0	9927.2	-704.0	488450.41	724712.12	32° 20' 26.764 N	103° 36' 20.692 W

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
1500.0	0.00	0.00	1500.0	0.0	0.0	0.00	0.00	0.0	Start Build 1.00
2300.0	8.00	230.56	2297.4	-35.4	-43.1	1.00	230.56	-35.0	Start 5298.2 hold at 2300.0 MD
7598.2	8.00	230.56	7544.1	-503.9	-612.5	0.00	0.00	-497.8	Start Drop -1.50
8131.5	0.00	0.00	8075.7	-527.5	-641.2	1.50	180.00	-521.1	Start 1951.3 hold at 8131.5 MD
10082.9	0.00	0.00	10027.0	-527.5	-641.2	0.00	0.00	-521.1	Start Build 10.00
10982.9	90.00	3.00	10600.0	44.7	-611.2	10.00	3.00	50.7	Start DLS 2.00 TFO -74.34
11168.3	91.00	359.43	10598.3	230.0	-607.3	2.00	-74.34	236.1	Start 9699.1 hold at 11168.3 MD
20867.4	91.00	359.43	10429.0	9927.2	-704.0	0.00	0.00	9933.7	TD at 20867.4

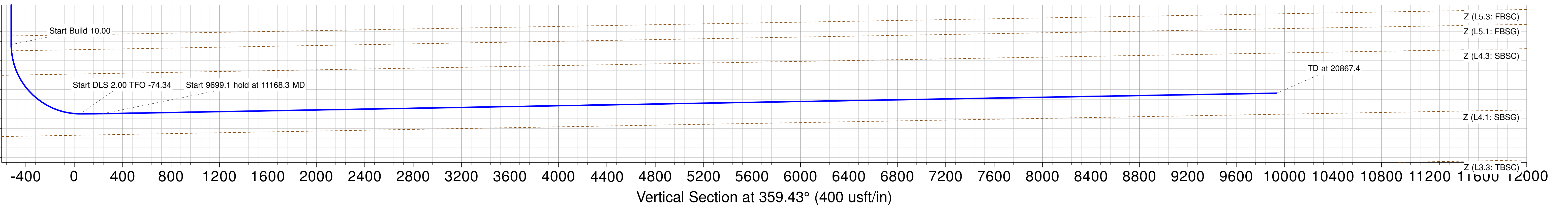
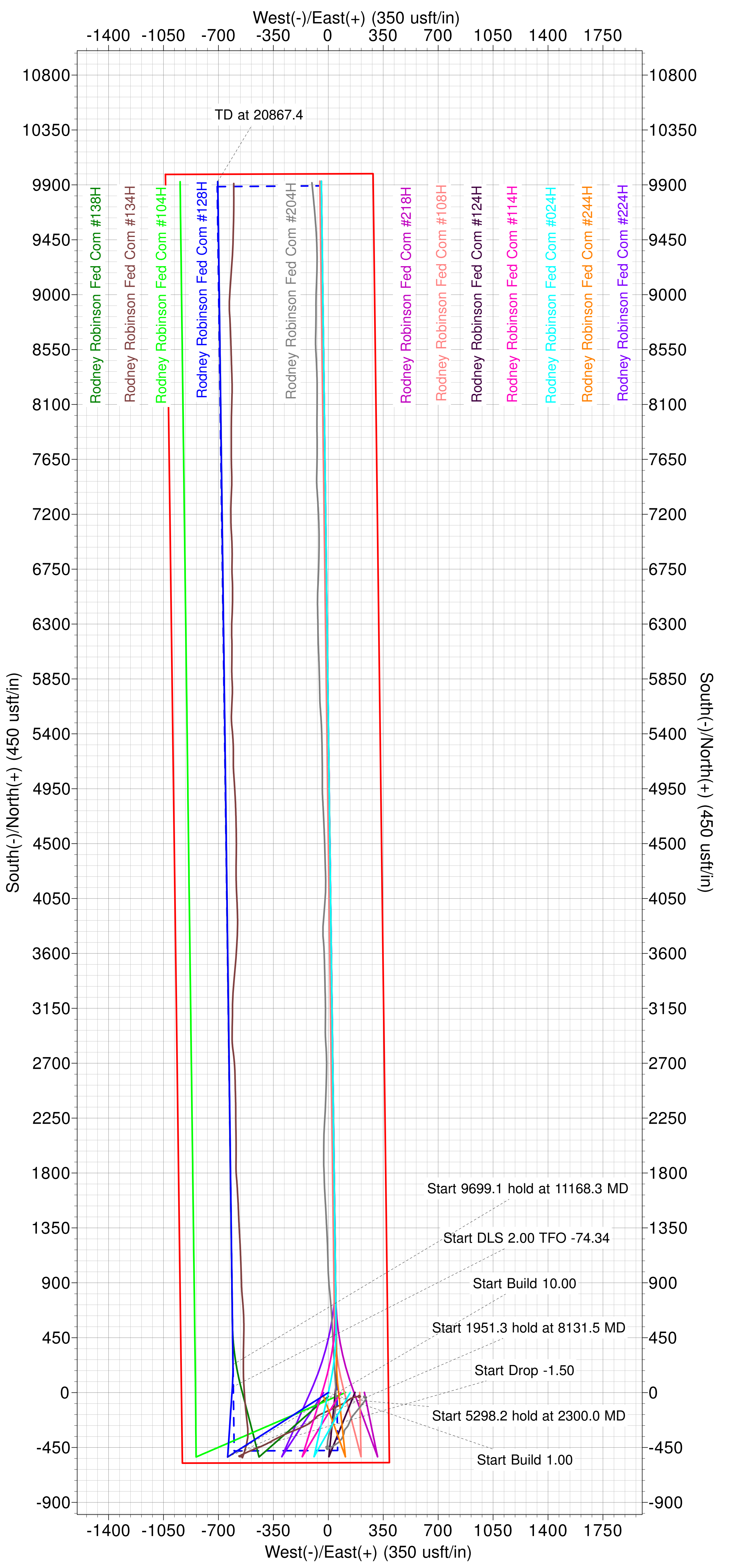
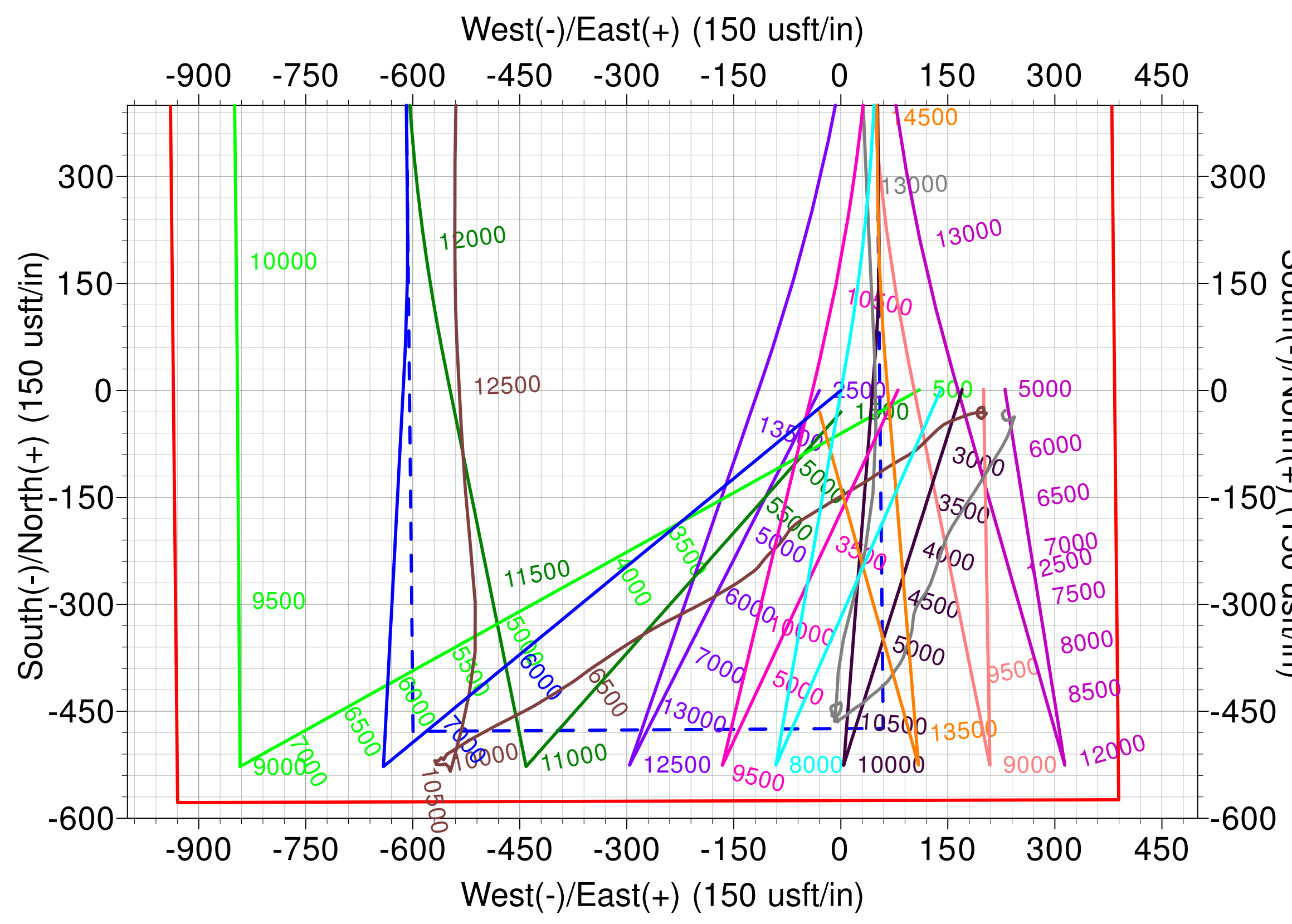
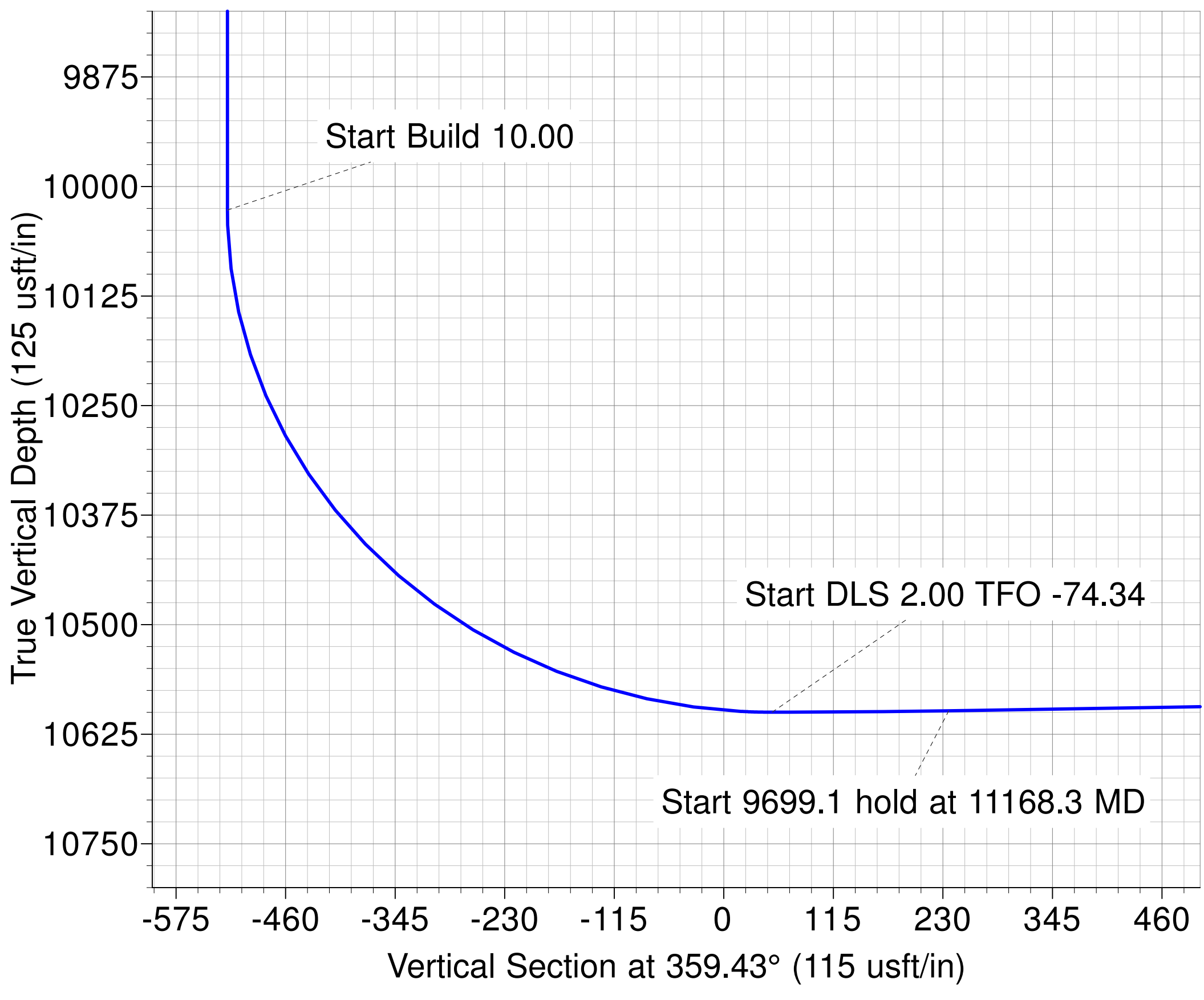
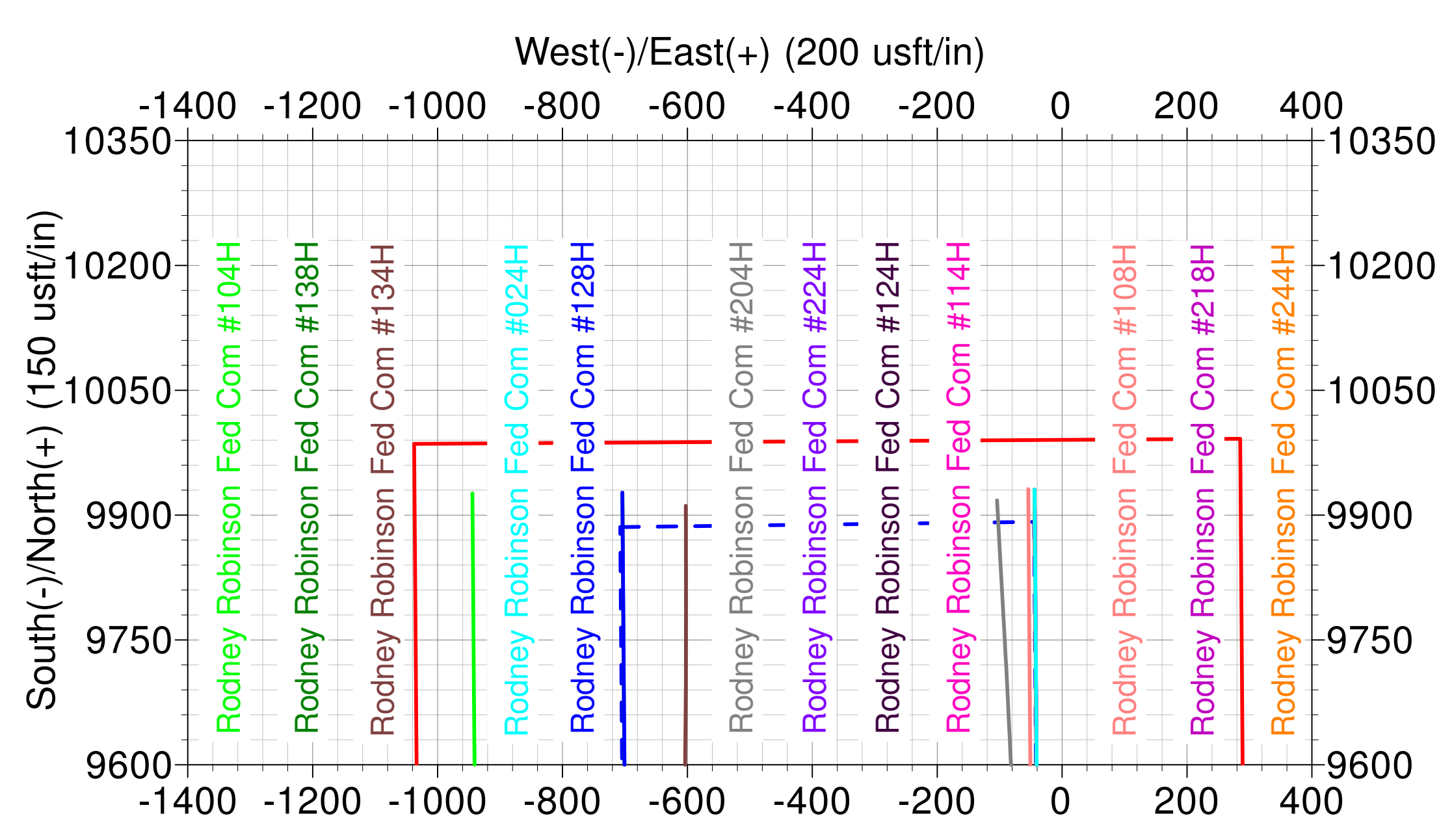
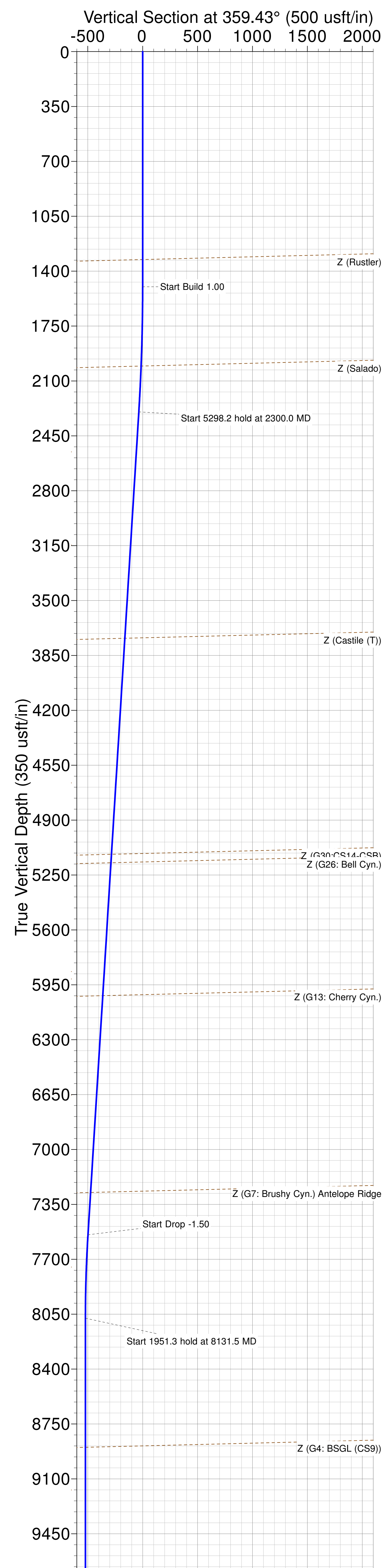
Geodetic System: US State Plane 1927 (Exact solution)
 Datum: NAD 1927 (NADCON CONUS)
 Ellipsoid: Clarke 1866
 Zone: New Mexico East 3001
 System Datum: Mean Sea Level

To convert a Magnetic Direction to a Grid Direction, Add 6.19°
 To convert a Magnetic Direction to a True Direction, Add 6.58° East
 To convert a True Direction to a Grid Direction, Subtract 0.39°



Azimuths to Grid North
 True North: -0.39°
 Magnetic North: 6.19°

Magnetic Field
 Strength: 47612.7snT
 Dip Angle: 60.09°
 Date: 1/31/2021
 Model: IGRF2015



Matador Production Company

Antelope Ridge

Rodney Robinson

Rodney Robinson Fed Com #128H

Wellbore #1

Plan: BLM Plan #1

Standard Planning Report

26 March, 2021

Planning Report

Database:	EDM 5000.14 Server	Local Co-ordinate Reference:	Well Rodney Robinson Fed Com #128H
Company:	Matador Production Company	TVD Reference:	KB @ 3747.5usft
Project:	Antelope Ridge	MD Reference:	KB @ 3747.5usft
Site:	Rodney Robinson	North Reference:	Grid
Well:	Rodney Robinson Fed Com #128H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	BLM Plan #1		

Project	Antelope Ridge		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		Using geodetic scale factor

Site	Rodney Robinson				
Site Position:		Northing:	478,347.00 usft	Latitude:	32° 18' 46.826 N
From:	Map	Easting:	724,121.00 usft	Longitude:	103° 36' 28.379 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.39 °

Well	Rodney Robinson Fed Com #128H					
Well Position	+N/-S	176.4 usft	Northing:	478,523.44 usft	Latitude:	32° 18' 48.485 N
	+E/-W	1,295.2 usft	Easting:	725,416.11 usft	Longitude:	103° 36' 13.275 W
Position Uncertainty		0.0 usft	Wellhead Elevation:		Ground Level:	3,719.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	1/31/2021	6.58	60.09	47,612.67563847

Design	BLM Plan #1				
Audit Notes:					
Version:	1	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	359.43	

Plan Survey Tool Program	Date	3/26/2021			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.0	20,867.4 BLM Plan #1 (Wellbore #1)	MWD		
			OWSG MWD - Standard		

Plan Sections											
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target	
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	
2,300.0	8.00	230.56	2,297.4	-35.4	-43.1	1.00	1.00	0.00	230.56		
7,598.2	8.00	230.56	7,544.1	-503.9	-612.5	0.00	0.00	0.00	0.00		
8,131.5	0.00	0.00	8,075.7	-527.5	-641.2	1.50	-1.50	0.00	180.00		
10,082.9	0.00	0.00	10,027.0	-527.5	-641.2	0.00	0.00	0.00	0.00	VP - Rodney Robin:	
10,982.9	90.00	3.00	10,600.0	44.7	-611.2	10.00	10.00	0.00	3.00		
11,168.3	91.00	359.43	10,598.3	230.0	-607.3	2.00	0.54	-1.93	-74.34		
20,867.4	91.00	359.43	10,429.0	9,927.2	-704.0	0.00	0.00	0.00	0.00	BHL - Rodney Robi	

Planning Report

Database:	EDM 5000.14 Server	Local Co-ordinate Reference:	Well Rodney Robinson Fed Com #128H
Company:	Matador Production Company	TVD Reference:	KB @ 3747.5usft
Project:	Antelope Ridge	MD Reference:	KB @ 3747.5usft
Site:	Rodney Robinson	North Reference:	Grid
Well:	Rodney Robinson Fed Com #128H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	BLM Plan #1		

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)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,326.0	0.00	0.00	1,326.0	0.0	0.0	0.0	0.00	0.00	0.00
Z (Rustler)									
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
Start Build 1.00									
1,600.0	1.00	230.56	1,600.0	-0.6	-0.7	-0.5	1.00	1.00	0.00
1,700.0	2.00	230.56	1,700.0	-2.2	-2.7	-2.2	1.00	1.00	0.00
1,800.0	3.00	230.56	1,799.9	-5.0	-6.1	-4.9	1.00	1.00	0.00
1,900.0	4.00	230.56	1,899.7	-8.9	-10.8	-8.8	1.00	1.00	0.00
2,000.0	5.00	230.56	1,999.4	-13.9	-16.8	-13.7	1.00	1.00	0.00
2,005.9	5.06	230.56	2,005.2	-14.2	-17.2	-14.0	1.00	1.00	0.00
Z (Salado)									
2,100.0	6.00	230.56	2,098.9	-19.9	-24.2	-19.7	1.00	1.00	0.00
2,200.0	7.00	230.56	2,198.3	-27.1	-33.0	-26.8	1.00	1.00	0.00
2,300.0	8.00	230.56	2,297.4	-35.4	-43.1	-35.0	1.00	1.00	0.00
Start 5298.2 hold at 2300.0 MD									
2,400.0	8.00	230.56	2,396.4	-44.3	-53.8	-43.7	0.00	0.00	0.00
2,500.0	8.00	230.56	2,495.5	-53.1	-64.6	-52.5	0.00	0.00	0.00
2,600.0	8.00	230.56	2,594.5	-62.0	-75.3	-61.2	0.00	0.00	0.00
2,700.0	8.00	230.56	2,693.5	-70.8	-86.1	-69.9	0.00	0.00	0.00
2,800.0	8.00	230.56	2,792.5	-79.6	-96.8	-78.7	0.00	0.00	0.00
2,900.0	8.00	230.56	2,891.6	-88.5	-107.5	-87.4	0.00	0.00	0.00
3,000.0	8.00	230.56	2,990.6	-97.3	-118.3	-96.1	0.00	0.00	0.00
3,100.0	8.00	230.56	3,089.6	-106.2	-129.0	-104.9	0.00	0.00	0.00
3,200.0	8.00	230.56	3,188.6	-115.0	-139.8	-113.6	0.00	0.00	0.00
3,300.0	8.00	230.56	3,287.7	-123.8	-150.5	-122.3	0.00	0.00	0.00
3,400.0	8.00	230.56	3,386.7	-132.7	-161.3	-131.1	0.00	0.00	0.00
3,500.0	8.00	230.56	3,485.7	-141.5	-172.0	-139.8	0.00	0.00	0.00
3,600.0	8.00	230.56	3,584.8	-150.4	-182.8	-148.5	0.00	0.00	0.00
3,700.0	8.00	230.56	3,683.8	-159.2	-193.5	-157.3	0.00	0.00	0.00
3,757.6	8.00	230.56	3,740.8	-164.3	-199.7	-162.3	0.00	0.00	0.00
Z (Castile (T))									
3,800.0	8.00	230.56	3,782.8	-168.1	-204.3	-166.0	0.00	0.00	0.00
3,900.0	8.00	230.56	3,881.8	-176.9	-215.0	-174.7	0.00	0.00	0.00
4,000.0	8.00	230.56	3,980.9	-185.7	-225.8	-183.5	0.00	0.00	0.00
4,100.0	8.00	230.56	4,079.9	-194.6	-236.5	-192.2	0.00	0.00	0.00
4,200.0	8.00	230.56	4,178.9	-203.4	-247.3	-201.0	0.00	0.00	0.00
4,300.0	8.00	230.56	4,277.9	-212.3	-258.0	-209.7	0.00	0.00	0.00
4,400.0	8.00	230.56	4,377.0	-221.1	-268.8	-218.4	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.14 Server	Local Co-ordinate Reference:	Well Rodney Robinson Fed Com #128H
Company:	Matador Production Company	TVD Reference:	KB @ 3747.5usft
Project:	Antelope Ridge	MD Reference:	KB @ 3747.5usft
Site:	Rodney Robinson	North Reference:	Grid
Well:	Rodney Robinson Fed Com #128H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	BLM Plan #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
4,500.0	8.00	230.56	4,476.0	-229.9	-279.5	-227.2	0.00	0.00	0.00	
4,600.0	8.00	230.56	4,575.0	-238.8	-290.3	-235.9	0.00	0.00	0.00	
4,700.0	8.00	230.56	4,674.0	-247.6	-301.0	-244.6	0.00	0.00	0.00	
4,800.0	8.00	230.56	4,773.1	-256.5	-311.8	-253.4	0.00	0.00	0.00	
4,900.0	8.00	230.56	4,872.1	-265.3	-322.5	-262.1	0.00	0.00	0.00	
5,000.0	8.00	230.56	4,971.1	-274.2	-333.2	-270.8	0.00	0.00	0.00	
5,100.0	8.00	230.56	5,070.2	-283.0	-344.0	-279.6	0.00	0.00	0.00	
5,148.3	8.00	230.56	5,118.0	-287.3	-349.2	-283.8	0.00	0.00	0.00	
Z (G30:CS14-CSB)										
5,200.0	8.00	230.56	5,169.2	-291.8	-354.7	-288.3	0.00	0.00	0.00	
5,202.9	8.00	230.56	5,172.0	-292.1	-355.1	-288.6	0.00	0.00	0.00	
Z (G26: Bell Cyn.)										
5,300.0	8.00	230.56	5,268.2	-300.7	-365.5	-297.0	0.00	0.00	0.00	
5,400.0	8.00	230.56	5,367.2	-309.5	-376.2	-305.8	0.00	0.00	0.00	
5,500.0	8.00	230.56	5,466.3	-318.4	-387.0	-314.5	0.00	0.00	0.00	
5,600.0	8.00	230.56	5,565.3	-327.2	-397.7	-323.2	0.00	0.00	0.00	
5,700.0	8.00	230.56	5,664.3	-336.1	-408.5	-332.0	0.00	0.00	0.00	
5,800.0	8.00	230.56	5,763.3	-344.9	-419.2	-340.7	0.00	0.00	0.00	
5,900.0	8.00	230.56	5,862.4	-353.7	-430.0	-349.4	0.00	0.00	0.00	
6,000.0	8.00	230.56	5,961.4	-362.6	-440.7	-358.2	0.00	0.00	0.00	
6,058.5	8.00	230.56	6,019.3	-367.8	-447.0	-363.3	0.00	0.00	0.00	
Z (G13: Cherry Cyn.)										
6,100.0	8.00	230.56	6,060.4	-371.4	-451.5	-366.9	0.00	0.00	0.00	
6,200.0	8.00	230.56	6,159.4	-380.3	-462.2	-375.6	0.00	0.00	0.00	
6,300.0	8.00	230.56	6,258.5	-389.1	-473.0	-384.4	0.00	0.00	0.00	
6,400.0	8.00	230.56	6,357.5	-397.9	-483.7	-393.1	0.00	0.00	0.00	
6,500.0	8.00	230.56	6,456.5	-406.8	-494.5	-401.8	0.00	0.00	0.00	
6,600.0	8.00	230.56	6,555.6	-415.6	-505.2	-410.6	0.00	0.00	0.00	
6,700.0	8.00	230.56	6,654.6	-424.5	-516.0	-419.3	0.00	0.00	0.00	
6,800.0	8.00	230.56	6,753.6	-433.3	-526.7	-428.1	0.00	0.00	0.00	
6,900.0	8.00	230.56	6,852.6	-442.2	-537.5	-436.8	0.00	0.00	0.00	
7,000.0	8.00	230.56	6,951.7	-451.0	-548.2	-445.5	0.00	0.00	0.00	
7,100.0	8.00	230.56	7,050.7	-459.8	-558.9	-454.3	0.00	0.00	0.00	
7,200.0	8.00	230.56	7,149.7	-468.7	-569.7	-463.0	0.00	0.00	0.00	
7,300.0	8.00	230.56	7,248.7	-477.5	-580.4	-471.7	0.00	0.00	0.00	
7,325.8	8.00	230.56	7,274.3	-479.8	-583.2	-474.0	0.00	0.00	0.00	
Z (G7: Brushy Cyn.) Antelope Ridge										
7,400.0	8.00	230.56	7,347.8	-486.4	-591.2	-480.5	0.00	0.00	0.00	
7,500.0	8.00	230.56	7,446.8	-495.2	-601.9	-489.2	0.00	0.00	0.00	
7,598.2	8.00	230.56	7,544.1	-503.9	-612.5	-497.8	0.00	0.00	0.00	
Start Drop -1.50										
7,600.0	7.97	230.56	7,545.8	-504.0	-612.7	-497.9	1.50	-1.50	0.00	
7,700.0	6.47	230.56	7,645.0	-512.0	-622.4	-505.8	1.50	-1.50	0.00	
7,800.0	4.97	230.56	7,744.5	-518.4	-630.1	-512.1	1.50	-1.50	0.00	
7,900.0	3.47	230.56	7,844.3	-523.0	-635.8	-516.7	1.50	-1.50	0.00	
8,000.0	1.97	230.56	7,944.1	-526.1	-639.5	-519.7	1.50	-1.50	0.00	
8,100.0	0.47	230.56	8,044.1	-527.4	-641.1	-521.0	1.50	-1.50	0.00	
8,131.5	0.00	0.00	8,075.7	-527.5	-641.2	-521.1	1.50	-1.50	0.00	
Start 1951.3 hold at 8131.5 MD										
8,200.0	0.00	0.00	8,144.1	-527.5	-641.2	-521.1	0.00	0.00	0.00	
8,300.0	0.00	0.00	8,244.1	-527.5	-641.2	-521.1	0.00	0.00	0.00	
8,400.0	0.00	0.00	8,344.1	-527.5	-641.2	-521.1	0.00	0.00	0.00	
8,500.0	0.00	0.00	8,444.1	-527.5	-641.2	-521.1	0.00	0.00	0.00	

Planning Report

Database:	EDM 5000.14 Server	Local Co-ordinate Reference:	Well Rodney Robinson Fed Com #128H
Company:	Matador Production Company	TVD Reference:	KB @ 3747.5usft
Project:	Antelope Ridge	MD Reference:	KB @ 3747.5usft
Site:	Rodney Robinson	North Reference:	Grid
Well:	Rodney Robinson Fed Com #128H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	BLM Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,600.0	0.00	0.00	8,544.1	-527.5	-641.2	-521.1	0.00	0.00	0.00
8,700.0	0.00	0.00	8,644.1	-527.5	-641.2	-521.1	0.00	0.00	0.00
8,800.0	0.00	0.00	8,744.1	-527.5	-641.2	-521.1	0.00	0.00	0.00
8,900.0	0.00	0.00	8,844.1	-527.5	-641.2	-521.1	0.00	0.00	0.00
8,955.0	0.00	0.00	8,899.1	-527.5	-641.2	-521.1	0.00	0.00	0.00
Z (G4: BSGI (CS9))									
9,000.0	0.00	0.00	8,944.1	-527.5	-641.2	-521.1	0.00	0.00	0.00
9,100.0	0.00	0.00	9,044.1	-527.5	-641.2	-521.1	0.00	0.00	0.00
9,200.0	0.00	0.00	9,144.1	-527.5	-641.2	-521.1	0.00	0.00	0.00
9,300.0	0.00	0.00	9,244.1	-527.5	-641.2	-521.1	0.00	0.00	0.00
9,400.0	0.00	0.00	9,344.1	-527.5	-641.2	-521.1	0.00	0.00	0.00
9,500.0	0.00	0.00	9,444.1	-527.5	-641.2	-521.1	0.00	0.00	0.00
9,600.0	0.00	0.00	9,544.1	-527.5	-641.2	-521.1	0.00	0.00	0.00
9,700.0	0.00	0.00	9,644.1	-527.5	-641.2	-521.1	0.00	0.00	0.00
9,800.0	0.00	0.00	9,744.1	-527.5	-641.2	-521.1	0.00	0.00	0.00
9,900.0	0.00	0.00	9,844.1	-527.5	-641.2	-521.1	0.00	0.00	0.00
10,000.0	0.00	0.00	9,944.1	-527.5	-641.2	-521.1	0.00	0.00	0.00
10,012.0	0.00	0.00	9,956.1	-527.5	-641.2	-521.1	0.00	0.00	0.00
Z (L5.3: FBSC)									
10,082.9	0.00	0.00	10,027.0	-527.5	-641.2	-521.1	0.00	0.00	0.00
Start Build 10.00 - VP - Rodney Robinson Federal #128H									
10,100.0	1.71	3.00	10,044.1	-527.3	-641.2	-520.8	10.00	10.00	0.00
10,135.0	5.21	3.00	10,079.1	-525.1	-641.1	-518.7	10.00	10.00	0.00
Z (L5.1: FBSC)									
10,200.0	11.71	3.00	10,143.3	-515.6	-640.6	-509.2	10.00	10.00	0.00
10,300.0	21.71	3.00	10,239.0	-486.9	-639.1	-480.5	10.00	10.00	0.00
10,343.9	26.10	3.00	10,279.1	-469.2	-638.1	-462.8	10.00	10.00	0.00
Z (L4.3: SBSC)									
10,400.0	31.71	3.00	10,328.2	-442.1	-636.7	-435.7	10.00	10.00	0.00
10,500.0	41.71	3.00	10,408.2	-382.5	-633.6	-376.1	10.00	10.00	0.00
10,600.0	51.71	3.00	10,476.7	-309.9	-629.8	-303.6	10.00	10.00	0.00
10,700.0	61.71	3.00	10,531.5	-226.5	-625.4	-220.3	10.00	10.00	0.00
10,800.0	71.71	3.00	10,571.0	-134.9	-620.6	-128.7	10.00	10.00	0.00
10,900.0	81.71	3.00	10,594.0	-37.8	-615.5	-31.7	10.00	10.00	0.00
10,982.9	90.00	3.00	10,600.0	44.7	-611.2	50.7	10.00	10.00	0.00
Start DLS 2.00 TFO -74.34									
11,000.0	90.09	2.67	10,599.9	61.8	-610.4	67.8	2.00	0.54	-1.93
11,100.0	90.63	0.74	10,599.3	161.7	-607.4	167.7	2.00	0.54	-1.93
11,168.3	91.00	359.43	10,598.3	230.0	-607.3	236.1	2.00	0.54	-1.93
Start 9699.1 hold at 11168.3 MD									
11,200.0	91.00	359.43	10,597.8	261.7	-607.6	267.7	0.00	0.00	0.00
11,300.0	91.00	359.43	10,596.0	361.7	-608.6	367.7	0.00	0.00	0.00
11,400.0	91.00	359.43	10,594.3	461.6	-609.6	467.7	0.00	0.00	0.00
11,500.0	91.00	359.43	10,592.5	561.6	-610.6	567.7	0.00	0.00	0.00
11,600.0	91.00	359.43	10,590.8	661.6	-611.6	667.7	0.00	0.00	0.00
11,700.0	91.00	359.43	10,589.1	761.6	-612.6	767.6	0.00	0.00	0.00
11,800.0	91.00	359.43	10,587.3	861.6	-613.6	867.6	0.00	0.00	0.00
11,900.0	91.00	359.43	10,585.6	961.5	-614.6	967.6	0.00	0.00	0.00
12,000.0	91.00	359.43	10,583.8	1,061.5	-615.6	1,067.6	0.00	0.00	0.00
12,100.0	91.00	359.43	10,582.1	1,161.5	-616.6	1,167.6	0.00	0.00	0.00
12,200.0	91.00	359.43	10,580.3	1,261.5	-617.6	1,267.6	0.00	0.00	0.00
12,300.0	91.00	359.43	10,578.6	1,361.5	-618.6	1,367.6	0.00	0.00	0.00
12,400.0	91.00	359.43	10,576.8	1,461.4	-619.6	1,467.5	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.14 Server	Local Co-ordinate Reference:	Well Rodney Robinson Fed Com #128H
Company:	Matador Production Company	TVD Reference:	KB @ 3747.5usft
Project:	Antelope Ridge	MD Reference:	KB @ 3747.5usft
Site:	Rodney Robinson	North Reference:	Grid
Well:	Rodney Robinson Fed Com #128H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	BLM Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
12,500.0	91.00	359.43	10,575.1	1,561.4	-620.6	1,567.5	0.00	0.00	0.00
12,600.0	91.00	359.43	10,573.3	1,661.4	-621.6	1,667.5	0.00	0.00	0.00
12,700.0	91.00	359.43	10,571.6	1,761.4	-622.6	1,767.5	0.00	0.00	0.00
12,800.0	91.00	359.43	10,569.9	1,861.4	-623.6	1,867.5	0.00	0.00	0.00
12,900.0	91.00	359.43	10,568.1	1,961.3	-624.6	1,967.5	0.00	0.00	0.00
13,000.0	91.00	359.43	10,566.4	2,061.3	-625.6	2,067.4	0.00	0.00	0.00
13,100.0	91.00	359.43	10,564.6	2,161.3	-626.5	2,167.4	0.00	0.00	0.00
13,200.0	91.00	359.43	10,562.9	2,261.3	-627.5	2,267.4	0.00	0.00	0.00
13,300.0	91.00	359.43	10,561.1	2,361.3	-628.5	2,367.4	0.00	0.00	0.00
13,400.0	91.00	359.43	10,559.4	2,461.2	-629.5	2,467.4	0.00	0.00	0.00
13,500.0	91.00	359.43	10,557.6	2,561.2	-630.5	2,567.4	0.00	0.00	0.00
13,600.0	91.00	359.43	10,555.9	2,661.2	-631.5	2,667.4	0.00	0.00	0.00
13,700.0	91.00	359.43	10,554.1	2,761.2	-632.5	2,767.3	0.00	0.00	0.00
13,800.0	91.00	359.43	10,552.4	2,861.2	-633.5	2,867.3	0.00	0.00	0.00
13,900.0	91.00	359.43	10,550.6	2,961.1	-634.5	2,967.3	0.00	0.00	0.00
14,000.0	91.00	359.43	10,548.9	3,061.1	-635.5	3,067.3	0.00	0.00	0.00
14,100.0	91.00	359.43	10,547.2	3,161.1	-636.5	3,167.3	0.00	0.00	0.00
14,200.0	91.00	359.43	10,545.4	3,261.1	-637.5	3,267.3	0.00	0.00	0.00
14,300.0	91.00	359.43	10,543.7	3,361.1	-638.5	3,367.2	0.00	0.00	0.00
14,400.0	91.00	359.43	10,541.9	3,461.0	-639.5	3,467.2	0.00	0.00	0.00
14,500.0	91.00	359.43	10,540.2	3,561.0	-640.5	3,567.2	0.00	0.00	0.00
14,600.0	91.00	359.43	10,538.4	3,661.0	-641.5	3,667.2	0.00	0.00	0.00
14,700.0	91.00	359.43	10,536.7	3,761.0	-642.5	3,767.2	0.00	0.00	0.00
14,800.0	91.00	359.43	10,534.9	3,861.0	-643.5	3,867.2	0.00	0.00	0.00
14,900.0	91.00	359.43	10,533.2	3,960.9	-644.5	3,967.2	0.00	0.00	0.00
15,000.0	91.00	359.43	10,531.4	4,060.9	-645.5	4,067.1	0.00	0.00	0.00
15,100.0	91.00	359.43	10,529.7	4,160.9	-646.5	4,167.1	0.00	0.00	0.00
15,200.0	91.00	359.43	10,527.9	4,260.9	-647.5	4,267.1	0.00	0.00	0.00
15,300.0	91.00	359.43	10,526.2	4,360.9	-648.5	4,367.1	0.00	0.00	0.00
15,400.0	91.00	359.43	10,524.5	4,460.8	-649.5	4,467.1	0.00	0.00	0.00
15,500.0	91.00	359.43	10,522.7	4,560.8	-650.5	4,567.1	0.00	0.00	0.00
15,600.0	91.00	359.43	10,521.0	4,660.8	-651.5	4,667.0	0.00	0.00	0.00
15,700.0	91.00	359.43	10,519.2	4,760.8	-652.5	4,767.0	0.00	0.00	0.00
15,800.0	91.00	359.43	10,517.5	4,860.8	-653.5	4,867.0	0.00	0.00	0.00
15,900.0	91.00	359.43	10,515.7	4,960.7	-654.5	4,967.0	0.00	0.00	0.00
16,000.0	91.00	359.43	10,514.0	5,060.7	-655.5	5,067.0	0.00	0.00	0.00
16,100.0	91.00	359.43	10,512.2	5,160.7	-656.5	5,167.0	0.00	0.00	0.00
16,200.0	91.00	359.43	10,510.5	5,260.7	-657.5	5,267.0	0.00	0.00	0.00
16,300.0	91.00	359.43	10,508.7	5,360.7	-658.5	5,366.9	0.00	0.00	0.00
16,400.0	91.00	359.43	10,507.0	5,460.6	-659.5	5,466.9	0.00	0.00	0.00
16,500.0	91.00	359.43	10,505.3	5,560.6	-660.5	5,566.9	0.00	0.00	0.00
16,600.0	91.00	359.43	10,503.5	5,660.6	-661.5	5,666.9	0.00	0.00	0.00
16,700.0	91.00	359.43	10,501.8	5,760.6	-662.5	5,766.9	0.00	0.00	0.00
16,800.0	91.00	359.43	10,500.0	5,860.6	-663.4	5,866.9	0.00	0.00	0.00
16,900.0	91.00	359.43	10,498.3	5,960.5	-664.4	5,966.9	0.00	0.00	0.00
17,000.0	91.00	359.43	10,496.5	6,060.5	-665.4	6,066.8	0.00	0.00	0.00
17,100.0	91.00	359.43	10,494.8	6,160.5	-666.4	6,166.8	0.00	0.00	0.00
17,200.0	91.00	359.43	10,493.0	6,260.5	-667.4	6,266.8	0.00	0.00	0.00
17,300.0	91.00	359.43	10,491.3	6,360.5	-668.4	6,366.8	0.00	0.00	0.00
17,400.0	91.00	359.43	10,489.5	6,460.4	-669.4	6,466.8	0.00	0.00	0.00
17,500.0	91.00	359.43	10,487.8	6,560.4	-670.4	6,566.8	0.00	0.00	0.00
17,600.0	91.00	359.43	10,486.0	6,660.4	-671.4	6,666.7	0.00	0.00	0.00
17,700.0	91.00	359.43	10,484.3	6,760.4	-672.4	6,766.7	0.00	0.00	0.00
17,800.0	91.00	359.43	10,482.6	6,860.4	-673.4	6,866.7	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.14 Server	Local Co-ordinate Reference:	Well Rodney Robinson Fed Com #128H
Company:	Matador Production Company	TVD Reference:	KB @ 3747.5usft
Project:	Antelope Ridge	MD Reference:	KB @ 3747.5usft
Site:	Rodney Robinson	North Reference:	Grid
Well:	Rodney Robinson Fed Com #128H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	BLM Plan #1		

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)	
17,900.0	91.00	359.43	10,480.8	6,960.3	-674.4	6,966.7	0.00	0.00	0.00	
18,000.0	91.00	359.43	10,479.1	7,060.3	-675.4	7,066.7	0.00	0.00	0.00	
18,100.0	91.00	359.43	10,477.3	7,160.3	-676.4	7,166.7	0.00	0.00	0.00	
18,200.0	91.00	359.43	10,475.6	7,260.3	-677.4	7,266.7	0.00	0.00	0.00	
18,300.0	91.00	359.43	10,473.8	7,360.3	-678.4	7,366.6	0.00	0.00	0.00	
18,400.0	91.00	359.43	10,472.1	7,460.2	-679.4	7,466.6	0.00	0.00	0.00	
18,500.0	91.00	359.43	10,470.3	7,560.2	-680.4	7,566.6	0.00	0.00	0.00	
18,600.0	91.00	359.43	10,468.6	7,660.2	-681.4	7,666.6	0.00	0.00	0.00	
18,700.0	91.00	359.43	10,466.8	7,760.2	-682.4	7,766.6	0.00	0.00	0.00	
18,800.0	91.00	359.43	10,465.1	7,860.2	-683.4	7,866.6	0.00	0.00	0.00	
18,900.0	91.00	359.43	10,463.3	7,960.1	-684.4	7,966.5	0.00	0.00	0.00	
19,000.0	91.00	359.43	10,461.6	8,060.1	-685.4	8,066.5	0.00	0.00	0.00	
19,100.0	91.00	359.43	10,459.9	8,160.1	-686.4	8,166.5	0.00	0.00	0.00	
19,200.0	91.00	359.43	10,458.1	8,260.1	-687.4	8,266.5	0.00	0.00	0.00	
19,300.0	91.00	359.43	10,456.4	8,360.1	-688.4	8,366.5	0.00	0.00	0.00	
19,400.0	91.00	359.43	10,454.6	8,460.0	-689.4	8,466.5	0.00	0.00	0.00	
19,500.0	91.00	359.43	10,452.9	8,560.0	-690.4	8,566.5	0.00	0.00	0.00	
19,600.0	91.00	359.43	10,451.1	8,660.0	-691.4	8,666.4	0.00	0.00	0.00	
19,700.0	91.00	359.43	10,449.4	8,760.0	-692.4	8,766.4	0.00	0.00	0.00	
19,800.0	91.00	359.43	10,447.6	8,859.9	-693.4	8,866.4	0.00	0.00	0.00	
19,900.0	91.00	359.43	10,445.9	8,959.9	-694.4	8,966.4	0.00	0.00	0.00	
20,000.0	91.00	359.43	10,444.1	9,059.9	-695.4	9,066.4	0.00	0.00	0.00	
20,100.0	91.00	359.43	10,442.4	9,159.9	-696.4	9,166.4	0.00	0.00	0.00	
20,200.0	91.00	359.43	10,440.7	9,259.9	-697.4	9,266.3	0.00	0.00	0.00	
20,300.0	91.00	359.43	10,438.9	9,359.8	-698.4	9,366.3	0.00	0.00	0.00	
20,400.0	91.00	359.43	10,437.2	9,459.8	-699.3	9,466.3	0.00	0.00	0.00	
20,500.0	91.00	359.43	10,435.4	9,559.8	-700.3	9,566.3	0.00	0.00	0.00	
20,600.0	91.00	359.43	10,433.7	9,659.8	-701.3	9,666.3	0.00	0.00	0.00	
20,700.0	91.00	359.43	10,431.9	9,759.8	-702.3	9,766.3	0.00	0.00	0.00	
20,800.0	91.00	359.43	10,430.2	9,859.7	-703.3	9,866.3	0.00	0.00	0.00	
20,867.4	91.00	359.43	10,429.0	9,927.2	-704.0	9,933.7	0.00	0.00	0.00	
TD at 20867.4 - BHL - Rodney Robinson Federal #128H										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
VP - Rodney Robinso - plan hits target center - Point	0.00	0.00	10,027.0	-527.5	-641.2	477,996.00	724,775.00	32° 18' 43.309 N	103° 36' 20.787 W	
BHL - Rodney Robins - plan hits target center - Point	0.00	0.00	10,429.0	9,927.2	-704.0	488,450.41	724,712.11	32° 20' 26.764 N	103° 36' 20.692 W	

Planning Report

Database:	EDM 5000.14 Server	Local Co-ordinate Reference:	Well Rodney Robinson Fed Com #128H
Company:	Matador Production Company	TVD Reference:	KB @ 3747.5usft
Project:	Antelope Ridge	MD Reference:	KB @ 3747.5usft
Site:	Rodney Robinson	North Reference:	Grid
Well:	Rodney Robinson Fed Com #128H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	BLM Plan #1		

Formations					
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,326.0	1,326.0	Z (Rustler)		-1.00	359.43
2,005.9	2,005.2	Z (Salado)		-1.00	359.43
3,757.6	3,740.8	Z (Castile (T))		-1.00	359.43
5,148.3	5,118.0	Z (G30:CS14-CSB)		-1.00	359.43
5,202.9	5,172.0	Z (G26: Bell Cyn.)		-1.00	359.43
6,058.5	6,019.3	Z (G13: Cherry Cyn.)		-1.00	359.43
7,325.8	7,274.3	Z (G7: Brushy Cyn.)	Antelope Ridge	-1.00	359.43
8,955.0	8,899.1	Z (G4: BSGL (CS9))		-1.00	359.43
10,012.0	9,956.1	Z (L5.3: FBSC)		-1.00	359.43
10,135.0	10,079.1	Z (L5.1: FBSG)		-1.00	359.43
10,343.9	10,279.1	Z (L4.3: SBSC)		-1.00	359.43

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
1,500.0	1,500.0	0.0	0.0	Start Build 1.00
2,300.0	2,297.4	-35.4	-43.1	Start 5298.2 hold at 2300.0 MD
7,598.2	7,544.1	-503.9	-612.5	Start Drop -1.50
8,131.5	8,075.7	-527.5	-641.2	Start 1951.3 hold at 8131.5 MD
10,082.9	10,027.0	-527.5	-641.2	Start Build 10.00
10,982.9	10,600.0	44.7	-611.2	Start DLS 2.00 TFO -74.34
11,168.3	10,598.3	230.0	-607.3	Start 9699.1 hold at 11168.3 MD
20,867.4	10,429.0	9,927.2	-704.0	TD at 20867.4

Rodney Robinson Federal #128H
SHL: 575' FSL & 385' FEL Section 7
BHL: 60' FNL & 990' FEL Section 6
Township/Range: 23S 33E
Elevation Above Sea Level: 3720'

Drilling Operation Plan

Proposed Drilling Depth: 20867' MD / 10429' TVD

Type of well: Horizontal well, no pilot hole

Permitted Well Type: Oil

Geologic Name of Surface Formation Quaternary Deposits

KOP Lat/Long (NAD83): 32.31229035990485 / -103.60612618479973

TD Lat/Long (NAD83): 32.34088996458956 / -103.60623185712444

1. Estimated Tops

Formation	MD (ft)	TVD (ft)	Thickness (ft)	Lithology	Resource
Rustler	1,326	1,326	679	Anhydrite	Barren
Salado (Top of Salt)	2,005	2,005	1,733	Salt	Barren
Castile	3,738	3,738	1,429	Salt	Barren
Bell Canyon	5,167	5,167	846	Sandstone	Oil/Natural Gas
Cherry Canyon	6,013	6,013	1,253	Sandstone	Oil/Natural Gas
Brushy Canyon	7,266	7,266	1,624	Sandstone	Oil/Natural Gas
Bone Spring Lime	8,890	8,890	1,180	Limestone	Oil/Natural Gas
1st Bone Spring Sand	10,135	10,070	201	Sandstone	Oil/Natural Gas
KOP	10,083	10,027	-	Sandstone	Oil/Natural Gas
2nd Bone Spring Carb	10,344	10,271	-	Carbonate	Oil/Natural Gas
TD	20,867	10,429	-	Carbonate	Oil/Natural Gas

2. Notable Zones

2nd Bone Spring is the goal. All perforations will be within the setback requirements as prescribed or permitted by the New Mexico Oil Conservation Division. OSE estimated ground water depth at this location is 78

3. Pressure Control

Equipment

A 12,000' 5,000-psi BOP stack consisting of 3 rams with 2 pipe rams, 1 blind ram, and one annular preventer will be utilized below surface casing to TD. See attachments for BOP and choke manifold diagrams.

An accumulator complying with Onshore Order #2 requirements for the pressure rating of the BOP stack will be present. A rotating head will also be installed as needed.

Testing Procedure

Drill Plan

BOP will be inspected and operated as required in Onshore Order #2. Kelly cock and sub equipped with a full opening valve sized to fit the drill pipe and collars will be available on the rig floor in the open position.

A third party company will test the BOPs.

After setting surface casing, a minimum 5M BOPE system will be installed. Test pressures will be 250 psi low and 5,000 psi high with the annular preventer being tested to 250 psi low and 2500 psi high before drilling below surface shoe. In the event that the rig drills multiple wells on the pad and any seal subject to test pressures are broken, a full BOP test will be performed when the rig returns and the 5M BOPE system is re-installed.

Variance Request

Matador requests a variance to have the option of running a multi-bowl wellhead assembly for setting the Intermediate 1, and Production Strings. The BOPs will not be tested again unless any flanges are separated.

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

Matador requests a variance to have the option of batch drilling this well with other wells on the same pad. In the event that this well is batch drilled, the wellbore will be secured with a blind flange of like pressure. When the rig returns to this well and BOPs are installed, the operator will perform a full BOP test.

4. Casing & Cement

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

String	Hole Size (in)	Set MD (ft)	Set TVD (ft)	Casing Size (in)	Wt. (lb/ft)	Grade	Joint	Collapse	Burst	Tension
Surface	17.5	0 - 1351	0 - 1351	13.375	54.5	J-55	BUTT	1.125	1.125	1.8
Intermediate 1	9.875	0 - 10033	0 - 10033	7.625	29.7	P-110	BUTT	1.125	1.125	1.8
Production	6.75	0 - 20867	0 - 10429	5.5	20	P-110	Hunting TLW-SC	1.125	1.125	1.8

- All casing strings will be tested in accordance with Onshore Order #2 - III.B.1.h
- Rustler top will be validated via drilling parameters (i.e. reduction in ROP) and surface casing setting depth revised accordingly if needed
- All non-API joint connections will be of like or greater quality, and as run specification sheets will be on location for review
- Request the option to deepen the Intermediate 1 casing set depth to 80° in curve, no changes in pipe grade or weight is necessary.

Variance Request

Drill Plan

Matador request a variance to wave the centralizer requirement for the 7-5/8" casing and the 5-1/2" SF/Flush casing in the 6-3/4" hole.

If a DV tool is used, depth(s) will be adjusted based on hole conditions and cement volumes will be adjusted proportionally. DV tool will be set a minimum of 50 feet below previous casing and a minimum of 200 feet above the current shoe. Lab reports with the 500 psi compressive strength time for the cement will be onsite for review.

Matador request option to perform a bradenhead cement squeeze on Intermediate 1 string.

Matador request a variance to utilize a surface setting rig. If this is used, Matador request the option to drill either 17.5" or 20" surface hole.

String	Type	Sacks	Yield	Cu. Ft.	Weight	Percent Excess	Top of Cement	Class	Blend
Surface	Lead	680	1.72	1167	13.5	50%	0	C	5% NaCl + LCM
	Tail	250	1.38	347	14.8	50%	1051	C	5% NaCl + LCM
Intermediate 1	Lead	720	3.66	2619	10.3	35%	0	A/C	Bentonite + 1% CaCL2 + 8% NaCl + LCM
	Tail	210	1.38	290	13.2	35%	9033	A/C	5% NaCl + LCM
Production	Tail	750	1.35	1014	13.2	10%	9833	A/C	Fluid Loss + Dispersant + Retarder

5. Mud Program

An electronic Pason mud monitoring system complying with Onshore Order 2 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.

Hole Section	Hole Size (in)	Mud Type	Interval MD (ft)	Density (lb/gal)	Viscosity	Fluid Loss
Surface	17.5	Spud Mud	0 - 1351	8.4 - 8.8	28-30	NC
Intermediate 1	9.875	Diesel Brine Emulsion	1351 - 10033	8.7 - 9.4	28-30	NC
Production	6.75	OBM/Cut Brine	10033 - 20867	8.8 - 9.4	40-60	<20

6. Cores, Test, & Logs

No core or drill stem test is planned.

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 top of curve.

7. Down Hole Conditions

Drill Plan

No abnormal pressure or temperature is expected. Bottom hole pressure is 5098 psi. Maximum anticipated surface pressure is 2803 psi. Expected bottom hole temperature is 150 F.

In accordance with Onshore Order 6, Matador does not anticipate that there will be enough H₂S from the surface to the Bone Spring formations to meet the BLM's minimum requirements for the submission of an "H₂S Drilling Operation Plan" or "Public Protection Plan" for the drilling and completion of this well. Since we have an H₂S safety package on all wells, attached is an "H₂S Drilling Operations Plan". 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.



TEST REPORT

GATES ENGINEERING & SERVICES NORTH AMERICA
7603 Prairie Oak Dr.
Houston, TX 77086

PHONE: (281) 602 - 4119
FAX:
EMAIL: Troy.Schmidt@gates.com
WEB: www.gates.com

10K CHOKE & KILL ASSEMBLY PRESSURE TEST CERTIFICATE

Customer:	A-7 AUSTIN INC DBA AUSTIN HOSE
Customer Ref.:	4110435
Invoice No.:	513755

Test Date:	1/21/2019
Hose Serial No.:	H3-012119-5
Created By:	Cristian Rivera

Product Description:	10KF3.035.0CK41/1610KFLGFXFLT LE HT SSA
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End Fitting 1:	4 1/16 10K FLANGES FIXED
Gates Part No.:	68503010-9721632
Working Pressure:	10,000 psi.

End Fitting 2:	4 1/16 10K FLANGES FLOAT
Assembly Code:	L41422010819H3-012119-5
Test Pressure:	15,000 psi.

Gates Engineering & Services North America certifies that the following hose assembly has successfully passed all pressure testing requirements set forth in Gates specifications: GTS-04-052 (for 5K assemblies) or GTS-04-053 (10K assemblies), which include reference to Specification API 16C (2nd Edition); sections 7.5.4, 7.5.9, and 10.8.7. A test graph will accompany this test certificate to illustrate conformity to test requirements

Quality:	QUALITY
Date :	1/21/2019
Signature :	<i>[Signature]</i>

Production:	PRODUCTION
Date :	1/21/2019
Signature :	<i>[Signature]</i>

Form PTC - 01 Rev.0 2



Matador Production Company

Antelope Ridge

Rodney Robinson

Rodney Robinson Fed Com #128H

Wellbore #1

BLM Plan #1

Anticollision Report

26 March, 2021

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Rodney Robinson Fed Com #128H
Project:	Antelope Ridge	TVD Reference:	KB @ 3747.5usft
Reference Site:	Rodney Robinson	MD Reference:	KB @ 3747.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Rodney Robinson Fed Com #128H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Reference	BLM Plan #1		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	Stations	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 10,000.0 us	Error Surface:	Pedal Curve
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program	Date	3/26/2021		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	20,867.4	BLM Plan #1 (Wellbore #1)	MWD	OWSG MWD - Standard

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Rodney Robinson						
Rodney Robinson Fed Com #024H - Wellbore #1 - BLM	1,500.0	1,501.0	140.1	129.8	13.604	CC
Rodney Robinson Fed Com #024H - Wellbore #1 - BLM	1,600.0	1,601.0	140.8	129.8	12.798	ES
Rodney Robinson Fed Com #024H - Wellbore #1 - BLM	20,867.4	18,989.7	1,824.5	1,589.5	7.761	SF
Rodney Robinson Fed Com #104H - Wellbore #1 - BLM	2,396.2	2,401.1	48.5	31.7	2.881	CC
Rodney Robinson Fed Com #104H - Wellbore #1 - BLM	2,600.0	2,604.7	49.4	31.1	2.702	ES
Rodney Robinson Fed Com #104H - Wellbore #1 - BLM	2,900.0	2,904.4	53.5	33.2	2.636	SF
Rodney Robinson Fed Com #108H - Wellbore #1 - BLM	1,500.0	1,501.0	200.1	189.8	19.428	CC
Rodney Robinson Fed Com #108H - Wellbore #1 - BLM	1,600.0	1,601.0	200.7	189.7	18.250	ES
Rodney Robinson Fed Com #108H - Wellbore #1 - BLM	20,867.4	19,908.4	1,017.6	679.6	3.010	SF
Rodney Robinson Fed Com #114H - Wellbore #1 - BLM	1,500.0	1,500.0	80.1	69.8	7.780	CC
Rodney Robinson Fed Com #114H - Wellbore #1 - BLM	1,600.0	1,600.6	80.4	69.4	7.321	ES
Rodney Robinson Fed Com #114H - Wellbore #1 - BLM	20,867.4	20,295.2	775.9	351.3	1.828	SF
Rodney Robinson Fed Com #124H - Wellbore #1 - BLM	1,500.0	1,502.0	170.0	159.7	16.506	CC
Rodney Robinson Fed Com #124H - Wellbore #1 - BLM	1,600.0	1,602.0	170.7	159.7	15.514	ES
Rodney Robinson Fed Com #124H - Wellbore #1 - BLM	20,867.4	21,005.1	736.0	419.0	2.322	SF
Rodney Robinson Fed Com #134H - Wellbore #1 - Wellb	9,740.1	9,744.4	72.4	2.1	1.030	Level 2, CC
Rodney Robinson Fed Com #134H - Wellbore #1 - Wellb	10,150.0	10,153.8	73.6	0.1	1.001	Level 2, ES, SF
Rodney Robinson Fed Com #138H - Wellbore #1 - BLM	1,965.1	1,965.5	23.3	9.8	1.721	CC
Rodney Robinson Fed Com #138H - Wellbore #1 - BLM	2,000.0	2,000.4	23.5	9.7	1.704	ES, SF
Rodney Robinson Fed Com #204H - Wellbore #1 - Actua	537.2	537.3	228.5	225.1	68.504	CC
Rodney Robinson Fed Com #204H - Wellbore #1 - Actua	600.0	597.8	228.8	225.1	60.606	ES
Rodney Robinson Fed Com #204H - Wellbore #1 - Actua	10,500.0	10,422.1	632.3	557.9	8.492	SF
Rodney Robinson Fed Com #218H - Wellbore #1 - BLM	1,500.0	1,502.0	230.1	219.8	22.334	CC
Rodney Robinson Fed Com #218H - Wellbore #1 - BLM	1,600.0	1,602.0	230.7	219.7	20.970	ES
Rodney Robinson Fed Com #218H - Wellbore #1 - BLM	20,867.4	22,722.9	2,124.1	1,900.2	9.486	SF
Rodney Robinson Fed Com #224H - Wellbore #1 - BLM	2,017.1	2,017.4	18.9	5.0	1.361	Level 3, CC, ES, SF
Rodney Robinson Fed Com #244H - Wellbore #1 - BLM	1,000.0	1,001.0	42.4	35.7	6.322	CC
Rodney Robinson Fed Com #244H - Wellbore #1 - BLM	1,100.0	1,100.6	42.9	35.5	5.787	ES
Rodney Robinson Fed Com #244H - Wellbore #1 - BLM	1,300.0	1,299.6	46.8	38.1	5.333	SF

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Rodney Robinson Fed Com #128H
Project:	Antelope Ridge	TVD Reference:	KB @ 3747.5usft
Reference Site:	Rodney Robinson	MD Reference:	KB @ 3747.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Rodney Robinson Fed Com #128H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Rodney Robinson - Rodney Robinson Fed Com #024H - Wellbore #1 - BLM Plan #1													Offset Well Error:	0.0 usft
Survey Program: 0-MWD														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	1.0	-1.0	0.0	0.0	89.58	1.0	140.1	140.1					
100.0	100.0	101.0	99.0	0.1	0.1	89.58	1.0	140.1	140.1	139.8	0.26	539.008		
200.0	200.0	201.0	199.0	0.5	0.5	89.58	1.0	140.1	140.1	139.1	0.98	143.406		
300.0	300.0	301.0	299.0	0.8	0.8	89.58	1.0	140.1	140.1	138.4	1.69	82.705		
400.0	400.0	401.0	399.0	1.2	1.2	89.58	1.0	140.1	140.1	137.7	2.41	58.109		
500.0	500.0	501.0	499.0	1.6	1.6	89.58	1.0	140.1	140.1	137.0	3.13	44.789		
600.0	600.0	601.0	599.0	1.9	1.9	89.58	1.0	140.1	140.1	136.2	3.84	36.437		
700.0	700.0	701.0	699.0	2.3	2.3	89.58	1.0	140.1	140.1	135.5	4.56	30.710		
800.0	800.0	801.0	799.0	2.6	2.6	89.58	1.0	140.1	140.1	134.8	5.28	26.539		
900.0	900.0	901.0	899.0	3.0	3.0	89.58	1.0	140.1	140.1	134.1	6.00	23.365		
1,000.0	1,000.0	1,001.0	999.0	3.4	3.4	89.58	1.0	140.1	140.1	133.4	6.71	20.870		
1,100.0	1,100.0	1,101.0	1,099.0	3.7	3.7	89.58	1.0	140.1	140.1	132.7	7.43	18.856		
1,200.0	1,200.0	1,201.0	1,199.0	4.1	4.1	89.58	1.0	140.1	140.1	131.9	8.15	17.196		
1,300.0	1,300.0	1,301.0	1,299.0	4.4	4.4	89.58	1.0	140.1	140.1	131.2	8.86	15.805		
1,400.0	1,400.0	1,401.0	1,399.0	4.8	4.8	89.58	1.0	140.1	140.1	130.5	9.58	14.622		
1,500.0	1,500.0	1,501.0	1,499.0	5.1	5.2	89.58	1.0	140.1	140.1	129.8	10.30	13.604 CC		
1,600.0	1,600.0	1,601.0	1,599.0	5.5	5.5	-141.20	1.0	140.1	140.8	129.8	11.00	12.798 ES		
1,700.0	1,700.0	1,701.0	1,699.0	5.8	5.9	-141.84	1.0	140.1	142.8	131.1	11.69	12.217		
1,800.0	1,799.9	1,801.1	1,798.9	6.2	6.2	-142.88	1.0	140.1	146.3	133.9	12.38	11.812		
1,900.0	1,899.7	1,901.3	1,898.7	6.5	6.6	-144.24	1.0	140.1	151.2	138.1	13.08	11.559		
2,000.0	1,999.4	2,001.6	1,998.4	6.8	6.9	-145.87	1.0	140.1	157.6	143.8	13.78	11.439		
2,100.0	2,098.9	2,102.1	2,097.9	7.2	7.3	-147.69	1.0	140.1	165.7	151.2	14.48	11.438		
2,200.0	2,198.3	2,202.7	2,197.3	7.5	7.7	-149.61	1.0	140.1	175.3	160.1	15.19	11.544		
2,300.0	2,297.4	2,303.6	2,296.4	7.9	8.0	-151.58	1.0	140.1	186.7	170.8	15.90	11.746		
2,400.0	2,396.4	2,404.6	2,395.4	8.3	8.4	-153.48	1.0	140.1	199.1	182.5	16.61	11.988		
2,500.0	2,495.5	2,505.5	2,494.5	8.7	8.8	-155.16	1.0	140.1	211.7	194.4	17.32	12.221		
2,600.0	2,594.5	2,606.5	2,593.5	9.0	9.1	-156.65	1.0	140.1	224.4	206.4	18.03	12.443		
2,700.0	2,693.5	2,707.5	2,692.5	9.4	9.5	-157.98	1.0	140.1	237.3	218.5	18.75	12.655		
2,800.0	2,792.5	2,808.5	2,791.5	9.8	9.8	-159.18	1.0	140.1	250.2	230.8	19.46	12.856		
2,900.0	2,891.6	2,909.4	2,890.6	10.2	10.2	-160.25	1.0	140.1	263.3	243.1	20.18	13.047		
3,000.0	2,990.6	2,989.6	2,989.6	10.6	10.5	-161.22	1.0	140.1	276.5	255.6	20.82	13.276		
3,100.0	3,089.6	3,091.9	3,091.9	11.0	10.8	-162.03	0.4	139.8	289.2	267.6	21.54	13.428		
3,200.0	3,188.6	3,195.0	3,195.0	11.4	11.2	-162.54	-2.0	138.7	300.7	278.4	22.23	13.525		
3,300.0	3,287.7	3,298.5	3,298.3	11.8	11.5	-162.76	-6.1	137.0	310.9	288.0	22.93	13.560		
3,400.0	3,386.7	3,402.2	3,401.8	12.2	11.9	-162.74	-11.9	134.4	319.8	296.2	23.63	13.537		
3,500.0	3,485.7	3,506.1	3,505.4	12.6	12.2	-162.49	-19.4	131.1	327.5	303.1	24.33	13.460		
3,600.0	3,584.8	3,610.1	3,609.0	13.0	12.6	-162.02	-28.7	127.0	333.8	308.8	25.04	13.333		
3,700.0	3,683.8	3,714.2	3,712.4	13.4	12.9	-161.35	-39.7	122.2	338.9	313.2	25.75	13.161		
3,800.0	3,782.8	3,817.6	3,814.8	13.8	13.3	-160.47	-52.3	116.7	342.8	316.3	26.48	12.947		
3,900.0	3,881.8	3,917.4	3,913.6	14.2	13.7	-159.58	-65.0	111.1	346.4	319.1	27.22	12.726		
4,000.0	3,980.9	4,017.2	4,012.5	14.6	14.1	-158.70	-77.7	105.5	350.0	322.0	27.97	12.515		
4,100.0	4,079.9	4,117.0	4,111.3	15.0	14.5	-157.84	-90.4	100.0	353.7	325.0	28.72	12.314		
4,200.0	4,178.9	4,216.8	4,210.1	15.4	14.9	-157.00	-103.1	94.4	357.5	328.0	29.49	12.121		
4,300.0	4,277.9	4,316.6	4,308.9	15.8	15.3	-156.17	-115.9	88.8	361.4	331.1	30.27	11.937		
4,400.0	4,377.0	4,416.3	4,407.7	16.3	15.8	-155.36	-128.6	83.2	365.3	334.3	31.06	11.761		
4,500.0	4,476.0	4,516.1	4,506.6	16.7	16.2	-154.57	-141.3	77.6	369.3	337.5	31.86	11.593		
4,600.0	4,575.0	4,615.9	4,605.4	17.1	16.7	-153.80	-154.0	72.0	373.4	340.7	32.66	11.432		
4,700.0	4,674.0	4,715.7	4,704.2	17.5	17.1	-153.05	-166.7	66.5	377.6	344.1	33.48	11.279		
4,800.0	4,773.1	4,815.5	4,803.0	17.9	17.6	-152.31	-179.5	60.9	381.8	347.5	34.30	11.131		
4,900.0	4,872.1	4,915.3	4,901.8	18.3	18.0	-151.58	-192.2	55.3	386.0	350.9	35.13	10.990		
5,000.0	4,971.1	5,015.1	5,000.7	18.7	18.5	-150.88	-204.9	49.7	390.4	354.4	35.96	10.855		
5,100.0	5,070.2	5,114.9	5,099.5	19.2	19.0	-150.18	-217.6	44.1	394.8	358.0	36.81	10.726		

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Rodney Robinson Fed Com #128H
Project:	Antelope Ridge	TVD Reference:	KB @ 3747.5usft
Reference Site:	Rodney Robinson	MD Reference:	KB @ 3747.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Rodney Robinson Fed Com #128H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference				Offset			Semi Major Axis			Distance			Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Tooface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.0	5,169.2	5,214.7	5,198.3	19.6	19.5	-149.51	-230.3	38.6	399.2	361.6	37.66	10.602		
5,300.0	5,268.2	5,314.5	5,297.1	20.0	19.9	-148.85	-243.0	33.0	403.7	365.2	38.51	10.483		
5,400.0	5,367.2	5,414.3	5,395.9	20.4	20.4	-148.20	-255.8	27.4	408.3	368.9	39.38	10.369		
5,500.0	5,466.3	5,514.0	5,494.8	20.8	20.9	-147.57	-268.5	21.8	412.9	372.7	40.24	10.260		
5,600.0	5,565.3	5,613.8	5,593.6	21.2	21.4	-146.95	-281.2	16.2	417.6	376.4	41.12	10.155		
5,700.0	5,664.3	5,713.6	5,692.4	21.6	21.9	-146.34	-293.9	10.7	422.3	380.3	42.00	10.055		
5,800.0	5,763.3	5,813.4	5,791.2	22.1	22.4	-145.75	-306.6	5.1	427.0	384.1	42.88	9.958		
5,900.0	5,862.4	5,913.2	5,890.0	22.5	22.9	-145.18	-319.4	-0.5	431.8	388.0	43.77	9.866		
6,000.0	5,961.4	6,013.0	5,988.9	22.9	23.4	-144.61	-332.1	-6.1	436.6	392.0	44.66	9.777		
6,100.0	6,060.4	6,112.8	6,087.7	23.3	23.9	-144.06	-344.8	-11.7	441.5	396.0	45.56	9.691		
6,200.0	6,159.4	6,212.6	6,186.5	23.7	24.4	-143.52	-357.5	-17.2	446.4	400.0	46.46	9.609		
6,300.0	6,258.5	6,312.4	6,285.3	24.2	24.9	-142.99	-370.2	-22.8	451.4	404.0	47.37	9.530		
6,400.0	6,357.5	6,412.2	6,384.1	24.6	25.4	-142.47	-382.9	-28.4	456.4	408.1	48.28	9.454		
6,500.0	6,456.5	6,512.0	6,483.0	25.0	25.9	-141.96	-395.7	-34.0	461.4	412.2	49.19	9.381		
6,600.0	6,555.6	6,611.7	6,581.8	25.4	26.4	-141.47	-408.4	-39.6	466.5	416.4	50.10	9.311		
6,700.0	6,654.6	6,711.5	6,680.6	25.8	26.9	-140.98	-421.1	-45.1	471.6	420.6	51.02	9.243		
6,800.0	6,753.6	6,811.3	6,779.4	26.3	27.5	-140.51	-433.8	-50.7	476.7	424.8	51.95	9.178		
6,900.0	6,852.6	6,911.1	6,878.2	26.7	28.0	-140.04	-446.5	-56.3	481.9	429.0	52.87	9.115		
7,000.0	6,951.7	7,010.9	6,977.1	27.1	28.5	-139.59	-459.2	-61.9	487.1	433.3	53.80	9.055		
7,100.0	7,050.7	7,110.7	7,075.9	27.5	29.0	-139.14	-472.0	-67.5	492.3	437.6	54.73	8.996		
7,200.0	7,149.7	7,210.5	7,174.7	27.9	29.5	-138.71	-484.7	-73.0	497.6	441.9	55.66	8.940		
7,300.0	7,248.7	7,308.1	7,271.4	28.4	30.0	-138.32	-496.9	-78.4	503.0	446.4	56.57	8.891		
7,400.0	7,347.8	7,403.3	7,365.9	28.8	30.5	-138.16	-506.9	-82.8	509.2	451.7	57.42	8.867		
7,500.0	7,446.8	7,498.4	7,460.6	29.2	30.9	-138.25	-514.8	-86.3	516.3	458.1	58.21	8.869		
7,598.2	7,544.1	7,591.5	7,553.6	29.6	31.3	-138.58	-520.4	-88.7	524.1	465.2	58.93	8.895		
7,600.0	7,545.8	7,593.2	7,555.3	29.6	31.3	-138.58	-520.5	-88.8	524.3	465.3	58.94	8.896		
7,700.0	7,645.0	7,687.8	7,649.8	30.0	31.7	-139.13	-524.1	-90.3	532.2	472.6	59.60	8.930		
7,800.0	7,744.5	7,782.4	7,744.3	30.4	32.0	-139.70	-525.5	-90.9	539.2	479.0	60.21	8.956		
7,900.0	7,844.3	7,881.3	7,843.3	30.8	32.2	-140.25	-525.5	-90.9	544.8	484.0	60.81	8.959		
8,000.0	7,944.1	7,981.2	7,943.1	31.2	32.5	-140.60	-525.5	-90.9	548.5	487.1	61.43	8.929		
8,100.0	8,044.1	8,081.1	8,043.1	31.5	32.8	-140.76	-525.5	-90.9	550.2	488.1	62.05	8.866		
8,131.5	8,075.7	8,112.7	8,074.7	31.6	32.9	89.79	-525.5	-90.9	550.3	488.0	62.25	8.840		
8,200.0	8,144.1	8,181.1	8,143.1	31.8	33.1	89.79	-525.5	-90.9	550.3	487.6	62.67	8.780		
8,300.0	8,244.1	8,267.9	8,229.6	32.1	33.3	89.28	-520.6	-90.1	551.3	488.2	63.08	8.740		
8,400.0	8,344.1	8,350.0	8,310.0	32.4	33.5	87.59	-504.2	-87.2	555.4	492.2	63.20	8.788		
8,500.0	8,444.1	8,425.7	8,381.3	32.7	33.6	85.05	-479.2	-82.9	563.8	500.8	62.97	8.953		
8,600.0	8,544.1	8,493.8	8,442.0	33.0	33.7	82.07	-449.0	-77.7	577.9	515.6	62.30	9.276		
8,700.0	8,644.1	8,550.0	8,489.1	33.3	33.8	79.19	-418.9	-72.4	599.2	538.1	61.05	9.815		
8,800.0	8,744.1	8,600.0	8,528.4	33.6	33.9	76.37	-388.3	-67.1	628.5	569.2	59.29	10.601		
8,900.0	8,844.1	8,650.0	8,564.7	34.0	33.9	73.40	-354.6	-61.3	666.1	608.8	57.28	11.629		
9,000.0	8,944.1	8,689.1	8,591.0	34.3	34.0	71.00	-326.1	-56.3	711.8	656.9	54.86	12.975		
9,100.0	9,044.1	8,722.4	8,611.8	34.6	34.1	68.93	-300.4	-51.9	764.8	712.5	52.28	14.628		
9,200.0	9,144.1	8,750.0	8,627.9	34.9	34.2	67.21	-278.3	-48.0	824.3	774.6	49.66	16.598		
9,300.0	9,244.1	8,776.4	8,642.2	35.2	34.3	65.58	-256.5	-44.2	889.3	842.1	47.22	18.832		
9,400.0	9,344.1	8,800.0	8,654.1	35.5	34.4	64.14	-236.4	-40.8	959.1	914.2	44.95	21.336		
9,500.0	9,444.1	8,817.7	8,662.5	35.8	34.5	63.06	-221.0	-38.1	1,032.9	990.1	42.79	24.139		
9,600.0	9,544.1	8,834.9	8,670.2	36.2	34.6	62.04	-206.0	-35.5	1,110.1	1,069.2	40.88	27.153		
9,700.0	9,644.1	8,850.0	8,676.6	36.5	34.7	61.14	-192.4	-33.1	1,190.0	1,150.9	39.18	30.376		
9,800.0	9,744.1	8,850.0	8,676.6	36.8	34.7	61.14	-192.4	-33.1	1,272.6	1,235.3	37.34	34.085		
9,900.0	9,844.1	8,875.9	8,686.7	37.1	34.8	59.64	-168.9	-29.0	1,356.7	1,320.4	36.36	37.317		
10,000.0	9,944.1	8,900.0	8,695.1	37.4	35.0	58.28	-146.7	-25.2	1,443.0	1,407.5	35.49	40.657		
10,082.9	10,027.0	8,900.0	8,695.1	37.7	35.0	58.28	-146.7	-25.2	1,515.2	1,480.8	34.46	43.976		

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Rodney Robinson Fed Com #128H
Project:	Antelope Ridge	TVD Reference:	KB @ 3747.5usft
Reference Site:	Rodney Robinson	MD Reference:	KB @ 3747.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Rodney Robinson Fed Com #128H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft		
Survey Program: 0-MWD													Rodney Robinson - Rodney Robinson Fed Com #024H - Wellbore #1 - BLM Plan #1		Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Tooface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
10,100.0	10,044.1	8,900.0	8,695.1	37.8	35.0	52.77	-146.7	-25.2	1,530.2	1,495.9	34.25	44.672				
10,150.0	10,094.0	8,900.0	8,695.1	37.9	35.0	46.28	-146.7	-25.2	1,573.3	1,539.7	33.66	46.737				
10,200.0	10,143.3	8,900.0	8,695.1	38.0	35.0	40.95	-146.7	-25.2	1,615.3	1,582.3	33.07	48.842				
10,250.0	10,191.8	8,900.0	8,695.1	38.2	35.0	36.58	-146.7	-25.2	1,656.0	1,623.5	32.49	50.967				
10,300.0	10,239.0	8,924.2	8,702.5	38.3	35.2	32.61	-124.0	-21.2	1,694.4	1,662.0	32.36	52.361				
10,350.0	10,284.5	8,932.6	8,704.9	38.4	35.2	29.68	-116.1	-19.9	1,731.2	1,699.2	31.94	54.207				
10,400.0	10,328.2	8,950.0	8,709.4	38.4	35.3	27.21	-99.5	-17.0	1,765.9	1,734.3	31.67	55.757				
10,450.0	10,369.5	8,950.0	8,709.4	38.5	35.3	25.33	-99.5	-17.0	1,798.2	1,767.1	31.14	57.744				
10,500.0	10,408.2	8,950.0	8,709.4	38.5	35.3	23.77	-99.5	-17.0	1,828.3	1,797.7	30.66	59.636				
10,550.0	10,444.1	8,971.1	8,714.3	38.5	35.5	22.39	-79.2	-13.5	1,855.6	1,825.1	30.51	60.814				
10,600.0	10,476.7	8,981.7	8,716.4	38.6	35.6	21.31	-69.0	-11.7	1,880.3	1,850.0	30.25	62.152				
10,650.0	10,505.9	9,000.0	8,719.6	38.6	35.8	20.42	-51.3	-8.6	1,902.2	1,872.1	30.13	63.139				
10,700.0	10,531.5	9,000.0	8,719.6	38.5	35.8	19.72	-51.3	-8.6	1,921.1	1,891.3	29.86	64.344				
10,750.0	10,553.3	9,000.0	8,719.6	38.5	35.8	19.15	-51.3	-8.6	1,937.3	1,907.7	29.68	65.277				
10,800.0	10,571.0	9,026.2	8,723.2	38.5	36.0	18.74	-25.7	-4.2	1,950.1	1,920.3	29.80	65.449				
10,850.0	10,584.6	9,050.0	8,725.4	38.4	36.2	18.46	-2.4	-0.1	1,960.1	1,930.2	29.93	65.480				
10,900.0	10,594.0	9,050.0	8,725.4	38.4	36.2	18.25	-2.4	-0.1	1,966.7	1,936.7	29.99	65.568				
10,950.0	10,599.0	9,050.0	8,725.4	38.4	36.2	18.14	-2.4	-0.1	1,970.4	1,940.2	30.17	65.316				
10,982.9	10,600.0	9,068.6	8,726.5	38.3	36.4	18.18	15.9	3.1	1,970.9	1,940.5	30.40	64.835				
10,987.2	10,600.0	9,069.6	8,726.5	38.3	36.5	18.18	16.9	3.2	1,970.9	1,940.4	30.43	64.778				
11,000.0	10,599.9	9,072.5	8,726.6	38.3	36.5	18.19	19.8	3.7	1,970.9	1,940.4	30.51	64.600				
11,100.0	10,599.3	9,112.2	8,727.0	38.2	36.9	18.30	58.9	10.5	1,973.4	1,942.0	31.35	62.951				
11,168.3	10,598.3	9,198.9	8,727.0	38.2	38.0	18.60	144.6	23.4	1,975.7	1,943.6	32.10	61.556				
11,200.0	10,597.8	9,239.3	8,727.0	38.3	38.6	18.76	184.6	28.5	1,976.6	1,944.1	32.48	60.863				
11,300.0	10,596.0	9,367.6	8,727.0	38.6	40.5	19.16	312.4	41.1	1,978.4	1,944.7	33.70	58.701				
11,400.0	10,594.3	9,497.0	8,727.0	39.1	42.7	19.40	441.5	48.0	1,978.9	1,943.9	34.99	56.562				
11,500.0	10,592.5	9,623.6	8,727.0	39.6	45.0	19.49	568.2	49.1	1,977.8	1,941.6	36.29	54.497				
11,600.0	10,590.8	9,723.6	8,727.0	40.1	47.0	19.50	668.2	48.1	1,976.2	1,938.6	37.56	52.619				
11,700.0	10,589.1	9,823.6	8,727.0	40.7	49.0	19.52	768.2	47.1	1,974.6	1,935.7	38.90	50.760				
11,800.0	10,587.3	9,923.6	8,727.0	41.4	51.2	19.54	868.1	46.1	1,972.9	1,932.6	40.32	48.935				
11,900.0	10,585.6	10,023.6	8,727.0	42.1	53.5	19.55	968.1	45.1	1,971.3	1,929.5	41.80	47.159				
12,000.0	10,583.8	10,123.6	8,727.0	42.9	55.8	19.57	1,068.1	44.1	1,969.6	1,926.3	43.34	45.442				
12,100.0	10,582.1	10,223.5	8,727.0	43.7	58.3	19.59	1,168.1	43.1	1,968.0	1,923.0	44.94	43.791				
12,200.0	10,580.3	10,323.5	8,727.0	44.6	60.7	19.61	1,268.1	42.1	1,966.3	1,919.7	46.59	42.208				
12,300.0	10,578.6	10,423.5	8,727.0	45.5	63.3	19.62	1,368.0	41.1	1,964.7	1,916.4	48.28	40.696				
12,400.0	10,576.8	10,523.5	8,727.0	46.4	65.9	19.64	1,468.0	40.1	1,963.0	1,913.0	50.01	39.255				
12,500.0	10,575.1	10,623.5	8,727.0	47.4	68.5	19.66	1,568.0	39.1	1,961.4	1,909.6	51.77	37.884				
12,600.0	10,573.3	10,723.5	8,727.0	48.4	71.1	19.67	1,668.0	38.1	1,959.8	1,906.2	53.57	36.580				
12,700.0	10,571.6	10,823.5	8,727.0	49.4	73.8	19.69	1,768.0	37.1	1,958.1	1,902.7	55.40	35.342				
12,800.0	10,569.9	10,923.4	8,727.0	50.5	76.5	19.71	1,867.9	36.1	1,956.5	1,899.2	57.26	34.166				
12,900.0	10,568.1	11,023.4	8,727.0	51.6	79.3	19.73	1,967.9	35.1	1,954.8	1,895.7	59.15	33.050				
13,000.0	10,566.4	11,123.4	8,727.0	52.8	82.1	19.74	2,067.9	34.1	1,953.2	1,892.1	61.05	31.991				
13,100.0	10,564.6	11,223.4	8,727.0	53.9	84.9	19.76	2,167.9	33.1	1,951.5	1,888.6	62.98	30.986				
13,200.0	10,562.9	11,323.4	8,727.0	55.1	87.7	19.78	2,267.9	32.2	1,949.9	1,885.0	64.93	30.031				
13,300.0	10,561.1	11,423.4	8,727.0	56.3	90.5	19.80	2,367.8	31.2	1,948.3	1,881.4	66.90	29.123				
13,400.0	10,559.4	11,523.3	8,727.0	57.6	93.3	19.81	2,467.8	30.2	1,946.6	1,877.7	68.88	28.261				
13,500.0	10,557.6	11,623.3	8,727.0	58.8	96.2	19.83	2,567.8	29.2	1,945.0	1,874.1	70.88	27.440				
13,600.0	10,555.9	11,723.3	8,727.0	60.1	99.1	19.85	2,667.8	28.2	1,943.3	1,870.4	72.89	26.660				
13,700.0	10,554.1	11,823.3	8,727.0	61.4	101.9	19.87	2,767.8	27.2	1,941.7	1,866.8	74.92	25.916				
13,800.0	10,552.4	11,923.3	8,727.0	62.7	104.8	19.88	2,867.7	26.2	1,940.0	1,863.1	76.96	25.208				
13,900.0	10,550.6	12,023.3	8,727.0	64.0	107.7	19.90	2,967.7	25.2	1,938.4	1,859.4	79.01	24.532				
14,000.0	10,548.9	12,123.3	8,727.0	65.4	110.7	19.92	3,067.7	24.2	1,936.8	1,855.7	81.08	23.888				

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Rodney Robinson Fed Com #128H
Project:	Antelope Ridge	TVD Reference:	KB @ 3747.5usft
Reference Site:	Rodney Robinson	MD Reference:	KB @ 3747.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Rodney Robinson Fed Com #128H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference				Offset		Semi Major Axis			Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Tooface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,100.0	10,547.2	12,223.2	8,727.0	66.7	113.6	19.94	3,167.7	23.2	1,935.1	1,852.0	83.15	23.272		
14,200.0	10,545.4	12,323.2	8,727.0	68.1	116.5	19.95	3,267.6	22.2	1,933.5	1,848.2	85.24	22.684		
14,300.0	10,543.7	12,423.2	8,727.0	69.5	119.4	19.97	3,367.6	21.2	1,931.8	1,844.5	87.33	22.121		
14,400.0	10,541.9	12,523.2	8,727.0	70.9	122.4	19.99	3,467.6	20.2	1,930.2	1,840.8	89.43	21.582		
14,500.0	10,540.2	12,623.2	8,727.0	72.3	125.3	20.01	3,567.6	19.2	1,928.6	1,837.0	91.55	21.067		
14,600.0	10,538.4	12,723.2	8,727.0	73.7	128.3	20.03	3,667.6	18.2	1,926.9	1,833.3	93.66	20.573		
14,700.0	10,536.7	12,823.2	8,727.0	75.1	131.3	20.04	3,767.5	17.2	1,925.3	1,829.5	95.79	20.099		
14,800.0	10,534.9	12,923.1	8,727.0	76.5	134.2	20.06	3,867.5	16.2	1,923.6	1,825.7	97.93	19.644		
14,900.0	10,533.2	13,023.1	8,727.0	78.0	137.2	20.08	3,967.5	15.3	1,922.0	1,821.9	100.07	19.207		
15,000.0	10,531.4	13,123.1	8,727.0	79.4	140.2	20.10	4,067.5	14.3	1,920.4	1,818.2	102.22	18.787		
15,100.0	10,529.7	13,223.1	8,727.0	80.9	143.2	20.12	4,167.5	13.3	1,918.7	1,814.4	104.37	18.384		
15,200.0	10,527.9	13,323.1	8,727.0	82.4	146.1	20.13	4,267.4	12.3	1,917.1	1,810.6	106.53	17.996		
15,300.0	10,526.2	13,423.1	8,727.0	83.8	149.1	20.15	4,367.4	11.3	1,915.5	1,806.8	108.70	17.622		
15,400.0	10,524.5	13,523.0	8,727.0	85.3	152.1	20.17	4,467.4	10.3	1,913.8	1,802.9	110.87	17.262		
15,500.0	10,522.7	13,623.0	8,727.0	86.8	155.1	20.19	4,567.4	9.3	1,912.2	1,799.1	113.05	16.915		
15,600.0	10,521.0	13,723.0	8,727.0	88.3	158.1	20.21	4,667.4	8.3	1,910.5	1,795.3	115.23	16.580		
15,700.0	10,519.2	13,823.0	8,727.0	89.8	161.1	20.22	4,767.3	7.3	1,908.9	1,791.5	117.42	16.257		
15,800.0	10,517.5	13,923.0	8,727.0	91.3	164.1	20.24	4,867.3	6.3	1,907.3	1,787.7	119.61	15.946		
15,900.0	10,515.7	14,023.0	8,727.0	92.8	167.1	20.26	4,967.3	5.3	1,905.6	1,783.8	121.81	15.644		
16,000.0	10,514.0	14,123.0	8,727.0	94.3	170.1	20.28	5,067.3	4.3	1,904.0	1,780.0	124.01	15.353		
16,100.0	10,512.2	14,222.9	8,727.0	95.8	173.1	20.30	5,167.3	3.3	1,902.4	1,776.1	126.22	15.072		
16,200.0	10,510.5	14,322.9	8,727.0	97.3	176.2	20.32	5,267.2	2.3	1,900.7	1,772.3	128.43	14.800		
16,300.0	10,508.7	14,422.9	8,727.0	98.9	179.2	20.33	5,367.2	1.3	1,899.1	1,768.4	130.65	14.536		
16,400.0	10,507.0	14,522.9	8,727.0	100.4	182.2	20.35	5,467.2	0.3	1,897.4	1,764.6	132.87	14.281		
16,500.0	10,505.3	14,622.9	8,727.0	101.9	185.2	20.37	5,567.2	-0.7	1,895.8	1,760.7	135.09	14.034		
16,600.0	10,503.5	14,722.9	8,727.0	103.5	188.2	20.39	5,667.2	-1.6	1,894.2	1,756.9	137.32	13.794		
16,700.0	10,501.8	14,822.8	8,727.0	105.0	191.3	20.41	5,767.1	-2.6	1,892.5	1,753.0	139.55	13.562		
16,800.0	10,500.0	14,922.8	8,727.0	106.6	194.3	20.43	5,867.1	-3.6	1,890.9	1,749.1	141.79	13.336		
16,900.0	10,498.3	15,022.8	8,727.0	108.1	197.3	20.45	5,967.1	-4.6	1,889.3	1,745.2	144.03	13.118		
17,000.0	10,496.5	15,122.8	8,727.0	109.7	200.3	20.46	6,067.1	-5.6	1,887.6	1,741.4	146.27	12.905		
17,100.0	10,494.8	15,222.8	8,727.0	111.2	203.4	20.48	6,167.1	-6.6	1,886.0	1,737.5	148.52	12.699		
17,200.0	10,493.0	15,322.8	8,727.0	112.8	206.4	20.50	6,267.0	-7.6	1,884.4	1,733.6	150.77	12.498		
17,300.0	10,491.3	15,422.8	8,727.0	114.3	209.4	20.52	6,367.0	-8.6	1,882.7	1,729.7	153.02	12.304		
17,400.0	10,489.5	15,522.7	8,727.0	115.9	212.5	20.54	6,467.0	-9.6	1,881.1	1,725.8	155.28	12.114		
17,500.0	10,487.8	15,622.7	8,727.0	117.5	215.5	20.56	6,567.0	-10.6	1,879.5	1,721.9	157.54	11.930		
17,600.0	10,486.0	15,722.7	8,727.0	119.0	218.5	20.58	6,667.0	-11.6	1,877.8	1,718.0	159.80	11.751		
17,700.0	10,484.3	15,822.7	8,727.0	120.6	221.6	20.59	6,766.9	-12.6	1,876.2	1,714.1	162.07	11.576		
17,800.0	10,482.6	15,922.7	8,727.0	122.2	224.6	20.61	6,866.9	-13.6	1,874.6	1,710.2	164.34	11.406		
17,900.0	10,480.8	16,022.7	8,727.0	123.7	227.6	20.63	6,966.9	-14.6	1,872.9	1,706.3	166.62	11.241		
18,000.0	10,479.1	16,122.6	8,727.0	125.3	230.7	20.65	7,066.9	-15.6	1,871.3	1,702.4	168.89	11.080		
18,100.0	10,477.3	16,222.6	8,727.0	126.9	233.7	20.67	7,166.9	-16.6	1,869.7	1,698.5	171.17	10.922		
18,200.0	10,475.6	16,322.6	8,727.0	128.5	236.8	20.69	7,266.8	-17.6	1,868.0	1,694.6	173.46	10.769		
18,300.0	10,473.8	16,422.6	8,727.0	130.1	239.8	20.71	7,366.8	-18.5	1,866.4	1,690.6	175.75	10.620		
18,400.0	10,472.1	16,522.6	8,727.0	131.7	242.9	20.73	7,466.8	-19.5	1,864.8	1,686.7	178.04	10.474		
18,500.0	10,470.3	16,622.6	8,727.0	133.2	245.9	20.75	7,566.8	-20.5	1,863.1	1,682.8	180.33	10.332		
18,600.0	10,468.6	16,722.6	8,727.0	134.8	248.9	20.77	7,666.8	-21.5	1,861.5	1,678.9	182.62	10.193		
18,700.0	10,466.8	16,822.5	8,727.0	136.4	252.0	20.78	7,766.7	-22.5	1,859.9	1,674.9	184.92	10.058		
18,800.0	10,465.1	16,922.5	8,727.0	138.0	255.0	20.80	7,866.7	-23.5	1,858.2	1,671.0	187.22	9.925		
18,900.0	10,463.3	17,022.5	8,727.0	139.6	258.1	20.82	7,966.7	-24.5	1,856.6	1,667.1	189.53	9.796		
19,000.0	10,461.6	17,122.5	8,727.0	141.2	261.1	20.84	8,066.7	-25.5	1,855.0	1,663.1	191.84	9.669		
19,100.0	10,459.9	17,222.5	8,727.0	142.8	264.2	20.86	8,166.7	-26.5	1,853.3	1,659.2	194.15	9.546		
19,200.0	10,458.1	17,322.5	8,727.0	144.4	267.2	20.88	8,266.6	-27.5	1,851.7	1,655.2	196.46	9.425		

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Rodney Robinson Fed Com #128H
Project:	Antelope Ridge	TVD Reference:	KB @ 3747.5usft
Reference Site:	Rodney Robinson	MD Reference:	KB @ 3747.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Rodney Robinson Fed Com #128H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Rodney Robinson - Rodney Robinson Fed Com #024H - Wellbore #1 - BLM Plan #1												Offset Well Error:	0.0 usft
Survey Program: 0-MWD													
Reference		Offset		Semi Major Axis			Distance					Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,300.0	10,456.4	17,422.5	8,727.0	146.0	270.3	20.90	8,366.6	-28.5	1,850.1	1,651.3	198.78	9.307	
19,400.0	10,454.6	17,522.4	8,727.0	147.6	273.3	20.92	8,466.6	-29.5	1,848.4	1,647.3	201.10	9.192	
19,500.0	10,452.9	17,622.4	8,727.0	149.2	276.4	20.94	8,566.6	-30.5	1,846.8	1,643.4	203.42	9.079	
19,600.0	10,451.1	17,722.4	8,727.0	150.8	279.4	20.96	8,666.6	-31.5	1,845.2	1,639.4	205.74	8.968	
19,700.0	10,449.4	17,822.4	8,727.0	152.4	282.5	20.98	8,766.5	-32.5	1,843.6	1,635.5	208.07	8.860	
19,800.0	10,447.6	17,922.4	8,727.0	154.0	285.5	21.00	8,866.5	-33.5	1,841.9	1,631.5	210.40	8.754	
19,900.0	10,445.9	18,022.4	8,727.0	155.6	288.6	21.02	8,966.5	-34.5	1,840.3	1,627.6	212.73	8.651	
20,000.0	10,444.1	18,122.3	8,727.0	157.2	291.6	21.04	9,066.5	-35.4	1,838.7	1,623.6	215.07	8.549	
20,100.0	10,442.4	18,222.3	8,727.0	158.8	294.7	21.06	9,166.5	-36.4	1,837.0	1,619.6	217.41	8.450	
20,200.0	10,440.7	18,322.3	8,727.0	160.4	297.7	21.08	9,266.4	-37.4	1,835.4	1,615.7	219.75	8.352	
20,300.0	10,438.9	18,422.3	8,727.0	162.0	300.8	21.10	9,366.4	-38.4	1,833.8	1,611.7	222.09	8.257	
20,400.0	10,437.2	18,522.3	8,727.0	163.6	303.9	21.12	9,466.4	-39.4	1,832.2	1,607.7	224.44	8.163	
20,500.0	10,435.4	18,622.3	8,727.0	165.3	306.9	21.14	9,566.4	-40.4	1,830.5	1,603.7	226.79	8.071	
20,600.0	10,433.7	18,722.3	8,727.0	166.9	310.0	21.16	9,666.4	-41.4	1,828.9	1,599.8	229.14	7.981	
20,700.0	10,431.9	18,822.2	8,727.0	168.5	313.0	21.18	9,766.3	-42.4	1,827.3	1,595.8	231.50	7.893	
20,800.0	10,430.2	18,922.2	8,727.0	170.1	315.9	21.20	9,866.3	-43.4	1,825.6	1,591.9	233.77	7.810	
20,867.4	10,429.0	18,989.7	8,727.0	171.2	317.6	21.21	9,933.7	-44.1	1,824.5	1,589.5	235.09	7.761 SF	

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Rodney Robinson Fed Com #128H
Project:	Antelope Ridge	TVD Reference:	KB @ 3747.5usft
Reference Site:	Rodney Robinson	MD Reference:	KB @ 3747.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Rodney Robinson Fed Com #128H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference				Offset		Semi Major Axis			Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Tooface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	1.0	-1.0	0.0	0.0	89.57	0.8	110.0	110.1					
100.0	100.0	101.0	99.0	0.1	0.1	89.57	0.8	110.0	110.1	109.8	0.26	423.456		
200.0	200.0	201.0	199.0	0.5	0.5	89.57	0.8	110.0	110.1	109.1	0.98	112.663		
300.0	300.0	301.0	299.0	0.8	0.8	89.57	0.8	110.0	110.1	108.4	1.69	64.975		
400.0	400.0	401.0	399.0	1.2	1.2	89.57	0.8	110.0	110.1	107.6	2.41	45.651		
500.0	500.0	501.0	499.0	1.6	1.6	89.57	0.8	110.0	110.1	106.9	3.13	35.187		
600.0	600.0	601.0	599.0	1.9	1.9	89.57	0.8	110.0	110.1	106.2	3.84	28.625		
700.0	700.0	701.0	699.0	2.3	2.3	89.57	0.8	110.0	110.1	105.5	4.56	24.126		
800.0	800.0	799.0	799.0	2.6	2.6	89.57	0.8	110.0	110.1	104.8	5.27	20.878		
900.0	900.0	900.7	900.7	3.0	3.0	89.79	0.4	109.3	109.3	103.3	5.98	18.271		
1,000.0	1,000.0	1,002.3	1,002.3	3.4	3.3	90.49	-0.9	106.9	107.0	100.3	6.68	16.009		
1,100.0	1,100.0	1,103.8	1,103.7	3.7	3.7	91.72	-3.1	103.0	103.2	95.8	7.39	13.965		
1,200.0	1,200.0	1,205.2	1,204.8	4.1	4.0	93.59	-6.1	97.5	97.9	89.8	8.09	12.096		
1,300.0	1,300.0	1,306.2	1,305.6	4.4	4.4	96.32	-10.0	90.5	91.3	82.5	8.80	10.373		
1,400.0	1,400.0	1,407.0	1,405.9	4.8	4.8	100.21	-14.8	82.0	83.6	74.1	9.51	8.785		
1,500.0	1,500.0	1,507.4	1,505.6	5.1	5.1	105.79	-20.3	71.9	75.0	64.8	10.23	7.334		
1,600.0	1,600.0	1,607.4	1,604.8	5.5	5.5	-117.42	-26.7	60.4	66.7	55.7	10.95	6.091		
1,700.0	1,700.0	1,707.3	1,703.5	5.8	5.9	-108.32	-34.0	47.4	59.5	47.8	11.67	5.093		
1,800.0	1,799.9	1,806.9	1,801.7	6.2	6.3	-97.17	-42.0	32.9	53.8	41.4	12.43	4.329		
1,900.0	1,899.7	1,906.2	1,899.5	6.5	6.7	-85.20	-50.4	17.8	50.4	37.2	13.19	3.819		
2,000.0	1,999.4	2,005.7	1,997.5	6.8	7.1	-74.05	-58.7	2.7	49.0	35.0	13.95	3.510		
2,087.9	2,086.9	2,106.6	2,083.8	7.2	7.5	-65.53	-66.1	-10.6	48.7	34.0	14.66	3.322		
2,100.0	2,098.9	2,105.4	2,095.7	7.2	7.5	-64.47	-67.1	-12.4	48.7	34.0	14.69	3.315		
2,200.0	2,198.3	2,205.2	2,193.9	7.5	8.0	-56.71	-75.5	-27.6	48.8	33.4	15.42	3.166		
2,300.0	2,297.4	2,305.0	2,292.3	7.9	8.4	-50.68	-84.0	-42.7	48.7	32.6	16.15	3.016		
2,396.2	2,392.6	2,401.1	2,386.9	8.3	8.8	-45.60	-92.1	-57.3	48.5	31.7	16.84	2.881 CC		
2,400.0	2,396.4	2,404.9	2,390.7	8.3	8.8	-45.39	-92.4	-57.9	48.5	31.7	16.87	2.876		
2,500.0	2,495.5	2,504.8	2,489.1	8.7	9.2	-40.12	-100.8	-73.1	48.7	31.2	17.58	2.773		
2,600.0	2,594.5	2,604.7	2,587.4	9.0	9.7	-34.93	-109.2	-88.3	49.4	31.1	18.27	2.702 ES		
2,700.0	2,693.5	2,704.6	2,685.8	9.4	10.1	-29.91	-117.6	-103.4	50.4	31.4	18.95	2.659		
2,800.0	2,792.5	2,804.5	2,784.2	9.8	10.6	-25.13	-126.0	-118.6	51.8	32.2	19.63	2.638		
2,900.0	2,891.6	2,904.4	2,882.6	10.2	11.0	-20.63	-134.5	-133.8	53.5	33.2	20.31	2.636 SF		
3,000.0	2,990.6	3,004.3	2,981.0	10.6	11.4	-16.44	-142.9	-148.9	55.6	34.6	20.99	2.648		
3,100.0	3,089.6	3,104.2	3,079.4	11.0	11.9	-12.56	-151.3	-164.1	57.9	36.2	21.67	2.672		
3,200.0	3,188.6	3,204.1	3,177.7	11.4	12.3	-8.99	-159.7	-179.3	60.5	38.1	22.35	2.705		
3,300.0	3,287.7	3,304.0	3,276.1	11.8	12.8	-5.73	-168.1	-194.4	63.2	40.2	23.05	2.744		
3,400.0	3,386.7	3,403.9	3,374.5	12.2	13.2	-2.75	-176.5	-209.6	66.2	42.5	23.75	2.787		
3,500.0	3,485.7	3,503.8	3,472.9	12.6	13.7	-0.03	-185.0	-224.8	69.3	44.9	24.47	2.834		
3,600.0	3,584.8	3,603.7	3,571.3	13.0	14.1	2.45	-193.4	-239.9	72.6	47.4	25.19	2.883		
3,700.0	3,683.8	3,703.6	3,669.6	13.4	14.5	4.71	-201.8	-255.1	76.0	50.1	25.92	2.933		
3,800.0	3,782.8	3,803.5	3,768.0	13.8	15.0	6.77	-210.2	-270.3	79.5	52.9	26.65	2.984		
3,900.0	3,881.8	3,903.4	3,866.4	14.2	15.4	8.66	-218.6	-285.4	83.1	55.7	27.39	3.034		
4,000.0	3,980.9	4,003.3	3,964.8	14.6	15.9	10.39	-227.0	-300.6	86.8	58.7	28.14	3.085		
4,100.0	4,079.9	4,103.2	4,063.2	15.0	16.3	11.98	-235.5	-315.8	90.6	61.7	28.89	3.134		
4,200.0	4,178.9	4,203.1	4,161.5	15.4	16.8	13.44	-243.9	-331.0	94.4	64.7	29.65	3.183		
4,300.0	4,277.9	4,303.0	4,259.9	15.8	17.2	14.79	-252.3	-346.1	98.3	67.8	30.41	3.231		
4,400.0	4,377.0	4,402.9	4,358.3	16.3	17.7	16.03	-260.7	-361.3	102.2	71.0	31.18	3.277		
4,500.0	4,476.0	4,502.8	4,456.7	16.7	18.1	17.18	-269.1	-376.5	106.2	74.2	31.95	3.323		
4,600.0	4,575.0	4,602.7	4,555.1	17.1	18.6	18.25	-277.5	-391.6	110.2	77.4	32.72	3.367		
4,700.0	4,674.0	4,702.6	4,653.5	17.5	19.0	19.24	-286.0	-406.8	114.2	80.7	33.49	3.410		
4,800.0	4,773.1	4,802.5	4,751.8	17.9	19.5	20.17	-294.4	-422.0	118.3	84.0	34.27	3.452		
4,900.0	4,872.1	4,902.4	4,850.2	18.3	19.9	21.03	-302.8	-437.1	122.4	87.4	35.05	3.492		

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Rodney Robinson Fed Com #128H
Project:	Antelope Ridge	TVD Reference:	KB @ 3747.5usft
Reference Site:	Rodney Robinson	MD Reference:	KB @ 3747.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Rodney Robinson Fed Com #128H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference				Offset		Semi Major Axis			Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.0	4,971.1	5,002.3	4,948.6	18.7	20.4	21.83	-311.2	-452.3	126.5	90.7	35.83	3.532		
5,100.0	5,070.2	5,102.2	5,047.0	19.2	20.8	22.59	-319.6	-467.5	130.7	94.1	36.61	3.570		
5,200.0	5,169.2	5,202.1	5,145.4	19.6	21.3	23.30	-328.1	-482.6	134.9	97.5	37.40	3.606		
5,300.0	5,268.2	5,302.0	5,243.7	20.0	21.7	23.96	-336.5	-497.8	139.1	100.9	38.18	3.642		
5,400.0	5,367.2	5,401.9	5,342.1	20.4	22.2	24.59	-344.9	-513.0	143.3	104.3	38.97	3.677		
5,500.0	5,466.3	5,501.8	5,440.5	20.8	22.6	25.18	-353.3	-528.1	147.5	107.8	39.76	3.710		
5,600.0	5,565.3	5,601.7	5,538.9	21.2	23.1	25.74	-361.7	-543.3	151.8	111.2	40.54	3.743		
5,700.0	5,664.3	5,701.6	5,637.3	21.6	23.6	26.27	-370.1	-558.5	156.0	114.7	41.33	3.774		
5,800.0	5,763.3	5,801.5	5,735.7	22.1	24.0	26.76	-378.6	-573.6	160.3	118.2	42.12	3.805		
5,900.0	5,862.4	5,901.4	5,834.0	22.5	24.5	27.24	-387.0	-588.8	164.6	121.7	42.92	3.835		
6,000.0	5,961.4	6,001.3	5,932.4	22.9	24.9	27.69	-395.4	-604.0	168.9	125.2	43.71	3.863		
6,100.0	6,060.4	6,101.2	6,030.8	23.3	25.4	28.11	-403.8	-619.2	173.2	128.7	44.50	3.891		
6,200.0	6,159.4	6,201.1	6,129.2	23.7	25.8	28.52	-412.2	-634.3	177.5	132.2	45.29	3.918		
6,300.0	6,258.5	6,301.0	6,227.6	24.2	26.3	28.91	-420.6	-649.5	181.8	135.7	46.09	3.945		
6,400.0	6,357.5	6,400.9	6,325.9	24.6	26.7	29.28	-429.1	-664.7	186.1	139.2	46.88	3.970		
6,500.0	6,456.5	6,500.8	6,424.3	25.0	27.2	29.63	-437.5	-679.8	190.5	142.8	47.68	3.995		
6,600.0	6,555.6	6,600.7	6,522.7	25.4	27.6	29.97	-445.9	-695.0	194.8	146.3	48.47	4.019		
6,700.0	6,654.6	6,700.6	6,621.1	25.8	28.1	30.29	-454.3	-710.2	199.2	149.9	49.27	4.042		
6,800.0	6,753.6	6,800.5	6,719.5	26.3	28.5	30.60	-462.7	-725.3	203.5	153.4	50.07	4.065		
6,900.0	6,852.6	6,900.4	6,817.8	26.7	29.0	30.89	-471.1	-740.5	207.9	157.0	50.86	4.087		
7,000.0	6,951.7	7,000.3	6,916.2	27.1	29.4	31.17	-479.6	-755.7	212.2	160.6	51.66	4.108		
7,100.0	7,050.7	7,100.2	7,014.6	27.5	29.9	31.45	-488.0	-770.8	216.6	164.2	52.46	4.129		
7,200.0	7,149.7	7,200.1	7,113.0	27.9	30.3	31.71	-496.4	-786.0	221.0	167.7	53.26	4.149		
7,300.0	7,248.7	7,303.8	7,215.2	28.4	30.8	32.02	-504.8	-801.2	224.8	170.7	54.11	4.155		
7,400.0	7,347.8	7,409.5	7,319.9	28.8	31.3	32.60	-512.1	-814.4	226.3	171.3	54.98	4.116		
7,500.0	7,446.8	7,515.2	7,424.9	29.2	31.7	33.45	-518.0	-825.0	225.2	169.3	55.83	4.033		
7,598.2	7,544.1	7,618.8	7,528.1	29.6	32.1	34.59	-522.4	-832.9	221.7	165.0	56.66	3.913		
7,600.0	7,545.8	7,620.7	7,530.0	29.6	32.1	34.62	-522.5	-833.0	221.6	164.9	56.68	3.910		
7,700.0	7,645.0	7,726.0	7,635.0	30.0	32.5	35.89	-525.5	-838.5	216.8	159.3	57.50	3.770		
7,800.0	7,744.5	7,831.0	7,740.0	30.4	32.8	37.11	-527.2	-841.5	211.6	153.4	58.27	3.632		
7,900.0	7,844.3	7,934.3	7,843.3	30.8	33.1	38.26	-527.5	-842.1	206.3	147.3	59.01	3.497		
8,000.0	7,944.1	8,034.2	7,943.1	31.2	33.4	39.06	-527.5	-842.1	202.6	142.9	59.77	3.390		
8,100.0	8,044.1	8,134.1	8,043.1	31.5	33.7	39.42	-527.5	-842.1	201.0	140.5	60.47	3.324		
8,131.5	8,075.7	8,165.7	8,074.7	31.6	33.8	-90.00	-527.5	-842.1	200.9	140.2	60.67	3.311		
8,200.0	8,144.1	8,234.1	8,143.1	31.8	34.0	-90.00	-527.5	-842.1	200.9	139.8	61.10	3.287		
8,300.0	8,244.1	8,334.1	8,243.1	32.1	34.2	-90.00	-527.5	-842.1	200.9	139.1	61.73	3.254		
8,400.0	8,344.1	8,434.1	8,343.1	32.4	34.5	-90.00	-527.5	-842.1	200.9	138.5	62.36	3.221		
8,500.0	8,444.1	8,534.1	8,443.1	32.7	34.8	-90.00	-527.5	-842.1	200.9	137.9	62.99	3.189		
8,600.0	8,544.1	8,634.1	8,543.1	33.0	35.1	-90.00	-527.5	-842.1	200.9	137.2	63.63	3.157		
8,700.0	8,644.1	8,734.1	8,643.1	33.3	35.4	-90.00	-527.5	-842.1	200.9	136.6	64.26	3.126		
8,800.0	8,744.1	8,834.1	8,743.1	33.6	35.7	-90.00	-527.5	-842.1	200.9	136.0	64.90	3.095		
8,900.0	8,844.1	8,934.1	8,843.1	34.0	36.0	-90.00	-527.5	-842.1	200.9	135.3	65.54	3.065		
8,900.1	8,844.2	8,934.2	8,843.2	34.0	36.0	-90.00	-527.5	-842.1	200.9	135.3	65.54	3.065		
9,000.0	8,944.1	9,033.6	8,942.4	34.3	36.3	-88.76	-523.2	-842.1	201.0	134.6	66.31	3.030		
9,100.0	9,044.1	9,128.9	9,035.6	34.6	36.5	-83.23	-503.6	-842.2	202.6	135.0	67.58	2.998		
9,200.0	9,144.1	9,215.7	9,116.6	34.9	36.7	-74.76	-472.7	-842.5	210.3	141.4	68.85	3.054		
9,300.0	9,244.1	9,291.7	9,182.9	35.2	36.7	-65.53	-435.8	-842.7	229.4	160.6	68.81	3.335		
9,400.0	9,344.1	9,356.6	9,235.4	35.5	36.8	-57.22	-397.5	-843.0	263.1	196.4	66.65	3.948		
9,500.0	9,444.1	9,411.4	9,276.0	35.8	36.8	-50.48	-360.8	-843.2	310.7	247.8	62.93	4.937		
9,600.0	9,544.1	9,457.4	9,307.3	36.2	36.8	-45.27	-327.1	-843.5	369.7	311.0	58.68	6.300		
9,700.0	9,644.1	9,500.0	9,333.8	36.5	36.8	-40.90	-293.8	-843.7	437.4	382.5	54.91	7.966		
9,800.0	9,744.1	9,529.0	9,350.3	36.8	36.8	-38.20	-269.9	-843.9	511.6	460.6	50.96	10.037		

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Rodney Robinson Fed Com #128H
Project:	Antelope Ridge	TVD Reference:	KB @ 3747.5usft
Reference Site:	Rodney Robinson	MD Reference:	KB @ 3747.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Rodney Robinson Fed Com #128H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft	
Survey Program: 0-MWD													Offset Well Error:		0.0 usft
Reference				Offset			Semi Major Axis			Distance			Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Tooface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
9,900.0	9,844.1	9,550.0	9,361.6	37.1	36.8	-36.38	-252.2	-844.0	590.6	543.2	47.37	12.467			
10,000.0	9,944.1	9,581.0	9,376.9	37.4	36.7	-33.89	-225.3	-844.2	673.1	627.9	45.21	14.889			
10,082.9	10,027.0	9,600.0	9,385.6	37.7	36.7	-32.48	-208.4	-844.3	743.7	700.3	43.44	17.122			
10,100.0	10,044.1	9,600.0	9,385.6	37.8	36.7	-33.85	-208.4	-844.3	758.4	715.5	42.89	17.682			
10,150.0	10,094.0	9,612.6	9,391.1	37.9	36.7	-29.12	-197.1	-844.4	800.4	758.4	41.95	19.078			
10,200.0	10,143.3	9,624.2	9,395.9	38.0	36.7	-25.51	-186.5	-844.5	840.8	799.9	40.92	20.547			
10,250.0	10,191.8	9,636.5	9,400.8	38.2	36.7	-22.65	-175.2	-844.5	879.6	839.7	39.90	22.043			
10,300.0	10,239.0	9,650.0	9,405.8	38.3	36.7	-20.37	-162.7	-844.6	916.4	877.5	38.92	23.547			
10,350.0	10,284.5	9,650.0	9,405.8	38.4	36.7	-18.72	-162.7	-844.6	951.5	914.1	37.39	25.449			
10,400.0	10,328.2	9,677.3	9,415.1	38.4	36.7	-17.06	-137.1	-844.8	984.0	947.0	36.98	26.610			
10,450.0	10,369.5	9,700.0	9,421.9	38.5	36.6	-15.78	-115.4	-845.0	1,014.5	978.1	36.37	27.897			
10,500.0	10,408.2	9,700.0	9,421.9	38.5	36.6	-14.89	-115.4	-845.0	1,042.5	1,007.5	35.01	29.775			
10,550.0	10,444.1	9,722.0	9,427.7	38.5	36.6	-14.04	-94.1	-845.1	1,068.1	1,033.6	34.45	31.000			
10,600.0	10,476.7	9,750.0	9,433.8	38.6	36.6	-13.34	-66.8	-845.3	1,091.3	1,057.2	34.09	32.012			
10,650.0	10,505.9	9,750.0	9,433.8	38.6	36.6	-12.84	-66.8	-845.3	1,111.6	1,078.5	33.08	33.599			
10,700.0	10,531.5	9,769.4	9,437.3	38.5	36.6	-12.40	-47.8	-845.4	1,129.4	1,096.7	32.67	34.565			
10,750.0	10,553.3	9,800.0	9,441.5	38.5	36.5	-12.06	-17.4	-845.6	1,144.7	1,112.1	32.55	35.162			
10,800.0	10,571.0	9,800.0	9,441.5	38.5	36.5	-11.80	-17.4	-845.6	1,156.7	1,124.7	32.06	36.082			
10,850.0	10,584.6	9,818.3	9,443.2	38.4	36.5	-11.63	0.8	-845.8	1,166.2	1,134.2	32.00	36.446			
10,900.0	10,594.0	9,834.8	9,444.3	38.4	36.5	-11.52	17.2	-845.9	1,172.9	1,140.8	32.07	36.577			
10,950.0	10,599.0	9,850.0	9,444.8	38.4	36.5	-11.47	32.4	-846.0	1,176.7	1,144.4	32.29	36.447			
10,982.9	10,600.0	9,863.0	9,445.0	38.3	36.5	-11.49	45.4	-846.1	1,177.7	1,145.1	32.52	36.217			
11,000.0	10,599.9	9,877.0	9,445.0	38.3	36.5	-11.53	59.4	-846.2	1,177.8	1,145.2	32.65	36.073			
11,100.0	10,599.3	9,976.9	9,445.0	38.2	36.4	-11.74	159.3	-847.2	1,178.0	1,144.6	33.42	35.252			
11,168.3	10,598.3	10,045.2	9,445.0	38.2	36.4	-11.79	227.6	-847.9	1,177.2	1,143.3	33.92	34.708			
11,200.0	10,597.8	10,076.9	9,445.0	38.3	36.4	-11.80	259.3	-848.2	1,176.7	1,142.5	34.15	34.459			
11,300.0	10,596.0	10,176.9	9,445.0	38.6	36.6	-11.82	359.3	-849.2	1,175.0	1,140.1	34.92	33.648			
11,400.0	10,594.3	10,276.9	9,445.0	39.1	36.8	-11.83	459.3	-850.2	1,173.3	1,137.5	35.75	32.815			
11,500.0	10,592.5	10,376.8	9,445.0	39.6	37.2	-11.85	559.2	-851.2	1,171.6	1,134.9	36.65	31.970			
11,600.0	10,590.8	10,476.8	9,445.0	40.1	37.8	-11.87	659.2	-852.2	1,169.8	1,132.3	37.59	31.119			
11,700.0	10,589.1	10,576.8	9,445.0	40.7	38.4	-11.89	759.2	-853.1	1,168.1	1,129.5	38.59	30.271			
11,800.0	10,587.3	10,676.8	9,445.0	41.4	39.0	-11.90	859.2	-854.1	1,166.4	1,126.8	39.63	29.430			
11,900.0	10,585.6	10,776.8	9,445.0	42.1	39.8	-11.92	959.2	-855.1	1,164.7	1,124.0	40.72	28.603			
12,000.0	10,583.8	10,876.8	9,445.0	42.9	40.6	-11.94	1,059.1	-856.1	1,163.0	1,121.2	41.85	27.792			
12,100.0	10,582.1	10,976.8	9,445.0	43.7	41.4	-11.96	1,159.1	-857.1	1,161.3	1,118.3	43.01	27.000			
12,200.0	10,580.3	11,076.7	9,445.0	44.6	42.3	-11.97	1,259.1	-858.1	1,159.6	1,115.4	44.21	26.230			
12,300.0	10,578.6	11,176.7	9,445.0	45.5	43.2	-11.99	1,359.1	-859.1	1,157.9	1,112.4	45.44	25.483			
12,400.0	10,576.8	11,276.7	9,445.0	46.4	44.2	-12.01	1,459.1	-860.1	1,156.2	1,109.5	46.69	24.760			
12,500.0	10,575.1	11,376.7	9,445.0	47.4	45.2	-12.03	1,559.0	-861.1	1,154.5	1,106.5	47.98	24.061			
12,600.0	10,573.3	11,476.7	9,445.0	48.4	46.3	-12.05	1,659.0	-862.1	1,152.7	1,103.5	49.29	23.387			
12,700.0	10,571.6	11,576.7	9,445.0	49.4	47.4	-12.06	1,759.0	-863.1	1,151.0	1,100.4	50.62	22.738			
12,800.0	10,569.9	11,676.6	9,445.0	50.5	48.5	-12.08	1,859.0	-864.1	1,149.3	1,097.4	51.98	22.113			
12,900.0	10,568.1	11,776.6	9,445.0	51.6	49.6	-12.10	1,959.0	-865.0	1,147.6	1,094.3	53.35	21.512			
13,000.0	10,566.4	11,876.6	9,445.0	52.8	50.8	-12.12	2,058.9	-866.0	1,145.9	1,091.2	54.74	20.934			
13,100.0	10,564.6	11,976.6	9,445.0	53.9	52.0	-12.13	2,158.9	-867.0	1,144.2	1,088.1	56.15	20.378			
13,200.0	10,562.9	12,076.6	9,445.0	55.1	53.2	-12.15	2,258.9	-868.0	1,142.5	1,084.9	57.57	19.844			
13,300.0	10,561.1	12,176.6	9,445.0	56.3	54.5	-12.17	2,358.9	-869.0	1,140.8	1,081.8	59.01	19.331			
13,400.0	10,559.4	12,276.6	9,445.0	57.6	55.7	-12.19	2,458.9	-870.0	1,139.1	1,078.6	60.47	18.838			
13,500.0	10,557.6	12,376.5	9,445.0	58.8	57.0	-12.21	2,558.8	-871.0	1,137.4	1,075.4	61.93	18.365			
13,600.0	10,555.9	12,476.5	9,445.0	60.1	58.3	-12.23	2,658.8	-872.0	1,135.7	1,072.3	63.41	17.910			
13,700.0	10,554.1	12,576.5	9,445.0	61.4	59.6	-12.24	2,758.8	-873.0	1,134.0	1,069.1	64.90	17.473			
13,800.0	10,552.4	12,676.5	9,445.0	62.7	61.0	-12.26	2,858.8	-874.0	1,132.2	1,065.9	66.40	17.052			

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Rodney Robinson Fed Com #128H
Project:	Antelope Ridge	TVD Reference:	KB @ 3747.5usft
Reference Site:	Rodney Robinson	MD Reference:	KB @ 3747.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Rodney Robinson Fed Com #128H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference				Offset			Semi Major Axis			Distance			Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Tooface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
13,900.0	10,550.6	12,776.5	9,445.0	64.0	62.3	-12.28	2,958.8	-875.0	1,130.5	1,062.6	67.91	16.648		
14,000.0	10,548.9	12,876.5	9,445.0	65.4	63.7	-12.30	3,058.7	-876.0	1,128.8	1,059.4	69.43	16.259		
14,100.0	10,547.2	12,976.4	9,445.0	66.7	65.1	-12.32	3,158.7	-877.0	1,127.1	1,056.2	70.95	15.885		
14,200.0	10,545.4	13,076.4	9,445.0	68.1	66.4	-12.34	3,258.7	-877.9	1,125.4	1,052.9	72.49	15.525		
14,300.0	10,543.7	13,176.4	9,445.0	69.5	67.8	-12.36	3,358.7	-878.9	1,123.7	1,049.7	74.03	15.178		
14,400.0	10,541.9	13,276.4	9,445.0	70.9	69.3	-12.38	3,458.7	-879.9	1,122.0	1,046.4	75.59	14.844		
14,500.0	10,540.2	13,376.4	9,445.0	72.3	70.7	-12.39	3,558.6	-880.9	1,120.3	1,043.2	77.14	14.522		
14,600.0	10,538.4	13,476.4	9,445.0	73.7	72.1	-12.41	3,658.6	-881.9	1,118.6	1,039.9	78.71	14.212		
14,700.0	10,536.7	13,576.4	9,445.0	75.1	73.5	-12.43	3,758.6	-882.9	1,116.9	1,036.6	80.28	13.912		
14,800.0	10,534.9	13,676.3	9,445.0	76.5	75.0	-12.45	3,858.6	-883.9	1,115.2	1,033.3	81.86	13.623		
14,900.0	10,533.2	13,776.3	9,445.0	78.0	76.5	-12.47	3,958.6	-884.9	1,113.5	1,030.0	83.44	13.344		
15,000.0	10,531.4	13,876.3	9,445.0	79.4	77.9	-12.49	4,058.5	-885.9	1,111.8	1,026.7	85.03	13.075		
15,100.0	10,529.7	13,976.3	9,445.0	80.9	79.4	-12.51	4,158.5	-886.9	1,110.1	1,023.4	86.62	12.815		
15,200.0	10,527.9	14,076.3	9,445.0	82.4	80.9	-12.53	4,258.5	-887.9	1,108.4	1,020.1	88.22	12.563		
15,300.0	10,526.2	14,176.3	9,445.0	83.8	82.4	-12.55	4,358.5	-888.9	1,106.6	1,016.8	89.82	12.320		
15,400.0	10,524.5	14,276.2	9,445.0	85.3	83.8	-12.57	4,458.5	-889.8	1,104.9	1,013.5	91.43	12.085		
15,500.0	10,522.7	14,376.2	9,445.0	86.8	85.3	-12.59	4,558.4	-890.8	1,103.2	1,010.2	93.04	11.857		
15,600.0	10,521.0	14,476.2	9,445.0	88.3	86.8	-12.61	4,658.4	-891.8	1,101.5	1,006.9	94.66	11.637		
15,700.0	10,519.2	14,576.2	9,445.0	89.8	88.4	-12.63	4,758.4	-892.8	1,099.8	1,003.5	96.28	11.423		
15,800.0	10,517.5	14,676.2	9,445.0	91.3	89.9	-12.64	4,858.4	-893.8	1,098.1	1,000.2	97.91	11.216		
15,900.0	10,515.7	14,776.2	9,445.0	92.8	91.4	-12.66	4,958.4	-894.8	1,096.4	996.9	99.53	11.016		
16,000.0	10,514.0	14,876.2	9,445.0	94.3	92.9	-12.68	5,058.3	-895.8	1,094.7	993.5	101.16	10.821		
16,100.0	10,512.2	14,976.1	9,445.0	95.8	94.4	-12.70	5,158.3	-896.8	1,093.0	990.2	102.80	10.632		
16,200.0	10,510.5	15,076.1	9,445.0	97.3	96.0	-12.72	5,258.3	-897.8	1,091.3	986.9	104.44	10.449		
16,300.0	10,508.7	15,176.1	9,445.0	98.9	97.5	-12.74	5,358.3	-898.8	1,089.6	983.5	106.08	10.271		
16,400.0	10,507.0	15,276.1	9,445.0	100.4	99.0	-12.76	5,458.3	-899.8	1,087.9	980.2	107.72	10.099		
16,500.0	10,505.3	15,376.1	9,445.0	101.9	100.6	-12.78	5,558.2	-900.8	1,086.2	976.8	109.37	9.931		
16,600.0	10,503.5	15,476.1	9,445.0	103.5	102.1	-12.80	5,658.2	-901.8	1,084.5	973.5	111.02	9.768		
16,700.0	10,501.8	15,576.1	9,445.0	105.0	103.7	-12.82	5,758.2	-902.7	1,082.8	970.1	112.68	9.610		
16,800.0	10,500.0	15,676.0	9,445.0	106.6	105.2	-12.84	5,858.2	-903.7	1,081.1	966.7	114.33	9.455		
16,900.0	10,498.3	15,776.0	9,445.0	108.1	106.8	-12.87	5,958.2	-904.7	1,079.4	963.4	115.99	9.306		
17,000.0	10,496.5	15,876.0	9,445.0	109.7	108.3	-12.89	6,058.1	-905.7	1,077.7	960.0	117.65	9.160		
17,100.0	10,494.8	15,976.0	9,445.0	111.2	109.9	-12.91	6,158.1	-906.7	1,076.0	956.6	119.32	9.018		
17,200.0	10,493.0	16,076.0	9,445.0	112.8	111.5	-12.93	6,258.1	-907.7	1,074.3	953.3	120.98	8.879		
17,300.0	10,491.3	16,176.0	9,445.0	114.3	113.0	-12.95	6,358.1	-908.7	1,072.6	949.9	122.65	8.745		
17,400.0	10,489.5	16,275.9	9,445.0	115.9	114.6	-12.97	6,458.1	-909.7	1,070.9	946.5	124.33	8.613		
17,500.0	10,487.8	16,375.9	9,445.0	117.5	116.2	-12.99	6,558.0	-910.7	1,069.2	943.2	126.00	8.485		
17,600.0	10,486.0	16,475.9	9,445.0	119.0	117.7	-13.01	6,658.0	-911.7	1,067.4	939.8	127.68	8.361		
17,700.0	10,484.3	16,575.9	9,445.0	120.6	119.3	-13.03	6,758.0	-912.7	1,065.7	936.4	129.35	8.239		
17,800.0	10,482.6	16,675.9	9,445.0	122.2	120.9	-13.05	6,858.0	-913.7	1,064.0	933.0	131.04	8.120		
17,900.0	10,480.8	16,775.9	9,445.0	123.7	122.5	-13.07	6,958.0	-914.6	1,062.3	929.6	132.72	8.005		
18,000.0	10,479.1	16,875.9	9,445.0	125.3	124.0	-13.09	7,057.9	-915.6	1,060.6	926.2	134.40	7.891		
18,100.0	10,477.3	16,975.8	9,445.0	126.9	125.6	-13.11	7,157.9	-916.6	1,058.9	922.8	136.09	7.781		
18,200.0	10,475.6	17,075.8	9,445.0	128.5	127.2	-13.14	7,257.9	-917.6	1,057.2	919.5	137.78	7.673		
18,300.0	10,473.8	17,175.8	9,445.0	130.1	128.8	-13.16	7,357.9	-918.6	1,055.5	916.1	139.47	7.568		
18,400.0	10,472.1	17,275.8	9,445.0	131.7	130.4	-13.18	7,457.9	-919.6	1,053.8	912.7	141.16	7.465		
18,500.0	10,470.3	17,375.8	9,445.0	133.2	132.0	-13.20	7,557.8	-920.6	1,052.1	909.3	142.86	7.365		
18,600.0	10,468.6	17,475.8	9,445.0	134.8	133.6	-13.22	7,657.8	-921.6	1,050.4	905.9	144.56	7.267		
18,700.0	10,466.8	17,575.7	9,445.0	136.4	135.2	-13.24	7,757.8	-922.6	1,048.7	902.5	146.25	7.171		
18,800.0	10,465.1	17,675.7	9,445.0	138.0	136.8	-13.26	7,857.8	-923.6	1,047.0	899.1	147.95	7.077		
18,900.0	10,463.3	17,775.7	9,445.0	139.6	138.3	-13.29	7,957.8	-924.6	1,045.3	895.7	149.66	6.985		
19,000.0	10,461.6	17,875.7	9,445.0	141.2	139.9	-13.31	8,057.7	-925.6	1,043.6	892.3	151.36	6.895		

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Rodney Robinson Fed Com #128H
Project:	Antelope Ridge	TVD Reference:	KB @ 3747.5usft
Reference Site:	Rodney Robinson	MD Reference:	KB @ 3747.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Rodney Robinson Fed Com #128H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 usft	
Survey Program: 0-MWD												Offset Well Error:		0.0 usft
Reference		Offset		Semi Major Axis			Distance					Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
19,100.0	10,459.9	17,975.7	9,445.0	142.8	141.5	-13.33	8,157.7	-926.5	1,041.9	888.9	153.07	6.807		
19,200.0	10,458.1	18,075.7	9,445.0	144.4	143.1	-13.35	8,257.7	-927.5	1,040.2	885.4	154.78	6.721		
19,300.0	10,456.4	18,175.7	9,445.0	146.0	144.7	-13.37	8,357.7	-928.5	1,038.5	882.0	156.49	6.637		
19,400.0	10,454.6	18,275.6	9,445.0	147.6	146.3	-13.40	8,457.7	-929.5	1,036.8	878.6	158.20	6.554		
19,500.0	10,452.9	18,375.6	9,445.0	149.2	147.9	-13.42	8,557.6	-930.5	1,035.1	875.2	159.91	6.473		
19,600.0	10,451.1	18,475.6	9,445.0	150.8	149.5	-13.44	8,657.6	-931.5	1,033.4	871.8	161.63	6.394		
19,700.0	10,449.4	18,575.6	9,445.0	152.4	151.1	-13.46	8,757.6	-932.5	1,031.7	868.4	163.34	6.316		
19,800.0	10,447.6	18,675.6	9,445.0	154.0	152.8	-13.48	8,857.6	-933.5	1,030.0	865.0	165.06	6.240		
19,900.0	10,445.9	18,775.6	9,445.0	155.6	154.4	-13.51	8,957.6	-934.5	1,028.3	861.5	166.78	6.166		
20,000.0	10,444.1	18,875.5	9,445.0	157.2	156.0	-13.53	9,057.5	-935.5	1,026.6	858.1	168.50	6.093		
20,100.0	10,442.4	18,975.5	9,445.0	158.8	157.6	-13.55	9,157.5	-936.5	1,024.9	854.7	170.23	6.021		
20,200.0	10,440.7	19,075.5	9,445.0	160.4	159.2	-13.57	9,257.5	-937.5	1,023.2	851.3	171.95	5.951		
20,300.0	10,438.9	19,175.5	9,445.0	162.0	160.8	-13.60	9,357.5	-938.5	1,021.5	847.9	173.68	5.882		
20,400.0	10,437.2	19,275.5	9,445.0	163.6	162.4	-13.62	9,457.5	-939.4	1,019.8	844.4	175.41	5.814		
20,500.0	10,435.4	19,375.5	9,445.0	165.3	164.0	-13.64	9,557.4	-940.4	1,018.1	841.0	177.13	5.748		
20,600.0	10,433.7	19,475.5	9,445.0	166.9	165.6	-13.67	9,657.4	-941.4	1,016.4	837.6	178.87	5.683		
20,700.0	10,431.9	19,575.4	9,445.0	168.5	167.2	-13.69	9,757.4	-942.4	1,014.7	834.1	180.60	5.619		
20,800.0	10,430.2	19,675.4	9,445.0	170.1	168.9	-13.71	9,857.4	-943.4	1,013.0	830.7	182.33	5.556		
20,867.4	10,429.0	19,742.9	9,445.0	171.2	169.9	-13.73	9,924.8	-944.1	1,011.9	828.4	183.51	5.514		

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Rodney Robinson Fed Com #128H
Project:	Antelope Ridge	TVD Reference:	KB @ 3747.5usft
Reference Site:	Rodney Robinson	MD Reference:	KB @ 3747.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Rodney Robinson Fed Com #128H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Tooface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	1.0	-1.0	0.0	0.0	89.56	1.5	200.0	200.1					
100.0	100.0	101.0	99.0	0.1	0.1	89.56	1.5	200.0	200.1	199.8	0.26	769.757		
200.0	200.0	201.0	199.0	0.5	0.5	89.56	1.5	200.0	200.1	199.1	0.98	204.798		
300.0	300.0	301.0	299.0	0.8	0.8	89.56	1.5	200.0	200.1	198.4	1.69	118.111		
400.0	400.0	401.0	399.0	1.2	1.2	89.56	1.5	200.0	200.1	197.6	2.41	82.985		
500.0	500.0	501.0	499.0	1.6	1.6	89.56	1.5	200.0	200.1	196.9	3.13	63.963		
600.0	600.0	601.0	599.0	1.9	1.9	89.56	1.5	200.0	200.1	196.2	3.84	52.035		
700.0	700.0	701.0	699.0	2.3	2.3	89.56	1.5	200.0	200.1	195.5	4.56	43.857		
800.0	800.0	801.0	799.0	2.6	2.6	89.56	1.5	200.0	200.1	194.8	5.28	37.900		
900.0	900.0	901.0	899.0	3.0	3.0	89.56	1.5	200.0	200.1	194.1	6.00	33.368		
1,000.0	1,000.0	1,001.0	999.0	3.4	3.4	89.56	1.5	200.0	200.1	193.3	6.71	29.804		
1,100.0	1,100.0	1,101.0	1,099.0	3.7	3.7	89.56	1.5	200.0	200.1	192.6	7.43	26.928		
1,200.0	1,200.0	1,201.0	1,199.0	4.1	4.1	89.56	1.5	200.0	200.1	191.9	8.15	24.558		
1,300.0	1,300.0	1,301.0	1,299.0	4.4	4.4	89.56	1.5	200.0	200.1	191.2	8.86	22.571		
1,400.0	1,400.0	1,401.0	1,399.0	4.8	4.8	89.56	1.5	200.0	200.1	190.5	9.58	20.882		
1,500.0	1,500.0	1,501.0	1,499.0	5.1	5.2	89.56	1.5	200.0	200.1	189.8	10.30	19.428 CC		
1,600.0	1,600.0	1,601.0	1,599.0	5.5	5.5	-141.15	1.5	200.0	200.7	189.7	11.00	18.250 ES		
1,700.0	1,700.0	1,701.0	1,699.0	5.8	5.9	-141.60	1.5	200.0	202.8	191.1	11.69	17.347		
1,800.0	1,799.9	1,801.1	1,798.9	6.2	6.2	-142.33	1.5	200.0	206.2	193.8	12.38	16.653		
1,900.0	1,899.7	1,901.3	1,898.7	6.5	6.6	-143.32	1.5	200.0	211.1	198.0	13.08	16.138		
2,000.0	1,999.4	2,001.6	1,998.4	6.8	6.9	-144.51	1.5	200.0	217.4	203.7	13.78	15.779		
2,100.0	2,098.9	2,102.1	2,097.9	7.2	7.3	-145.88	1.5	200.0	225.3	210.8	14.48	15.557		
2,200.0	2,198.3	2,202.7	2,197.3	7.5	7.7	-147.38	1.5	200.0	234.8	219.6	15.19	15.457		
2,300.0	2,297.4	2,303.6	2,296.4	7.9	8.0	-148.96	1.5	200.0	245.9	230.0	15.90	15.466		
2,400.0	2,396.4	2,404.6	2,395.4	8.3	8.4	-150.55	1.5	200.0	258.0	241.3	16.61	15.529		
2,500.0	2,495.5	2,494.5	2,494.5	8.7	8.7	-151.99	1.5	200.0	270.2	252.9	17.28	15.631		
2,600.0	2,594.5	2,594.4	2,594.4	9.0	9.1	-153.17	0.8	200.1	282.4	264.4	17.98	15.708		
2,700.0	2,693.5	2,694.7	2,694.7	9.4	9.4	-153.92	-1.8	200.1	294.4	275.7	18.66	15.776		
2,800.0	2,792.5	2,795.2	2,795.1	9.8	9.7	-154.29	-6.1	200.2	306.0	286.6	19.34	15.817		
2,900.0	2,891.6	2,895.8	2,895.5	10.2	10.0	-154.32	-12.1	200.3	317.2	297.2	20.04	15.831		
3,000.0	2,990.6	2,996.5	2,995.8	10.6	10.4	-154.05	-19.9	200.4	328.0	307.3	20.74	15.817		
3,100.0	3,089.6	3,097.1	3,096.1	11.0	10.7	-153.50	-29.5	200.6	338.5	317.0	21.45	15.779		
3,200.0	3,188.6	3,197.7	3,196.0	11.4	11.1	-152.70	-40.9	200.8	348.6	326.4	22.18	15.717		
3,300.0	3,287.7	3,298.2	3,295.6	11.8	11.5	-151.66	-54.0	201.0	358.5	335.6	22.93	15.636		
3,400.0	3,386.7	3,402.5	3,394.0	12.2	11.9	-150.56	-67.8	201.2	368.4	344.6	23.71	15.535		
3,500.0	3,485.7	3,503.2	3,492.3	12.6	12.3	-149.51	-81.6	201.4	378.3	353.8	24.49	15.446		
3,600.0	3,584.8	3,604.0	3,590.6	13.0	12.7	-148.52	-95.4	201.7	388.4	363.1	25.29	15.359		
3,700.0	3,683.8	3,704.7	3,688.9	13.4	13.1	-147.57	-109.2	201.9	398.6	372.5	26.10	15.274		
3,800.0	3,782.8	3,805.4	3,787.2	13.8	13.6	-146.68	-123.0	202.1	408.9	382.0	26.92	15.192		
3,900.0	3,881.8	3,906.1	3,885.5	14.2	14.0	-145.83	-136.8	202.4	419.3	391.6	27.75	15.112		
4,000.0	3,980.9	4,006.9	3,983.8	14.6	14.5	-145.02	-150.7	202.6	429.8	401.2	28.59	15.036		
4,100.0	4,079.9	4,107.6	4,082.1	15.0	14.9	-144.25	-164.5	202.8	440.4	411.0	29.43	14.962		
4,200.0	4,178.9	4,208.3	4,180.4	15.4	15.4	-143.51	-178.3	203.1	451.0	420.8	30.29	14.891		
4,300.0	4,277.9	4,309.1	4,278.7	15.8	15.8	-142.81	-192.1	203.3	461.8	430.6	31.15	14.823		
4,400.0	4,377.0	4,409.8	4,377.0	16.3	16.3	-142.14	-205.9	203.5	472.5	440.5	32.02	14.758		
4,500.0	4,476.0	4,489.5	4,475.3	16.7	16.7	-141.50	-219.7	203.8	483.4	450.6	32.79	14.741		
4,600.0	4,575.0	4,588.7	4,573.6	17.1	17.2	-140.89	-233.5	204.0	494.3	460.6	33.66	14.683		
4,700.0	4,674.0	4,688.0	4,671.9	17.5	17.7	-140.30	-247.4	204.2	505.2	470.7	34.54	14.628		
4,800.0	4,773.1	4,787.3	4,770.2	17.9	18.2	-139.74	-261.2	204.5	516.2	480.8	35.42	14.576		
4,900.0	4,872.1	4,886.5	4,868.5	18.3	18.6	-139.20	-275.0	204.7	527.3	491.0	36.30	14.525		
5,000.0	4,971.1	4,985.8	4,966.8	18.7	19.1	-138.69	-288.8	204.9	538.4	501.2	37.19	14.477		
5,100.0	5,070.2	5,085.1	5,065.1	19.2	19.6	-138.19	-302.6	205.2	549.5	511.4	38.08	14.431		

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Rodney Robinson Fed Com #128H
Project:	Antelope Ridge	TVD Reference:	KB @ 3747.5usft
Reference Site:	Rodney Robinson	MD Reference:	KB @ 3747.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Rodney Robinson Fed Com #128H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference				Offset			Semi Major Axis			Distance			Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Tooface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.0	5,169.2	5,184.3	5,163.4	19.6	20.1	-137.72	-316.4	205.4	560.7	521.7	38.97	14.387		
5,300.0	5,268.2	5,283.6	5,261.7	20.0	20.6	-137.26	-330.2	205.6	571.9	532.0	39.87	14.345		
5,400.0	5,367.2	5,382.9	5,360.0	20.4	21.1	-136.82	-344.0	205.8	583.1	542.4	40.77	14.304		
5,500.0	5,466.3	5,482.1	5,458.3	20.8	21.6	-136.40	-357.9	206.1	594.4	552.8	41.67	14.266		
5,600.0	5,565.3	5,581.4	5,556.6	21.2	22.1	-136.00	-371.7	206.3	605.7	563.2	42.57	14.229		
5,700.0	5,664.3	5,680.7	5,654.9	21.6	22.7	-135.60	-385.5	206.5	617.1	573.6	43.48	14.193		
5,800.0	5,763.3	5,780.0	5,753.2	22.1	23.2	-135.23	-399.3	206.8	628.4	584.0	44.38	14.159		
5,900.0	5,862.4	5,879.2	5,851.5	22.5	23.7	-134.86	-413.1	207.0	639.8	594.5	45.29	14.127		
6,000.0	5,961.4	5,978.5	5,949.8	22.9	24.2	-134.51	-426.9	207.2	651.2	605.0	46.20	14.096		
6,100.0	6,060.4	6,077.8	6,048.1	23.3	24.7	-134.17	-440.7	207.5	662.7	615.6	47.11	14.066		
6,200.0	6,159.4	6,177.0	6,146.4	23.7	25.2	-133.84	-454.6	207.7	674.1	626.1	48.03	14.037		
6,300.0	6,258.5	6,276.3	6,244.7	24.2	25.7	-133.53	-468.4	207.9	685.6	636.7	48.94	14.010		
6,400.0	6,357.5	6,375.6	6,343.0	24.6	26.3	-133.22	-482.2	208.2	697.1	647.3	49.85	13.983		
6,500.0	6,456.5	6,476.3	6,442.9	25.0	26.8	-132.95	-495.8	208.4	708.6	657.8	50.77	13.956		
6,600.0	6,555.6	6,578.5	6,544.4	25.4	27.3	-132.89	-507.2	208.6	719.7	668.0	51.67	13.930		
6,700.0	6,654.6	6,680.6	6,646.2	25.8	27.7	-133.03	-515.8	208.7	730.5	677.9	52.51	13.910		
6,800.0	6,753.6	6,782.7	6,748.1	26.3	28.1	-133.39	-521.7	208.8	740.8	687.5	53.31	13.896		
6,900.0	6,852.6	6,884.6	6,849.9	26.7	28.5	-133.94	-524.9	208.9	750.9	696.8	54.06	13.890		
7,000.0	6,951.7	6,985.4	6,950.7	27.1	28.8	-134.65	-525.5	208.9	760.8	706.0	54.75	13.895		
7,100.0	7,050.7	7,084.4	7,049.7	27.5	29.1	-135.39	-525.5	208.9	770.6	715.2	55.41	13.909		
7,200.0	7,149.7	7,183.4	7,148.7	27.9	29.3	-136.10	-525.5	208.9	780.7	724.6	56.06	13.925		
7,300.0	7,248.7	7,282.4	7,247.7	28.4	29.6	-136.80	-525.5	208.9	790.8	734.1	56.72	13.943		
7,400.0	7,347.8	7,381.5	7,346.8	28.8	29.9	-137.48	-525.5	208.9	801.0	743.7	57.37	13.962		
7,500.0	7,446.8	7,480.5	7,445.8	29.2	30.2	-138.14	-525.5	208.9	811.4	753.4	58.03	13.983		
7,598.2	7,544.1	7,577.7	7,543.1	29.6	30.5	-138.77	-525.5	208.9	821.7	763.0	58.67	14.005		
7,600.0	7,545.8	7,579.5	7,544.8	29.6	30.5	-138.78	-525.5	208.9	821.9	763.2	58.68	14.006		
7,700.0	7,645.0	7,678.7	7,644.0	30.0	30.8	-139.45	-525.5	208.9	831.4	772.1	59.33	14.012		
7,800.0	7,744.5	7,778.2	7,743.5	30.4	31.1	-139.96	-525.5	208.9	839.0	779.0	59.98	13.988		
7,900.0	7,844.3	7,877.9	7,843.3	30.8	31.3	-140.34	-525.5	208.9	844.7	784.1	60.63	13.932		
8,000.0	7,944.1	7,977.8	7,943.1	31.2	31.6	-140.58	-525.5	208.9	848.3	787.1	61.27	13.846		
8,100.0	8,044.1	8,077.8	8,043.1	31.5	31.9	-140.68	-525.5	208.9	850.0	788.1	61.91	13.730		
8,131.5	8,075.7	8,109.3	8,074.7	31.6	32.0	89.87	-525.5	208.9	850.1	788.0	62.10	13.688		
8,200.0	8,144.1	8,177.8	8,143.1	31.8	32.2	89.87	-525.5	208.9	850.1	787.6	62.52	13.596		
8,300.0	8,244.1	8,277.8	8,243.1	32.1	32.5	89.87	-525.5	208.9	850.1	787.0	63.14	13.464		
8,400.0	8,344.1	8,377.8	8,343.1	32.4	32.8	89.87	-525.5	208.9	850.1	786.3	63.76	13.333		
8,500.0	8,444.1	8,477.8	8,443.1	32.7	33.1	89.87	-525.5	208.9	850.1	785.7	64.38	13.205		
8,600.0	8,544.1	8,577.8	8,543.1	33.0	33.4	89.87	-525.5	208.9	850.1	785.1	65.00	13.079		
8,700.0	8,644.1	8,677.8	8,643.1	33.3	33.7	89.87	-525.5	208.9	850.1	784.5	65.62	12.954		
8,800.0	8,744.1	8,777.8	8,743.1	33.6	34.0	89.87	-525.5	208.9	850.1	783.8	66.25	12.832		
8,900.0	8,844.1	8,877.8	8,843.1	34.0	34.3	89.87	-525.5	208.9	850.1	783.2	66.87	12.712		
9,000.0	8,944.1	8,977.8	8,943.1	34.3	34.7	89.87	-525.5	208.9	850.1	782.6	67.50	12.593		
9,100.0	9,044.1	9,077.8	9,043.1	34.6	35.0	89.87	-525.5	208.9	850.1	782.0	68.14	12.477		
9,200.0	9,144.1	9,205.8	9,170.6	34.9	35.3	89.30	-517.1	207.2	848.9	780.1	68.83	12.334		
9,300.0	9,244.1	9,334.8	9,294.1	35.2	35.6	86.88	-481.6	200.0	844.0	774.8	69.28	12.183		
9,400.0	9,344.1	9,443.5	9,389.7	35.5	35.7	83.39	-431.3	189.9	837.9	768.3	69.63	12.034		
9,500.0	9,444.1	9,530.4	9,458.1	35.8	35.9	79.73	-378.8	179.3	834.0	764.1	69.93	11.926		
9,532.3	9,476.4	9,554.2	9,475.4	35.9	35.9	78.60	-362.7	176.1	833.7	763.7	70.00	11.911		
9,600.0	9,544.1	9,598.5	9,505.6	36.2	36.0	76.38	-331.0	169.7	835.2	765.2	70.03	11.926		
9,700.0	9,644.1	9,652.0	9,538.6	36.5	36.2	73.50	-289.8	161.4	843.5	773.8	69.72	12.098		
9,800.0	9,744.1	9,694.4	9,561.9	36.8	36.4	71.09	-255.0	154.4	860.2	791.3	68.89	12.487		
9,900.0	9,844.1	9,728.5	9,578.7	37.1	36.5	69.10	-226.0	148.5	885.7	818.2	67.52	13.118		
10,000.0	9,944.1	9,750.0	9,588.4	37.4	36.6	67.82	-207.2	144.7	919.8	854.2	65.58	14.026		

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Rodney Robinson Fed Com #128H
Project:	Antelope Ridge	TVD Reference:	KB @ 3747.5usft
Reference Site:	Rodney Robinson	MD Reference:	KB @ 3747.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Rodney Robinson Fed Com #128H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft		
Survey Program: 0-MWD													Rodney Robinson - Rodney Robinson Fed Com #108H - Wellbore #1 - BLM Plan #1		Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
10,082.9	10,027.0	9,775.7	9,599.0	37.7	36.8	66.28	-184.2	140.1	954.2	890.3	63.90	14.934				
10,100.0	10,044.1	9,779.5	9,600.5	37.8	36.8	62.29	-180.8	139.4	961.9	898.4	63.51	15.146				
10,150.0	10,094.0	9,800.0	9,608.1	37.9	36.9	58.95	-162.1	135.6	984.3	921.8	62.49	15.752				
10,200.0	10,143.3	9,800.0	9,608.1	38.0	36.9	56.87	-162.1	135.6	1,006.4	945.3	61.11	16.469				
10,250.0	10,191.8	9,817.5	9,614.0	38.2	37.0	54.02	-146.0	132.4	1,028.0	968.0	59.99	17.136				
10,300.0	10,239.0	9,831.7	9,618.5	38.3	37.1	51.53	-132.7	129.7	1,048.9	990.1	58.81	17.837				
10,350.0	10,284.5	9,850.0	9,623.7	38.4	37.3	49.09	-115.6	126.2	1,068.9	1,011.2	57.68	18.532				
10,400.0	10,328.2	9,861.9	9,626.8	38.4	37.4	47.12	-104.3	124.0	1,087.8	1,031.3	56.48	19.261				
10,450.0	10,369.5	9,877.7	9,630.5	38.5	37.5	45.20	-89.2	120.9	1,105.4	1,050.1	55.36	19.969				
10,500.0	10,408.2	9,900.0	9,635.1	38.5	37.7	43.30	-67.9	116.6	1,121.6	1,067.3	54.35	20.636				
10,550.0	10,444.1	9,900.0	9,635.1	38.5	37.7	42.25	-67.9	116.6	1,136.3	1,083.2	53.12	21.394				
10,600.0	10,476.7	9,927.3	9,639.5	38.6	37.9	40.62	-41.5	111.3	1,149.2	1,096.9	52.28	21.979				
10,650.0	10,505.9	9,950.0	9,642.2	38.6	38.1	39.33	-19.4	106.8	1,160.3	1,108.9	51.44	22.556				
10,700.0	10,531.5	9,950.0	9,642.2	38.5	38.1	38.72	-19.4	106.8	1,169.8	1,119.3	50.49	23.170				
10,750.0	10,553.3	9,979.1	9,644.3	38.5	38.4	37.66	9.1	101.1	1,176.9	1,127.1	49.87	23.598				
10,800.0	10,571.0	10,000.0	9,644.9	38.5	38.7	36.94	29.6	97.0	1,182.3	1,133.0	49.28	23.990				
10,850.0	10,584.6	10,023.1	9,645.0	38.4	38.9	36.36	52.2	92.5	1,185.5	1,136.6	48.82	24.282				
10,900.0	10,594.0	10,061.2	9,645.0	38.4	39.4	35.79	89.7	85.4	1,185.9	1,137.3	48.55	24.424				
10,950.0	10,599.0	10,100.0	9,645.0	38.4	39.9	35.49	127.9	78.7	1,183.3	1,134.9	48.41	24.442				
10,982.9	10,600.0	10,125.9	9,645.0	38.3	40.2	35.44	153.5	74.5	1,179.9	1,131.5	48.42	24.370				
11,000.0	10,599.9	10,139.4	9,645.0	38.3	40.4	35.37	166.8	72.4	1,177.9	1,129.4	48.44	24.317				
11,100.0	10,599.3	10,219.0	9,645.0	38.2	41.5	35.04	245.6	61.4	1,167.6	1,118.8	48.73	23.959				
11,168.3	10,598.3	10,274.0	9,645.0	38.2	42.4	34.88	300.3	55.1	1,162.2	1,113.1	49.14	23.653				
11,200.0	10,597.8	10,300.0	9,645.0	38.3	42.8	34.80	326.1	52.5	1,160.1	1,110.7	49.36	23.501				
11,300.0	10,596.0	10,380.7	9,645.0	38.6	44.2	34.60	406.5	45.8	1,154.5	1,104.3	50.24	22.982				
11,400.0	10,594.3	10,462.0	9,645.0	39.1	45.6	34.49	487.7	41.4	1,150.6	1,099.3	51.30	22.429				
11,500.0	10,592.5	10,543.5	9,645.0	39.6	47.1	34.48	569.2	39.3	1,148.2	1,095.7	52.54	21.855				
11,600.0	10,590.8	10,642.4	9,645.0	40.1	49.0	34.53	668.1	38.3	1,146.8	1,092.7	54.15	21.179				
11,700.0	10,589.1	10,742.4	9,645.0	40.7	51.1	34.58	768.1	37.3	1,145.4	1,089.5	55.88	20.497				
11,800.0	10,587.3	10,842.4	9,645.0	41.4	53.2	34.63	868.1	36.3	1,143.9	1,086.2	57.72	19.819				
11,900.0	10,585.6	10,942.4	9,645.0	42.1	55.4	34.68	968.0	35.3	1,142.5	1,082.8	59.65	19.152				
12,000.0	10,583.8	11,042.4	9,645.0	42.9	57.8	34.73	1,068.0	34.3	1,141.1	1,079.4	61.68	18.500				
12,100.0	10,582.1	11,142.3	9,645.0	43.7	60.1	34.78	1,168.0	33.3	1,139.6	1,075.8	63.78	17.867				
12,200.0	10,580.3	11,242.3	9,645.0	44.6	62.6	34.83	1,268.0	32.3	1,138.2	1,072.2	65.97	17.254				
12,300.0	10,578.6	11,342.3	9,645.0	45.5	65.1	34.88	1,368.0	31.3	1,136.8	1,068.5	68.21	16.664				
12,400.0	10,576.8	11,442.3	9,645.0	46.4	67.6	34.93	1,467.9	30.3	1,135.3	1,064.8	70.53	16.098				
12,500.0	10,575.1	11,542.3	9,645.0	47.4	70.2	34.98	1,567.9	29.4	1,133.9	1,061.0	72.90	15.555				
12,600.0	10,573.3	11,642.3	9,645.0	48.4	72.8	35.03	1,667.9	28.4	1,132.5	1,057.1	75.32	15.036				
12,700.0	10,571.6	11,742.2	9,645.0	49.4	75.5	35.08	1,767.9	27.4	1,131.0	1,053.2	77.79	14.539				
12,800.0	10,569.9	11,842.2	9,645.0	50.5	78.2	35.13	1,867.9	26.4	1,129.6	1,049.3	80.31	14.066				
12,900.0	10,568.1	11,942.2	9,645.0	51.6	80.9	35.18	1,967.8	25.4	1,128.2	1,045.3	82.87	13.614				
13,000.0	10,566.4	12,042.2	9,645.0	52.8	83.6	35.23	2,067.8	24.4	1,126.7	1,041.3	85.46	13.184				
13,100.0	10,564.6	12,142.2	9,645.0	53.9	86.4	35.28	2,167.8	23.4	1,125.3	1,037.2	88.10	12.774				
13,200.0	10,562.9	12,242.2	9,645.0	55.1	89.2	35.34	2,267.8	22.4	1,123.9	1,033.1	90.77	12.382				
13,300.0	10,561.1	12,342.2	9,645.0	56.3	92.0	35.39	2,367.8	21.4	1,122.5	1,029.0	93.46	12.010				
13,400.0	10,559.4	12,442.1	9,645.0	57.6	94.8	35.44	2,467.7	20.4	1,121.0	1,024.9	96.19	11.654				
13,500.0	10,557.6	12,542.1	9,645.0	58.8	97.6	35.49	2,567.7	19.4	1,119.6	1,020.7	98.95	11.315				
13,600.0	10,555.9	12,642.1	9,645.0	60.1	100.5	35.54	2,667.7	18.4	1,118.2	1,016.5	101.73	10.992				
13,700.0	10,554.1	12,742.1	9,645.0	61.4	103.3	35.59	2,767.7	17.4	1,116.8	1,012.2	104.54	10.683				
13,800.0	10,552.4	12,842.1	9,645.0	62.7	106.2	35.65	2,867.6	16.4	1,115.4	1,008.0	107.37	10.388				
13,900.0	10,550.6	12,942.1	9,645.0	64.0	109.1	35.70	2,967.6	15.4	1,113.9	1,003.7	110.22	10.106				
14,000.0	10,548.9	13,042.0	9,645.0	65.4	112.0	35.75	3,067.6	14.4	1,112.5	999.4	113.09	9.837				

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Rodney Robinson Fed Com #128H
Project:	Antelope Ridge	TVD Reference:	KB @ 3747.5usft
Reference Site:	Rodney Robinson	MD Reference:	KB @ 3747.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Rodney Robinson Fed Com #128H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												Offset Well Error:	0.0 usft
Reference				Offset		Semi Major Axis			Distance				Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Tooface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
14,100.0	10,547.2	13,142.0	9,645.0	66.7	114.9	35.80	3,167.6	13.4	1,111.1	995.1	115.99	9.580	
14,200.0	10,545.4	13,242.0	9,645.0	68.1	117.8	35.86	3,267.6	12.4	1,109.7	990.8	118.90	9.333	
14,300.0	10,543.7	13,342.0	9,645.0	69.5	120.7	35.91	3,367.5	11.4	1,108.3	986.5	121.83	9.097	
14,400.0	10,541.9	13,442.0	9,645.0	70.9	123.6	35.96	3,467.5	10.4	1,106.9	982.1	124.77	8.871	
14,500.0	10,540.2	13,542.0	9,645.0	72.3	126.6	36.02	3,567.5	9.4	1,105.5	977.7	127.74	8.654	
14,600.0	10,538.4	13,642.0	9,645.0	73.7	129.5	36.07	3,667.5	8.4	1,104.0	973.3	130.71	8.446	
14,700.0	10,536.7	13,741.9	9,645.0	75.1	132.5	36.12	3,767.5	7.4	1,102.6	968.9	133.71	8.246	
14,800.0	10,534.9	13,841.9	9,645.0	76.5	135.4	36.18	3,867.4	6.4	1,101.2	964.5	136.72	8.055	
14,900.0	10,533.2	13,941.9	9,645.0	78.0	138.4	36.23	3,967.4	5.4	1,099.8	960.1	139.74	7.870	
15,000.0	10,531.4	14,041.9	9,645.0	79.4	141.3	36.28	4,067.4	4.4	1,098.4	955.6	142.78	7.693	
15,100.0	10,529.7	14,141.9	9,645.0	80.9	144.3	36.34	4,167.4	3.4	1,097.0	951.2	145.83	7.523	
15,200.0	10,527.9	14,241.9	9,645.0	82.4	147.3	36.39	4,267.4	2.4	1,095.6	946.7	148.89	7.358	
15,300.0	10,526.2	14,341.8	9,645.0	83.8	150.2	36.45	4,367.3	1.4	1,094.2	942.2	151.97	7.200	
15,400.0	10,524.5	14,441.8	9,645.0	85.3	153.2	36.50	4,467.3	0.4	1,092.8	937.7	155.05	7.048	
15,500.0	10,522.7	14,541.8	9,645.0	86.8	156.2	36.55	4,567.3	-0.6	1,091.4	933.2	158.15	6.901	
15,600.0	10,521.0	14,641.8	9,645.0	88.3	159.2	36.61	4,667.3	-1.6	1,090.0	928.7	161.26	6.759	
15,700.0	10,519.2	14,741.8	9,645.0	89.8	162.2	36.66	4,767.3	-2.6	1,088.6	924.2	164.38	6.622	
15,800.0	10,517.5	14,841.8	9,645.0	91.3	165.2	36.72	4,867.2	-3.6	1,087.2	919.7	167.52	6.490	
15,900.0	10,515.7	14,941.8	9,645.0	92.8	168.2	36.77	4,967.2	-4.6	1,085.8	915.1	170.66	6.362	
16,000.0	10,514.0	15,041.7	9,645.0	94.3	171.2	36.83	5,067.2	-5.6	1,084.4	910.6	173.82	6.239	
16,100.0	10,512.2	15,141.7	9,645.0	95.8	174.2	36.88	5,167.2	-6.6	1,083.0	906.0	176.98	6.119	
16,200.0	10,510.5	15,241.7	9,645.0	97.3	177.2	36.94	5,267.2	-7.6	1,081.6	901.4	180.16	6.004	
16,300.0	10,508.7	15,341.7	9,645.0	98.9	180.2	37.00	5,367.1	-8.5	1,080.2	896.8	183.34	5.892	
16,400.0	10,507.0	15,441.7	9,645.0	100.4	183.2	37.05	5,467.1	-9.5	1,078.8	892.3	186.54	5.783	
16,500.0	10,505.3	15,541.7	9,645.0	101.9	186.2	37.11	5,567.1	-10.5	1,077.4	887.7	189.74	5.678	
16,600.0	10,503.5	15,641.6	9,645.0	103.5	189.2	37.16	5,667.1	-11.5	1,076.0	883.0	192.95	5.576	
16,700.0	10,501.8	15,741.6	9,645.0	105.0	192.2	37.22	5,767.1	-12.5	1,074.6	878.4	196.18	5.478	
16,800.0	10,500.0	15,841.6	9,645.0	106.6	195.3	37.28	5,867.0	-13.5	1,073.2	873.8	199.41	5.382	
16,900.0	10,498.3	15,941.6	9,645.0	108.1	198.3	37.33	5,967.0	-14.5	1,071.8	869.2	202.65	5.289	
17,000.0	10,496.5	16,041.6	9,645.0	109.7	201.3	37.39	6,067.0	-15.5	1,070.4	864.5	205.90	5.199	
17,100.0	10,494.8	16,141.6	9,645.0	111.2	204.3	37.45	6,167.0	-16.5	1,069.1	859.9	209.16	5.111	
17,200.0	10,493.0	16,241.6	9,645.0	112.8	207.3	37.50	6,267.0	-17.5	1,067.7	855.2	212.43	5.026	
17,300.0	10,491.3	16,341.5	9,645.0	114.3	210.4	37.56	6,366.9	-18.5	1,066.3	850.6	215.71	4.943	
17,400.0	10,489.5	16,441.5	9,645.0	115.9	213.4	37.62	6,466.9	-19.5	1,064.9	845.9	219.00	4.863	
17,500.0	10,487.8	16,541.5	9,645.0	117.5	216.4	37.68	6,566.9	-20.5	1,063.5	841.2	222.29	4.784	
17,600.0	10,486.0	16,641.5	9,645.0	119.0	219.5	37.73	6,666.9	-21.5	1,062.1	836.5	225.60	4.708	
17,700.0	10,484.3	16,741.5	9,645.0	120.6	222.5	37.79	6,766.9	-22.5	1,060.8	831.8	228.91	4.634	
17,800.0	10,482.6	16,841.5	9,645.0	122.2	225.5	37.85	6,866.8	-23.5	1,059.4	827.1	232.23	4.562	
17,900.0	10,480.8	16,941.5	9,645.0	123.7	228.6	37.91	6,966.8	-24.5	1,058.0	822.4	235.56	4.491	
18,000.0	10,479.1	17,041.4	9,645.0	125.3	231.6	37.96	7,066.8	-25.5	1,056.6	817.7	238.90	4.423	
18,100.0	10,477.3	17,141.4	9,645.0	126.9	234.6	38.02	7,166.8	-26.5	1,055.2	813.0	242.24	4.356	
18,200.0	10,475.6	17,241.4	9,645.0	128.5	237.7	38.08	7,266.8	-27.5	1,053.9	808.3	245.60	4.291	
18,300.0	10,473.8	17,341.4	9,645.0	130.1	240.7	38.14	7,366.7	-28.5	1,052.5	803.5	248.96	4.228	
18,400.0	10,472.1	17,441.4	9,645.0	131.7	243.7	38.20	7,466.7	-29.5	1,051.1	798.8	252.33	4.166	
18,500.0	10,470.3	17,541.4	9,645.0	133.2	246.8	38.26	7,566.7	-30.5	1,049.7	794.0	255.71	4.105	
18,600.0	10,468.6	17,641.3	9,645.0	134.8	249.8	38.32	7,666.7	-31.5	1,048.4	789.3	259.10	4.046	
18,700.0	10,466.8	17,741.3	9,645.0	136.4	252.9	38.38	7,766.7	-32.5	1,047.0	784.5	262.49	3.989	
18,800.0	10,465.1	17,841.3	9,645.0	138.0	255.9	38.44	7,866.6	-33.5	1,045.6	779.7	265.90	3.933	
18,900.0	10,463.3	17,941.3	9,645.0	139.6	258.9	38.50	7,966.6	-34.5	1,044.3	775.0	269.31	3.878	
19,000.0	10,461.6	18,041.3	9,645.0	141.2	262.0	38.55	8,066.6	-35.5	1,042.9	770.2	272.73	3.824	
19,100.0	10,459.9	18,141.3	9,645.0	142.8	265.0	38.61	8,166.6	-36.5	1,041.5	765.4	276.15	3.772	
19,200.0	10,458.1	18,241.3	9,645.0	144.4	268.1	38.67	8,266.6	-37.5	1,040.2	760.6	279.59	3.720	

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Rodney Robinson Fed Com #128H
Project:	Antelope Ridge	TVD Reference:	KB @ 3747.5usft
Reference Site:	Rodney Robinson	MD Reference:	KB @ 3747.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Rodney Robinson Fed Com #128H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft		
Survey Program: 0-MWD													Rodney Robinson - Rodney Robinson Fed Com #108H - Wellbore #1 - BLM Plan #1		Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
19,300.0	10,456.4	18,341.2	9,645.0	146.0	271.1	38.73	8,366.5	-38.5	1,038.8	755.8	283.03	3.670				
19,400.0	10,454.6	18,441.2	9,645.0	147.6	274.2	38.80	8,466.5	-39.5	1,037.4	751.0	286.48	3.621				
19,500.0	10,452.9	18,541.2	9,645.0	149.2	277.2	38.86	8,566.5	-40.5	1,036.1	746.1	289.94	3.573				
19,600.0	10,451.1	18,641.2	9,645.0	150.8	280.3	38.92	8,666.5	-41.5	1,034.7	741.3	293.41	3.527				
19,700.0	10,449.4	18,741.2	9,645.0	152.4	283.3	38.98	8,766.5	-42.5	1,033.4	736.5	296.89	3.481				
19,800.0	10,447.6	18,841.2	9,645.0	154.0	286.4	39.04	8,866.4	-43.5	1,032.0	731.6	300.37	3.436				
19,900.0	10,445.9	18,941.1	9,645.0	155.6	289.4	39.10	8,966.4	-44.5	1,030.7	726.8	303.86	3.392				
20,000.0	10,444.1	19,041.1	9,645.0	157.2	292.5	39.16	9,066.4	-45.5	1,029.3	721.9	307.36	3.349				
20,100.0	10,442.4	19,141.1	9,645.0	158.8	295.5	39.22	9,166.4	-46.4	1,027.9	717.1	310.86	3.307				
20,200.0	10,440.7	19,241.1	9,645.0	160.4	298.6	39.28	9,266.4	-47.4	1,026.6	712.2	314.38	3.265				
20,300.0	10,438.9	19,341.1	9,645.0	162.0	301.6	39.35	9,366.3	-48.4	1,025.2	707.3	317.90	3.225				
20,400.0	10,437.2	19,441.1	9,645.0	163.6	304.7	39.41	9,466.3	-49.4	1,023.9	702.5	321.43	3.185				
20,500.0	10,435.4	19,541.1	9,645.0	165.3	307.7	39.47	9,566.3	-50.4	1,022.5	697.6	324.97	3.147				
20,600.0	10,433.7	19,641.0	9,645.0	166.9	310.8	39.53	9,666.3	-51.4	1,021.2	692.7	328.52	3.109				
20,700.0	10,431.9	19,741.0	9,645.0	168.5	313.8	39.59	9,766.3	-52.4	1,019.9	687.8	332.07	3.071				
20,800.0	10,430.2	19,841.0	9,645.0	170.1	316.9	39.66	9,866.2	-53.4	1,018.5	682.9	335.63	3.035				
20,867.4	10,429.0	19,908.4	9,645.0	171.2	318.9	39.70	9,933.7	-54.1	1,017.6	679.6	338.04	3.010 SF				

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Rodney Robinson Fed Com #128H
Project:	Antelope Ridge	TVD Reference:	KB @ 3747.5usft
Reference Site:	Rodney Robinson	MD Reference:	KB @ 3747.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Rodney Robinson Fed Com #128H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference				Offset		Semi Major Axis			Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	89.56	0.6	80.1	80.1					
100.0	100.0	100.0	100.0	0.1	0.1	89.56	0.6	80.1	80.1	79.8	0.26	312.450		
200.0	200.0	200.0	200.0	0.5	0.5	89.56	0.6	80.1	80.1	79.1	0.97	82.284		
300.0	300.0	300.0	300.0	0.8	0.8	89.56	0.6	80.1	80.1	78.4	1.69	47.381		
400.0	400.0	400.0	400.0	1.2	1.2	89.56	0.6	80.1	80.1	77.7	2.41	33.269		
500.0	500.0	500.0	500.0	1.6	1.6	89.56	0.6	80.1	80.1	77.0	3.12	25.634		
600.0	600.0	600.0	600.0	1.9	1.9	89.56	0.6	80.1	80.1	76.2	3.84	20.849		
700.0	700.0	700.0	700.0	2.3	2.3	89.56	0.6	80.1	80.1	75.5	4.56	17.570		
800.0	800.0	800.0	800.0	2.6	2.6	89.56	0.6	80.1	80.1	74.8	5.27	15.182		
900.0	900.0	900.0	900.0	3.0	3.0	89.56	0.6	80.1	80.1	74.1	5.99	13.365		
1,000.0	1,000.0	1,000.0	1,000.0	3.4	3.4	89.56	0.6	80.1	80.1	73.4	6.71	11.937		
1,100.0	1,100.0	1,100.0	1,100.0	3.7	3.7	89.56	0.6	80.1	80.1	72.7	7.43	10.785		
1,200.0	1,200.0	1,200.0	1,200.0	4.1	4.1	89.56	0.6	80.1	80.1	71.9	8.14	9.835		
1,300.0	1,300.0	1,300.0	1,300.0	4.4	4.4	89.56	0.6	80.1	80.1	71.2	8.86	9.039		
1,400.0	1,400.0	1,400.0	1,400.0	4.8	4.8	89.56	0.6	80.1	80.1	70.5	9.58	8.362		
1,500.0	1,500.0	1,500.0	1,500.0	5.1	5.1	89.56	0.6	80.1	80.1	69.8	10.29	7.780 CC		
1,600.0	1,600.0	1,600.6	1,600.6	5.5	5.5	-140.82	-0.2	79.7	80.4	69.4	10.98	7.321 ES		
1,700.0	1,700.0	1,701.2	1,701.2	5.8	5.8	-140.30	-2.6	78.6	81.3	69.7	11.64	6.985		
1,800.0	1,799.9	1,801.8	1,801.6	6.2	6.2	-139.46	-6.6	76.7	82.8	70.5	12.31	6.730		
1,900.0	1,899.7	1,902.3	1,902.0	6.5	6.5	-138.33	-12.2	74.1	85.0	72.0	12.98	6.545		
2,000.0	1,999.4	2,002.8	2,002.2	6.8	6.9	-136.96	-19.4	70.7	87.8	74.1	13.67	6.421		
2,100.0	2,098.9	2,103.3	2,102.2	7.2	7.2	-135.40	-28.1	66.6	91.3	76.9	14.38	6.349		
2,200.0	2,198.3	2,203.7	2,201.9	7.5	7.6	-133.71	-38.5	61.8	95.5	80.4	15.11	6.321		
2,300.0	2,297.4	2,304.1	2,301.4	7.9	8.0	-131.94	-50.4	56.2	100.5	84.6	15.87	6.330		
2,400.0	2,396.4	2,403.9	2,400.2	8.3	8.4	-130.31	-63.0	50.3	105.9	89.2	16.66	6.355		
2,500.0	2,495.5	2,503.7	2,499.1	8.7	8.9	-128.85	-75.6	44.4	111.4	93.9	17.47	6.375		
2,600.0	2,594.5	2,603.5	2,597.9	9.0	9.3	-127.52	-88.1	38.6	116.9	98.6	18.29	6.392		
2,700.0	2,693.5	2,703.3	2,696.8	9.4	9.8	-126.31	-100.7	32.7	122.5	103.4	19.13	6.404		
2,800.0	2,792.5	2,803.1	2,795.6	9.8	10.3	-125.21	-113.3	26.8	128.1	108.2	19.98	6.414		
2,900.0	2,891.6	2,902.9	2,894.4	10.2	10.7	-124.20	-125.9	20.9	133.8	113.0	20.84	6.422		
3,000.0	2,990.6	3,002.7	2,993.3	10.6	11.2	-123.27	-138.5	15.0	139.6	117.8	21.71	6.427		
3,100.0	3,089.6	3,102.5	3,092.1	11.0	11.7	-122.42	-151.1	9.1	145.3	122.7	22.59	6.432		
3,200.0	3,188.6	3,202.3	3,191.0	11.4	12.2	-121.63	-163.6	3.3	151.1	127.6	23.48	6.435		
3,300.0	3,287.7	3,302.2	3,289.8	11.8	12.7	-120.90	-176.2	-2.6	156.9	132.5	24.38	6.437		
3,400.0	3,386.7	3,402.0	3,388.6	12.2	13.2	-120.22	-188.8	-8.5	162.8	137.5	25.28	6.439		
3,500.0	3,485.7	3,501.8	3,487.5	12.6	13.7	-119.59	-201.4	-14.4	168.6	142.4	26.18	6.440		
3,600.0	3,584.8	3,601.6	3,586.3	13.0	14.2	-119.00	-214.0	-20.3	174.5	147.4	27.10	6.440		
3,700.0	3,683.8	3,701.4	3,685.2	13.4	14.8	-118.45	-226.6	-26.2	180.4	152.4	28.01	6.440		
3,800.0	3,782.8	3,801.2	3,784.0	13.8	15.3	-117.94	-239.1	-32.1	186.3	157.4	28.93	6.440		
3,900.0	3,881.8	3,901.0	3,882.8	14.2	15.8	-117.46	-251.7	-37.9	192.2	162.4	29.85	6.439		
4,000.0	3,980.9	4,000.8	3,981.7	14.6	16.3	-117.00	-264.3	-43.8	198.2	167.4	30.78	6.439		
4,100.0	4,079.9	4,100.7	4,080.5	15.0	16.8	-116.57	-276.9	-49.7	204.1	172.4	31.71	6.438		
4,200.0	4,178.9	4,200.5	4,179.4	15.4	17.4	-116.17	-289.5	-55.6	210.1	177.5	32.64	6.437		
4,300.0	4,277.9	4,300.3	4,278.2	15.8	17.9	-115.79	-302.1	-61.5	216.1	182.5	33.57	6.436		
4,400.0	4,377.0	4,400.1	4,377.1	16.3	18.4	-115.43	-314.6	-67.4	222.0	187.5	34.51	6.435		
4,500.0	4,476.0	4,499.9	4,475.9	16.7	18.9	-115.09	-327.2	-73.3	228.0	192.6	35.44	6.434		
4,600.0	4,575.0	4,600.3	4,574.7	17.1	19.5	-114.76	-339.8	-79.1	234.0	197.6	36.39	6.432		
4,700.0	4,674.0	4,700.5	4,673.6	17.5	20.0	-114.46	-352.4	-85.0	240.0	202.7	37.33	6.431		
4,800.0	4,773.1	4,800.7	4,772.4	17.9	20.5	-114.16	-365.0	-90.9	246.1	207.8	38.27	6.429		
4,900.0	4,872.1	4,900.9	4,871.3	18.3	21.1	-113.88	-377.6	-96.8	252.1	212.9	39.22	6.428		
5,000.0	4,971.1	5,001.0	4,970.1	18.7	21.6	-113.62	-390.1	-102.7	258.1	217.9	40.16	6.426		
5,100.0	5,070.2	5,101.2	5,068.9	19.2	22.2	-113.36	-402.7	-108.6	264.1	223.0	41.11	6.425		

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Rodney Robinson Fed Com #128H
Project:	Antelope Ridge	TVD Reference:	KB @ 3747.5usft
Reference Site:	Rodney Robinson	MD Reference:	KB @ 3747.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Rodney Robinson Fed Com #128H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft		
Survey Program: 0-MWD													Rodney Robinson - Rodney Robinson Fed Com #114H - Wellbore #1 - BLM Plan #1		Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
5,200.0	5,169.2	5,201.4	5,167.8	19.6	22.7	-113.12	-415.3	-114.5	270.2	228.1	42.06	6.423				
5,300.0	5,268.2	5,301.6	5,266.6	20.0	23.2	-112.89	-427.9	-120.3	276.2	233.2	43.01	6.422				
5,400.0	5,367.2	5,398.2	5,365.5	20.4	23.8	-112.67	-440.5	-126.2	282.2	238.3	43.94	6.423				
5,500.0	5,466.3	5,498.0	5,464.3	20.8	24.3	-112.45	-453.0	-132.1	288.3	243.4	44.89	6.422				
5,600.0	5,565.3	5,602.2	5,563.1	21.2	24.9	-112.25	-465.6	-138.0	294.3	248.5	45.86	6.418				
5,700.0	5,664.3	5,702.4	5,662.0	21.6	25.4	-112.05	-478.2	-143.9	300.4	253.6	46.81	6.417				
5,800.0	5,763.3	5,797.4	5,760.8	22.1	25.9	-111.87	-490.8	-149.8	306.4	258.7	47.74	6.419				
5,900.0	5,862.4	5,897.7	5,860.2	22.5	26.4	-111.89	-502.4	-155.2	312.4	263.8	48.67	6.419				
6,000.0	5,961.4	5,998.0	5,960.0	22.9	26.9	-112.38	-511.7	-159.6	318.3	268.7	49.55	6.423				
6,100.0	6,060.4	6,098.0	6,059.7	23.3	27.3	-113.32	-518.6	-162.8	324.1	273.7	50.38	6.432				
6,200.0	6,159.4	6,197.7	6,159.3	23.7	27.7	-114.68	-523.1	-164.9	329.9	278.7	51.14	6.450				
6,300.0	6,258.5	6,297.0	6,258.5	24.2	28.0	-116.42	-525.3	-165.9	335.9	284.1	51.84	6.480				
6,400.0	6,357.5	6,404.1	6,357.5	24.6	28.3	-118.45	-525.5	-166.0	342.4	289.9	52.47	6.525				
6,500.0	6,456.5	6,505.0	6,456.5	25.0	28.6	-120.44	-525.5	-166.0	349.3	296.2	53.06	6.583				
6,600.0	6,555.6	6,606.0	6,555.6	25.4	28.8	-122.36	-525.5	-166.0	356.6	302.9	53.64	6.648				
6,700.0	6,654.6	6,707.0	6,654.6	25.8	29.1	-124.19	-525.5	-166.0	364.3	310.0	54.20	6.720				
6,800.0	6,753.6	6,807.9	6,753.6	26.3	29.4	-125.96	-525.5	-166.0	372.3	317.5	54.77	6.798				
6,900.0	6,852.6	6,908.9	6,852.6	26.7	29.7	-127.64	-525.5	-166.0	380.7	325.4	55.32	6.881				
7,000.0	6,951.7	7,009.9	6,951.7	27.1	29.9	-129.25	-525.5	-166.0	389.4	333.5	55.88	6.969				
7,100.0	7,050.7	7,089.1	7,050.7	27.5	30.1	-130.79	-525.5	-166.0	398.4	342.0	56.37	7.068				
7,200.0	7,149.7	7,188.2	7,149.7	27.9	30.4	-132.27	-525.5	-166.0	407.7	350.8	56.91	7.163				
7,300.0	7,248.7	7,287.2	7,248.7	28.4	30.7	-133.67	-525.5	-166.0	417.2	359.8	57.46	7.261				
7,400.0	7,347.8	7,386.2	7,347.8	28.8	31.0	-135.02	-525.5	-166.0	427.0	369.0	58.01	7.361				
7,500.0	7,446.8	7,485.2	7,446.8	29.2	31.2	-136.30	-525.5	-166.0	437.0	378.4	58.56	7.463				
7,598.2	7,544.1	7,582.5	7,544.1	29.6	31.5	-137.51	-525.5	-166.0	447.0	387.9	59.10	7.564				
7,600.0	7,545.8	7,584.3	7,545.8	29.6	31.5	-137.53	-525.5	-166.0	447.2	388.1	59.11	7.566				
7,700.0	7,645.0	7,683.5	7,645.0	30.0	31.8	-138.69	-525.5	-166.0	456.6	396.9	59.67	7.652				
7,800.0	7,744.5	7,783.0	7,744.5	30.4	32.1	-139.57	-525.5	-166.0	464.2	403.9	60.25	7.704				
7,900.0	7,844.3	7,882.7	7,844.3	30.8	32.4	-140.21	-525.5	-166.0	469.8	409.0	60.84	7.722				
8,000.0	7,944.1	7,982.6	7,944.1	31.2	32.6	-140.61	-525.5	-166.0	473.5	412.0	61.45	7.705				
8,100.0	8,044.1	8,082.6	8,044.1	31.5	32.9	-140.79	-525.5	-166.0	475.1	413.0	62.07	7.654				
8,131.5	8,075.7	8,114.1	8,075.7	31.6	33.0	89.76	-525.5	-166.0	475.2	412.9	62.27	7.632				
8,200.0	8,144.1	8,182.6	8,144.1	31.8	33.2	89.76	-525.5	-166.0	475.2	412.5	62.69	7.581				
8,300.0	8,244.1	8,282.6	8,244.1	32.1	33.5	89.76	-525.5	-166.0	475.2	411.9	63.30	7.507				
8,400.0	8,344.1	8,382.6	8,344.1	32.4	33.8	89.76	-525.5	-166.0	475.2	411.3	63.92	7.435				
8,500.0	8,444.1	8,482.6	8,444.1	32.7	34.1	89.76	-525.5	-166.0	475.2	410.7	64.53	7.364				
8,600.0	8,544.1	8,582.6	8,544.1	33.0	34.4	89.76	-525.5	-166.0	475.2	410.1	65.15	7.294				
8,700.0	8,644.1	8,682.6	8,644.1	33.3	34.7	89.76	-525.5	-166.0	475.2	409.4	65.78	7.225				
8,800.0	8,744.1	8,782.6	8,744.1	33.6	35.0	89.76	-525.5	-166.0	475.2	408.8	66.40	7.157				
8,900.0	8,844.1	8,882.6	8,844.1	34.0	35.3	89.76	-525.5	-166.0	475.2	408.2	67.03	7.090				
9,000.0	8,944.1	8,982.6	8,944.1	34.3	35.6	89.76	-525.5	-166.0	475.2	407.6	67.65	7.024				
9,100.0	9,044.1	9,082.6	9,044.1	34.6	35.9	89.76	-525.5	-166.0	475.2	406.9	68.28	6.959				
9,200.0	9,144.1	9,182.6	9,144.1	34.9	36.2	89.76	-525.5	-166.0	475.2	406.3	68.91	6.896				
9,300.0	9,244.1	9,282.6	9,244.1	35.2	36.5	89.76	-525.5	-166.0	475.2	405.7	69.55	6.833				
9,400.0	9,344.1	9,382.6	9,344.1	35.5	36.8	89.76	-525.5	-166.0	475.2	405.0	70.18	6.771				
9,500.0	9,444.1	9,482.6	9,444.1	35.8	37.1	89.76	-525.5	-166.0	475.2	404.4	70.82	6.710				
9,600.0	9,544.1	9,582.6	9,504.1	36.2	37.3	89.11	-520.1	-164.7	476.8	405.7	71.18	6.699				
9,700.0	9,644.1	9,646.0	9,605.5	36.5	37.5	87.20	-504.0	-160.8	482.5	411.3	71.20	6.776				
9,800.0	9,744.1	9,720.0	9,675.1	36.8	37.6	84.40	-479.9	-155.0	493.3	422.6	70.78	6.970				
9,900.0	9,844.1	9,786.5	9,734.5	37.1	37.7	81.16	-450.8	-148.1	510.9	441.2	69.79	7.322				
10,000.0	9,944.1	9,845.2	9,783.8	37.4	37.8	77.85	-419.8	-140.6	536.6	468.4	68.16	7.872				
10,082.9	10,027.0	9,888.2	9,817.6	37.7	37.9	75.25	-394.1	-134.4	564.3	498.0	66.36	8.504				

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Rodney Robinson Fed Com #128H
Project:	Antelope Ridge	TVD Reference:	KB @ 3747.5usft
Reference Site:	Rodney Robinson	MD Reference:	KB @ 3747.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Rodney Robinson Fed Com #128H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference				Offset		Semi Major Axis			Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,100.0	10,044.1	9,900.0	9,826.6	37.8	37.9	70.88	-386.6	-132.6	570.7	504.7	66.07	8.639		
10,150.0	10,094.0	9,920.9	9,842.0	37.9	38.0	67.78	-372.9	-129.3	589.9	525.2	64.72	9.114		
10,200.0	10,143.3	9,950.0	9,862.6	38.0	38.0	64.43	-352.9	-124.6	609.5	545.9	63.66	9.575		
10,250.0	10,191.8	9,969.7	9,876.0	38.2	38.1	61.71	-338.8	-121.2	629.2	567.0	62.25	10.107		
10,300.0	10,239.0	10,000.0	9,895.5	38.3	38.2	58.82	-316.3	-115.8	648.8	587.5	61.27	10.589		
10,350.0	10,284.5	10,018.5	9,906.8	38.4	38.2	56.56	-302.1	-112.4	667.8	607.9	59.89	11.151		
10,400.0	10,328.2	10,050.0	9,925.0	38.4	38.3	54.20	-277.0	-106.3	686.4	627.3	59.05	11.624		
10,450.0	10,369.5	10,067.2	9,934.3	38.5	38.4	52.39	-263.0	-103.0	704.0	646.2	57.77	12.186		
10,500.0	10,408.2	10,100.0	9,950.8	38.5	38.5	50.56	-235.4	-96.4	720.7	663.6	57.13	12.616		
10,550.0	10,444.1	10,115.9	9,958.2	38.5	38.6	49.17	-221.8	-93.1	736.2	680.2	56.03	13.140		
10,600.0	10,476.7	10,140.2	9,968.8	38.6	38.7	47.89	-200.5	-88.0	750.6	695.3	55.35	13.562		
10,650.0	10,505.9	10,164.5	9,978.5	38.6	38.9	46.82	-178.9	-82.8	763.8	708.9	54.81	13.934		
10,700.0	10,531.5	10,188.7	9,987.2	38.5	39.0	45.95	-156.8	-77.5	775.5	721.1	54.43	14.248		
10,750.0	10,553.3	10,213.0	9,994.9	38.5	39.2	45.26	-134.5	-72.1	785.8	731.6	54.22	14.493		
10,800.0	10,571.0	10,237.2	10,001.6	38.5	39.4	44.74	-111.8	-66.7	794.7	740.5	54.19	14.665		
10,850.0	10,584.6	10,261.4	10,007.4	38.4	39.6	44.40	-88.9	-61.2	802.1	747.8	54.35	14.759		
10,900.0	10,594.0	10,285.6	10,012.1	38.4	39.8	44.22	-65.9	-55.6	808.0	753.3	54.69	14.773		
10,950.0	10,599.0	10,300.0	10,014.4	38.4	39.9	44.08	-52.1	-52.3	812.4	757.3	55.12	14.741		
10,982.9	10,600.0	10,325.7	10,017.7	38.3	40.1	44.28	-27.3	-46.4	814.4	758.7	55.68	14.627		
11,000.0	10,599.9	10,334.0	10,018.6	38.3	40.2	44.38	-19.3	-44.5	815.4	759.4	55.93	14.577		
11,100.0	10,599.3	10,386.4	10,021.0	38.2	40.7	44.86	31.6	-32.2	826.0	768.4	57.57	14.348		
11,168.3	10,598.3	10,460.8	10,021.0	38.2	41.6	45.52	104.2	-15.8	836.1	777.2	58.91	14.192		
11,200.0	10,597.8	10,500.1	10,021.0	38.3	42.1	45.95	142.7	-7.9	840.6	781.0	59.56	14.113		
11,300.0	10,596.0	10,625.6	10,021.0	38.6	43.8	47.14	266.2	13.8	852.8	791.0	61.75	13.811		
11,400.0	10,594.3	10,752.9	10,021.0	39.1	45.8	48.05	392.5	30.3	862.0	797.9	64.02	13.463		
11,500.0	10,592.5	10,881.6	10,021.0	39.6	48.0	48.70	520.6	41.3	867.9	801.6	66.35	13.081		
11,600.0	10,590.8	11,011.1	10,021.0	40.1	50.4	49.09	650.0	46.5	870.6	801.9	68.69	12.675		
11,700.0	10,589.1	11,129.1	10,021.0	40.7	52.6	49.24	768.1	46.4	870.1	799.1	70.94	12.265		
11,800.0	10,587.3	11,229.1	10,021.0	41.4	54.6	49.33	868.1	45.4	868.9	795.8	73.16	11.878		
11,900.0	10,585.6	11,329.1	10,021.0	42.1	56.8	49.42	968.1	44.4	867.8	792.3	75.50	11.495		
12,000.0	10,583.8	11,429.1	10,021.0	42.9	58.9	49.50	1,068.0	43.4	866.7	788.7	77.95	11.118		
12,100.0	10,582.1	11,529.1	10,021.0	43.7	61.2	49.59	1,168.0	42.4	865.6	785.0	80.52	10.750		
12,200.0	10,580.3	11,629.1	10,021.0	44.6	63.6	49.68	1,268.0	41.5	864.4	781.3	83.18	10.393		
12,300.0	10,578.6	11,729.0	10,021.0	45.5	66.0	49.77	1,368.0	40.5	863.3	777.4	85.93	10.047		
12,400.0	10,576.8	11,829.0	10,021.0	46.4	68.4	49.86	1,468.0	39.5	862.2	773.4	88.76	9.714		
12,500.0	10,575.1	11,929.0	10,021.0	47.4	70.9	49.95	1,567.9	38.5	861.1	769.4	91.67	9.394		
12,600.0	10,573.3	12,029.0	10,021.0	48.4	73.5	50.04	1,667.9	37.5	860.0	765.3	94.64	9.086		
12,700.0	10,571.6	12,129.0	10,021.0	49.4	76.1	50.13	1,767.9	36.5	858.8	761.2	97.69	8.792		
12,800.0	10,569.9	12,229.0	10,021.0	50.5	78.7	50.22	1,867.9	35.5	857.7	756.9	100.79	8.510		
12,900.0	10,568.1	12,328.9	10,021.0	51.6	81.4	50.31	1,967.9	34.5	856.6	752.7	103.95	8.241		
13,000.0	10,566.4	12,428.9	10,021.0	52.8	84.0	50.40	2,067.8	33.6	855.5	748.4	107.16	7.983		
13,100.0	10,564.6	12,528.9	10,021.0	53.9	86.8	50.49	2,167.8	32.6	854.4	744.0	110.42	7.738		
13,200.0	10,562.9	12,628.9	10,021.0	55.1	89.5	50.58	2,267.8	31.6	853.3	739.6	113.73	7.503		
13,300.0	10,561.1	12,728.9	10,021.0	56.3	92.2	50.67	2,367.8	30.6	852.2	735.1	117.08	7.279		
13,400.0	10,559.4	12,828.9	10,021.0	57.6	95.0	50.76	2,467.8	29.6	851.1	730.6	120.46	7.065		
13,500.0	10,557.6	12,928.9	10,021.0	58.8	97.8	50.85	2,567.7	28.6	850.0	726.1	123.89	6.861		
13,600.0	10,555.9	13,028.8	10,021.0	60.1	100.6	50.95	2,667.7	27.6	848.9	721.6	127.35	6.666		
13,700.0	10,554.1	13,128.8	10,021.0	61.4	103.5	51.04	2,767.7	26.6	847.8	717.0	130.84	6.480		
13,800.0	10,552.4	13,228.8	10,021.0	62.7	106.3	51.13	2,867.7	25.7	846.7	712.4	134.37	6.302		
13,900.0	10,550.6	13,328.8	10,021.0	64.0	109.2	51.22	2,967.7	24.7	845.7	707.7	137.92	6.131		
14,000.0	10,548.9	13,428.8	10,021.0	65.4	112.0	51.32	3,067.6	23.7	844.6	703.1	141.51	5.968		
14,100.0	10,547.2	13,528.8	10,021.0	66.7	114.9	51.41	3,167.6	22.7	843.5	698.4	145.12	5.812		

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Rodney Robinson Fed Com #128H
Project:	Antelope Ridge	TVD Reference:	KB @ 3747.5usft
Reference Site:	Rodney Robinson	MD Reference:	KB @ 3747.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Rodney Robinson Fed Com #128H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference				Offset			Semi Major Axis			Distance			Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Tooface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.0	10,545.4	13,628.8	10,021.0	68.1	117.8	51.50	3,267.6	21.7	842.4	693.7	148.75	5.663		
14,300.0	10,543.7	13,728.7	10,021.0	69.5	120.7	51.60	3,367.6	20.7	841.3	688.9	152.41	5.520		
14,400.0	10,541.9	13,828.7	10,021.0	70.9	123.6	51.69	3,467.6	19.7	840.3	684.2	156.10	5.383		
14,500.0	10,540.2	13,928.7	10,021.0	72.3	126.5	51.78	3,567.5	18.7	839.2	679.4	159.80	5.251		
14,600.0	10,538.4	14,028.7	10,021.0	73.7	129.4	51.88	3,667.5	17.8	838.1	674.6	163.53	5.125		
14,700.0	10,536.7	14,128.7	10,021.0	75.1	132.4	51.97	3,767.5	16.8	837.0	669.8	167.28	5.004		
14,800.0	10,534.9	14,228.7	10,021.0	76.5	135.3	52.07	3,867.5	15.8	836.0	664.9	171.05	4.887		
14,900.0	10,533.2	14,328.6	10,021.0	78.0	138.2	52.16	3,967.5	14.8	834.9	660.1	174.84	4.775		
15,000.0	10,531.4	14,428.6	10,021.0	79.4	141.2	52.26	4,067.4	13.8	833.8	655.2	178.64	4.668		
15,100.0	10,529.7	14,528.6	10,021.0	80.9	144.1	52.35	4,167.4	12.8	832.8	650.3	182.47	4.564		
15,200.0	10,527.9	14,628.6	10,021.0	82.4	147.1	52.45	4,267.4	11.8	831.7	645.4	186.31	4.464		
15,300.0	10,526.2	14,728.6	10,021.0	83.8	150.0	52.54	4,367.4	10.8	830.7	640.5	190.17	4.368		
15,400.0	10,524.5	14,828.6	10,021.0	85.3	153.0	52.64	4,467.4	9.9	829.6	635.6	194.05	4.275		
15,500.0	10,522.7	14,928.6	10,021.0	86.8	156.0	52.74	4,567.3	8.9	828.6	630.6	197.94	4.186		
15,600.0	10,521.0	15,028.5	10,021.0	88.3	159.0	52.83	4,667.3	7.9	827.5	625.7	201.85	4.100		
15,700.0	10,519.2	15,128.5	10,021.0	89.8	161.9	52.93	4,767.3	6.9	826.5	620.7	205.77	4.017		
15,800.0	10,517.5	15,228.5	10,021.0	91.3	164.9	53.03	4,867.3	5.9	825.4	615.7	209.71	3.936		
15,900.0	10,515.7	15,328.5	10,021.0	92.8	167.9	53.12	4,967.3	4.9	824.4	610.7	213.66	3.858		
16,000.0	10,514.0	15,428.5	10,021.0	94.3	170.9	53.22	5,067.2	3.9	823.3	605.7	217.63	3.783		
16,100.0	10,512.2	15,528.5	10,021.0	95.8	173.9	53.32	5,167.2	2.9	822.3	600.7	221.61	3.711		
16,200.0	10,510.5	15,628.4	10,021.0	97.3	176.9	53.42	5,267.2	2.0	821.3	595.7	225.60	3.640		
16,300.0	10,508.7	15,728.4	10,021.0	98.9	179.9	53.52	5,367.2	1.0	820.2	590.6	229.61	3.572		
16,400.0	10,507.0	15,828.4	10,021.0	100.4	182.9	53.61	5,467.2	0.0	819.2	585.6	233.63	3.506		
16,500.0	10,505.3	15,928.4	10,021.0	101.9	185.9	53.71	5,567.1	-1.0	818.2	580.5	237.66	3.443		
16,600.0	10,503.5	16,028.4	10,021.0	103.5	188.9	53.81	5,667.1	-2.0	817.2	575.5	241.71	3.381		
16,700.0	10,501.8	16,128.4	10,021.0	105.0	191.9	53.91	5,767.1	-3.0	816.1	570.4	245.77	3.321		
16,800.0	10,500.0	16,228.4	10,021.0	106.6	194.9	54.01	5,867.1	-4.0	815.1	565.3	249.84	3.263		
16,900.0	10,498.3	16,328.3	10,021.0	108.1	197.9	54.11	5,967.1	-5.0	814.1	560.2	253.93	3.206		
17,000.0	10,496.5	16,428.3	10,021.0	109.7	200.9	54.21	6,067.0	-5.9	813.1	555.1	258.02	3.151		
17,100.0	10,494.8	16,528.3	10,021.0	111.2	203.9	54.31	6,167.0	-6.9	812.1	550.0	262.13	3.098		
17,200.0	10,493.0	16,628.3	10,021.0	112.8	207.0	54.41	6,267.0	-7.9	811.1	544.8	266.25	3.046		
17,300.0	10,491.3	16,728.3	10,021.0	114.3	210.0	54.51	6,367.0	-8.9	810.1	539.7	270.38	2.996		
17,400.0	10,489.5	16,828.3	10,021.0	115.9	213.0	54.61	6,466.9	-9.9	809.1	534.5	274.52	2.947		
17,500.0	10,487.8	16,928.2	10,021.0	117.5	216.0	54.72	6,566.9	-10.9	808.1	529.4	278.68	2.900		
17,600.0	10,486.0	17,028.2	10,021.0	119.0	219.0	54.82	6,666.9	-11.9	807.1	524.2	282.84	2.853		
17,700.0	10,484.3	17,128.2	10,021.0	120.6	222.1	54.92	6,766.9	-12.9	806.1	519.0	287.02	2.808		
17,800.0	10,482.6	17,228.2	10,021.0	122.2	225.1	55.02	6,866.9	-13.8	805.1	513.9	291.21	2.765		
17,900.0	10,480.8	17,328.2	10,021.0	123.7	228.1	55.12	6,966.8	-14.8	804.1	508.7	295.40	2.722		
18,000.0	10,479.1	17,428.2	10,021.0	125.3	231.1	55.23	7,066.8	-15.8	803.1	503.5	299.61	2.680		
18,100.0	10,477.3	17,528.2	10,021.0	126.9	234.2	55.33	7,166.8	-16.8	802.1	498.3	303.83	2.640		
18,200.0	10,475.6	17,628.1	10,021.0	128.5	237.2	55.43	7,266.8	-17.8	801.1	493.1	308.06	2.601		
18,300.0	10,473.8	17,728.1	10,021.0	130.1	240.2	55.54	7,366.8	-18.8	800.1	487.8	312.30	2.562		
18,400.0	10,472.1	17,828.1	10,021.0	131.7	243.3	55.64	7,466.7	-19.8	799.2	482.6	316.55	2.525		
18,500.0	10,470.3	17,928.1	10,021.0	133.2	246.3	55.74	7,566.7	-20.8	798.2	477.4	320.81	2.488		
18,600.0	10,468.6	18,028.1	10,021.0	134.8	249.3	55.85	7,666.7	-21.7	797.2	472.1	325.08	2.452		
18,700.0	10,466.8	18,128.1	10,021.0	136.4	252.4	55.95	7,766.7	-22.7	796.2	466.9	329.37	2.417		
18,800.0	10,465.1	18,228.0	10,021.0	138.0	255.4	56.06	7,866.7	-23.7	795.3	461.6	333.66	2.383		
18,900.0	10,463.3	18,328.0	10,021.0	139.6	258.4	56.16	7,966.6	-24.7	794.3	456.3	337.96	2.350		
19,000.0	10,461.6	18,428.0	10,021.0	141.2	261.5	56.27	8,066.6	-25.7	793.3	451.1	342.27	2.318		
19,100.0	10,459.9	18,528.0	10,021.0	142.8	264.5	56.37	8,166.6	-26.7	792.4	445.8	346.59	2.286		
19,200.0	10,458.1	18,628.0	10,021.0	144.4	267.6	56.48	8,266.6	-27.7	791.4	440.5	350.92	2.255		
19,300.0	10,456.4	18,728.0	10,021.0	146.0	270.6	56.58	8,366.6	-28.7	790.5	435.2	355.26	2.225		

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Rodney Robinson Fed Com #128H
Project:	Antelope Ridge	TVD Reference:	KB @ 3747.5usft
Reference Site:	Rodney Robinson	MD Reference:	KB @ 3747.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Rodney Robinson Fed Com #128H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
19,400.0	10,454.6	18,828.0	10,021.0	147.6	273.6	56.69	8,466.5	-29.6	789.5	429.9	359.61	2.195		
19,500.0	10,452.9	18,927.9	10,021.0	149.2	276.7	56.80	8,566.5	-30.6	788.6	424.6	363.97	2.167		
19,600.0	10,451.1	19,027.9	10,021.0	150.8	279.7	56.90	8,666.5	-31.6	787.6	419.3	368.34	2.138		
19,700.0	10,449.4	19,127.9	10,021.0	152.4	282.8	57.01	8,766.5	-32.6	786.7	414.0	372.72	2.111		
19,800.0	10,447.6	19,227.9	10,021.0	154.0	285.8	57.12	8,866.5	-33.6	785.7	408.6	377.11	2.084		
19,900.0	10,445.9	19,327.9	10,021.0	155.6	288.9	57.22	8,966.4	-34.6	784.8	403.3	381.51	2.057		
20,000.0	10,444.1	19,427.9	10,021.0	157.2	291.9	57.33	9,066.4	-35.6	783.9	397.9	385.92	2.031		
20,100.0	10,442.4	19,527.9	10,021.0	158.8	295.0	57.44	9,166.4	-36.5	782.9	392.6	390.33	2.006		
20,200.0	10,440.7	19,627.8	10,021.0	160.4	298.0	57.55	9,266.4	-37.5	782.0	387.2	394.76	1.981		
20,300.0	10,438.9	19,727.8	10,021.0	162.0	301.1	57.66	9,366.4	-38.5	781.1	381.9	399.19	1.957		
20,400.0	10,437.2	19,827.8	10,021.0	163.6	304.1	57.77	9,466.3	-39.5	780.1	376.5	403.64	1.933		
20,500.0	10,435.4	19,927.8	10,021.0	165.3	307.2	57.87	9,566.3	-40.5	779.2	371.1	408.09	1.909		
20,600.0	10,433.7	20,027.8	10,021.0	166.9	310.2	57.98	9,666.3	-41.5	778.3	365.7	412.55	1.887		
20,700.0	10,431.9	20,127.8	10,021.0	168.5	313.3	58.09	9,766.3	-42.5	777.4	360.4	417.02	1.864		
20,800.0	10,430.2	20,227.7	10,021.0	170.1	316.3	58.20	9,866.3	-43.5	776.5	355.0	421.50	1.842		
20,867.4	10,429.0	20,295.2	10,021.0	171.2	318.4	58.28	9,933.7	-44.1	775.9	351.3	424.53	1.828 SF		

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Rodney Robinson Fed Com #128H
Project:	Antelope Ridge	TVD Reference:	KB @ 3747.5usft
Reference Site:	Rodney Robinson	MD Reference:	KB @ 3747.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Rodney Robinson Fed Com #128H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference				Offset		Semi Major Axis			Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	2.0	-2.0	0.0	0.0	89.56	1.3	170.0	170.0					
100.0	100.0	102.0	98.0	0.1	0.1	89.56	1.3	170.0	170.0	169.8	0.26	645.304		
200.0	200.0	202.0	198.0	0.5	0.5	89.56	1.3	170.0	170.0	169.0	0.98	173.418		
300.0	300.0	302.0	298.0	0.8	0.9	89.56	1.3	170.0	170.0	168.3	1.70	100.169		
400.0	400.0	402.0	398.0	1.2	1.2	89.56	1.3	170.0	170.0	167.6	2.41	70.423		
500.0	500.0	502.0	498.0	1.6	1.6	89.56	1.3	170.0	170.0	166.9	3.13	54.299		
600.0	600.0	602.0	598.0	1.9	1.9	89.56	1.3	170.0	170.0	166.2	3.85	44.182		
700.0	700.0	702.0	698.0	2.3	2.3	89.56	1.3	170.0	170.0	165.5	4.57	37.244		
800.0	800.0	802.0	798.0	2.6	2.6	89.56	1.3	170.0	170.0	164.7	5.28	32.189		
900.0	900.0	902.0	898.0	3.0	3.0	89.56	1.3	170.0	170.0	164.0	6.00	28.342		
1,000.0	1,000.0	1,002.0	998.0	3.4	3.4	89.56	1.3	170.0	170.0	163.3	6.72	25.316		
1,100.0	1,100.0	1,102.0	1,098.0	3.7	3.7	89.56	1.3	170.0	170.0	162.6	7.43	22.874		
1,200.0	1,200.0	1,202.0	1,198.0	4.1	4.1	89.56	1.3	170.0	170.0	161.9	8.15	20.862		
1,300.0	1,300.0	1,302.0	1,298.0	4.4	4.4	89.56	1.3	170.0	170.0	161.2	8.87	19.175		
1,400.0	1,400.0	1,402.0	1,398.0	4.8	4.8	89.56	1.3	170.0	170.0	160.4	9.58	17.741		
1,500.0	1,500.0	1,502.0	1,498.0	5.1	5.2	89.56	1.3	170.0	170.0	159.7	10.30	16.506 CC		
1,600.0	1,600.0	1,602.0	1,598.0	5.5	5.5	-141.18	1.3	170.0	170.7	159.7	11.00	15.514 ES		
1,700.0	1,700.0	1,702.0	1,698.0	5.8	5.9	-141.71	1.3	170.0	172.7	161.1	11.69	14.774		
1,800.0	1,799.9	1,802.1	1,797.9	6.2	6.2	-142.56	1.3	170.0	176.2	163.8	12.39	14.225		
1,900.0	1,899.7	1,902.3	1,897.7	6.5	6.6	-143.71	1.3	170.0	181.1	168.0	13.08	13.841		
2,000.0	1,999.4	1,997.4	1,997.4	6.8	6.9	-145.09	1.3	170.0	187.5	173.7	13.76	13.620		
2,100.0	2,098.9	2,098.2	2,098.2	7.2	7.3	-146.45	0.5	169.8	195.1	180.6	14.45	13.499		
2,200.0	2,198.3	2,199.2	2,199.2	7.5	7.6	-147.51	-2.0	169.0	203.5	188.4	15.13	13.456		
2,300.0	2,297.4	2,300.3	2,300.2	7.9	7.9	-148.30	-6.2	167.7	212.8	197.0	15.80	13.463		
2,400.0	2,396.4	2,401.5	2,401.2	8.3	8.3	-148.77	-12.1	165.8	222.0	205.6	16.49	13.467		
2,500.0	2,495.5	2,502.9	2,502.3	8.7	8.6	-148.80	-19.7	163.4	230.5	213.4	17.18	13.415		
2,600.0	2,594.5	2,604.4	2,603.3	9.0	9.0	-148.44	-29.1	160.4	238.3	220.4	17.88	13.325		
2,700.0	2,693.5	2,706.0	2,704.2	9.4	9.3	-147.72	-40.1	157.0	245.3	226.7	18.59	13.193		
2,800.0	2,792.5	2,807.5	2,804.8	9.8	9.7	-146.67	-52.9	152.9	251.6	232.3	19.31	13.029		
2,900.0	2,891.6	2,907.0	2,903.4	10.2	10.0	-145.53	-66.1	148.8	257.7	237.6	20.04	12.861		
3,000.0	2,990.6	3,006.7	3,002.1	10.6	10.4	-144.45	-79.3	144.6	263.9	243.1	20.77	12.704		
3,100.0	3,089.6	3,106.4	3,100.8	11.0	10.7	-143.41	-92.5	140.4	270.1	248.6	21.51	12.559		
3,200.0	3,188.6	3,206.1	3,199.5	11.4	11.1	-142.43	-105.8	136.3	276.5	254.3	22.26	12.423		
3,300.0	3,287.7	3,305.8	3,298.3	11.8	11.5	-141.48	-119.0	132.1	283.0	259.9	23.01	12.296		
3,400.0	3,386.7	3,405.5	3,397.0	12.2	11.9	-140.58	-132.2	127.9	289.5	265.7	23.77	12.177		
3,500.0	3,485.7	3,505.1	3,495.7	12.6	12.3	-139.72	-145.5	123.8	296.1	271.5	24.54	12.066		
3,600.0	3,584.8	3,604.8	3,594.4	13.0	12.6	-138.90	-158.7	119.6	302.7	277.4	25.31	11.962		
3,700.0	3,683.8	3,704.5	3,693.1	13.4	13.0	-138.11	-171.9	115.4	309.4	283.3	26.08	11.864		
3,800.0	3,782.8	3,804.2	3,791.8	13.8	13.4	-137.36	-185.2	111.2	316.2	289.3	26.86	11.772		
3,900.0	3,881.8	3,903.9	3,890.6	14.2	13.8	-136.64	-198.4	107.1	323.0	295.4	27.64	11.685		
4,000.0	3,980.9	4,003.6	3,989.3	14.6	14.2	-135.95	-211.6	102.9	329.9	301.4	28.43	11.604		
4,100.0	4,079.9	4,103.3	4,088.0	15.0	14.6	-135.28	-224.9	98.7	336.8	307.6	29.22	11.527		
4,200.0	4,178.9	4,203.0	4,186.7	15.4	15.0	-134.65	-238.1	94.6	343.7	313.7	30.01	11.455		
4,300.0	4,277.9	4,302.6	4,285.4	15.8	15.4	-134.03	-251.3	90.4	350.7	319.9	30.80	11.386		
4,400.0	4,377.0	4,402.3	4,384.1	16.3	15.8	-133.45	-264.6	86.2	357.8	326.2	31.60	11.321		
4,500.0	4,476.0	4,502.0	4,482.9	16.7	16.2	-132.88	-277.8	82.1	364.8	332.4	32.40	11.260		
4,600.0	4,575.0	4,601.7	4,581.6	17.1	16.6	-132.34	-291.0	77.9	371.9	338.7	33.20	11.202		
4,700.0	4,674.0	4,701.4	4,680.3	17.5	17.0	-131.81	-304.3	73.7	379.1	345.1	34.01	11.147		
4,800.0	4,773.1	4,801.1	4,779.0	17.9	17.4	-131.31	-317.5	69.5	386.2	351.4	34.81	11.095		
4,900.0	4,872.1	4,900.8	4,877.7	18.3	17.8	-130.82	-330.7	65.4	393.4	357.8	35.62	11.045		
5,000.0	4,971.1	5,000.4	4,976.4	18.7	18.2	-130.36	-344.0	61.2	400.7	364.2	36.43	10.998		
5,100.0	5,070.2	5,100.1	5,075.1	19.2	18.6	-129.90	-357.2	57.0	407.9	370.7	37.24	10.953		

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Rodney Robinson Fed Com #128H
Project:	Antelope Ridge	TVD Reference:	KB @ 3747.5usft
Reference Site:	Rodney Robinson	MD Reference:	KB @ 3747.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Rodney Robinson Fed Com #128H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference				Offset		Semi Major Axis			Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.0	5,169.2	5,200.2	5,173.9	19.6	19.0	-129.47	-370.4	52.9	415.2	377.1	38.06	10.909		
5,300.0	5,268.2	5,300.5	5,272.6	20.0	19.4	-129.05	-383.7	48.7	422.5	383.6	38.87	10.868		
5,400.0	5,367.2	5,400.8	5,371.3	20.4	19.8	-128.64	-396.9	44.5	429.8	390.1	39.69	10.828		
5,500.0	5,466.3	5,501.1	5,470.0	20.8	20.2	-128.25	-410.1	40.4	437.1	396.6	40.51	10.790		
5,600.0	5,565.3	5,601.4	5,568.7	21.2	20.6	-127.87	-423.4	36.2	444.5	403.1	41.33	10.754		
5,700.0	5,664.3	5,701.8	5,667.4	21.6	21.1	-127.50	-436.6	32.0	451.9	409.7	42.15	10.720		
5,800.0	5,763.3	5,802.1	5,766.2	22.1	21.5	-127.15	-449.8	27.8	459.2	416.3	42.97	10.687		
5,900.0	5,862.4	5,902.4	5,864.9	22.5	21.9	-126.80	-463.0	23.7	466.7	422.9	43.80	10.655		
6,000.0	5,961.4	6,002.7	5,963.6	22.9	22.3	-126.47	-476.3	19.5	474.1	429.5	44.62	10.625		
6,100.0	6,060.4	6,097.0	6,062.3	23.3	22.7	-126.14	-489.5	15.3	481.5	436.1	45.42	10.601		
6,200.0	6,159.4	6,196.0	6,160.5	23.7	23.1	-125.97	-501.5	11.5	489.1	442.8	46.23	10.579		
6,300.0	6,258.5	6,295.0	6,259.0	24.2	23.5	-126.10	-511.1	8.5	496.7	449.7	47.01	10.565		
6,400.0	6,357.5	6,393.8	6,357.6	24.6	23.8	-126.52	-518.3	6.3	504.6	456.8	47.77	10.562		
6,500.0	6,456.5	6,492.4	6,456.0	25.0	24.2	-127.20	-523.0	4.8	512.6	464.1	48.50	10.568		
6,600.0	6,555.6	6,590.6	6,554.1	25.4	24.5	-128.14	-525.2	4.1	520.9	471.7	49.21	10.587		
6,700.0	6,654.6	6,689.0	6,652.6	25.8	24.9	-129.29	-525.5	4.0	529.7	479.8	49.88	10.620		
6,800.0	6,753.6	6,788.1	6,751.6	26.3	25.2	-130.43	-525.5	4.0	538.7	488.1	50.54	10.658		
6,900.0	6,852.6	6,887.1	6,850.6	26.7	25.5	-131.53	-525.5	4.0	547.8	496.6	51.20	10.699		
7,000.0	6,951.7	6,986.1	6,949.7	27.1	25.8	-132.59	-525.5	4.0	557.2	505.3	51.86	10.743		
7,100.0	7,050.7	7,085.1	7,048.7	27.5	26.1	-133.63	-525.5	4.0	566.8	514.2	52.53	10.790		
7,200.0	7,149.7	7,184.2	7,147.7	27.9	26.4	-134.62	-525.5	4.0	576.5	523.3	53.19	10.838		
7,300.0	7,248.7	7,283.2	7,246.7	28.4	26.7	-135.59	-525.5	4.0	586.4	532.6	53.85	10.889		
7,400.0	7,347.8	7,382.2	7,345.8	28.8	27.1	-136.52	-525.5	4.0	596.5	542.0	54.52	10.941		
7,500.0	7,446.8	7,481.2	7,444.8	29.2	27.4	-137.42	-525.5	4.0	606.7	551.5	55.18	10.994		
7,598.2	7,544.1	7,578.5	7,542.1	29.6	27.7	-138.27	-525.5	4.0	616.9	561.0	55.83	11.048		
7,600.0	7,545.8	7,580.3	7,543.8	29.6	27.7	-138.29	-525.5	4.0	617.1	561.2	55.85	11.049		
7,700.0	7,645.0	7,679.5	7,643.0	30.0	28.0	-139.15	-525.5	4.0	626.5	570.0	56.51	11.087		
7,800.0	7,744.5	7,779.0	7,742.5	30.4	28.4	-139.81	-525.5	4.0	634.1	577.0	57.18	11.090		
7,900.0	7,844.3	7,878.7	7,842.3	30.8	28.7	-140.29	-525.5	4.0	639.8	581.9	57.85	11.060		
8,000.0	7,944.1	7,978.6	7,942.1	31.2	29.0	-140.59	-525.5	4.0	643.5	584.9	58.51	10.997		
8,100.0	8,044.1	8,078.6	8,042.1	31.5	29.3	-140.73	-525.5	4.0	645.1	585.9	59.18	10.901		
8,131.5	8,075.7	8,110.1	8,073.7	31.6	29.4	89.82	-525.5	4.0	645.2	585.8	59.39	10.864		
8,200.0	8,144.1	8,178.6	8,142.1	31.8	29.7	89.82	-525.5	4.0	645.2	585.4	59.83	10.784		
8,300.0	8,244.1	8,278.6	8,242.1	32.1	30.0	89.82	-525.5	4.0	645.2	584.7	60.48	10.669		
8,400.0	8,344.1	8,378.6	8,342.1	32.4	30.3	89.82	-525.5	4.0	645.2	584.1	61.12	10.556		
8,500.0	8,444.1	8,478.6	8,442.1	32.7	30.6	89.82	-525.5	4.0	645.2	583.4	61.77	10.445		
8,600.0	8,544.1	8,578.6	8,542.1	33.0	31.0	89.82	-525.5	4.0	645.2	582.8	62.42	10.336		
8,700.0	8,644.1	8,678.6	8,642.1	33.3	31.3	89.82	-525.5	4.0	645.2	582.1	63.08	10.229		
8,800.0	8,744.1	8,778.6	8,742.1	33.6	31.6	89.82	-525.5	4.0	645.2	581.5	63.73	10.124		
8,900.0	8,844.1	8,878.6	8,842.1	34.0	32.0	89.82	-525.5	4.0	645.2	580.8	64.39	10.021		
9,000.0	8,944.1	8,978.6	8,942.1	34.3	32.3	89.82	-525.5	4.0	645.2	580.2	65.04	9.920		
9,100.0	9,044.1	9,078.6	9,042.1	34.6	32.6	89.82	-525.5	4.0	645.2	579.5	65.70	9.820		
9,200.0	9,144.1	9,178.6	9,142.1	34.9	33.0	89.82	-525.5	4.0	645.2	578.8	66.36	9.723		
9,300.0	9,244.1	9,278.6	9,242.1	35.2	33.3	89.82	-525.5	4.0	645.2	578.2	67.02	9.627		
9,400.0	9,344.1	9,378.6	9,342.1	35.5	33.6	89.82	-525.5	4.0	645.2	577.5	67.68	9.533		
9,500.0	9,444.1	9,478.6	9,442.1	35.8	34.0	89.82	-525.5	4.0	645.2	576.9	68.35	9.440		
9,600.0	9,544.1	9,578.6	9,542.1	36.2	34.3	89.82	-525.5	4.0	645.2	576.2	69.01	9.350		
9,700.0	9,644.1	9,678.6	9,642.1	36.5	34.6	89.82	-525.5	4.0	645.2	575.5	69.67	9.260		
9,800.0	9,744.1	9,778.6	9,742.1	36.8	35.0	89.82	-525.5	4.0	645.2	574.9	70.34	9.173		
9,900.0	9,844.1	9,878.6	9,842.1	37.1	35.3	89.82	-525.5	4.0	645.2	574.2	71.01	9.087		
10,000.0	9,944.1	9,978.6	9,942.1	37.4	35.7	89.82	-525.5	4.0	645.2	573.5	71.67	9.002		
10,082.9	10,027.0	10,061.5	10,025.0	37.7	35.9	89.82	-525.5	4.0	645.2	573.0	72.23	8.933		

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Rodney Robinson Fed Com #128H
Project:	Antelope Ridge	TVD Reference:	KB @ 3747.5usft
Reference Site:	Rodney Robinson	MD Reference:	KB @ 3747.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Rodney Robinson Fed Com #128H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												Offset Well Error:	0.0 usft
Reference				Offset		Semi Major Axis			Distance				Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
10,100.0	10,044.1	10,078.6	10,042.1	37.8	36.0	86.84	-525.5	4.0	645.2	572.8	72.34	8.919	
10,150.0	10,094.0	10,128.4	10,092.0	37.9	36.2	87.19	-525.5	4.0	645.0	572.3	72.68	8.874	
10,200.0	10,143.3	10,177.7	10,141.3	38.0	36.3	87.92	-525.5	4.0	644.7	571.6	73.02	8.828	
10,250.0	10,191.8	10,225.8	10,189.3	38.2	36.5	88.99	-525.4	4.0	644.3	571.0	73.36	8.783	
10,279.8	10,220.1	10,253.3	10,216.9	38.2	36.6	89.67	-524.3	4.1	644.3	570.7	73.55	8.760	
10,300.0	10,239.0	10,272.2	10,235.6	38.3	36.6	90.13	-522.8	4.2	644.3	570.6	73.67	8.745	
10,350.0	10,284.5	10,319.6	10,282.6	38.4	36.8	91.28	-516.2	4.7	644.6	570.7	73.97	8.715	
10,400.0	10,328.2	10,368.2	10,330.0	38.4	36.9	92.43	-505.6	5.5	645.4	571.2	74.25	8.692	
10,450.0	10,369.5	10,418.0	10,377.4	38.5	37.0	93.57	-490.5	6.7	646.6	572.1	74.50	8.679	
10,500.0	10,408.2	10,469.1	10,424.6	38.5	37.2	94.69	-470.8	8.2	648.1	573.4	74.72	8.674	
10,550.0	10,444.1	10,521.7	10,471.0	38.5	37.3	95.80	-446.3	10.1	650.1	575.1	74.90	8.679	
10,600.0	10,476.7	10,575.8	10,516.2	38.6	37.3	96.87	-416.8	12.4	652.3	577.3	75.03	8.694	
10,650.0	10,505.9	10,631.5	10,559.7	38.6	37.4	97.90	-382.0	15.0	654.9	579.8	75.11	8.719	
10,700.0	10,531.5	10,688.9	10,600.7	38.5	37.5	98.88	-342.0	18.1	657.7	582.6	75.13	8.754	
10,750.0	10,553.3	10,748.1	10,638.5	38.5	37.6	99.80	-296.7	21.6	660.7	585.6	75.10	8.797	
10,800.0	10,571.0	10,809.0	10,672.4	38.5	37.6	100.65	-246.3	25.5	663.7	588.7	75.03	8.846	
10,850.0	10,584.6	10,871.6	10,701.4	38.4	37.7	101.42	-191.0	29.7	666.8	591.9	74.94	8.899	
10,900.0	10,594.0	10,935.9	10,724.8	38.4	37.8	102.08	-131.2	34.3	669.8	595.0	74.84	8.950	
10,950.0	10,599.0	11,001.8	10,741.5	38.4	37.8	102.63	-67.7	39.2	672.7	597.9	74.78	8.996	
10,982.9	10,600.0	11,045.9	10,748.6	38.3	37.9	102.93	-24.3	42.6	674.5	599.7	74.76	9.021	
11,000.0	10,599.9	11,069.1	10,751.0	38.3	37.9	103.11	-1.3	44.3	675.3	600.5	74.77	9.031	
11,100.0	10,599.3	11,216.3	10,753.0	38.2	38.1	103.25	145.5	53.0	678.7	603.5	75.15	9.031	
11,168.3	10,598.3	11,307.5	10,753.0	38.2	38.4	103.34	236.7	53.2	678.9	603.3	75.55	8.986	
11,200.0	10,597.8	11,339.1	10,753.0	38.3	38.5	103.38	268.3	52.9	679.0	603.3	75.73	8.966	
11,300.0	10,596.0	11,439.1	10,753.0	38.6	38.8	103.53	368.3	51.9	679.4	603.0	76.37	8.896	
11,400.0	10,594.3	11,539.1	10,753.0	39.1	39.2	103.67	468.3	50.9	679.8	602.7	77.15	8.812	
11,500.0	10,592.5	11,639.1	10,753.0	39.6	39.6	103.81	568.3	49.9	680.2	602.2	78.05	8.715	
11,600.0	10,590.8	11,739.1	10,753.0	40.1	40.2	103.95	668.2	48.9	680.6	601.6	79.07	8.608	
11,700.0	10,589.1	11,839.1	10,753.0	40.7	40.8	104.10	768.2	47.9	681.0	600.8	80.20	8.491	
11,800.0	10,587.3	11,939.0	10,753.0	41.4	41.4	104.24	868.2	46.9	681.5	600.0	81.45	8.366	
11,900.0	10,585.6	12,039.0	10,753.0	42.1	42.1	104.38	968.2	45.9	681.9	599.1	82.80	8.235	
12,000.0	10,583.8	12,139.0	10,753.0	42.9	42.9	104.52	1,068.2	44.9	682.3	598.1	84.26	8.098	
12,100.0	10,582.1	12,239.0	10,753.0	43.7	43.7	104.67	1,168.1	43.9	682.7	596.9	85.81	7.957	
12,200.0	10,580.3	12,339.0	10,753.0	44.6	44.5	104.81	1,268.1	42.9	683.2	595.7	87.44	7.813	
12,300.0	10,578.6	12,439.0	10,753.0	45.5	45.4	104.95	1,368.1	41.9	683.6	594.5	89.16	7.667	
12,400.0	10,576.8	12,538.9	10,753.0	46.4	46.4	105.09	1,468.1	40.9	684.1	593.1	90.96	7.521	
12,500.0	10,575.1	12,638.9	10,753.0	47.4	47.3	105.23	1,568.1	39.9	684.5	591.7	92.83	7.374	
12,600.0	10,573.3	12,738.9	10,753.0	48.4	48.4	105.37	1,668.0	38.9	685.0	590.2	94.78	7.227	
12,700.0	10,571.6	12,838.9	10,753.0	49.4	49.4	105.51	1,768.0	37.9	685.4	588.7	96.78	7.082	
12,800.0	10,569.9	12,938.9	10,753.0	50.5	50.5	105.66	1,868.0	36.9	685.9	587.0	98.85	6.939	
12,900.0	10,568.1	13,038.9	10,753.0	51.6	51.6	105.80	1,968.0	35.9	686.4	585.4	100.97	6.798	
13,000.0	10,566.4	13,138.9	10,753.0	52.8	52.7	105.94	2,068.0	34.8	686.8	583.7	103.15	6.659	
13,100.0	10,564.6	13,238.8	10,753.0	53.9	53.9	106.08	2,167.9	33.8	687.3	581.9	105.37	6.523	
13,200.0	10,562.9	13,338.8	10,753.0	55.1	55.1	106.22	2,267.9	32.8	687.8	580.2	107.64	6.390	
13,300.0	10,561.1	13,438.8	10,753.0	56.3	56.3	106.36	2,367.9	31.8	688.3	578.3	109.95	6.260	
13,400.0	10,559.4	13,538.8	10,753.0	57.6	57.6	106.50	2,467.9	30.8	688.8	576.5	112.30	6.133	
13,500.0	10,557.6	13,638.8	10,753.0	58.8	58.8	106.63	2,567.9	29.8	689.3	574.6	114.69	6.010	
13,600.0	10,555.9	13,738.8	10,753.0	60.1	60.1	106.77	2,667.8	28.8	689.7	572.6	117.11	5.890	
13,700.0	10,554.1	13,838.8	10,753.0	61.4	61.4	106.91	2,767.8	27.8	690.2	570.7	119.56	5.773	
13,800.0	10,552.4	13,938.7	10,753.0	62.7	62.7	107.05	2,867.8	26.8	690.7	568.7	122.04	5.660	
13,900.0	10,550.6	14,038.7	10,753.0	64.0	64.0	107.19	2,967.8	25.8	691.3	566.7	124.55	5.550	
14,000.0	10,548.9	14,138.7	10,753.0	65.4	65.4	107.33	3,067.8	24.8	691.8	564.7	127.08	5.443	

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Rodney Robinson Fed Com #128H
Project:	Antelope Ridge	TVD Reference:	KB @ 3747.5usft
Reference Site:	Rodney Robinson	MD Reference:	KB @ 3747.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Rodney Robinson Fed Com #128H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference				Offset			Semi Major Axis			Distance			Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Tooface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,100.0	10,547.2	14,238.7	10,753.0	66.7	66.7	107.47	3,167.7	23.8	692.3	562.6	129.64	5.340		
14,200.0	10,545.4	14,338.7	10,753.0	68.1	68.1	107.60	3,267.7	22.8	692.8	560.6	132.22	5.240		
14,300.0	10,543.7	14,438.7	10,753.0	69.5	69.5	107.74	3,367.7	21.8	693.3	558.5	134.82	5.143		
14,400.0	10,541.9	14,538.6	10,753.0	70.9	70.9	107.88	3,467.7	20.8	693.9	556.4	137.44	5.048		
14,500.0	10,540.2	14,638.6	10,753.0	72.3	72.3	108.02	3,567.7	19.8	694.4	554.3	140.07	4.957		
14,600.0	10,538.4	14,738.6	10,753.0	73.7	73.7	108.15	3,667.6	18.8	694.9	552.2	142.73	4.869		
14,700.0	10,536.7	14,838.6	10,753.0	75.1	75.1	108.29	3,767.6	17.8	695.5	550.1	145.39	4.783		
14,800.0	10,534.9	14,938.6	10,753.0	76.5	76.6	108.43	3,867.6	16.8	696.0	547.9	148.07	4.700		
14,900.0	10,533.2	15,038.6	10,753.0	78.0	78.0	108.56	3,967.6	15.8	696.6	545.8	150.77	4.620		
15,000.0	10,531.4	15,138.6	10,753.0	79.4	79.5	108.70	4,067.6	14.8	697.1	543.6	153.47	4.542		
15,100.0	10,529.7	15,238.5	10,753.0	80.9	80.9	108.84	4,167.5	13.8	697.7	541.5	156.19	4.467		
15,200.0	10,527.9	15,338.5	10,753.0	82.4	82.4	108.97	4,267.5	12.8	698.2	539.3	158.92	4.394		
15,300.0	10,526.2	15,438.5	10,753.0	83.8	83.9	109.11	4,367.5	11.7	698.8	537.1	161.66	4.323		
15,400.0	10,524.5	15,538.5	10,753.0	85.3	85.3	109.24	4,467.5	10.7	699.3	534.9	164.40	4.254		
15,500.0	10,522.7	15,638.5	10,753.0	86.8	86.8	109.38	4,567.4	9.7	699.9	532.8	167.15	4.187		
15,600.0	10,521.0	15,738.5	10,753.0	88.3	88.3	109.51	4,667.4	8.7	700.5	530.6	169.91	4.123		
15,700.0	10,519.2	15,838.4	10,753.0	89.8	89.8	109.65	4,767.4	7.7	701.1	528.4	172.68	4.060		
15,800.0	10,517.5	15,938.4	10,753.0	91.3	91.3	109.78	4,867.4	6.7	701.7	526.2	175.46	3.999		
15,900.0	10,515.7	16,038.4	10,753.0	92.8	92.8	109.92	4,967.4	5.7	702.2	524.0	178.23	3.940		
16,000.0	10,514.0	16,138.4	10,753.0	94.3	94.3	110.05	5,067.3	4.7	702.8	521.8	181.02	3.883		
16,100.0	10,512.2	16,238.4	10,753.0	95.8	95.9	110.18	5,167.3	3.7	703.4	519.6	183.81	3.827		
16,200.0	10,510.5	16,338.4	10,753.0	97.3	97.4	110.32	5,267.3	2.7	704.0	517.4	186.60	3.773		
16,300.0	10,508.7	16,438.4	10,753.0	98.9	98.9	110.45	5,367.3	1.7	704.6	515.2	189.40	3.720		
16,400.0	10,507.0	16,538.3	10,753.0	100.4	100.4	110.58	5,467.3	0.7	705.2	513.0	192.20	3.669		
16,500.0	10,505.3	16,638.3	10,753.0	101.9	102.0	110.72	5,567.2	-0.3	705.8	510.8	195.00	3.620		
16,600.0	10,503.5	16,738.3	10,753.0	103.5	103.5	110.85	5,667.2	-1.3	706.5	508.6	197.81	3.571		
16,700.0	10,501.8	16,838.3	10,753.0	105.0	105.1	110.98	5,767.2	-2.3	707.1	506.5	200.61	3.525		
16,800.0	10,500.0	16,938.3	10,753.0	106.6	106.6	111.11	5,867.2	-3.3	707.7	504.3	203.42	3.479		
16,900.0	10,498.3	17,038.3	10,753.0	108.1	108.2	111.25	5,967.2	-4.3	708.3	502.1	206.24	3.434		
17,000.0	10,496.5	17,138.2	10,753.0	109.7	109.7	111.38	6,067.1	-5.3	708.9	499.9	209.05	3.391		
17,100.0	10,494.8	17,238.2	10,753.0	111.2	111.3	111.51	6,167.1	-6.3	709.6	497.7	211.86	3.349		
17,200.0	10,493.0	17,338.2	10,753.0	112.8	112.8	111.64	6,267.1	-7.3	710.2	495.5	214.68	3.308		
17,300.0	10,491.3	17,438.2	10,753.0	114.3	114.4	111.77	6,367.1	-8.3	710.9	493.4	217.49	3.268		
17,400.0	10,489.5	17,538.2	10,753.0	115.9	116.0	111.90	6,467.1	-9.3	711.5	491.2	220.31	3.230		
17,500.0	10,487.8	17,638.2	10,753.0	117.5	117.5	112.03	6,567.0	-10.3	712.1	489.0	223.13	3.192		
17,600.0	10,486.0	17,738.2	10,753.0	119.0	119.1	112.16	6,667.0	-11.3	712.8	486.9	225.94	3.155		
17,700.0	10,484.3	17,838.1	10,753.0	120.6	120.7	112.29	6,767.0	-12.4	713.4	484.7	228.76	3.119		
17,800.0	10,482.6	17,938.1	10,753.0	122.2	122.2	112.42	6,867.0	-13.4	714.1	482.5	231.57	3.084		
17,900.0	10,480.8	18,038.1	10,753.0	123.7	123.8	112.55	6,967.0	-14.4	714.8	480.4	234.39	3.050		
18,000.0	10,479.1	18,138.1	10,753.0	125.3	125.4	112.68	7,066.9	-15.4	715.4	478.2	237.20	3.016		
18,100.0	10,477.3	18,238.1	10,753.0	126.9	127.0	112.81	7,166.9	-16.4	716.1	476.1	240.01	2.984		
18,200.0	10,475.6	18,338.1	10,753.0	128.5	128.6	112.94	7,266.9	-17.4	716.8	474.0	242.83	2.952		
18,300.0	10,473.8	18,438.1	10,753.0	130.1	130.1	113.07	7,366.9	-18.4	717.5	471.8	245.64	2.921		
18,400.0	10,472.1	18,538.0	10,753.0	131.7	131.7	113.20	7,466.9	-19.4	718.1	469.7	248.44	2.891		
18,500.0	10,470.3	18,638.0	10,753.0	133.2	133.3	113.33	7,566.8	-20.4	718.8	467.6	251.25	2.861		
18,600.0	10,468.6	18,738.0	10,753.0	134.8	134.9	113.45	7,666.8	-21.4	719.5	465.4	254.06	2.832		
18,700.0	10,466.8	18,838.0	10,753.0	136.4	136.5	113.58	7,766.8	-22.4	720.2	463.3	256.86	2.804		
18,800.0	10,465.1	18,938.0	10,753.0	138.0	138.1	113.71	7,866.8	-23.4	720.9	461.2	259.66	2.776		
18,900.0	10,463.3	19,038.0	10,753.0	139.6	139.7	113.84	7,966.8	-24.4	721.6	459.1	262.46	2.749		
19,000.0	10,461.6	19,137.9	10,753.0	141.2	141.3	113.96	8,066.7	-25.4	722.3	457.0	265.26	2.723		
19,100.0	10,459.9	19,237.9	10,753.0	142.8	142.9	114.09	8,166.7	-26.4	723.0	454.9	268.05	2.697		
19,200.0	10,458.1	19,337.9	10,753.0	144.4	144.5	114.22	8,266.7	-27.4	723.7	452.9	270.85	2.672		

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Rodney Robinson Fed Com #128H
Project:	Antelope Ridge	TVD Reference:	KB @ 3747.5usft
Reference Site:	Rodney Robinson	MD Reference:	KB @ 3747.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Rodney Robinson Fed Com #128H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft		
Survey Program: 0-MWD													Rodney Robinson - Rodney Robinson Fed Com #124H - Wellbore #1 - BLM Plan #1		Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
19,300.0	10,456.4	19,437.9	10,753.0	146.0	146.1	114.34	8,366.7	-28.4	724.4	450.8	273.64	2.647				
19,400.0	10,454.6	19,537.9	10,753.0	147.6	147.7	114.47	8,466.7	-29.4	725.1	448.7	276.42	2.623				
19,500.0	10,452.9	19,637.9	10,753.0	149.2	149.3	114.59	8,566.6	-30.4	725.8	446.6	279.21	2.600				
19,600.0	10,451.1	19,737.9	10,753.0	150.8	150.9	114.72	8,666.6	-31.4	726.6	444.6	281.99	2.577				
19,700.0	10,449.4	19,837.8	10,753.0	152.4	152.5	114.84	8,766.6	-32.4	727.3	442.5	284.77	2.554				
19,800.0	10,447.6	19,937.8	10,753.0	154.0	154.1	114.97	8,866.6	-33.4	728.0	440.5	287.55	2.532				
19,900.0	10,445.9	20,037.8	10,753.0	155.6	155.7	115.09	8,966.6	-34.4	728.8	438.4	290.32	2.510				
20,000.0	10,444.1	20,137.8	10,753.0	157.2	157.3	115.22	9,066.5	-35.4	729.5	436.4	293.09	2.489				
20,100.0	10,442.4	20,237.8	10,753.0	158.8	158.9	115.34	9,166.5	-36.5	730.2	434.4	295.86	2.468				
20,200.0	10,440.7	20,337.8	10,753.0	160.4	160.5	115.47	9,266.5	-37.5	731.0	432.4	298.62	2.448				
20,300.0	10,438.9	20,437.7	10,753.0	162.0	162.1	115.59	9,366.5	-38.5	731.7	430.3	301.38	2.428				
20,400.0	10,437.2	20,537.7	10,753.0	163.6	163.7	115.71	9,466.5	-39.5	732.5	428.3	304.14	2.408				
20,500.0	10,435.4	20,637.7	10,753.0	165.3	165.3	115.84	9,566.4	-40.5	733.2	426.3	306.89	2.389				
20,600.0	10,433.7	20,737.7	10,753.0	166.9	166.9	115.96	9,666.4	-41.5	734.0	424.3	309.64	2.370				
20,700.0	10,431.9	20,837.7	10,753.0	168.5	168.6	116.08	9,766.4	-42.5	734.7	422.3	312.39	2.352				
20,800.0	10,430.2	20,937.7	10,753.0	170.1	170.2	116.20	9,866.4	-43.5	735.5	420.4	315.13	2.334				
20,867.4	10,429.0	21,005.1	10,753.0	171.2	171.3	116.29	9,933.8	-44.2	736.0	419.0	316.98	2.322 SF				

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Rodney Robinson Fed Com #128H
Project:	Antelope Ridge	TVD Reference:	KB @ 3747.5usft
Reference Site:	Rodney Robinson	MD Reference:	KB @ 3747.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Rodney Robinson Fed Com #128H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 17-MWD													Offset Well Error:	0.0 usft
Reference				Offset		Semi Major Axis			Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	98.10	-28.5	200.2	202.2					
100.0	100.0	98.0	98.0	0.1	0.2	97.88	-27.8	200.6	202.5	202.2	0.26	775.983		
200.0	200.0	201.1	201.0	0.5	0.5	97.28	-25.6	200.7	202.4	201.4	0.97	209.589		
300.0	300.0	302.0	302.0	0.8	0.8	96.80	-23.8	199.6	201.0	199.3	1.68	119.559		
400.0	400.0	403.7	403.7	1.2	1.2	96.87	-23.8	197.6	199.1	196.7	2.40	83.043		
500.0	500.0	504.5	504.4	1.6	1.5	97.13	-24.3	194.7	196.3	193.2	3.11	63.152		
600.0	600.0	601.8	601.6	1.9	1.9	97.87	-26.6	192.4	194.3	190.5	3.80	51.125		
685.0	685.0	684.3	684.0	2.2	2.2	98.86	-29.8	191.4	193.7	189.3	4.39	44.117		
700.0	700.0	698.7	698.5	2.3	2.2	99.04	-30.4	191.3	193.7	189.2	4.49	43.103		
800.0	800.0	797.0	796.7	2.6	2.6	100.15	-34.3	191.6	194.7	189.5	5.19	37.470		
900.0	900.0	896.3	896.0	3.0	2.9	100.65	-36.2	192.6	196.0	190.1	5.90	33.222		
1,000.0	1,000.0	994.9	994.5	3.4	3.2	100.98	-37.7	194.2	197.8	191.2	6.60	29.982		
1,100.0	1,100.0	1,094.7	1,094.2	3.7	3.6	101.27	-39.1	196.3	200.2	192.9	7.30	27.411		
1,200.0	1,200.0	1,195.8	1,195.4	4.1	3.9	101.12	-39.0	198.5	202.3	194.3	8.01	25.251		
1,300.0	1,300.0	1,297.0	1,296.5	4.4	4.3	100.52	-37.2	200.2	203.7	195.0	8.72	23.355		
1,400.0	1,400.0	1,395.9	1,395.4	4.8	4.6	99.74	-34.7	202.1	205.1	195.7	9.42	21.774		
1,500.0	1,500.0	1,498.9	1,498.4	5.1	5.0	99.04	-32.4	203.9	206.5	196.4	10.14	20.369		
1,600.0	1,600.0	1,608.8	1,608.2	5.5	5.4	-132.08	-30.9	202.1	205.3	194.4	10.86	18.906		
1,700.0	1,700.0	1,716.4	1,715.5	5.8	5.7	-132.40	-30.9	195.1	200.6	189.0	11.54	17.379		
1,800.0	1,799.9	1,814.6	1,813.5	6.2	6.1	-132.86	-31.6	187.4	195.8	183.6	12.22	16.020		
1,900.0	1,899.7	1,917.9	1,916.3	6.5	6.5	-133.16	-34.1	178.2	191.5	178.6	12.91	14.834		
2,000.0	1,999.4	2,017.7	2,015.6	6.8	6.8	-133.45	-37.7	168.5	187.6	174.0	13.60	13.794		
2,100.0	2,098.9	2,116.9	2,114.3	7.2	7.2	-134.19	-41.1	159.1	185.3	171.0	14.30	12.954		
2,199.1	2,197.4	2,215.4	2,212.3	7.5	7.5	-135.31	-44.5	150.1	184.5	169.5	15.00	12.297		
2,200.0	2,198.3	2,216.3	2,213.2	7.5	7.6	-135.32	-44.6	150.0	184.5	169.5	15.01	12.292		
2,300.0	2,297.4	2,315.4	2,311.8	7.9	7.9	-136.23	-50.0	141.1	185.4	169.7	15.72	11.791		
2,400.0	2,396.4	2,414.4	2,410.1	8.3	8.3	-136.58	-57.7	132.6	187.4	171.0	16.44	11.399		
2,500.0	2,495.5	2,513.9	2,508.9	8.7	8.7	-136.89	-65.7	124.4	189.9	172.8	17.17	11.063		
2,600.0	2,594.5	2,613.5	2,607.8	9.0	9.0	-137.23	-73.5	116.3	192.5	174.6	17.90	10.757		
2,700.0	2,693.5	2,715.6	2,709.4	9.4	9.4	-137.61	-81.4	108.0	195.1	176.5	18.63	10.473		
2,800.0	2,792.5	2,820.3	2,813.1	9.8	9.8	-138.07	-89.1	97.4	195.6	176.2	19.36	10.104		
2,900.0	2,891.6	2,921.1	2,913.1	10.2	10.2	-138.66	-96.0	85.4	194.4	174.3	20.09	9.677		
3,000.0	2,990.6	3,020.2	3,011.2	10.6	10.6	-139.26	-102.7	73.9	193.5	172.7	20.83	9.289		
3,100.0	3,089.6	3,119.6	3,109.8	11.0	11.0	-139.81	-109.6	62.8	193.1	171.5	21.58	8.947		
3,166.2	3,155.2	3,185.2	3,174.8	11.2	11.3	-140.17	-114.2	55.7	192.9	170.9	22.07	8.742		
3,200.0	3,188.6	3,218.6	3,208.0	11.4	11.4	-140.37	-116.5	52.1	193.0	170.6	22.32	8.645		
3,300.0	3,287.7	3,317.4	3,306.0	11.8	11.8	-140.97	-123.2	42.0	193.5	170.4	23.07	8.388		
3,400.0	3,386.7	3,420.8	3,408.6	12.2	12.2	-141.57	-130.4	30.8	193.5	169.7	23.80	8.129		
3,500.0	3,485.7	3,522.5	3,509.2	12.6	12.6	-142.08	-137.7	18.4	192.0	167.5	24.54	7.825		
3,600.0	3,584.8	3,621.2	3,606.9	13.0	13.0	-142.61	-144.7	6.3	190.6	165.3	25.29	7.536		
3,700.0	3,683.8	3,720.1	3,704.9	13.4	13.4	-143.21	-151.4	-5.2	189.8	163.7	26.04	7.287		
3,764.6	3,747.8	3,783.7	3,768.0	13.7	13.7	-143.62	-155.7	-12.3	189.6	163.1	26.52	7.148		
3,800.0	3,782.8	3,819.0	3,802.9	13.8	13.8	-143.86	-158.1	-16.1	189.6	162.8	26.78	7.079		
3,900.0	3,881.8	3,918.6	3,901.8	14.2	14.2	-144.56	-164.6	-26.8	189.8	162.2	27.53	6.894		
4,000.0	3,980.9	4,019.5	4,001.9	14.6	14.6	-145.28	-171.1	-37.5	190.1	161.9	28.26	6.727		
4,100.0	4,079.9	4,122.4	4,103.8	15.0	15.0	-145.78	-178.6	-49.8	189.0	160.0	28.99	6.520		
4,200.0	4,178.9	4,219.7	4,200.1	15.4	15.4	-146.08	-186.4	-61.8	187.5	157.8	29.76	6.302		
4,207.6	4,186.4	4,226.8	4,207.1	15.5	15.5	-146.09	-187.0	-62.6	187.5	157.7	29.82	6.289		
4,300.0	4,277.9	4,313.7	4,293.2	15.8	15.8	-146.10	-194.5	-70.6	188.9	158.4	30.53	6.189		
4,400.0	4,377.0	4,411.0	4,390.0	16.3	16.2	-145.81	-203.7	-77.1	193.0	161.7	31.29	6.168		
4,500.0	4,476.0	4,513.4	4,491.7	16.7	16.6	-145.62	-213.0	-84.1	196.8	164.8	32.06	6.140		
4,600.0	4,575.0	4,619.5	4,596.9	17.1	17.0	-145.41	-223.0	-93.7	198.5	165.7	32.82	6.048		

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Rodney Robinson Fed Com #128H
Project:	Antelope Ridge	TVD Reference:	KB @ 3747.5usft
Reference Site:	Rodney Robinson	MD Reference:	KB @ 3747.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Rodney Robinson Fed Com #128H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 17-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
4,652.6	4,627.1	4,672.0	4,648.8	17.3	17.3	-145.23	-228.3	-99.5	198.3	165.0	33.23	5.967		
4,700.0	4,674.0	4,716.8	4,693.1	17.5	17.4	-145.02	-233.0	-104.0	198.6	165.0	33.61	5.909		
4,800.0	4,773.1	4,815.5	4,790.8	17.9	17.8	-144.42	-243.6	-112.6	200.5	166.1	34.40	5.828		
4,900.0	4,872.1	4,925.2	4,899.2	18.3	18.3	-143.90	-255.1	-124.3	200.5	165.3	35.15	5.702		
5,000.0	4,971.1	5,022.7	4,995.5	18.7	18.7	-143.79	-264.2	-136.9	198.2	162.3	35.95	5.514		
5,100.0	5,070.2	5,125.1	5,096.7	19.2	19.2	-143.90	-273.1	-150.2	196.0	159.3	36.70	5.341		
5,200.0	5,169.2	5,225.6	5,195.9	19.6	19.6	-144.12	-281.4	-164.0	193.0	155.5	37.45	5.153		
5,300.0	5,268.2	5,325.7	5,294.7	20.0	20.0	-144.39	-289.5	-177.8	190.0	151.8	38.21	4.973		
5,400.0	5,367.2	5,429.0	5,396.5	20.4	20.5	-144.68	-297.9	-193.2	185.9	147.0	38.93	4.776		
5,500.0	5,466.3	5,530.6	5,496.3	20.8	20.9	-144.89	-306.6	-209.9	180.2	140.5	39.67	4.543		
5,600.0	5,565.3	5,629.7	5,593.7	21.2	21.4	-145.12	-315.1	-226.2	174.5	134.0	40.44	4.314		
5,700.0	5,664.3	5,728.7	5,691.1	21.6	21.8	-145.51	-323.1	-242.1	169.2	128.0	41.21	4.107		
5,800.0	5,763.3	5,827.6	5,788.5	22.1	22.2	-145.84	-331.3	-257.5	164.4	122.5	41.98	3.917		
5,900.0	5,862.4	5,926.1	5,885.5	22.5	22.7	-146.15	-339.4	-272.0	160.4	117.7	42.76	3.752		
6,000.0	5,961.4	6,024.4	5,982.6	22.9	23.1	-146.47	-347.5	-285.6	157.4	113.9	43.53	3.616		
6,100.0	6,060.4	6,123.2	6,080.2	23.3	23.5	-146.81	-355.6	-298.3	155.3	111.0	44.29	3.507		
6,200.0	6,159.4	6,221.8	6,177.8	23.7	23.9	-147.20	-363.4	-310.4	154.0	108.9	45.05	3.418		
6,285.6	6,244.2	6,306.1	6,261.2	24.1	24.3	-147.62	-369.7	-319.9	153.6	107.9	45.69	3.362		
6,300.0	6,258.5	6,320.3	6,275.3	24.2	24.3	-147.70	-370.8	-321.5	153.6	107.8	45.80	3.355		
6,400.0	6,357.5	6,420.1	6,374.3	24.6	24.7	-148.28	-378.0	-332.1	154.0	107.4	46.53	3.309		
6,500.0	6,456.5	6,519.3	6,472.7	25.0	25.2	-148.95	-384.9	-342.5	154.5	107.2	47.25	3.269		
6,600.0	6,555.6	6,617.9	6,570.6	25.4	25.6	-149.66	-391.6	-352.2	155.7	107.7	47.97	3.246		
6,700.0	6,654.6	6,716.5	6,668.6	25.8	26.0	-150.35	-398.1	-361.0	157.9	109.2	48.69	3.242		
6,800.0	6,753.6	6,816.9	6,768.4	26.3	26.4	-151.07	-404.6	-369.7	160.4	111.0	49.40	3.246		
6,900.0	6,852.6	6,918.6	6,869.5	26.7	26.8	-151.89	-411.0	-379.3	162.2	112.1	50.11	3.237		
7,000.0	6,951.7	7,018.6	6,968.7	27.1	27.2	-152.67	-417.4	-389.1	163.6	112.8	50.82	3.219		
7,100.0	7,050.7	7,118.6	7,068.1	27.5	27.6	-153.46	-423.7	-399.1	164.9	113.3	51.53	3.200		
7,200.0	7,149.7	7,218.1	7,166.9	27.9	28.0	-154.33	-429.8	-409.0	166.4	114.1	52.23	3.185		
7,300.0	7,248.7	7,317.6	7,265.8	28.4	28.4	-155.24	-435.6	-418.7	168.1	115.2	52.92	3.176		
7,400.0	7,347.8	7,416.5	7,364.0	28.8	28.8	-156.15	-441.2	-427.9	170.4	116.7	53.62	3.177		
7,500.0	7,446.8	7,517.7	7,464.7	29.2	29.2	-157.23	-446.3	-437.0	173.1	118.8	54.30	3.187		
7,598.2	7,544.1	7,620.5	7,566.7	29.6	29.6	-158.26	-452.2	-448.5	173.5	118.6	54.96	3.157		
7,600.0	7,545.8	7,622.3	7,568.5	29.6	29.6	-158.28	-452.3	-448.7	173.5	118.5	54.98	3.156		
7,700.0	7,645.0	7,723.5	7,668.6	30.0	30.0	-159.03	-459.0	-461.8	170.9	115.2	55.67	3.070		
7,800.0	7,744.5	7,822.8	7,766.9	30.4	30.5	-159.48	-465.6	-474.5	166.0	109.6	56.39	2.943		
7,900.0	7,844.3	7,921.2	7,864.3	30.8	30.9	-159.63	-471.8	-486.6	159.1	102.0	57.13	2.785		
8,000.0	7,944.1	8,019.2	7,961.4	31.2	31.3	-159.41	-477.9	-497.7	150.8	93.0	57.87	2.606		
8,100.0	8,044.1	8,117.1	8,058.7	31.5	31.7	-158.86	-483.4	-507.8	141.2	82.6	58.62	2.409		
8,131.5	8,075.7	8,148.1	8,089.5	31.6	31.8	71.95	-485.0	-510.8	137.9	79.1	58.86	2.343		
8,200.0	8,144.1	8,215.9	8,156.9	31.8	32.1	72.60	-488.7	-517.2	130.6	71.3	59.36	2.200		
8,300.0	8,244.1	8,314.0	8,254.5	32.1	32.5	73.77	-494.0	-526.0	120.6	60.4	60.12	2.005		
8,400.0	8,344.1	8,413.0	8,353.0	32.4	32.8	75.08	-498.9	-533.9	111.5	50.6	60.89	1.830		
8,500.0	8,444.1	8,511.8	8,451.5	32.7	33.2	76.54	-503.6	-541.4	102.9	41.2	61.67	1.669		
8,600.0	8,544.1	8,610.9	8,550.2	33.0	33.6	78.05	-507.9	-548.4	95.2	32.7	62.46	1.523		
8,700.0	8,644.1	8,706.6	8,645.8	33.3	33.9	79.55	-511.2	-552.8	89.9	26.7	63.14	1.423 Level 3		
8,800.0	8,744.1	8,805.4	8,744.5	33.6	34.3	81.18	-514.1	-554.6	87.6	23.7	63.89	1.372 Level 3		
8,900.0	8,844.1	8,905.9	8,844.9	34.0	34.6	82.85	-516.8	-556.1	85.8	21.0	64.73	1.325 Level 3		
9,000.0	8,944.1	9,004.9	8,943.9	34.3	35.0	83.28	-517.6	-557.5	84.3	18.9	65.38	1.289 Level 3		
9,100.0	9,044.1	9,104.7	9,043.7	34.6	35.3	82.51	-516.6	-558.4	83.6	17.6	65.96	1.267 Level 3		
9,200.0	9,144.1	9,205.3	9,144.3	34.9	35.6	81.61	-515.5	-559.5	82.6	16.0	66.59	1.240 Level 2		
9,300.0	9,244.1	9,306.4	9,245.3	35.2	35.9	82.31	-516.8	-561.6	80.4	13.0	67.36	1.193 Level 2		
9,400.0	9,344.1	9,406.2	9,345.1	35.5	36.3	83.88	-519.3	-564.2	77.5	9.3	68.16	1.136 Level 2		

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Rodney Robinson Fed Com #128H
Project:	Antelope Ridge	TVD Reference:	KB @ 3747.5usft
Reference Site:	Rodney Robinson	MD Reference:	KB @ 3747.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Rodney Robinson Fed Com #128H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 17-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,500.0	9,444.1	9,505.3	9,444.2	35.8	36.6	84.22	-519.9	-565.9	75.7	6.8	68.82	1.099	Level 2	
9,600.0	9,544.1	9,605.5	9,544.3	36.2	36.9	83.98	-519.7	-567.3	74.3	4.8	69.48	1.069	Level 2	
9,700.0	9,644.1	9,704.9	9,643.8	36.5	37.3	83.56	-519.4	-569.1	72.6	2.5	70.09	1.036	Level 2	
9,740.1	9,684.2	9,744.4	9,683.2	36.6	37.4	83.74	-519.6	-569.2	72.4	2.1	70.33	1.030	Level 2, CC	
9,800.0	9,744.1	9,803.7	9,742.6	36.8	37.6	84.28	-520.3	-568.9	72.7	1.9	70.73	1.027	Level 2	
9,900.0	9,844.1	9,903.7	9,842.6	37.1	37.9	85.36	-521.6	-567.8	73.6	2.2	71.48	1.030	Level 2	
10,000.0	9,944.1	10,004.2	9,943.0	37.4	38.2	86.28	-522.7	-567.3	74.0	1.8	72.25	1.025	Level 2	
10,082.9	10,027.0	10,087.3	10,026.2	37.7	38.5	87.04	-523.7	-567.3	74.0	1.1	72.88	1.016	Level 2	
10,100.0	10,044.1	10,104.5	10,043.3	37.8	38.5	84.39	-523.9	-567.3	74.0	0.9	73.03	1.013	Level 2	
10,149.0	10,093.0	10,152.8	10,091.6	37.9	38.7	87.50	-524.4	-567.4	73.6	0.1	73.56	1.001	Level 2	
10,150.0	10,094.0	10,153.8	10,092.6	37.9	38.7	87.59	-524.4	-567.4	73.6	0.1	73.57	1.001	Level 2, ES, SF	
10,200.0	10,143.3	10,201.8	10,140.6	38.0	38.9	93.68	-524.7	-566.7	74.5	0.1	74.32	1.002	Level 2	
10,250.0	10,191.8	10,249.6	10,188.3	38.2	39.0	102.07	-524.9	-565.3	77.7	2.4	75.31	1.031	Level 2	
10,300.0	10,239.0	10,296.5	10,235.3	38.3	39.1	111.66	-525.0	-563.8	84.4	8.1	76.36	1.106	Level 2	
10,350.0	10,284.5	10,342.3	10,281.0	38.4	39.3	121.09	-525.0	-562.1	95.9	18.7	77.21	1.242	Level 2	
10,400.0	10,328.2	10,386.4	10,325.1	38.4	39.4	129.42	-524.9	-560.8	112.4	34.7	77.74	1.446	Level 3	
10,450.0	10,369.5	10,428.2	10,366.9	38.5	39.5	136.13	-524.8	-559.6	134.2	56.2	77.99	1.720		
10,500.0	10,408.2	10,467.2	10,405.9	38.5	39.6	141.18	-524.7	-558.7	160.8	82.7	78.07	2.059		
10,550.0	10,444.1	10,503.4	10,442.1	38.5	39.7	144.79	-524.6	-557.8	191.8	113.7	78.08	2.456		
10,600.0	10,476.7	10,536.4	10,475.1	38.6	39.8	147.18	-524.5	-557.1	226.6	148.5	78.06	2.902		
10,650.0	10,505.9	10,566.0	10,504.7	38.6	39.9	148.48	-524.4	-556.6	264.7	186.7	78.03	3.392		
10,700.0	10,531.5	10,592.0	10,530.6	38.5	40.0	148.70	-524.3	-556.2	305.7	227.7	78.00	3.919		
10,750.0	10,553.3	10,613.9	10,552.6	38.5	40.1	147.67	-524.2	-556.0	349.2	271.2	77.97	4.478		
10,800.0	10,571.0	10,631.9	10,570.6	38.5	40.1	144.96	-524.1	-555.8	394.6	316.7	77.93	5.064		
10,850.0	10,584.6	10,645.7	10,584.4	38.4	40.2	139.63	-524.1	-555.6	441.7	363.8	77.89	5.671		
10,900.0	10,594.0	10,655.3	10,594.0	38.4	40.2	129.55	-524.1	-555.5	489.9	412.1	77.85	6.294		
10,950.0	10,599.0	10,660.6	10,599.2	38.4	40.2	110.37	-524.0	-555.4	539.0	461.2	77.80	6.928		
10,982.9	10,600.0	10,661.7	10,600.3	38.3	40.2	90.91	-524.0	-555.4	571.4	493.7	77.76	7.348		
11,000.0	10,599.9	10,661.7	10,600.4	38.3	40.2	90.34	-524.0	-555.4	588.4	510.6	77.75	7.568		
11,100.0	10,599.3	10,661.5	10,600.1	38.2	40.2	84.61	-524.0	-555.4	687.7	610.0	77.67	8.854		
11,168.3	10,598.3	10,660.7	10,599.4	38.2	40.2	75.91	-524.0	-555.4	755.9	678.2	77.64	9.735		
11,200.0	10,597.8	10,660.3	10,598.9	38.3	40.2	75.37	-524.0	-555.4	787.5	709.8	77.63	10.144		
11,300.0	10,596.0	10,658.9	10,597.5	38.6	40.2	73.67	-524.1	-555.4	887.3	809.7	77.60	11.434		
11,400.0	10,594.3	10,657.5	10,596.1	39.1	40.2	71.99	-524.1	-555.5	987.2	909.6	77.58	12.724		
11,500.0	10,592.5	10,656.0	10,594.7	39.6	40.2	70.35	-524.1	-555.5	1,087.1	1,009.5	77.57	14.015		
11,600.0	10,590.8	10,654.6	10,593.3	40.1	40.2	68.73	-524.1	-555.5	1,187.0	1,109.4	77.56	15.305		
11,700.0	10,589.1	10,653.2	10,591.9	40.7	40.2	67.14	-524.1	-555.5	1,286.9	1,209.4	77.55	16.595		
11,800.0	10,587.3	10,651.8	10,590.4	41.4	40.2	65.59	-524.1	-555.5	1,386.9	1,309.3	77.55	17.884		
11,900.0	10,585.6	10,650.4	10,589.0	42.1	40.2	64.07	-524.1	-555.5	1,486.8	1,409.3	77.54	19.174		
12,000.0	10,583.8	10,648.9	10,587.6	42.9	40.2	62.59	-524.1	-555.6	1,586.8	1,509.2	77.54	20.463		
12,100.0	10,582.1	13,652.3	12,195.5	43.7	49.2	177.99	1,158.5	-560.0	1,615.5	1,573.3	42.14	38.332		
12,200.0	10,580.3	13,716.9	12,196.5	44.6	49.7	178.05	1,223.0	-562.2	1,618.5	1,575.7	42.81	37.812		
12,300.0	10,578.6	13,801.2	12,199.4	45.5	50.4	178.15	1,307.2	-565.7	1,623.6	1,579.9	43.68	37.173		
12,400.0	10,576.8	12,400.0	12,201.4	46.4	43.7	178.30	1,458.7	-571.3	1,626.3	1,588.9	37.42	43.462		
12,500.0	10,575.1	14,093.0	12,199.0	47.4	53.0	178.43	1,598.8	-576.3	1,626.0	1,579.2	46.74	34.784		
12,597.3	10,573.4	14,181.9	12,197.0	48.4	53.8	178.53	1,687.5	-580.2	1,625.4	1,577.7	47.71	34.070		
12,600.0	10,573.3	14,183.4	12,197.0	48.4	53.9	178.53	1,689.0	-580.3	1,625.4	1,577.7	47.72	34.059		
12,700.0	10,571.6	14,239.8	12,196.9	49.4	54.4	178.63	1,745.3	-583.5	1,626.8	1,578.5	48.34	33.656		
12,800.0	10,569.9	14,377.3	12,197.5	50.5	55.8	178.74	1,882.7	-587.9	1,629.1	1,579.2	49.93	32.630		
12,880.9	10,568.4	14,465.7	12,195.8	51.4	56.7	178.69	1,971.1	-587.3	1,629.1	1,578.1	51.01	31.934		
12,900.0	10,568.1	14,478.7	12,195.6	51.6	56.9	178.68	1,984.1	-587.2	1,629.1	1,577.9	51.17	31.838		
13,000.0	10,566.4	14,548.0	12,195.3	52.8	57.6	178.66	2,053.4	-587.5	1,630.5	1,578.4	52.01	31.347		

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Rodney Robinson Fed Com #128H
Project:	Antelope Ridge	TVD Reference:	KB @ 3747.5usft
Reference Site:	Rodney Robinson	MD Reference:	KB @ 3747.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Rodney Robinson Fed Com #128H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 17-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Tooface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
13,100.0	10,564.6	14,648.1	12,195.9	53.9	58.7	178.67	2,153.4	-588.5	1,632.7	1,579.5	53.25	30.660		
13,200.0	10,562.9	14,744.4	12,196.4	55.1	59.8	178.66	2,249.8	-589.3	1,635.0	1,580.5	54.46	30.019		
13,300.0	10,561.1	14,820.8	12,197.5	56.3	60.6	178.65	2,326.2	-589.7	1,638.2	1,582.7	55.45	29.541		
13,400.0	10,559.4	15,052.8	12,196.1	57.6	63.4	178.71	2,558.0	-593.5	1,641.0	1,582.5	58.50	28.053		
13,500.0	10,557.6	15,128.1	12,192.1	58.8	64.3	178.73	2,633.2	-595.1	1,637.4	1,578.0	59.42	27.555		
13,592.7	10,556.0	15,177.8	12,190.6	60.0	64.9	178.79	2,682.8	-597.1	1,636.2	1,576.2	60.02	27.260		
13,600.0	10,555.9	15,181.7	12,190.5	60.1	64.9	178.79	2,686.7	-597.3	1,636.2	1,576.1	60.07	27.239		
13,700.0	10,554.1	15,244.3	12,190.5	61.4	65.7	178.92	2,749.2	-601.6	1,637.7	1,576.8	60.86	26.910		
13,800.0	10,552.4	15,402.9	12,190.9	62.7	67.7	179.27	2,907.2	-613.0	1,640.3	1,577.4	62.87	26.089		
13,866.8	10,551.2	15,452.5	12,189.8	63.6	68.4	179.25	2,956.8	-613.0	1,640.0	1,576.4	63.54	25.809		
13,900.0	10,550.6	15,477.1	12,189.4	64.0	68.7	179.22	2,981.4	-612.5	1,640.0	1,576.2	63.88	25.674		
14,000.0	10,548.9	15,571.6	12,188.5	65.4	69.9	179.12	3,075.9	-610.5	1,640.8	1,575.6	65.19	25.169		
14,100.0	10,547.2	15,657.4	12,188.0	66.7	71.0	179.08	3,161.7	-610.1	1,642.1	1,575.7	66.38	24.738		
14,200.0	10,545.4	15,759.8	12,188.0	68.1	72.3	178.95	3,264.1	-607.6	1,643.9	1,576.0	67.83	24.237		
14,300.0	10,543.7	15,895.3	12,185.7	69.5	74.0	178.61	3,399.3	-599.1	1,644.0	1,574.2	69.81	23.549		
14,356.5	10,542.7	15,942.8	12,184.7	70.3	74.6	178.48	3,446.7	-595.9	1,643.8	1,573.3	70.51	23.312		
14,400.0	10,541.9	15,984.1	12,184.0	70.9	75.2	178.37	3,487.9	-593.1	1,643.9	1,572.8	71.13	23.112		
14,480.9	10,540.5	16,070.7	12,182.2	72.0	76.3	178.15	3,574.2	-587.5	1,643.9	1,571.5	72.42	22.699		
14,500.0	10,540.2	16,084.7	12,182.0	72.3	76.5	178.11	3,588.2	-586.7	1,643.9	1,571.3	72.63	22.635		
14,600.0	10,538.4	16,185.1	12,180.5	73.7	77.9	177.92	3,688.5	-582.0	1,644.3	1,570.2	74.12	22.186		
14,700.0	10,536.7	16,296.3	12,177.7	75.1	79.4	177.74	3,799.6	-578.0	1,643.7	1,567.9	75.76	21.696		
14,800.0	10,534.9	16,393.7	12,175.6	76.5	80.7	177.71	3,896.9	-578.2	1,643.4	1,566.2	77.15	21.300		
14,900.0	10,533.2	16,531.8	12,171.5	78.0	82.7	177.79	4,035.0	-581.9	1,642.2	1,563.1	79.10	20.761		
15,000.0	10,531.4	16,635.3	12,166.9	79.4	84.1	177.87	4,138.2	-585.4	1,639.3	1,558.8	80.54	20.354		
15,100.0	10,529.7	16,709.4	12,164.1	80.9	85.2	177.90	4,212.3	-587.0	1,637.3	1,555.7	81.59	20.068		
15,200.0	10,527.9	16,795.1	12,161.8	82.4	86.4	177.88	4,298.0	-587.4	1,636.4	1,553.6	82.83	19.757		
15,300.0	10,526.2	16,936.1	12,156.0	83.8	88.4	177.77	4,438.8	-585.8	1,633.9	1,548.9	84.91	19.242		
15,400.0	10,524.5	17,002.0	12,153.8	85.3	89.4	177.74	4,504.7	-585.7	1,632.1	1,546.3	85.87	19.006		
15,500.0	10,522.7	17,125.5	12,149.8	86.8	91.1	177.74	4,628.1	-586.8	1,630.7	1,543.0	87.67	18.599		
15,600.0	10,521.0	17,220.7	12,145.9	88.3	92.5	177.76	4,723.2	-588.5	1,628.3	1,539.3	89.05	18.285		
15,700.0	10,519.2	17,303.2	12,143.3	89.8	93.7	177.80	4,805.6	-590.6	1,626.8	1,536.6	90.24	18.029		
15,800.0	10,517.5	17,394.7	12,141.2	91.3	95.1	177.89	4,897.1	-594.0	1,626.2	1,534.7	91.54	17.765		
15,900.0	10,515.7	17,504.7	12,138.4	92.8	96.7	178.03	5,006.9	-598.9	1,625.3	1,532.2	93.10	17.458		
16,000.0	10,514.0	17,612.0	12,135.6	94.3	98.3	178.17	5,114.0	-604.2	1,624.3	1,529.7	94.61	17.168		
16,100.0	10,512.2	17,715.8	12,131.7	95.8	99.9	178.14	5,217.8	-604.4	1,622.3	1,526.1	96.16	16.871		
16,200.0	10,510.5	17,800.8	12,129.1	97.3	101.1	178.15	5,302.8	-605.4	1,621.0	1,523.6	97.41	16.641		
16,300.0	10,508.7	17,892.1	12,127.2	98.9	102.5	178.25	5,393.9	-609.4	1,620.6	1,521.9	98.72	16.416		
16,400.0	10,507.0	16,400.0	12,123.4	100.4	80.0	178.46	5,524.6	-616.5	1,619.2	1,530.4	88.76	18.243		
16,500.0	10,505.3	18,137.0	12,116.9	101.9	106.2	178.35	5,638.2	-614.6	1,615.2	1,512.9	102.29	15.790		
16,600.0	10,503.5	18,211.2	12,113.5	103.5	107.3	178.21	5,712.3	-611.6	1,612.6	1,509.1	103.46	15.586		
16,700.0	10,501.8	18,307.2	12,110.8	105.0	108.7	178.18	5,808.3	-611.8	1,611.6	1,506.7	104.91	15.362		
16,800.0	10,500.0	18,422.4	12,107.0	106.6	110.5	178.25	5,923.3	-615.0	1,610.0	1,503.4	106.59	15.104		
16,900.0	10,498.3	18,523.7	12,103.0	108.1	112.0	178.19	6,024.5	-614.2	1,607.8	1,499.7	108.13	14.869		
17,000.0	10,496.5	18,608.9	12,100.0	109.7	113.3	178.14	6,109.7	-613.7	1,606.1	1,496.7	109.43	14.676		
17,100.0	10,494.8	18,704.0	12,097.3	111.2	114.8	178.16	6,204.8	-615.5	1,605.0	1,494.1	110.85	14.479		
17,200.0	10,493.0	18,816.5	12,093.6	112.8	116.5	178.09	6,317.2	-614.5	1,603.4	1,490.8	112.57	14.244		
17,300.0	10,491.3	18,901.0	12,090.9	114.3	117.8	177.95	6,401.5	-611.6	1,602.2	1,488.3	113.90	14.066		
17,400.0	10,489.5	19,013.1	12,087.7	115.9	119.5	177.84	6,513.6	-609.5	1,601.2	1,485.6	115.64	13.846		
17,500.0	10,487.8	19,132.6	12,082.7	117.5	121.3	177.82	6,633.0	-610.4	1,598.6	1,481.2	117.43	13.613		
17,600.0	10,486.0	19,253.1	12,076.9	119.0	123.2	177.89	6,753.3	-613.6	1,595.6	1,476.4	119.20	13.387		
17,700.0	10,484.3	19,334.5	12,072.4	120.6	124.5	177.83	6,834.5	-612.8	1,591.9	1,471.4	120.48	13.214		
17,800.0	10,482.6	19,430.5	12,068.4	122.2	126.0	177.80	6,930.5	-613.1	1,589.5	1,467.6	121.94	13.035		

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Rodney Robinson Fed Com #128H
Project:	Antelope Ridge	TVD Reference:	KB @ 3747.5usft
Reference Site:	Rodney Robinson	MD Reference:	KB @ 3747.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Rodney Robinson Fed Com #128H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft	
Survey Program: 17-MWD													Offset Well Error:		0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Tooface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
17,900.0	10,480.8	19,524.2	12,064.4	123.7	127.4	177.87	7,024.0	-616.1	1,586.9	1,463.6	123.33	12.867			
18,000.0	10,479.1	19,610.9	12,061.4	125.3	128.8	177.97	7,110.5	-619.7	1,585.1	1,460.5	124.60	12.721			
18,100.0	10,477.3	19,701.8	12,058.8	126.9	130.2	177.96	7,201.5	-620.6	1,584.0	1,458.1	125.99	12.573			
18,200.0	10,475.6	19,842.2	12,054.0	128.5	132.4	177.83	7,341.7	-618.3	1,582.6	1,454.5	128.15	12.350			
18,300.0	10,473.8	19,915.1	12,050.8	130.1	133.5	177.70	7,414.5	-615.5	1,580.2	1,450.8	129.35	12.216			
18,375.9	10,472.5	19,965.0	12,049.4	131.3	134.3	177.65	7,464.3	-614.8	1,579.5	1,449.4	130.14	12.137			
18,400.0	10,472.1	19,979.7	12,049.2	131.7	134.5	177.65	7,479.1	-614.7	1,579.6	1,449.2	130.36	12.117			
18,500.0	10,470.3	20,041.7	12,049.3	133.2	135.5	177.66	7,541.0	-615.7	1,581.4	1,450.1	131.26	12.048			
18,600.0	10,468.6	20,106.8	12,050.8	134.8	136.5	177.69	7,606.1	-617.1	1,585.5	1,453.3	132.16	11.997			
18,700.0	10,466.8	20,306.2	12,051.0	136.4	139.6	177.67	7,805.4	-618.2	1,587.1	1,451.8	135.33	11.728			
18,800.0	10,465.1	20,420.5	12,047.2	138.0	141.4	177.62	7,919.7	-618.2	1,585.6	1,448.5	137.09	11.566			
18,900.0	10,463.3	20,530.0	12,042.5	139.6	143.1	177.52	8,029.1	-616.5	1,583.1	1,444.3	138.81	11.405			
19,000.0	10,461.6	20,632.3	12,038.1	141.2	144.7	177.39	8,131.2	-614.0	1,580.7	1,440.2	140.44	11.255			
19,100.0	10,459.9	20,726.1	12,033.5	142.8	146.2	177.30	8,224.9	-612.7	1,577.7	1,435.8	141.93	11.116			
19,200.0	10,458.1	20,795.0	12,031.4	144.4	147.3	177.30	8,293.8	-613.4	1,576.4	1,433.4	143.01	11.024			
19,300.0	10,456.4	20,879.0	12,028.4	146.0	148.6	177.34	8,377.7	-615.4	1,574.8	1,430.5	144.26	10.916			
19,320.7	10,456.0	20,910.2	12,027.2	146.3	149.1	177.35	8,408.9	-616.2	1,574.2	1,429.4	144.74	10.876			
19,400.0	10,454.6	20,937.7	12,027.2	147.6	149.6	177.37	8,436.4	-616.9	1,575.5	1,430.4	145.08	10.859			
19,500.0	10,452.9	20,974.0	12,028.6	149.2	150.1	177.39	8,472.6	-617.6	1,580.8	1,435.4	145.42	10.871			
19,600.0	10,451.1	19,600.0	12,034.4	150.8	128.3	177.49	8,638.0	-621.6	1,585.9	1,449.6	136.37	11.629			
19,700.0	10,449.4	21,292.2	12,032.5	152.4	155.2	177.60	8,790.5	-626.3	1,585.8	1,435.4	150.45	10.540			
19,718.5	10,449.1	21,308.4	12,032.3	152.7	155.4	177.62	8,806.7	-627.0	1,585.8	1,435.1	150.69	10.524			
19,800.0	10,447.6	21,371.5	12,031.5	154.0	156.5	177.71	8,869.7	-630.0	1,586.2	1,434.6	151.60	10.463			
19,900.0	10,445.9	21,445.0	12,032.1	155.6	157.6	177.69	8,943.2	-630.3	1,588.6	1,435.9	152.71	10.403			
20,000.0	10,444.1	21,547.7	12,033.5	157.2	159.2	177.49	9,045.8	-625.6	1,592.0	1,437.6	154.40	10.310			
20,100.0	10,442.4	21,641.3	12,034.4	158.8	160.7	177.28	9,139.3	-620.4	1,595.0	1,439.0	155.96	10.227			
20,200.0	10,440.7	21,764.7	12,034.4	160.4	162.6	177.01	9,262.5	-614.0	1,596.9	1,438.8	158.07	10.102			
20,300.0	10,438.9	21,972.1	12,028.3	162.0	165.9	176.65	9,469.5	-606.4	1,596.9	1,435.5	161.40	9.894			
20,400.0	10,437.2	22,128.3	12,013.4	163.6	168.4	176.46	9,625.1	-603.1	1,588.8	1,425.1	163.70	9.706			
20,500.0	10,435.4	22,180.3	12,008.8	165.3	169.2	176.41	9,676.8	-602.5	1,581.7	1,416.9	164.77	9.600			
20,600.0	10,433.7	22,233.3	12,005.6	166.9	170.1	176.37	9,729.6	-602.3	1,577.6	1,411.9	165.73	9.519			
20,700.0	10,431.9	22,295.0	12,003.9	168.5	171.0	176.34	9,791.4	-602.1	1,576.5	1,409.8	166.74	9.455			
20,800.0	10,430.2	22,416.2	12,000.6	170.1	173.0	176.31	9,912.5	-602.4	1,575.6	1,406.9	168.64	9.343			
20,823.1	10,429.8	22,415.0	12,000.7	170.5	173.0	176.31	9,911.3	-602.4	1,575.4	1,406.8	168.62	9.343			
20,867.4	10,429.0	22,415.0	12,000.7	171.2	173.0	176.31	9,911.3	-602.4	1,576.0	1,407.5	168.56	9.350			

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Rodney Robinson Fed Com #128H
Project:	Antelope Ridge	TVD Reference:	KB @ 3747.5usft
Reference Site:	Rodney Robinson	MD Reference:	KB @ 3747.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Rodney Robinson Fed Com #128H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference				Offset		Semi Major Axis			Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Tooface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	1.0	1.0	0.0	0.0	179.55	-30.0	0.2	30.0					
100.0	100.0	101.0	101.0	0.1	0.1	179.55	-30.0	0.2	30.0	29.7	0.26	115.347		
200.0	200.0	201.0	201.0	0.5	0.5	179.55	-30.0	0.2	30.0	29.0	0.98	30.689		
300.0	300.0	301.0	301.0	0.8	0.8	179.55	-30.0	0.2	30.0	28.3	1.69	17.699		
400.0	400.0	401.0	401.0	1.2	1.2	179.55	-30.0	0.2	30.0	27.6	2.41	12.435		
500.0	500.0	501.0	501.0	1.6	1.6	179.55	-30.0	0.2	30.0	26.9	3.13	9.585		
600.0	600.0	601.0	601.0	1.9	1.9	179.55	-30.0	0.2	30.0	26.1	3.84	7.797		
700.0	700.0	701.0	701.0	2.3	2.3	179.55	-30.0	0.2	30.0	25.4	4.56	6.572		
800.0	800.0	801.0	801.0	2.6	2.6	179.55	-30.0	0.2	30.0	24.7	5.28	5.679		
900.0	900.0	901.0	901.0	3.0	3.0	179.55	-30.0	0.2	30.0	24.0	6.00	5.000		
1,000.0	1,000.0	1,001.0	1,001.0	3.4	3.4	179.55	-30.0	0.2	30.0	23.3	6.71	4.466		
1,100.0	1,100.0	1,101.0	1,101.0	3.7	3.7	179.55	-30.0	0.2	30.0	22.5	7.43	4.035		
1,200.0	1,200.0	1,201.0	1,201.0	4.1	4.1	179.55	-30.0	0.2	30.0	21.8	8.15	3.680		
1,300.0	1,300.0	1,301.0	1,301.0	4.4	4.4	179.55	-30.0	0.2	30.0	21.1	8.86	3.382		
1,400.0	1,400.0	1,401.0	1,401.0	4.8	4.8	179.55	-30.0	0.2	30.0	20.4	9.58	3.129		
1,500.0	1,500.0	1,501.0	1,501.0	5.1	5.2	179.55	-30.0	0.2	30.0	19.7	10.30	2.911		
1,600.0	1,600.0	1,601.0	1,601.0	5.5	5.5	-52.33	-30.0	0.2	29.4	18.4	11.00	2.676		
1,700.0	1,700.0	1,701.0	1,701.0	5.8	5.9	-56.60	-30.0	0.2	27.9	16.2	11.69	2.388		
1,800.0	1,799.9	1,800.9	1,800.9	6.2	6.2	-64.73	-30.0	0.2	25.8	13.4	12.38	2.081		
1,900.0	1,899.7	1,900.7	1,900.7	6.5	6.6	-78.14	-30.0	0.2	23.8	10.7	13.08	1.820		
1,965.1	1,964.5	1,965.5	1,965.5	6.7	6.8	-90.00	-30.0	0.2	23.3	9.8	13.54	1.721 CC		
2,000.0	1,999.4	2,000.4	2,000.4	6.8	6.9	-97.16	-30.0	0.2	23.5	9.7	13.78	1.704 ES, SF		
2,100.0	2,098.9	2,100.1	2,099.9	7.2	7.3	-118.13	-30.0	0.2	26.5	12.0	14.48	1.826		
2,200.0	2,198.3	2,200.7	2,199.3	7.5	7.7	-135.45	-30.0	0.2	33.3	18.1	15.19	2.195		
2,300.0	2,297.4	2,301.6	2,298.4	7.9	8.0	-147.48	-30.0	0.2	43.6	27.7	15.89	2.746		
2,400.0	2,396.4	2,402.6	2,397.4	8.3	8.4	-165.15	-30.0	0.2	55.9	39.3	16.60	3.368		
2,500.0	2,495.5	2,503.5	2,496.5	8.7	8.7	-160.03	-30.0	0.2	68.8	51.5	17.31	3.975		
2,600.0	2,594.5	2,604.5	2,595.5	9.0	9.1	-163.35	-30.0	0.2	82.0	64.0	18.02	4.553		
2,700.0	2,693.5	2,705.5	2,694.5	9.4	9.5	-165.74	-30.0	0.2	95.5	76.7	18.73	5.096		
2,800.0	2,792.5	2,806.5	2,793.5	9.8	9.8	-167.54	-30.0	0.2	109.0	89.6	19.44	5.607		
2,900.0	2,891.6	2,907.4	2,892.6	10.2	10.2	-168.94	-30.0	0.2	122.6	102.5	20.16	6.084		
3,000.0	2,990.6	3,008.4	2,991.6	10.6	10.6	-170.06	-30.0	0.2	136.3	115.5	20.87	6.531		
3,100.0	3,089.6	3,109.4	3,090.6	11.0	10.9	-170.98	-30.0	0.2	150.1	128.5	21.59	6.951		
3,200.0	3,188.6	3,189.6	3,189.6	11.4	11.2	-171.74	-30.0	0.2	163.8	141.6	22.23	7.369		
3,300.0	3,287.7	3,288.7	3,288.7	11.8	11.6	-172.39	-30.0	0.2	177.6	154.7	22.94	7.741		
3,400.0	3,386.7	3,387.7	3,387.7	12.2	11.9	-172.94	-30.0	0.2	191.4	167.8	23.65	8.092		
3,500.0	3,485.7	3,486.7	3,486.7	12.6	12.3	-173.42	-30.0	0.2	205.2	180.9	24.37	8.422		
3,600.0	3,584.8	3,585.8	3,585.8	13.0	12.6	-173.84	-30.0	0.2	219.1	194.0	25.08	8.734		
3,700.0	3,683.8	3,684.8	3,684.8	13.4	13.0	-174.20	-30.0	0.2	232.9	207.1	25.80	9.029		
3,800.0	3,782.8	3,783.8	3,783.8	13.8	13.3	-174.53	-30.0	0.2	246.8	220.2	26.51	9.308		
3,900.0	3,881.8	3,882.8	3,882.8	14.2	13.7	-174.82	-30.0	0.2	260.6	233.4	27.22	9.573		
4,000.0	3,980.9	3,981.9	3,981.9	14.6	14.0	-175.08	-30.0	0.2	274.5	246.5	27.94	9.824		
4,100.0	4,079.9	4,080.5	4,080.5	15.0	14.4	-175.30	-30.4	-0.2	287.8	259.1	28.67	10.037		
4,200.0	4,178.9	4,189.6	4,189.5	15.4	14.7	-175.42	-32.3	-1.8	299.3	269.9	29.38	10.187		
4,300.0	4,277.9	4,294.5	4,294.4	15.8	15.1	-175.44	-35.6	-4.8	309.1	279.0	30.09	10.273		
4,400.0	4,377.0	4,399.8	4,399.5	16.3	15.4	-175.38	-40.4	-9.0	317.1	286.4	30.79	10.299		
4,500.0	4,476.0	4,505.3	4,504.7	16.7	15.8	-175.24	-46.6	-14.5	323.4	291.9	31.49	10.270		
4,600.0	4,575.0	4,611.1	4,609.9	17.1	16.1	-175.03	-54.3	-21.4	327.8	295.7	32.18	10.188		
4,700.0	4,674.0	4,716.9	4,715.0	17.5	16.5	-174.74	-63.5	-29.5	330.5	297.6	32.86	10.058		
4,800.0	4,773.1	4,821.5	4,818.7	17.9	16.9	-174.38	-73.9	-38.8	331.4	297.9	33.54	9.881		
4,900.0	4,872.1	4,921.5	4,917.7	18.3	17.2	-174.01	-84.3	-48.0	331.8	297.6	34.25	9.689		
5,000.0	4,971.1	5,021.5	5,016.7	18.7	17.6	-173.64	-94.7	-57.2	332.2	297.3	34.95	9.504		

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Rodney Robinson Fed Com #128H
Project:	Antelope Ridge	TVD Reference:	KB @ 3747.5usft
Reference Site:	Rodney Robinson	MD Reference:	KB @ 3747.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Rodney Robinson Fed Com #128H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												Offset Well Error:	0.0 usft
Reference				Offset		Semi Major Axis			Distance				Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Tooface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,100.0	5,070.2	5,121.5	5,115.7	19.2	17.9	-173.27	-105.2	-66.5	332.6	297.0	35.66	9.326	
5,200.0	5,169.2	5,221.4	5,214.7	19.6	18.3	-172.90	-115.6	-75.7	333.1	296.7	36.38	9.156	
5,300.0	5,268.2	5,321.4	5,313.7	20.0	18.6	-172.54	-126.0	-84.9	333.5	296.4	37.09	8.991	
5,400.0	5,367.2	5,421.4	5,412.7	20.4	19.0	-172.17	-136.4	-94.2	334.0	296.1	37.81	8.833	
5,500.0	5,466.3	5,521.4	5,511.7	20.8	19.4	-171.81	-146.8	-103.4	334.4	295.9	38.52	8.681	
5,600.0	5,565.3	5,621.3	5,610.8	21.2	19.7	-171.44	-157.2	-112.6	334.9	295.7	39.24	8.534	
5,700.0	5,664.3	5,721.3	5,709.8	21.6	20.1	-171.08	-167.6	-121.9	335.4	295.4	39.97	8.392	
5,800.0	5,763.3	5,821.3	5,808.8	22.1	20.5	-170.72	-178.0	-131.1	335.9	295.2	40.69	8.256	
5,900.0	5,862.4	5,921.3	5,907.8	22.5	20.8	-170.36	-188.4	-140.3	336.4	295.0	41.41	8.124	
6,000.0	5,961.4	6,021.2	6,006.8	22.9	21.2	-170.00	-198.8	-149.6	337.0	294.8	42.14	7.997	
6,100.0	6,060.4	6,121.2	6,105.8	23.3	21.6	-169.64	-209.2	-158.8	337.5	294.7	42.87	7.874	
6,200.0	6,159.4	6,221.2	6,204.8	23.7	22.0	-169.28	-219.6	-168.0	338.1	294.5	43.60	7.755	
6,300.0	6,258.5	6,321.2	6,303.8	24.2	22.3	-168.93	-230.1	-177.3	338.7	294.3	44.33	7.640	
6,400.0	6,357.5	6,421.2	6,402.8	24.6	22.7	-168.57	-240.5	-186.5	339.3	294.2	45.06	7.528	
6,500.0	6,456.5	6,521.1	6,501.8	25.0	23.1	-168.22	-250.9	-195.7	339.9	294.1	45.80	7.421	
6,600.0	6,555.6	6,621.1	6,600.8	25.4	23.5	-167.87	-261.3	-205.0	340.5	293.9	46.53	7.317	
6,700.0	6,654.6	6,721.1	6,699.8	25.8	23.9	-167.52	-271.7	-214.2	341.1	293.8	47.27	7.216	
6,800.0	6,753.6	6,821.1	6,798.8	26.3	24.3	-167.17	-282.1	-223.4	341.7	293.7	48.01	7.118	
6,900.0	6,852.6	6,921.0	6,897.8	26.7	24.7	-166.82	-292.5	-232.7	342.4	293.6	48.75	7.023	
7,000.0	6,951.7	7,021.0	6,996.8	27.1	25.0	-166.47	-302.9	-241.9	343.1	293.6	49.49	6.931	
7,100.0	7,050.7	7,121.0	7,095.8	27.5	25.4	-166.13	-313.3	-251.1	343.7	293.5	50.24	6.842	
7,200.0	7,149.7	7,221.0	7,194.8	27.9	25.8	-165.79	-323.7	-260.4	344.4	293.4	50.98	6.756	
7,300.0	7,248.7	7,320.9	7,293.8	28.4	26.2	-165.44	-334.1	-269.6	345.1	293.4	51.73	6.672	
7,400.0	7,347.8	7,420.9	7,392.8	28.8	26.6	-165.10	-344.5	-278.8	345.8	293.4	52.48	6.590	
7,500.0	7,446.8	7,520.9	7,491.8	29.2	27.0	-164.76	-354.9	-288.1	346.6	293.3	53.23	6.511	
7,598.2	7,544.1	7,619.1	7,589.1	29.6	27.4	-164.43	-365.2	-297.2	347.3	293.3	53.96	6.436	
7,600.0	7,545.8	7,620.9	7,590.8	29.6	27.4	-164.42	-365.4	-297.3	347.3	293.3	53.98	6.434	
7,700.0	7,645.0	7,720.8	7,689.8	30.0	27.8	-164.02	-375.8	-306.5	348.8	292.0	54.73	6.336	
7,800.0	7,744.5	7,820.7	7,788.7	30.4	28.2	-163.49	-386.2	-315.8	349.7	288.2	55.48	6.195	
7,900.0	7,844.3	7,920.5	7,887.5	30.8	28.6	-162.80	-396.6	-325.0	350.2	282.0	56.24	6.014	
8,000.0	7,944.1	8,020.1	7,986.1	31.2	29.0	-161.94	-406.9	-334.2	350.2	273.3	56.99	5.794	
8,100.0	8,044.1	8,119.4	8,084.5	31.5	29.4	-160.88	-417.3	-343.4	349.9	262.1	57.76	5.539	
8,131.5	8,075.7	8,150.6	8,115.4	31.6	29.5	70.06	-420.5	-346.2	349.9	258.2	57.99	5.451	
8,200.0	8,144.1	8,218.4	8,182.5	31.8	29.8	70.90	-427.6	-352.5	349.8	249.3	58.50	5.261	
8,300.0	8,244.1	8,317.4	8,280.6	32.1	30.2	72.22	-437.9	-361.7	349.7	236.4	59.26	4.990	
8,400.0	8,344.1	8,416.5	8,378.7	32.4	30.6	73.65	-448.2	-370.8	349.8	223.8	60.02	4.728	
8,500.0	8,444.1	8,515.5	8,476.7	32.7	31.0	75.20	-458.5	-379.9	349.9	211.3	60.80	4.475	
8,600.0	8,544.1	8,614.5	8,574.8	33.0	31.4	76.89	-468.8	-389.1	349.9	199.0	61.59	4.230	
8,700.0	8,644.1	8,713.5	8,672.9	33.3	31.8	78.73	-479.1	-398.2	349.9	186.9	62.40	3.995	
8,800.0	8,744.1	8,812.6	8,770.9	33.6	32.2	80.75	-489.4	-407.4	349.9	175.1	63.22	3.770	
8,900.0	8,844.1	8,911.6	8,869.0	34.0	32.6	82.95	-499.7	-416.5	349.9	163.6	64.06	3.554	
9,000.0	8,944.1	9,006.7	8,963.3	34.3	33.0	85.05	-508.7	-424.5	349.9	153.3	64.91	3.362	
9,100.0	9,044.1	9,102.3	9,058.4	34.6	33.3	86.88	-516.0	-431.0	349.9	145.2	65.72	3.209	
9,200.0	9,144.1	9,198.4	9,154.2	34.9	33.7	88.34	-521.6	-435.9	349.9	139.1	66.49	3.092	
9,300.0	9,244.1	9,294.7	9,250.4	35.2	34.0	89.37	-525.3	-439.2	349.9	134.9	67.21	3.007	
9,400.0	9,344.1	9,391.3	9,347.0	35.5	34.4	89.92	-527.2	-440.9	349.9	132.4	67.87	2.951	
9,474.1	9,418.3	9,463.6	9,419.3	35.8	34.6	90.00	-527.5	-441.2	349.9	131.7	68.33	2.927	
9,500.0	9,444.1	9,489.4	9,445.1	35.8	34.7	90.00	-527.5	-441.2	349.9	131.5	68.50	2.920	
9,600.0	9,544.1	9,589.4	9,545.1	36.2	35.0	90.00	-527.5	-441.2	349.9	130.9	69.16	2.892	
9,700.0	9,644.1	9,689.4	9,645.1	36.5	35.4	90.00	-527.5	-441.2	349.9	130.2	69.83	2.865	
9,800.0	9,744.1	9,789.4	9,745.1	36.8	35.7	90.00	-527.5	-441.2	349.9	129.5	70.49	2.838	
9,900.0	9,844.1	9,889.4	9,845.1	37.1	36.0	90.00	-527.5	-441.2	349.9	128.9	71.15	2.811	

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Rodney Robinson Fed Com #128H
Project:	Antelope Ridge	TVD Reference:	KB @ 3747.5usft
Reference Site:	Rodney Robinson	MD Reference:	KB @ 3747.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Rodney Robinson Fed Com #128H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												Offset Well Error:	0.0 usft
Reference				Offset		Semi Major Axis			Distance				Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
10,000.0	9,944.1	9,989.4	9,945.1	37.4	36.4	90.00	-527.5	-441.2	200.0	128.2	71.82	2.785	
10,082.9	10,027.0	10,072.3	10,028.0	37.7	36.6	90.00	-527.5	-441.2	200.0	127.7	72.37	2.764	
10,100.0	10,044.1	10,089.4	10,045.1	37.8	36.7	87.07	-527.5	-441.2	200.0	127.5	72.49	2.759	
10,150.0	10,094.0	10,139.3	10,095.0	37.9	36.9	88.13	-527.5	-441.2	199.9	127.0	72.88	2.743	
10,192.6	10,136.1	10,181.4	10,137.1	38.0	37.0	90.00	-527.5	-441.2	199.8	126.5	73.26	2.727	
10,200.0	10,143.3	10,188.6	10,144.3	38.0	37.0	90.41	-527.5	-441.2	199.8	126.4	73.33	2.724	
10,250.0	10,191.8	10,237.1	10,192.8	38.2	37.2	93.76	-527.5	-441.2	200.2	126.4	73.83	2.712	
10,300.0	10,239.0	10,284.3	10,240.0	38.3	37.3	97.99	-527.5	-441.2	202.0	127.6	74.38	2.716	
10,350.0	10,284.5	10,329.9	10,285.5	38.4	37.5	102.77	-527.5	-441.2	206.1	131.2	74.93	2.750	
10,400.0	10,328.2	10,373.5	10,329.2	38.4	37.6	107.73	-527.5	-441.2	213.4	137.9	75.46	2.828	
10,450.0	10,369.5	10,414.8	10,370.5	38.5	37.8	112.49	-527.5	-441.2	224.8	148.9	75.91	2.962	
10,500.0	10,408.2	10,453.6	10,409.2	38.5	37.9	116.73	-527.5	-441.2	241.0	164.7	76.26	3.160	
10,550.0	10,444.1	10,489.4	10,445.1	38.5	38.0	120.21	-527.5	-441.2	262.1	185.5	76.51	3.425	
10,600.0	10,476.7	10,522.0	10,477.7	38.6	38.1	122.76	-527.5	-441.2	288.0	211.3	76.66	3.757	
10,650.0	10,505.9	10,551.3	10,506.9	38.6	38.2	124.27	-527.5	-441.2	318.4	241.7	76.73	4.150	
10,700.0	10,531.5	10,576.9	10,532.5	38.5	38.3	124.62	-527.5	-441.2	352.9	276.2	76.75	4.598	
10,750.0	10,553.3	10,601.4	10,554.3	38.5	38.4	123.62	-527.5	-441.2	390.9	314.1	76.74	5.093	
10,800.0	10,571.0	10,616.4	10,572.0	38.5	38.4	121.01	-527.5	-441.2	431.7	355.0	76.69	5.629	
10,850.0	10,584.6	10,630.0	10,585.6	38.4	38.5	116.37	-527.5	-441.2	474.8	398.2	76.63	6.197	
10,900.0	10,594.0	10,639.3	10,595.0	38.4	38.5	109.10	-527.5	-441.2	519.8	443.2	76.56	6.790	
10,950.0	10,599.0	10,644.4	10,600.0	38.4	38.5	98.65	-527.5	-441.2	566.0	489.5	76.48	7.401	
10,982.9	10,600.0	10,645.3	10,601.0	38.3	38.5	90.00	-527.5	-441.2	596.9	520.5	76.42	7.810	
11,000.0	10,599.9	10,645.3	10,600.9	38.3	38.5	89.73	-527.5	-441.2	613.1	536.7	76.40	8.025	
11,100.0	10,599.3	10,644.6	10,600.3	38.2	38.5	87.52	-527.5	-441.2	709.0	632.7	76.26	9.296	
11,168.3	10,598.3	10,643.7	10,599.3	38.2	38.5	85.22	-527.5	-441.2	775.5	699.3	76.19	10.178	
11,200.0	10,597.8	10,643.1	10,598.8	38.3	38.5	85.02	-527.5	-441.2	806.5	730.4	76.17	10.589	
11,300.0	10,596.0	12,162.3	11,448.1	38.6	41.7	179.54	371.6	-601.9	851.1	818.3	32.85	25.910	
11,400.0	10,594.3	12,264.8	11,446.8	39.1	42.2	179.90	473.9	-608.3	851.6	818.1	33.50	25.421	
11,500.0	10,592.5	12,367.5	11,445.2	39.6	42.7	-179.98	576.5	-611.1	851.7	817.5	34.27	24.856	
11,505.0	10,592.5	12,372.7	11,445.1	39.6	42.7	-179.98	581.7	-611.1	851.7	817.4	34.31	24.826	
11,600.0	10,590.8	12,467.5	11,443.4	40.1	43.2	-179.98	676.5	-612.0	851.7	816.7	35.08	24.283	
11,700.0	10,589.1	12,567.5	11,441.7	40.7	43.8	-179.98	776.4	-613.0	851.7	815.8	35.93	23.703	
11,800.0	10,587.3	12,667.5	11,439.9	41.4	44.5	-179.98	876.4	-614.0	851.7	814.9	36.84	23.121	
11,900.0	10,585.6	12,767.5	11,438.2	42.1	45.2	-179.98	976.4	-615.0	851.7	814.0	37.79	22.540	
12,000.0	10,583.8	12,867.5	11,436.4	42.9	45.9	-179.98	1,076.4	-616.0	851.7	813.0	38.78	21.966	
12,100.0	10,582.1	12,967.5	11,434.7	43.7	46.7	-179.98	1,176.4	-617.0	851.7	811.9	39.80	21.400	
12,200.0	10,580.3	13,067.5	11,432.9	44.6	47.6	-179.98	1,276.3	-618.0	851.8	810.9	40.86	20.844	
12,300.0	10,578.6	13,167.5	11,431.2	45.5	48.5	-179.98	1,376.3	-619.0	851.8	809.8	41.95	20.302	
12,400.0	10,576.8	13,267.5	11,429.5	46.4	49.4	-179.98	1,476.3	-620.0	851.8	808.7	43.08	19.773	
12,500.0	10,575.1	13,367.5	11,427.7	47.4	50.3	-179.98	1,576.3	-621.0	851.8	807.5	44.23	19.259	
12,600.0	10,573.3	13,467.5	11,426.0	48.4	51.3	-179.98	1,676.3	-622.0	851.8	806.4	45.40	18.761	
12,700.0	10,571.6	13,567.5	11,424.2	49.4	52.3	-179.98	1,776.2	-623.0	851.8	805.2	46.60	18.279	
12,800.0	10,569.9	13,667.5	11,422.5	50.5	53.4	-179.98	1,876.2	-624.0	851.8	803.9	47.82	17.814	
12,900.0	10,568.1	13,767.5	11,420.7	51.6	54.5	-179.98	1,976.2	-625.0	851.8	802.7	49.05	17.364	
13,000.0	10,566.4	13,867.5	11,419.0	52.8	55.6	-179.98	2,076.2	-626.0	851.8	801.5	50.31	16.930	
13,100.0	10,564.6	13,967.5	11,417.2	53.9	56.7	-179.98	2,176.2	-627.0	851.8	800.2	51.58	16.512	
13,200.0	10,562.9	14,067.5	11,415.5	55.1	57.9	-179.98	2,276.1	-627.9	851.8	798.9	52.87	16.109	
13,300.0	10,561.1	14,167.5	11,413.8	56.3	59.1	-179.98	2,376.1	-628.9	851.8	797.6	54.18	15.721	
13,400.0	10,559.4	14,267.5	11,412.0	57.6	60.3	-179.98	2,476.1	-629.9	851.8	796.3	55.50	15.348	
13,500.0	10,557.6	14,367.5	11,410.3	58.8	61.5	-179.98	2,576.1	-630.9	851.8	794.9	56.83	14.989	
13,600.0	10,555.9	14,467.5	11,408.5	60.1	62.7	-179.98	2,676.1	-631.9	851.8	793.6	58.17	14.643	
13,700.0	10,554.1	14,567.5	11,406.8	61.4	64.0	-179.98	2,776.0	-632.9	851.8	792.2	59.52	14.310	

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Rodney Robinson Fed Com #128H
Project:	Antelope Ridge	TVD Reference:	KB @ 3747.5usft
Reference Site:	Rodney Robinson	MD Reference:	KB @ 3747.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Rodney Robinson Fed Com #128H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft	
Survey Program: 0-MWD													Offset Well Error:		0.0 usft
Reference				Offset			Semi Major Axis			Distance			Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Tooface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
13,800.0	10,552.4	14,667.5	11,405.0	62.7	65.3	-179.98	2,876.0	-633.9	851.8	790.9	60.89	13.989			
13,900.0	10,550.6	14,767.5	11,403.3	64.0	66.6	-179.98	2,976.0	-634.9	851.8	789.5	62.26	13.680			
14,000.0	10,548.9	14,867.5	11,401.5	65.4	67.9	-179.98	3,076.0	-635.9	851.8	788.1	63.65	13.383			
14,100.0	10,547.2	14,967.5	11,399.8	66.7	69.2	-179.99	3,176.0	-636.9	851.8	786.7	65.04	13.097			
14,200.0	10,545.4	15,067.5	11,398.1	68.1	70.6	-179.99	3,275.9	-637.9	851.8	785.3	66.44	12.821			
14,300.0	10,543.7	15,167.5	11,396.3	69.5	71.9	-179.99	3,375.9	-638.9	851.8	783.9	67.84	12.555			
14,400.0	10,541.9	15,267.5	11,394.6	70.9	73.3	-179.99	3,475.9	-639.9	851.8	782.5	69.26	12.299			
14,500.0	10,540.2	15,367.5	11,392.8	72.3	74.7	-179.99	3,575.9	-640.9	851.8	781.1	70.68	12.052			
14,600.0	10,538.4	15,467.5	11,391.1	73.7	76.1	-179.99	3,675.9	-641.9	851.8	779.7	72.10	11.813			
14,700.0	10,536.7	15,567.5	11,389.3	75.1	77.5	-179.99	3,775.8	-642.9	851.8	778.2	73.53	11.583			
14,800.0	10,534.9	15,667.5	11,387.6	76.5	78.9	-179.99	3,875.8	-643.8	851.8	776.8	74.97	11.361			
14,900.0	10,533.2	15,767.5	11,385.8	78.0	80.3	-179.99	3,975.8	-644.8	851.8	775.4	76.42	11.147			
15,000.0	10,531.4	15,867.5	11,384.1	79.4	81.7	-179.99	4,075.8	-645.8	851.8	773.9	77.86	10.940			
15,100.0	10,529.7	15,967.5	11,382.4	80.9	83.2	-179.99	4,175.8	-646.8	851.8	772.5	79.32	10.739			
15,200.0	10,527.9	16,067.5	11,380.6	82.4	84.6	-179.99	4,275.7	-647.8	851.8	771.0	80.77	10.546			
15,300.0	10,526.2	16,167.5	11,378.9	83.8	86.1	-179.99	4,375.7	-648.8	851.8	769.6	82.23	10.358			
15,400.0	10,524.5	16,267.5	11,377.1	85.3	87.5	-179.99	4,475.7	-649.8	851.8	768.1	83.70	10.177			
15,500.0	10,522.7	16,367.5	11,375.4	86.8	89.0	-179.99	4,575.7	-650.8	851.8	766.6	85.17	10.002			
15,600.0	10,521.0	16,467.5	11,373.6	88.3	90.5	-179.99	4,675.7	-651.8	851.8	765.2	86.64	9.832			
15,700.0	10,519.2	16,567.5	11,371.9	89.8	92.0	-179.99	4,775.6	-652.8	851.8	763.7	88.11	9.667			
15,800.0	10,517.5	16,667.5	11,370.1	91.3	93.4	-179.99	4,875.6	-653.8	851.8	762.2	89.59	9.508			
15,900.0	10,515.7	16,767.5	11,368.4	92.8	94.9	-179.99	4,975.6	-654.8	851.8	760.7	91.07	9.353			
16,000.0	10,514.0	16,867.5	11,366.7	94.3	96.4	-179.99	5,075.6	-655.8	851.8	759.2	92.56	9.203			
16,100.0	10,512.2	16,967.5	11,364.9	95.8	97.9	-179.99	5,175.6	-656.8	851.8	757.8	94.05	9.057			
16,200.0	10,510.5	17,067.5	11,363.2	97.3	99.4	-179.99	5,275.5	-657.8	851.8	756.3	95.54	8.916			
16,300.0	10,508.7	17,167.5	11,361.4	98.9	101.0	-179.99	5,375.5	-658.8	851.8	754.8	97.03	8.779			
16,400.0	10,507.0	17,267.5	11,359.7	100.4	102.5	-179.99	5,475.5	-659.7	851.8	753.3	98.52	8.646			
16,500.0	10,505.3	17,367.5	11,357.9	101.9	104.0	-179.99	5,575.5	-660.7	851.8	751.8	100.02	8.516			
16,600.0	10,503.5	17,467.5	11,356.2	103.5	105.5	-179.99	5,675.5	-661.7	851.8	750.3	101.52	8.391			
16,700.0	10,501.8	17,567.5	11,354.4	105.0	107.0	-179.99	5,775.4	-662.7	851.8	748.8	103.02	8.268			
16,800.0	10,500.0	17,667.5	11,352.7	106.6	108.6	-179.99	5,875.4	-663.7	851.8	747.3	104.52	8.149			
16,900.0	10,498.3	17,767.5	11,351.0	108.1	110.1	-179.99	5,975.4	-664.7	851.8	745.8	106.03	8.034			
17,000.0	10,496.5	17,867.5	11,349.2	109.7	111.6	-179.99	6,075.4	-665.7	851.8	744.3	107.54	7.921			
17,100.0	10,494.8	17,967.5	11,347.5	111.2	113.2	-179.99	6,175.4	-666.7	851.8	742.8	109.04	7.812			
17,200.0	10,493.0	18,067.5	11,345.7	112.8	114.7	-179.99	6,275.3	-667.7	851.8	741.3	110.56	7.705			
17,300.0	10,491.3	18,167.5	11,344.0	114.3	116.3	-179.99	6,375.3	-668.7	851.8	739.8	112.07	7.601			
17,400.0	10,489.5	18,267.5	11,342.2	115.9	117.8	-179.99	6,475.3	-669.7	851.8	738.2	113.58	7.500			
17,500.0	10,487.8	18,367.5	11,340.5	117.5	119.4	-179.99	6,575.3	-670.7	851.8	736.7	115.10	7.401			
17,600.0	10,486.0	18,467.5	11,338.7	119.0	120.9	-179.99	6,675.3	-671.7	851.8	735.2	116.61	7.305			
17,700.0	10,484.3	18,567.5	11,337.0	120.6	122.5	-179.99	6,775.2	-672.7	851.8	733.7	118.13	7.211			
17,800.0	10,482.6	18,667.5	11,335.3	122.2	124.1	-179.99	6,875.2	-673.7	851.8	732.2	119.65	7.119			
17,900.0	10,480.8	18,767.5	11,333.5	123.7	125.6	-179.99	6,975.2	-674.7	851.8	730.7	121.17	7.030			
18,000.0	10,479.1	18,867.5	11,331.8	125.3	127.2	-179.99	7,075.2	-675.6	851.8	729.1	122.69	6.943			
18,100.0	10,477.3	18,967.5	11,330.0	126.9	128.8	-179.99	7,175.2	-676.6	851.8	727.6	124.22	6.858			
18,200.0	10,475.6	19,067.5	11,328.3	128.5	130.3	-179.99	7,275.1	-677.6	851.8	726.1	125.74	6.775			
18,300.0	10,473.8	19,167.5	11,326.5	130.1	131.9	-179.99	7,375.1	-678.6	851.8	724.6	127.26	6.693			
18,400.0	10,472.1	19,267.5	11,324.8	131.7	133.5	-180.00	7,475.1	-679.6	851.8	723.0	128.79	6.614			
18,500.0	10,470.3	19,367.5	11,323.0	133.2	135.1	-180.00	7,575.1	-680.6	851.8	721.5	130.32	6.537			
18,600.0	10,468.6	19,467.5	11,321.3	134.8	136.6	-180.00	7,675.1	-681.6	851.8	720.0	131.85	6.461			
18,700.0	10,466.8	19,567.5	11,319.5	136.4	138.2	-180.00	7,775.0	-682.6	851.8	718.5	133.38	6.387			
18,800.0	10,465.1	19,667.5	11,317.8	138.0	139.8	-180.00	7,875.0	-683.6	851.8	716.9	134.91	6.314			
18,900.0	10,463.3	19,767.5	11,316.1	139.6	141.4	-180.00	7,975.0	-684.6	851.8	715.4	136.44	6.243			

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Rodney Robinson Fed Com #128H
Project:	Antelope Ridge	TVD Reference:	KB @ 3747.5usft
Reference Site:	Rodney Robinson	MD Reference:	KB @ 3747.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Rodney Robinson Fed Com #128H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance					Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)		Separation Factor
19,000.0	10,461.6	19,867.5	11,314.3	141.2	143.0	-180.00	8,075.0	-685.6	851.8	713.9	137.97	6.174	
19,100.0	10,459.9	19,967.5	11,312.6	142.8	144.6	-180.00	8,175.0	-686.6	851.8	712.3	139.50	6.106	
19,200.0	10,458.1	20,067.5	11,310.8	144.4	146.2	-180.00	8,274.9	-687.6	851.8	710.8	141.04	6.040	
19,300.0	10,456.4	20,167.5	11,309.1	146.0	147.8	-180.00	8,374.9	-688.6	851.8	709.3	142.57	5.975	
19,400.0	10,454.6	20,267.5	11,307.3	147.6	149.3	-180.00	8,474.9	-689.6	851.8	707.7	144.10	5.911	
19,500.0	10,452.9	20,367.5	11,305.6	149.2	150.9	-180.00	8,574.9	-690.6	851.8	706.2	145.64	5.849	
19,600.0	10,451.1	20,467.5	11,303.8	150.8	152.5	-180.00	8,674.8	-691.5	851.8	704.7	147.18	5.788	
19,700.0	10,449.4	20,567.5	11,302.1	152.4	154.1	-180.00	8,774.8	-692.5	851.9	703.1	148.71	5.728	
19,800.0	10,447.6	20,667.5	11,300.4	154.0	155.7	-180.00	8,874.8	-693.5	851.9	701.6	150.25	5.669	
19,900.0	10,445.9	20,767.5	11,298.6	155.6	157.3	-180.00	8,974.8	-694.5	851.9	700.1	151.79	5.612	
20,000.0	10,444.1	20,867.5	11,296.9	157.2	158.9	-180.00	9,074.8	-695.5	851.9	698.5	153.33	5.556	
20,100.0	10,442.4	20,967.5	11,295.1	158.8	160.5	-180.00	9,174.7	-696.5	851.9	697.0	154.87	5.500	
20,200.0	10,440.7	21,067.5	11,293.4	160.4	162.1	-180.00	9,274.7	-697.5	851.9	695.4	156.41	5.446	
20,300.0	10,438.9	21,167.5	11,291.6	162.0	163.7	-180.00	9,374.7	-698.5	851.9	693.9	157.95	5.393	
20,400.0	10,437.2	21,267.5	11,289.9	163.6	165.3	-180.00	9,474.7	-699.5	851.9	692.4	159.49	5.341	
20,500.0	10,435.4	21,367.5	11,288.1	165.3	166.9	180.00	9,574.7	-700.5	851.9	690.8	161.03	5.290	
20,600.0	10,433.7	21,467.5	11,286.4	166.9	168.5	180.00	9,674.6	-701.5	851.9	689.3	162.58	5.240	
20,700.0	10,431.9	21,567.5	11,284.7	168.5	170.2	180.00	9,774.6	-702.5	851.9	687.7	164.12	5.190	
20,800.0	10,430.2	21,667.5	11,282.9	170.1	171.8	180.00	9,874.6	-703.5	851.9	686.2	165.66	5.142	
20,801.0	10,430.2	21,668.4	11,282.9	170.1	171.8	180.00	9,875.6	-703.5	851.9	686.2	165.68	5.142	
20,867.4	10,429.0	21,719.8	11,282.0	171.2	172.6	180.00	9,926.9	-704.0	852.0	685.6	166.38	5.121	

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Rodney Robinson Fed Com #128H
Project:	Antelope Ridge	TVD Reference:	KB @ 3747.5usft
Reference Site:	Rodney Robinson	MD Reference:	KB @ 3747.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Rodney Robinson Fed Com #128H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 16-MWD													Offset Well Error:	0.0 usft
Reference				Offset		Semi Major Axis			Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	96.97	-28.2	230.3	232.0					
100.0	100.0	99.6	99.6	0.1	0.1	96.93	-28.0	230.3	232.0	231.8	0.26	894.317		
200.0	200.0	200.6	200.6	0.5	0.4	96.91	-27.9	230.4	232.1	231.1	0.94	247.845		
300.0	300.0	302.1	302.1	0.8	0.8	97.13	-28.7	229.7	231.5	229.8	1.65	140.252		
400.0	400.0	403.9	403.9	1.2	1.2	97.55	-30.2	228.2	230.2	227.8	2.37	97.002		
500.0	500.0	501.8	501.7	1.6	1.5	98.06	-32.1	226.4	228.6	225.5	3.08	74.320		
537.2	537.2	537.3	537.2	1.7	1.6	98.25	-32.8	226.1	228.5	225.1	3.34	68.504	CC	
600.0	600.0	597.8	597.7	1.9	1.9	98.55	-34.0	226.3	228.8	225.1	3.78	60.606	ES	
700.0	700.0	697.5	697.4	2.3	2.2	99.18	-36.7	227.2	230.2	225.7	4.49	51.275		
800.0	800.0	797.0	796.8	2.6	2.6	99.78	-39.3	227.7	231.1	225.9	5.20	44.434		
900.0	900.0	895.0	894.8	3.0	2.9	100.03	-40.6	229.4	233.0	227.1	5.91	39.462		
1,000.0	1,000.0	996.8	996.6	3.4	3.3	100.27	-41.9	231.3	235.1	228.5	6.62	35.513		
1,100.0	1,100.0	1,095.9	1,095.7	3.7	3.6	100.16	-41.7	232.8	236.5	229.2	7.32	32.313		
1,200.0	1,200.0	1,194.8	1,194.6	4.1	4.0	100.03	-41.6	234.9	238.6	230.6	8.02	29.742		
1,300.0	1,300.0	1,294.8	1,294.5	4.4	4.3	99.74	-40.8	237.6	241.1	232.4	8.73	27.622		
1,400.0	1,400.0	1,395.1	1,394.8	4.8	4.6	99.18	-38.8	240.0	243.1	233.7	9.43	25.774		
1,500.0	1,500.0	1,496.2	1,495.8	5.1	5.0	98.73	-37.2	242.5	245.4	235.2	10.14	24.187		
1,600.0	1,600.0	1,601.2	1,600.8	5.5	5.4	-131.89	-37.7	243.2	246.7	235.8	10.86	22.722		
1,700.0	1,700.0	1,702.8	1,702.3	5.8	5.7	-131.55	-41.0	242.0	247.7	236.2	11.54	21.459		
1,800.0	1,799.9	1,803.4	1,802.8	6.2	6.1	-130.90	-46.8	239.9	249.5	237.3	12.24	20.393		
1,900.0	1,899.7	1,902.9	1,902.0	6.5	6.4	-130.29	-53.7	237.7	252.5	239.6	12.93	19.527		
2,000.0	1,999.4	2,003.9	2,002.8	6.8	6.8	-130.07	-60.3	235.4	256.5	242.8	13.64	18.808		
2,100.0	2,098.9	2,105.0	2,103.6	7.2	7.2	-130.23	-66.4	232.6	261.1	246.7	14.34	18.199		
2,200.0	2,198.3	2,205.6	2,204.0	7.5	7.5	-130.70	-72.3	229.6	266.5	251.4	15.06	17.699		
2,300.0	2,297.4	2,308.3	2,306.3	7.9	7.9	-131.17	-79.5	225.7	272.5	256.7	15.78	17.267		
2,400.0	2,396.4	2,411.9	2,409.4	8.3	8.3	-131.31	-88.9	219.9	277.6	261.1	16.52	16.808		
2,500.0	2,495.5	2,514.2	2,510.8	8.7	8.7	-130.93	-100.4	212.8	281.8	264.5	17.26	16.322		
2,600.0	2,594.5	2,614.9	2,610.2	9.0	9.1	-130.10	-113.9	204.7	285.3	267.3	18.02	15.831		
2,700.0	2,693.5	2,715.5	2,709.6	9.4	9.5	-129.28	-127.5	196.5	288.7	269.9	18.79	15.368		
2,800.0	2,792.5	2,816.1	2,809.0	9.8	9.9	-128.51	-140.9	188.1	291.8	272.3	19.56	14.922		
2,900.0	2,891.6	2,916.1	2,907.7	10.2	10.2	-127.76	-154.1	179.5	294.9	274.5	20.34	14.501		
3,000.0	2,990.6	3,015.1	3,005.5	10.6	10.6	-127.12	-166.8	171.2	298.1	277.0	21.12	14.118		
3,100.0	3,089.6	3,114.0	3,103.3	11.0	11.0	-126.56	-179.2	163.4	301.7	279.8	21.90	13.777		
3,200.0	3,188.6	3,214.1	3,202.3	11.4	11.4	-126.02	-191.7	155.6	305.5	282.8	22.69	13.464		
3,300.0	3,287.7	3,307.0	3,294.3	11.8	11.8	-125.53	-203.6	149.3	310.3	286.9	23.46	13.229		
3,400.0	3,386.7	3,403.7	3,389.9	12.2	12.2	-124.98	-216.7	144.2	316.9	292.6	24.24	13.070		
3,500.0	3,485.7	3,503.3	3,488.5	12.6	12.6	-124.51	-229.9	139.6	323.9	298.9	25.04	12.935		
3,600.0	3,584.8	3,601.4	3,585.7	13.0	13.0	-124.19	-242.4	135.5	331.3	305.4	25.83	12.826		
3,700.0	3,683.8	3,702.0	3,685.5	13.4	13.4	-123.99	-254.5	131.5	338.7	312.1	26.63	12.720		
3,800.0	3,782.8	3,802.5	3,785.4	13.8	13.8	-124.01	-266.4	127.7	346.0	318.6	27.42	12.617		
3,900.0	3,881.8	3,907.5	3,889.7	14.2	14.2	-123.96	-276.9	123.0	352.6	324.3	28.24	12.484		
4,000.0	3,980.9	4,014.3	3,995.5	14.6	14.7	-123.78	-288.7	115.6	358.8	327.8	29.07	12.277		
4,100.0	4,079.9	4,110.8	4,091.3	15.0	15.1	-123.70	-298.8	108.6	366.0	330.8	29.85	12.081		
4,200.0	4,178.9	4,201.5	4,181.3	15.4	15.4	-123.75	-308.1	103.9	366.4	335.8	30.60	11.974		
4,300.0	4,277.9	4,292.8	4,272.1	15.8	15.8	-123.87	-317.6	101.7	374.9	343.5	31.34	11.963		
4,400.0	4,377.0	4,390.2	4,368.9	16.3	16.2	-124.02	-328.0	100.8	384.8	352.7	32.11	11.984		
4,500.0	4,476.0	4,495.9	4,474.1	16.7	16.6	-124.16	-339.3	99.1	394.1	361.2	32.94	11.965		
4,600.0	4,575.0	4,599.9	4,577.3	17.1	17.0	-124.16	-350.7	95.5	401.7	367.9	33.76	11.897		
4,700.0	4,674.0	4,700.0	4,676.7	17.5	17.4	-124.19	-361.4	91.8	408.9	374.4	34.56	11.832		
4,800.0	4,773.1	4,797.4	4,773.6	17.9	17.8	-124.29	-371.3	88.4	416.3	381.0	35.34	11.780		
4,900.0	4,872.1	4,912.2	4,887.8	18.3	18.2	-124.48	-382.2	83.6	422.9	386.7	36.20	11.680		
5,000.0	4,971.1	5,009.2	4,984.3	18.7	18.6	-124.77	-389.9	77.9	427.3	390.3	36.97	11.557		

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Rodney Robinson Fed Com #128H
Project:	Antelope Ridge	TVD Reference:	KB @ 3747.5usft
Reference Site:	Rodney Robinson	MD Reference:	KB @ 3747.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Rodney Robinson Fed Com #128H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 16-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.0	5,070.2	5,105.6	5,080.3	19.2	19.0	-125.20	-396.7	73.3	432.6	394.9	37.73	11.465		
5,200.0	5,169.2	5,203.9	5,178.4	19.6	19.4	-125.76	-402.9	69.4	438.5	400.0	38.49	11.394		
5,300.0	5,268.2	5,308.8	5,283.1	20.0	19.7	-126.42	-408.6	64.9	444.0	404.7	39.26	11.309		
5,400.0	5,367.2	5,411.4	5,385.4	20.4	20.1	-127.12	-413.6	59.7	448.5	408.5	40.02	11.207		
5,500.0	5,466.3	5,509.4	5,483.2	20.8	20.5	-127.78	-418.3	54.8	453.2	412.5	40.76	11.118		
5,600.0	5,565.3	5,609.9	5,583.4	21.2	20.9	-128.51	-422.5	49.8	457.9	416.4	41.51	11.033		
5,700.0	5,664.3	5,708.4	5,681.7	21.6	21.2	-129.28	-426.1	45.2	462.8	420.6	42.24	10.958		
5,800.0	5,763.3	5,806.0	5,779.2	22.1	21.6	-130.06	-429.6	40.9	468.2	425.2	42.96	10.898		
5,900.0	5,862.4	5,904.3	5,877.4	22.5	21.9	-130.84	-433.0	37.1	474.0	430.4	43.68	10.852		
6,000.0	5,961.4	6,003.4	5,976.3	22.9	22.3	-131.64	-436.2	33.4	480.1	435.7	44.40	10.811		
6,100.0	6,060.4	6,102.8	6,075.6	23.3	22.6	-132.48	-439.0	29.9	486.4	441.3	45.12	10.779		
6,200.0	6,159.4	6,202.8	6,175.5	23.7	23.0	-133.33	-441.5	26.4	492.7	446.8	45.84	10.748		
6,300.0	6,258.5	6,302.8	6,275.5	24.2	23.4	-134.17	-443.9	22.7	499.0	452.5	46.55	10.720		
6,400.0	6,357.5	6,400.2	6,372.8	24.6	23.7	-135.00	-445.9	19.3	505.5	458.3	47.25	10.699		
6,500.0	6,456.5	6,498.3	6,470.8	25.0	24.0	-135.80	-448.2	16.3	512.6	464.7	47.95	10.691		
6,600.0	6,555.6	6,598.0	6,570.5	25.4	24.4	-136.59	-450.5	13.3	519.9	471.2	48.66	10.684		
6,700.0	6,654.6	6,690.3	6,662.6	25.8	24.7	-137.32	-452.5	11.0	527.8	478.5	49.32	10.700		
6,800.0	6,753.6	6,784.8	6,757.2	26.3	25.1	-138.15	-453.6	10.0	537.1	487.1	49.99	10.746		
6,900.0	6,852.6	6,884.4	6,856.7	26.7	25.4	-139.05	-454.3	9.4	547.0	496.3	50.68	10.793		
7,000.0	6,951.7	6,984.6	6,957.0	27.1	25.8	-139.90	-455.1	8.5	556.7	505.4	51.37	10.837		
7,100.0	7,050.7	7,083.3	7,055.6	27.5	26.1	-140.73	-455.8	7.6	566.6	514.5	52.06	10.883		
7,200.0	7,149.7	7,184.3	7,156.7	27.9	26.4	-141.55	-456.5	6.6	576.4	523.7	52.76	10.925		
7,300.0	7,248.7	7,283.4	7,255.8	28.4	26.8	-142.33	-457.2	5.4	586.2	532.8	53.45	10.968		
7,400.0	7,347.8	7,382.7	7,355.1	28.8	27.1	-143.08	-458.0	4.2	596.1	542.0	54.14	11.011		
7,500.0	7,446.8	7,485.4	7,457.7	29.2	27.5	-143.81	-458.9	2.7	605.9	551.0	54.86	11.044		
7,598.2	7,544.1	7,584.5	7,556.8	29.6	27.8	-144.48	-460.0	0.8	615.0	559.4	55.55	11.071		
7,600.0	7,545.8	7,586.2	7,558.5	29.6	27.8	-144.49	-460.0	0.7	615.1	559.6	55.56	11.071		
7,700.0	7,645.0	7,682.3	7,654.5	30.0	28.2	-145.14	-461.0	-0.9	623.7	567.5	56.23	11.091		
7,800.0	7,744.5	7,779.7	7,751.9	30.4	28.5	-145.63	-461.8	-2.1	630.5	573.6	56.91	11.079		
7,900.0	7,844.3	7,876.5	7,848.8	30.8	28.9	-145.98	-462.6	-3.0	635.7	578.1	57.58	11.040		
8,000.0	7,944.1	7,975.7	7,947.9	31.2	29.2	-146.18	-463.3	-3.5	639.1	580.8	58.27	10.967		
8,100.0	8,044.1	8,076.6	8,048.9	31.5	29.5	-146.23	-464.2	-4.1	640.1	581.2	58.98	10.854		
8,131.5	8,075.7	8,108.1	8,080.4	31.6	29.7	84.35	-464.5	-4.3	640.0	580.8	59.19	10.813		
8,200.0	8,144.1	8,174.6	8,146.8	31.8	29.9	84.38	-464.9	-4.7	639.6	580.0	59.63	10.726		
8,300.0	8,244.1	8,272.0	8,244.2	32.1	30.2	84.33	-464.4	-4.9	639.4	579.2	60.25	10.613		
8,400.0	8,344.1	8,373.9	8,346.2	32.4	30.5	84.23	-463.2	-5.1	639.4	578.5	60.90	10.498		
8,500.0	8,444.1	8,476.9	8,449.2	32.7	30.9	84.14	-462.3	-5.8	638.8	577.2	61.57	10.375		
8,600.0	8,544.1	8,574.3	8,546.5	33.0	31.2	84.05	-461.3	-6.6	638.1	575.9	62.19	10.260		
8,700.0	8,644.1	8,672.1	8,644.3	33.3	31.5	83.94	-460.2	-6.8	637.9	575.1	62.81	10.157		
8,800.0	8,744.1	8,774.7	8,746.9	33.6	31.8	83.84	-459.1	-7.1	637.8	574.3	63.47	10.048		
8,900.0	8,844.1	8,877.5	8,849.7	34.0	32.2	83.74	-458.1	-7.9	637.1	573.0	64.14	9.933		
9,000.0	8,944.1	8,982.0	8,954.2	34.3	32.5	83.66	-457.3	-9.3	635.9	571.1	64.83	9.809		
9,100.0	9,044.1	9,086.2	9,058.4	34.6	32.9	83.59	-456.8	-11.4	634.0	568.4	65.51	9.677		
9,200.0	9,144.1	9,172.7	9,144.9	34.9	33.1	83.54	-456.3	-12.3	632.9	566.8	66.07	9.579		
9,240.5	9,184.6	9,212.4	9,184.6	35.0	33.3	83.52	-456.1	-12.4	632.9	566.5	66.33	9.541		
9,300.0	9,244.1	9,270.8	9,243.0	35.2	33.5	83.47	-455.5	-12.4	632.9	566.2	66.71	9.488		
9,400.0	9,344.1	9,369.7	9,341.8	35.5	33.8	83.33	-453.9	-12.3	633.2	565.9	67.34	9.403		
9,500.0	9,444.1	9,471.9	9,444.0	35.8	34.1	83.16	-452.0	-12.3	633.4	565.4	68.00	9.314		
9,600.0	9,544.1	9,571.7	9,543.9	36.2	34.4	83.03	-450.6	-12.4	633.5	564.8	68.65	9.228		
9,700.0	9,644.1	9,674.9	9,647.0	36.5	34.8	82.91	-449.3	-12.8	633.3	563.9	69.32	9.135		
9,800.0	9,744.1	9,775.7	9,747.8	36.8	35.1	82.76	-447.8	-13.7	632.6	562.6	69.98	9.039		
9,876.8	9,820.9	9,848.8	9,820.9	37.0	35.3	82.65	-446.6	-14.0	632.4	561.9	70.46	8.975		

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Rodney Robinson Fed Com #128H
Project:	Antelope Ridge	TVD Reference:	KB @ 3747.5usft
Reference Site:	Rodney Robinson	MD Reference:	KB @ 3747.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Rodney Robinson Fed Com #128H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 16-MWD												Offset Well Error:	0.0 usft
Reference				Offset		Semi Major Axis			Distance				Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
9,900.0	9,844.1	9,870.7	9,842.8	37.1	35.4	82.62	-446.3	-14.1	632.4	561.8	70.60	8.958	
10,000.0	9,944.1	9,968.2	9,940.3	37.4	35.7	82.50	-444.9	-13.7	633.0	561.7	71.23	8.886	
10,082.9	10,027.0	10,049.2	10,021.2	37.7	36.0	82.38	-443.5	-13.4	633.4	561.7	71.75	8.828	
10,100.0	10,044.1	10,064.4	10,036.4	37.8	36.0	79.37	-443.3	-13.3	633.5	561.7	71.84	8.818	
10,150.0	10,094.0	10,108.6	10,080.6	37.9	36.2	79.60	-442.7	-12.6	633.7	561.6	72.12	8.787	
10,200.0	10,143.3	10,154.0	10,126.1	38.0	36.3	80.23	-442.2	-11.6	633.5	561.1	72.42	8.748	
10,250.0	10,191.8	10,199.1	10,171.1	38.2	36.5	81.24	-441.8	-10.3	633.0	560.3	72.72	8.705	
10,300.0	10,239.0	10,247.1	10,219.0	38.3	36.6	82.71	-441.4	-8.7	632.3	559.3	73.07	8.653	
10,350.0	10,284.5	10,295.3	10,267.3	38.4	36.8	84.55	-441.0	-7.3	631.5	558.0	73.44	8.598	
10,400.0	10,328.2	10,339.9	10,311.8	38.4	36.9	86.55	-440.6	-6.1	630.8	557.0	73.79	8.549	
10,419.0	10,344.1	10,356.0	10,327.9	38.4	37.0	87.34	-440.5	-5.7	630.7	556.8	73.92	8.533	
10,450.0	10,369.5	10,381.6	10,353.5	38.5	37.1	88.64	-440.2	-5.0	631.0	556.8	74.12	8.512	
10,500.0	10,408.2	10,422.1	10,394.0	38.5	37.2	90.79	-439.8	-4.0	632.3	557.9	74.46	8.492 SF	
10,550.0	10,444.1	10,460.8	10,432.6	38.5	37.3	92.90	-439.5	-3.2	635.3	560.6	74.79	8.495	
10,600.0	10,476.7	10,496.0	10,467.8	38.6	37.4	94.76	-439.2	-2.6	640.5	565.4	75.09	8.529	
10,650.0	10,505.9	10,527.0	10,498.9	38.6	37.5	96.22	-438.9	-2.1	648.1	572.8	75.35	8.601	
10,700.0	10,531.5	10,554.2	10,526.1	38.5	37.6	97.21	-438.7	-1.8	658.8	583.2	75.59	8.716	
10,750.0	10,553.3	10,577.5	10,549.4	38.5	37.7	97.63	-438.5	-1.5	672.6	596.8	75.78	8.876	
10,800.0	10,571.0	10,596.7	10,568.5	38.5	37.8	97.42	-438.4	-1.4	689.6	613.7	75.92	9.083	
10,850.0	10,584.6	10,611.6	10,583.5	38.4	37.8	96.49	-438.2	-1.3	709.9	633.9	76.03	9.337	
10,900.0	10,594.0	10,622.1	10,593.9	38.4	37.8	94.77	-438.1	-1.2	733.3	657.2	76.09	9.637	
10,950.0	10,599.0	10,627.9	10,599.8	38.4	37.9	92.23	-438.1	-1.2	759.4	683.3	76.11	9.978	
10,982.9	10,600.0	10,629.2	10,601.0	38.3	37.9	90.10	-438.1	-1.2	778.0	701.9	76.10	10.223	
11,000.0	10,599.9	10,629.3	10,601.2	38.3	37.9	90.04	-438.1	-1.2	788.0	711.9	76.09	10.356	
11,100.0	10,599.3	10,629.5	10,601.3	38.2	37.9	89.58	-438.1	-1.2	852.8	776.8	76.03	11.216	
11,168.3	10,598.3	10,629.0	10,600.9	38.2	37.9	89.12	-438.1	-1.2	902.1	826.1	75.98	11.872	
11,200.0	10,597.8	10,628.7	10,600.5	38.3	37.9	89.09	-438.1	-1.2	926.0	850.0	75.96	12.191	
11,300.0	10,596.0	10,627.6	10,599.5	38.6	37.9	88.99	-438.1	-1.2	1,004.3	928.4	75.89	13.234	
11,400.0	10,594.3	10,626.6	10,598.5	39.1	37.8	88.89	-438.1	-1.2	1,086.2	1,010.3	75.82	14.326	
11,500.0	10,592.5	10,625.6	10,597.5	39.6	37.8	88.79	-438.1	-1.2	1,170.8	1,095.1	75.75	15.456	
11,600.0	10,590.8	10,624.6	10,596.4	40.1	37.8	88.69	-438.1	-1.2	1,257.8	1,182.1	75.70	16.616	
11,700.0	10,589.1	10,623.5	10,595.4	40.7	37.8	88.60	-438.1	-1.2	1,346.5	1,270.9	75.65	17.800	
11,800.0	10,587.3	10,622.5	10,594.4	41.4	37.8	88.50	-438.1	-1.2	1,436.8	1,361.2	75.60	19.004	
11,900.0	10,585.6	10,621.5	10,593.4	42.1	37.8	88.40	-438.1	-1.2	1,528.2	1,452.6	75.57	20.223	
12,000.0	10,583.8	10,620.5	10,592.4	42.9	37.8	88.31	-438.2	-1.2	1,620.7	1,545.1	75.53	21.456	
12,100.0	10,582.1	10,619.5	10,591.4	43.7	37.8	88.21	-438.2	-1.2	1,714.0	1,638.5	75.51	22.699	
12,200.0	10,580.3	10,618.5	10,590.4	44.6	37.8	88.12	-438.2	-1.2	1,808.0	1,732.5	75.49	23.952	
12,300.0	10,578.6	10,617.5	10,589.4	45.5	37.8	88.02	-438.2	-1.2	1,902.6	1,827.2	75.47	25.211	
12,400.0	10,576.8	14,147.0	12,450.7	46.4	51.5	162.08	1,436.7	-13.5	1,969.6	1,915.5	54.07	36.424	
12,500.0	10,575.1	14,256.0	12,453.6	47.4	52.5	162.21	1,545.6	-17.9	1,972.9	1,917.7	55.22	35.727	
12,600.0	10,573.3	14,356.0	12,455.2	48.4	53.4	162.34	1,645.5	-22.5	1,974.9	1,918.6	56.31	35.071	
12,700.0	10,571.6	14,424.1	12,456.5	49.4	54.1	162.41	1,713.5	-24.9	1,978.0	1,920.9	57.15	34.612	
12,800.0	10,569.9	14,518.1	12,460.3	50.5	55.0	162.49	1,807.4	-27.1	1,983.1	1,924.8	58.27	34.034	
12,900.0	10,568.1	14,593.8	12,463.3	51.6	55.8	162.57	1,883.0	-29.2	1,988.1	1,928.8	59.23	33.568	
13,000.0	10,566.4	14,667.6	12,467.0	52.8	56.5	162.58	1,956.7	-28.8	1,994.9	1,934.6	60.24	33.117	
13,100.0	10,564.6	14,767.6	12,472.3	53.9	57.6	162.61	2,056.6	-28.8	2,001.8	1,940.3	61.52	32.538	
13,200.0	10,562.9	14,950.8	12,477.8	55.1	59.6	162.46	2,239.5	-22.4	2,008.3	1,944.4	63.94	31.410	
13,300.0	10,561.1	15,078.9	12,476.8	56.3	61.0	162.30	2,367.6	-17.2	2,010.8	1,945.0	65.81	30.555	
13,400.0	10,559.4	15,223.5	12,473.2	57.6	62.7	162.15	2,512.1	-13.6	2,011.2	1,943.3	67.91	29.613	
13,500.0	10,557.6	15,313.6	12,470.7	58.8	63.8	162.07	2,602.1	-11.8	2,011.0	1,941.7	69.29	29.023	
13,600.0	10,555.9	15,432.8	12,466.6	60.1	65.2	162.00	2,721.2	-11.0	2,009.8	1,938.7	71.06	28.283	
13,700.0	10,554.1	15,515.3	12,465.3	61.4	66.2	162.03	2,803.7	-13.1	2,009.5	1,937.2	72.26	27.811	

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Rodney Robinson Fed Com #128H
Project:	Antelope Ridge	TVD Reference:	KB @ 3747.5usft
Reference Site:	Rodney Robinson	MD Reference:	KB @ 3747.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Rodney Robinson Fed Com #128H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 16-MWD													Offset Well Error:	0.0 usft
Reference				Offset			Semi Major Axis			Distance			Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Tooface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
13,800.0	10,552.4	15,616.9	12,463.9	62.7	67.5	162.14	2,905.1	-17.7	2,008.7	1,935.1	73.65	27.273		
13,810.7	10,552.2	15,623.2	12,463.8	62.9	67.6	162.14	2,911.4	-17.9	2,008.7	1,935.0	73.75	27.238		
13,900.0	10,550.6	15,679.0	12,463.6	64.0	68.3	162.16	2,967.2	-18.9	2,009.5	1,934.9	74.61	26.934		
14,000.0	10,548.9	15,796.3	12,462.0	65.4	69.8	162.11	3,084.5	-18.1	2,010.4	1,934.0	76.40	26.315		
14,100.0	10,547.2	15,869.0	12,462.0	66.7	70.7	162.10	3,157.2	-18.0	2,012.2	1,934.7	77.55	25.947		
14,200.0	10,545.4	15,939.1	12,463.3	68.1	71.6	162.12	3,227.3	-18.8	2,015.5	1,936.8	78.64	25.628		
14,300.0	10,543.7	16,072.4	12,465.7	69.5	73.4	162.20	3,360.6	-21.4	2,018.6	1,938.1	80.56	25.059		
14,400.0	10,541.9	16,188.5	12,465.2	70.9	74.9	162.23	3,476.6	-23.4	2,019.6	1,937.3	82.29	24.543		
14,500.0	10,540.2	16,261.6	12,465.7	72.3	75.9	162.27	3,549.7	-24.9	2,021.6	1,938.2	83.43	24.232		
14,600.0	10,538.4	16,366.4	12,466.9	73.7	77.4	162.35	3,654.5	-28.1	2,023.7	1,938.8	84.96	23.819		
14,700.0	10,536.7	16,441.5	12,469.2	75.1	78.4	162.49	3,729.4	-32.8	2,026.7	1,940.7	86.02	23.559		
14,800.0	10,534.9	16,674.4	12,462.8	76.5	81.6	162.19	3,961.7	-24.8	2,027.3	1,937.4	89.83	22.569		
14,900.0	10,533.2	16,802.4	12,453.2	78.0	83.4	161.91	4,089.2	-18.1	2,023.7	1,931.5	92.14	21.963		
15,000.0	10,531.4	16,900.7	12,446.0	79.4	84.8	161.79	4,187.1	-16.3	2,019.3	1,925.4	93.88	21.510		
15,100.0	10,529.7	16,961.9	12,442.9	80.9	85.6	161.79	4,248.2	-17.4	2,015.9	1,920.9	94.95	21.230		
15,200.0	10,527.9	17,031.7	12,441.0	82.4	86.6	161.80	4,318.0	-19.0	2,014.5	1,918.3	96.12	20.957		
15,300.0	10,526.2	17,154.4	12,438.0	83.8	88.4	161.84	4,440.7	-21.8	2,013.5	1,915.4	98.04	20.538		
15,400.0	10,524.5	17,250.3	12,434.4	85.3	89.8	161.86	4,536.5	-24.1	2,011.1	1,911.5	99.59	20.194		
15,500.0	10,522.7	17,364.8	12,431.1	86.8	91.4	161.91	4,650.8	-27.7	2,009.5	1,908.1	101.37	19.824		
15,600.0	10,521.0	17,504.1	12,424.8	88.3	93.5	161.97	4,789.9	-32.6	2,006.1	1,902.6	103.49	19.385		
15,700.0	10,519.2	17,609.2	12,418.2	89.8	95.0	162.02	4,894.7	-36.8	2,000.8	1,895.7	105.15	19.029		
15,800.0	10,517.5	17,678.6	12,414.4	91.3	96.1	162.01	4,964.1	-37.9	1,997.0	1,890.6	106.39	18.771		
15,900.0	10,515.7	17,790.0	12,407.4	92.8	97.7	161.93	5,075.2	-37.9	1,992.9	1,884.6	108.32	18.399		
16,000.0	10,514.0	17,855.0	12,404.3	94.3	98.7	161.90	5,140.1	-38.2	1,990.1	1,880.6	109.52	18.171		
16,100.0	10,512.2	17,975.9	12,398.5	95.8	100.5	161.87	5,260.9	-39.4	1,987.2	1,875.6	111.54	17.816		
16,200.0	10,510.5	18,044.0	12,395.9	97.3	101.5	161.87	5,328.9	-40.4	1,985.0	1,872.3	112.76	17.604		
16,300.0	10,508.7	18,162.9	12,391.9	98.9	103.3	161.89	5,447.8	-43.0	1,983.1	1,868.4	114.69	17.292		
16,400.0	10,507.0	18,257.8	12,389.0	100.4	104.7	161.96	5,542.5	-47.0	1,980.8	1,864.6	116.19	17.048		
16,500.0	10,505.3	18,370.5	12,386.0	101.9	106.4	162.08	5,655.0	-52.8	1,978.7	1,860.8	117.87	16.787		
16,600.0	10,503.5	18,535.0	12,375.9	103.5	108.9	162.05	5,819.2	-55.8	1,974.3	1,853.8	120.50	16.384		
16,700.0	10,501.8	18,645.9	12,366.0	105.0	110.6	162.02	5,929.6	-58.1	1,967.0	1,844.6	122.39	16.071		
16,800.0	10,500.0	18,706.0	12,361.8	106.6	111.5	162.01	5,989.5	-59.5	1,961.5	1,838.0	123.56	15.876		
16,900.0	10,498.3	18,813.8	12,355.2	108.1	113.2	162.02	6,097.1	-62.5	1,956.8	1,831.5	125.34	15.612		
17,000.0	10,496.5	18,880.4	12,351.4	109.7	114.2	162.03	6,163.5	-64.2	1,952.6	1,826.1	126.57	15.428		
17,100.0	10,494.8	19,004.0	12,344.7	111.2	116.1	162.00	6,286.9	-65.9	1,949.1	1,820.4	128.65	15.150		
17,200.0	10,493.0	19,039.3	12,343.4	112.8	116.6	161.99	6,322.2	-66.4	1,946.5	1,817.0	129.43	15.039		
17,242.6	10,492.3	19,058.5	12,342.9	113.4	116.9	162.00	6,341.4	-66.7	1,946.2	1,816.4	129.79	14.995		
17,300.0	10,491.3	19,085.0	12,342.7	114.3	117.3	162.00	6,367.9	-67.1	1,946.7	1,816.4	130.27	14.943		
17,400.0	10,489.5	19,400.0	12,341.6	115.9	91.5	162.01	6,513.3	-68.2	1,947.9	1,830.7	117.23	16.616		
17,500.0	10,487.8	19,383.1	12,332.6	117.5	121.9	161.78	6,665.6	-63.8	1,944.8	1,809.2	135.58	14.344		
17,600.0	10,486.0	19,478.2	12,326.5	119.0	123.4	161.64	6,760.4	-61.3	1,941.5	1,804.0	137.47	14.123		
17,700.0	10,484.3	19,579.6	12,320.3	120.6	124.9	161.53	6,861.7	-59.7	1,938.2	1,798.8	139.43	13.901		
17,800.0	10,482.6	19,674.0	12,315.0	122.2	126.4	161.44	6,955.8	-58.7	1,935.2	1,793.9	141.24	13.701		
17,900.0	10,480.8	19,784.6	12,309.2	123.7	128.1	161.39	7,066.3	-59.3	1,932.0	1,788.8	143.23	13.489		
18,000.0	10,479.1	19,889.2	12,303.6	125.3	129.8	161.39	7,170.7	-61.6	1,928.2	1,783.2	145.03	13.295		
18,100.0	10,477.3	19,981.4	12,299.3	126.9	131.2	161.43	7,262.8	-64.9	1,924.6	1,778.0	146.59	13.130		
18,200.0	10,475.6	20,076.2	12,295.7	128.5	132.7	161.51	7,357.4	-69.3	1,921.5	1,773.4	148.10	12.974		
18,300.0	10,473.8	20,172.6	12,292.1	130.1	134.2	161.59	7,453.6	-73.7	1,918.4	1,768.8	149.64	12.820		
18,400.0	10,472.1	20,273.9	12,286.6	131.7	135.8	161.50	7,554.8	-72.8	1,915.6	1,764.0	151.58	12.638		
18,500.0	10,470.3	20,372.3	12,281.0	133.2	137.3	161.39	7,653.0	-71.3	1,912.6	1,759.1	153.52	12.459		
18,600.0	10,468.6	20,471.4	12,275.8	134.8	138.9	161.32	7,752.0	-70.7	1,909.8	1,754.4	155.41	12.289		
18,700.0	10,466.8	20,604.4	12,268.6	136.4	141.0	161.27	7,884.7	-72.1	1,906.3	1,748.6	157.72	12.087		

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Rodney Robinson Fed Com #128H
Project:	Antelope Ridge	TVD Reference:	KB @ 3747.5usft
Reference Site:	Rodney Robinson	MD Reference:	KB @ 3747.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Rodney Robinson Fed Com #128H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 16-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
18,800.0	10,465.1	20,660.7	12,265.5	138.0	141.9	161.24	7,941.0	-72.3	1,903.0	1,744.1	158.92	11.975		
18,900.0	10,463.3	20,769.3	12,260.8	139.6	143.6	161.15	8,049.5	-71.4	1,901.2	1,740.2	160.99	11.810		
19,000.0	10,461.6	20,831.3	12,258.0	141.2	144.5	161.12	8,111.4	-71.3	1,899.2	1,736.9	162.25	11.705		
19,028.0	10,461.1	20,845.5	12,257.7	141.6	144.8	161.11	8,125.6	-71.2	1,899.1	1,736.6	162.54	11.684		
19,100.0	10,459.9	20,883.5	12,257.2	142.8	145.4	161.09	8,163.6	-70.9	1,899.8	1,736.5	163.28	11.635		
19,200.0	10,458.1	20,972.9	12,257.2	144.4	146.8	161.08	8,252.9	-70.9	1,901.8	1,737.0	164.89	11.534		
19,300.0	10,456.4	21,080.8	12,258.1	146.0	148.5	161.13	8,360.8	-72.8	1,904.0	1,737.3	166.68	11.423		
19,400.0	10,454.6	21,190.6	12,258.8	147.6	150.2	161.23	8,470.7	-76.3	1,905.6	1,737.2	168.42	11.315		
19,500.0	10,452.9	21,289.3	12,259.7	149.2	151.8	161.34	8,569.2	-80.3	1,907.1	1,737.2	169.91	11.224		
19,600.0	10,451.1	21,399.2	12,258.8	150.8	153.5	161.31	8,679.1	-80.0	1,908.4	1,736.5	171.92	11.101		
19,700.0	10,449.4	21,507.8	12,256.8	152.4	155.2	161.24	8,787.6	-78.5	1,909.0	1,735.1	173.99	10.972		
19,800.0	10,447.6	21,598.6	12,255.5	154.0	156.7	161.21	8,878.4	-78.3	1,909.7	1,734.0	175.68	10.870		
19,900.0	10,445.9	21,684.8	12,255.0	155.6	158.0	161.20	8,964.6	-78.5	1,911.1	1,733.8	177.24	10.782		
20,000.0	10,444.1	21,794.7	12,253.7	157.2	159.8	161.08	9,074.5	-75.3	1,912.9	1,733.4	179.46	10.659		
20,100.0	10,442.4	21,900.5	12,251.5	158.8	161.4	160.97	9,180.2	-72.5	1,913.8	1,732.2	181.61	10.538		
20,200.0	10,440.7	22,061.1	12,246.9	160.4	164.0	160.89	9,340.7	-71.8	1,913.2	1,728.7	184.54	10.367		
20,300.0	10,438.9	22,180.7	12,241.7	162.0	165.9	160.90	9,460.2	-74.7	1,910.2	1,723.7	186.56	10.239		
20,400.0	10,437.2	22,305.2	12,236.2	163.6	167.9	161.01	9,584.4	-80.9	1,906.4	1,718.0	188.41	10.119		
20,500.0	10,435.4	22,430.1	12,229.2	165.3	169.9	161.16	9,708.9	-88.8	1,901.0	1,710.9	190.14	9.998		
20,600.0	10,433.7	22,540.3	12,222.5	166.9	171.7	161.31	9,818.6	-96.8	1,894.9	1,703.3	191.66	9.887		
20,700.0	10,431.9	22,640.0	12,216.0	168.5	173.3	161.44	9,917.8	-104.1	1,888.3	1,695.2	193.09	9.779		
20,800.0	10,430.2	22,640.0	12,216.0	170.1	173.3	161.44	9,917.8	-104.1	1,884.5	1,691.0	193.52	9.738		
20,820.9	10,429.8	22,640.0	12,216.0	170.4	173.3	161.44	9,917.8	-104.1	1,884.4	1,690.9	193.56	9.736		
20,867.4	10,429.0	22,640.0	12,216.0	171.2	173.3	161.44	9,917.8	-104.1	1,885.0	1,691.4	193.57	9.738		

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Rodney Robinson Fed Com #128H
Project:	Antelope Ridge	TVD Reference:	KB @ 3747.5usft
Reference Site:	Rodney Robinson	MD Reference:	KB @ 3747.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Rodney Robinson Fed Com #128H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference				Offset		Semi Major Axis			Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	2.0	-2.0	0.0	0.0	89.57	1.7	230.0	230.1					
100.0	100.0	102.0	98.0	0.1	0.1	89.57	1.7	230.0	230.1	229.8	0.26	873.148		
200.0	200.0	202.0	198.0	0.5	0.5	89.57	1.7	230.0	230.1	229.1	0.98	234.649		
300.0	300.0	302.0	298.0	0.8	0.9	89.57	1.7	230.0	230.1	228.4	1.70	135.536		
400.0	400.0	402.0	398.0	1.2	1.2	89.57	1.7	230.0	230.1	227.6	2.41	95.288		
500.0	500.0	502.0	498.0	1.6	1.6	89.57	1.7	230.0	230.1	226.9	3.13	73.470		
600.0	600.0	602.0	598.0	1.9	1.9	89.57	1.7	230.0	230.1	226.2	3.85	59.782		
700.0	700.0	702.0	698.0	2.3	2.3	89.57	1.7	230.0	230.1	225.5	4.57	50.394		
800.0	800.0	802.0	798.0	2.6	2.6	89.57	1.7	230.0	230.1	224.8	5.28	43.554		
900.0	900.0	902.0	898.0	3.0	3.0	89.57	1.7	230.0	230.1	224.1	6.00	38.349		
1,000.0	1,000.0	1,002.0	998.0	3.4	3.4	89.57	1.7	230.0	230.1	223.3	6.72	34.255		
1,100.0	1,100.0	1,102.0	1,098.0	3.7	3.7	89.57	1.7	230.0	230.1	222.6	7.43	30.951		
1,200.0	1,200.0	1,202.0	1,198.0	4.1	4.1	89.57	1.7	230.0	230.1	221.9	8.15	28.228		
1,300.0	1,300.0	1,302.0	1,298.0	4.4	4.4	89.57	1.7	230.0	230.1	221.2	8.87	25.946		
1,400.0	1,400.0	1,402.0	1,398.0	4.8	4.8	89.57	1.7	230.0	230.1	220.5	9.58	24.005		
1,500.0	1,500.0	1,502.0	1,498.0	5.1	5.2	89.57	1.7	230.0	230.1	219.8	10.30	22.334 CC		
1,600.0	1,600.0	1,602.0	1,598.0	5.5	5.5	-141.11	1.7	230.0	230.7	219.7	11.00	20.970 ES		
1,700.0	1,700.0	1,702.0	1,698.0	5.8	5.9	-141.51	1.7	230.0	232.8	221.1	11.69	19.907		
1,800.0	1,799.9	1,802.1	1,797.9	6.2	6.2	-142.14	1.7	230.0	236.2	223.8	12.39	19.070		
1,900.0	1,899.7	1,902.3	1,897.7	6.5	6.6	-143.00	1.7	230.0	241.1	228.0	13.08	18.425		
2,000.0	1,999.4	2,002.6	1,997.4	6.8	6.9	-144.06	1.7	230.0	247.4	233.6	13.78	17.947		
2,100.0	2,098.9	2,103.1	2,096.9	7.2	7.3	-145.28	1.7	230.0	255.2	240.7	14.49	17.616		
2,200.0	2,198.3	2,203.7	2,196.3	7.5	7.7	-146.62	1.7	230.0	264.6	249.4	15.19	17.416		
2,300.0	2,297.4	2,304.6	2,295.4	7.9	8.0	-148.05	1.7	230.0	275.6	259.7	15.90	17.331		
2,400.0	2,396.4	2,405.6	2,394.4	8.3	8.4	-149.51	1.7	230.0	287.6	270.9	16.62	17.306		
2,500.0	2,495.5	2,506.5	2,493.5	8.7	8.8	-150.86	1.7	230.0	299.7	282.3	17.33	17.292		
2,600.0	2,594.5	2,607.5	2,592.5	9.0	9.1	-152.10	1.7	230.0	311.9	293.9	18.05	17.285		
2,700.0	2,693.5	2,708.5	2,691.5	9.4	9.5	-153.25	1.7	230.0	324.3	305.5	18.76	17.286		
2,800.0	2,792.5	2,809.5	2,790.5	9.8	9.8	-154.31	1.7	230.0	336.8	317.3	19.48	17.291		
2,900.0	2,891.6	2,889.6	2,889.6	10.2	10.1	-155.30	1.7	230.0	349.4	329.3	20.12	17.365		
3,000.0	2,990.6	2,988.6	2,988.6	10.6	10.5	-156.22	1.7	230.0	362.1	341.3	20.84	17.381		
3,100.0	3,089.6	3,087.6	3,087.6	11.0	10.8	-157.08	1.7	230.0	374.9	353.4	21.55	17.399		
3,200.0	3,188.6	3,186.6	3,186.6	11.4	11.2	-157.88	1.7	230.0	387.8	365.6	22.26	17.420		
3,300.0	3,287.7	3,285.7	3,285.7	11.8	11.5	-158.62	1.7	230.0	400.8	377.8	22.98	17.442		
3,400.0	3,386.7	3,384.7	3,384.7	12.2	11.9	-159.33	1.7	230.0	413.8	390.1	23.69	17.464		
3,500.0	3,485.7	3,483.7	3,483.7	12.6	12.3	-159.99	1.7	230.0	426.8	402.4	24.41	17.488		
3,600.0	3,584.8	3,582.8	3,582.8	13.0	12.6	-160.60	1.7	230.0	439.9	414.8	25.12	17.512		
3,700.0	3,683.8	3,681.8	3,681.8	13.4	13.0	-161.19	1.7	230.0	453.1	427.3	25.84	17.536		
3,800.0	3,782.8	3,780.8	3,780.8	13.8	13.3	-161.74	1.7	230.0	466.3	439.8	26.56	17.560		
3,900.0	3,881.8	3,879.8	3,879.8	14.2	13.7	-162.26	1.7	230.0	479.6	452.3	27.27	17.585		
4,000.0	3,980.9	3,978.9	3,978.9	14.6	14.0	-162.75	1.7	230.0	492.9	464.9	27.99	17.609		
4,100.0	4,079.9	4,077.9	4,077.9	15.0	14.4	-163.22	1.7	230.0	506.2	477.5	28.71	17.633		
4,200.0	4,178.9	4,176.9	4,176.9	15.4	14.7	-163.66	1.7	230.0	519.5	490.1	29.42	17.657		
4,300.0	4,277.9	4,275.9	4,275.9	15.8	15.1	-164.08	1.7	230.0	532.9	502.8	30.14	17.680		
4,400.0	4,377.0	4,375.0	4,375.0	16.3	15.5	-164.48	1.7	230.0	546.3	515.5	30.86	17.703		
4,500.0	4,476.0	4,474.0	4,474.0	16.7	15.8	-164.86	1.7	230.0	559.7	528.2	31.58	17.726		
4,600.0	4,575.0	4,573.0	4,573.0	17.1	16.2	-165.23	1.7	230.0	573.2	540.9	32.30	17.748		
4,700.0	4,674.0	4,672.0	4,672.0	17.5	16.5	-165.57	1.7	230.0	586.7	553.7	33.01	17.770		
4,800.0	4,773.1	4,771.1	4,771.1	17.9	16.9	-165.90	1.7	230.0	600.2	566.4	33.73	17.792		
4,900.0	4,872.1	4,870.1	4,870.1	18.3	17.2	-166.22	1.7	230.0	613.7	579.2	34.45	17.813		
5,000.0	4,971.1	4,969.1	4,969.1	18.7	17.6	-166.52	1.7	230.0	627.2	592.0	35.17	17.833		
5,100.0	5,070.2	5,070.5	5,070.5	19.2	17.9	-166.78	1.3	230.1	640.6	604.8	35.89	17.850		

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Rodney Robinson Fed Com #128H
Project:	Antelope Ridge	TVD Reference:	KB @ 3747.5usft
Reference Site:	Rodney Robinson	MD Reference:	KB @ 3747.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Rodney Robinson Fed Com #128H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft	
Survey Program: 0-MWD													Offset Well Error:		0.0 usft
Reference				Offset			Semi Major Axis			Distance			Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Tooface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
5,200.0	5,169.2	5,173.1	5,173.1	19.6	18.3	-166.89	-0.9	230.5	653.6	617.0	36.60	17.857			
5,300.0	5,268.2	5,275.9	5,275.8	20.0	18.6	-166.83	-4.8	231.1	666.0	628.7	37.31	17.852			
5,400.0	5,367.2	5,378.7	5,378.4	20.4	18.9	-166.64	-10.6	232.0	677.8	639.8	38.01	17.832			
5,500.0	5,466.3	5,481.6	5,481.0	20.8	19.3	-166.29	-18.3	233.2	689.2	650.5	38.73	17.797			
5,600.0	5,565.3	5,584.4	5,583.4	21.2	19.6	-165.82	-27.7	234.7	700.1	660.6	39.44	17.749			
5,700.0	5,664.3	5,687.1	5,685.5	21.6	20.0	-165.22	-38.9	236.5	710.5	670.3	40.17	17.688			
5,800.0	5,763.3	5,789.6	5,787.1	22.1	20.3	-164.49	-51.9	238.6	720.6	679.7	40.91	17.615			
5,900.0	5,862.4	5,889.0	5,885.5	22.5	20.7	-163.73	-65.6	240.8	730.4	688.8	41.64	17.541			
6,000.0	5,961.4	5,988.0	5,983.6	22.9	21.0	-162.99	-79.2	242.9	740.5	698.1	42.38	17.470			
6,100.0	6,060.4	6,087.1	6,081.7	23.3	21.4	-162.27	-92.8	245.1	750.6	707.4	43.13	17.401			
6,200.0	6,159.4	6,186.1	6,179.8	23.7	21.8	-161.57	-106.4	247.3	760.8	716.9	43.89	17.333			
6,300.0	6,258.5	6,285.2	6,277.9	24.2	22.1	-160.88	-120.0	249.4	771.2	726.5	44.66	17.268			
6,400.0	6,357.5	6,384.2	6,375.9	24.6	22.5	-160.22	-133.7	251.6	781.6	736.2	45.43	17.203			
6,500.0	6,456.5	6,483.3	6,474.0	25.0	22.9	-159.57	-147.3	253.8	792.2	746.0	46.22	17.141			
6,600.0	6,555.6	6,582.3	6,572.1	25.4	23.3	-158.94	-160.9	255.9	802.9	755.8	47.01	17.080			
6,700.0	6,654.6	6,681.4	6,670.2	25.8	23.7	-158.33	-174.5	258.1	813.6	765.8	47.80	17.020			
6,800.0	6,753.6	6,780.4	6,768.3	26.3	24.1	-157.73	-188.1	260.3	824.5	775.8	48.60	16.963			
6,900.0	6,852.6	6,879.4	6,866.3	26.7	24.6	-157.15	-201.7	262.4	835.4	786.0	49.41	16.906			
7,000.0	6,951.7	6,978.5	6,964.4	27.1	25.0	-156.58	-215.3	264.6	846.4	796.2	50.23	16.852			
7,100.0	7,050.7	7,077.5	7,062.5	27.5	25.4	-156.02	-228.9	266.8	857.5	806.5	51.05	16.798			
7,200.0	7,149.7	7,176.6	7,160.6	27.9	25.8	-155.48	-242.6	268.9	868.7	816.8	51.87	16.747			
7,300.0	7,248.7	7,275.6	7,258.7	28.4	26.3	-154.96	-256.2	271.1	879.9	827.2	52.70	16.696			
7,400.0	7,347.8	7,374.7	7,356.7	28.8	26.7	-154.45	-269.8	273.3	891.2	837.7	53.54	16.648			
7,500.0	7,446.8	7,473.7	7,454.8	29.2	27.2	-153.95	-283.4	275.4	902.6	848.3	54.37	16.600			
7,598.2	7,544.1	7,571.0	7,551.1	29.6	27.6	-153.47	-296.8	277.6	913.9	858.7	55.20	16.555			
7,600.0	7,545.8	7,572.7	7,552.9	29.6	27.6	-153.46	-297.0	277.6	914.1	858.9	55.22	16.554			
7,700.0	7,645.0	7,671.9	7,651.1	30.0	28.1	-153.02	-310.6	279.8	924.4	868.3	56.06	16.489			
7,800.0	7,744.5	7,771.1	7,749.3	30.4	28.5	-152.50	-324.3	281.9	932.5	875.6	56.91	16.385			
7,900.0	7,844.3	7,870.4	7,847.6	30.8	29.0	-151.90	-337.9	284.1	938.4	880.6	57.75	16.247			
8,000.0	7,944.1	7,969.6	7,945.9	31.2	29.4	-151.22	-351.6	286.3	942.0	883.4	58.60	16.076			
8,100.0	8,044.1	8,068.8	8,044.1	31.5	29.9	-150.46	-365.2	288.4	943.6	884.2	59.44	15.875			
8,131.5	8,075.7	8,100.0	8,075.0	31.6	30.0	80.36	-369.5	289.1	943.7	884.0	59.70	15.807			
8,200.0	8,144.1	8,167.8	8,142.2	31.8	30.4	80.93	-378.8	290.6	943.6	883.3	60.26	15.659			
8,202.8	8,146.9	8,170.6	8,144.9	31.8	30.4	80.96	-379.2	290.7	943.6	883.3	60.28	15.653			
8,300.0	8,244.1	8,266.8	8,240.2	32.1	30.8	81.77	-392.4	292.8	943.7	882.6	61.08	15.451			
8,400.0	8,344.1	8,365.9	8,338.3	32.4	31.3	82.61	-406.0	294.9	944.0	882.1	61.90	15.251			
8,500.0	8,444.1	8,464.9	8,436.4	32.7	31.8	83.44	-419.6	297.1	944.5	881.8	62.72	15.059			
8,600.0	8,544.1	8,563.9	8,534.4	33.0	32.3	84.28	-433.2	299.3	945.2	881.7	63.54	14.875			
8,700.0	8,644.1	8,662.9	8,632.5	33.3	32.7	85.11	-446.8	301.4	946.1	881.8	64.37	14.698			
8,800.0	8,744.1	8,762.0	8,730.5	33.6	33.2	85.94	-460.5	303.6	947.3	882.1	65.20	14.529			
8,900.0	8,844.1	8,861.0	8,828.6	34.0	33.7	86.77	-474.1	305.8	948.6	882.6	66.02	14.368			
9,000.0	8,944.1	8,960.0	8,926.7	34.3	34.2	87.60	-487.7	307.9	950.1	883.3	66.85	14.213			
9,100.0	9,044.1	9,062.1	9,027.9	34.6	34.7	88.38	-500.6	310.0	951.7	884.0	67.68	14.061			
9,200.0	9,144.1	9,165.1	9,130.3	34.9	35.1	89.00	-510.9	311.6	953.1	884.6	68.49	13.916			
9,300.0	9,244.1	9,268.5	9,233.5	35.2	35.5	89.46	-518.5	312.8	954.1	884.9	69.26	13.777			
9,400.0	9,344.1	9,372.3	9,337.2	35.5	35.9	89.75	-523.3	313.6	954.8	884.9	69.99	13.642			
9,500.0	9,444.1	9,476.3	9,441.1	35.8	36.3	89.87	-525.4	314.0	955.2	884.5	70.68	13.513			
9,600.0	9,544.1	9,577.3	9,542.1	36.2	36.6	89.88	-525.5	314.0	955.2	883.8	71.33	13.390			
9,700.0	9,644.1	9,677.3	9,642.1	36.5	36.9	89.88	-525.5	314.0	955.2	883.2	71.97	13.271			
9,800.0	9,744.1	9,777.3	9,742.1	36.8	37.2	89.88	-525.5	314.0	955.2	882.6	72.61	13.154			
9,900.0	9,844.1	9,877.3	9,842.1	37.1	37.6	89.88	-525.5	314.0	955.2	881.9	73.26	13.039			
10,000.0	9,944.1	9,977.3	9,942.1	37.4	37.9	89.88	-525.5	314.0	955.2	881.3	73.90	12.925			

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Rodney Robinson Fed Com #128H
Project:	Antelope Ridge	TVD Reference:	KB @ 3747.5usft
Reference Site:	Rodney Robinson	MD Reference:	KB @ 3747.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Rodney Robinson Fed Com #128H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												Offset Well Error:	0.0 usft
Reference				Offset		Semi Major Axis			Distance				Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
10,082.9	10,027.0	10,060.2	10,025.0	37.7	38.1	89.88	-525.5	314.0	955.2	880.7	74.44	12.832	
10,100.0	10,044.1	10,077.3	10,042.1	37.8	38.2	86.89	-525.5	314.0	955.2	880.6	74.55	12.813	
10,150.0	10,094.0	10,127.1	10,092.0	37.9	38.3	87.13	-525.5	314.0	955.0	880.1	74.86	12.756	
10,200.0	10,143.3	10,176.5	10,141.3	38.0	38.5	87.64	-525.5	314.0	954.6	879.4	75.17	12.699	
10,250.0	10,191.8	10,224.9	10,189.8	38.2	38.7	88.40	-525.5	314.0	954.2	878.7	75.46	12.644	
10,300.0	10,239.0	10,272.1	10,237.0	38.3	38.8	89.36	-525.5	314.0	953.8	878.1	75.74	12.593	
10,328.9	10,265.6	10,301.3	10,263.6	38.3	38.9	90.00	-525.5	314.0	953.7	877.8	75.90	12.566	
10,350.0	10,284.5	10,317.7	10,282.5	38.4	38.9	90.49	-525.5	314.0	953.8	877.8	76.00	12.550	
10,400.0	10,328.2	10,361.3	10,326.2	38.4	39.1	91.71	-525.5	314.0	954.3	878.1	76.24	12.518	
10,450.0	10,369.5	10,402.7	10,367.5	38.5	39.2	92.96	-525.5	314.0	955.7	879.3	76.45	12.501	
10,500.0	10,408.2	10,441.4	10,406.2	38.5	39.3	94.17	-525.5	314.0	958.3	881.6	76.64	12.503	
10,550.0	10,444.1	10,477.2	10,442.1	38.5	39.5	95.26	-525.5	314.0	962.3	885.5	76.80	12.529	
10,600.0	10,476.7	10,509.9	10,474.7	38.6	39.6	96.15	-525.5	314.0	968.1	891.1	76.94	12.583	
10,650.0	10,505.9	10,539.1	10,503.9	38.6	39.6	96.78	-525.5	314.0	975.8	898.8	77.04	12.667	
10,700.0	10,531.5	10,564.7	10,529.5	38.5	39.7	97.06	-525.5	314.0	985.8	908.7	77.10	12.786	
10,750.0	10,553.3	10,586.4	10,551.3	38.5	39.8	96.96	-525.5	314.0	998.2	921.0	77.13	12.940	
10,800.0	10,571.0	10,604.2	10,569.0	38.5	39.9	96.40	-525.5	314.0	1,012.9	935.8	77.13	13.132	
10,850.0	10,584.6	10,617.8	10,582.6	38.4	39.9	95.36	-525.5	314.0	1,030.1	953.0	77.10	13.360	
10,900.0	10,594.0	10,627.1	10,592.0	38.4	39.9	93.79	-525.5	314.0	1,049.7	972.6	77.04	13.625	
10,950.0	10,599.0	10,632.2	10,597.0	38.4	39.9	91.68	-525.5	314.0	1,071.4	994.4	76.95	13.923	
10,982.9	10,600.0	10,633.1	10,598.0	38.3	39.9	90.00	-525.5	314.0	1,086.7	1,009.9	76.88	14.136	
11,000.0	10,599.9	10,633.1	10,597.9	38.3	39.9	89.95	-525.5	314.0	1,095.1	1,018.3	76.84	14.252	
11,100.0	10,599.3	10,632.5	10,597.3	38.2	39.9	89.54	-525.5	314.0	1,149.4	1,072.8	76.62	15.002	
11,168.3	10,598.3	10,631.5	10,596.3	38.2	39.9	89.16	-525.5	314.0	1,191.4	1,114.9	76.48	15.577	
11,200.0	10,597.8	10,630.9	10,595.8	38.3	39.9	89.13	-525.5	314.0	1,212.0	1,135.6	76.43	15.858	
11,300.0	10,596.0	10,629.2	10,594.0	38.6	39.9	89.02	-525.5	314.0	1,279.9	1,203.6	76.26	16.784	
11,400.0	10,594.3	10,627.5	10,592.3	39.1	39.9	88.91	-525.5	314.0	1,351.8	1,275.7	76.11	17.760	
11,500.0	10,592.5	10,625.7	10,590.5	39.6	39.9	88.80	-525.5	314.0	1,427.1	1,351.1	75.99	18.779	
11,600.0	10,590.8	10,624.0	10,588.8	40.1	39.9	88.69	-525.5	314.0	1,505.3	1,429.4	75.89	19.835	
11,700.0	10,589.1	10,622.2	10,587.1	40.7	39.9	88.58	-525.5	314.0	1,585.9	1,510.1	75.80	20.921	
11,800.0	10,587.3	10,620.5	10,585.3	41.4	39.9	88.47	-525.5	314.0	1,668.6	1,592.9	75.73	22.033	
11,900.0	10,585.6	10,618.7	10,583.6	42.1	39.9	88.36	-525.5	314.0	1,753.1	1,677.4	75.67	23.167	
12,000.0	10,583.8	10,617.0	10,581.8	42.9	39.9	88.25	-525.5	314.0	1,839.2	1,763.6	75.63	24.320	
12,100.0	10,582.1	10,615.2	10,580.1	43.7	39.9	88.14	-525.5	314.0	1,926.6	1,851.0	75.59	25.489	
12,200.0	10,580.3	14,060.9	12,446.0	44.6	68.9	160.53	1,268.1	42.7	1,980.9	1,923.8	57.10	34.692	
12,300.0	10,578.6	14,160.9	12,446.0	45.5	71.1	160.54	1,368.1	41.7	1,982.6	1,924.0	58.54	33.866	
12,400.0	10,576.8	14,260.8	12,446.0	46.4	73.4	160.56	1,468.1	40.7	1,984.2	1,924.2	60.02	33.056	
12,500.0	10,575.1	14,360.8	12,446.0	47.4	75.8	160.58	1,568.0	39.7	1,985.8	1,924.3	61.55	32.265	
12,600.0	10,573.3	14,460.8	12,446.0	48.4	78.2	160.59	1,668.0	38.7	1,987.5	1,924.4	63.11	31.493	
12,700.0	10,571.6	14,560.8	12,446.0	49.4	80.6	160.61	1,768.0	37.6	1,989.1	1,924.4	64.70	30.743	
12,800.0	10,569.9	14,660.8	12,446.0	50.5	83.1	160.63	1,868.0	36.6	1,990.8	1,924.5	66.33	30.015	
12,900.0	10,568.1	14,760.8	12,446.0	51.6	85.7	160.65	1,968.0	35.6	1,992.4	1,924.4	67.98	29.309	
13,000.0	10,566.4	14,860.8	12,446.0	52.8	88.2	160.66	2,067.9	34.6	1,994.1	1,924.4	69.66	28.625	
13,100.0	10,564.6	14,960.7	12,446.0	53.9	90.8	160.68	2,167.9	33.6	1,995.7	1,924.4	71.37	27.964	
13,200.0	10,562.9	15,060.7	12,446.0	55.1	93.5	160.70	2,267.9	32.6	1,997.4	1,924.3	73.09	27.326	
13,300.0	10,561.1	15,160.7	12,446.0	56.3	96.1	160.71	2,367.9	31.6	1,999.0	1,924.2	74.84	26.710	
13,400.0	10,559.4	15,260.7	12,446.0	57.6	98.8	160.73	2,467.9	30.6	2,000.7	1,924.1	76.61	26.115	
13,500.0	10,557.6	15,360.7	12,446.0	58.8	101.5	160.75	2,567.8	29.6	2,002.3	1,923.9	78.40	25.541	
13,600.0	10,555.9	15,460.7	12,446.0	60.1	104.2	160.76	2,667.8	28.6	2,004.0	1,923.8	80.20	24.987	
13,700.0	10,554.1	15,560.6	12,446.0	61.4	107.0	160.78	2,767.8	27.6	2,005.6	1,923.6	82.02	24.453	
13,800.0	10,552.4	15,660.6	12,446.0	62.7	109.7	160.80	2,867.8	26.6	2,007.3	1,923.4	83.85	23.939	
13,900.0	10,550.6	15,760.6	12,446.0	64.0	112.5	160.81	2,967.8	25.6	2,008.9	1,923.2	85.70	23.442	

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Rodney Robinson Fed Com #128H
Project:	Antelope Ridge	TVD Reference:	KB @ 3747.5usft
Reference Site:	Rodney Robinson	MD Reference:	KB @ 3747.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Rodney Robinson Fed Com #128H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												Offset Well Error:	0.0 usft
Reference				Offset		Semi Major Axis			Distance				Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Tooface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
14,000.0	10,548.9	15,860.6	12,446.0	65.4	115.3	160.83	3,067.7	24.6	2,010.5	1,923.0	87.55	22.964	
14,100.0	10,547.2	15,960.6	12,446.0	66.7	118.1	160.84	3,167.7	23.6	2,012.2	1,922.8	89.42	22.502	
14,200.0	10,545.4	16,060.6	12,446.0	68.1	120.9	160.86	3,267.7	22.6	2,013.8	1,922.5	91.30	22.057	
14,300.0	10,543.7	16,160.6	12,446.0	69.5	123.8	160.88	3,367.7	21.6	2,015.5	1,922.3	93.19	21.627	
14,400.0	10,541.9	16,260.5	12,446.0	70.9	126.6	160.89	3,467.7	20.6	2,017.1	1,922.0	95.09	21.213	
14,500.0	10,540.2	16,360.5	12,446.0	72.3	129.5	160.91	3,567.6	19.6	2,018.8	1,921.8	97.00	20.812	
14,600.0	10,538.4	16,460.5	12,446.0	73.7	132.3	160.93	3,667.6	18.6	2,020.4	1,921.5	98.91	20.426	
14,700.0	10,536.7	16,560.5	12,446.0	75.1	135.2	160.94	3,767.6	17.6	2,022.1	1,921.2	100.84	20.053	
14,800.0	10,534.9	16,660.5	12,446.0	76.5	138.1	160.96	3,867.6	16.6	2,023.7	1,921.0	102.77	19.692	
14,900.0	10,533.2	16,760.5	12,446.0	78.0	141.0	160.98	3,967.6	15.6	2,025.4	1,920.7	104.70	19.344	
15,000.0	10,531.4	16,860.4	12,446.0	79.4	143.9	160.99	4,067.5	14.6	2,027.0	1,920.4	106.65	19.007	
15,100.0	10,529.7	16,960.4	12,446.0	80.9	146.8	161.01	4,167.5	13.6	2,028.7	1,920.1	108.59	18.681	
15,200.0	10,527.9	17,060.4	12,446.0	82.4	149.7	161.02	4,267.5	12.6	2,030.3	1,919.8	110.55	18.366	
15,300.0	10,526.2	17,160.4	12,446.0	83.8	152.6	161.04	4,367.5	11.6	2,032.0	1,919.5	112.50	18.061	
15,400.0	10,524.5	17,260.4	12,446.0	85.3	155.5	161.06	4,467.4	10.6	2,033.6	1,919.2	114.47	17.766	
15,500.0	10,522.7	17,360.4	12,446.0	86.8	158.5	161.07	4,567.4	9.6	2,035.3	1,918.8	116.43	17.480	
15,600.0	10,521.0	17,460.4	12,446.0	88.3	161.4	161.09	4,667.4	8.6	2,036.9	1,918.5	118.40	17.203	
15,700.0	10,519.2	17,560.3	12,446.0	89.8	164.3	161.10	4,767.4	7.6	2,038.6	1,918.2	120.38	16.935	
15,800.0	10,517.5	17,660.3	12,446.0	91.3	167.3	161.12	4,867.4	6.6	2,040.2	1,917.9	122.35	16.675	
15,900.0	10,515.7	17,760.3	12,446.0	92.8	170.2	161.14	4,967.3	5.6	2,041.9	1,917.6	124.33	16.423	
16,000.0	10,514.0	17,860.3	12,446.0	94.3	173.2	161.15	5,067.3	4.6	2,043.5	1,917.2	126.32	16.178	
16,100.0	10,512.2	17,960.3	12,446.0	95.8	176.2	161.17	5,167.3	3.6	2,045.2	1,916.9	128.30	15.940	
16,200.0	10,510.5	18,060.3	12,446.0	97.3	179.1	161.18	5,267.3	2.6	2,046.8	1,916.5	130.29	15.710	
16,300.0	10,508.7	18,160.2	12,446.0	98.9	182.1	161.20	5,367.3	1.6	2,048.5	1,916.2	132.28	15.486	
16,400.0	10,507.0	18,260.2	12,446.0	100.4	185.1	161.22	5,467.2	0.6	2,050.1	1,915.9	134.28	15.268	
16,500.0	10,505.3	18,360.2	12,446.0	101.9	188.0	161.23	5,567.2	-0.4	2,051.8	1,915.5	136.27	15.057	
16,600.0	10,503.5	18,460.2	12,446.0	103.5	191.0	161.25	5,667.2	-1.4	2,053.4	1,915.2	138.27	14.851	
16,700.0	10,501.8	18,560.2	12,446.0	105.0	194.0	161.26	5,767.2	-2.5	2,055.1	1,914.8	140.27	14.651	
16,800.0	10,500.0	18,660.2	12,446.0	106.6	197.0	161.28	5,867.2	-3.5	2,056.7	1,914.5	142.27	14.457	
16,900.0	10,498.3	18,760.2	12,446.0	108.1	199.9	161.30	5,967.1	-4.5	2,058.4	1,914.1	144.27	14.268	
17,000.0	10,496.5	18,860.1	12,446.0	109.7	202.9	161.31	6,067.1	-5.5	2,060.1	1,913.8	146.27	14.084	
17,100.0	10,494.8	18,960.1	12,446.0	111.2	205.9	161.33	6,167.1	-6.5	2,061.7	1,913.4	148.28	13.905	
17,200.0	10,493.0	19,060.1	12,446.0	112.8	208.9	161.34	6,267.1	-7.5	2,063.4	1,913.1	150.28	13.730	
17,300.0	10,491.3	19,160.1	12,446.0	114.3	211.9	161.36	6,367.1	-8.5	2,065.0	1,912.7	152.29	13.560	
17,400.0	10,489.5	19,260.1	12,446.0	115.9	214.9	161.37	6,467.0	-9.5	2,066.7	1,912.4	154.29	13.394	
17,500.0	10,487.8	19,360.1	12,446.0	117.5	217.9	161.39	6,567.0	-10.5	2,068.3	1,912.0	156.30	13.233	
17,600.0	10,486.0	19,460.0	12,446.0	119.0	220.9	161.40	6,667.0	-11.5	2,070.0	1,911.7	158.31	13.075	
17,700.0	10,484.3	19,560.0	12,446.0	120.6	223.9	161.42	6,767.0	-12.5	2,071.6	1,911.3	160.32	12.922	
17,800.0	10,482.6	19,660.0	12,446.0	122.2	226.9	161.44	6,867.0	-13.5	2,073.3	1,910.9	162.33	12.772	
17,900.0	10,480.8	19,760.0	12,446.0	123.7	229.9	161.45	6,966.9	-14.5	2,074.9	1,910.6	164.34	12.626	
18,000.0	10,479.1	19,860.0	12,446.0	125.3	232.9	161.47	7,066.9	-15.5	2,076.6	1,910.2	166.35	12.483	
18,100.0	10,477.3	19,960.0	12,446.0	126.9	236.0	161.48	7,166.9	-16.5	2,078.2	1,909.9	168.36	12.344	
18,200.0	10,475.6	20,060.0	12,446.0	128.5	239.0	161.50	7,266.9	-17.5	2,079.9	1,909.5	170.38	12.208	
18,300.0	10,473.8	20,159.9	12,446.0	130.1	242.0	161.51	7,366.9	-18.5	2,081.6	1,909.2	172.39	12.075	
18,400.0	10,472.1	20,259.9	12,446.0	131.7	245.0	161.53	7,466.8	-19.5	2,083.2	1,908.8	174.40	11.945	
18,500.0	10,470.3	20,359.9	12,446.0	133.2	248.0	161.54	7,566.8	-20.5	2,084.9	1,908.4	176.41	11.818	
18,600.0	10,468.6	20,459.9	12,446.0	134.8	251.0	161.56	7,666.8	-21.5	2,086.5	1,908.1	178.42	11.694	
18,700.0	10,466.8	20,559.9	12,446.0	136.4	254.1	161.57	7,766.8	-22.5	2,088.2	1,907.7	180.44	11.573	
18,800.0	10,465.1	20,659.9	12,446.0	138.0	257.1	161.59	7,866.8	-23.5	2,089.8	1,907.4	182.45	11.454	
18,900.0	10,463.3	20,759.9	12,446.0	139.6	260.1	161.60	7,966.7	-24.5	2,091.5	1,907.0	184.46	11.338	
19,000.0	10,461.6	20,859.8	12,446.0	141.2	263.1	161.62	8,066.7	-25.5	2,093.1	1,906.7	186.47	11.225	
19,100.0	10,459.9	20,959.8	12,446.0	142.8	266.1	161.64	8,166.7	-26.5	2,094.8	1,906.3	188.49	11.114	

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Rodney Robinson Fed Com #128H
Project:	Antelope Ridge	TVD Reference:	KB @ 3747.5usft
Reference Site:	Rodney Robinson	MD Reference:	KB @ 3747.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Rodney Robinson Fed Com #128H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance					Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)		Separation Factor
19,200.0	10,458.1	21,059.8	12,446.0	144.4	269.2	161.65	8,266.7	-27.5	2,096.4	1,906.0	190.50	11.005	
19,300.0	10,456.4	21,159.8	12,446.0	146.0	272.2	161.67	8,366.7	-28.5	2,098.1	1,905.6	192.51	10.899	
19,400.0	10,454.6	21,259.8	12,446.0	147.6	275.2	161.68	8,466.6	-29.5	2,099.8	1,905.2	194.52	10.795	
19,500.0	10,452.9	21,359.8	12,446.0	149.2	278.3	161.70	8,566.6	-30.5	2,101.4	1,904.9	196.53	10.692	
19,600.0	10,451.1	21,459.7	12,446.0	150.8	281.3	161.71	8,666.6	-31.5	2,103.1	1,904.5	198.54	10.593	
19,700.0	10,449.4	21,559.7	12,446.0	152.4	284.3	161.73	8,766.6	-32.5	2,104.7	1,904.2	200.55	10.495	
19,800.0	10,447.6	21,659.7	12,446.0	154.0	287.4	161.74	8,866.6	-33.5	2,106.4	1,903.8	202.56	10.399	
19,900.0	10,445.9	21,759.7	12,446.0	155.6	290.4	161.76	8,966.5	-34.5	2,108.0	1,903.5	204.57	10.305	
20,000.0	10,444.1	21,859.7	12,446.0	157.2	293.4	161.77	9,066.5	-35.5	2,109.7	1,903.1	206.58	10.212	
20,100.0	10,442.4	21,959.7	12,446.0	158.8	296.5	161.79	9,166.5	-36.5	2,111.4	1,902.8	208.59	10.122	
20,200.0	10,440.7	22,059.7	12,446.0	160.4	299.5	161.80	9,266.5	-37.5	2,113.0	1,902.4	210.60	10.033	
20,300.0	10,438.9	22,159.6	12,446.0	162.0	302.5	161.82	9,366.5	-38.5	2,114.7	1,902.1	212.61	9.946	
20,400.0	10,437.2	22,259.6	12,446.0	163.6	305.6	161.83	9,466.4	-39.5	2,116.3	1,901.7	214.62	9.861	
20,500.0	10,435.4	22,359.6	12,446.0	165.3	308.6	161.85	9,566.4	-40.5	2,118.0	1,901.4	216.62	9.777	
20,600.0	10,433.7	22,459.6	12,446.0	166.9	311.6	161.86	9,666.4	-41.5	2,119.6	1,901.0	218.63	9.695	
20,700.0	10,431.9	22,559.6	12,446.0	168.5	314.7	161.88	9,766.4	-42.5	2,121.3	1,900.7	220.64	9.614	
20,800.0	10,430.2	22,659.6	12,446.0	170.1	317.7	161.89	9,866.4	-43.6	2,123.0	1,900.3	222.64	9.535	
20,867.4	10,429.0	22,722.9	12,446.0	171.2	319.6	161.90	9,929.6	-44.2	2,124.1	1,900.2	223.91	9.486 SF	

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Rodney Robinson Fed Com #128H
Project:	Antelope Ridge	TVD Reference:	KB @ 3747.5usft
Reference Site:	Rodney Robinson	MD Reference:	KB @ 3747.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Rodney Robinson Fed Com #128H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft	
Survey Program: 0-MWD													Offset Well Error:		0.0 usft
Reference				Offset			Semi Major Axis			Distance			Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Tooface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
0.0	0.0	1.0	1.0	0.0	0.0	-90.39	-0.2	-30.0	30.0						
100.0	100.0	101.0	101.0	0.1	0.1	-90.39	-0.2	-30.0	30.0	29.8	0.26	115.553			
200.0	200.0	201.0	201.0	0.5	0.5	-90.39	-0.2	-30.0	30.0	29.1	0.98	30.743			
300.0	300.0	301.0	301.0	0.8	0.8	-90.39	-0.2	-30.0	30.0	28.3	1.69	17.730			
400.0	400.0	401.0	401.0	1.2	1.2	-90.39	-0.2	-30.0	30.0	27.6	2.41	12.457			
500.0	500.0	501.0	501.0	1.6	1.6	-90.39	-0.2	-30.0	30.0	26.9	3.13	9.602			
600.0	600.0	601.0	601.0	1.9	1.9	-90.39	-0.2	-30.0	30.0	26.2	3.84	7.811			
700.0	700.0	701.0	701.0	2.3	2.3	-90.39	-0.2	-30.0	30.0	25.5	4.56	6.584			
800.0	800.0	801.0	801.0	2.6	2.6	-90.39	-0.2	-30.0	30.0	24.8	5.28	5.689			
900.0	900.0	901.0	901.0	3.0	3.0	-90.39	-0.2	-30.0	30.0	24.0	6.00	5.009			
1,000.0	1,000.0	1,001.0	1,001.0	3.4	3.4	-90.39	-0.2	-30.0	30.0	23.3	6.71	4.474			
1,100.0	1,100.0	1,101.0	1,101.0	3.7	3.7	-90.39	-0.2	-30.0	30.0	22.6	7.43	4.042			
1,200.0	1,200.0	1,201.0	1,201.0	4.1	4.1	-90.39	-0.2	-30.0	30.0	21.9	8.15	3.687			
1,300.0	1,300.0	1,301.0	1,301.0	4.4	4.4	-90.39	-0.2	-30.0	30.0	21.2	8.86	3.388			
1,400.0	1,400.0	1,401.0	1,401.0	4.8	4.8	-90.39	-0.2	-30.0	30.0	20.5	9.58	3.135			
1,500.0	1,500.0	1,501.0	1,501.0	5.1	5.2	-90.39	-0.2	-30.0	30.0	19.7	10.30	2.916			
1,600.0	1,600.0	1,601.0	1,601.0	5.5	5.5	40.13	-0.2	-30.0	29.4	18.4	11.00	2.669			
1,700.0	1,700.0	1,701.0	1,701.0	5.8	5.9	43.67	-0.2	-30.0	27.4	15.7	11.69	2.345			
1,800.0	1,799.9	1,800.9	1,800.9	6.2	6.2	50.77	-0.2	-30.0	24.4	12.1	12.38	1.974			
1,900.0	1,899.7	1,900.7	1,900.7	6.5	6.6	63.72	-0.2	-30.0	21.1	8.0	13.08	1.614			
2,000.0	1,999.4	2,000.4	2,000.4	6.8	6.9	85.43	-0.2	-30.0	19.0	5.2	13.78	1.377	Level 3		
2,017.1	2,016.4	2,017.4	2,017.4	6.9	7.0	90.00	-0.2	-30.0	18.9	5.0	13.90	1.361	Level 3, CC, ES, SF		
2,100.0	2,098.9	2,100.1	2,099.9	7.2	7.3	112.98	-0.2	-30.0	20.6	6.1	14.49	1.420	Level 3		
2,200.0	2,198.3	2,200.7	2,199.3	7.5	7.7	135.48	-0.2	-30.0	27.1	11.9	15.20	1.783			
2,300.0	2,297.4	2,301.6	2,298.4	7.9	8.0	149.50	-0.2	-30.0	37.6	21.7	15.90	2.362			
2,400.0	2,396.4	2,402.6	2,397.4	8.3	8.4	157.60	-0.2	-30.0	50.1	33.5	16.60	3.015			
2,500.0	2,495.5	2,496.5	2,496.5	8.7	8.7	162.41	-0.2	-30.0	63.2	45.9	17.29	3.655			
2,600.0	2,594.5	2,596.8	2,596.7	9.0	9.1	165.69	-0.9	-30.4	75.8	57.8	17.98	4.215			
2,700.0	2,693.5	2,697.5	2,697.4	9.4	9.4	168.27	-3.2	-31.6	86.8	68.2	18.65	4.655			
2,800.0	2,792.5	2,798.5	2,798.4	9.8	9.7	170.53	-7.1	-33.5	96.3	77.0	19.33	4.984			
2,900.0	2,891.6	2,899.9	2,899.5	10.2	10.1	172.64	-12.6	-36.3	104.3	84.3	20.01	5.212			
3,000.0	2,990.6	3,001.4	3,000.8	10.6	10.4	174.75	-19.8	-39.9	110.6	89.9	20.68	5.349			
3,100.0	3,089.6	3,102.0	3,100.9	11.0	10.7	176.86	-28.1	-44.2	115.7	94.4	21.37	5.417			
3,200.0	3,188.6	3,201.8	3,200.3	11.4	11.1	178.80	-36.6	-48.5	120.8	98.8	22.06	5.477			
3,300.0	3,287.7	3,301.6	3,299.6	11.8	11.4	-179.42	-45.0	-52.7	126.1	103.3	22.76	5.539			
3,400.0	3,386.7	3,401.4	3,398.9	12.2	11.8	-177.78	-53.5	-57.0	131.4	107.9	23.46	5.601			
3,500.0	3,485.7	3,501.2	3,498.3	12.6	12.1	-176.27	-62.0	-61.3	136.8	112.7	24.17	5.662			
3,600.0	3,584.8	3,600.9	3,597.6	13.0	12.5	-174.88	-70.4	-65.6	142.4	117.5	24.88	5.723			
3,700.0	3,683.8	3,700.7	3,696.9	13.4	12.8	-173.59	-78.9	-69.9	148.0	122.4	25.59	5.783			
3,800.0	3,782.8	3,800.5	3,796.3	13.8	13.2	-172.39	-87.3	-74.2	153.6	127.3	26.30	5.841			
3,900.0	3,881.8	3,900.3	3,895.6	14.2	13.5	-171.28	-95.8	-78.4	159.4	132.4	27.02	5.898			
4,000.0	3,980.9	4,000.1	3,995.0	14.6	13.9	-170.25	-104.2	-82.7	165.2	137.4	27.74	5.954			
4,100.0	4,079.9	4,099.9	4,094.3	15.0	14.3	-169.29	-112.7	-87.0	171.0	142.5	28.46	6.008			
4,200.0	4,178.9	4,200.3	4,193.6	15.4	14.6	-168.39	-121.1	-91.3	176.9	147.7	29.19	6.059			
4,300.0	4,277.9	4,300.5	4,293.0	15.8	15.0	-167.55	-129.6	-95.6	182.8	152.9	29.92	6.110			
4,400.0	4,377.0	4,400.7	4,392.3	16.3	15.4	-166.76	-138.0	-99.9	188.8	158.1	30.65	6.158			
4,500.0	4,476.0	4,501.0	4,491.7	16.7	15.7	-166.02	-146.5	-104.1	194.8	163.4	31.39	6.205			
4,600.0	4,575.0	4,601.2	4,591.0	17.1	16.1	-165.33	-154.9	-108.4	200.8	168.7	32.12	6.251			
4,700.0	4,674.0	4,701.4	4,690.3	17.5	16.5	-164.67	-163.4	-112.7	206.8	174.0	32.86	6.295			
4,800.0	4,773.1	4,801.6	4,789.7	17.9	16.8	-164.06	-171.8	-117.0	212.9	179.3	33.60	6.337			
4,900.0	4,872.1	4,901.8	4,889.0	18.3	17.2	-163.47	-180.3	-121.3	219.0	184.7	34.34	6.378			
5,000.0	4,971.1	5,002.0	4,988.3	18.7	17.6	-162.92	-188.8	-125.6	225.2	190.1	35.08	6.417			

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Rodney Robinson Fed Com #128H
Project:	Antelope Ridge	TVD Reference:	KB @ 3747.5usft
Reference Site:	Rodney Robinson	MD Reference:	KB @ 3747.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Rodney Robinson Fed Com #128H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												Offset Well Error:	0.0 usft
Reference				Offset		Semi Major Axis			Distance				Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Tooface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,100.0	5,070.2	5,097.8	5,087.7	19.2	17.9	-162.40	-197.2	-129.8	231.3	195.5	35.81	6.458	
5,200.0	5,169.2	5,202.4	5,187.0	19.6	18.3	-161.90	-205.7	-134.1	237.5	200.9	36.57	6.492	
5,300.0	5,268.2	5,297.4	5,286.4	20.0	18.7	-161.43	-214.1	-138.4	243.6	206.3	37.30	6.531	
5,400.0	5,367.2	5,402.8	5,385.7	20.4	19.1	-160.99	-222.6	-142.7	249.8	211.8	38.07	6.563	
5,500.0	5,466.3	5,503.1	5,485.0	20.8	19.5	-160.56	-231.0	-147.0	256.0	217.2	38.82	6.596	
5,600.0	5,565.3	5,603.3	5,584.4	21.2	19.8	-160.16	-239.5	-151.2	262.3	222.7	39.57	6.628	
5,700.0	5,664.3	5,703.5	5,683.7	21.6	20.2	-159.77	-247.9	-155.5	268.5	228.2	40.32	6.659	
5,800.0	5,763.3	5,803.7	5,783.1	22.1	20.6	-159.40	-256.4	-159.8	274.7	233.7	41.07	6.689	
5,900.0	5,862.4	5,903.9	5,882.4	22.5	21.0	-159.05	-264.8	-164.1	281.0	239.2	41.83	6.718	
6,000.0	5,961.4	6,004.1	5,981.7	22.9	21.4	-158.71	-273.3	-168.4	287.3	244.7	42.58	6.746	
6,100.0	6,060.4	6,095.7	6,081.1	23.3	21.7	-158.39	-281.7	-172.7	293.5	250.2	43.30	6.779	
6,200.0	6,159.4	6,204.5	6,180.4	23.7	22.1	-158.08	-290.2	-176.9	299.8	255.7	44.09	6.800	
6,300.0	6,258.5	6,304.7	6,279.7	24.2	22.5	-157.79	-298.7	-181.2	306.1	261.3	44.85	6.826	
6,400.0	6,357.5	6,404.9	6,379.1	24.6	22.9	-157.50	-307.1	-185.5	312.4	266.8	45.60	6.851	
6,500.0	6,456.5	6,505.2	6,478.4	25.0	23.3	-157.23	-315.6	-189.8	318.7	272.4	46.36	6.875	
6,600.0	6,555.6	6,605.4	6,577.8	25.4	23.6	-156.97	-324.0	-194.1	325.0	277.9	47.12	6.898	
6,700.0	6,654.6	6,705.6	6,677.1	25.8	24.0	-156.71	-332.5	-198.4	331.4	283.5	47.88	6.921	
6,800.0	6,753.6	6,805.8	6,776.4	26.3	24.4	-156.47	-340.9	-202.6	337.7	289.0	48.64	6.943	
6,900.0	6,852.6	6,906.0	6,875.8	26.7	24.8	-156.24	-349.4	-206.9	344.0	294.6	49.40	6.964	
7,000.0	6,951.7	7,006.2	6,975.1	27.1	25.2	-156.01	-357.8	-211.2	350.4	300.2	50.16	6.985	
7,100.0	7,050.7	7,093.6	7,074.5	27.5	25.5	-155.79	-366.3	-215.5	356.7	305.8	50.87	7.012	
7,200.0	7,149.7	7,206.6	7,173.8	27.9	25.9	-155.58	-374.7	-219.8	363.1	311.4	51.68	7.025	
7,300.0	7,248.7	7,306.8	7,273.1	28.4	26.3	-155.38	-383.2	-224.1	369.4	317.0	52.45	7.044	
7,400.0	7,347.8	7,407.1	7,372.5	28.8	26.7	-155.19	-391.6	-228.3	375.8	322.6	53.21	7.062	
7,500.0	7,446.8	7,507.3	7,471.8	29.2	27.1	-155.00	-400.1	-232.6	382.1	328.2	53.97	7.080	
7,598.2	7,544.1	7,609.3	7,569.4	29.6	27.5	-154.82	-408.4	-236.8	388.4	333.6	54.74	7.096	
7,600.0	7,545.8	7,607.5	7,571.2	29.6	27.5	-154.81	-408.5	-236.9	388.5	333.8	54.74	7.098	
7,700.0	7,645.0	7,692.4	7,670.5	30.0	27.8	-154.59	-417.0	-241.2	393.6	338.2	55.44	7.100	
7,800.0	7,744.5	7,807.7	7,770.0	30.4	28.2	-154.18	-425.5	-245.5	396.4	340.2	56.27	7.046	
7,900.0	7,844.3	7,907.8	7,869.5	30.8	28.6	-153.61	-433.9	-249.8	396.9	339.9	57.04	6.959	
8,000.0	7,944.1	8,007.9	7,968.9	31.2	29.0	-152.85	-442.4	-254.0	395.1	337.3	57.81	6.835	
8,100.0	8,044.1	8,108.2	8,068.1	31.5	29.4	-151.88	-450.8	-258.3	391.0	332.5	58.59	6.675	
8,131.5	8,075.7	8,123.2	8,099.4	31.6	29.5	79.02	-453.5	-259.7	389.3	330.5	58.77	6.625	
8,200.0	8,144.1	8,208.7	8,167.2	31.8	29.8	79.78	-459.3	-262.6	385.3	326.0	59.35	6.493	
8,300.0	8,244.1	8,309.1	8,266.3	32.1	30.2	80.92	-467.7	-266.9	379.7	319.6	60.11	6.316	
8,400.0	8,344.1	8,409.6	8,365.4	32.4	30.6	82.10	-476.1	-271.1	374.2	313.3	60.88	6.146	
8,500.0	8,444.1	8,490.0	8,464.5	32.7	30.9	83.31	-484.6	-275.4	368.8	307.2	61.57	5.990	
8,600.0	8,544.1	8,589.5	8,563.6	33.0	31.3	84.55	-493.0	-279.7	363.6	301.3	62.34	5.833	
8,700.0	8,644.1	8,689.1	8,662.7	33.3	31.6	85.83	-501.4	-284.0	358.6	295.5	63.12	5.682	
8,800.0	8,744.1	8,788.6	8,761.8	33.6	32.0	87.14	-509.9	-288.2	353.8	289.9	63.89	5.537	
8,900.0	8,844.1	8,884.1	8,857.0	34.0	32.4	88.27	-517.0	-291.8	349.7	285.1	64.63	5.411	
9,000.0	8,944.1	8,979.8	8,952.5	34.3	32.7	89.08	-521.9	-294.3	347.0	281.7	65.34	5.311	
9,100.0	9,044.1	9,075.7	9,048.4	34.6	33.1	89.54	-524.8	-295.8	345.5	279.4	66.01	5.234	
9,200.0	9,144.1	9,172.4	9,145.1	34.9	33.4	89.66	-525.5	-296.1	345.1	278.4	66.64	5.178	
9,300.0	9,244.1	9,272.4	9,245.1	35.2	33.7	89.66	-525.5	-296.1	345.1	277.8	67.29	5.128	
9,400.0	9,344.1	9,372.4	9,345.1	35.5	34.1	89.66	-525.5	-296.1	345.1	277.1	67.95	5.079	
9,500.0	9,444.1	9,472.4	9,445.1	35.8	34.4	89.66	-525.5	-296.1	345.1	276.5	68.60	5.030	
9,600.0	9,544.1	9,572.4	9,545.1	36.2	34.7	89.66	-525.5	-296.1	345.1	275.8	69.25	4.983	
9,700.0	9,644.1	9,672.4	9,645.1	36.5	35.0	89.66	-525.5	-296.1	345.1	275.2	69.91	4.936	
9,800.0	9,744.1	9,772.4	9,745.1	36.8	35.4	89.66	-525.5	-296.1	345.1	274.5	70.57	4.890	
9,900.0	9,844.1	9,872.4	9,845.1	37.1	35.7	89.66	-525.5	-296.1	345.1	273.8	71.22	4.845	
10,000.0	9,944.1	9,972.4	9,945.1	37.4	36.0	89.66	-525.5	-296.1	345.1	273.2	71.88	4.800	

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Rodney Robinson Fed Com #128H
Project:	Antelope Ridge	TVD Reference:	KB @ 3747.5usft
Reference Site:	Rodney Robinson	MD Reference:	KB @ 3747.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Rodney Robinson Fed Com #128H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												Offset Well Error:	0.0 usft
Reference				Offset		Semi Major Axis			Distance				Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
10,082.9	10,027.0	10,055.3	10,028.0	37.7	36.3	89.66	-525.5	-296.1	345.1	272.6	72.43	4.764	
10,100.0	10,044.1	10,072.4	10,045.1	37.8	36.3	86.71	-525.5	-296.1	345.1	272.5	72.54	4.756	
10,150.0	10,094.0	10,122.3	10,095.0	37.9	36.5	87.33	-525.5	-296.1	344.9	272.0	72.90	4.731	
10,200.0	10,143.3	10,171.6	10,144.3	38.0	36.7	88.67	-525.5	-296.1	344.6	271.3	73.27	4.703	
10,235.1	10,177.4	10,205.7	10,178.4	38.1	36.8	90.00	-525.5	-296.1	344.5	270.9	73.54	4.684	
10,250.0	10,191.8	10,220.1	10,192.8	38.2	36.8	90.65	-525.5	-296.1	344.5	270.8	73.66	4.677	
10,300.0	10,239.0	10,267.3	10,240.0	38.3	37.0	93.17	-525.5	-296.1	345.1	271.0	74.07	4.659	
10,350.0	10,284.5	10,312.9	10,285.5	38.4	37.1	96.08	-525.5	-296.1	346.9	272.4	74.47	4.658	
10,400.0	10,328.2	10,356.5	10,329.2	38.4	37.3	99.18	-525.5	-296.1	350.6	275.8	74.87	4.683	
10,450.0	10,369.5	10,402.2	10,370.5	38.5	37.4	102.28	-525.5	-296.1	357.0	281.7	75.26	4.743	
10,500.0	10,408.2	10,436.6	10,409.2	38.5	37.5	105.17	-525.5	-296.1	366.5	290.9	75.58	4.849	
10,550.0	10,444.1	10,472.4	10,445.1	38.5	37.7	107.67	-525.5	-296.1	379.8	304.0	75.87	5.006	
10,600.0	10,476.7	10,505.0	10,477.7	38.6	37.8	109.59	-525.5	-296.1	397.3	321.2	76.09	5.221	
10,650.0	10,505.9	10,534.3	10,506.9	38.6	37.9	110.80	-525.5	-296.1	418.9	342.7	76.25	5.494	
10,700.0	10,531.5	10,559.9	10,532.5	38.5	38.0	111.16	-525.5	-296.1	444.8	368.4	76.35	5.825	
10,750.0	10,553.3	10,581.6	10,554.3	38.5	38.0	110.53	-525.5	-296.1	474.5	398.1	76.40	6.211	
10,800.0	10,571.0	10,600.6	10,572.0	38.5	38.1	108.77	-525.5	-296.1	507.8	431.4	76.40	6.646	
10,850.0	10,584.6	10,613.0	10,585.6	38.4	38.1	105.70	-525.5	-296.1	544.1	467.7	76.36	7.125	
10,900.0	10,594.0	10,622.3	10,595.0	38.4	38.2	101.13	-525.5	-296.1	582.9	506.6	76.30	7.640	
10,950.0	10,599.0	10,627.4	10,600.0	38.4	38.2	94.95	-525.5	-296.1	623.8	547.5	76.22	8.183	
10,982.9	10,600.0	10,628.3	10,601.0	38.3	38.2	90.00	-525.5	-296.1	651.4	575.2	76.16	8.553	
11,000.0	10,599.9	10,628.3	10,600.9	38.3	38.2	89.85	-525.5	-296.1	666.0	589.9	76.13	8.749	
11,100.0	10,599.3	10,627.6	10,600.3	38.2	38.2	88.65	-525.5	-296.1	754.4	678.4	75.97	9.931	
11,168.3	10,598.3	10,626.7	10,599.3	38.2	38.2	87.50	-525.5	-296.1	817.1	741.2	75.88	10.769	
11,200.0	10,597.8	10,626.1	10,598.8	38.3	38.2	87.40	-525.5	-296.1	846.5	770.7	75.84	11.163	
11,300.0	10,596.0	10,624.4	10,597.0	38.6	38.2	87.07	-525.5	-296.1	940.6	864.8	75.73	12.419	
11,400.0	10,594.3	10,622.6	10,595.3	39.1	38.2	86.74	-525.5	-296.1	1,035.7	960.0	75.65	13.691	
11,500.0	10,592.5	10,620.9	10,593.5	39.6	38.2	86.41	-525.5	-296.1	1,131.7	1,056.1	75.58	14.973	
11,600.0	10,590.8	10,619.1	10,591.8	40.1	38.1	86.08	-525.5	-296.1	1,228.3	1,152.8	75.52	16.264	
11,700.0	10,589.1	10,617.4	10,590.1	40.7	38.1	85.76	-525.5	-296.1	1,325.4	1,249.9	75.48	17.560	
11,800.0	10,587.3	10,615.6	10,588.3	41.4	38.1	85.43	-525.5	-296.1	1,422.9	1,347.5	75.44	18.862	
11,900.0	10,585.6	10,613.9	10,586.6	42.1	38.1	85.10	-525.5	-296.1	1,520.7	1,445.3	75.40	20.168	
12,000.0	10,583.8	10,612.2	10,584.8	42.9	38.1	84.78	-525.5	-296.1	1,618.8	1,543.5	75.38	21.476	
12,100.0	10,582.1	10,610.4	10,583.1	43.7	38.1	84.45	-525.5	-296.1	1,717.1	1,641.8	75.36	22.787	
12,200.0	10,580.3	10,608.7	10,581.3	44.6	38.1	84.12	-525.5	-296.1	1,815.6	1,740.3	75.34	24.100	
12,300.0	10,578.6	10,606.9	10,579.6	45.5	38.1	83.80	-525.5	-296.1	1,914.3	1,839.0	75.33	25.414	
12,400.0	10,576.8	10,605.2	10,577.8	46.4	38.1	83.47	-525.5	-296.1	2,013.1	1,937.8	75.32	26.729	
12,500.0	10,575.1	10,603.4	10,576.1	47.4	38.1	83.15	-525.5	-296.1	2,112.0	2,036.7	75.31	28.044	
12,600.0	10,573.3	10,601.7	10,574.3	48.4	38.1	82.82	-525.5	-296.1	2,211.0	2,135.7	75.30	29.361	
12,700.0	10,571.6	10,600.1	10,572.6	49.4	38.1	82.50	-525.5	-296.1	2,310.0	2,234.7	75.30	30.677	
12,800.0	10,569.9	10,601.8	10,570.9	50.5	38.1	82.17	-525.5	-296.1	2,409.2	2,333.9	75.32	31.988	
12,900.0	10,568.1	10,603.6	10,569.1	51.6	38.1	81.85	-525.5	-296.1	2,508.4	2,433.1	75.33	33.299	
13,000.0	10,566.4	10,605.3	10,567.4	52.8	38.1	81.53	-525.5	-296.1	2,607.7	2,532.3	75.35	34.609	
13,100.0	10,564.6	15,808.7	13,154.2	53.9	61.1	165.70	2,235.6	32.9	2,672.3	2,609.2	63.09	42.357	
13,200.0	10,562.9	15,908.7	13,151.5	55.1	62.1	165.69	2,335.5	31.9	2,671.4	2,607.0	64.39	41.486	
13,300.0	10,561.1	16,008.7	13,148.9	56.3	63.2	165.69	2,435.5	30.9	2,670.6	2,604.9	65.72	40.636	
13,400.0	10,559.4	16,108.7	13,146.3	57.6	64.4	165.68	2,535.5	29.9	2,669.7	2,602.7	67.06	39.810	
13,500.0	10,557.6	16,208.7	13,143.7	58.8	65.5	165.68	2,635.4	28.9	2,668.9	2,600.5	68.42	39.006	
13,600.0	10,555.9	16,308.7	13,141.1	60.1	66.7	165.67	2,735.4	27.9	2,668.1	2,598.3	69.80	38.225	
13,700.0	10,554.1	16,408.7	13,138.5	61.4	67.9	165.67	2,835.3	26.9	2,667.2	2,596.0	71.19	37.466	
13,800.0	10,552.4	16,508.7	13,135.9	62.7	69.1	165.67	2,935.3	25.9	2,666.4	2,593.8	72.60	36.728	
13,900.0	10,550.6	16,608.7	13,133.3	64.0	70.3	165.66	3,035.2	24.9	2,665.5	2,591.5	74.02	36.013	

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Rodney Robinson Fed Com #128H
Project:	Antelope Ridge	TVD Reference:	KB @ 3747.5usft
Reference Site:	Rodney Robinson	MD Reference:	KB @ 3747.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Rodney Robinson Fed Com #128H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft		
Survey Program: 0-MWD													Rodney Robinson - Rodney Robinson Fed Com #224H - Wellbore #1 - BLM Plan #1		Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
14,000.0	10,548.9	16,708.7	13,130.6	65.4	71.6	165.66	3,135.2	23.9	2,664.7	2,589.2	75.45	35.318				
14,100.0	10,547.2	16,808.7	13,128.0	66.7	72.8	165.65	3,235.2	22.9	2,663.8	2,587.0	76.89	34.643				
14,200.0	10,545.4	16,908.7	13,125.4	68.1	74.1	165.65	3,335.1	21.9	2,663.0	2,584.7	78.35	33.988				
14,300.0	10,543.7	17,008.7	13,122.8	69.5	75.4	165.64	3,435.1	20.9	2,662.2	2,582.3	79.82	33.353				
14,400.0	10,541.9	17,091.3	13,120.2	70.9	76.5	165.64	3,535.0	19.9	2,661.3	2,580.1	81.17	32.786				
14,500.0	10,540.2	17,208.7	13,117.6	72.3	78.0	165.63	3,635.0	18.9	2,660.5	2,577.7	82.78	32.138				
14,600.0	10,538.4	17,308.7	13,115.0	73.7	79.3	165.63	3,734.9	17.9	2,659.6	2,575.4	84.28	31.557				
14,700.0	10,536.7	17,408.7	13,112.3	75.1	80.7	165.62	3,834.9	16.9	2,658.8	2,573.0	85.79	30.993				
14,800.0	10,534.9	17,508.7	13,109.7	76.5	82.0	165.62	3,934.9	15.9	2,658.0	2,570.7	87.30	30.446				
14,900.0	10,533.2	17,608.7	13,107.1	78.0	83.4	165.61	4,034.8	14.9	2,657.1	2,568.3	88.82	29.915				
15,000.0	10,531.4	17,708.7	13,104.5	79.4	84.8	165.61	4,134.8	13.9	2,656.3	2,565.9	90.35	29.399				
15,100.0	10,529.7	17,808.7	13,101.9	80.9	86.2	165.61	4,234.7	12.9	2,655.4	2,563.5	91.89	28.898				
15,200.0	10,527.9	17,908.8	13,099.3	82.4	87.6	165.60	4,334.7	11.9	2,654.6	2,561.2	93.43	28.412				
15,300.0	10,526.2	18,008.8	13,096.7	83.8	89.0	165.60	4,434.6	10.9	2,653.7	2,558.8	94.98	27.939				
15,400.0	10,524.5	18,108.8	13,094.1	85.3	90.4	165.59	4,534.6	9.9	2,652.9	2,556.4	96.54	27.480				
15,500.0	10,522.7	18,208.8	13,091.4	86.8	91.8	165.59	4,634.6	8.9	2,652.1	2,554.0	98.10	27.034				
15,600.0	10,521.0	18,308.8	13,088.8	88.3	93.3	165.58	4,734.5	7.9	2,651.2	2,551.6	99.67	26.600				
15,700.0	10,519.2	18,408.8	13,086.2	89.8	94.7	165.58	4,834.5	6.9	2,650.4	2,549.1	101.25	26.178				
15,800.0	10,517.5	18,508.8	13,083.6	91.3	96.1	165.57	4,934.4	5.9	2,649.5	2,546.7	102.82	25.768				
15,900.0	10,515.7	18,608.8	13,081.0	92.8	97.6	165.57	5,034.4	4.9	2,648.7	2,544.3	104.41	25.369				
16,000.0	10,514.0	18,691.2	13,078.4	94.3	98.8	165.56	5,134.3	3.9	2,647.9	2,542.0	105.86	25.012				
16,100.0	10,512.2	18,791.2	13,075.8	95.8	100.2	165.56	5,234.3	2.9	2,647.0	2,539.6	107.46	24.634				
16,200.0	10,510.5	18,908.8	13,073.1	97.3	102.0	165.56	5,334.3	1.9	2,646.2	2,537.0	109.19	24.235				
16,300.0	10,508.7	19,008.8	13,070.5	98.9	103.5	165.55	5,434.2	0.9	2,645.3	2,534.5	110.79	23.877				
16,400.0	10,507.0	19,108.8	13,067.9	100.4	104.9	165.55	5,534.2	-0.1	2,644.5	2,532.1	112.40	23.528				
16,500.0	10,505.3	19,208.8	13,065.3	101.9	106.4	165.54	5,634.1	-1.1	2,643.7	2,529.6	114.01	23.188				
16,600.0	10,503.5	19,308.8	13,062.7	103.5	107.9	165.54	5,734.1	-2.1	2,642.8	2,527.2	115.62	22.857				
16,700.0	10,501.8	19,408.8	13,060.1	105.0	109.4	165.53	5,834.0	-3.1	2,642.0	2,524.7	117.24	22.535				
16,800.0	10,500.0	19,508.8	13,057.5	106.6	110.9	165.53	5,934.0	-4.1	2,641.1	2,522.3	118.86	22.220				
16,900.0	10,498.3	19,608.8	13,054.9	108.1	112.4	165.52	6,034.0	-5.1	2,640.3	2,519.8	120.49	21.914				
17,000.0	10,496.5	19,691.2	13,052.2	109.7	113.7	165.52	6,133.9	-6.1	2,639.4	2,517.5	121.97	21.640				
17,100.0	10,494.8	19,808.8	13,049.6	111.2	115.4	165.51	6,233.9	-7.1	2,638.6	2,514.9	123.74	21.323				
17,200.0	10,493.0	19,908.8	13,047.0	112.8	117.0	165.51	6,333.8	-8.1	2,637.8	2,512.4	125.38	21.039				
17,300.0	10,491.3	20,008.8	13,044.4	114.3	118.5	165.50	6,433.8	-9.1	2,636.9	2,509.9	127.01	20.761				
17,400.0	10,489.5	20,108.8	13,041.8	115.9	120.0	165.50	6,533.7	-10.1	2,636.1	2,507.4	128.65	20.490				
17,500.0	10,487.8	20,208.8	13,039.2	117.5	121.5	165.49	6,633.7	-11.1	2,635.2	2,504.9	130.30	20.225				
17,600.0	10,486.0	20,308.8	13,036.6	119.0	123.1	165.49	6,733.7	-12.1	2,634.4	2,502.5	131.94	19.967				
17,700.0	10,484.3	20,408.8	13,033.9	120.6	124.6	165.49	6,833.6	-13.1	2,633.6	2,500.0	133.59	19.714				
17,800.0	10,482.6	20,508.8	13,031.3	122.2	126.1	165.48	6,933.6	-14.1	2,632.7	2,497.5	135.24	19.467				
17,900.0	10,480.8	20,591.1	13,028.7	123.7	127.4	165.48	7,033.5	-15.1	2,631.9	2,495.1	136.75	19.247				
18,000.0	10,479.1	20,708.9	13,026.1	125.3	129.2	165.47	7,133.5	-16.1	2,631.0	2,492.5	138.54	18.991				
18,100.0	10,477.3	20,808.9	13,023.5	126.9	130.8	165.47	7,233.4	-17.1	2,630.2	2,490.0	140.20	18.760				
18,200.0	10,475.6	20,908.9	13,020.9	128.5	132.3	165.46	7,333.4	-18.1	2,629.4	2,487.5	141.86	18.535				
18,300.0	10,473.8	21,008.9	13,018.3	130.1	133.9	165.46	7,433.3	-19.1	2,628.5	2,485.0	143.52	18.315				
18,400.0	10,472.1	21,108.9	13,015.6	131.7	135.4	165.45	7,533.3	-20.1	2,627.7	2,482.5	145.18	18.099				
18,500.0	10,470.3	21,208.9	13,013.0	133.2	137.0	165.45	7,633.3	-21.1	2,626.8	2,480.0	146.85	17.888				
18,600.0	10,468.6	21,291.1	13,010.4	134.8	138.2	165.44	7,733.2	-22.1	2,626.0	2,477.6	148.37	17.699				
18,700.0	10,466.8	21,391.1	13,007.8	136.4	139.8	165.44	7,833.2	-23.1	2,625.2	2,475.1	150.03	17.497				
18,800.0	10,465.1	21,508.9	13,005.2	138.0	141.6	165.43	7,933.1	-24.1	2,624.3	2,472.5	151.85	17.282				
18,900.0	10,463.3	21,608.9	13,002.6	139.6	143.2	165.43	8,033.1	-25.1	2,623.5	2,469.9	153.52	17.089				
19,000.0	10,461.6	21,708.9	13,000.0	141.2	144.8	165.42	8,133.0	-26.1	2,622.6	2,467.4	155.20	16.899				
19,100.0	10,459.9	21,808.9	12,997.4	142.8	146.4	165.42	8,233.0	-27.1	2,621.8	2,464.9	156.87	16.713				

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Rodney Robinson Fed Com #128H
Project:	Antelope Ridge	TVD Reference:	KB @ 3747.5usft
Reference Site:	Rodney Robinson	MD Reference:	KB @ 3747.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Rodney Robinson Fed Com #128H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft		
Survey Program: 0-MWD													Rodney Robinson - Rodney Robinson Fed Com #224H - Wellbore #1 - BLM Plan #1		Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
19,200.0	10,458.1	21,908.9	12,994.7	144.4	147.9	165.42	8,333.0	-28.1	2,620.9	2,462.4	158.55	16.531				
19,300.0	10,456.4	22,008.9	12,992.1	146.0	149.5	165.41	8,432.9	-29.1	2,620.1	2,459.9	160.22	16.353				
19,400.0	10,454.6	22,108.9	12,989.5	147.6	151.1	165.41	8,532.9	-30.1	2,619.3	2,457.4	161.90	16.178				
19,500.0	10,452.9	22,191.1	12,986.9	149.2	152.4	165.40	8,632.8	-31.1	2,618.4	2,455.0	163.44	16.021				
19,600.0	10,451.1	22,291.1	12,984.3	150.8	153.9	165.40	8,732.8	-32.1	2,617.6	2,452.5	165.12	15.853				
19,700.0	10,449.4	22,408.9	12,981.7	152.4	155.8	165.39	8,832.7	-33.1	2,616.7	2,449.8	166.95	15.674				
19,800.0	10,447.6	22,508.9	12,979.1	154.0	157.4	165.39	8,932.7	-34.1	2,615.9	2,447.3	168.64	15.512				
19,900.0	10,445.9	22,608.9	12,976.4	155.6	159.0	165.38	9,032.7	-35.1	2,615.1	2,444.7	170.32	15.353				
20,000.0	10,444.1	22,708.9	12,973.8	157.2	160.6	165.38	9,132.6	-36.1	2,614.2	2,442.2	172.01	15.198				
20,100.0	10,442.4	22,808.9	12,971.2	158.8	162.1	165.37	9,232.6	-37.1	2,613.4	2,439.7	173.70	15.045				
20,200.0	10,440.7	22,908.9	12,968.6	160.4	163.7	165.37	9,332.5	-38.1	2,612.5	2,437.2	175.39	14.895				
20,300.0	10,438.9	23,008.9	12,966.0	162.0	165.3	165.36	9,432.5	-39.1	2,611.7	2,434.6	177.08	14.748				
20,400.0	10,437.2	23,108.9	12,963.4	163.6	166.9	165.36	9,532.4	-40.1	2,610.9	2,432.1	178.78	14.604				
20,500.0	10,435.4	23,208.9	12,960.8	165.3	168.5	165.35	9,632.4	-41.1	2,610.0	2,429.6	180.47	14.462				
20,600.0	10,433.7	23,309.0	12,958.2	166.9	170.1	165.35	9,732.4	-42.1	2,609.2	2,427.0	182.16	14.323				
20,700.0	10,431.9	23,391.0	12,955.5	168.5	171.4	165.34	9,832.3	-43.1	2,608.3	2,424.6	183.71	14.198				
20,800.0	10,430.2	23,491.0	12,952.9	170.1	173.0	165.34	9,932.3	-44.1	2,607.5	2,422.1	185.41	14.064				
20,819.2	10,429.8	23,488.3	12,953.0	170.4	172.9	165.34	9,929.5	-44.1	2,607.4	2,422.0	185.44	14.061				
20,867.4	10,429.0	23,488.3	12,953.0	171.2	172.9	165.34	9,929.5	-44.1	2,607.9	2,422.3	185.57	14.053				

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Rodney Robinson Fed Com #128H
Project:	Antelope Ridge	TVD Reference:	KB @ 3747.5usft
Reference Site:	Rodney Robinson	MD Reference:	KB @ 3747.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Rodney Robinson Fed Com #128H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference				Offset			Semi Major Axis			Distance			Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	1.0	1.0	0.0	0.0	-135.40	-30.2	-29.8	42.4					
100.0	100.0	101.0	101.0	0.1	0.1	-135.40	-30.2	-29.8	42.4	42.2	0.26	163.286		
200.0	200.0	201.0	201.0	0.5	0.5	-135.40	-30.2	-29.8	42.4	41.5	0.98	43.443		
300.0	300.0	301.0	301.0	0.8	0.8	-135.40	-30.2	-29.8	42.4	40.7	1.69	25.054		
400.0	400.0	401.0	401.0	1.2	1.2	-135.40	-30.2	-29.8	42.4	40.0	2.41	17.603		
500.0	500.0	501.0	501.0	1.6	1.6	-135.40	-30.2	-29.8	42.4	39.3	3.13	13.568		
600.0	600.0	601.0	601.0	1.9	1.9	-135.40	-30.2	-29.8	42.4	38.6	3.84	11.038		
700.0	700.0	701.0	701.0	2.3	2.3	-135.40	-30.2	-29.8	42.4	37.9	4.56	9.303		
800.0	800.0	801.0	801.0	2.6	2.6	-135.40	-30.2	-29.8	42.4	37.2	5.28	8.040		
900.0	900.0	901.0	901.0	3.0	3.0	-135.40	-30.2	-29.8	42.4	36.4	6.00	7.078		
1,000.0	1,000.0	1,001.0	1,001.0	3.4	3.4	-135.40	-30.2	-29.8	42.4	35.7	6.71	6.322	CC	
1,100.0	1,100.0	1,100.6	1,100.6	3.7	3.7	-136.43	-31.1	-29.6	42.9	35.5	7.41	5.787	ES	
1,200.0	1,200.0	1,200.2	1,200.1	4.1	4.0	-139.33	-33.6	-28.9	44.3	36.2	8.10	5.470		
1,300.0	1,300.0	1,299.6	1,299.5	4.4	4.4	-143.75	-37.8	-27.7	46.8	38.1	8.78	5.333	SF	
1,400.0	1,400.0	1,398.9	1,398.6	4.8	4.7	-149.13	-43.6	-26.1	50.8	41.4	9.48	5.365		
1,500.0	1,500.0	1,497.9	1,497.3	5.1	5.0	-154.85	-51.0	-24.0	56.5	46.3	10.17	5.558		
1,600.0	1,600.0	1,596.7	1,595.6	5.5	5.4	-31.30	-60.1	-21.4	63.3	52.5	10.84	5.839		
1,700.0	1,700.0	1,695.1	1,693.4	5.8	5.7	-37.51	-70.8	-18.4	70.7	59.2	11.50	6.152		
1,800.0	1,799.9	1,806.8	1,790.6	6.2	6.1	-43.78	-83.0	-15.0	79.2	67.0	12.20	6.490		
1,900.0	1,899.7	1,907.6	1,888.9	6.5	6.5	-49.87	-96.3	-11.3	88.2	75.3	12.88	6.847		
2,000.0	1,999.4	2,008.5	1,987.1	6.8	6.9	-55.62	-109.6	-7.6	97.1	83.5	13.57	7.153		
2,100.0	2,098.9	2,090.6	2,085.2	7.2	7.2	-61.16	-122.9	-3.9	105.9	91.7	14.21	7.457		
2,200.0	2,198.3	2,189.7	2,183.3	7.5	7.6	-66.58	-136.1	-0.1	115.0	100.0	14.91	7.710		
2,300.0	2,297.4	2,288.6	2,281.2	7.9	8.0	-71.91	-149.4	3.6	124.3	108.7	15.63	7.956		
2,400.0	2,396.4	2,387.4	2,379.1	8.3	8.4	-76.90	-162.6	7.3	134.5	118.1	16.36	8.220		
2,500.0	2,495.5	2,486.3	2,477.0	8.7	8.8	-81.17	-175.9	11.0	145.5	128.4	17.10	8.507		
2,600.0	2,594.5	2,585.1	2,574.9	9.0	9.2	-84.83	-189.1	14.7	157.2	139.3	17.85	8.804		
2,700.0	2,693.5	2,683.9	2,672.7	9.4	9.6	-87.98	-202.4	18.4	169.4	150.8	18.61	9.103		
2,800.0	2,792.5	2,782.8	2,770.6	9.8	10.0	-90.70	-215.6	22.1	182.1	162.7	19.37	9.399		
2,900.0	2,891.6	2,881.6	2,868.5	10.2	10.4	-93.06	-228.9	25.8	195.1	175.0	20.14	9.687		
3,000.0	2,990.6	2,980.5	2,966.4	10.6	10.8	-95.12	-242.1	29.5	208.5	187.5	20.92	9.966		
3,100.0	3,089.6	3,079.3	3,064.3	11.0	11.2	-96.94	-255.4	33.3	222.0	200.3	21.69	10.234		
3,200.0	3,188.6	3,178.2	3,162.2	11.4	11.6	-98.55	-268.6	37.0	235.8	213.3	22.47	10.491		
3,300.0	3,287.7	3,277.0	3,260.0	11.8	12.0	-99.98	-281.9	40.7	249.7	226.4	23.26	10.736		
3,400.0	3,386.7	3,375.9	3,357.9	12.2	12.4	-101.25	-295.1	44.4	263.8	239.7	24.04	10.970		
3,500.0	3,485.7	3,474.7	3,455.8	12.6	12.8	-102.40	-308.4	48.1	277.9	253.1	24.83	11.193		
3,600.0	3,584.8	3,573.5	3,553.7	13.0	13.3	-103.44	-321.6	51.8	292.2	266.6	25.62	11.405		
3,700.0	3,683.8	3,672.4	3,651.6	13.4	13.7	-104.38	-334.8	55.5	306.5	280.1	26.41	11.608		
3,800.0	3,782.8	3,771.2	3,749.5	13.8	14.1	-105.23	-348.1	59.2	321.0	293.8	27.20	11.800		
3,900.0	3,881.8	3,870.1	3,847.3	14.2	14.5	-106.02	-361.3	62.9	335.5	307.5	27.99	11.984		
4,000.0	3,980.9	3,968.9	3,945.2	14.6	14.9	-106.73	-374.6	66.6	350.0	321.2	28.79	12.158		
4,100.0	4,079.9	4,067.8	4,043.1	15.0	15.3	-107.39	-387.8	70.4	364.6	335.0	29.58	12.325		
4,200.0	4,178.9	4,166.6	4,141.0	15.4	15.7	-108.00	-401.1	74.1	379.3	348.9	30.38	12.484		
4,300.0	4,277.9	4,265.5	4,238.9	15.8	16.1	-108.57	-414.3	77.8	393.9	362.8	31.18	12.636		
4,400.0	4,377.0	4,364.3	4,336.8	16.3	16.5	-109.09	-427.6	81.5	408.7	376.7	31.97	12.781		
4,500.0	4,476.0	4,463.1	4,434.6	16.7	17.0	-109.58	-440.8	85.2	423.4	390.6	32.77	12.919		
4,600.0	4,575.0	4,562.0	4,532.5	17.1	17.4	-110.03	-454.1	88.9	438.2	404.6	33.57	13.052		
4,700.0	4,674.0	4,660.8	4,630.4	17.5	17.8	-110.46	-467.3	92.6	453.0	418.6	34.37	13.178		
4,800.0	4,773.1	4,759.7	4,728.3	17.9	18.2	-110.86	-480.6	96.3	467.8	432.6	35.17	13.300		
4,900.0	4,872.1	4,861.5	4,829.1	18.3	18.6	-111.25	-494.1	100.1	482.5	446.5	36.00	13.403		
5,000.0	4,971.1	4,970.2	4,937.1	18.7	19.1	-111.85	-506.2	103.5	495.8	458.9	36.88	13.445		
5,100.0	5,070.2	5,079.2	5,045.6	19.2	19.5	-112.67	-515.5	106.1	507.2	469.5	37.73	13.442		

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Rodney Robinson Fed Com #128H
Project:	Antelope Ridge	TVD Reference:	KB @ 3747.5usft
Reference Site:	Rodney Robinson	MD Reference:	KB @ 3747.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Rodney Robinson Fed Com #128H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference				Offset			Semi Major Axis			Distance			Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.0	5,169.2	5,188.3	5,154.5	19.6	19.9	-113.70	-521.7	107.8	516.8	478.2	38.56	13.401		
5,300.0	5,268.2	5,297.3	5,263.5	20.0	20.3	-114.95	-525.0	108.8	524.6	485.3	39.37	13.326		
5,400.0	5,367.2	5,402.0	5,368.2	20.4	20.6	-116.34	-525.5	108.9	531.0	490.9	40.12	13.236		
5,500.0	5,466.3	5,501.1	5,467.3	20.8	20.9	-117.66	-525.5	108.9	537.4	496.5	40.84	13.157		
5,600.0	5,565.3	5,600.1	5,566.3	21.2	21.2	-118.95	-525.5	108.9	544.0	502.5	41.56	13.089		
5,700.0	5,664.3	5,700.9	5,665.3	21.6	21.5	-120.20	-525.5	108.9	551.0	508.7	42.29	13.029		
5,800.0	5,763.3	5,801.9	5,764.3	22.1	21.8	-121.43	-525.5	108.9	558.1	515.1	43.01	12.977		
5,900.0	5,862.4	5,902.8	5,863.4	22.5	22.1	-122.62	-525.5	108.9	565.6	521.8	43.73	12.933		
6,000.0	5,961.4	6,003.8	5,962.4	22.9	22.4	-123.79	-525.5	108.9	573.2	528.8	44.45	12.897		
6,100.0	6,060.4	6,104.8	6,061.4	23.3	22.8	-124.92	-525.5	108.9	581.2	536.0	45.16	12.868		
6,200.0	6,159.4	6,205.8	6,160.4	23.7	23.1	-126.02	-525.5	108.9	589.3	543.4	45.88	12.845		
6,300.0	6,258.5	6,306.7	6,259.5	24.2	23.4	-127.10	-525.5	108.9	597.6	551.0	46.59	12.828		
6,400.0	6,357.5	6,407.7	6,358.5	24.6	23.7	-128.14	-525.5	108.9	606.2	558.9	47.30	12.816		
6,500.0	6,456.5	6,508.7	6,457.5	25.0	24.0	-129.15	-525.5	108.9	614.9	566.9	48.01	12.809		
6,600.0	6,555.6	6,609.7	6,556.6	25.4	24.3	-130.14	-525.5	108.9	623.8	575.1	48.71	12.806		
6,700.0	6,654.6	6,689.4	6,655.6	25.8	24.6	-131.10	-525.5	108.9	633.0	583.6	49.35	12.826		
6,800.0	6,753.6	6,788.4	6,754.6	26.3	24.9	-132.03	-525.5	108.9	642.2	592.2	50.05	12.832		
6,900.0	6,852.6	6,887.4	6,853.6	26.7	25.2	-132.93	-525.5	108.9	651.7	600.9	50.75	12.842		
7,000.0	6,951.7	6,986.5	6,952.7	27.1	25.6	-133.81	-525.5	108.9	661.3	609.9	51.44	12.855		
7,100.0	7,050.7	7,085.5	7,051.7	27.5	25.9	-134.66	-525.5	108.9	671.1	618.9	52.14	12.870		
7,200.0	7,149.7	7,184.5	7,150.7	27.9	26.2	-135.49	-525.5	108.9	681.0	628.1	52.83	12.888		
7,300.0	7,248.7	7,283.5	7,249.7	28.4	26.5	-136.30	-525.5	108.9	691.0	637.5	53.53	12.909		
7,400.0	7,347.8	7,382.6	7,348.8	28.8	26.8	-137.08	-525.5	108.9	701.2	647.0	54.22	12.931		
7,500.0	7,446.8	7,481.6	7,447.8	29.2	27.2	-137.84	-525.5	108.9	711.5	656.6	54.92	12.955		
7,598.2	7,544.1	7,578.8	7,545.1	29.6	27.5	-138.57	-525.5	108.9	721.7	666.1	55.60	12.981		
7,600.0	7,545.8	7,580.6	7,546.8	29.6	27.5	-138.58	-525.5	108.9	721.9	666.3	55.61	12.981		
7,700.0	7,645.0	7,679.8	7,646.0	30.0	27.8	-139.32	-525.5	108.9	731.4	675.1	56.30	12.991		
7,800.0	7,744.5	7,779.3	7,745.5	30.4	28.1	-139.90	-525.5	108.9	739.0	682.0	56.99	12.968		
7,900.0	7,844.3	7,879.0	7,845.3	30.8	28.5	-140.32	-525.5	108.9	747.7	687.0	57.67	12.913		
8,000.0	7,944.1	7,978.9	7,945.1	31.2	28.8	-140.59	-525.5	108.9	748.3	690.0	58.35	12.825		
8,100.0	8,044.1	8,078.9	8,045.1	31.5	29.1	-140.70	-525.5	108.9	750.0	691.0	59.02	12.707		
8,131.5	8,075.7	8,110.4	8,076.7	31.6	29.2	89.84	-525.5	108.9	750.1	690.9	59.23	12.664		
8,200.0	8,144.1	8,178.9	8,145.1	31.8	29.5	89.84	-525.5	108.9	750.1	690.4	59.67	12.570		
8,300.0	8,244.1	8,278.9	8,245.1	32.1	29.8	89.84	-525.5	108.9	750.1	689.8	60.32	12.434		
8,400.0	8,344.1	8,378.9	8,345.1	32.4	30.1	89.84	-525.5	108.9	750.1	689.1	60.98	12.301		
8,500.0	8,444.1	8,478.9	8,445.1	32.7	30.5	89.84	-525.5	108.9	750.1	688.5	61.63	12.171		
8,600.0	8,544.1	8,578.9	8,545.1	33.0	30.8	89.84	-525.5	108.9	750.1	687.8	62.28	12.043		
8,700.0	8,644.1	8,678.9	8,645.1	33.3	31.1	89.84	-525.5	108.9	750.1	687.2	62.94	11.918		
8,800.0	8,744.1	8,778.9	8,745.1	33.6	31.5	89.84	-525.5	108.9	750.1	686.5	63.60	11.795		
8,900.0	8,844.1	8,878.9	8,845.1	34.0	31.8	89.84	-525.5	108.9	750.1	685.8	64.25	11.674		
9,000.0	8,944.1	8,978.9	8,945.1	34.3	32.1	89.84	-525.5	108.9	750.1	685.2	64.91	11.555		
9,100.0	9,044.1	9,078.9	9,045.1	34.6	32.5	89.84	-525.5	108.9	750.1	684.5	65.57	11.439		
9,200.0	9,144.1	9,178.9	9,145.1	34.9	32.8	89.84	-525.5	108.9	750.1	683.9	66.24	11.325		
9,300.0	9,244.1	9,278.9	9,245.1	35.2	33.2	89.84	-525.5	108.9	750.1	683.2	66.90	11.212		
9,400.0	9,344.1	9,378.9	9,345.1	35.5	33.5	89.84	-525.5	108.9	750.1	682.5	67.56	11.102		
9,500.0	9,444.1	9,478.9	9,445.1	35.8	33.8	89.84	-525.5	108.9	750.1	681.9	68.23	10.994		
9,600.0	9,544.1	9,578.9	9,545.1	36.2	34.2	89.84	-525.5	108.9	750.1	681.2	68.89	10.888		
9,700.0	9,644.1	9,678.9	9,645.1	36.5	34.5	89.84	-525.5	108.9	750.1	680.5	69.56	10.783		
9,800.0	9,744.1	9,778.9	9,745.1	36.8	34.8	89.84	-525.5	108.9	750.1	679.9	70.23	10.681		
9,900.0	9,844.1	9,878.9	9,845.1	37.1	35.2	89.84	-525.5	108.9	750.1	679.2	70.90	10.580		
10,000.0	9,944.1	9,978.9	9,945.1	37.4	35.5	89.84	-525.5	108.9	750.1	678.5	71.57	10.481		
10,082.9	10,027.0	10,061.8	10,028.0	37.7	35.8	89.84	-525.5	108.9	750.1	678.0	72.13	10.400		

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Rodney Robinson Fed Com #128H
Project:	Antelope Ridge	TVD Reference:	KB @ 3747.5usft
Reference Site:	Rodney Robinson	MD Reference:	KB @ 3747.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Rodney Robinson Fed Com #128H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference				Offset		Semi Major Axis			Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,100.0	10,044.1	10,078.9	10,045.1	37.8	35.9	86.87	-525.5	108.9	750.1	677.8	72.24	10.383		
10,150.0	10,094.0	10,128.7	10,095.0	37.9	36.0	87.16	-525.5	108.9	749.9	677.3	72.57	10.333		
10,200.0	10,143.3	10,178.1	10,144.3	38.0	36.2	87.80	-525.5	108.9	749.5	676.6	72.90	10.282		
10,250.0	10,191.8	10,226.5	10,192.8	38.2	36.4	88.75	-525.5	108.9	749.2	675.9	73.22	10.232		
10,300.0	10,239.0	10,273.7	10,240.0	38.3	36.5	89.95	-525.5	108.9	749.0	675.4	73.52	10.187		
10,301.7	10,240.6	10,275.4	10,241.6	38.3	36.5	90.00	-525.5	108.9	749.0	675.4	73.53	10.185		
10,350.0	10,284.5	10,319.3	10,285.5	38.4	36.7	91.36	-525.5	108.9	749.2	675.4	73.82	10.149		
10,400.0	10,328.2	10,363.0	10,329.2	38.4	36.8	92.88	-525.5	108.9	750.3	676.2	74.10	10.125		
10,450.0	10,369.5	10,404.3	10,370.5	38.5	37.0	94.43	-525.5	108.9	752.4	678.1	74.36	10.119		
10,500.0	10,408.2	10,443.0	10,409.2	38.5	37.1	95.92	-525.5	108.9	756.1	681.5	74.60	10.136		
10,550.0	10,444.1	10,478.9	10,445.1	38.5	37.2	97.24	-525.5	108.9	761.7	686.9	74.82	10.181		
10,600.0	10,476.7	10,511.5	10,477.7	38.6	37.3	98.31	-525.5	108.9	769.5	694.5	75.01	10.259		
10,650.0	10,505.9	10,540.7	10,506.9	38.6	37.4	99.04	-525.5	108.9	779.8	704.6	75.17	10.374		
10,700.0	10,531.5	10,566.3	10,532.5	38.5	37.5	99.35	-525.5	108.9	792.8	717.5	75.31	10.528		
10,750.0	10,553.3	10,588.1	10,554.3	38.5	37.6	99.15	-525.5	108.9	808.7	733.3	75.41	10.725		
10,800.0	10,571.0	10,605.8	10,572.0	38.5	37.7	98.39	-525.5	108.9	827.5	752.0	75.48	10.963		
10,850.0	10,584.6	10,619.4	10,585.6	38.4	37.7	97.00	-525.5	108.9	849.1	773.5	75.52	11.243		
10,900.0	10,594.0	10,628.8	10,595.0	38.4	37.7	94.94	-525.5	108.9	873.3	797.7	75.53	11.563		
10,950.0	10,599.0	10,633.8	10,600.0	38.4	37.8	92.19	-525.5	108.9	899.9	824.3	75.51	11.918		
10,982.9	10,600.0	10,634.8	10,601.0	38.3	37.8	90.00	-525.5	108.9	918.5	843.0	75.48	12.169		
11,000.0	10,599.9	10,634.7	10,600.9	38.3	37.8	89.93	-525.5	108.9	928.5	853.1	75.46	12.305		
11,100.0	10,599.3	10,634.1	10,600.3	38.2	37.8	89.41	-525.5	108.9	992.6	917.2	75.37	13.169		
11,168.3	10,598.3	10,633.1	10,599.3	38.2	37.8	88.92	-525.5	108.9	1,041.0	965.7	75.32	13.821		
11,200.0	10,597.8	10,632.6	10,598.8	38.3	37.8	88.88	-525.5	108.9	1,064.4	989.1	75.30	14.136		
11,300.0	10,596.0	10,630.8	10,597.0	38.6	37.8	88.74	-525.5	108.9	1,141.0	1,065.7	75.23	15.166		
11,400.0	10,594.3	10,629.1	10,595.3	39.1	37.7	88.60	-525.5	108.9	1,220.9	1,145.7	75.18	16.241		
11,500.0	10,592.5	10,627.3	10,593.5	39.6	37.7	88.46	-525.5	108.9	1,303.6	1,228.5	75.13	17.352		
11,600.0	10,590.8	10,625.6	10,591.8	40.1	37.7	88.31	-525.5	108.9	1,388.6	1,313.5	75.09	18.492		
11,700.0	10,589.1	10,623.8	10,590.1	40.7	37.7	88.17	-525.5	108.9	1,475.5	1,400.4	75.06	19.657		
11,800.0	10,587.3	10,622.1	10,588.3	41.4	37.7	88.03	-525.5	108.9	1,563.9	1,488.9	75.04	20.841		
11,900.0	10,585.6	10,620.4	10,586.6	42.1	37.7	87.89	-525.5	108.9	1,653.7	1,578.7	75.02	22.043		
12,000.0	10,583.8	10,618.6	10,584.8	42.9	37.7	87.75	-525.5	108.9	1,744.5	1,669.5	75.01	23.259		
12,100.0	10,582.1	10,616.9	10,583.1	43.7	37.7	87.61	-525.5	108.9	1,836.4	1,761.4	75.00	24.486		
12,200.0	10,580.3	10,615.1	10,581.3	44.6	37.7	87.47	-525.5	108.9	1,929.0	1,854.0	74.99	25.723		
12,300.0	10,578.6	10,613.4	10,579.6	45.5	37.7	87.33	-525.5	108.9	2,022.3	1,947.3	74.99	26.969		
12,400.0	10,576.8	10,611.6	10,577.8	46.4	37.7	87.19	-525.5	108.9	2,116.2	2,041.3	74.98	28.222		
12,500.0	10,575.1	10,609.9	10,576.1	47.4	37.7	87.05	-525.5	108.9	2,210.7	2,135.7	74.99	29.482		
12,600.0	10,573.3	10,608.1	10,574.3	48.4	37.7	86.91	-525.5	108.9	2,305.6	2,230.7	74.99	30.746		
12,700.0	10,571.6	10,606.4	10,572.6	49.4	37.7	86.76	-525.5	108.9	2,401.0	2,326.0	75.00	32.015		
12,800.0	10,569.9	10,604.6	10,570.9	50.5	37.7	86.62	-525.5	108.9	2,496.7	2,421.7	75.00	33.288		
12,900.0	10,568.1	10,602.9	10,569.1	51.6	37.7	86.48	-525.5	108.9	2,592.7	2,517.7	75.01	34.563		
13,000.0	10,566.4	10,601.2	10,567.4	52.8	37.6	86.34	-525.5	108.9	2,689.0	2,614.0	75.02	35.842		
13,100.0	10,564.6	10,600.6	10,565.6	53.9	37.6	86.20	-525.5	108.9	2,785.6	2,710.6	75.04	37.121		
13,200.0	10,562.9	10,602.3	10,563.9	55.1	37.7	86.06	-525.5	108.9	2,882.4	2,807.4	75.07	38.398		
13,300.0	10,561.1	10,604.1	10,562.1	56.3	37.7	85.92	-525.5	108.9	2,979.4	2,904.3	75.10	39.675		
13,400.0	10,559.4	10,605.8	10,560.4	57.6	37.7	85.78	-525.5	108.9	3,076.6	3,001.5	75.13	40.954		
13,500.0	10,557.6	10,607.6	10,558.6	58.8	37.7	85.64	-525.5	108.9	3,174.0	3,098.9	75.16	42.233		
13,600.0	10,555.9	16,867.4	13,732.0	60.1	68.7	168.27	2,750.9	27.2	3,243.9	3,175.6	68.36	47.455		
13,700.0	10,554.1	16,967.4	13,729.4	61.4	69.8	168.27	2,850.8	26.2	3,243.1	3,173.4	69.69	46.534		
13,800.0	10,552.4	17,067.4	13,726.7	62.7	71.0	168.26	2,950.8	25.2	3,242.2	3,171.2	71.04	45.639		
13,900.0	10,550.6	17,167.4	13,724.1	64.0	72.3	168.26	3,050.8	24.2	3,241.4	3,169.0	72.40	44.768		
14,000.0	10,548.9	17,267.4	13,721.5	65.4	73.5	168.26	3,150.7	23.2	3,240.5	3,166.8	73.78	43.922		

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Rodney Robinson Fed Com #128H
Project:	Antelope Ridge	TVD Reference:	KB @ 3747.5usft
Reference Site:	Rodney Robinson	MD Reference:	KB @ 3747.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Rodney Robinson Fed Com #128H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft	
Survey Program: 0-MWD													Offset Well Error:		0.0 usft
Reference				Offset			Semi Major Axis			Distance			Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Tooface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
14,100.0	10,547.2	17,367.4	13,718.9	66.7	74.8	168.25	3,250.7	22.2	3,239.7	3,164.5	75.17	43.100			
14,200.0	10,545.4	17,467.4	13,716.3	68.1	76.0	168.25	3,350.6	21.2	3,238.8	3,162.3	76.56	42.302			
14,300.0	10,543.7	17,567.4	13,713.7	69.5	77.3	168.25	3,450.6	20.2	3,238.0	3,160.0	77.97	41.526			
14,400.0	10,541.9	17,667.4	13,711.0	70.9	78.6	168.24	3,550.5	19.2	3,237.1	3,157.7	79.39	40.773			
14,500.0	10,540.2	17,767.4	13,708.4	72.3	79.9	168.24	3,650.5	18.2	3,236.3	3,155.4	80.82	40.041			
14,600.0	10,538.4	17,867.4	13,705.8	73.7	81.2	168.24	3,750.5	17.2	3,235.4	3,153.2	82.26	39.330			
14,700.0	10,536.7	17,967.4	13,703.2	75.1	82.6	168.23	3,850.4	16.3	3,234.6	3,150.9	83.71	38.640			
14,800.0	10,534.9	18,067.4	13,700.6	76.5	83.9	168.23	3,950.4	15.3	3,233.7	3,148.5	85.17	37.969			
14,900.0	10,533.2	18,167.3	13,698.0	78.0	85.3	168.23	4,050.3	14.3	3,232.9	3,146.2	86.63	37.317			
15,000.0	10,531.4	18,267.3	13,695.3	79.4	86.7	168.22	4,150.3	13.3	3,232.0	3,143.9	88.10	36.684			
15,100.0	10,529.7	18,367.3	13,692.7	80.9	88.0	168.22	4,250.2	12.3	3,231.2	3,141.6	89.58	36.069			
15,200.0	10,527.9	18,467.3	13,690.1	82.4	89.4	168.22	4,350.2	11.3	3,230.3	3,139.2	91.07	35.471			
15,300.0	10,526.2	18,567.3	13,687.5	83.8	90.8	168.21	4,450.2	10.3	3,229.5	3,136.9	92.56	34.890			
15,400.0	10,524.5	18,667.3	13,684.9	85.3	92.2	168.21	4,550.1	9.3	3,228.6	3,134.5	94.06	34.324			
15,500.0	10,522.7	18,767.3	13,682.2	86.8	93.6	168.21	4,650.1	8.3	3,227.7	3,132.2	95.57	33.775			
15,600.0	10,521.0	18,867.3	13,679.6	88.3	95.1	168.20	4,750.0	7.3	3,226.9	3,129.8	97.08	33.240			
15,700.0	10,519.2	18,967.3	13,677.0	89.8	96.5	168.20	4,850.0	6.3	3,226.0	3,127.4	98.59	32.721			
15,800.0	10,517.5	19,067.3	13,674.4	91.3	97.9	168.20	4,949.9	5.3	3,225.2	3,125.1	100.12	32.215			
15,900.0	10,515.7	19,167.3	13,671.8	92.8	99.4	168.19	5,049.9	4.3	3,224.3	3,122.7	101.64	31.722			
16,000.0	10,514.0	19,267.3	13,669.2	94.3	100.8	168.19	5,149.9	3.4	3,223.5	3,120.3	103.17	31.243			
16,100.0	10,512.2	19,367.3	13,666.5	95.8	102.3	168.19	5,249.8	2.4	3,222.6	3,117.9	104.71	30.777			
16,200.0	10,510.5	19,467.3	13,663.9	97.3	103.7	168.18	5,349.8	1.4	3,221.8	3,115.5	106.25	30.322			
16,300.0	10,508.7	19,567.3	13,661.3	98.9	105.2	168.18	5,449.7	0.4	3,220.9	3,113.1	107.80	29.880			
16,400.0	10,507.0	19,667.3	13,658.7	100.4	106.7	168.18	5,549.7	-0.6	3,220.1	3,110.7	109.34	29.449			
16,500.0	10,505.3	19,767.3	13,656.1	101.9	108.2	168.17	5,649.6	-1.6	3,219.2	3,108.3	110.90	29.029			
16,600.0	10,503.5	19,867.3	13,653.5	103.5	109.6	168.17	5,749.6	-2.6	3,218.4	3,105.9	112.45	28.619			
16,700.0	10,501.8	19,967.3	13,650.8	105.0	111.1	168.17	5,849.6	-3.6	3,217.5	3,103.5	114.01	28.220			
16,800.0	10,500.0	20,067.3	13,648.2	106.6	112.6	168.16	5,949.5	-4.6	3,216.7	3,101.1	115.58	27.831			
16,900.0	10,498.3	20,167.3	13,645.6	108.1	114.1	168.16	6,049.5	-5.6	3,215.8	3,098.7	117.15	27.451			
17,000.0	10,496.5	20,267.3	13,643.0	109.7	115.6	168.16	6,149.4	-6.6	3,215.0	3,096.2	118.72	27.081			
17,100.0	10,494.8	20,367.3	13,640.4	111.2	117.1	168.15	6,249.4	-7.6	3,214.1	3,093.8	120.29	26.720			
17,200.0	10,493.0	20,467.3	13,637.7	112.8	118.6	168.15	6,349.3	-8.6	3,213.3	3,091.4	121.87	26.367			
17,300.0	10,491.3	20,567.3	13,635.1	114.3	120.2	168.15	6,449.3	-9.5	3,212.4	3,089.0	123.45	26.023			
17,400.0	10,489.5	20,667.3	13,632.5	115.9	121.7	168.14	6,549.3	-10.5	3,211.5	3,086.5	125.03	25.687			
17,500.0	10,487.8	20,767.3	13,629.9	117.5	123.2	168.14	6,649.2	-11.5	3,210.7	3,084.1	126.61	25.359			
17,600.0	10,486.0	20,867.2	13,627.3	119.0	124.7	168.14	6,749.2	-12.5	3,209.8	3,081.6	128.20	25.038			
17,700.0	10,484.3	20,967.2	13,624.7	120.6	126.2	168.14	6,849.1	-13.5	3,209.0	3,079.2	129.79	24.725			
17,800.0	10,482.6	21,067.2	13,622.0	122.2	127.8	168.13	6,949.1	-14.5	3,208.1	3,076.8	131.38	24.418			
17,900.0	10,480.8	21,167.2	13,619.4	123.7	129.3	168.13	7,049.0	-15.5	3,207.3	3,074.3	132.98	24.119			
18,000.0	10,479.1	21,267.2	13,616.8	125.3	130.9	168.13	7,149.0	-16.5	3,206.4	3,071.9	134.57	23.827			
18,100.0	10,477.3	21,367.2	13,614.2	126.9	132.4	168.12	7,249.0	-17.5	3,205.6	3,069.4	136.17	23.541			
18,200.0	10,475.6	21,467.2	13,611.6	128.5	133.9	168.12	7,348.9	-18.5	3,204.7	3,067.0	137.77	23.261			
18,300.0	10,473.8	21,567.2	13,609.0	130.1	135.5	168.12	7,448.9	-19.5	3,203.9	3,064.5	139.38	22.987			
18,400.0	10,472.1	21,667.2	13,606.3	131.7	137.0	168.11	7,548.8	-20.5	3,203.0	3,062.0	140.98	22.719			
18,500.0	10,470.3	21,767.2	13,603.7	133.2	138.6	168.11	7,648.8	-21.5	3,202.2	3,059.6	142.59	22.457			
18,600.0	10,468.6	21,867.2	13,601.1	134.8	140.1	168.11	7,748.7	-22.4	3,201.3	3,057.1	144.20	22.201			
18,700.0	10,466.8	21,967.2	13,598.5	136.4	141.7	168.10	7,848.7	-23.4	3,200.5	3,054.7	145.81	21.950			
18,800.0	10,465.1	22,067.2	13,595.9	138.0	143.2	168.10	7,948.7	-24.4	3,199.6	3,052.2	147.42	21.704			
18,900.0	10,463.3	22,167.2	13,593.3	139.6	144.8	168.10	8,048.6	-25.4	3,198.8	3,049.7	149.04	21.463			
19,000.0	10,461.6	22,267.2	13,590.6	141.2	146.4	168.09	8,148.6	-26.4	3,197.9	3,047.3	150.65	21.227			
19,100.0	10,459.9	22,367.2	13,588.0	142.8	147.9	168.09	8,248.5	-27.4	3,197.1	3,044.8	152.27	20.996			
19,200.0	10,458.1	22,467.2	13,585.4	144.4	149.5	168.09	8,348.5	-28.4	3,196.2	3,042.3	153.89	20.770			

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Rodney Robinson Fed Com #128H
Project:	Antelope Ridge	TVD Reference:	KB @ 3747.5usft
Reference Site:	Rodney Robinson	MD Reference:	KB @ 3747.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Rodney Robinson Fed Com #128H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance					Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,300.0	10,456.4	22,567.2	13,582.8	146.0	151.1	168.08	8,448.4	-29.4	3,195.4	3,039.8	155.51	20.548	
19,400.0	10,454.6	22,667.2	13,580.2	147.6	152.6	168.08	8,548.4	-30.4	3,194.5	3,037.4	157.13	20.330	
19,500.0	10,452.9	22,767.2	13,577.5	149.2	154.2	168.08	8,648.4	-31.4	3,193.7	3,034.9	158.75	20.117	
19,600.0	10,451.1	22,867.2	13,574.9	150.8	155.8	168.07	8,748.3	-32.4	3,192.8	3,032.4	160.38	19.908	
19,700.0	10,449.4	22,967.2	13,572.3	152.4	157.4	168.07	8,848.3	-33.4	3,191.9	3,029.9	162.01	19.703	
19,800.0	10,447.6	23,067.2	13,569.7	154.0	158.9	168.07	8,948.2	-34.4	3,191.1	3,027.5	163.63	19.502	
19,900.0	10,445.9	23,167.2	13,567.1	155.6	160.5	168.06	9,048.2	-35.3	3,190.2	3,025.0	165.26	19.304	
20,000.0	10,444.1	23,267.2	13,564.5	157.2	162.1	168.06	9,148.1	-36.3	3,189.4	3,022.5	166.89	19.111	
20,100.0	10,442.4	23,367.2	13,561.8	158.8	163.7	168.06	9,248.1	-37.3	3,188.5	3,020.0	168.52	18.921	
20,200.0	10,440.7	23,467.1	13,559.2	160.4	165.3	168.05	9,348.1	-38.3	3,187.7	3,017.5	170.16	18.734	
20,300.0	10,438.9	23,567.1	13,556.6	162.0	166.8	168.05	9,448.0	-39.3	3,186.8	3,015.0	171.79	18.551	
20,400.0	10,437.2	23,667.1	13,554.0	163.6	168.4	168.05	9,548.0	-40.3	3,186.0	3,012.6	173.42	18.371	
20,500.0	10,435.4	23,767.1	13,551.4	165.3	170.0	168.04	9,647.9	-41.3	3,185.1	3,010.1	175.06	18.195	
20,600.0	10,433.7	23,867.1	13,548.8	166.9	171.6	168.04	9,747.9	-42.3	3,184.3	3,007.6	176.70	18.021	
20,700.0	10,431.9	23,967.1	13,546.1	168.5	173.2	168.04	9,847.8	-43.3	3,183.4	3,005.1	178.33	17.851	
20,800.0	10,430.2	24,048.7	13,544.0	170.1	174.5	168.03	9,929.4	-44.1	3,182.6	3,002.9	179.74	17.707	
20,808.7	10,430.0	24,048.7	13,544.0	170.2	174.5	168.03	9,929.4	-44.1	3,182.6	3,002.8	179.77	17.704	
20,867.4	10,429.0	24,048.7	13,544.0	171.2	174.5	168.03	9,929.4	-44.1	3,183.2	3,003.2	179.95	17.689	

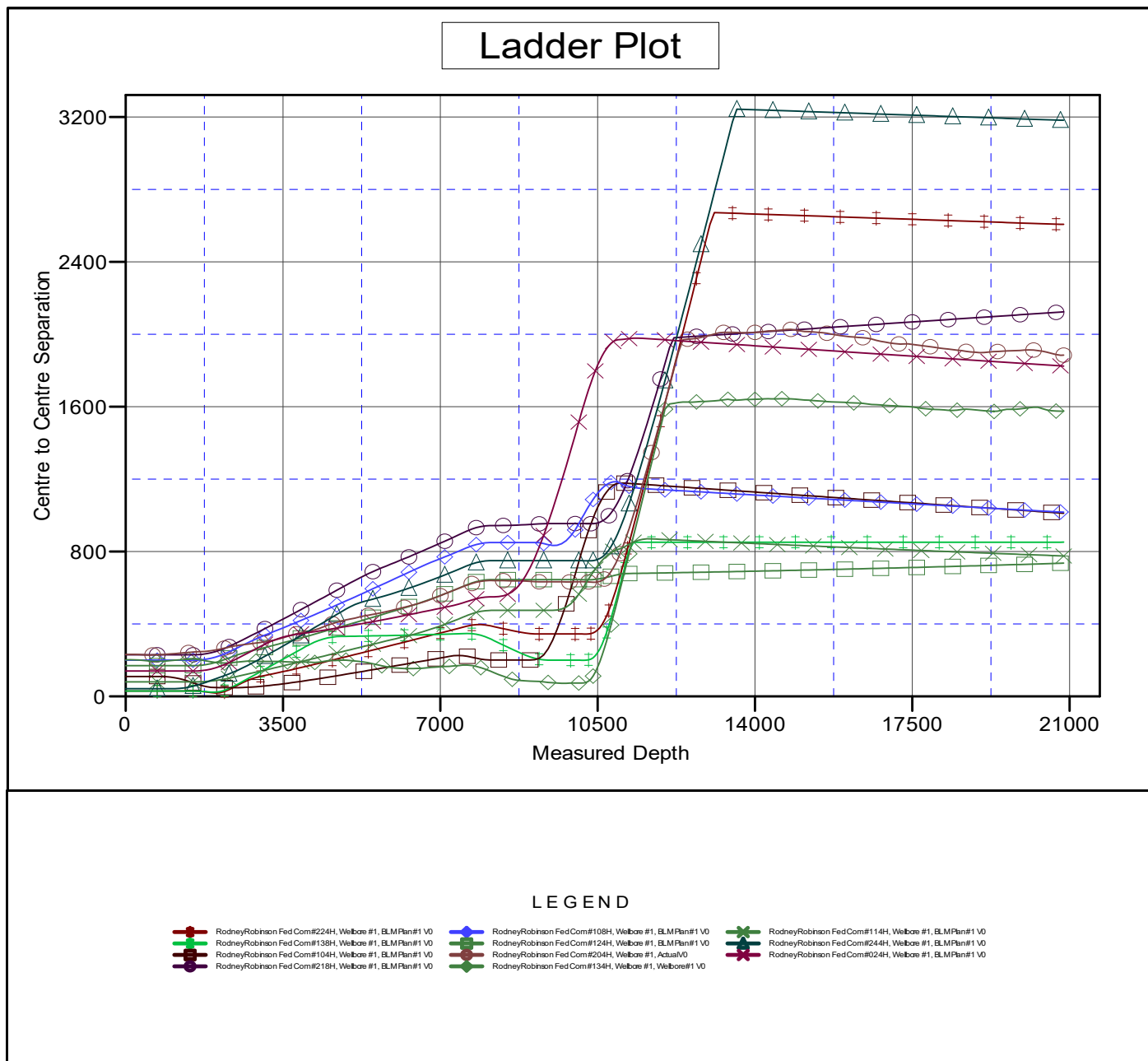
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Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Rodney Robinson Fed Com #128H
Project:	Antelope Ridge	TVD Reference:	KB @ 3747.5usft
Reference Site:	Rodney Robinson	MD Reference:	KB @ 3747.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Rodney Robinson Fed Com #128H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to KB @ 3747.5usft
 Offset Depths are relative to Offset Datum
 Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: Rodney Robinson Fed Com #128H
 Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
 Grid Convergence at Surface is: 0.39°



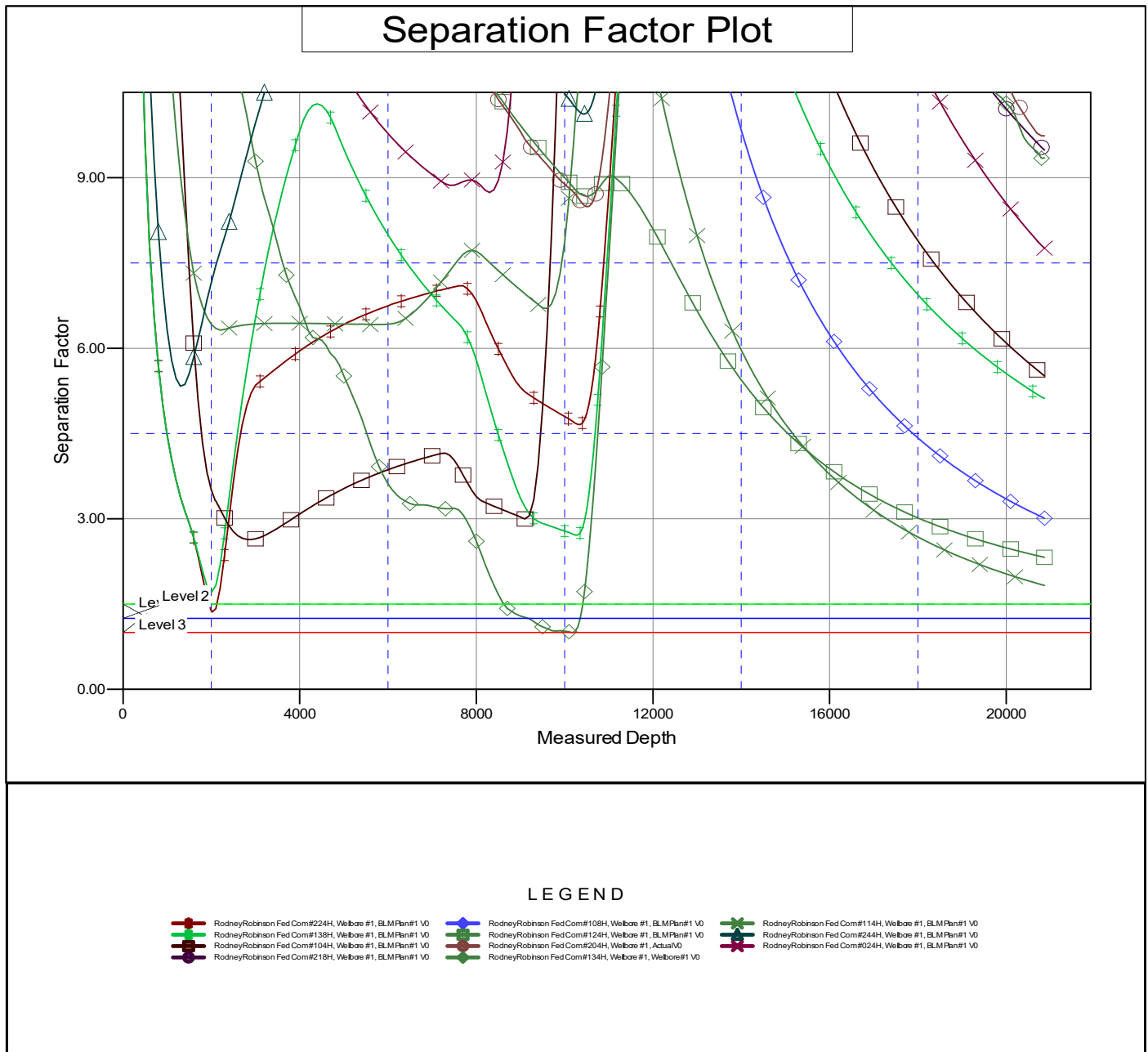
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Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Rodney Robinson Fed Com #128H
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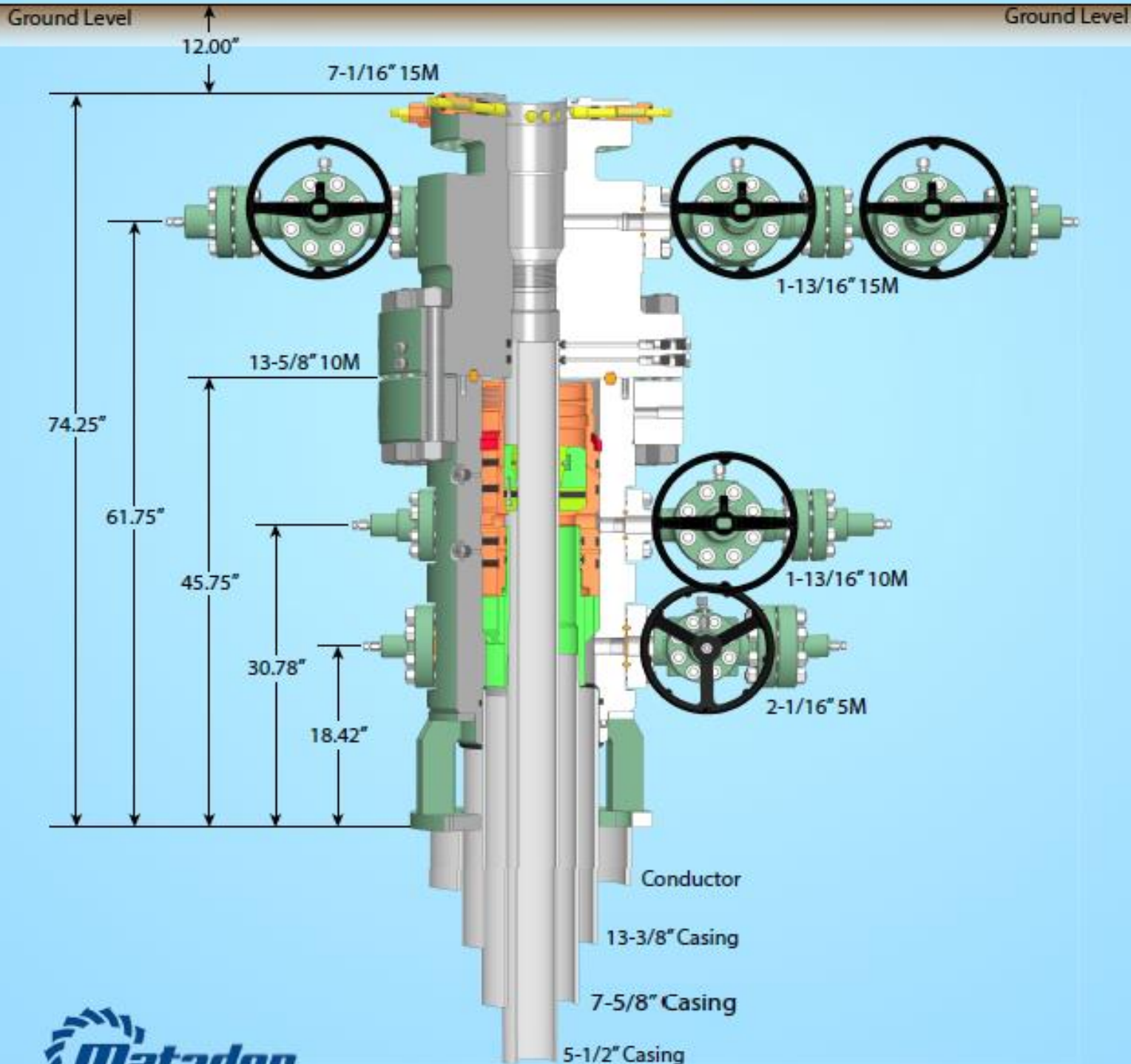
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CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



13-5/8" 10M MN-DS Wellhead



2018-083-01
Rev 01

Casing/Cementing Variance Request

Matador requests a variance to wave the centralizer requirement for the 7-5/8" casing and the 5-1/2" SF/Flush casing in the 6-3/4" hole.

If a DV tool is used, depth(s) will be adjusted based on hole conditions and cement volumes will be adjusted proportionally. DV tool will be set a minimum of 50 feet below previous casing and a minimum of 200 feet above the current shoe. Lab reports with the 500 psi compressive strength time for the cement will be onsite for review.

Matador requests option to perform a bradenhead cement squeeze on Intermediate 1 string.

Matador requests a variance to utilize a surface setting rig. If this is used, Matador request the option to drill either 17.5" or 20" surface hole.



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

SUPO Data Report

11/11/2024

APD ID: 10400081455

Submission Date: 11/08/2021

Highlighted data reflects the most recent changes

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: RODNEY ROBINSON FED COM

Well Number: 128H

[Show Final Text](#)

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

RR_Existing_Roads_map_20211104160151.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? NO

Section 3 - Location of Existing Wells

Existing Wells Map? YES

Attach Well map:

Operator Name: MATADOR PRODUCTION COMPANY	
Well Name: RODNEY ROBINSON FED COM	Well Number: 128H

RR_128H_1MileRadius_Map_20211104160209.pdf

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

Submit or defer a Proposed Production Facilities plan? SUBMIT

Production Facilities description: Production facilities are located on Matador's existing E2 CTB. This facility currently serves previously approved/drilled Rodney Robinson wells on Slot 3 & 4 pads. Matador will add an additional eight (one per additional well) 4 buried flowlines from Slots 3 & 4 to the E2 CTB within the previously approved 454.99' span. No other new additional facilities will be required.

Production Facilities map:

RR_Slot34_Production_Facilities_20211104160229.pdf

Section 5 - Location and Types of Water Supply

Water Source Table

Water source type: GW WELL

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

Source latitude: **Source longitude:**

Source datum:

Water source permit type: WATER WELL

Water source transport method: TRUCKING

Source land ownership: FEDERAL

Source transportation land ownership: FEDERAL

Water source volume (barrels): 21000

Source volume (acre-feet): 2.70675502

Source volume (gal): 882000

Water source and transportation

RR_H2O_Caliche_map_v2_102221_20211104160314.pdf

Water source comments: Water will be trucked via existing roads from the existing Solaris fresh water source on BLM land in Section 35 22S 32E.

New water well? N

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: RODNEY ROBINSON FED COM

Well Number: 128H

New Water Well Info

Well latitude:

Well Longitude:

Well datum:

Well target aquifer:

Est. depth to top of aquifer(ft):

Est thickness of aquifer:

Aquifer comments:

Aquifer documentation:

Well depth (ft):

Well casing type:

Well casing outside diameter (in.):

Well casing inside diameter (in.):

New water well casing?

Used casing source:

Drilling method:

Drill material:

Grout material:

Grout depth:

Casing length (ft.):

Casing top depth (ft.):

Well Production type:

Completion Method:

Water well additional information:

State appropriation permit:

Additional information attachment:

Section 6 - Construction Materials

Using any construction materials: YES

Construction Materials description: As this is an existing pad, no topsoil will be removed since it was previously removed and stockpiled to the side of the pads. Matador does not anticipate the use of more caliche, but if needed, caliche will be hauled from an existing caliche pit located on private land in Section 20 23E 33E. This site is operated by Basin. Pipe racks will face north.

Construction Materials source location

RR_H2O_Caliche_map_v2_102221_20211104160341.pdf

Section 7 - Methods for Handling

Waste type: DRILLING

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

Amount of waste: 550 barrels

Waste disposal frequency : Daily

Safe containment description: Steel mud tanks

Safe containmant attachment:

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

Disposal type description:

Disposal location description: Mud tanks will be hauled to R360s state approved (NM-01-0006) disposal

Operator Name: MATADOR PRODUCTION COMPANY	
Well Name: RODNEY ROBINSON FED COM	Well Number: 128H

site at Halfway, NM.

Waste type: SEWAGE

Waste content description: Black and grey water

Amount of waste: 5 barrels

Waste disposal frequency : Daily

Safe containment description: Plastic holding tanks and chemical toilets

Safe containmant attachment:

Waste disposal type: OTHER **Disposal location ownership:** OTHER

Disposal type description: Pubic

Disposal location description: Jal wastewater treatment plant

Waste type: GARBAGE

Waste content description: Trash

Amount of waste: 10 barrels

Waste disposal frequency : Daily

Safe containment description: Portable trash cage

Safe containmant attachment:

Waste disposal type: OTHER **Disposal location ownership:** OTHER

Disposal type description: Public

Disposal location description: Lea County landfill

Reserve Pit

Reserve Pit being used? NO

Temporary disposal of produced water into reserve pit? NO

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

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

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

Reserve pit liner

Reserve pit liner specifications and installation description

Cuttings Area

Cuttings Area being used? NO

Operator Name: MATADOR PRODUCTION COMPANY	
Well Name: RODNEY ROBINSON FED COM	Well Number: 128H

Are you storing cuttings on location? Y

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

Are you requesting any Ancillary Facilities?: N

Ancillary Facilities

Comments:

Section 9 - Well Site

Well Site Layout Diagram:

RR_Slot4_Well_Site_Layout_20211104160401.pdf

Comments:

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance

Multiple Well Pad Name: Rodney Robinson Fed Com

Multiple Well Pad Number: Slot 4

Recontouring

RR_Slot34_Interim_Rec_102721_20211104160421.pdf

RR_Slot34_Recontour_20211104160441.pdf

Drainage/Erosion control construction: Crowned and ditched

Drainage/Erosion control reclamation: Harrowed on the contour

Operator Name: MATADOR PRODUCTION COMPANY
Well Name: RODNEY ROBINSON FED COM **Well Number:** 128H

Well pad proposed disturbance (acres): 0	Well pad interim reclamation (acres): 0	Well pad long term disturbance (acres): 0
Road proposed disturbance (acres):	Road interim reclamation (acres): 0	Road long term disturbance (acres): 0
Powerline proposed disturbance (acres): 0	Powerline interim reclamation (acres): 0	Powerline long term disturbance (acres): 0
Pipeline proposed disturbance (acres): 0.52	Pipeline interim reclamation (acres): 0.52	Pipeline long term disturbance (acres): 0
Other proposed disturbance (acres): 0	Other interim reclamation (acres): 0	Other long term disturbance (acres): 0
Total proposed disturbance: 0.52	Total interim reclamation: 0.52	Total long term disturbance: 0

Disturbance Comments:

Reconstruction method: As was previously approved, interim reclamation will be completed within 6 months of completing the last well on the pad. Interim reclamation will consist of shrinking the Slot 3 pad by 0.63 acres and the Slot 4 pad by 0.67 acres by removing caliche and reclaiming portions of each pad. Disturbed areas will be contoured to match pre-construction grades.

Topsoil redistribution: Soil and brush will be evenly spread over disturbed areas and harrowed on the contour. Disturbed areas will be seeded in accordance with the landowners requirements. The existing stockpiled topsoil will be used to cover the remainder of the pads and tank battery when the wells are plugged and the pads reclaimed. Once the last well is plugged, the rest of the pad and associated roads will be similarly reclaimed within 6 months of plugging. Noxious weeds will be controlled.

Soil treatment: None

Existing Vegetation at the well pad: Mesquite and/or Creosote bush

Existing Vegetation at the well pad

Existing Vegetation Community at the road: Mesquite and/or Creosote bush

Existing Vegetation Community at the road

Existing Vegetation Community at the pipeline: Mesquite and/or Creosote bush

Existing Vegetation Community at the pipeline

Existing Vegetation Community at other disturbances: Mesquite and/or Creosote bush

Existing Vegetation Community at other disturbances

Non native seed used? N

Non native seed description:

Seedling transplant description:

Will seedlings be transplanted for this project? N

Seedling transplant description

Will seed be harvested for use in site reclamation? N

Seed harvest description:

Seed harvest description attachment:

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: RODNEY ROBINSON FED COM

Well Number: 128H

Seed

Seed Table

Seed Summary

Total pounds/Acre:

Seed Type

Pounds/Acre

Seed reclamation

Operator Contact/Responsible Official

First Name:

Last Name:

Phone:

Email:

Seedbed prep:

Seed BMP:

Seed method:

Existing invasive species? N

Existing invasive species treatment description:

Existing invasive species treatment

Weed treatment plan description: To BLM standards

Weed treatment plan

Monitoring plan description: To BLM standards

Monitoring plan

Success standards: To BLM satisfaction

Pit closure description: No pit

Pit closure attachment:

Section 11 - Surface Ownership

Disturbance type: WELL PAD

Describe:

Surface Owner: STATE GOVERNMENT

Other surface owner description:

BIA Local Office:

Operator Name: MATADOR PRODUCTION COMPANY	
Well Name: RODNEY ROBINSON FED COM	Well Number: 128H

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office: SANTA FE

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Disturbance type: EXISTING ACCESS ROAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Operator Name: MATADOR PRODUCTION COMPANY		
Well Name: RODNEY ROBINSON FED COM	Well Number: 128H	

Disturbance type: PIPELINE

Describe:

Surface Owner: STATE GOVERNMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office: SANTA FE

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Disturbance type: OTHER

Describe: Central Tank Battery

Surface Owner: STATE GOVERNMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office: SANTA FE

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: RODNEY ROBINSON FED COM

Well Number: 128H

Section 12 - Other

Right of Way needed? N

Use APD as ROW?

ROW Type(s):

ROW

SUPO Additional Information:

Use a previously conducted onsite? Y

Previous Onsite information: Original on-site inspection for the pads was held on April 23, 2019 with Jesse Bassett (BLM).





Other SUPO

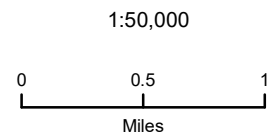
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Matador Resources Company, LLC

Rodney Robinson Federal Existing Access Roads Map

Lea County, New Mexico

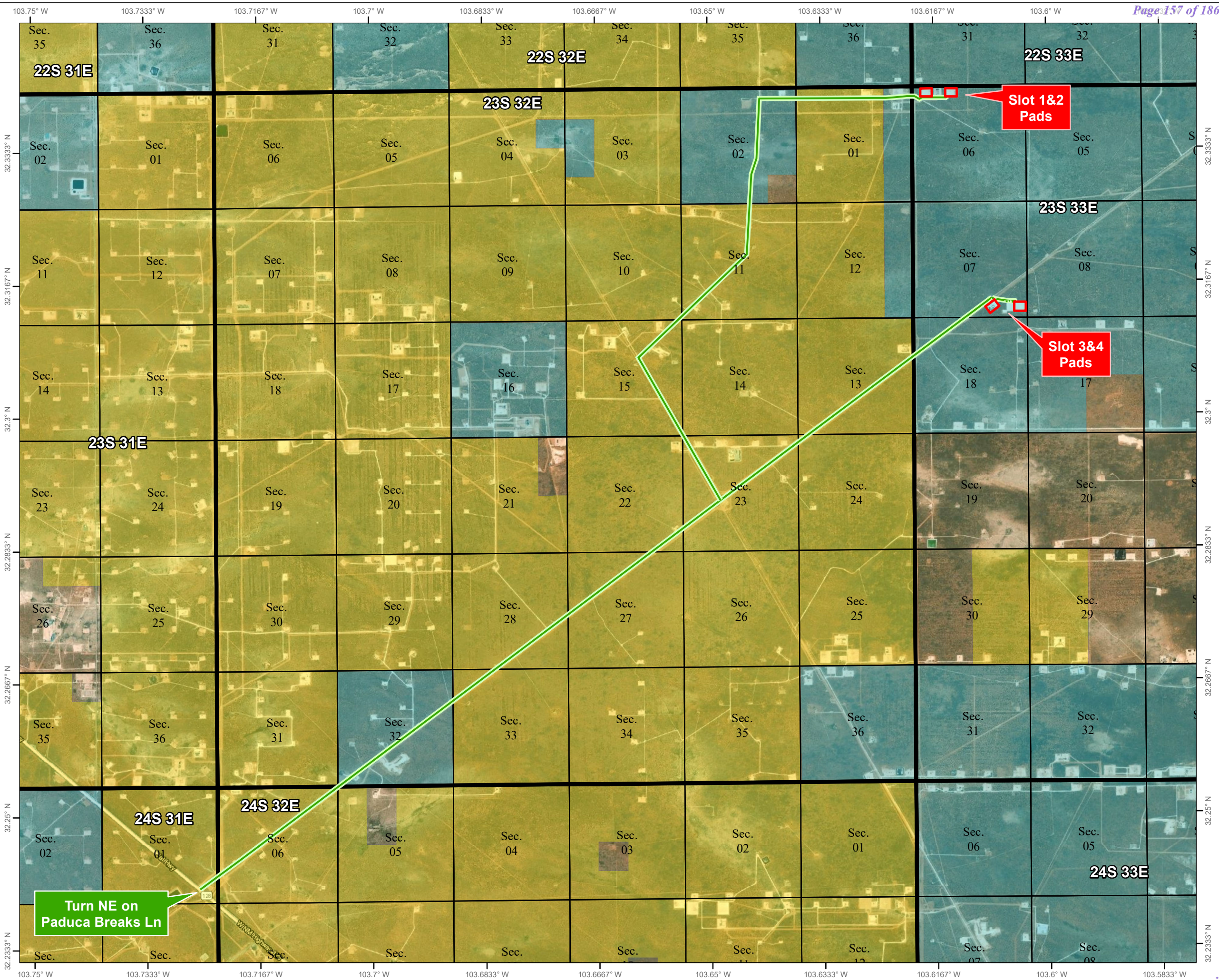
-  Existing access road
-  State Trust Lands
-  BLM Lands
-  Private Lands



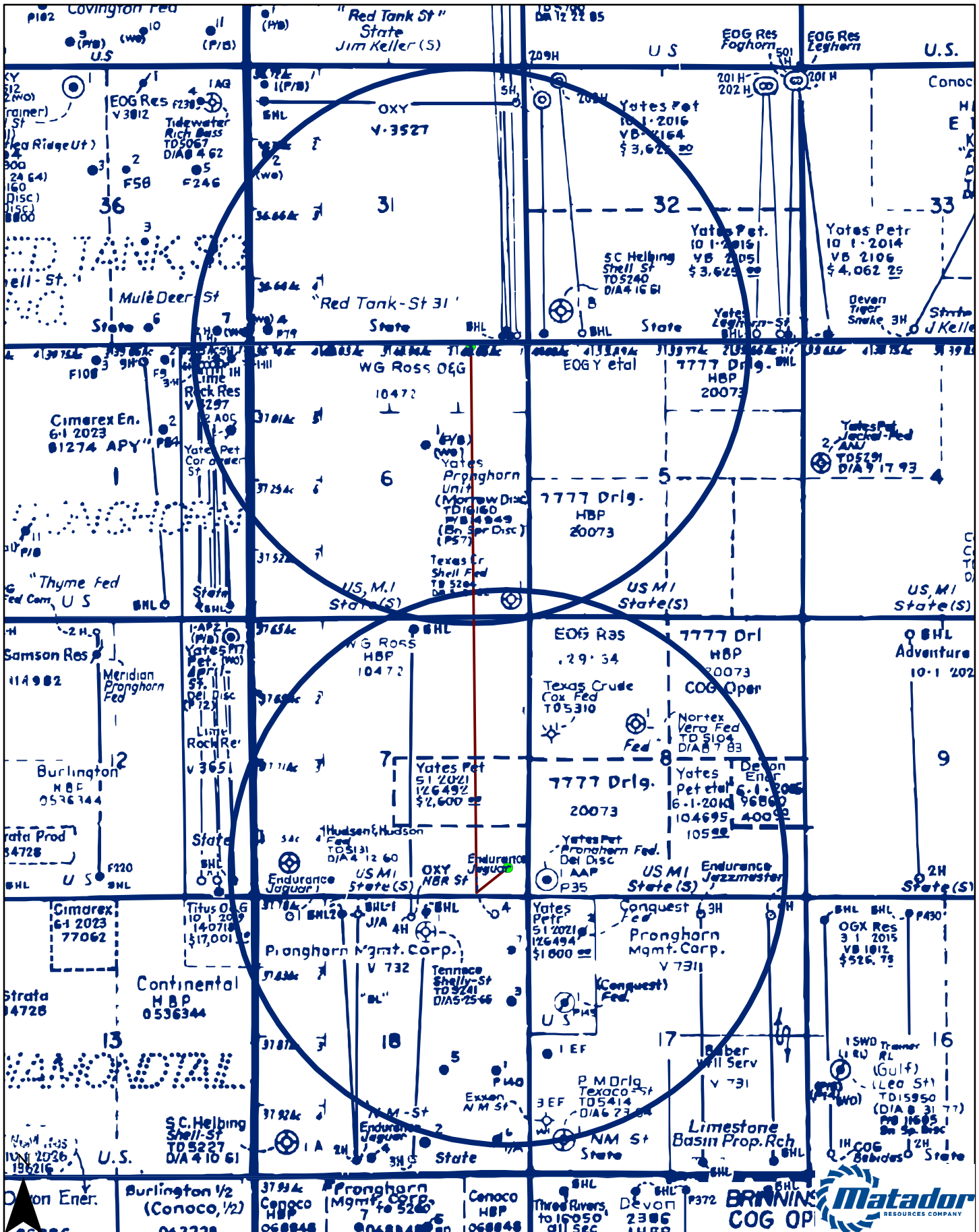
NAD 1983 New Mexico State Plane East
FIPS 3001 Feet



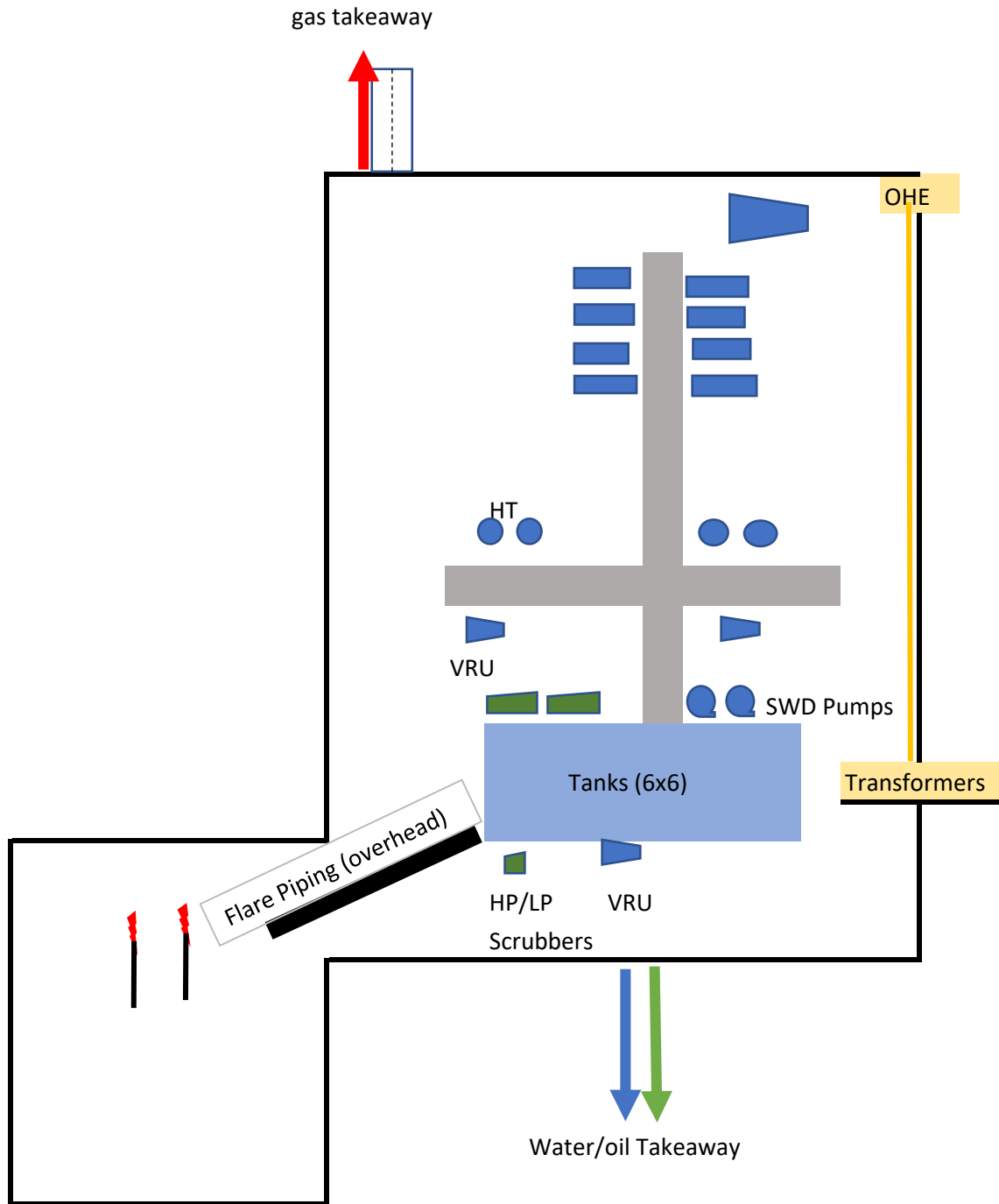
Prepared by Permits West, Inc., October 22, 2021
for Matador Resources Company, LLC

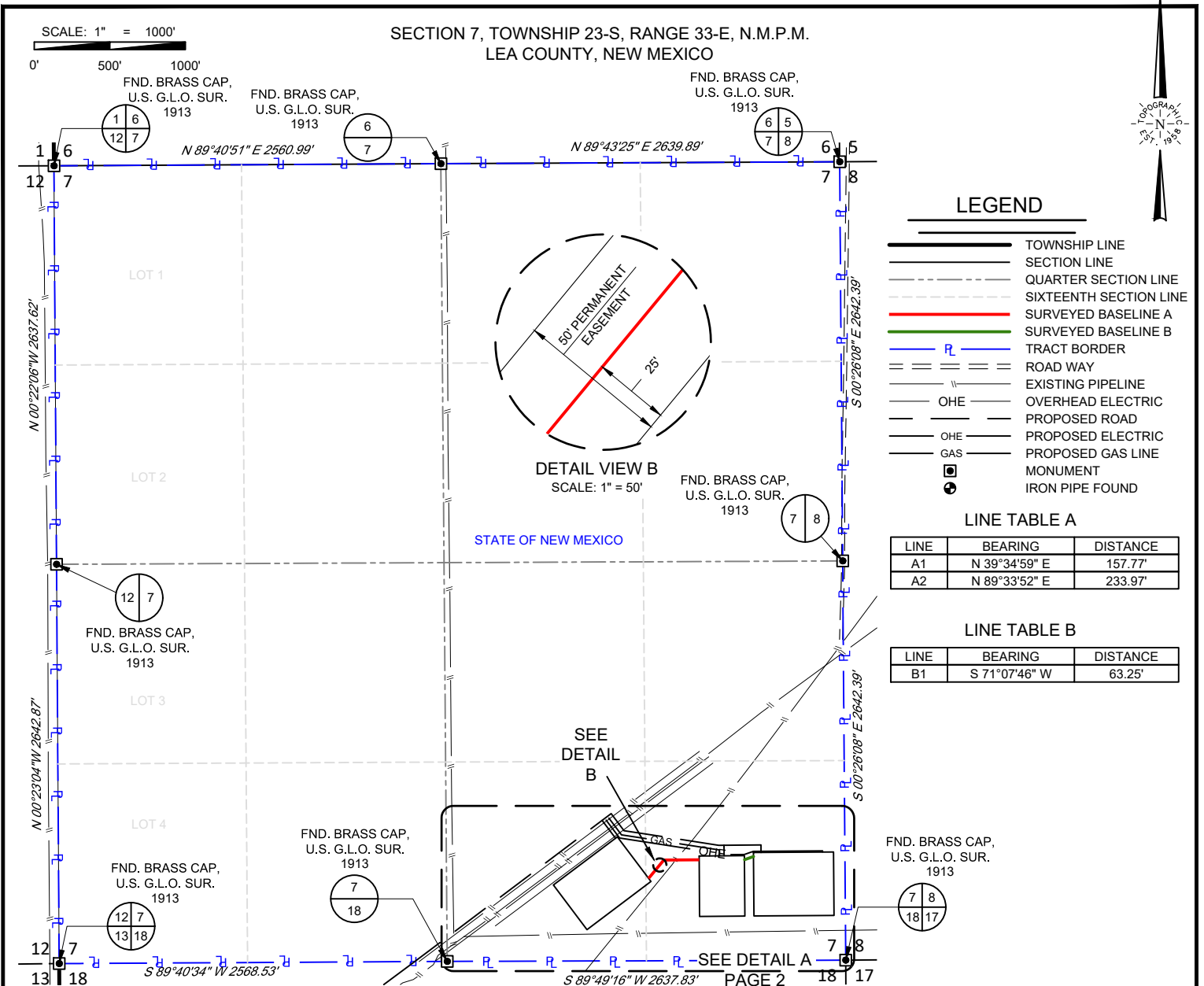


Rodney Robinson Fed Com #128H



Rodney Robinson Federal E2 Facility Diagram





**RODNEY ROBINSON
SLOT 3 & 4 FLOWLINE EASEMENT**

Being a proposed flowline easement being 50 feet in width, 25 feet left, and 25 feet right of the above platted centerline total line footage containing 454.99 feet or 27.58 rods, containing 0.52 acres more or less.

SE/4 SE/4 - 454.99 feet or 27.58 rods, containing 0.52 acres



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LOYALTY INNOVATION LEGACY

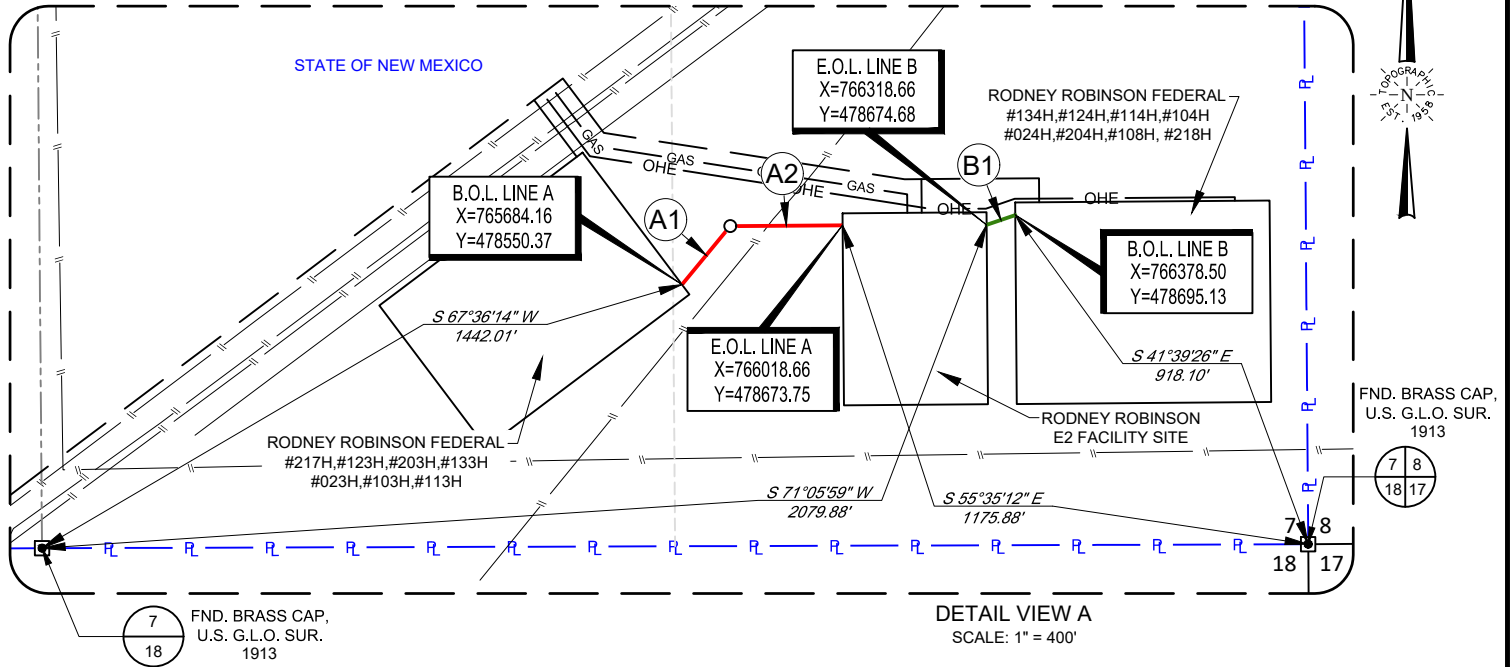
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Angel M. Baeza, P.S. No. 25116
MAY 24, 2019

RODNEY ROBINSON SLOT 3 & 4 FLOWLINE EASEMENT	REVISION:		NOTES:
	INT	DATE	
DATE: 05/21/2019			1. ORIGINAL DOCUMENT SIZE: 8.5" X 11" 2. ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREIN ARE GRID BASED UPON THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, U.S. SURVEY FEET. 3. CERTIFICATION IS MADE ONLY TO THE LOCATION OF THIS EASEMENT, IN RELATION TO THE EVIDENCE FOUND DURING A FIELD SURVEY, MADE ON THE GROUND, UNDER MY SUPERVISION, AND USING DOCUMENTATION PROVIDED BY MATADOR PRODUCTION COMPANY. ONLY UTILITIES/EASEMENTS THAT WERE VISIBLE ON THE DATE OF THIS SURVEY, WITHIN/ADJOINING THIS EASEMENT, HAVE BEEN LOCATED AS SHOWN HEREON OF WHICH I HAVE KNOWLEDGE. THIS CERTIFICATION IS LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE, AND MADE FOR THIS TRANSACTION ONLY. 4. B.O.L./P.O.B. = BEGINNING OF LINE/POINT OF BEGINNING 5. E.O.L./P.O.E. = END OF LINE/POINT OF EXIT 6. ADJOINER INFORMATION SHOWN FOR INFORMATIONAL PURPOSES ONLY.
FILE: EP_RODNEY_ROBINSON_FLOWLINE_SLOT_3&4			
DRAWN BY: CSG			
SHEET: 1 OF 2			

SECTION 7, TOWNSHIP 23-S, RANGE 33-E, N.M.P.M.
LEA COUNTY, NEW MEXICO



DETAIL VIEW A
SCALE: 1" = 400'

LEGEND

- | | | | |
|--|------------------------|--|-----------------------|
| | TOWNSHIP LINE | | ROAD WAY |
| | SECTION LINE | | EXISTING PIPELINE |
| | QUARTER SECTION LINE | | OHE |
| | SIXTEENTH SECTION LINE | | PROPOSED ROAD |
| | SURVEYED BASELINE A | | PROPOSED ELECTRIC |
| | SURVEYED BASELINE B | | PROPOSED GAS LINE |
| | TRACT BORDER | | MONUMENT |
| | | | IRON PIPE FOUND |
| | | | POINT OF INTERSECTION |



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RODNEY ROBINSON SLOT 3 & 4 FLOWLINE EASEMENT DATE: 05/21/2019 FILE: EP_RODNEY_ROBINSON_FLOWLINE_SLOT_3&4 DRAWN BY: CSG SHEET: 2 OF 2	REVISION:		NOTES: 1. ORIGINAL DOCUMENT SIZE: 8.5" X 11" 2. ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREIN ARE GRID BASED UPON THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, U.S. SURVEY FEET. 3. CERTIFICATION IS MADE ONLY TO THE LOCATION OF THIS EASEMENT, IN RELATION TO THE EVIDENCE FOUND DURING A FIELD SURVEY, MADE ON THE GROUND, UNDER MY SUPERVISION, AND USING DOCUMENTATION PROVIDED BY MATADOR PRODUCTION COMPANY. ONLY UTILITIES/EASEMENTS THAT WERE VISIBLE ON THE DATE OF THIS SURVEY, WITHIN/ADJOINING THIS EASEMENT, HAVE BEEN LOCATED AS SHOWN HEREON OF WHICH I HAVE KNOWLEDGE. THIS CERTIFICATION IS LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE, AND MADE FOR THIS TRANSACTION ONLY. 4. B.O.L./P.O.B. = BEGINNING OF LINE/POINT OF BEGINNING 5. E.O.L./P.O.E. = END OF LINE/POINT OF EXIT 6. ADJOINER INFORMATION SHOWN FOR INFORMATIONAL PURPOSES ONLY.
	INT	DATE	

Matador Production Company

Rodney Robinson Federal Water & Caliche Source Map

Township 23S, Range 33E
Lea County, New Mexico

● Caliche Source
● Water Source

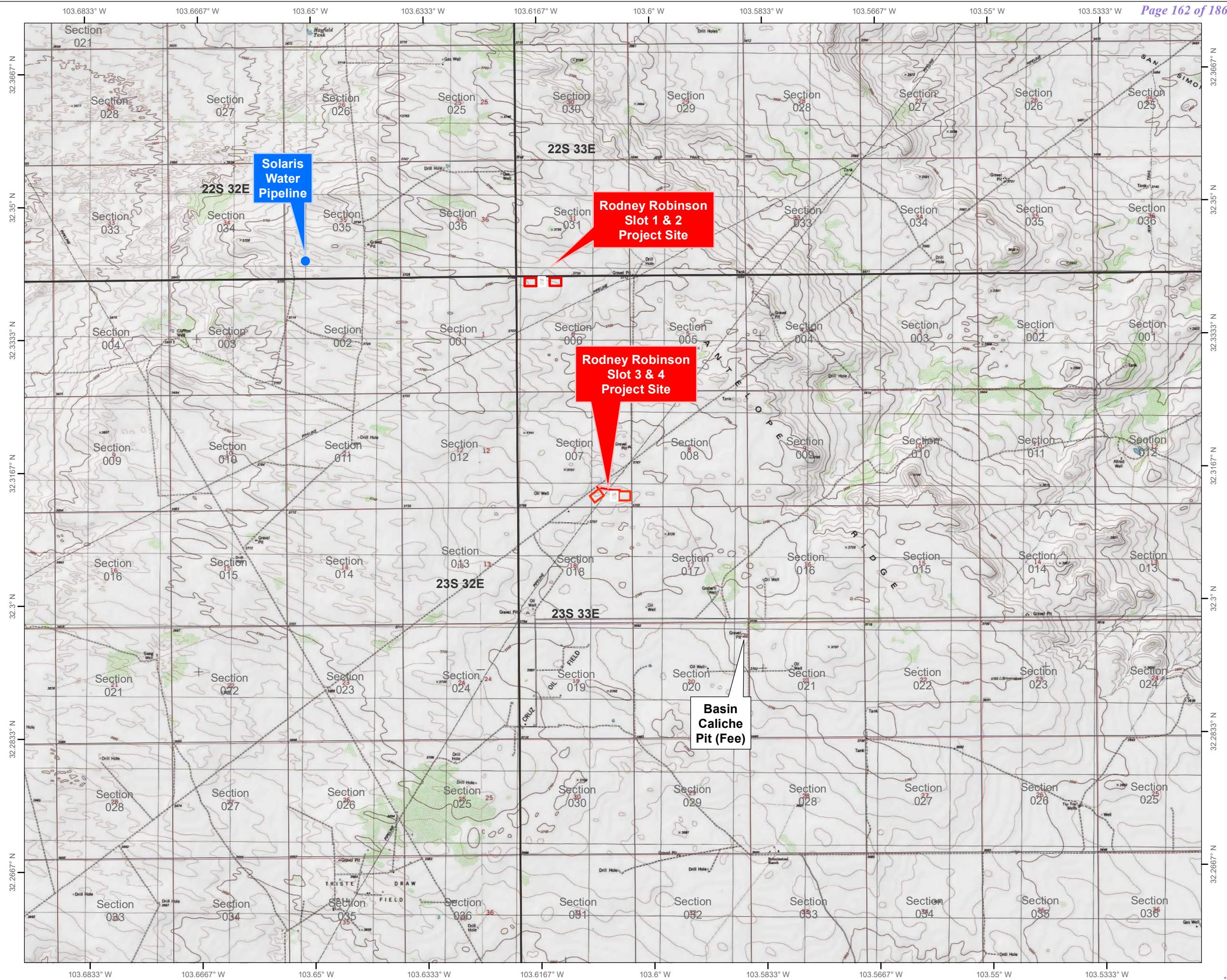
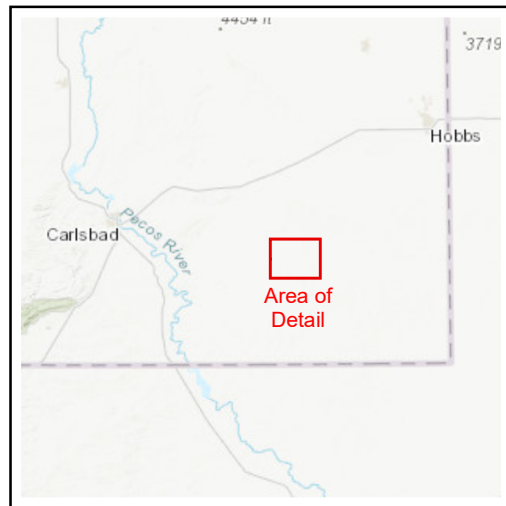
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NAD 1983 New Mexico State Plane East
FIPS 3001 Feet



Prepared by Permits West, Inc., October 22, 2021
for Matador Production Company



Matador Production Company

Rodney Robinson Federal Water & Caliche Source Map

Township 23S, Range 33E
Lea County, New Mexico

● Caliche Source
● Water Source

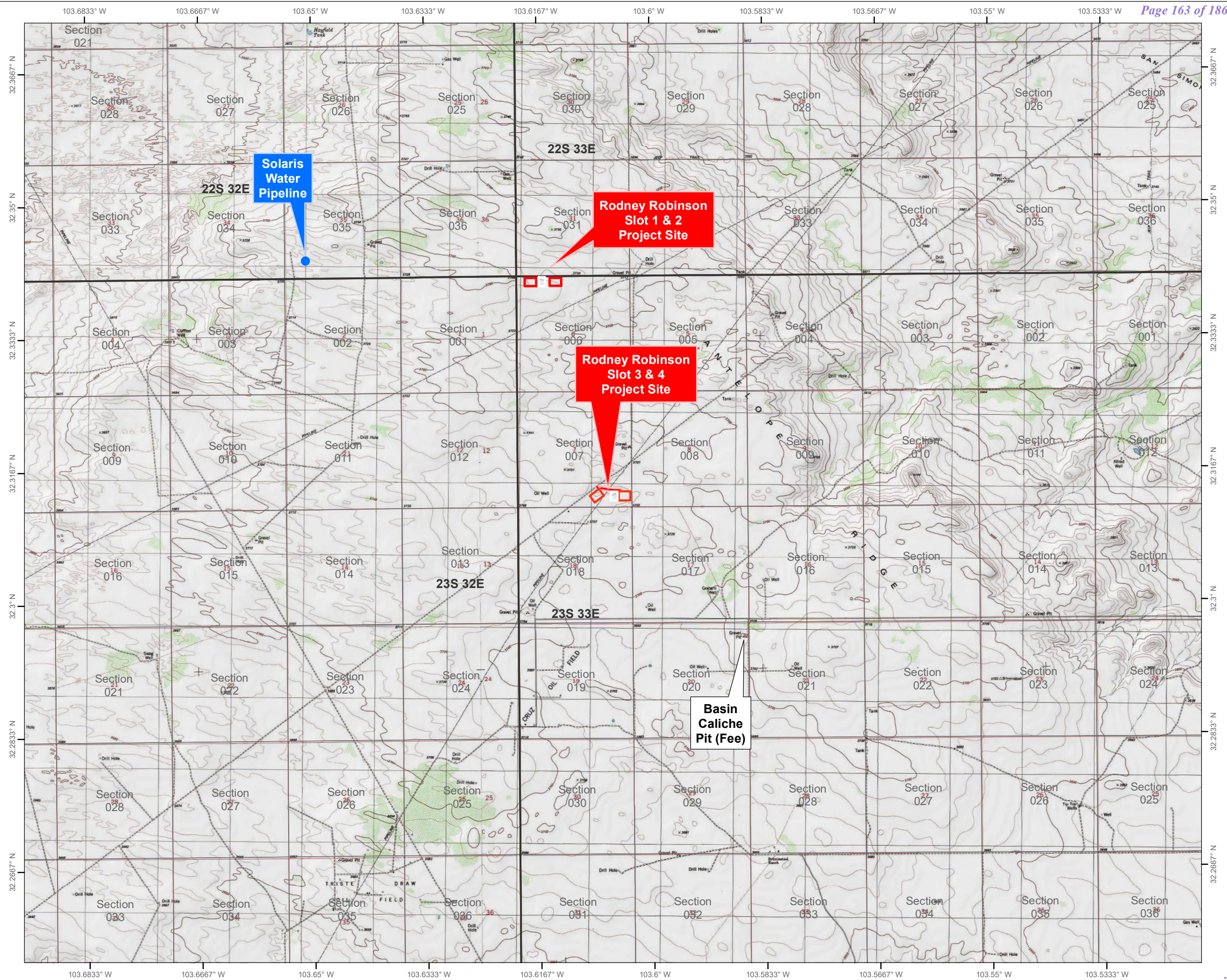
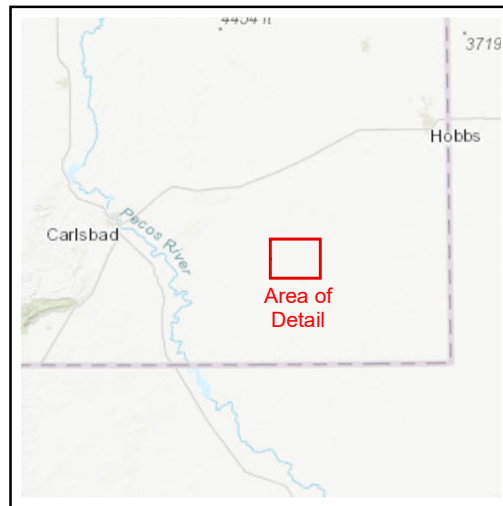
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NAD 1983 New Mexico State Plane East
FIPS 3001 Feet



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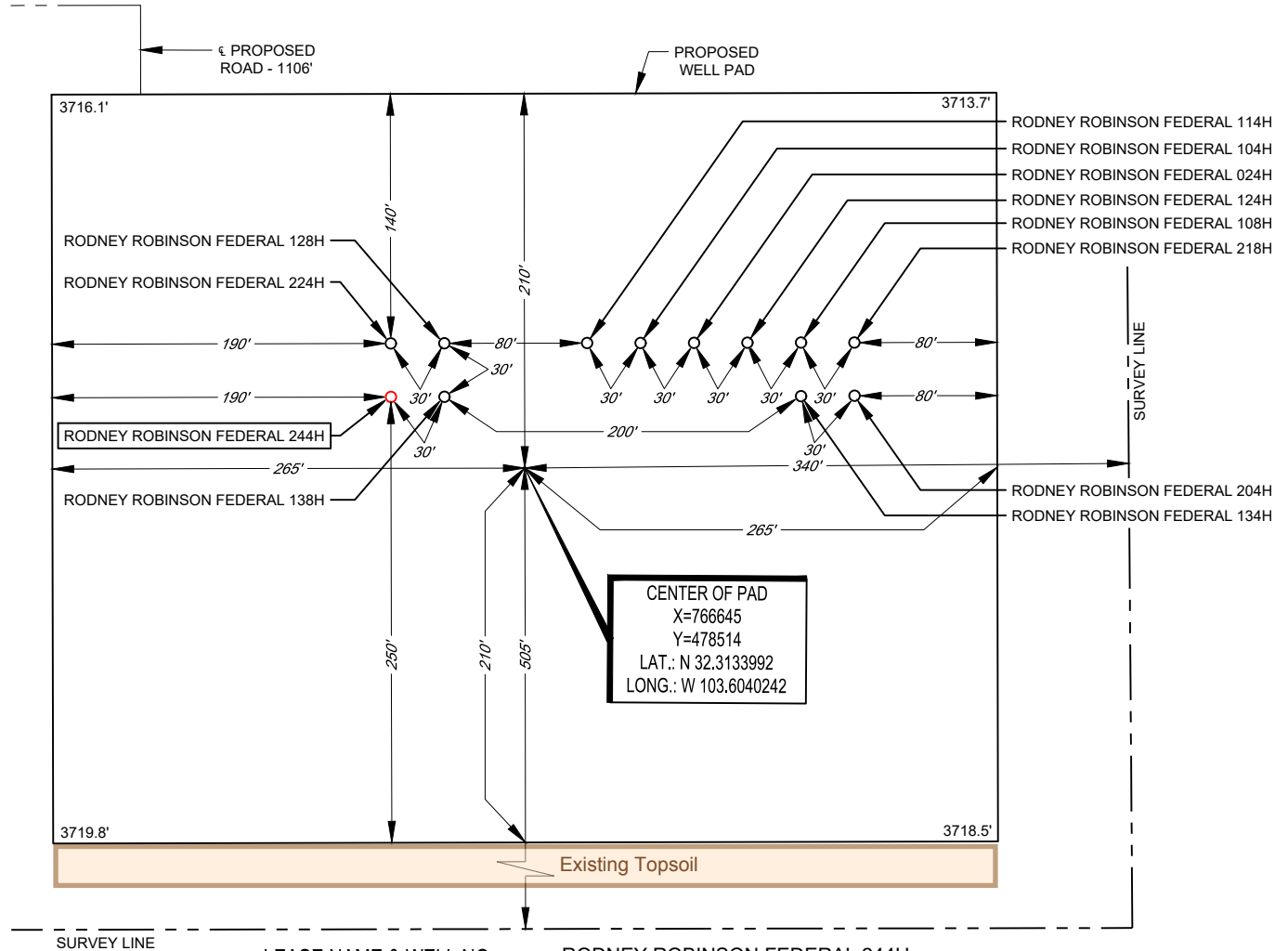


LEGEND

- TOWNSHIP/RANGE LINE
- PROPOSED ROAD

SECTION 7, TOWNSHIP 23-S, RANGE 33-E, N.M.P.M.
LEA COUNTY, NEW MEXICO

DETAIL VIEW
SCALE: 1" = 100'



LEASE NAME & WELL NO.: RODNEY ROBINSON FEDERAL 244H
 244H LATITUDE N 32.3135089 244H LONGITUDE W 103.6042671

CENTER OF PAD IS 505' FSL & 340' FEL



Angel M. Baeza, P.S. No. 25116

August 21, 2020

ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID BASED UPON THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, U.S. SURVEY FEET. ELEVATIONS USED ARE NAVD88, OBTAINED THROUGH AN OPUS SOLUTION.

THIS PROPOSED PAD SITE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY MATADOR PRODUCTION COMPANY. ONLY THE DATA SHOWN ABOVE IS BEING CERTIFIED TO, ALL OTHER INFORMATION WAS INTENTIONALLY OMITTED. THIS PLAT IS ONLY INTENDED TO BE USED FOR A PERMIT AND IS NOT A BOUNDARY SURVEY. 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.

ORIGINAL DOCUMENT SIZE: 8.5" X 11"





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

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Rig Diagram

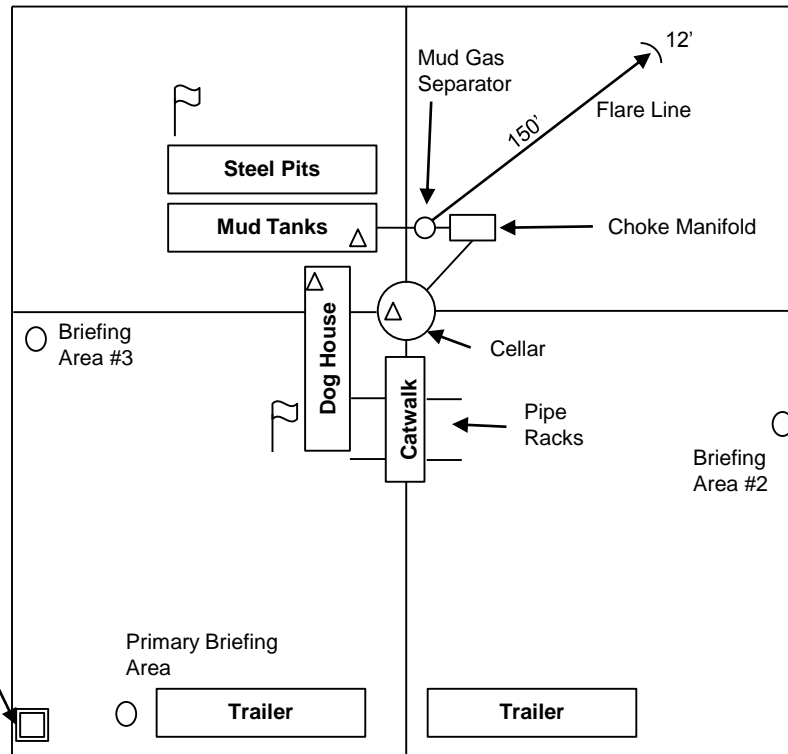
Exhibit E-3: Rig Diagram
Rodney Robinson Slot 4 Wells
Matador Resources Company
6-23S-33E
Lea County, NM

 Wind Direction Indicator

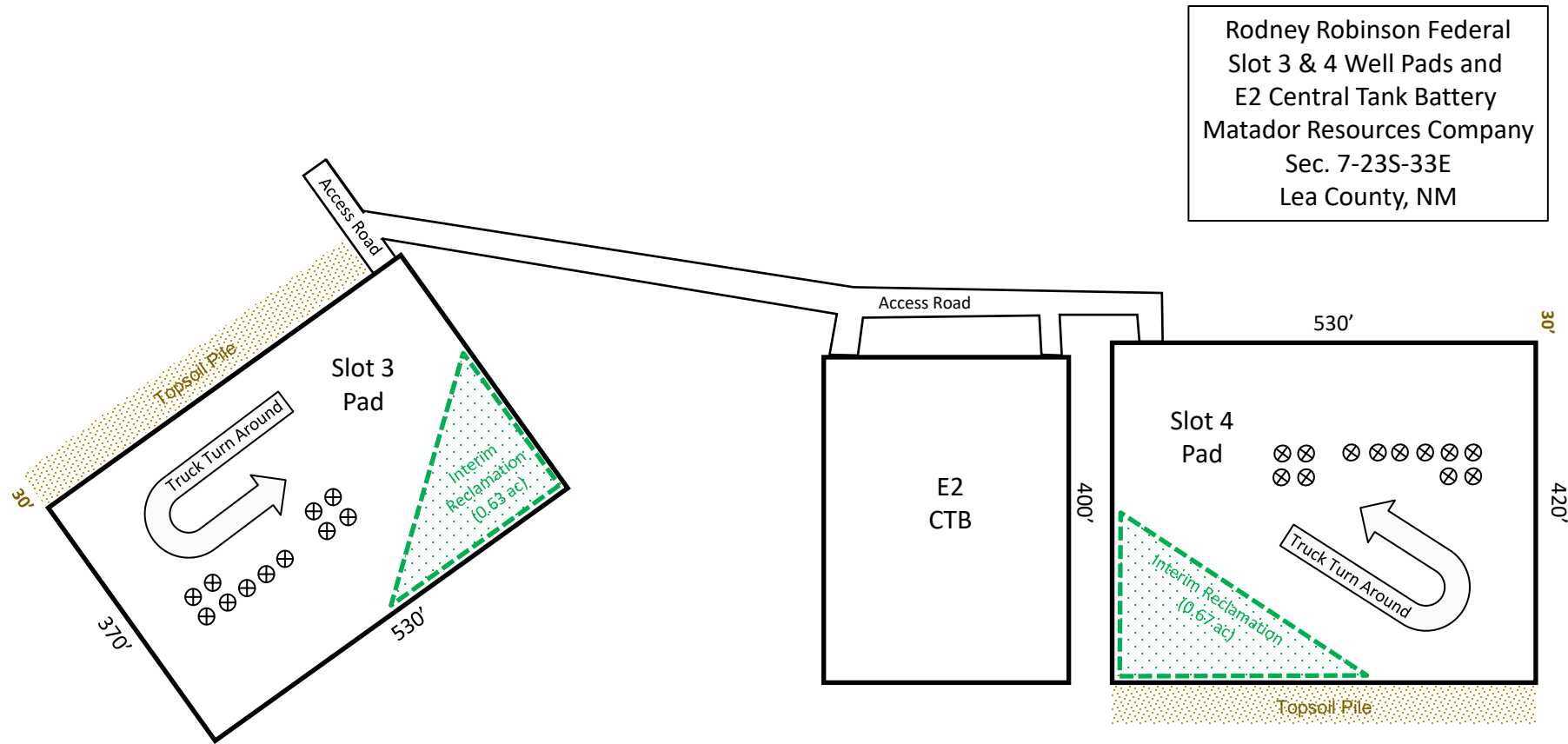
 H2S Monitors

 Briefing Areas

Condition Warning Sign



Interim Reclamation Diagram

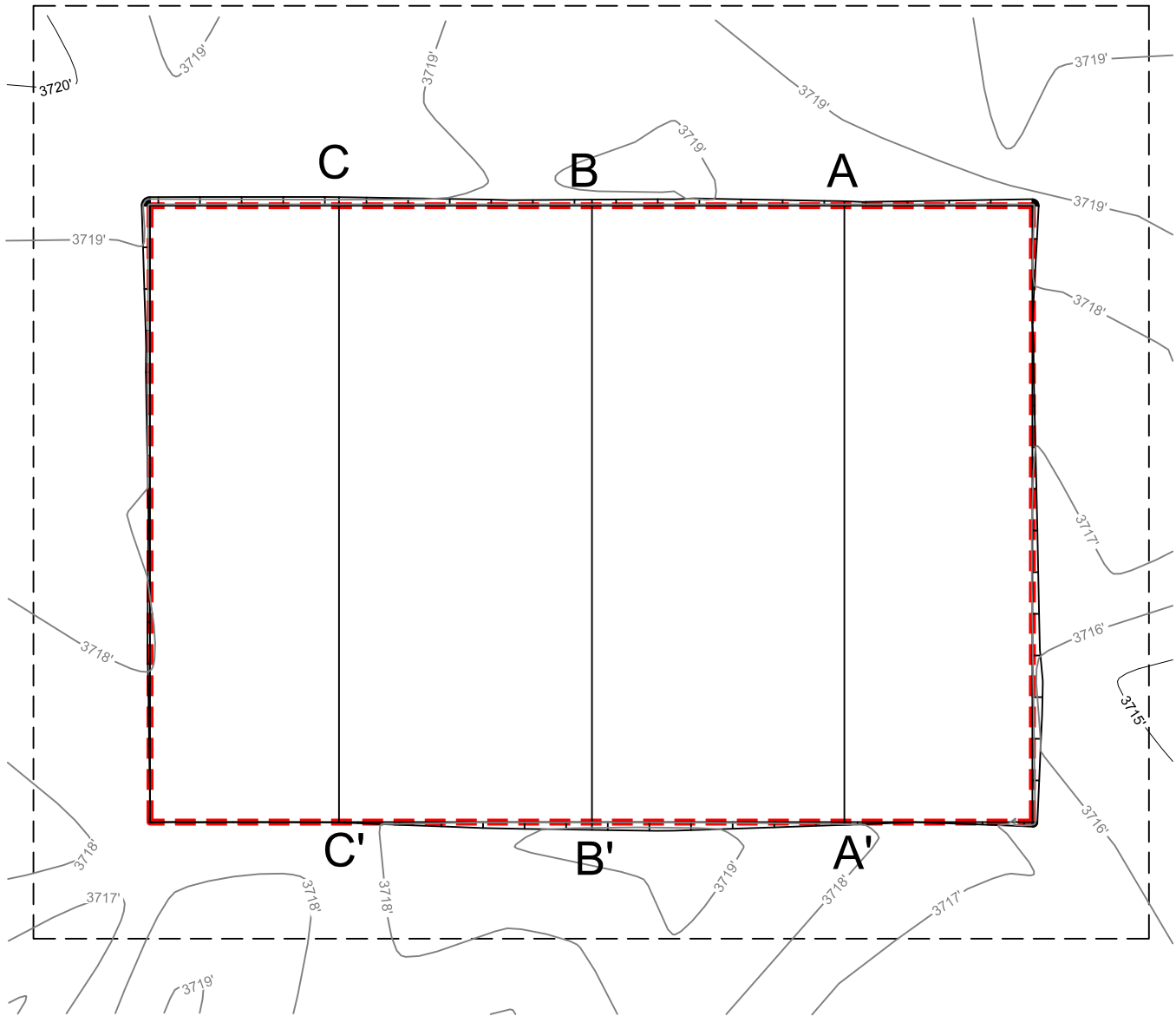
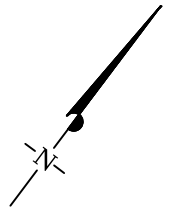


Interim Reclamation

PRELIMINARY

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Angel M. Baeza, P.S. No. 25116

MARCH 26, 2019

Field note description of even date accompanies this plat.

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	EAH	03/26/19
DATE:	12/04/18	
FILE:	CD_RODNEY_ROBINSON_SLOT_3	
DRAWN BY:	EAH	
SHEET :	1 OF 3	

NOTES:

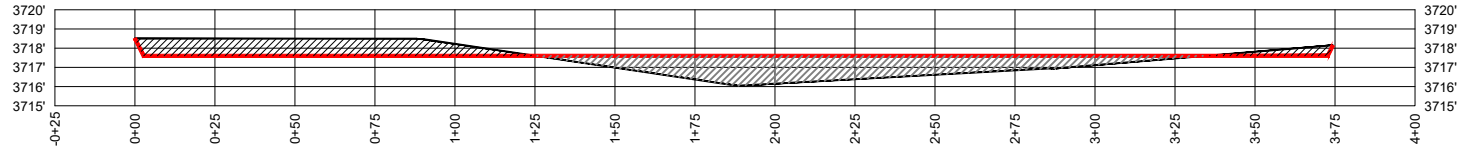
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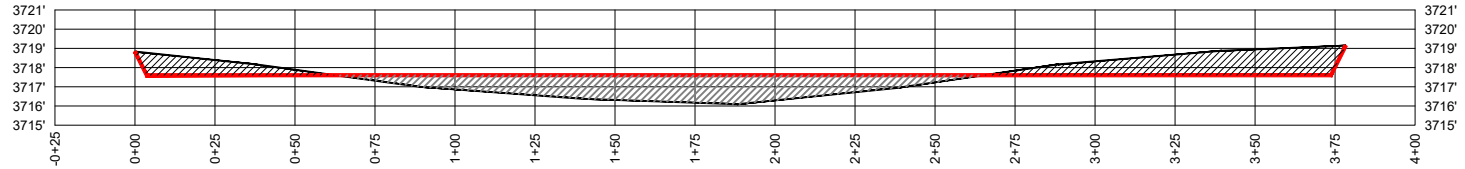
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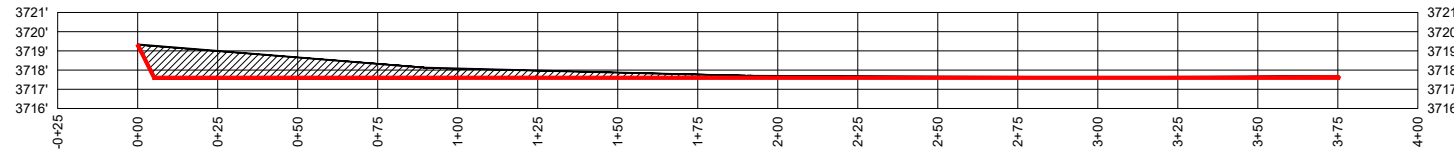
A-A'



B-B'



C-C'



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Vertical Scale = 1:10

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SHEET :	2 OF 3	

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TOP OF PAD ELEVATION: 3717.6
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 : 67,459.5 C.F., 2,498.50 C.Y.
FILL: 67,459.5 C.F., 2,498.50 C.Y.
AREA: 201172.7 SQ.FT., 4.618 ACRES

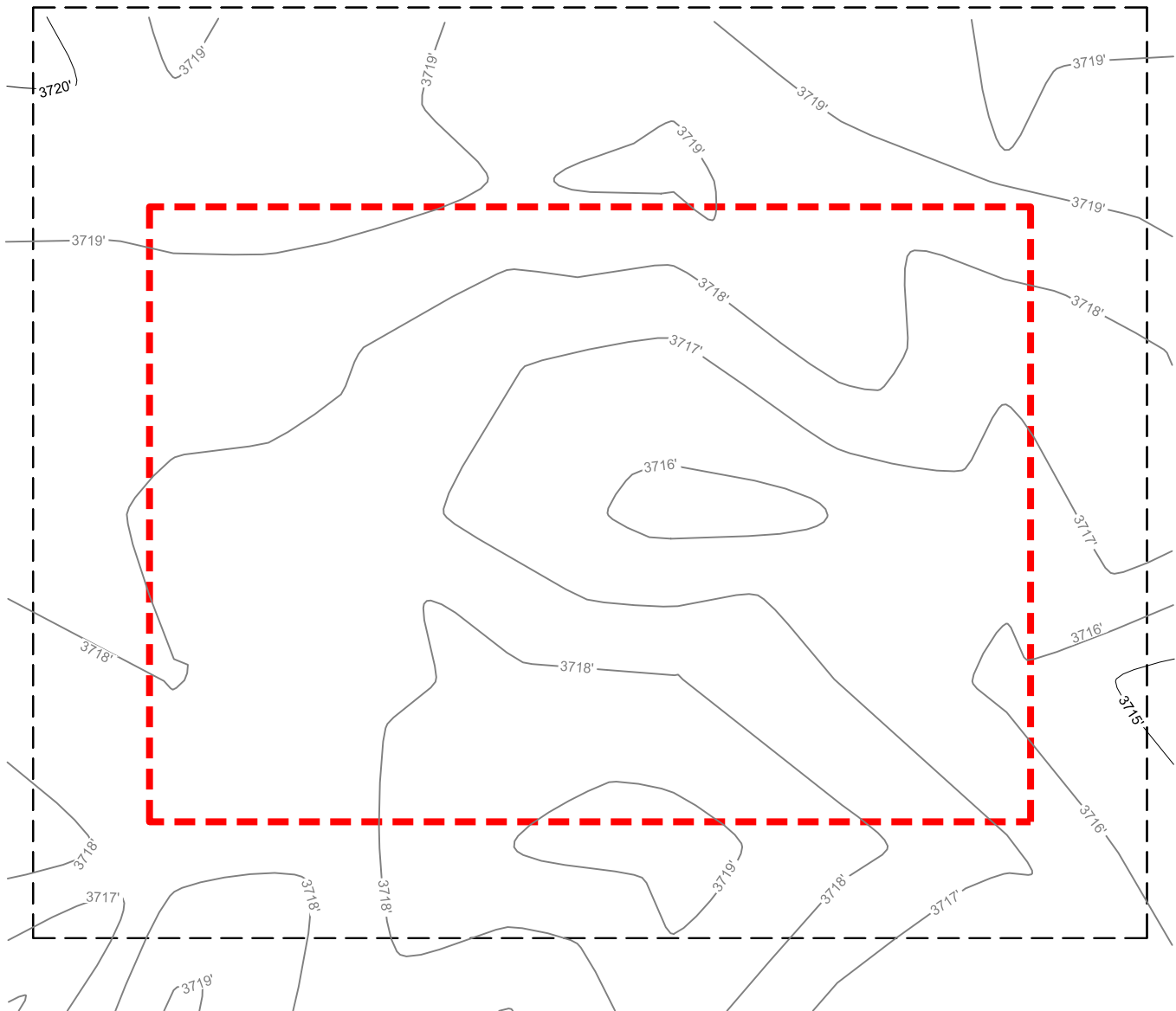
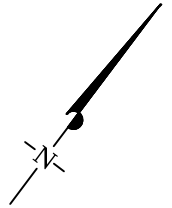
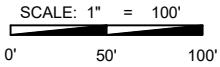
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Angel M. Baeza, P.S. No. 25116
MARCH 26, 2019

Field note description of even date accompanies this plat.

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SECTION 7, TOWNSHIP 23-S, RANGE 33-E, N.M.P.M.
LEA COUNTY, NEW MEXICO



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SHEET :	3 OF 3	

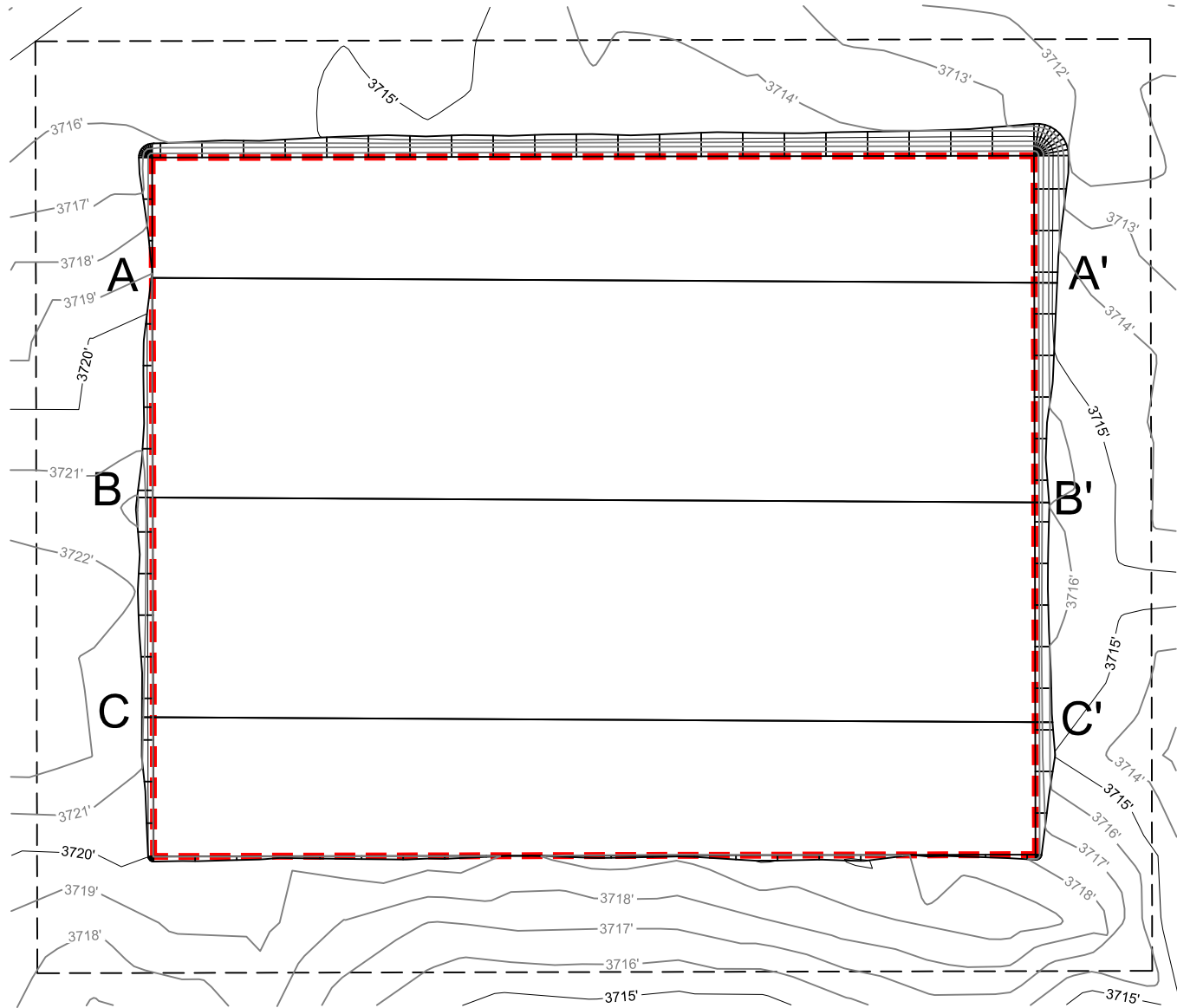
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SHEET :	1 OF 3	

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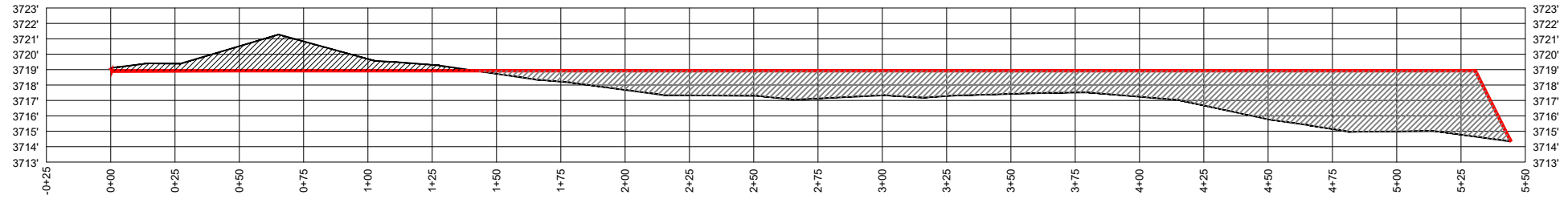
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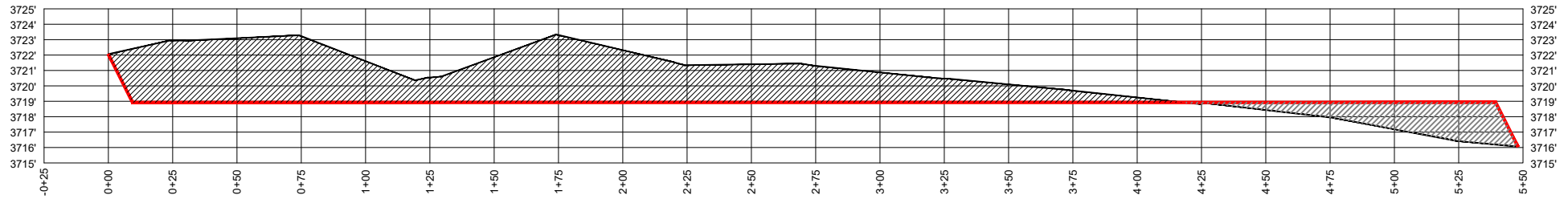
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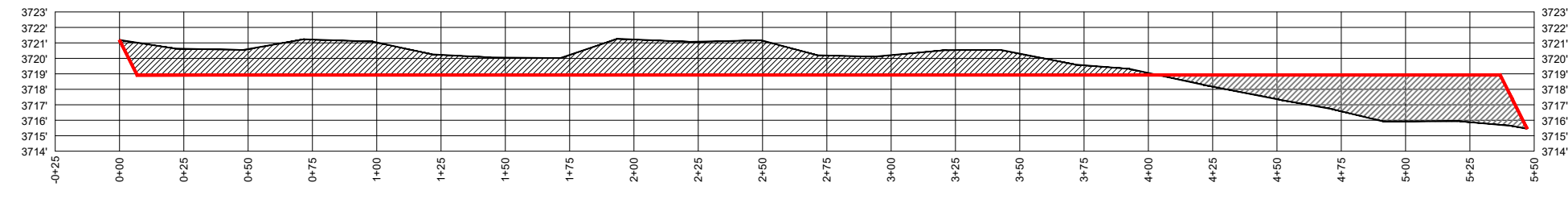
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 BALANCE TOLERANCE (C.Y.): 0.00
 CUT SWELL FACTOR: 1.00
 FILL SHRINK FACTOR: 1.00

PAD EARTHWORK VOLUMES
 CUT : 217,517.7 C.F., 8,056.21 C.Y.
 FILL: 217,517.7 C.F., 8,056.21 C.Y.
 AREA: 237863.5 SQ.FT., 5.461 ACRES

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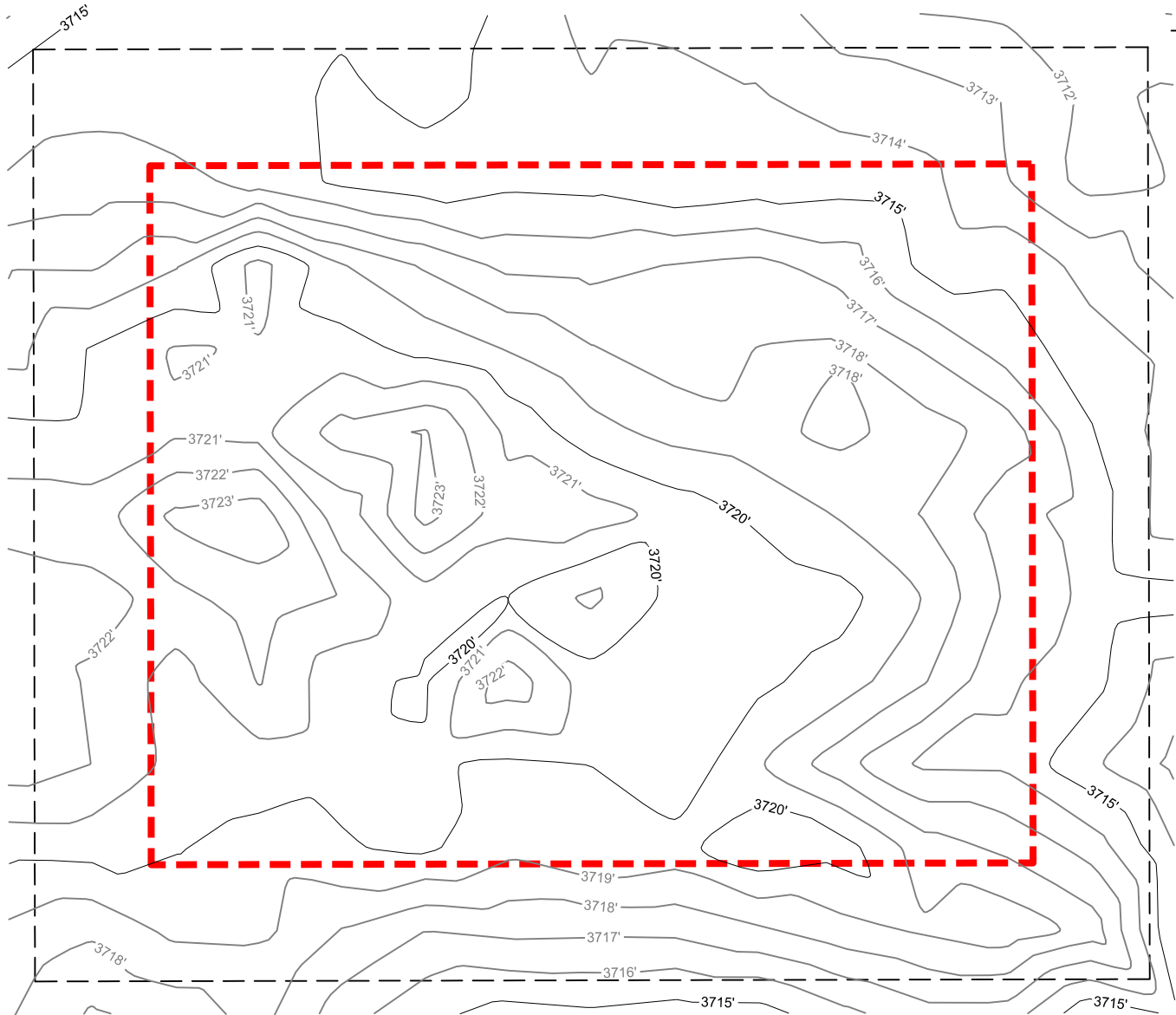
Angel M. Baeza, P.S. No. 25116
MARCH 26, 2019

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LEA COUNTY, NEW MEXICO

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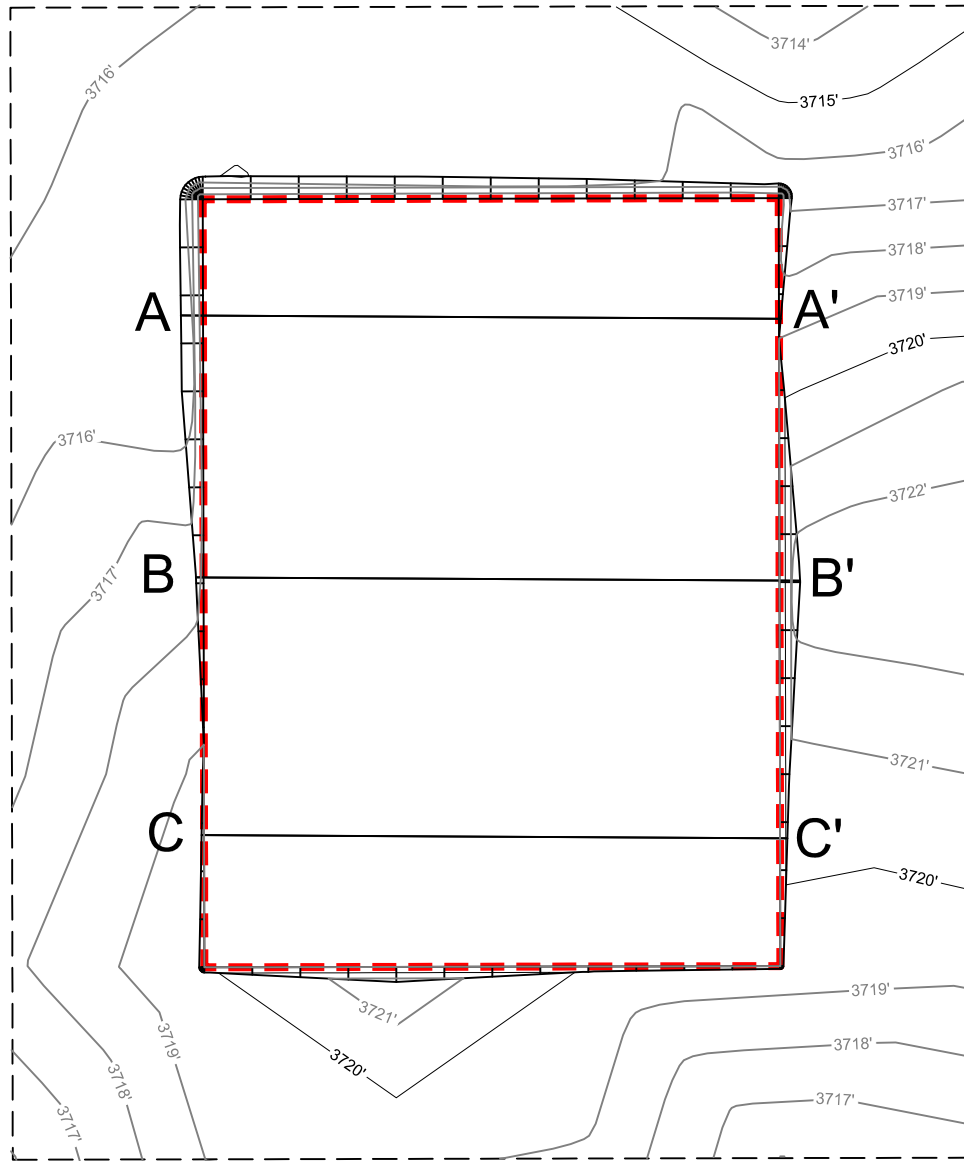
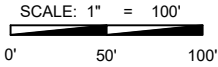
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PRELIMINARY

SECTION 7, TOWNSHIP 23-S, RANGE 33-E, N.M.P.M.
LEA COUNTY, NEW MEXICO



TOPOGRAPHIC
LOYALTY INNOVATION LEGACY

1400 EVERMAN PARKWAY, Ste. 146 • FT. WORTH, TEXAS 76140
TELEPHONE: (817) 744-7512 • FAX (817) 744-7554
2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743
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Angel M. Baeza, P.S. No. 25116

MARCH 26, 2019

Field note description of even date accompanies this plat.

RODNEY ROBINSON E2 FACILITY SITE PROFILE	REVISION:	
	EAH	03/26/19
DATE:	12/04/18	
FILE:	CD_RODNEY_ROBINSON_E2_FACILITY_REV1	
DRAWN BY:	EAH	
SHEET :	1 OF 3	

NOTES:

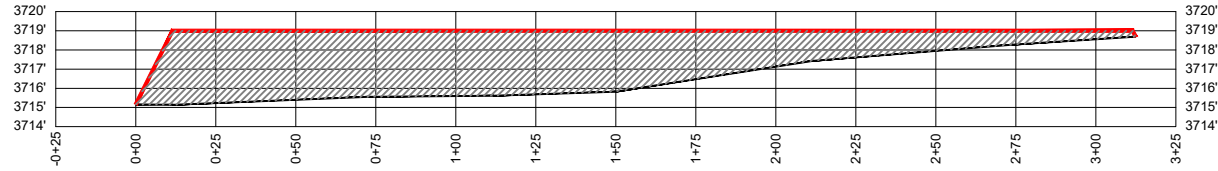
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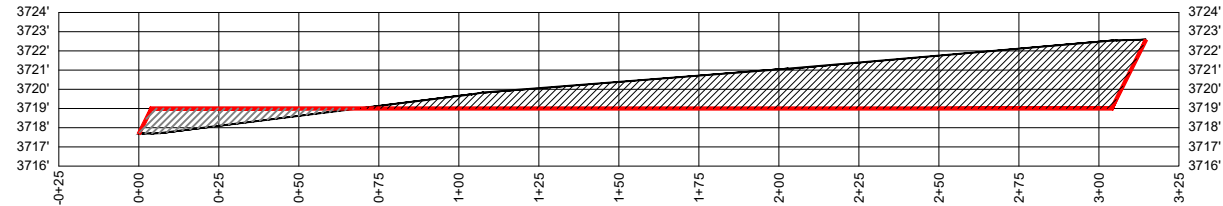
SECTION 7, TOWNSHIP 23-S, RANGE 33-E, N.M.P.M.
LEA COUNTY, NEW MEXICO



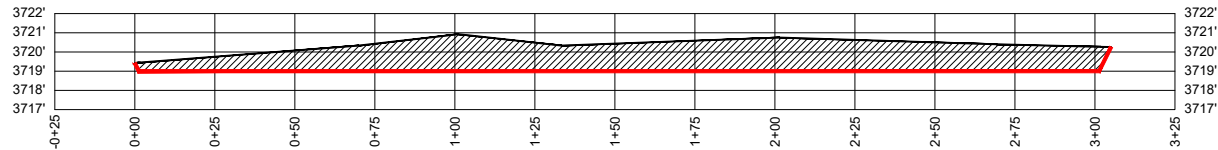
A-A'



B-B'



C-C'



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Horizontal Scale = 1:60
Vertical Scale = 1:10

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	DATE:	12/04/18	
	FILE:	CD_RODNEY_ROBINSON_E2_FACILITY_REV1	
	DRAWN BY:	EAH	
SHEET :	2 OF 3		

TOP OF PAD ELEVATION: 3719.0
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 : 112,817.9 C.F., 4,178.44 C.Y.
FILL: 112,817.9 C.F., 4,178.44 C.Y.
AREA: 128861.5 SQ.FT., 2.958 ACRES

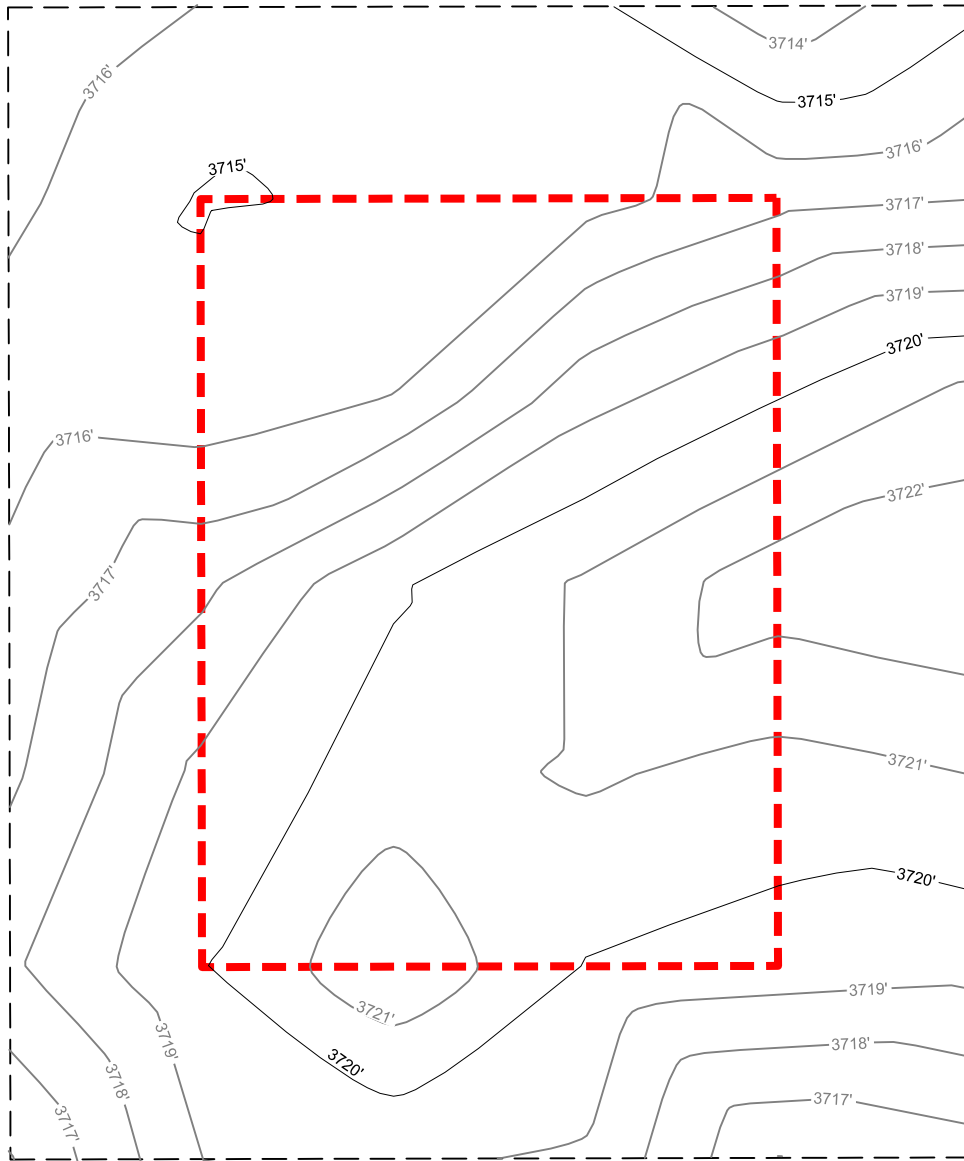
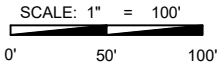
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Angel M. Baeza, P.S. No. 25116
MARCH 26, 2019

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Matador Production Company, LLC
Rodney Robinson Fed Com Slots 3 & 4
Sec. 7, T. 23S., R. 33E.
Lea County, New Mexico

PAGE 1

RODNEY ROBINSON FEDERAL SURFACE USE PLAN OF OPERATIONS

Well Pad Slot 3 (additional wells): 127H, 137H, 223H, & 243H

Well Pad Slot 4 (additional wells): 128H, 138H, 224H, & 244H

1. DIRECTIONS & EXISTING ROADS

From the junction of NM State Highway 128 and Paduca Breaks Ln...
Go Northeast 8.5 miles on Paduca Breaks Ln,
Then turn right and go Southeast on existing well access road.

Roads on lease will be maintained to Gold Book standards. For short- and long-term maintenance, existing well lease roads from the well pads to NM 128 will be maintained jointly by Matador and other operators that regularly use the road. These roads are on both BLM and State land and the necessary Rights-of-Way will be sought from each agency. For any county roads or roads considered as collector roads, the operator will defer to Lea County or the Roads Committee for maintenance determinations. If existing roads require reconstruction due to activity associated with this project, or if required by the New Mexico State Land Office, the operator will upgrade existing non-county road(s) according to State guidelines.

Well location is approximately 29 air miles Northwest of Jal, New Mexico.

2. ROAD TO BE UPGRADED

No new roads will be built.

3. EXISTING WELLS

Existing oil, gas, and P & A wells are within a mile. There are no existing disposal or injection wells within a one-mile radius. Previously approved Rodney Robinson wells have already been drilled and are existing on these pads. New Mexico Office of the State Engineer data does not indicate any fresh water wells within one mile.



Matador Production Company, LLC
Rodney Robinson Fed Com Slots 3 & 4
Sec. 7, T. 23S., R. 33E.
Lea County, New Mexico

PAGE 2

4. PROPOSED PRODUCTION FACILITIES

Production facilities are located on Matador's existing E2 CTB. This facility currently serves previously approved/drilled Rodney Robinson wells on Slot 3 & 4 pads. Matador will add an additional eight (one per additional well) 4" buried flowlines from Slots 3 & 4 to the E2 CTB within the previously approved **454.99'** span. No other new additional facilities will be required.

See table in Section 10 (below) for a detailed break-down of length and acreage for each pad slot and facility.

5. WATER SUPPLY

Water will be trucked via existing roads from the existing Solaris fresh water source on BLM land in Section 35 22S 32E.

6. CONSTRUCTION NOTICES, MATERIALS, & METHODS

As this is an existing pad, no topsoil will be removed since it was previously removed and stockpiled to the side of the pads. Matador does not anticipate the use of more caliche, but if needed, caliche will be hauled from an existing caliche pit located on private land in Section 20 23E 33E. This site is operated by Basin. Pipe racks will face north.

7. WASTE DISPOSAL

Closed loop drilling system will be used. No reserve pit will be used. No blow pit will be used.

All trash will be placed in a portable trash cage. It will be hauled to the Lea County landfill. There will be no trash burning. Contents (drill cuttings, mud, salts, and other chemicals) of the mud tanks will be hauled to R360's state approved (NM-01-0006) disposal site at Halfway. Human waste will be disposed of in chemical toilets and hauled to the Jal wastewater treatment plant.



Matador Production Company, LLC
 Rodney Robinson Fed Com Slots 3 & 4
 Sec. 7, T. 23S., R. 33E.
 Lea County, New Mexico

PAGE 3

8. ANCILLARY FACILITIES

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

9. WELL SITE LAYOUT

See well site layout and rig diagrams for depictions of the well pads, access onto the location, parking, living facilities, and rig orientation.

10. RECLAMATION

As was previously approved, interim reclamation will be completed within 6 months of completing the last well on the pad. Interim reclamation will consist of shrinking the Slot 3 pad by **0.63** acres and the Slot 4 pad by **0.67** acres by removing caliche and reclaiming portions of each pad. Disturbed areas will be contoured to match pre-construction grades. Soil and brush will be evenly spread over disturbed areas and harrowed on the contour. Disturbed areas will be seeded in accordance with the landowner’s requirements.

The existing stockpiled topsoil will be used to cover the remainder of the pads and tank battery when the wells are plugged and the pads reclaimed. Once the last well is plugged, the rest of the pad and associated roads will be similarly reclaimed within 6 months of plugging. Noxious weeds will be controlled.

See following table for a breakdown of newly proposed short-term and long-term disturbance.

Disturbance (acres)			
Facility	Short-term	Interim Reclamation	Long-term
Slot 3 & 4 Flowlines (454.99'x50')	0.52	0.52	0.00
Total	0.52	0.52	0.00



Matador Production Company, LLC
Rodney Robinson Fed Com Slots 3 & 4
Sec. 7, T. 23S., R. 33E.
Lea County, New Mexico

PAGE 4

11. SURFACE OWNER

All construction for Matador's well pads, pipelines, and CTB will be on-lease (BLM minerals) and on lands managed by the State of New Mexico.

12. OTHER INFORMATION

Original on-site inspection for the pads was held on April 23, 2019 with Jesse Bassett (BLM).



Matador Production Company, LLC
Rodney Robinson Fed Com Slots 3 & 4
Sec. 7, T. 23S., R. 33E.
Lea County, New Mexico

PAGE 5

13. REPRESENTATION

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 27th day of October, 2021.



Cory Walk, Agent
Permits West, Inc.
37 Verano Loop, Santa Fe, NM 87508
(505) 466-8120

Field representative will be:

Cassie Hahn, Staff Landman
Matador Production Company
5400 LBJ Freeway, Suite 1500, Dallas TX 75240
Phone: (972) 371-5241





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

PWD Data Report

11/11/2024

APD ID: 10400081455

Submission Date: 11/08/2021

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: RODNEY ROBINSON FED COM

Well Number: 128H

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - General

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

Section 2 - Lined

Would you like to utilize Lined Pit PWD options? N

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Lined pit PWD on or off channel:

Lined pit PWD discharge volume (bbl/day):

Lined pit

Pit liner description:

Pit liner manufacturers

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal

Lined pit precipitated solids disposal schedule:

Lined pit precipitated solids disposal schedule

Lined pit reclamation description:

Lined pit reclamation

Leak detection system description:

Leak detection system

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: RODNEY ROBINSON FED COM

Well Number: 128H

Lined pit Monitor description:

Lined pit Monitor

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

Is the reclamation bond a rider under the BLM bond?

Lined pit bond number:

Lined pit bond amount:

Additional bond information

Section 3 - Unlined

Would you like to utilize Unlined Pit PWD options? N

Produced Water Disposal (PWD) Location:

PWD disturbance (acres):

PWD surface owner:

Unlined pit PWD on or off channel:

Unlined pit PWD discharge volume (bbl/day):

Unlined pit

Precipitated solids disposal:

Describe precipitated solids disposal:

Precipitated solids disposal

Unlined pit precipitated solids disposal schedule:

Unlined pit precipitated solids disposal schedule

Unlined pit reclamation description:

Unlined pit reclamation

Unlined pit Monitor description:

Unlined pit Monitor

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

Beneficial use user

Estimated depth of the shallowest aquifer (feet):

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

TDS lab results:

Geologic and hydrologic

State

Unlined Produced Water Pit Estimated

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

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: RODNEY ROBINSON FED COM

Well Number: 128H

Is the reclamation bond a rider under the BLM bond?

Unlined pit bond number:

Unlined pit bond amount:

Additional bond information

Section 4 -

Would you like to utilize Injection PWD options? N

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Injection PWD discharge volume (bbl/day):

Injection well mineral owner:

Injection well type:

Injection well number:

Injection well name:

Assigned injection well API number?

Injection well API number:

Injection well new surface disturbance (acres):

Minerals protection information:

Mineral protection

Underground Injection Control (UIC) Permit?

UIC Permit

Section 5 - Surface

Would you like to utilize Surface Discharge PWD options? N

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

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 -

Would you like to utilize Other PWD options? N

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Other PWD discharge volume (bbl/day):

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: RODNEY ROBINSON FED COM

Well Number: 128H

Other PWD type description:

Other PWD type

Have other regulatory requirements been met?

Other regulatory requirements



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

Bond Info Data

11/11/2024

APD ID: 10400081455

Submission Date: 11/08/2021

Highlighted data reflects the most recent changes
[Show Final Text](#)

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: RODNEY ROBINSON FED COM

Well Number: 128H

Well Type: OIL WELL

Well Work Type: Drill

Bond

Federal/Indian APD: FED

BLM Bond number:

BIA Bond number:

Do you have a reclamation bond? NO

Is the reclamation bond a rider under the BLM bond?

Is the reclamation bond BLM or Forest Service?

BLM reclamation bond number:

Forest Service reclamation bond number:

Forest Service reclamation bond

Reclamation bond number:

Reclamation bond amount:

Reclamation bond rider amount:

Additional reclamation bond information

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

General Information
Phone: (505) 629-6116

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

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

CONDITIONS

Action 403541

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 403541
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
nfitzgerald	Cement is required to circulate on both surface and intermediate1 strings of casing.	11/15/2024
nfitzgerald	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	11/15/2024
pkautz	EFFECTIVE DATE FOR SUBMITTING TO OCD THE NEW FORM C-102 WAS 08/01/2024. PLEASE SUBMIT THE C-102 ON NEW FORM.	12/1/2024
pkautz	File As Drilled C-102 and a directional Survey with C-104 completion packet.	12/1/2024
pkautz	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string.	12/1/2024
pkautz	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.	12/1/2024