Form 3160-3 (June 2015)		FORM APP OMB No. 10 Expires: Januar	04-0137
UNITED STATES			y 51, 2018
DEPARTMENT OF THE IN	5. Lease Serial No.		
BUREAU OF LAND MANA APPLICATION FOR PERMIT TO D	6. If Indian, Allotee or T	riba Nama	
APPLICATION FOR PERMIT TO D	0. II Indian, Anotee of I		
		7. If Unit or CA Agreem	ant. Name and No.
1a. Type of work: DRILL RI	7. If Ollit of CAAgreen	ent, Name and No.	
1b. Type of Well: Oil Well Gas Well Oil	her	8. Lease Name and Well	No.
1c. Type of Completion: Hydraulic Fracturing Si	ngle Zone 📃 Multiple Zone		
2. Name of Operator		9. API Well No. 30-0)15-54314
3a. Address	3b. Phone No. (include area code)	10. Field and Pool, or E	ploratory
4. Location of Well (Report location clearly and in accordance v	vith any State requirements.*)	11. Sec., T. R. M. or Blk	. and Survey or Area
At surface			
At proposed prod. zone			
14. Distance in miles and direction from nearest town or post offi	ce*	12. County or Parish	13. State
15. Distance from proposed*	16. No of acres in lease 17. Space	ing Unit dedicated to this w	vell
location to nearest property or lease line, ft.			
(Also to nearest drig. unit line, if any)			
 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 (as applicable)	Onshore Oil and Gas Order No. 1, and the l	Hydraulic Fracturing rule p	per 43 CFR 3162.3-3
1. Well plat certified by a registered surveyor.	4. Bond to cover the operation	ns unless covered by an exi	sting bond on file (see
2. A Drilling Plan.	Item 20 above).		<u> </u>
3. A Surface Use Plan (if the location is on National Forest System SUPO must be filed with the appropriate Forest Service Office		rmation and/or plans as may	be requested by the
25. Signature	Name (Printed/Typed)	Dat	e
Title			
Approved by (Signature)	Name (Printed/Typed)	Dat	e
Title	Office		
Application approval does not warrant or certify that the applican	t 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, m of the United States any false, fictitious or fraudulent statements of			lepartment or agency



(Continued on page 2)

*(Instructions on page 2)

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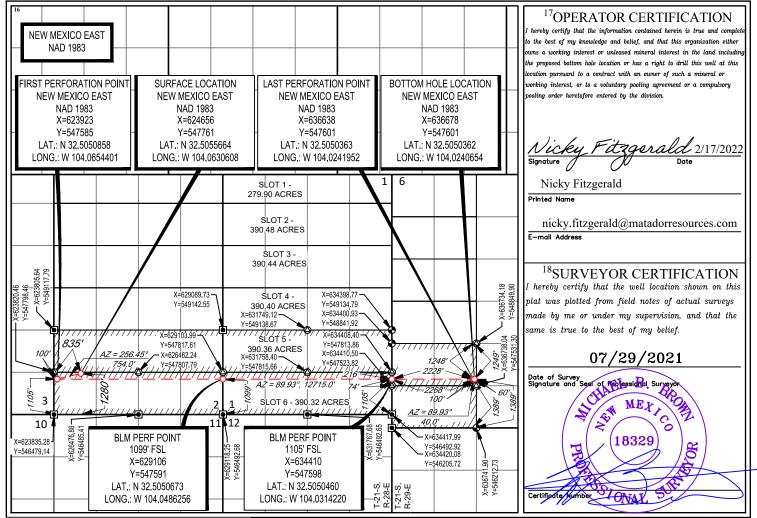
District I 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 District III 811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 District III 1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170 District IV 1220 S. St. Francis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

nber H on 3'											
H on											
on											
3'											
¹⁰ Surface Location											
County											
DDY											
County											
DDY											
]											

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.



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State of New Mexico Submit Electronically Energy, Minerals and Natural Resources Department Via E-permitting **Oil Conservation Division** 1220 South St. Francis Dr. Santa Fe, NM 87505 NATURAL GAS MANAGEMENT PLAN This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well, Section 1 – Plan Description Effective May 25, 2021 I. Operator: Matador Production Company OGRID: 228937 Date: 9/28/2023 **II. Type:** ⊠Original □ Amendment due to □ 19.15.27.9.D(6)(a) NMAC □ 19.15.27.9.D(6)(b) NMAC □ Other. If Other, please describe: ____ III. Well(s): Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point. Anticipated Anticipated Well Name API ULSTR Footages Anticipat Gas MCF/D Produced Water ed Oil BBL/D BBL/D 1,200 2.750 3501' FSL, 170' FWL 1.150 TBD 13-2-21S-28E Simon Camamile 0206 Fed Com 113H 1.200 2,750 3421' FSL, 200' FWL 1,150 13-2-21S-28E Simon Camamile 0206 Fed ГBD Com 114H 2,750 1,200 1280' FSL, 755' FWL 1,150 Simon Camamile 0206 Fed TBD M-2-21S-28E Com 115H TBD 13-2-21S-28E 3391' FSL, 170' FWL 1,000 1,500 2,500 Simon Camamile 0206 Fed Com 134H 2,500 Simon Camamile 0206 Fed TBD M-2-21S-28E 1280' FSL, 835' FWL 1,000 1,500 Com 136H 1.000 3.500 3,500 Simon Camamile 0206 Fed TBD 13-2-21S-28E 3501' FSL, 200' FWL Com 224H IV. Central Delivery Point Name: Simon Camamile South TB [See 19.15.27.9(D)(1) NMAC] V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
Simon Camamile 0206 Fed Com 113H	TBD	1/1/2027	2/1/2027	3/1/2027	4/1/2027	4/1/2027
Simon Camamile 0206 Fed Com 114H	TBD	1/1/2027	2/1/2027	3/1/2027	4/1/2027	4/1/2027
Simon Camamile 0206 Fed Com 115H	TBD	1/1/2027	2/1/2027	3/1/2027	4/1/2027	4/1/2027
Simon Camamile 0206 Fed Com 134H	TBD	1/1/2027	2/1/2027	3/1/2027	4/1/2027	4/1/2027
Simon Camamile 0206 Fed Com 136H	TBD	1/1/2027	2/1/2027	3/1/2027	4/1/2027	4/1/2027
Simon Camamile 0206 Fed Com 224H	TBD	1/1/2027	2/1/2027	3/1/2027	4/1/2027	4/1/2027

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Page 1 of 4

VI. Separation Equipment: Attach a complete description of how Operator will size separation equipment to optimize gas capture.

VII. Operational Practices: ⊠ Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

VIII. Best Management Practices: Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

Section 2 – Enhanced Plan EFFECTIVE APRIL 1, 2022

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

IX. Anticipated Natural Gas Production:

Well	Well API		Anticipated Volume of Natural Gas for the First Year MCF	
		5		

X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacit of System Segment Tie-in

XI. Map. \Box Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

XII. Line Capacity. The natural gas gathering system \Box will \Box will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

XIII. Line Pressure. Operator \Box does \Box does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

□ Attach Operator's plan to manage production in response to the increased line pressure.

XIV. Confidentiality: Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

Section 3 - Certifications Effective May 25, 2021

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal: \square Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

 \Box Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system. *If Operator checks this box, Operator will select one of the following:*

Well Shut-In.
Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

Venting and Flaring Plan. □ Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- (a) power generation on lease;
- (b) power generation for grid;
- (c) compression on lease;
- (d) liquids removal on lease;
- (e) reinjection for underground storage;
- (f) reinjection for temporary storage;
- (g) reinjection for enhanced oil recovery;
- (h) fuel cell production; and
- (i) other alternative beneficial uses approved by the division.

Section 4 - Notices

1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature: MALDON									
Printed Name: Kenneth Dodson									
Title: Staff Facilities Engineer									
E-mail Address: kdodson@matadorresources.com									
Date: 9/28/2023									
Phone: (972) 371-5489									
OIL CONSERVATION DIVISION									
(Only applicable when submitted as a standalone form)									
A summer d Davi									
Approved By:									
Approved By: Title:									
Title:									
Approved By: Title: Approval Date:									
Approved By: Title: Approval Date:									
Approved By: Title: Approval Date:									

Addendum to Natural Gas Management Plan for Matador's

Simon Camamile South TB

VI. Separation Equipment

Flow from the wells will be routed via a flowline to a 48"x15' three phase separator dedicated to the well. The first stage separators are sized with input from BRE ProMax and API 12J. Anticipated production rates can be seen in the below table. Liquid retention times at expected maximum rates will be >3 minutes. Gas will be routed from the first stage separator to sales. Hydrocarbon liquids are dumped from the first stage separator and commingled to one or more heater treaters. The flash gas from the heater treater(s) could either be sent to sales or routed to a compressor if the sales line pressure is higher than the MAWP of the heater treater (125 psi). From the heater treaters, hydrocarbon liquid will be routed to the tanks where vapor is compressed by a VRU if technically feasible to either sales or a compressor if the sales line pressure is higher than the VRU's maximum discharge pressure (~150 psi). Therefore, Matador has sized our separation equipment to optimize gas capture and our separation equipment is of sufficient size to handle the expected volumes of gas.

Well Name	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Simon Camamile 0206 Fed Com 113H	1,150	1,200	2,750
Simon Camamile 0206 Fed Com 114H	1,150	1,200	2,750
Simon Camamile 0206 Fed Com 115H	1,150	1,200	2,750
Simon Camamile 0206 Fed Com 134H	1,000	1,500	2,500
Simon Camamile 0206 Fed Com 136H	1,000	1,500	2,500
Simon Camamile 0206 Fed Com 224H	1,000	3,500	3,500

VII. Operation Practices

Although not a complete recitation of all our efforts to comply with subsection A through F of 19.15.27.8 NMAC, a summary is as follows. During initial flowback we will route the flowback fluids into completion or storage tanks and, to the extent possible, flare rather than vent any gas. We will commence operation of a separator as soon as technically feasible and have instructed our team that we want to connect the gas to sales as soon as possible but not later than 30 days after initial flowback.

Regarding production operations, we have designed our production facilities to be compliant with the requirements of Part E of 19.15.27.8 NMAC. We will instruct our team to perform the AVOs on the frequency required under the rules. While the well is producing, we will take steps to minimize flaring during maintenance, as set forth below, and we have a process in place for the measuring of any flared gas and the reporting of any reportable flaring events.

VII. Best Management Practices

Steps are taken to minimize venting during active or planned maintenance when technically feasible including:

• Isolating the affected component and reducing pressure through process piping

- Blowing down the equipment being maintained to a control device
- Performing preventative maintenance and minimizing the duration of maintenance activities
- Shutting in sources of supply as possible
- Other steps that are available depending on the maintenance being performed

Simon Camamile 0206 Fed Com 136H SHL: 1280' FSL & 835' FWL Section 2 BHL: 1389' FSL & 2268' FWL Section 6 Township/Range: 21S 28E Elevation Above Sea Level: 3348'

Drilling Operation Plan

Proposed Drilling Depth: 22202' MD / 9681' TVD

Type of well: Horizontal well, no pilot hole

Permitted Well Type: Oil

Geologic Name of Surface Formation: Quaternary Deposits

KOP Lat/Long (NAD83): 32.50508721015055 N / -104.06560219750298 W TD Lat/Long (NAD83): 32.50503618282997 N / -104.0240654086356 W

1. Estimated Tops

Formation	MD (ft)	TVD (ft)	Thickness (ft)	Lithology	Resource
Rustler	300	300	449	Anhydrite	Barren
Salado (Top of Salt)	749	749	549	Salt	Barren
Lamar (Base of Salt)	1,298	1,298	(72)	Salt	Barren
Yates	1,226	1,226	51	Cave/Karst	Barren
Seven Rivers	1,277	1,277	435	Cave/Karst	Barren
Capitan	1,712	1,712	2,197	Capitan Aquifer	Barren
Cherry Canyon	3,909	3,909	1,049	Sandstone	Oil/Natural Gas
Brushy Canyon	4,958	4,958	1,369	Sandstone	Oil/Natural Gas
BoneSpring Lime	6,327	6,327	1,109	Limestone	Oil/Natural Gas
1st Bone Spring Sand	7,436	7,436	244	Sandstone	Oil/Natural Gas
2nd Bone Spring Carb	7,680	7,680	507	Limestone	Oil/Natural Gas
2nd Bone Spring Sand	8,187	8,187	306	Sandstone	Oil/Natural Gas
3rd Bone Spring Carb	8,493	8,493	523	Limestone	Oil/Natural Gas
КОР	9,070	9,016	-	Carbonate	Oil/Natural Gas
3rd Bone Spring Sand	9,379	9,310	-	Sandstone	Oil/Natural Gas
TD	22,202	9,681		Sandstone	Oil/Natural Gas

2. Notable Zones

1st 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 50'.

3. Pressure Control

Equipment

Matador requests a variance for a 2M annular to be installed after running 20" casing.

A 12,000' 5000-psi BOP stack consisting of 3 rams with 2 pipe rams, 1 blind ram, and one annular preventer will be utilized below intermediate 1 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

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 intermediate casing, a minimum 5M BOPE system will be installed. Test pressures will be 250 psi low and 5000 psi high with the annular preventer being tested to 250 psi low and 2500 psi high before drilling below intermediate 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, 2 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.

Matador requests a variance for the use of a diverter along with a 2000-psi annular to be installed after running 20" casing.

Matador requests the option to cut off 20" SOW wellhead and run 13-3/8" SOW multi-bowl wellhead system once 1st intermediate string is run and cemented. Both wellhead designs are attached for review.

Matador request the option to utilize a spudder rig for setting surface and intermediate 1 casing strings.

4. Casing & Cement

String	Hole Size (in)	Set MD (ft)	Set TVD (ft)	Casing Size (in)	Wt. (lb/ft)	Grade	Joint	Collapse	Burst	Tension
Surface	26	0 - 325	0 - 325	20	94	J-55	BUTT	1.125	1.125	1.8
Intermediate 1	17.5	0 - 1348	0 - 1348	13.375	54.5	J-55	BUTT	1.125	1.125	1.8
Intermediate 2	12.25	0 - 3934	0 - 3934	9.625	40	J-55	BUTT	1.125	1.125	1.8
Production Top	8.75	0 - 8970	0 - 8916	7	29	P-110	VAM DWC/C	1.125	1.125	1.8

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

Production Bottom	8.75	8970 - 22202	8916 - 9681	5.5	20	P-110	Hunting TLW	1.125	1.125	1.8
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- 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 option to run a full 5.5" production string, cement volumes will be adjusted accordingly.

- Request option drill 8.5" production hole, cement volumes will be adjusted accordingly.

String	Туре	Sacks	Yield	Cu. Ft.	Weight	Percent Excess	Top of Cement	Class	Blend
Surface	Tail	890	1.35	1199	14.8	100%	0	С	5% NaCl + LCM
Intermediate 1	Lead	700	1.78	1250	13.5	50%	0	С	5% NaCl + LCM
	Tail	260	1.35	347	14.8	50%	1048	С	5% NaCl + LCM
Intermediate 2	Lead	890	1.78	1579	13.5	50%	0	С	Bentonite + 1% CaCL2 + 8% NaCl + LCM
	Tail	300	1.35	404	14.8	50%	3147	С	5% NaCl + LCM
Production			A/C	Fluid Loss + Dispersant + Retarder + LCM					
FIGUCTION	Tail	2910	1.35	3923	13.2	15%	8570	A/C	Fluid Loss + Dispersant + Retarder + LCM

Matador requests the option to run a DV tool with annular packer as contingency in the intermediate 1 or 2 section on 13-3/8" or 9-5/8" casing if lost circulation is encountered. If losses occur, the DV tool with packer will be placed at least 100' above the loss zone to give the option to pump cement as either a single stage or two stage.

Example:

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

Stage 1:

Туре	Sacks	Yield	Weight	Percent	Top of	Class	Blend
Lead	695	1.78	13.5	100	0	С	Bentonite + 2% CaCL2 + 3% NaCl + LCM
Tail	288	1.35	14.8	100	1200	С	5% NaCl + LCM

Stage 2:

Туре	Sacks	Yield	Weight	Percent	Top of	Class	Blend
Lead	350	1.78	13.5	10	0	С	Bentonite + 2% CaCL2 + 3% NaCl + LCM

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	26	Spud Mud	0 - 325	8.4 - 8.8	28-30	NC
Intermediate 1	17.5	Brine Water	325 - 1348	9.5 - 10.2	28-32	NC

Intermediate 2	12.25	Fresh Water	1348 - 3934	8.4 - 8.6	28-30	NC
Production	8.75	OBM/Cut Brine	3934 - 22202	8.6 - 9.4	28-30	NC

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

No abnormal pressure or temperature is expected. Bottom hole pressure is 4732 psi. Maximum anticipated surface pressure is 2602 psi. Expected bottom hole temperature is 151° 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 a "H2S Drilling Operation Plan" or "Public Protection Plan" for the drilling and completion of this well. Since we have a H2S safety package on all wells, attached is a "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 the equipment being used.

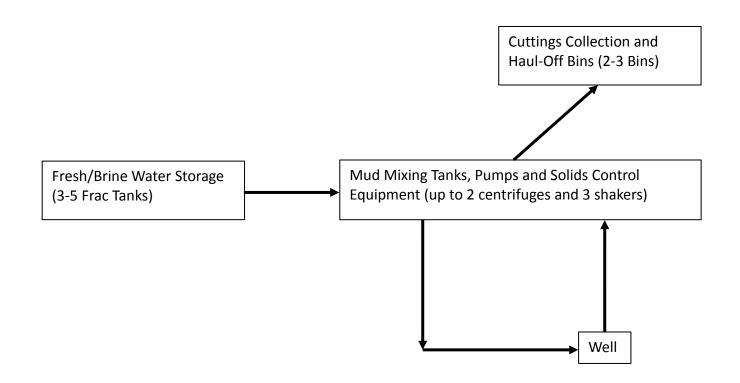
Casing String Specification Sheet

Simon Camamile 0206 Fed Com 136H SHL: 1280' FSL & 835' FWL Section 2 BHL: 1389' FSL & 2268' FWL Section 6 Township/Range: 21S 28E Elevation Above Sea Level: 3348'

String	Hole Size (in)	Set MD (ft)	Set TVD (ft)	Casing Size (in)		Grade	Joint	Collapse	Burst	Tension
Surface	26	0 - 325	0 - 325	20	94	J-55	BUTT	1.125	1.125	1.8
Intermediate 1	17.5	0 - 1348	0 - 1348	13.375	54.5	J-55	BUTT	1.125	1.125	1.8
Intermediate 2	12.25	0 - 3934	0 - 3934	9.625	40	J-55	BUTT	1.125	1.125	1.8
Production Top	8.75	0 - 8970	0 - 8916	7	29	P-110	VAM DWC/C	1.125	1.125	1.8
Production Bottom	8.75	8970 - 22202	8916 - 9681	5.5	20	P-110	Hunting TLW	1.125	1.125	1.8

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Closed-Loop System



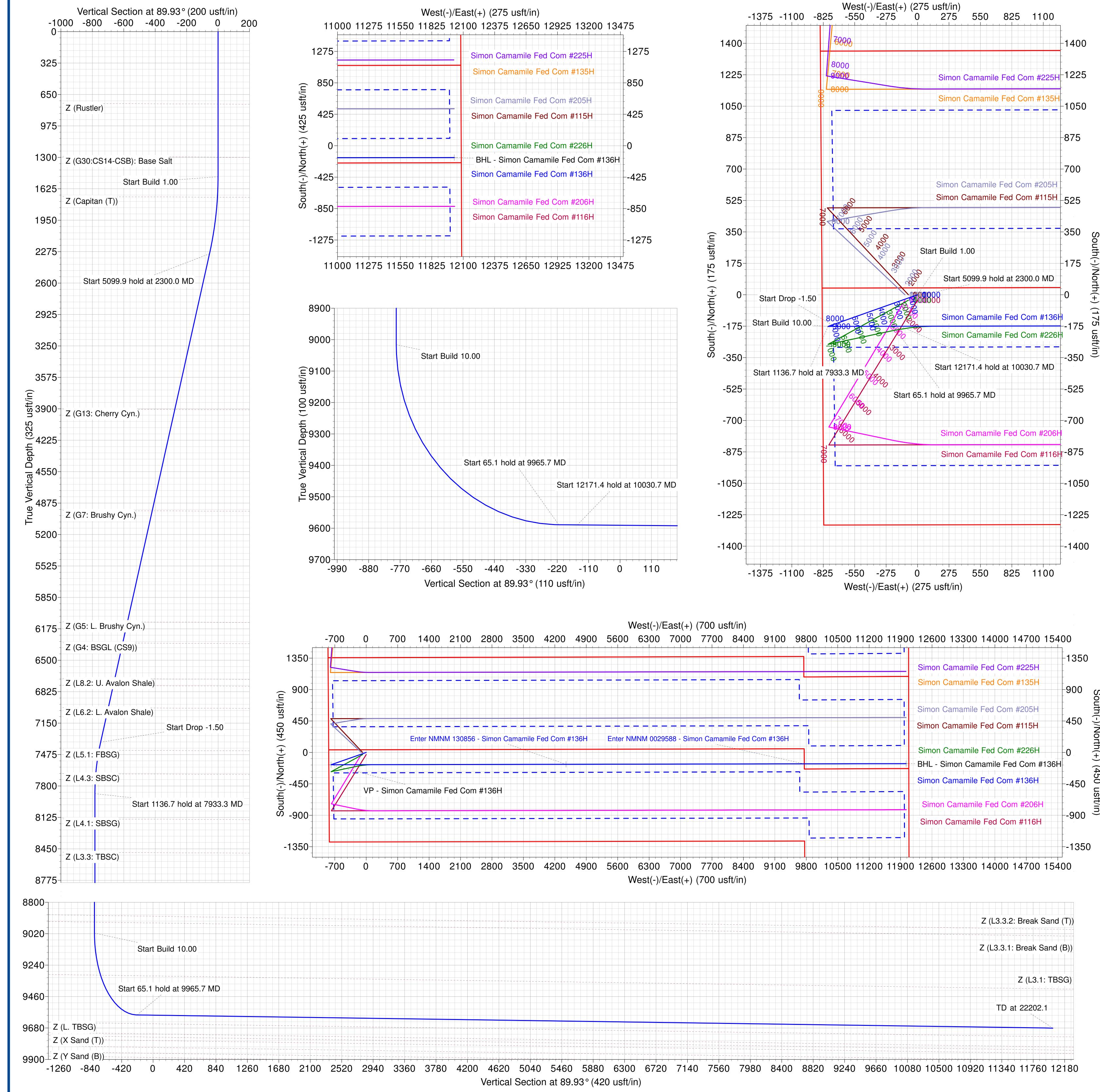
Operating and Maintenance Plan:

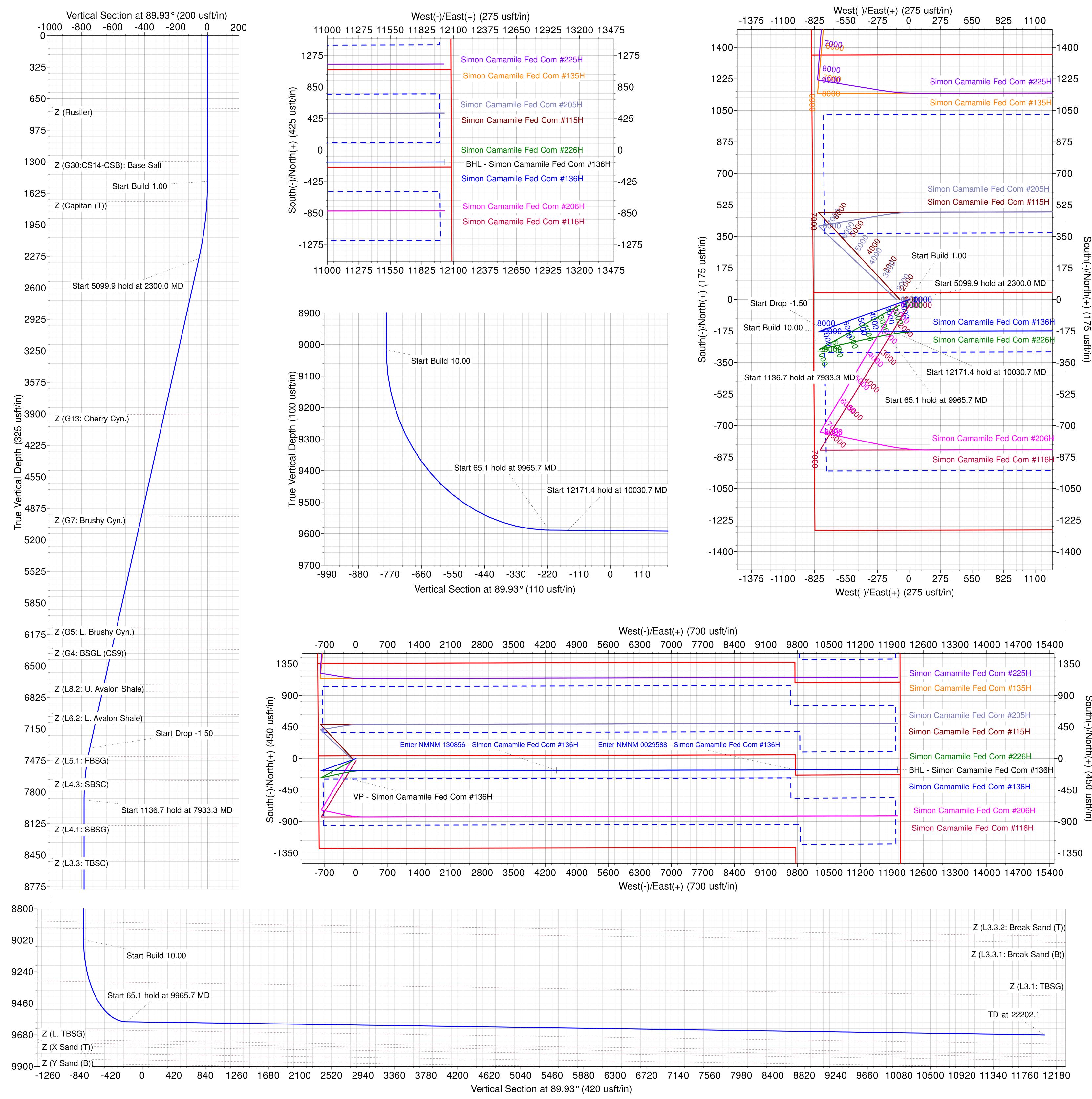
During drilling operations, third party service companies will utilize solids control equipment to remove cuttings from the drilling fluids and collect it in haul-off bins. Equipment will be closely monitored at all times while drilling by the derrick man and the service company employees.

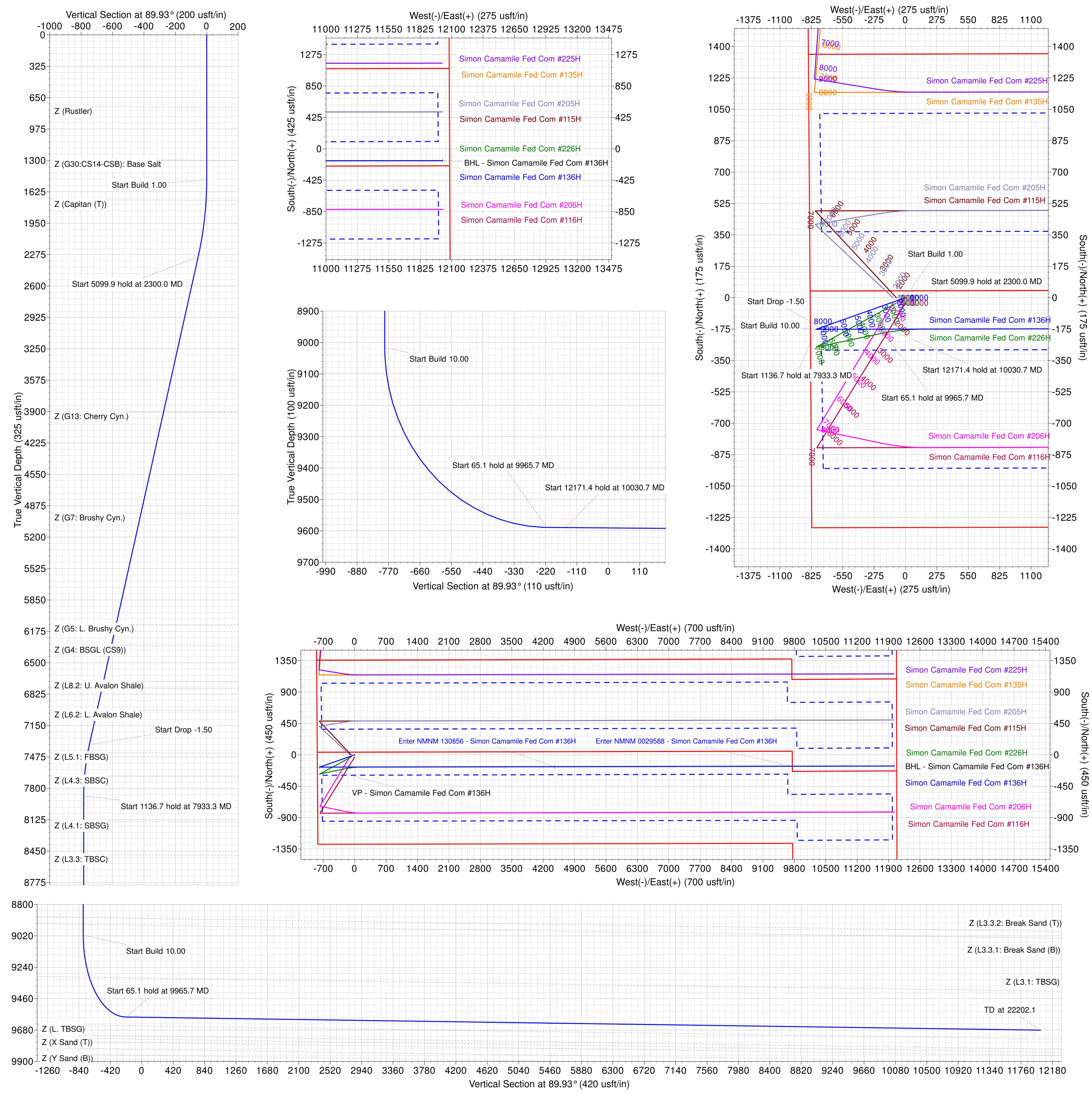
Closure Plan:

During drilling operations, third party service companies will haul off drill solids and fluids to an approved disposal facility. At the end of the well, all closed loop equipment will be removed from the location.

ceived by OCD: 10/9/2023 6:52:21 AM												P	age 15 of 77
	S	SURVEY PROGRAM						WELL	DETAILS:	Simon Ca	mamile Fed Com #136H		
PRODUCTION COMPANY Depth From 0.0		Survey/Plan BLM Plan #1 (Wellb	ore #1)	Tool MWD	+N/-S 0.0	+E/-W 0.0		orthing 700.30		Easting	B @ 3376.5usft Latittude Longitu 2° 30' 19.609 N 104° 3' 45.212		Slot
Company: Matadar Braduation Company							DESIGN 7	TARGE	T DETAILS	5			
Company: Matador Production Company Well: Simon Camamile Fed Com #136H County: Eddy County, NM Wellbore: Wellbore #1 Plan: BLM Plan #1 Date: 01/06/2022	Na	AME VP - Simon Camamile Fed (BHL - Simon Camamile Fed Enter NMNM 0029588 - Sim Enter NMNM 130856 - Simo	d Com #136H non Camami	⊣ le Fed Com #136ŀ	TVD 9016.0 9681.5 9663.8 9624.0	+N/ -176 -160 -163 -169	5.3 -78 0.3 1202 3.4 978	83.1 5 21.6 5 51.3 5	547539.97 547536.90	Easting 582692.00 595496.87 593226.44 587923.65	32° 30' 17.884 N 32° 30' 17.699 N 32° 30' 17.733 N	Longitude 104° 3' 54.361 W 104° 1' 24.833 W 104° 1' 51.346 W 104° 2' 53.269 W	, , ,
Geodetic System: US State Plane 1927 (Exact solution) Datum: NAD 1927 (NADCON CONUS)							SECT	ION DI	ETIALS				
Ellipsoid: Clarke 1866 Zone: New Mexico East 3001 System Datum: Mean Sea Level	-	MD 0.0	Inc 0.00	Azi 0.00	TVD 0.0	+N/-S 0.0	+E/-W 0.0	Dleg 0.00	0.00	0.0	Annotation		
To convert a Magnetic Direction to a Grid Direction, Add 6.56° To convert a Magnetic Direction to a True Direction, Add 6.71° East To convert a True Direction to a Grid Direction, Subtract 0.15°		1500.0 2300.0 7399.9 7933.3	0.00 8.00 8.00 0.00	0.00 257.31 257.31 0.00	1500.0 2297.4 7347.7 7879.3	0.0 -12.2 -168.2 -176.3	0.0 -54.4 -746.8 -783.1	0.00 1.00 0.00 1.50	257.31 0.00	-54.4 -747.0	Start Build 1.00 Start 5099.9 hold at 2300.0 MD Start Drop -1.50 Start 1136.7 hold at 7933.3 MD		
T G M Λ Λ True North: -0.15° Δ Δ Δ		9070.0 9965.7 10030.7	0.00 89.57 89.57	0.00 89.93 89.93	9016.0 9588.9 9589.4	-176.3 -175.6 -175.5	-783.1 -214.4 -149.4	0.00 10.00 0.00	0.00 89.93 0.00	-783.3 -214.7 -149.6	Start Build 10.00 Start 65.1 hold at 9965.7 MD Start 12171.4 hold at 10030.7 M		
Magnetic Field Strength: 47584.6snT Dip Angle: 60.18° Date: 1/6/2022 Model: IGRF2015		22202.1	89.57	89.93	9681.5	-160.3	12021.6	0.00	0.00	12021.4	TD at 22202.1		







teleased to Imaging: 10/11/2023 3:34:47 1

Matador Production Company

Ranger/Arrowhead Simon Camamile Fed Com Simon Camamile Fed Com #136H

Wellbore #1

Plan: BLM Plan #1

Standard Planning Report

14 January, 2022

Database: Company: Project: Site: Well: Wellbore: Design:		Matac Range Simor Simor Wellb	dor Produc er/Arrowh n Camami	Single Use ction Com ead le Fed Co le Fed Co	pany m		TVD Ref MD Refe North Re			Well Simon KB @ 3376. KB @ 3376. Grid Minimum Cu	5usft	I Com#136H
Project	F	Range	r/Arrowhe	ad								
Map System: Geo Datum: Map Zone:	N	AD 19		927 (Exac CON CON 3001)	System D	atum:		Mean Sea Lev Using geodetio		
Site	Ś	Simon	Camamil	e Fed Cor	n							
Site Position: From: Position Unce	rtainty		'Long	0.0 usft	Northin Easting Slot Ra	:	,	700.30 usft 475.03 usft 13-3/16 "	Latitude: Longitud Grid Con	e: vergence:		32° 30' 19.609 N 104° 3' 45.212 W 0.15 °
Well	S	Simon	Camamile	e Fed Con	n #136H							
Well Position	+	⊦N/-S ·E/-W		0.0 usft 0.0 usft	East	•		547,700.30 583,475.03	Busft L	.atitude: .ongitude:		32° 30' 19.609 N 104° 3' 45.212 W
Position Unce	rtainty			0.0 usft	Well	head Ele	vation:		C	Ground Level:		3,348.0 usft
Wellbore		Wellbo	ore #1									
Magnetics		Мо	del Name	:	Sample [Date	Declina (°)		Dip	o Angle (°)		Strength nT)
			IGRF20)15	1/	6/2022		6.71		60.18	47,58	34.56766578
Design	E	BLM P	'lan #1									
Audit Notes: Version:					Phase:		PROTOTYPE	ті	e On Depti	1:	0.0	
Vertical Section	on:			(u	rom (TVE sft)).0))	+N/-S (usft) 0.0	(เ	E/-W Jsft) 0.0	D	virection (°) 89.93	
Plan Survey T Depth Fro (usft) 1		Depti (us	h To ft) Sui	ate 1/14/ rvey (Wel l M Plan #1	bore)	∍#1)	Tool Name MWD OWSG MWI) - Standard	Remark	s		
Plan Sections												
Measured Depth I (usft)	nclina (°)	tion	Azimuth (°)	Vertio Dep (ust	th	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usf	Turn Rate t) (°/100usft)	TFO (°)	Target
0.0 1,500.0 2,300.0 7,399.9 7,933.3 9,070.0 9,965.7 10,030.7	8	0.00 0.00 8.00 8.00 0.00 0.00 9.57 9.57	0.0 0.0 257. 257. 0.0 89.9 89.9	00 1,5 31 2,2 31 7,3 00 7,8 00 9,0 03 9,5	0.0 500.0 297.4 347.7 379.3 016.0 588.9 589.4	0.0 0.0 -12.2 -168.2 -176.3 -176.3 -175.6 -175.5	0.0 -54.4 -746.8 -783.1 -783.1 -214.4 -149.4	0.00 0.00 1.00 0.00 1.50 0.00 10.00 0.00	0.0 1.0 0.0 -1.5 0.0	00 0.00 00 0.00 00 0.00 00 0.00 00 0.00 00 0.00 00 0.00 00 0.00 00 0.00 00 0.00 00 0.00	0 0.00 0 257.31 0 0.00 180.00 0.00 0 0.00 0 89.93	VP - Simon Camarr
22,202.1	8	9.57	89.9	93 9,6	81.5	-160.3	12,021.6	0.00	0.0	0.00	0.00	BHL - Simon Cama

1/14/2022 3:49:33PM

Database: Company:	EDM 5000.14 Single User Db Matador Production Company	Local Co-ordinate Reference: TVD Reference:	Well Simon Camamile Fed Com#136H KB @ 3376.5usft
Project:	Ranger/Arrowhead	MD Reference:	KB @ 3376.5usft
Site:	Simon Camamile Fed Com	North Reference:	Grid
Well:	Simon Camamile Fed Com #136H	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
749.0	0.00	0.00	749.0	0.0	0.0	0.0	0.00	0.00	0.00
Z (Rustler)									
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
1,298.0	0.00	0.00	1,298.0	0.0	0.0	0.0	0.00	0.00	0.00
•	14-CSB): Base								
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
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 Start Build	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	1.00	257.31	1,600.0	-0.2	-0.9	-0.9	1.00	1.00	0.00
1,700.0	2.00	257.31	1,700.0	-0.8	-3.4	-3.4	1.00	1.00	0.00
1,712.0	2.12	257.31	1,712.0	-0.9	-3.8	-3.8	1.00	1.00	0.00
Z (Capitan		257.51	1,712.0	-0.9	-5.0	-5.0	1.00	1.00	0.00
1,800.0	3.00	257.31	1,799.9	-1.7	-7.7	-7.7	1.00	1.00	0.00
1,900.0	4.00	257.31	1,899.7	-3.1	-13.6	-13.6	1.00	1.00	0.00
2,000.0	5.00	257.31	1,999.4	-4.8	-21.3	-21.3	1.00	1.00	0.00
2,100.0	6.00	257.31	2,098.9	-6.9	-30.6	-30.6	1.00	1.00	0.00
2,200.0	7.00	257.31	2,198.3	-9.4	-41.7	-41.7	1.00	1.00	0.00
2,300.0	8.00	257.31	2,297.4	-12.2	-54.4	-54.4	1.00	1.00	0.00
	9 hold at 2300			15.0					
2,400.0 2,500.0	8.00	257.31	2,396.4	-15.3	-68.0 -81.6	-68.0	0.00	0.00	0.00
2,500.0 2,600.0	8.00 8.00	257.31 257.31	2,495.5 2,594.5	-18.4 -21.4	-81.6	-81.6 -95.2	0.00 0.00	0.00 0.00	0.00 0.00
2,700.0	8.00	257.31	2,693.5	-24.5	-108.7	-108.7	0.00	0.00	0.00
2,800.0 2,900.0	8.00	257.31	2,792.5	-27.5	-122.3 -135.9	-122.3 -135.9	0.00	0.00 0.00	0.00
2,900.0 3,000.0	8.00 8.00	257.31 257.31	2,891.6 2,990.6	-30.6 -33.6	-135.9 -149.4	-135.9 -149.5	0.00 0.00	0.00	0.00 0.00
3,100.0	8.00	257.31	3,089.6	-36.7	-149.4	-149.5	0.00	0.00	0.00
			,						
3,200.0 3,300.0	8.00 8.00	257.31 257.31	3,188.6 3,287.7	-39.8 -42.8	-176.6 -190.2	-176.6 -190.2	0.00 0.00	0.00 0.00	0.00 0.00
3,300.0	8.00	257.31	3,386.7	-42.8 -45.9	-190.2	-203.8	0.00	0.00	0.00
3,500.0	8.00	257.31	3,485.7	-48.9	-217.3	-217.4	0.00	0.00	0.00
3,600.0	8.00	257.31	3,584.8	-52.0	-230.9	-231.0	0.00	0.00	0.00
3,700.0	8.00	257.31	3.683.8	-55.0	-244.5	-244.5	0.00	0.00	0.00
3.800.0	8.00	257.31	3,782.8	-58.1	-258.1	-258.1	0.00	0.00	0.00
3,900.0	8.00	257.31	3,881.8	-61.2	-271.6	-271.7	0.00	0.00	0.00
3,925.3	8.00	257.31	3,906.9	-61.9	-275.1	-275.2	0.00	0.00	0.00
Z (G13: Ch									
4,000.0	8.00	257.31	3,980.9	-64.2	-285.2	-285.3	0.00	0.00	0.00
4,100.0	8.00	257.31	4,079.9	-67.3	-298.8	-298.9	0.00	0.00	0.00
4,200.0	8.00	257.31	4,178.9	-70.3	-312.4	-312.5	0.00	0.00	0.00

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COMPASS 5000.14 Build 83

Database: Company:	EDM 5000.14 Single User Db Matador Production Company	Local Co-ordinate Reference: TVD Reference:	Well Simon Camamile Fed Com#136H KB @ 3376.5usft
Project:	Ranger/Arrowhead	MD Reference:	KB @ 3376.5usft
Site:	Simon Camamile Fed Com	North Reference:	Grid
Well:	Simon Camamile Fed Com #136H	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)
4,300.0	8.00	257.31	4,277.9	-73.4	-325.9	-326.0	0.00	0.00	0.00
4,400.0	8.00	257.31	4,377.0	-76.4	-339.5	-339.6	0.00	0.00	0.00
4,500.0	8.00	257.31	4,476.0	-79.5	-353.1	-353.2	0.00	0.00	0.00
4,600.0 4,700.0	8.00 8.00	257.31 257.31	4,575.0 4,674.0	-82.6 -85.6	-366.7 -380.3	-366.8 -380.4	0.00 0.00	0.00 0.00	0.00 0.00
4,800.0	8.00	257.31	4,773.1	-88.7	-393.8	-393.9	0.00	0.00	0.00
4,900.0	8.00	257.31	4,872.1	-91.7	-407.4	-407.5	0.00	0.00	0.00
4,983.6	8.00	257.31	4,954.9	-94.3	-418.8	-418.9	0.00	0.00	0.00
Z (G7: Brus									
5,000.0	8.00	257.31	4,971.1	-94.8	-421.0 -434.6	-421.1 -434.7	0.00	0.00	0.00
5,100.0 5,200.0	8.00 8.00	257.31 257.31	5,070.2 5,169.2	-97.8 -100.9	-434.0 -448.1	-434.7 -448.3	0.00 0.00	0.00 0.00	0.00 0.00
5,300.0	8.00	257.31	5,268.2	-100.0	-461.7	-461.8	0.00	0.00	0.00
5,400.0	8.00	257.31	5,367.2	-107.0	-475.3	-475.4	0.00	0.00	0.00
5,500.0	8.00	257.31	5,466.3	-110.1	-488.9	-489.0	0.00	0.00	0.00
5,600.0	8.00	257.31	5,565.3	-113.1	-502.5	-502.6	0.00	0.00	0.00
5,700.0	8.00	257.31	5,664.3	-116.2	-516.0	-516.2	0.00	0.00	0.00
5,800.0	8.00	257.31	5,763.3	-119.2	-529.6	-529.8	0.00	0.00	0.00
5,900.0	8.00	257.31	5,862.4	-122.3	-543.2	-543.3	0.00	0.00	0.00
6,000.0 6,100.0	8.00 8.00	257.31 257.31	5,961.4 6,060.4	-125.4 -128.4	-556.8 -570.3	-556.9 -570.5	0.00 0.00	0.00 0.00	0.00 0.00
6,143.7	8.00	257.31	6,103.7	-120.4	-576.3	-576.4	0.00	0.00	0.00
	rushy Cyn.)	201101	0,10011		01010	01011	0.00	0.00	0.00
6,200.0	8.00	257.31	6,159.4	-131.5	-583.9	-584.1	0.00	0.00	0.00
6,300.0	8.00	257.31	6,258.5	-134.5	-597.5	-597.7	0.00	0.00	0.00
6,364.6	8.00	257.31	6,322.4	-136.5	-606.3	-606.4	0.00	0.00	0.00
Z (G4: BSG 6,400.0		057.04	6,357.5	107.6	-611.1	-611.2	0.00	0.00	0.00
6,400.0 6,500.0	8.00 8.00	257.31 257.31	6,357.5	-137.6 -140.6	-624.6	-624.8	0.00	0.00	0.00
6,600.0	8.00	257.31	6,555.6	-143.7	-638.2	-638.4	0.00	0.00	0.00
6,700.0	8.00	257.31	6,654.6	-146.8	-651.8	-652.0	0.00	0.00	0.00
6,736.8	8.00	257.31	6,691.1	-147.9	-656.8	-657.0	0.00	0.00	0.00
	Avalon Shale)								
6,800.0	8.00	257.31	6,753.6	-149.8	-665.4	-665.6	0.00	0.00	0.00
6,808.5 Z (L6.3: Av	8.00	257.31	6,762.0	-150.1	-666.5	-666.7	0.00	0.00	0.00
6,900.0	8.00	257.31	6,852.6	-152.9	-679.0	-679.1	0.00	0.00	0.00
7,000.0	8.00	257.31	6,951.7	-155.9	-692.5	-692.7	0.00	0.00	0.00
7,040.5	8.00	257.31	6,991.8	-157.2	-698.0	-698.2	0.00	0.00	0.00
,	Avalon Shale)								
7,100.0	8.00	257.31	7,050.7	-159.0	-706.1	-706.3	0.00	0.00	0.00
7,200.0 7,300.0	8.00	257.31	7,149.7	-162.0	-719.7	-719.9	0.00	0.00	0.00
7,300.0	8.00 8.00	257.31 257.31	7,248.7 7,347.7	-165.1 -168.2	-733.3 -746.8	-733.5 -747.0	0.00 0.00	0.00 0.00	0.00 0.00
Start Drop		_01.01	.,	.00.2	7 10.0		0.00	0.00	0.00
7,400.0	8.00	257.31	7,347.8	-168.2	-746.8	-747.1	0.00	0.00	0.00
7,483.2	6.75	257.31	7,430.3	-170.5	-757.3	-757.5	1.50	-1.50	0.00
Z (L5.1: FB									
7,500.0	6.50	257.31	7,447.0	-170.9	-759.2	-759.4	1.50	-1.50	0.00
7,600.0 7,700.0	5.00	257.31	7,546.5	-173.1	-768.9	-769.1	1.50	-1.50	0.00
	3.50	257.31	7,646.2	-174.8	-776.2	-776.4	1.50	-1.50	0.00
7,728.0	3.08	257.31	7,674.2	-175.1	-777.7	-777.9	1.50	-1.50	0.00

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Database: Company: Project: Site:	EDM 5000.14 Single User Db Matador Production Company Ranger/Arrowhead Simon Camamile Fed Com	Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference:	Well Simon Camamile Fed Com#136H KB @ 3376.5usft KB @ 3376.5usft Grid
Well: Wellbore:	Simon Camamile Fed Com #136H Wellbore #1	Survey Calculation Method:	Minimum Curvature
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)
7,800.0 7,900.0 7,933.3 Start 1136	2.00 0.50 0.00 .7 hold at 7933	257.31 257.31 0.00	7,746.1 7,846.0 7,879.3	-175.8 -176.3 -176.3	-780.8 -783.0 -783.1	-781.0 -783.2 -783.3	1.50 1.50 1.50	-1.50 -1.50 -1.50	0.00 0.00 0.00
8,000.0	0.00	0.00	7,946.0	-176.3	-783.1	-783.3	0.00	0.00	0.00
8,100.0 8,195.1	0.00 0.00	0.00 0.00	8,046.0 8,141.1	-176.3 -176.3	-783.1 -783.1	-783.3 -783.3	0.00 0.00	0.00 0.00	0.00 0.00
Z (L4.1: SI 8,200.0	3SG) 0.00	0.00	8,146.0	-176.3	-783.1	-783.3	0.00	0.00	0.00
8,200.0 8,300.0 8,400.0	0.00 0.00 0.00	0.00 0.00 0.00	8,246.0 8,346.0	-176.3 -176.3 -176.3	-783.1 -783.1 -783.1	-783.3 -783.3 -783.3	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
8,500.0 8,541.1	0.00 0.00	0.00 0.00	8,446.0 8,487.1	-176.3 -176.3	-783.1 -783.1	-783.3 -783.3	0.00 0.00	0.00 0.00	0.00 0.00
Z (L3.3: TE		0.00	0 5 4 0 0	470.0	700.4	700.0	0.00	0.00	0.00
8,600.0 8,700.0 8,800.0	0.00 0.00 0.00	0.00 0.00 0.00	8,546.0 8,646.0 8,746.0	-176.3 -176.3 -176.3	-783.1 -783.1 -783.1	-783.3 -783.3 -783.3	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
8,900.0 8,946.1	0.00 0.00	0.00 0.00	8,846.0 8,892.1	-176.3 -176.3	-783.1 -783.1	-783.3 -783.3	0.00 0.00	0.00 0.00	0.00 0.00
	Break Sand (T)) 0.00	8,939.1	176.0	702.4	-783.3	0.00	0.00	0.00
8,993.1 7 (3 3 1)	0.00 Break Sand (B		8,939.1	-176.3	-783.1	-783.3	0.00	0.00	0.00
9,000.0 9,070.0	0.00 0.00	0.00 0.00	8,946.0 9,016.0	-176.3 -176.3	-783.1 -783.1	-783.3 -783.3	0.00 0.00	0.00 0.00	0.00 0.00
	10.00 - VP - S								
9,100.0 9,200.0 9,300.0 9,379.5	3.00 13.00 23.00 30.96	89.93 89.93 89.93 89.93	9,046.0 9,144.9 9,239.9 9,310.7	-176.3 -176.3 -176.3 -176.2	-782.3 -768.4 -737.5 -701.5	-782.5 -768.6 -737.8 -701.7	10.00 10.00 10.00 10.00	10.00 10.00 10.00 10.00	0.00 0.00 0.00 0.00
Z (L3.1: TE									
9,400.0	33.00	89.93	9,328.1	-176.2	-690.6	-690.9	10.00	10.00	0.00
9,500.0 9,600.0 9,700.0 9,800.0 9,900.0	43.00 53.00 63.00 73.00 83.00	89.93 89.93 89.93 89.93 89.93 89.93	9,406.8 9,473.6 9,526.5 9,563.9 9,584.7	-176.1 -176.0 -175.9 -175.8 -175.7	-629.2 -554.9 -470.2 -377.6 -279.9	-629.4 -555.1 -470.4 -377.8 -280.1	10.00 10.00 10.00 10.00 10.00	10.00 10.00 10.00 10.00 10.00	0.00 0.00 0.00 0.00 0.00
9,965.7	89.57	89.93	9,588.9	-175.6	-214.4	-214.7	10.00	10.00	0.00
	hold at 9965.7								
10,000.0 10,030.7	89.57 89.57	89.93 89.93	9,589.2 9,589.4	-175.6 -175.5	-180.1 -149.4	-180.3 -149.6	0.00 0.00	0.00 0.00	0.00 0.00
10,100.0	1.4 hold at 100 89.57	89.93	9,590.0	-175.5	-80.1	-80.3	0.00	0.00	0.00
10,200.0	89.57	89.93	9,590.7	-175.3	19.9	19.7	0.00	0.00	0.00
10,300.0 10,400.0 10,500.0 10,600.0 10,700.0	89.57 89.57 89.57 89.57 89.57	89.93 89.93 89.93 89.93 89.93 89.93	9,591.5 9,592.2 9,593.0 9,593.7 9,594.5	-175.2 -175.1 -175.0 -174.8 -174.7	119.9 219.9 319.9 419.9 519.9	119.7 219.7 319.7 419.7 519.7	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
10,800.0 10,900.0 11,000.0 11,100.0 11,200.0	89.57 89.57 89.57 89.57 89.57 89.57	89.93 89.93 89.93 89.93 89.93 89.93	9,595.2 9,596.0 9,596.7 9,597.5 9,598.2	-174.6 -174.5 -174.4 -174.2 -174.1	619.9 719.9 819.9 919.9 1,019.9	619.7 719.7 819.7 919.6 1,019.6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00

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Database: Company:	EDM 5000.14 Single User Db Matador Production Company	Local Co-ordinate Reference: TVD Reference:	Well Simon Camamile Fed Com#136H KB @ 3376.5usft
Project:	Ranger/Arrowhead	MD Reference:	KB @ 3376.5usft
Site:	Simon Camamile Fed Com	North Reference:	Grid
Well:	Simon Camamile Fed Com #136H	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)
11,300.0 11,400.0 11,500.0 11,600.0 11,700.0	89.57 89.57 89.57 89.57 89.57 89.57	89.93 89.93 89.93 89.93 89.93	9,599.0 9,599.7 9,600.5 9,601.2 9,602.0	-174.0 -173.9 -173.7 -173.6 -173.5	1,119.9 1,219.9 1,319.9 1,419.8 1,519.8	1,119.6 1,219.6 1,319.6 1,419.6 1,519.6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00
11,800.0 11,900.0 12,000.0 12,100.0 12,200.0	89.57 89.57 89.57 89.57 89.57	89.93 89.93 89.93 89.93 89.93	9,602.7 9,603.5 9,604.2 9,605.0 9,605.7	-173.4 -173.3 -173.1 -173.0 -172.9	1,619.8 1,719.8 1,819.8 1,919.8 2,019.8	1,619.6 1,719.6 1,819.6 1,919.6 2,019.6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00
12,300.0 12,400.0 12,500.0 12,600.0 12,700.0	89.57 89.57 89.57 89.57 89.57	89.93 89.93 89.93 89.93 89.93 89.93	9,606.5 9,607.2 9,608.0 9,608.7 9,609.5	-172.8 -172.6 -172.5 -172.4 -172.3	2,119.8 2,219.8 2,319.8 2,419.8 2,519.8	2,119.6 2,219.6 2,319.6 2,419.6 2,519.6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
12,800.0 12,900.0 13,000.0 13,100.0 13,200.0	89.57 89.57 89.57 89.57 89.57	89.93 89.93 89.93 89.93 89.93 89.93	9,610.2 9,611.0 9,611.7 9,612.5 9,613.2	-172.2 -172.0 -171.9 -171.8 -171.7	2,619.8 2,719.8 2,819.8 2,919.8 3,019.8	2,619.6 2,719.6 2,819.6 2,919.6 3,019.6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00
13,300.0 13,400.0 13,500.0 13,600.0 13,700.0	89.57 89.57 89.57 89.57 89.57 89.57	89.93 89.93 89.93 89.93 89.93 89.93	9,614.0 9,614.7 9,615.5 9,616.2 9,617.0	-171.5 -171.4 -171.3 -171.2 -171.1	3,119.8 3,219.8 3,319.8 3,419.8 3,519.8	3,119.6 3,219.6 3,319.6 3,419.6 3,519.6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00
13,800.0 13,900.0 14,000.0 14,100.0 14,200.0	89.57 89.57 89.57 89.57 89.57 89.57	89.93 89.93 89.93 89.93 89.93 89.93	9,617.7 9,618.5 9,619.2 9,620.0 9,620.7	-170.9 -170.8 -170.7 -170.6 -170.4	3,619.8 3,719.8 3,819.8 3,919.8 4,019.8	3,619.6 3,719.6 3,819.6 3,919.6 4,019.6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
14,300.0 14,400.0 14,500.0 14,600.0 14,700.0	89.57 89.57 89.57 89.57 89.57 89.57	89.93 89.93 89.93 89.93 89.93 89.93	9,621.5 9,622.2 9,623.0 9,623.7 9,624.5	-170.3 -170.2 -170.1 -170.0 -169.8	4,119.8 4,219.8 4,319.8 4,419.8 4,519.8	4,119.6 4,219.6 4,319.6 4,419.5 4,519.5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00
14,800.0 14,900.0 15,000.0 15,100.0 15,200.0	89.57 89.57 89.57 89.57 89.57 89.57	89.93 89.93 89.93 89.93 89.93 89.93	9,625.2 9,626.0 9,626.7 9,627.5 9,628.2	-169.7 -169.6 -169.5 -169.3 -169.2	4,619.8 4,719.8 4,819.7 4,919.7 5,019.7	4,619.5 4,719.5 4,819.5 4,919.5 5,019.5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00
15,300.0 15,400.0 15,500.0 15,600.0 15,700.0	89.57 89.57 89.57 89.57 89.57	89.93 89.93 89.93 89.93 89.93 89.93	9,629.0 9,629.7 9,630.5 9,631.2 9,632.0	-169.1 -169.0 -168.9 -168.7 -168.6	5,119.7 5,219.7 5,319.7 5,419.7 5,519.7	5,119.5 5,219.5 5,319.5 5,419.5 5,519.5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00
15,800.0 15,900.0 16,000.0 16,100.0 16,200.0	89.57 89.57 89.57 89.57 89.57 89.57	89.93 89.93 89.93 89.93 89.93 89.93	9,632.7 9,633.5 9,634.2 9,635.0 9,635.7	-168.5 -168.4 -168.2 -168.1 -168.0	5,619.7 5,719.7 5,819.7 5,919.7 6,019.7	5,619.5 5,719.5 5,819.5 5,919.5 6,019.5	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00
16,200.0 16,400.0 16,500.0 16,600.0	89.57 89.57 89.57 89.57	89.93 89.93 89.93 89.93 89.93	9,636.5 9,637.2 9,638.0 9,638.7	-167.9 -167.8 -167.6 -167.5	6,119.7 6,219.7 6,319.7 6,419.7	6,119.5 6,219.5 6,319.5 6,419.5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00

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COMPASS 5000.14 Build 83

Database: Company:	EDM 5000.14 Single User Db Matador Production Company	Local Co-ordinate Reference: TVD Reference:	Well Simon Camamile Fed Com#136H KB @ 3376.5usft
Project:	Ranger/Arrowhead	MD Reference:	KB @ 3376.5usft
Site:	Simon Camamile Fed Com	North Reference:	Grid
Well:	Simon Camamile Fed Com #136H	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)
16,700.0	89.57	89.93	9,639.5	-167.4	6,519.7	6,519.5	0.00	0.00	0.00
16,800.0	89.57	89.93	9,640.2	-167.3	6,619.7	6,619.5	0.00	0.00	0.00
16,900.0	89.57	89.93	9,641.0	-167.2	6,719.7	6,719.5	0.00	0.00	0.00
17,000.0	89.57	89.93	9,641.7	-167.0	6,819.7	6,819.5	0.00	0.00	0.00
17,100.0	89.57	89.93	9,642.5	-166.9	6,919.7	6,919.5	0.00	0.00	0.00
17,200.0	89.57	89.93	9,643.2	-166.8	7,019.7	7,019.5	0.00	0.00	0.00
17,300.0	89.57	89.93	9,644.0	-166.7	7,119.7	7,119.5	0.00	0.00	0.00
17,400.0	89.57	89.93	9,644.7	-166.5	7,219.7	7,219.5	0.00	0.00	0.00
17,500.0	89.57	89.93	9,645.5	-166.4	7,319.7	7,319.5	0.00	0.00	0.00
17,600.0	89.57	89.93	9,646.2	-166.3	7,419.7	7,419.5	0.00	0.00	0.00
17,700.0	89.57	89.93	9,647.0	-166.2	7,519.7	7,519.5	0.00	0.00	0.00
17,800.0	89.57	89.93	9,647.7	-166.1	7,619.7	7,619.5	0.00	0.00	0.00
17,900.0	89.57	89.93	9,648.5	-165.9	7,719.7	7,719.5	0.00	0.00	0.00
18,000.0	89.57	89.93	9,649.2	-165.8	7,819.7	7,819.5	0.00	0.00	0.00
18,100.0	89.57	89.93	9,650.0	-165.7	7,919.7	7,919.5	0.00	0.00	0.00
18,200.0	89.57	89.93	9,650.7	-165.6	8,019.7	8,019.4	0.00	0.00	0.00
18,300.0	89.57	89.93	9,651.5	-165.4	8,119.7	8,119.4	0.00	0.00	0.00
18,400.0	89.57	89.93	9,652.2	-165.3	8,219.7	8,219.4	0.00	0.00	0.00
18,500.0	89.57	89.93	9,653.0	-165.2	8,319.6	8,319.4	0.00	0.00	0.00
18,600.0	89.57	89.93	9,653.7	-165.1	8,419.6	8,419.4	0.00	0.00	0.00
18,700.0	89.57	89.93	9,654.5	-165.0	8,519.6	8,519.4	0.00	0.00	0.00
18,800.0	89.57	89.93	9.655.2	-164.8	8,619.6	8,619.4	0.00	0.00	0.00
18,900.0	89.57	89.93	9.656.0	-164.7	8,719.6	8.719.4	0.00	0.00	0.00
19,000.0	89.57	89.93	9,656.7	-164.6	8,819.6	8,819.4	0.00	0.00	0.00
19,100.0	89.57	89.93	9,657.5	-164.5	8,919.6	8,919.4	0.00	0.00	0.00
19,200.0	89.57	89.93	9,658.2	-164.3	9,019.6	9,019.4	0.00	0.00	0.00
19,300.0	89.57	89.93	9,659.0	-164.2	9,119.6	9,119.4	0.00	0.00	0.00
19,400.0	89.57	89.93	9,659.7	-164.1	9,219.6	9,219.4	0.00	0.00	0.00
19,500.0	89.57	89.93	9,660.5	-164.0	9,319.6	9,319.4	0.00	0.00	0.00
19,600.0	89.57	89.93	9,661.2	-163.9	9,419.6	9,419.4	0.00	0.00	0.00
19,700.0	89.57	89.93	9,662.0	-163.7	9,519.6	9,519.4	0.00	0.00	0.00
19,800.0	89.57	89.93	9,662.7	-163.6	9,619.6	9,619.4	0.00	0.00	0.00
19,900.0	89.57	89.93	9,663.5	-163.5	9,719.6	9,719.4	0.00	0.00	0.00
20,000.0	89.57	89.93	9,664.2	-163.4	9,819.6	9,819.4	0.00	0.00	0.00
20,100.0	89.57	89.93	9,665.0	-163.2	9,919.6	9,919.4	0.00	0.00	0.00
20,200.0	89.57	89.93	9,665.8	-163.1	10,019.6	10,019.4	0.00	0.00	0.00
20,300.0	89.57	89.93	9,666.5	-163.0	10,119.6	10,119.4	0.00	0.00	0.00
20,400.0	89.57	89.93	9,667.3	-162.9	10,219.6	10,219.4	0.00	0.00	0.00
20,500.0	89.57	89.93	9,668.0	-162.8	10,319.6	10,319.4	0.00	0.00	0.00
20,600.0	89.57	89.93	9,668.8	-162.6	10,419.6	10,419.4	0.00	0.00	0.00
20,700.0	89.57	89.93	9,669.5	-162.5	10,519.6	10,519.4	0.00	0.00	0.00
20,800.0	89.57	89.93	9,670.3	-162.4	10,619.6	10,619.4	0.00	0.00	0.00
20,800.0	89.57	89.93	9,671.0	-162.3	10,019.0	10,019.4	0.00	0.00	0.00
21,000.0	89.57	89.93	9,671.8	-162.1	10,819.6	10,819.4	0.00	0.00	0.00
21,100.0	89.57	89.93	9,672.5	-162.0	10,919.6	10,919.4	0.00	0.00	0.00
21,200.0	89.57	89.93	9,673.3	-161.9	11,019.6	11,019.4	0.00	0.00	0.00
21,300.0	89.57	89.93	9,674.0	-161.8	11,119.6	11,119.4	0.00	0.00	0.00
21,300.0	89.57 89.57	89.93	9,674.0 9,674.8	-161.6	11,219.6	11,119.4	0.00	0.00	0.00
21,500.0	89.57	89.93	9,675.5	-161.5	11,319.6	11,319.4	0.00	0.00	0.00
21,600.0	89.57	89.93	9,676.3	-161.4	11,419.6	11,419.4	0.00	0.00	0.00
21,700.0	89.57	89.93	9,677.0	-161.3	11,519.6	11,519.3	0.00	0.00	0.00
21,800.0	89.57	89.93	9,677.8	-161.2	11,619.6	11,619.3	0.00	0.00	0.00
21,800.0	89.57 89.57	89.93	9,677.6 9,678.5	-161.2	11,719.5	11,719.3	0.00	0.00	0.00
22,000.0	89.57	89.93	9,679.3	-160.9	11,819.5	11,819.3	0.00	0.00	0.00

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Database: Company:	EDM 5000.14 Single User Db Matador Production Company	Local Co-ordinate Reference: TVD Reference:	Well Simon Camamile Fed Com#136H KB @ 3376.5usft
Project: Site:	Ranger/Arrowhead Simon Camamile Fed Com	MD Reference:	KB @ 3376.5usft
Well:	Simon Camamile Fed Com #136H	North Reference: Survey Calculation Method:	Grid Minimum Curvature
Wellbore: Design:	Wellbore #1 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)
22,100.0	89.57	89.93	9,680.0	-160.8	11,919.5	11,919.3	0.00	0.00	0.00
22,200.0	89.57	89.93	9,680.8	-160.7	12,019.5	12,019.3	0.00	0.00	0.00
22.202.1	89.57	89.93	9.681.5	-160.3	12.021.6	12.021.4	0.00	0.00	0.00

Design Targets									
Target Name - hit/miss target D - Shape	ip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
VP - Simon Camamile - plan hits target cen - Point	0.00 Iter	0.01	9,016.0	-176.3	-783.1	547,524.00	582,692.00	32° 30' 17.884 N	104° 3' 54.361 W
BHL - Simon Camami - plan hits target cen - Point	0.00 Iter	0.00	9,681.5	-160.3	12,021.6	547,539.97	595,496.87	32° 30' 17.699 N	104° 1' 24.833 W

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
749.0	749.0	Z (Rustler)		0.43	89.93
1,298.0		Z (G30:CS14-CSB): Base Salt		0.43	89.93
1,712.0	1,712.0	Z (Capitan (T))		0.43	89.93
3,925.3		Z (G13: Cherry Cyn.)		0.43	89.93
4,983.6	4,954.9	Z (G7: Brushy Cyn.)		0.43	89.93
6,143.7	6,103.7	Z (G5: L. Brushy Cyn.)		0.43	89.93
6,364.6	6,322.4	Z (G4: BSGL (CS9))		0.43	89.93
6,736.8	6,691.1	Z (L8.2: U. Avalon Shale)		0.43	89.93
6,808.5	6,762.0	Z (L6.3: Avalon Carb)		0.43	89.93
7,040.5	6,991.8	Z (L6.2: L. Avalon Shale)		0.43	89.93
7,483.2	7,430.3	Z (L5.1: FBSG)		0.43	89.93
7,728.0	7,674.2	Z (L4.3: SBSC)		0.43	89.93
8,195.1	8,141.1	Z (L4.1: SBSG)		0.43	89.93
8,541.1	8,487.1	Z (L3.3: TBSC)		0.43	89.93
8,946.1	8,892.1	Z (L3.3.2: Break Sand (T))		0.43	89.93
8,993.1	8,939.1	Z (L3.3.1: Break Sand (B))		0.43	89.93
9,379.5	9,310.7	Z (L3.1: TBSG)		0.43	89.93

Database: Company: Project: Site:	EDM 5000.14 Single User Db Matador Production Company Ranger/Arrowhead Simon Camamile Fed Com	Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference:	Well Simon Camamile Fed Com#136H KB @ 3376.5usft KB @ 3376.5usft Grid
Well: Wellbore: Design:	Simon Camamile Fed Com #136H Wellbore #1 BLM Plan #1	Survey Calculation Method:	Minimum Curvature
Plan Annotations			

Measured	Vertical	Local Coor	dinates	
Depth (usft)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment
1,500.0	1,500.0	0.0	0.0	Start Build 1.00
2,300.0	2,297.4	-12.2	-54.4	Start 5099.9 hold at 2300.0 MD
7,399.9	7,347.7	-168.2	-746.8	Start Drop -1.50
7,933.3	7,879.3	-176.3	-783.1	Start 1136.7 hold at 7933.3 MD
9,070.0	9,016.0	-176.3	-783.1	Start Build 10.00
9,965.7	9,588.9	-175.6	-214.4	Start 65.1 hold at 9965.7 MD
10.030.7	9,589,4	-175.5	-149.4	Start 12171.4 hold at 10030.7 MD
22,202.1	9,681.5	-160.3	12,021.6	TD at 22202.1

Matador Production Company

Ranger/Arrowhead Simon Camamile Fed Com Simon Camamile Fed Com #136H

Wellbore #1 BLM Plan #1

Anticollision Report

14 January, 2022

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Simon Camamile Fed Com#136H					
Project:	Ranger/Arrowhead	TVD Reference:	KB @ 3376.5usft					
Reference Site:	Simon Camamile Fed Com	MD Reference:	KB @ 3376.5usft					
Site Error:	0.0 usft	North Reference:	Grid					
Reference Well:	Simon Camamile Fed Com #136H	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 Single User Db					
Reference Design:	BLM Plan #1	Offset TVD Reference:	Offset Datum					
Reference	BLM Plan #1							
Filter type:	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 1/14/2022		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	22,202.	1 BLM Plan #1 (Wellbore #1)	MWD	OWSG MWD - Standard

-				
Su	m	m	а	rv

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Dista Between Centres (usft)	nce Between Ellipses (usft)	Separation Factor	Warning
Simon Camamile Fed Com						
Simon Camamile Fed Com #111H - Wellbore #1 - BLM P	1,005.4	944.4	4,484.2	4,477.7	686.868 C	С
Simon Camamile Fed Com #111H - Wellbore #1 - BLM P	1,100.0	1,000.0	4,484.4	4,477.3	634.532 E	S
Simon Camamile Fed Com #111H - Wellbore #1 - BLM P	22,202.1	20,100.0	6,255.0	5,661.6	10.541 SI	=
Simon Camamile Fed Com #112H - Wellbore #1 - BLM P	1,500.0	1,441.0	4,434.7	4,424.6	439.864 C	C
Simon Camamile Fed Com #112H - Wellbore #1 - BLM P	1,800.0	1,740.9	4,436.0	4,423.8	364.001 E	8
Simon Camamile Fed Com #112H - Wellbore #1 - BLM P	22,202.1	19,950.6	5,023.9	4,447.6	8.718 SI	=
Simon Camamile Fed Com #113H - BLM Plan #1 - BLM	1,209.9	1,172.9	2,324.3	2,316.2		
Simon Camamile Fed Com #113H - BLM Plan #1 - BLM	1,300.0	1,228.6	2,324.8	2,316.2		
Simon Camamile Fed Com #113H - BLM Plan #1 - BLM	22,202.1	20,039.0	3,845.5	3,299.3	7.041 SI	
Simon Camamile Fed Com #114H - Wellbore #1 - BLM P	5,298.8	5,265.0	1,938.7	1,900.1		
Simon Camamile Fed Com #114H - Wellbore #1 - BLM P	5,400.0	5,353.6	1,939.3	1,900.0		
Simon Camamile Fed Com #114H - Wellbore #1 - BLM P	22,181.7	20,014.1	2,784.4	2,320.0	5.996 SI	
Simon Camamile Fed Com #115H - Wellbore #1 - BLM P	1,500.0	1,500.0	80.0	69.7	7.773 C	
Simon Camamile Fed Com #115H - Wellbore #1 - BLM P	1,600.0	1,597.7	80.6	69.6		
Simon Camamile Fed Com #115H - Wellbore #1 - BLM P	1,800.0	1,792.6	85.6	73.3		
Simon Camamile Fed Com #116H - Wellbore #1 - BLM F	1,200.0	1,202.0	29.9	21.8	3.674 C	
Simon Camamile Fed Com #116H - Wellbore #1 - BLM F	1,300.0	1,300.8	31.9	23.1	3.611 SI	
Simon Camamile Fed Com #132H - Wellbore #1 - BLM F	1,500.0	1,441.0	4,416.3	4,406.3	438.041 C	
Simon Camamile Fed Com #132H - Wellbore #1 - BLM F	1,600.0	1,525.0	4,416.5	4,405.8	411.593 E	
Simon Camamile Fed Com #132H - Wellbore #1 - BLM F	22,202.1	22,100.9	5,280.3	4,659.1	8.500 SI	
Simon Camamile Fed Com #133H - Wellbore #1 - BLM F	9,205.1	9,156.9	3,959.6	3,891.7	58.352 C	
Simon Camamile Fed Com #133H - Wellbore #1 - BLM F	22,202.1	22,127.6	3,960.3	3,339.8	6.382 E	
Simon Camamile Fed Com #134H - Wellbore #1 - BLM F	1,004.8	969.8	2,219.1	2,212.4	335.334 C	
Simon Camamile Fed Com #134H - Wellbore #1 - BLM F	22,202.1	22,124.7	2,640.1	2,016.9	4.236 E	
Simon Camamile Fed Com #135H - Wellbore #1 - BLM F	9,409.8	9,406.2	1,320.1	1,252.1	19.414 C	
Simon Camamile Fed Com #135H - Wellbore #1 - BLM F	22,110.7	24,577.2	1,320.2	641.4	1.945 E	
Simon Camamile Fed Com #201H - Wellbore #1 - BLM F	1,206.2	1,144.2	4,503.0	4,495.0	565.339 C	
Simon Camamile Fed Com #201H - Wellbore #1 - BLM F	1,300.0	1,200.0	4,503.2	4,494.7	529.719 E	
Simon Camamile Fed Com #201H - Wellbore #1 - BLM F	22,202.1	22,413.9	5,946.7	5,327.0	9.597 SI	
Simon Camamile Fed Com #202H - Wellbore #1 - BLM F	1,500.0	1,438.0	4,479.7	4,469.6	444.801 C	
Simon Camamile Fed Com #202H - Wellbore #1 - BLM F	22,202.1	22,363.8	4,628.6	4,009.1	7.471 ES	
Simon Camamile Fed Com #203H - Wellbore #1 - BLM F	1,009.9	972.9	2,352.8	2,346.1	353.949 C	
Simon Camamile Fed Com #203H - Wellbore #1 - BLM F	1,100.0	1,038.4	2,353.1	2,345.9	326.603 E	
Simon Camamile Fed Com #203H - Wellbore #1 - BLM F Simon Camamile Fed Com #204H - Wellbore #1 - BLM F	22,202.1 10,230.9	22,410.2	3,311.9 1,993.5	2,690.6 1,917.1	5.331 SI	
Simon Camamile Fed Com #204H - Wellbore #1 - BLM F Simon Camamile Fed Com #204H - Wellbore #1 - BLM F	22,202.1	10,419.8	2,001.4	,	26.075 C	
	,	22,373.0	,	1,384.3	3.243 E	
Simon Camamile Fed Com #205H - Wellbore #1 - BLM F	1,500.0	1,500.0	109.9	99.6	10.680 C	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation 1/14/2022 11:15:40AM

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COMPASS 5000.14 Build 83

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	MATADOR PRODUCTION COMPANY
WELL NAME & NO.:	SIMON CAMAMILE 0206 FED COM 136H
SURFACE HOLE FOOTAGE:	1280'/S & 835'/W
BOTTOM HOLE FOOTAGE	1389'/S & 2268'/W
SURFACE LOCATION:	Section 2, T.21 S., R.28 E. NMP.
COUNTY:	Eddy County, New Mexico

COA

H ₂ S	• Yes	C No		
Potash	• None	© Secretary	© R-111-P	
Cave/Karst Potential	C Low	^C Medium	🖸 High	
Cave/Karst Potential	Critical			
Variance	C None	• Flex Hose	C Other	
Wellhead	C Conventional	• Multibowl	C Both	
Wellhead Variance	Diverter			
Other	4 String	Capitan Reef	□WIPP	
Other	□ Fluid Filled	Pilot Hole	□ Open Annulus	
Cementing	Contingency	EchoMeter	Primary Cement	
	Cement Squeeze		Squeeze	
Special Requirements	Water Disposal	COM	🗖 Unit	
Special Requirements	□ Batch Sundry			
Special Requirements	Break Testing	□ Offline	Casing	
Variance		Cementing	Clearance	

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 part 3170 subpart** 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

Primary Casing Design:

NOTE: Surface casing set depth has been adjusted per BLM geologist comment: The operator proposes to set surface casing at 325 feet, which may be too shallow. Instead, set casing 25 feet into the Rustler Formation at approximately 665 feet. The Rustler does vary in this area. If salt is encountered, set casing at least 25 feet above the salt.

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- 1. The 20 inch surface casing shall be set at approximately 665 ft. (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite and above the salt) and cemented to the surface. Note: Due to change of casing set depth, excess cement is below CFO's recommendation of %25. More cement might be needed.
 - 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 <u>8</u>
 <u>hours</u> 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: 1st Intermediate casing set depth has been adjusted per BLM geologist comment: The operator proposes to set the 1st intermediate casing at 1175 feet, which will be in the Salt Formation. Instead, to leave room for a DV Tool and to ensure cement circulated to surface, set casing in the base of the Yates formation at approximately 1650 feet.

2. The 13-3/8 inch 1st intermediate casing shall be set at approximately 1,650 feet. Note: Due to change of casing set depth, excess cement is below CFO's recommendation of %25. More cement might be needed.

The minimum required fill of cement behind the **13-3/8** inch intermediate casing is:

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

Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.

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.

- a. 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.
- b. Second stage above DV tool:
 - **Cement to surface.** If cement does not circulate, contact the appropriate BLM office.

Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.

- In <u>High Cave/Karst Areas</u> if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
- In <u>Capitan Reef Areas</u> if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.

***** Special Capitan Reef requirements:

- Based on BLM Geologist, **Capitan reef top** for the proposed well is approximately at **1,710 ft.** Use freshwater mud to protect the Capitan Reef formation.
- If circulation loss (50% or greater) occurs while drilling Capitan reef, daily drilling reports from the drill out the 1st intermediate casing shoe to the setting of the 2nd intermediate casing are to be submitted to the BLM CFO engineering staff via e-mail by 0800 hours each morning. Any lost circulation encountered is to be recorded on these drilling reports. The daily drilling report should show mud volume per shift/tour. Failure to submit these reports will result in an Incidence of Non-Compliance being issued for failure to comply with the Conditions of Approval. If not already planned, the operator shall run a caliper survey for the intermediate well bore and submit to the appropriate BLM office.
- **3.** The **9-5/8** inch 2nd intermediate casing shall be set at approximately **3,934** feet. The minimum required fill of cement behind the **9-5/8** inch intermediate casing is:

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

Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, potash or Capitan reef.

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.

- c. 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.
- d. Second stage above DV tool:
 - Cement to surface. If cement does not circulate, contact the appropriate BLM office.

Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, potash or Capitan reef.

4. The minimum required fill of cement behind the **7 in. x 5-1/2 in.** tapered production casing is:

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

Note: Operator has requested an option to run a full 5.5" production string. This option was approved. Adjust cement volume accordingly.

Note: Operator has requested an option to drill 8.5" production hole instead of 8.75". This option was approved. Adjust cement volume accordingly.

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 requested a variance to have the option of batch-drilling this well with other wells on the same pad. If this well is batch drilled, the wellbore must be secured with a blind flange of like pressure. When the rig returns to this well and BOPs are installed, the operator must perform a full BOP test.
- 3. Operator has proposed to use a 13-3/8" SOW multi-bowl wellhead assembly on the 1st intermediate string after cutting off 20" SOW wellhead. The assembly will be tested once installed.

Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be tested to 2000 (2M) psi. A Diverter system along with a **2000** (2M) psi annular preventer is approved as a variance to drill the 13-3/8 inch intermediate casing section in a 17-1/2 inch hole.

Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the 13-3/8 inch intermediate casing shoe shall be 2000 (2M) psi. Annular preventer which shall be tested to 1400 (70% Working Pressure) psi.

Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the 9-5/8 inch intermediate casing shoe shall be 3000 (3M) psi. Annular preventer which shall be tested to 2100 (70% Working Pressure) psi.

a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.

- b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
- c. Manufacturer representative shall install the test plug for the initial BOP test.
- d. 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 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. <u>When the Communitization Agreement number is known, it shall also be on the sign.</u>

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

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

Lea County

Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 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 43 CFR part 3170 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.
- <u>Wait on cement (WOC) for Potash Areas:</u> 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 <u>24 hours</u>. WOC time will be recorded in the driller's log. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.

- 3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least <u>8 hours</u>. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
- 5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
- 6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
- 7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
- 8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in 43 CFR part 3170 and API RP 53 Sec. 17.
- 2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.

- 3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
- 4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. Whenever any seal subject to test pressure is broken, all the tests in 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 3170 subpart 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 3170 subpart 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 07/06/2023

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

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

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

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INTRODUCTION

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

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

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

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

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

II. PURPOSE

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

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

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

A. OPERATING PROCEDURES

DEFINITIONS:

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

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

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

GENERAL:

Before this 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 H_2S and the various classified operating conditions. In addition, the reader will be informed his/her general responsibility concerning safety equipment and emergency procedures.

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

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

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

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

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

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

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

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

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

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

C. DRILLING BELOW CONTINGENCY PLAN DEPTH

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

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

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

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

D. PROCEDURES PROGRAM

- 1. Drill Site
 - a. The drilling rig will be located to allow prevailing winds to blow across the reserve pit.
 - A Safe Briefing Area will be provided with a breathing air cascade trailer and or 30-minute SCBA's at the Primary Area. Personnel will assemble at the most up-wind station under alarm conditions, or when so ordered by the MRC Energy Co. representative, the Contractor representative, or

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

- c. Warning signs will be posted on the perimeters. "No Smoking" signs will be posted by MRC Energy Co.as well.
- d. One multi-channel automatic 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 H_2S may be expected. The mud engineer will be able to verify the presence or absence of H2S.

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MRC ENERGY CO.'S

III. CONDITIONS AND EMERGENCY PROCEDURES A. DEFINITION OF OPERATIONAL "CONDITIONS"

CONDITION I Warning Flags Alarms	Gree	SIBLE DANGER" Green No Alarm. Less than 10 ppm		
Characterized By:	conta rema	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:	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 Warning Flags	"MODERA Yello	TE DANGER "		
Alarms:		Actuates at 10 ppm. Continuous flashing light.		
Characterized By:	hydro rema the n sulfic	Drilling operations in zones containing hydrogen sulfide. This condition will remain in effect until adding chemicals to the mud system neutralizes the hydrogen sulfide or it becomes necessary to go to Condition III.		
General Action:	a.	Be alert for a condition change		
	b.	WHEN DRILLING AHEAD - Driller and designated crewmember will don 30 min SCBA, shut-in the well and immediately proceed to the Safe Briefing Area.		
		WHEN TRIPPING – Driller and two designated crewmembers will don 30 min SCBA, shut in the well and immediately proceed to the Safe Briefing Area. The Derrickman will		

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

- c. All In Scope Personnel will proceed directly to the appropriate Safe Briefing Area.
- d. Remain in safe briefing area, take roll call and wait for instructions
- e. Contact the Total H2S Technician if not on location.
- f. Personnel shall ensure that their breathing apparatus is properly fitted and operational before entering an H₂S contaminated area to provide assistance to anyone who may be injured or overcome by toxic gases.
- g. All Out of Scope Personnel will report to the appropriate Safe Briefing Area.

CONDITION III"EXTREME DANGER"Warning FlagsRed

Alarms	Actuate at 15 ppm. Continuous Sirens and Flashing Lights	
Characterized by:	Critical well operations which pose an immediate threat of H_2S exposure to on-spersonnel and a potential threat to the public.	
General Action:	a.	WHEN DRILLING AHEAD - Driller and designated crewmember will don 30 min SCBA, shut-in the well and immediately proceed to the Safe Briefing Area.
		WHEN TRIPPING – Driller and two designated crewmembers will don 30

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

- All In Scope Personnel should don SCBA if nearby and immediately proceed to Safe Briefing Area. If SCBA in not nearby at time of alarm, DO NOT GO TOWARDS RIG AREA, but proceed directly to the Safe Briefing Area
- c. All out of Scope Personnel shall evacuate the location.
- d. Remain in the Safe Briefing Area, take roll call and wait for instructions.
- e. Contact the Total H2S Technician if not on location.
- f. Personnel shall ensure that their breathing apparatus is properly fitted and operational before entering an H_2S contaminated area to provide assistance to anyone who may be injured or overcome by toxic gases. Use the buddy system.
- g. Remain in safe briefing area, take roll call and wait for instructions.
- h. A cascade breathing air systems shall be mobilized and utilized to conduct any additional on rig work required to correct the H2S release condition.
- i. If well is ignited do not assume area is safe. SO2 is hazardous and not all H2S will burn.

H₂S EMERGENCY PROCEDURES; IN SCOPE PERSONNEL

A. Day To Day Drilling Operations

- 1. Upon discovering a release of H_2S gas in the ambient air by warning alarms or in any other way **Do Not Panic**.
- 2. Hold your breath donning the nearest Self Contained Breathing Apparatus and rapidly move up or across-wind away from the areas where H₂S sensing devices are in place, to the closest available safe briefing area. Continue to use breathing apparatus until it has been determined that the exposure of H₂S gas in the ambient air no longer exists. **Do Not Panic**!
- 3. Utilize the "Buddy System", i.e.; select and pair up each person participating in the drilling of an H₂S well prior to an emergency situation.
- 4. Help anyone who is overcome or affected by the H₂S gas by taking him/her up-wind out of the contaminated area. (This should be done utilizing an SCBA and with a buddy.)
- 5. Take necessary steps to confirm the release of the H_2S gas into the ambient air.
 - When an H2S alarm activates, two designated personnel using the buddy system, while wearing their self contained breathing apparatus, will determine by the read-out on the fixed monitor which sensing device has detected the release of the 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 H_2S gas into the ambient air. Comply with the MRC Energy Co. Representative to physically suppress the release of H_2S gas at the actual release point.

8. Check all of MRC Energy Co.'s monitoring devices and increase gasmonitoring activities with the portable hand-operated H₂S and gas detector units.

Do Not Panic!

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

B. RESPONSIBILITIES OF WELL-SITE PERSONNEL

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

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

- a. If MRC Energy Co.'s well-site representative is incapacitated or not on location, this responsibility will fall to the Toolpusher/Driller.
- b. Immediately upon assessing the situation, set this plan into Action by initiating the proper procedures to contain the gas and notify the appropriate people and agencies.
- c. Ensure that the alarm area indicated by the fixed H₂S Monitor is checked and verified with a portable H₂S detector. (Safety Technician if on location or MRC assigned designee with a buddy utilizing SCBA's)
- d. Consult Pusher/driller of remedial actions as needed.
- e. Ensure that non-essential personnel proceed to the safe briefing area.
- f. Ensure location entrance barricades are positioned. Keep the number of persons on location to a minimum during hazardous operations.

- g. Consult each contractor, Service Company and all others allowed to enter the site, that H2S gas may be encountered and the potential hazards that may exist.
- h. Authorize the evacuation of local residents if H_2S threatens Their safety.
 - i. Non essential personnel should be evacuated from location if Situation warrants.

2. Toolpusher

- a. Toolpusher/Driller will assume responsibilities of MRC Energy Co.'s well-site representative if that person is incapacitated or not on location.
- Ensure that the alarm area indicated by the fixed H₂S monitor is checked and verified with a portable H₂S gas detector. (Alarm area indicated by the monitor will be Checked by the H2S Technician and a buddy, under mask.) This will be done after checking in and roll call at the Upwind Safe Briefing Area.
- c. Confer with MRC Energy Co.'s well-site representative or superintendent and direct remedial action to suppress the H₂S and control the well.
- d. Ensure that personnel at the safe briefing area are instructed on emergency actions required.
- e. Ensure that personnel at the drill floor area are instructed on emergency actions required.
- f. Ensure that all personnel observe the appropriate safety and emergency procedures.
- g. Ensure that all persons are accounted for and provided emergency assistance as necessary.

3. Mud Engineer

- a. Run a sulfide check on the flowline mud.
- b. Take steps to determine the source of the H_2S and suppress it. Lime and H_2S scavenger shall be added to the mud as necessary.

4. Total H₂S Safety Technician, if on location, or MRC Designee

- a. H2S Safety Technician or designee don nearest SCBA and report to Safe Briefing Area for roll call, take a buddy masked up and check monitor and verify with a portable H₂S detector the alarm area indicated by the fixed H₂S monitor. Advise the Toolpusher/Driller and MRC Energy Co.'s well-site representative of findings. Record all findings.
- b. If H₂S is flared, check for sulfur dioxide (SO₂) near the flare as necessary. Take hourly readings at different perimeters, log readings and record on location.
- c. Ensure that personnel at the safe briefing area are instructed on emergency actions required.
- d. Ensure that the appropriate warning flags are displayed.
- e. Ensure that all personnel are in S.C.B.A. as necessary.
- f. Ensure that all persons are accounted for and provide emergency assistance as necessary.
- g. Be prepared to evacuate rig if order is issued.

5. General Personnel & Visitors

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

- b. During any emergency, use the "buddy" system to prevent anyone from entering or being left in a gas area alone, even wearing breathing apparatus.
- c. Provide assistance to anyone who may be injured or overcome by toxic gases. Personnel shall ensure that their breathing apparatus is properly fitted and operational before entering a potentially H₂S contaminated area.
- d. Remain in safe briefing area and wait for instructions.

C. INSTRUCTIONS FOR IGNITING THE WELL

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

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

- a. Human life and property are endangered, or
- b. There is no hope of controlling the well under current conditions.
- 2. Once the decision has been made, the following procedures should be followed:
 - a. Two people wearing self-contained breathing apparatus will be needed for the actual lighting of the well. They must first establish the flammable perimeter by using an explosimeter. This should be established at 30% to 40% of the lower flammable limits.
 - b. After the flammable perimeter has been established and everyone removed from the area, the ignition team should select a site upwind of the well from which to ignite the well. This site should offer the maximum protection and have a clear path for retreat from the area.

- c. The ignition team should have safety belts and lifeline attached and manned before attempting ignition. If the leak is not ignited on the first attempt, move in 20 to 30 feet and fire again. Continue to monitor with the explosimeter and NEVER fire from an area with over 75% of the Lower Explosive Limit (LEL). If having trouble igniting the well, try firing 40 degrees to 90 degrees on either side of the well.
- d. If ignition is not possible due to the makeup of the gas, the toxic perimeter must be established and evacuation continued until the well is contained.
- e. All personnel must act only as directed by the person in charge of the operations.

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

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

D. CORING PROCEDURES

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

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

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

Cores will be appropriately marked and sealed for transportation.

Normal Operations

1. Responsibilities of well-site personnel a. Well-site Representative

- 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 H_2S safety equipment is provided on the rig, and that it is properly inspected and maintained.
- 2. Ensure that all personnel that work in the well area, are thoroughly trained in the use of H_2S safety equipment and periodic drills are held to maintain an adequate level of proficiency.

C. In Scope Personnel

- 1. Remain clean-shaven. Beards and long sideburns do not allow a proper facepiece seal.
- 2. Receive H₂S safety training on location, or confirm prior training by certification that is one year within date.
- 3. Familiarize yourself with the rig's Contingency Plan.
- 4. Inspect and practice putting on your breathing apparatus.

- 5. Know the location of the "safe briefing areas".
- 6. Keep yourself "wind conscious". Be prepared to quickly move upwind and away in the event of any emergency involving release of H₂S.

D. Total Safety H₂S Safety Technician or MRC Designee

- 1. Conduct training as necessary to ensure all personnel working in well area are familiar with the contingency procedures and the operation of emergency equipment.
- 2. Check all H₂S safety equipment to ensure that it is ready for emergency use:
 - Check pressure weekly for each shift on breathing apparatus (both 30-minute and hippacks) to make sure they are charged to full volume.
 - Check pressure on cascade air bottles, if on location, to see that they are capable of recharging breathing apparatus.
 - Check oxygen resuscitator, if on location, to ensure that it is charged to full volume.
 - Check H₂S detectors weekly for each shift (fixed and portable), and explosimeter, to ensure they are working properly.
- 3. Provide a weekly report to MRC Energy Co.'s wellsite representative documenting:
 - Calibrations performed on H₂S detectors.
 - Proper location and working order of H₂S safety equipment.
 - Attendance of all personnel, trained or retrained, and their company.
 - Weekly drills, if held and a list of personnel participating and summary of actions.

OUT OF SCOPE PERSONNEL

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

SAFETY EQUIPMENT

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

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

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

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

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

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

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

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

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

scale reading of the concentration of hydrogen sulfide. By changing the type of detector tube used, this detector may also be used for sulfur dioxide (SO₂) detection when hydrogen sulfide (H_2S) is being burned in the flare area.

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

V – TOXICITY OF VARIOUS GASES

l othol	Chemical	Specific		
Lethal Common Name ppm⁴	Formula	Gravity ¹	PEL (OSHA) ²	STEL ³
Hydrogen Cyanide 300	HCN	0.94	10	150
Hydrogen Sulfide 600	H₂S	1.18	20 Pea	ak- 50ppm
Note: The ACGIH(7) red	commends a TW	A(6) value of 10	ppm as the TLV(5) for	H2S and an STEL of
^{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 rexource by OSHA. The ACGIH releases a biannual publication "Threshold Limit Values and Biological Indices" that many safety professionals consider to be the authoritative document on airborne contaminants.

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

VI. PROPERTIES OF GASES

A. <u>CARBON DIOXIDE</u>

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

B. <u>HYDROGEN SULFIDE</u>

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

CONCENTRATION		RATION	EFFECTS	
% H ₂ S	PPM	GR/100 SCF1		
0.001	10	.65	Safe for 8 hours without respirator. Obvious and unpleasant odor.	
0.0015	15	0.975	Safe for 15 minutes of exposure without respirator.	
0.01	100	6.48	Kills smell in 3-15 minutes; may sting eyes and throat.	
0.02	200	12.96	Kills smell quickly; stings eyes and throat.	
0.05	500	32.96	Dizziness; breathing ceases in a few minutes; need prompt artificial respiration.	
0.07	700	45.92	Rapid Unconsciousness; death will result if not rescued promptly.	
0.1	1000	64.80	Instant unconsciousness, followed by death within minutes.	

¹ Grains per 100 Cubic Feet

VII. Treatment Procedures for Hydrogen Sulfide Poisoning

- A. Remove the victim to fresh air.
- B. If breathing has ceased or is labored, begin resuscitation immediately.
 Note: This is the quickest and preferred method of clearing victim's lungs of contaminated air; however, under disaster conditions, it may not be practical to move the victim to fresh air. In such instances, where those rendering first aid must continue to wear masks, a resuscitator should be used.
- C. Apply resuscitator to help purge H₂S from the blood stream.
- D. Keep the victim at rest and prevent chilling.
- E. Get victim under physician's care as soon as possible.

C. <u>SULPHUR DIOXIDE</u>

- 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:

CONCEN	TRATION	EFFECTS	
% SO ₂	PPM		
0.0005	3 to 5	Pungent odor, normally a person can detect SO_2 in this range.	
0.0012	12	Throat irritation, coughing, constriction of the chest, tearing and smarting of eyes.	
0.015	150	So irritating that it can only be endured for a few minutes.	
.05	500	Causes a sense of suffocation, event with the first breath.	

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

An H₂S Drill and Training Session must be given once a week to ALL on-duty personnel with off duty personnel. On-duty and Off-duty personnel will reverse roles on alternate drills.

An H2S drill and training session must be given once a week to all off-duty personnel in coincidence with on-duty personnel reversing roles on alternate drills.

The purpose of this drill is to instruct the crews in the operation and use of breathing air and H₂S related emergency equipment and to allow the personnel to become acquainted with using the equipment under working conditions. The crews should be trained to put on the breathing air equipment within one minute when required or requested to do so.

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

- 1. All personnel should be informed that a drill will be held.
- 2. The Total H2S Safety Technician or a designee assigned by the MRC Drilling Foreman should initiate the drill by signaling as he/she would if H2S was detected.
- 3. Personnel should don their breathing apparatus.
- 4. Once the breathing air equipment is on, the H2S Technician should check all personnel to insure proper operation.

A training and information session will be conducted after each drill to answer any H₂S related questions and to cover any gaps identified from one of the following topics:

- Condition II, and III alerts and steps to be taken by all personnel.
- The importance of wind direction when dealing with H_2S .
- Proper use and storage of all types of breathing equipment.
- Proper use and storage of oxygen resuscitators.
- Proper use and storage of H₂S detectors (Mini Checks or equivalent).
- The "buddy system" and the procedure for rescuing a person overcome by H_2S .
- Responsibilities and duties.
- · Location of H₂S safety equipment.
- Other parts of the "H₂S Contingency Plan" that should be reviewed.

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

IX. HYDROGEN SULFIDE TRAINING CURRICULUM

(FOR EMPLOYERS, VISITORS, AND CONTRACTORS) EACH PERSON WILL BE INFORMED ON THE RESTRICTIONS OF HAVING BEARDS AND CONTACT LENS. THEY WILL ALSO BE INFORMED OF THE AVAILABILITY OF SPECTACLE KITS.

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

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

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

1. **Brief Introduction on H2S**

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

2. H2S Detection

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

3. H2S Protection

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

4. Cascade System

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

5. H2S Rescue and First Aid

- A. Importance of wind direction
- B. Safe briefing area
- C. Buddy system
- D. H2S symptoms
- E. Methods of rescue

6. Hands on Training

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

7. Certification

A. Testing on material covered

.

MRC ENERGY CO.'S

TOTAL SAFETY US INC., FIT TEST

X. EMPLOYEE INFORMATION

Employee Name:		Date:			
Date of Employee Medic	Date of Employee Medical Evaluation:				
Medical Status (circle): Authorized	Unrestricted	Limitations	on Use	Use Not	
RESPIRATOR INFORMA	TIOIN				
Respirator Type (Dustm	ask, SCBA, etc):				
Brand:					
Size: (circle): XS	S	М	L	XL	
FIT TEST INFORMATION	۷				
Type of Fit Test Perform	ned:				
<u>Quantitative</u> Porta Cou Fittester 30			Fit Factor: Fit Factor:		
Qualitative				1	
Irritant Sn			Passed / Faile Passed / Faile		
Saccharin	cetate (Banana Oil	•	Passed / Faile		
Bitrex			Passed / Faile		
I hereby certify that this fittest v Protocols found in Appendix A		accordance wit	th the OSHA 1	Fit Testing	
Fit Tester Name (Print):					
Signature:			_Date:		

XI. H₂S SAFETY SERVICES

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

RESPIRATORY SAFETY SYSTEMS

QTY DESCRIPTION

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

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

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

DETECTION AND ALARM SAFETY SYSTEM

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

ADDITIONAL SAFETY RELATED EQUIPMENT

QTY DESCRIPTION

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

TRAILER WITH BREATHING AIR CASCADE WILL ALSO INCLUDE THE FOLLOWING:

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

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

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

EMERGENCY PHONE NUMBERS

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

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

Hydrogen Sulfide Safety Consultants

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

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MRC ENERGY CO.'S

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

MEDICAL COORDINATOR # -----

Emergency Numbers & Directions

Hospitals (911)

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

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MRC ENERGY CO.'S

$\mathbf{C}(\mathbf{A},\mathbf{D},\mathbf{U}) = (0,1,1)$		
State Police (911)		
Texas DPS Loving co.		
225 N.Pecos	Office Number	432-377-2411
Mentone, Texas 79754		
Texas DPS Winkler Co.		
100 E Winkler	Office Number	432-586-3465
Kermit, Texas 79745		
Texas DPS Pecos Co.		
148 N I-20 Frontage RD	Office Number	432-447-3532
Pecos, Texas 79772		
New Mexico State Police		
3300 W. Main St	Office Number	575-748-9718
Artesia, NM		
New Mexico State Police		
304 N. Canyon St	Office Number	575-885-3137
Carlsbad, NM 88220		
New Mexico State Police		
5100 Jack Gomez Blvd.	Office Number	575-392-5588
Hobbs, NM 88240		

Local Law Enforcement (911) (Sheriff)

<u>, (Sherm)</u>	
Office Number	432-445-4901
Office Number	432-586-3461
Office Number	432-377-2411
Office Number	
Office Number	575-766-9888
Office Number	575-746-9888
	Office Number Office Number Office Number Office Number Office Number

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		
0.5. 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

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

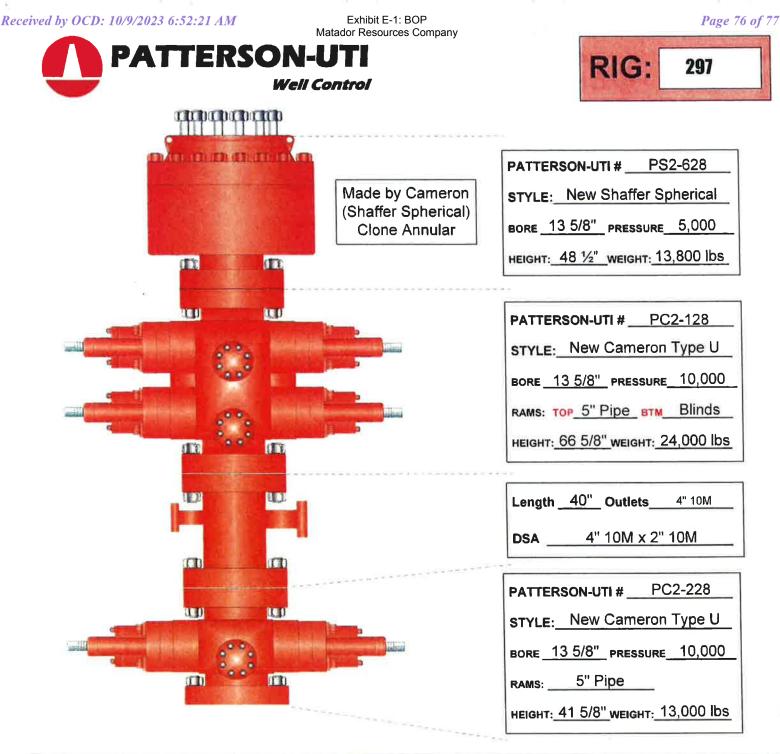
D. One of the products of the combustion of hydrogen sulfide is sulfur dioxide (SO₂). Under certain conditions this gas may be equally as dangerous as H₂S. A pump type detector device, which determines the percent of SO₂ in air through concentrations in ppm, will be available. Although normal air movement 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.

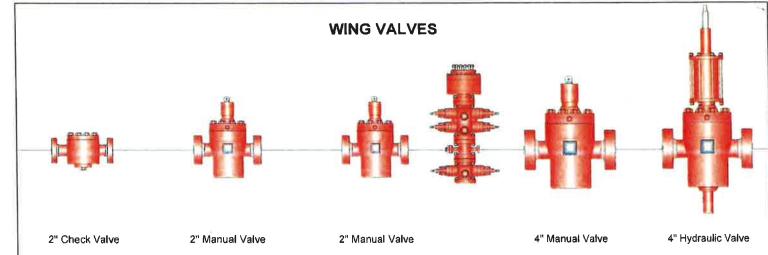
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MRC ENERGY CO.'S

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		
<u>Artesia</u>			
Ambulance		911	
State Police		575-746-2703	
City Police		575-746-2703	
Sheriff's Office		575-746-9888	
Fire Department		575-746-2701	
Local Emergency Planning Committee	e	575-746-2122	
New Mexico Oil Conservation Divisio	n	575-748-1283	_
<u>Carlsbad</u>			
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 Divisio	n	575-887-6544	-
<u>Santa Fe</u>			
New Mexico Emergency Response Co		505-476-9600	
New Mexico Emergency Response Co		505-827-9126	
New Mexico State Emergency Opera	tions Center	505-476-9635	-
<u>National</u>			
National Emegency Response Center	(Washington, D.C.)	800-424-8802	-
<u>Medical</u>			
Flight for Life- 4000 24th St.; Lubbock	k, TX	806-743-9911	
Aerocare- R3, Box 49F; Lubbock, TX		806-747-8923	
Med Flight Air Amb- 2301 Yale Blvd S	· · · · ·	505-842-4433	
SB Air Med Service- 2505 Clark Carr L	oop S.E.; Albuquerque, NM	505-842-4949	
<u>Other</u>			
Boots & Coots IWC		800-256-9688	or 281-931-8884
Cudd Pressure Control		432-699-0139	or 432-563-3356
Haliburton		575-746-2757	
B.J. Services		575-746-3569	





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 Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

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CONDITIONS

Action 273562

CONDITIONS

Operator:	OGRID:	
MATADOR PRODUCTION COMPANY	228937	
One Lincoln Centre	Action Number:	
Dallas, TX 75240	273562	
	Action Type:	
	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)	

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	Notify OCD 24 hours prior to casing & cement	10/11/2023
ward.rikala	Will require a File As Drilled C-102 and a Directional Survey with the C-104	10/11/2023
ward.rikala	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	10/11/2023
ward.rikala	Cement is required to circulate on both surface and intermediate1 strings of casing	10/11/2023
ward.rikala	If cement does not circulate on any string, a CBL is required for that string of casing	10/11/2023
ward.rikala	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	10/11/2023