Form 3160-5 (June 2019)

UNITED STATES DEPARTMENT OF THE INTERIOR DUDE ALL OF LAND MANAGEMENT

FORM APPROVE	D
OMB No. 1004-013	7
Expires: October 31, 2	.02

BURI	EAU OF LAND MANAGEN	MENT		5. Lease Serial No.		
Do not use this f	IOTICES AND REPORTS form for proposals to dril Use Form 3160-3 (APD) fo	an	6. If Indian, Allottee or Tribe Name			
	TRIPLICATE - Other instructions		7. If Unit of CA/Agre	ement, Name and/or No.		
1. Type of Well Oil Well Gas W	Well Other			8. Well Name and No.		
2. Name of Operator	7en Uduei			9. API Well No.		
3a. Address	3b. Pho	one No. (include area c	code)	10. Field and Pool or	Exploratory AreaWC-025-G-08 S253235G; LWR BS	
4. Location of Well (Footage, Sec., T.,R	R.,M., or Survey Description)			11. Country or Parish,	State	
12 CHE	CK THE APPROPRIATE BOX(ES)	TO INDICATE NATI	IRE OF NOTI	CE REPORT OR OTH	HER DATA	
TYPE OF SUBMISSION	CK THE ALTROPRIATE BOA(ES)		TYPE OF ACT		IER DATA	
	Acidize	Deepen		uction (Start/Resume)	Water Shut-Off	
Notice of Intent	Alter Casing	Hydraulic Fracturin	=	amation	Well Integrity	
Subsequent Report	Casing Repair	New Construction	_	mplete	Other	
	Change Plans	Plug and Abandon	=	oorarily Abandon		
Final Abandonment Notice	Convert to Injection	Plug Back	Wate	r Disposal		
4. I hereby certify that the foregoing is	ped)					
		Title				
Signature	X5	Date				
	THE SPACE FOR	FEDERAL OR	STATE OF	ICE USE		
Approved by						
		Title]	Date	
Conditions of approval, if any, are attact ertify that the applicant holds legal or earlich would entitle the applicant to con	equitable title to those rights in the si					
Citle 18 U.S.C Section 1001 and Title 4	3 U.S.C Section 1212 make it a crir	ne for any person know	ingly and will	fully to make to any de	epartment or agency of the United States	

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

(Instructions on page 2)

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GENERAL INSTRUCTIONS

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

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. If the proposal will involve **hydraulic fracturing operations**, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c)and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

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

(Form 3160-5, page 2)

Additional Information

Additional Remarks

From: 22392'MD/12300'TVD - WC-025 G-09 S243336I; Upper Wolfcamp, Pool Code 98092 To: 21240'MD/10980'TVD - Pool: WC-025 G-08 S253235G; Lower Bone Spring, Pool Code 97903

Cimarex is also requesting approval for offline cementing and skid rig. Please attached drilling plan changes, Bops, directional survey and C-102.

Location of Well

0. SHL: NWNE / 330 FNL / 2305 FWL / TWSP: 25S / RANGE: 33E / SECTION: 32 / LAT: 32.09341 / LONG: -103.595413 (TVD: 0 feet, MD: 0 feet) PPP: NENE / 2633 FSL / 2307 FWL / TWSP: 26S / RANGE: 33E / SECTION: 5 / LAT: 32.072531 / LONG: -103.595411 (TVD: 12300 feet, MD: 19858 feet) PPP: NENE / 5278 FSL / 2309 FWL / TWSP: 26S / RANGE: 33E / SECTION: 5 / LAT: 32.0798 / LONG: -103.595411 (TVD: 12300 feet, MD: 17214 feet) PPP: NENE / 3955 FSL / 2308 FWL / TWSP: 26S / RANGE: 33E / SECTION: 5 / LAT: 32.0798 / LONG: -103.595411 (TVD: 12300 feet, MD: 18536 feet) BHL: SWSE / 100 FSL / 2305 FWL / TWSP: 26S / RANGE: 33E / SECTION: 5 / LAT: 32.065569 / LONG: -103.59511 (TVD: 12300 feet, MD: 22392 feet)

<u>District 1</u> 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 Phone: (3/3) 393-0101 Fax: (3/3) 393-0720 District II 811 S. First St., Artesia, NM 88210 Phone: (5/5) 748-1283 Fax: (5/5) 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



WELL LOCATION AND ACREAGE DEDICATION PLAT

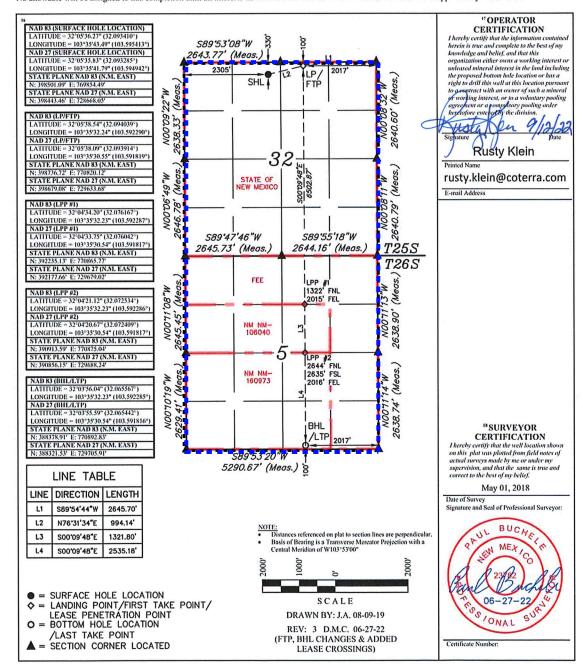
30-025-50208	² Pool Code 97903	WC-025; G-08 S253235G; Lower Bone S			
Property Code		⁵ Property Name	* Well Number		
330240		HLLS 32-5 FED COM	158H		
7 OGRID No.	CIMA	*Operator Name	"Elevation		
215099		AREX ENERGY CO.	3409.1"		

"Surface Location Feet from the

					Bottom Ho	ole Location If	Different Fron	1 Surface		
UL or lot no.	Seet	lon	Township 26S	Range 33E	Lot Idn	Feet from the 100	North/South line SOUTH	Feet from the 2017	East/West line EAST	County LEA
12 Dedicated Acre 1280	es	13 30	oint or Infill	14 Conse	olidation Code	15 Order No.		NSP-2145		

NORTH

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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PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: | Cimarex

LEASE NO.: | NMNM106040A

LOCATION: | Section 32, T.25 S., R.33 E., NMPM

COUNTY: Lea County, New Mexico

WELL NAME & NO.: Red Hills 32-5 Fed Com 158H

SURFACE HOLE FOOTAGE: 330'/N & 2305'/W **BOTTOM HOLE FOOTAGE** 100'/S & 2017'/E

COA

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

A. HYDROGEN SULFIDE

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

B. CASING

- 1. The 13-3/8 inch surface casing shall be set at approximately 1000 feet (a minimum of 25 feet (Lea County) into the Rustler Anhydrite and above the salt) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of 8

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

Operator is approve to use offline cementing on Intermediate casing.

- 2. The minimum required fill of cement behind the 9-5/8 inch intermediate casing is:
 - 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 tail cement slurry due to cave/karst.

Operator shall use a max minimum of 12.5 ppg MW in this location.

- 3. The minimum required fill of cement behind the 7 inch production casing is:
 - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.
- 4. The minimum required fill of cement behind the 4-1/2 inch production liner is:
 - Cement should tie-back 100 feet into the previous casing. Operator shall provide method of verification. Excess calculate to be 11%. Additional cement maybe required.

C. PRESSURE CONTROL

- 1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).
- 2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 5000 (5M) psi. Operator shall add an extra ram before drilling out the Intermeditate shoe.
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
 - e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

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

GENERAL REQUIREMENTS

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

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)
 - Eddy County
 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 Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
- 3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

- 1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
- 2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.

- 5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
- 6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
- 7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
- 8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
- 2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
- 3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
- 4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.

- c. Manufacturer representative shall install the test plug for the initial BOP test.
- d. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i 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 when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time, except the casing pressure test can be initiated immediately after bumping the plug (only applies to single stage cement jobs).
 - c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 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 Onshore Order No. 2.

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.

ZS112922

1. Geological Formations

MD at TD 21,240 Deepest expected fresh water

Formation	Depth (TVD) from KB	Water/Mineral Bearing/Target Zone	Hazards
Rustler	875	Useable Water	
Top Salt	1235	N/A	
Base Salt	4900	N/A	
Bell Canyon	4930	N/A	
Cherry Canyon	5960	Hydrocarbons	
Brushy Canyon	7480	Hydrocarbons	
Bone Spring	9045	Hydrocarbons	
1st Bone Spring	10040	Hydrocarbons	
2nd Bone Spring	10580	Hydrocarbons	

2. Casing Program

Hole Size	Casing Depth From	Casing Depth To	_	Casing Size	Weight (lb/ft)	Grade	Conn.	SF Collapse	SF Burst	SF Tension
17 1/2	0	935	935	13-3/8"	48.00	H-40	ST&C	1.83	4.27	7.17
12 1/4	0	4980	4980	9-5/8"	40.00	HCK-55	LT&C	1.43	1.48	2.82
8 3/4	0	10547	10547	7"	29.00	L-80	LT&C	1.42	1.65	1.84
8 3/4	10547	11297	10975	7"	29.00	P-110	BT&C	1.66	2.18	74.85
6	9547	21240	10980	4-1/2"	11.60	P-110	BT&C	1.48	2.08	22.08
	-				BLM	Minimum Sa	afety Factor	1.125	1	1.6 Dry 1.8 Wet

TVD was used on all calculations.

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

Cimarex Energy Co., Red Hills 32-5 Federal Com 158H

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Υ
Does casing meet API specifications? If no, attach casing specification sheet.	Υ
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Υ
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Υ
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	N
Is well within the designated 4 string boundary.	N
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3rd string cement tied back 500' into previous casing?	N
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	N
Is 2nd string set 100' to 600' below the base of salt?	N
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	N
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	N
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	N
Is AC Report included?	Υ

3. Cementing Program

Casing	# Sks	Wt. lb/gal	Yld ft3/sack	H2O gal/sk	500# Comp. Strength (hours)	Slurry Description		
Surface	385	13.50	1.72	9.15	15.5	Lead: Class C + Bentonite		
	195	14.80	1.34	6.32	9.5	Tail: Class C + LCM		
Intermediate	950	12.90	1.88	9.65	12	Lead: 35:65 (Poz:C) + Salt + Bentonite		
	291	14.80	1.34	6.32	9.5	Tail: Class C + LCM		
Production	354	10.30	3.64	22.18		Lead: Tuned Light + LCM		
	125	14.80	1.36	6.57	9.5	Tail: Class C + Retarder		
Completion System	738	14.20	1.30	5.86	14:30	Tail: 50:50 (Poz:H) + Salt + Bentonite + Fluid Loss + Dispersant + SMS		
1		•	•	-				

Casing String	тос	% Excess
Surface	0	42
Intermediate	0	49
Production	4780	25
Completion System	11097	10

Cimarex request the ability to perform casing integrity tests after plug bump of cement job.

4. Pressure Control Equipment

A variance is requested for the use of a diverter on the surface casing. See attached for schematic.

BOP installed and tested before drilling which hole?	Size	Min Required WP	Туре		Tested To
12 1/4	13 5/8	2M	Annular	Х	
			Blind Ram		
			Pipe Ram		2M
			Double Ram	Х	
			Other		
6	13 5/8	5M	Annular	Х	
			Blind Ram		
			Pipe Ram	Х	5M
			Double Ram	Х	
			Other		

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold. See attached schematics.

X	Formation integrity test will be performed per Onshore Order #2. On Exploratory wells or 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. Will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i.							
Х	Α	variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.						
	1	N Are anchors required by manufacturer?						

5. Mud Program

Depth	Туре	Weight (ppg)	Viscosity	Water Loss
0' to 935'	Fresh Water	7.83 - 8.33	28	N/C
935' to 4980'	Brine Water	9.80 - 10.30	30-32	N/C
4980' to 11640'	Cut Brine or OBM	8.50 - 9.00	27-70	N/C
11640' to 21240'	ОВМ	8.50 - 9.00	50-70	N/C

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

What will be used to monitor the loss or gain of fluid?	PVT/Pason/Visual Monitoring

6. Logging and Testing Procedures

Logg	ging, Coring and Testing
	Will run GR/CNL fromTD to surface (horizontal well – vertical portion of hole). Stated logs run will be in the Completion Report and submitted to the BLM.
Х	No logs are planned based on well control or offset log information.
	Drill stem test?
	Coring?

Additional Logs Planned	Interval

7. Drilling Conditions

Condition	
BH Pressure at deepest TVD	5138 psi
Abnormal Temperature	No

Hydrogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.

X H2S is present

X H2S plan is attached

8. Other Facets of Operation

9. Wellhead

A multi-bowl wellhead system will be utilized.

After running the 13-3/8" surface casing, a 13 5/8" BOP/BOPE system with a minimum working pressure of 5000 psi will be installed on the wellhead system and will be pressure tested to 250 psi low followed by a 5000 psi test. Annular will be tested to working pressure, or a maximum test pressure of 5000 psi. The pressure test will be repeated at least every 30 days, as per Onshore Order No. 2.

The multi-bowl wellhead will be installed by vendor's representative. A copy of the installation instructions has been sent to the BLM field office.

The wellhead will be installed by a third-party welder while being monitored by the wellhead vendor representative.

All BOP equipment will be tested utilizing a conventional test plug. Not a cup or J-packer type.

A solid steel body pack-off will be utilized after running and cementing the intermediate casing. After installation the pack-off and lower flange will be pressure tested to 5000 psi.

A solid steel body pack-off will be utilized after running and cementing the production casing. After installation the pack-off and lower flange will be pressure tested to 5000 psi.

All casing strings will be tested as per Onshore Order No.2 to at least 0.22 psi/ft or 1,500 whichever is greater and not to exceed 70% of casing burst.

If well conditions dictate conventional slips will be set and BOPE will be tested to appropriate pressures based on permitted pressure requirements.

10. Other Variances

Cimarex requests to perform offline cementing. OLC procedure as follows: 1. Land casing on solid body mandrel hanger. Engage packoff and lock ring. 2. Install BPV. 3. Skid rig. 4. Check for pressure and remove BPV. 5. Circulate down casing, taking returns through casing valves. 6. Pump lead and tail cement. 7. Displace cement and bump the plug. 8. Ensure floats are holding pressure. 9. RD cement crew. 10. Install BPV and TA cap.

Cimarex requests permission to skid the rig to the next well on the pad to begin operations instead of waiting 8 hours for surface cement to harden on this 158H well. Surface cement will be pumped and we will ensure floats hold, do a green cement test and then skid to the next well on pad. We will not perform any operations on this 158H well until at least 8 hours and when both tail and lead slurry reach 500 psi. The mandrel hanger is made up on the last joint of 13 3/8" casing and then lowered down with and landing joint. It is then lowered down until the mandrel contacts the landing ring which is pre-welded to the conductor pipe. At this point the 13 3/8" casing is entirely supported by the conductor pipe via the landing ring/mandrel and is independent from the rig. This allows us to walk the rig away from the 158H well and begin work on the next well while the cement is hardening. There is no way for the casing to be moved or knocked off center since it is hanging from the landing ring.

Released to Imaging: 2/15/2023 2:30:29 PM

CIMAREX ENERGY COMPANY
RED HILLS 32 5 FEDERAL COM #158H
30-025-50208
Section 32-T25S-R33E
Lea Co., NM

THE CASING PROGRAM WILL BE CHANGED AS FOLLOWS:

FROM:

	CASING	CASING	SETTING							
HOLE	10-04-01-01-01-01-01-01-01-01-01-01-01-01-01-	Semilar Made at Assert Front	PERSON IN THE STREET SOME	CASING	WEIGHT			SF	SF	SF
SIZE	FROM	то	TVD	SIZE	(LB/FT)	GRADE	CONN	COLLAPSE	BURST	TENSION
14-3/4"	0	984'	984'	10-3/4"	40.5#	J-55	вт&с	3.51	6.95	15.78
9-7/8"	0	12426'	12251'	7-5/8"	29.7#	L-80	вт&с	2.50	1.20	1.82
6-3/4"	0	11700'	11700'	5-1/2"	20#	L-80	LT&C	1.16	1.21	1.88
6-3/4"	11700'	22392'	12300'	5"	18#	P-110	вт&с	1.68	1.70	53.70
					BLM	Minimu	m Safet	1.25	1	1.6 dry
										1.8 wet

TVD was used on all calculations

All casing strings will be tested in accordance with Onshore Oil & Gas Order #2 III.B.1.H

Request Variance for 5-1/2" x 7-5/8" annular clearance. The portion that does not meet clearance will be cemented.

TO:

	CASING	CASING	SETTING							
HOLE	DEPTH	DEPTH	DEPTH	CASING	WEIGHT			SF	SF	SF
SIZE	FROM	то	TVD	SIZE	(LB/FT)	GRADE	CONN.	COLLAPSE	BURST	TENSION
17-1/2"	0	935'	935'	13-3/8"	48#	H-40	ST&C	1.83	4.27	7.17
12-1/4"	0	4980'	4980'	9-5/8"	40#	HCK-55	LT&C	1.43	1.48	2.82
8-3/4"	0	10547'	10547'	7"	29#	L-80	LT&C	1.42	1.65	1.84
8-3/4"	10547'	11297'	10975'	7"	29#	P-110	вт&с	1.66	2.18	74.85
6"	9547'	21240'	10980'	4-1/2"	11.6#	P-110	вт&с	1.48	2.08	22.08
			·		BLM	Minimu	m Safet	1.125	1	1.6 dry
										1.8 wet

TVD was used on all calculations.

All casing strings will be tested in accordance with Onshore Oil & Gas Order #2 III.B.1.h.

Cimarex is also requesting approval for off line cementing and request approval to skid the rig to the next well on the pad to begin operations instead of waiting 8 hours for the surface casing cement to harden before skidding the rig.

An updated drilling plan is attached.

Schlumberger

Cimarex Red Hills 32-5 Fed Com 158H Rev3 kFc 01Sep22 Proposal Geodetic Report



September 02, 2022 - 04:11 PM
Cimarex Energy
MM Lea County (IAD 83)
Cimarex Red Hills 32-5 Fed Corn 158H / 158H
Red Hills 32-5 Fed Corn 158H
Red Hills 32-5 Fed Corn 158H
Unknown / Unknown
Cimarex Red Hills 32-5 Fed Corn 158H Rev3 kFo 015ep22
September 01, 2022
136,169 / 11438,900 ft / 6.477 / 1.038
NADBS New Mexico State Plane, Eastern Zone, US Feet
N 32* 53 62/3717; W 103* 35* 43.46760*
N 398501.090 ftUS, E 769854.490 ftUS
0.3921*
0.99996699

Report Date:
Client:
Field:
Well:
Borehole:
UWI / API#:
Survey Name:
Survey Oate:
Torl / API O DO I ERD Railo:
Coordinate Reference System:
Localion Laft Long:
Localion Grid ME TyX:
For Said Coverage Carl Scale Factor:
Version I Patch: Version / Patch: 2.10.832.2

Fran)

Survey / DLS Computation:

Vertical Section Azimuth:

Vertical Section Origin:

TVD Reference Datum:

TVD Reference Datum:

TVD Reference Elevation:

Seabed / Ground Elevation:

Magnetic Declination:

Total Gravity Field Strength:

Gravity Model:

Total Magnetic Field Strength:

Magnetic Dip Angle:

Declination Date:

North Reference:

Grid Convergence Used:

Total Corr Mag North > Grid

North:

Total Corr Mag North > Grid

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Total Corr Mag North > Grid

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Minimum Curvature / Lubinski 179.600 * (Grid North) 0.000 ft, 0.000 ft RKB = 221 3431.100 ft above MSL 3409.100 ft above MSL 6.305 * 998.4250mgn (9.80655 Based) GARM 47434.550 nT 59.650 * September 01, 2022 HDSM 2022 Grid North

Grid North 0.3921 °

North: Local Coord Referenced To: Well Head



30-025-50208

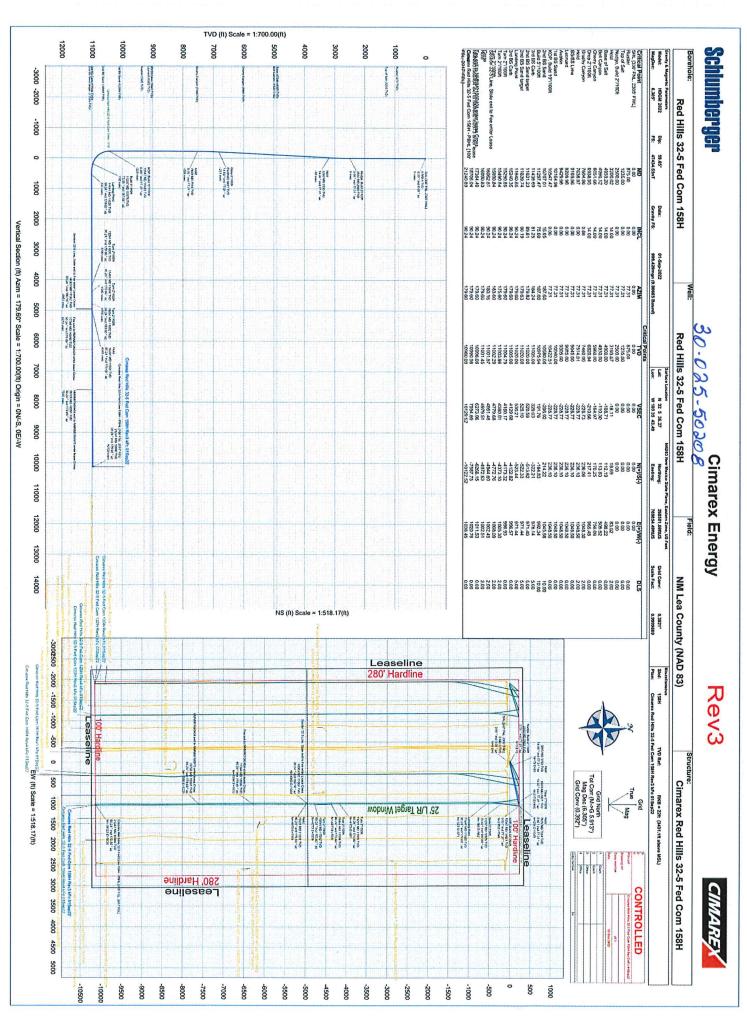
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Sept 2001	Comments		Incl (*)	Azim Grid									Longitude (E/W *)
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150.00	Top of Salt			77.31 77.31	1200.00 1235.00		0.00	0.00	0.00	398501.09 398501.09	769854.49 769854.49	N 32.093410 N 32.093410	
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February													W 103.592702
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February		6700.00	14.00		6589.09	-198.35							W 103.592473
700.00		6900.00	14.00	77.31	6783.14	-208.65	215.34	956.28	0.00	398716.42	770810.74	N 32.093983	
7100.00	Drop 2°/100ft												
7300.00 6.78 77.31 7175.83 -224.51 231.70 1029.96 2.00 39873.278 770893.41 N 32.094037 W 103.9520.00 7500.00 4.78 77.31 7275.32 -226.56 233.91 1038.78 2.00 39873.49 770893.44 N 32.094037 W 103.9520.00 7500.00 0.78 77.31 7475.04 -228.77 236.10 1048.50 0.00 39873.11 77090.26 N 32.094039 W 103.9520.00 7500.00 0.78 77.31 7475.04 -228.77 236.10 1048.50 0.00 39873.11 77090.26 N 32.094039 W 103.9520.00 77.00 0.00 77.31 7475.04 -228.77 236.10 1048.50 0.00 39873.18 77090.26 N 32.094039 W 103.9520.00 7500.00 0.00 77.31 7475.04 -228.77 236.10 1048.50 0.00 39873.18 77090.26 N 32.094039 W 103.9520.00 7500.00 0.00 77.31 7475.04 -228.77 236.10 1048.50 0.00 39873.18 77090.26 N 32.094039 W 103.9520.00 7500.00 0.00 77.31 7475.04 -228.77 236.10 1048.50 0.00 39873.18 77090.26 N 32.094039 W 103.9520.00 7500.00 0.00 77.31 7475.04 -228.77 236.10 1048.50 0.00 39873.18 77090.26 N 32.094039 W 103.9520.00 7500.00 0.00 77.31 7475.04 -228.77 236.10 1048.50 0.00 39873.18 77090.26 N 32.094039 W 103.9520.00 0.00 0.00 77.31 7475.04 -228.77 236.10 1048.50 0.00 39873.18 77090.26 N 32.094039 W 103.9520.00 0.00 0.00 77.31 7475.04 -228.77 236.10 1048.50 0.00 39873.18 77090.26 N 32.094039 W 103.9520.00 0.00 0.00 77.31 7475.04 -228.77 236.10 1048.50 0.00 39873.18 77090.26 N 32.094039 W 103.9520.00 0.00 0.00 77.31 8075.04 -228.77 236.10 1048.50 0.00 39873.18 77090.26 N 32.094039 W 103.9520.00 0.00 0.00 77.31 8075.04 -228.77 236.10 1048.50 0.00 39873.18 77090.26 N 32.094039 W 103.9520.00 0.00 0.00 77.31 8075.04 -228.77 236.10 1048.50 0.00 39873.18 77090.26 N 32.094039 W 103.9520.00 0.00 0.00 77.31 8075.04 -228.77 236.10 1048.50 0.00 39873.18 77090.26 N 32.094039 W 103.9520.00 0.00 0.00 77.31 8075.04 -228.77 236.10 1048.50 0.00 39873.18 77090.26 N 32.094039 W 103.9520.00 0.00 0.00 77.31 8075.04 -228.77 236.10 1048.50 0.00 39873.18 77090.26 N 32.094039 W 103.9520.00 0.00 0.00 77.31 8075.04 -228.77 236.10 1048.50 0.00 39873.18 77090.26 N 32.094039 W 103.9520.00 0.00 0.00 77.31 8075.04 -228.77 236.10 1048.50 0.00 39873.18 77090.26 N 32.094039 W 103.9520.00		7100.00	10.78	77.31	6978.22	-218.01	225.00	999.18	2.00	398726.08	770853.64	N 32.094009	W 103.592182
7400.00 4.78 77.31 7275.32 -226.65 233.91 1033.78 2.00 39873.49 770893.24 N 32.064033 W 103.9520.55						-221.63	228.73	1015.75	2.00	398729.81	770870.21	N 32.094019	W 103.592128
Profestion Pro		7400.00	4.78	77.31	7275.32	-226.65	233.91	1038.78	2.00	398734.99	770893.24	N 32.094033	W 103.592054
Brashy Carron 7694.96 0.68 77.31 7450.00 -228.73 236.06 1048.50 2.00 398737.18 770902.96 N 32.094039 W 103.59202. 1048.50 2.00					7375.10 7475.04	-228.06 -228.72	235.36				770899.67	N 32.094037	
7700.00 0.00 77.31 7975.04 -228.77 238.10 1048.50 0.00 398737.18 770902.96 N 32.094039 W103.59202. 7800.00 0.00 77.31 7775.04 -228.77 238.10 1048.50 0.00 398737.18 770902.96 N 32.094039 W103.59202. 8000.00 0.00 77.31 7975.04 -228.77 238.10 1048.50 0.00 398737.18 770902.96 N 32.094039 W103.59202. 8100.00 0.00 77.31 7975.04 -228.77 238.10 1048.50 0.00 398737.18 770902.96 N 32.094039 W103.59202. 8200.00 0.00 77.31 8075.04 -228.77 238.10 1048.50 0.00 398737.18 770902.96 N 32.094039 W103.59202. 8200.00 0.00 77.31 8075.04 -228.77 238.10 1048.50 0.00 398737.18 770902.96 N 32.094039 W103.59202. 8200.00 0.00 77.31 8075.04 -228.77 238.10 1048.50 0.00 398737.18 770902.96 N 32.094039 W103.59202. 8200.00 0.00 77.31 8075.04 -228.77 238.10 1048.50 0.00 398737.18 770902.96 N 32.094039 W103.59202. 8200.00 0.00 77.31 8075.04 -228.77 238.10 1048.50 0.00 398737.18 770902.96 N 32.094039 W103.59202. 8200.00 0.00 77.31 8075.04 -228.77 238.10 1048.50 0.00 398737.18 770902.96 N 32.094039 W103.59202. 8200.00 0.00 77.31 8075.04 -228.77 238.10 1048.50 0.00 398737.18 770902.96 N 32.094039 W103.59202. 8200.00 0.00 77.31 8075.04 -228.77 238.10 1048.50 0.00 398737.18 770902.96 N 32.094039 W103.59202. 8200.00 0.00 77.31 8075.04 -228.77 238.10 1048.50 0.00 398737.18 770902.96 N 32.094039 W103.59202. 8200.00 0.00 77.31 8075.04 -228.77 238.10 1048.50 0.00 398737.18 770902.96 N 32.094039 W103.59202. 8200.00 0.00 77.31 8075.04 -228.77 238.10 1048.50 0.00 398737.18 770902.96 N 32.094039 W103.59202. 8200.00 0.00 77.31 8075.04 -228.77 238.10 1048.50 0.00 398737.18 770902.96 N 32.094039 W103.59202. 8200.00 0.00 77.31 8075.04 -228.77 238.10 1048.50 0.00 398737.18 770902.96 N 32.094039 W103.59202. 8200.00 0.00 77.31 8075.04 -228.77 238.10 1048.50 0.00 398737.18 770902.96 N 32.094039 W103.59202. 8200.00 0.00 77.31 8075.04 -228.77 238.10 1048.50 0.00 398737.18 770902.96 N 32.094039 W103.59202. 8200.00 0.00 77.31 8075.04 -228.77 238.10 1048.50 0.00 398737.18 770902.96 N 32.094039 W103.59202. 8200.00 0.00 77.31 8075.04 -228.77 238.10 1048.50 0.00 398737.18 7	Brushy Canvon	7604.96	0.68		7480.00	-228.73	236.06	1048.30		398737.14	770902.76	N 32.094039	
PRODUCT PROD	fold												
8000 00		7800.00	0.00	77.31	7675.04	-228.77	236.10	1048.50	0.00	398737.18	770902.96	N 32.094039	W 103.592023
8100.00 0.00 77.31 7975.04 -228.77 236.10 1048.50 0.00 398737.18 770902.96 N 32.094039 W103.59202. 8200.00 0.00 77.31 8175.04 -228.77 236.10 1048.50 0.00 398737.18 770902.96 N 32.094039 W103.59202. 8200.00 0.00 77.31 8175.04 -228.77 236.10 1048.50 0.00 398737.18 770902.96 N 32.094039 W103.59202. 8200.00 0.00 77.31 8175.04 -228.77 236.10 1048.50 0.00 398737.18 770902.96 N 32.094039 W103.59202. 8200.00 0.00 77.31 8175.04 -228.77 236.10 1048.50 0.00 398737.18 770902.96 N 32.094039 W103.59202. 8200.00 0.00 77.31 8175.04 -228.77 236.10 1048.50 0.00 398737.18 770902.96 N 32.094039 W103.59202. 8200.00 0.00 77.31 8175.04 -228.77 236.10 1048.50 0.00 398737.18 770902.96 N 32.094039 W103.59202. 8200.00 0.00 77.31 8175.04 -228.77 236.10 1048.50 0.00 398737.18 770902.96 N 32.094039 W103.59202. 8200.00 0.00 77.31 8175.04 -228.77 236.10 1048.50 0.00 398737.18 770902.96 N 32.094039 W103.59202. 8200.00 0.00 77.31 8175.04 -228.77 236.10 1048.50 0.00 398737.18 770902.96 N 32.094039 W103.59202. 8200.00 0.00 77.31 8175.04 -228.77 236.10 1048.50 0.00 398737.18 770902.96 N 32.094039 W103.59202. 8200.00 0.00 77.31 8175.04 -228.77 236.10 1048.50 0.00 398737.18 770902.96 N 32.094039 W103.59202. 8200.00 0.00 77.31 8175.04 -228.77 236.10 1048.50 0.00 398737.18 770902.96 N 32.094039 W103.59202. 8200.00 0.00 77.31 8175.04 -228.77 236.10 1048.50 0.00 398737.18 770902.96 N 32.094039 W103.59202. 8200.00 0.00 77.31 9075.04 -228.77 236.10 1048.50 0.00 398737.18 770902.96 N 32.094039 W103.59202. 8200.00 0.00 77.31 9175.04 -228.77 236.10 1048.50 0.00 398737.18 770902.96 N 32.094039 W103.59202. 8200.00 0.00 77.31 9175.04 -228.77 236.10 1048.50 0.00 398737.18 770902.96 N 32.094039 W103.59202. 8200.00 0.00 77.31 9175.04 -228.77 236.10 1048.50 0.00 398737.18 770902.96 N 32.094039 W103.59202. 8200.00 0.00 77.31 9175.04 -228.77 236.10 1048.50 0.00 398737.18 770902.96 N 32.094039 W103.59202. 8200.00 0.00 77.31 9175.04 -228.77 236.10 1048.50 0.00 398737.18 770902.96 N 32.094039 W103.59202. 8200.00 0.00 77.31 9175.04 -228.77 236.10 1048.50 0.00 398737.18 7		7900.00	0.00						0.00				
8500.00 0.00 77.31 8175.04 -228.77 235.10 1048.50 0.00 39873.18 770902.96 N 32.094039 W103.59202. 8500.00 0.00 77.31 8375.04 -228.77 235.10 1048.50 0.00 39873.18 770902.96 N 32.094039 W103.59202. 8500.00 0.00 77.31 8375.04 -228.77 235.10 1048.50 0.00 39873.18 770902.96 N 32.094039 W103.59202. 8500.00 0.00 77.31 8575.04 -228.77 235.10 1048.50 0.00 39873.18 770902.96 N 32.094039 W103.59202. 8500.00 0.00 77.31 8575.04 -228.77 235.10 1048.50 0.00 39873.18 770902.96 N 32.094039 W103.59202. 8500.00 0.00 77.31 8575.04 -228.77 235.10 1048.50 0.00 39873.18 770902.96 N 32.094039 W103.59202. 8500.00 0.00 77.31 8575.04 -228.77 235.10 1048.50 0.00 39873.18 770902.96 N 32.094039 W103.59202. 8500.00 0.00 77.31 8575.04 -228.77 235.10 1048.50 0.00 39873.18 770902.96 N 32.094039 W103.59202. 8500.00 0.00 77.31 8575.04 -228.77 235.10 1048.50 0.00 39873.18 770902.96 N 32.094039 W103.59202. 8500.00 0.00 77.31 8575.04 -228.77 235.10 1048.50 0.00 39873.18 770902.96 N 32.094039 W103.59202. 8500.00 0.00 77.31 8575.04 -228.77 235.10 1048.50 0.00 39873.18 770902.96 N 32.094039 W103.59202. 8500.00 0.00 77.31 8575.04 -228.77 235.10 1048.50 0.00 39873.18 770902.96 N 32.094039 W103.59202. 8500.00 0.00 77.31 8575.04 -228.77 235.10 1048.50 0.00 39873.18 770902.96 N 32.094039 W103.59202. 8500.00 0.00 77.31 8575.04 -228.77 235.10 1048.50 0.00 39873.18 770902.96 N 32.094039 W103.59202. 8500.00 0.00 77.31 9575.04 -228.77 235.10 1048.50 0.00 39873.18 770902.96 N 32.094039 W103.59202. 8500.00 0.00 77.31 9575.04 -228.77 235.10 1048.50 0.00 39873.18 770902.96 N 32.094039 W103.59202. 8500.00 0.00 77.31 9575.04 -228.77 235.10 1048.50 0.00 39873.18 770902.96 N 32.094039 W103.59202. 8500.00 0.00 77.31 9575.04 -228.77 235.10 1048.50 0.00 39873.18 770902.96 N 32.094039 W103.59202. 8500.00 0.00 77.31 9575.04 -228.77 235.10 1048.50 0.00 39873.18 770902.96 N 32.094039 W103.59202. 8500.00 0.00 77.31 9575.04 -228.77 235.10 1048.50 0.00 39873.18 770902.96 N 32.094039 W103.59202. 8500.00 0.00 77.31 9575.04 -228.77 235.10 1048.50 0.00 39873.18 770902.96 N 32.094039				77.31	7975.04	-228.77	236.10	1048.50	0.00	398737.18	770902.96	N 32.094039	W 103.592023
## 100 0 0 0 77.31 8275.04 - 228.77 236.10 1048.50 0.00 398737.18 770902.96 N 32.094.039 W 103.59202. ## 100 0 0 0 0 0 77.31 8475.04 - 228.77 236.10 1048.50 0.00 398737.18 770902.96 N 32.094.039 W 103.59202. ## 100 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		8200.00			8075.04 8175.04			1048.50					
\$\ \begin{array}{c c c c c c c c c c c c c c c c c c c		8400.00	0.00	77.31	8275.04	-228.77	236.10	1048.50	0.00	398737.18	770902.96	N 32.094039	W 103.592023
870.00 0.00 77.31 875.04 -228.77 235.10 1048.50 0.00 39873.18 770902.96 N32.094039 W103.59202. 880.00 0.00 77.31 8775.04 -228.77 235.10 1048.50 0.00 39873.18 770902.96 N32.094039 W103.59202. 890.00 0.00 77.31 8775.04 -228.77 235.10 1048.50 0.00 39873.18 770902.96 N32.094039 W103.59202. 910.00 0.00 77.31 8975.04 -228.77 235.10 1048.50 0.00 39873.18 770902.96 N32.094039 W103.59202. 8785 Lime 9169.36 0.00 77.31 8975.04 -228.77 235.10 1048.50 0.00 39873.18 770902.96 N32.094039 W103.59202. 920.00 0.00 77.31 8975.04 -228.77 235.10 1048.50 0.00 39873.18 770902.96 N32.094039 W103.59202. 920.00 0.00 77.31 8975.04 -228.77 235.10 1048.50 0.00 39873.18 770902.96 N32.094039 W103.59202. 920.00 0.00 77.31 9175.04 -228.77 235.10 1048.50 0.00 39873.18 770902.96 N32.094039 W103.59202. 930.00 0.00 77.31 9175.04 -228.77 235.10 1048.50 0.00 39873.18 770902.96 N32.094039 W103.59202. 940.00 0.00 77.31 9175.04 -228.77 235.10 1048.50 0.00 39873.18 770902.96 N32.094039 W103.59202. 940.00 0.00 77.31 9175.04 -228.77 235.10 1048.50 0.00 39873.18 770902.96 N32.094039 W103.59202. 940.00 0.00 77.31 9175.04 -228.77 235.10 1048.50 0.00 39873.18 770902.96 N32.094039 W103.59202. 940.00 0.00 77.31 9375.04 -228.77 235.10 1048.50 0.00 39873.18 770902.96 N32.094039 W103.59202. 940.00 0.00 77.31 9375.04 -228.77 235.10 1048.50 0.00 39873.18 770902.96 N32.094039 W103.59202. 950.00 0.00 77.31 9375.04 -228.77 235.10 1048.50 0.00 39873.18 770902.96 N32.094039 W103.59202. 950.00 0.00 77.31 9475.04 -228.77 235.10 1048.50 0.00 39873.18 770902.96 N32.094039 W103.59202. 950.00 0.00 77.31 9475.04 -228.77 235.10 1048.50 0.00 39873.18 770902.96 N32.094039 W103.59202. 950.00 0.00 77.31 9475.04 -228.77 235.10 1048.50 0.00 39873.18 770902.96 N32.094039 W103.59202. 950.00 0.00 77.31 9475.04 -228.77 235.10 1048.50 0.00 39873.18 770902.96 N32.094039 W103.59202. 950.00 0.00 77.31 9475.04 -228.77 235.10 1048.50 0.00 39873.18 770902.96 N32.094039 W103.59202.										398737.18			
8600.00 0.00 77.31 875.04 -228.77 236.10 1048.50 0.00 398737.18 770902.96 N 32.094039 W103.59202. \$100.00 0.00 77.31 8975.04 -228.77 236.10 1048.50 0.00 398737.18 770902.96 N 32.094039 W103.59202. \$15.85 Lime 1969.96 0.00 77.31 8975.04 -228.77 236.10 1048.50 0.00 398737.18 770902.96 N 32.094039 W103.59202. \$200.00 0.00 77.31 9075.04 -228.77 236.10 1048.50 0.00 398737.18 770902.96 N 32.094039 W103.59202. \$200.00 0.00 77.31 9075.04 -228.77 236.10 1048.50 0.00 398737.18 770902.96 N 32.094039 W103.59202. \$200.00 0.00 77.31 9175.04 -228.77 236.10 1048.50 0.00 398737.18 770902.96 N 32.094039 W103.59202. \$200.00 0.00 77.31 9175.04 -228.77 236.10 1048.50 0.00 398737.18 770902.96 N 32.094039 W103.59202. \$200.00 0.00 77.31 9175.04 -228.77 236.10 1048.50 0.00 398737.18 770902.96 N 32.094039 W103.59202. \$200.00 0.00 77.31 9175.04 -228.77 236.10 1048.50 0.00 398737.18 770902.96 N 32.094039 W103.59202. \$200.00 0.00 77.31 9375.04 -228.77 236.10 1048.50 0.00 398737.18 770902.96 N 32.094039 W103.59202. \$200.00 0.00 77.31 9475.04 -228.77 236.10 1048.50 0.00 398737.18 770902.96 N 32.094039 W103.59202. \$200.00 0.00 77.31 9475.04 -228.77 236.10 1048.50 0.00 398737.18 770902.96 N 32.094039 W103.59202. \$200.00 0.00 77.31 9475.04 -228.77 236.10 1048.50 0.00 398737.18 770902.96 N 32.094039 W103.59202. \$200.00 0.00 77.31 9475.04 -228.77 236.10 1048.50 0.00 398737.18 770902.96 N 32.094039 W103.59202. \$200.00 0.00 77.31 9475.04 -228.77 236.10 1048.50 0.00 398737.18 770902.96 N 32.094039 W103.59202. \$200.00 0.00 77.31 9475.04 -228.77 236.10 1048.50 0.00 398737.18 770902.96 N 32.094039 W103.59202. \$200.00 0.00 77.31 9475.04 -228.77 236.10 1048.50 0.00 398737.18 770902.96 N 32.094039 W103.59202. \$200.00 0.00 77.31 9475.04 -228.77 236.10 1048.50 0.00 398737.18 770902.96 N 32.094039 W103.59202.		8700.00	0.00	77.31	8575.04	-228.77	236.10	1048.50	0.00	398737.18	770902.96	N 32.094039	W 103.592023
900.00 0.00 77.31 8975.04 -228.77 236.10 1048.50 0.00 398737.18 770902.96 N 32.094039 W103.59202. \$15.85 Lime 9169.96 0.00 77.31 9075.00 -228.77 236.10 1048.50 0.00 398737.18 770902.96 N 32.094039 W103.59202. \$15.85 Lime 9169.96 0.00 77.31 9075.00 -228.77 236.10 1048.50 0.00 398737.18 770902.96 N 32.094039 W103.59202. \$200.00 0.00 77.31 9075.00 -228.77 236.10 1048.50 0.00 398737.18 770902.96 N 32.094039 W103.59202. \$200.00 0.00 77.31 9085.00 -228.77 236.10 1048.50 0.00 398737.18 770902.96 N 32.094039 W103.59202. \$400.00 0.00 77.31 9085.00 -228.77 236.10 1048.50 0.00 398737.18 770902.96 N 32.094039 W103.59202. \$400.00 0.00 77.31 9075.00 -228.77 236.10 1048.50 0.00 398737.18 770902.96 N 32.094039 W103.59202. \$400.00 0.00 77.31 9075.00 -228.77 236.10 1048.50 0.00 398737.18 770902.96 N 32.094039 W103.59202. \$400.00 0.00 77.31 9075.00 -228.77 236.10 1048.50 0.00 398737.18 770902.96 N 32.094039 W103.59202. \$400.00 0.00 77.31 9075.00 -228.77 236.10 1048.50 0.00 398737.18 770902.96 N 32.094039 W103.59202. \$400.00 0.00 77.31 9075.00 -228.77 236.10 1048.50 0.00 398737.18 770902.96 N 32.094039 W103.59202. \$400.00 0.00 77.31 9075.00 -228.77 236.10 1048.50 0.00 398737.18 770902.96 N 32.094039 W103.59202. \$400.00 0.00 77.31 9075.00 -228.77 236.10 1048.50 0.00 398737.18 770902.96 N 32.094039 W103.59202. \$400.00 0.00 77.31 9075.00 -228.77 236.10 1048.50 0.00 398737.18 770902.96 N 32.094039 W103.59202. \$400.00 0.00 77.31 9075.00 -228.77 236.10 1048.50 0.00 398737.18 770902.96 N 32.094039 W103.59202. \$400.00 0.00 77.31 9075.00 -228.77 236.10 1048.50 0.00 398737.18 770902.96 N 32.094039 W103.59202.		8800.00	0.00	77.31	8675.04	-228.77	236.10	1048.50	0.00	398737.18		N 32.094039	W 103.592023
SAS Lime 9100.00 0.00 77.31 8975.04 -228.77 236.10 1048.50 0.00 398737.18 770902.96 N 32.094039 W103.99202. \$400.00 0.00 77.31 9075.00 -228.77 236.10 1048.50 0.00 398737.18 770902.96 N 32.094039 W103.99202. \$400.00 0.00 77.31 9075.04 -228.77 236.10 1048.50 0.00 398737.18 770902.96 N 32.094039 W103.99202. \$400.00 0.00 77.31 9175.04 -228.77 236.10 1048.50 0.00 398737.18 770902.96 N 32.094039 W103.99202. \$400.00 0.00 77.31 9175.04 -228.77 236.10 1048.50 0.00 398737.18 770902.96 N 32.094039 W103.99202. \$400.00 0.00 77.31 9175.04 -228.77 236.10 1048.50 0.00 398737.18 770902.96 N 32.094039 W103.99202. \$400.00 0.00 77.31 9375.04 -228.77 236.10 1048.50 0.00 398737.18 770902.96 N 32.094039 W103.99202. \$400.00 0.00 77.31 9375.04 -228.77 236.10 1048.50 0.00 398737.18 770902.96 N 32.094039 W103.99202. \$400.00 0.00 77.31 9475.04 -228.77 236.10 1048.50 0.00 398737.18 770902.96 N 32.094039 W103.99202. \$400.00 0.00 77.31 9475.04 -228.77 236.10 1048.50 0.00 398737.18 770902.96 N 32.094039 W103.99202. \$400.00 0.00 77.31 9475.04 -228.77 236.10 1048.50 0.00 398737.18 770902.96 N 32.094039 W103.99202. \$400.00 0.00 77.31 9475.04 -228.77 236.10 1048.50 0.00 398737.18 770902.96 N 32.094039 W103.99202. \$400.00 0.00 77.31 9475.04 -228.77 236.10 1048.50 0.00 398737.18 770902.96 N 32.094039 W103.99202. \$400.00 0.00 0.00 77.31 9475.04 -228.77 236.10 1048.50 0.00 398737.18 770902.96 N 32.094039 W103.99202. \$400.00 0.00 0.00 0.00 0.00 0.00 0.00 0.		9000.00	0.00	77.31	8875.04	-228.77	236.10	1048.50	0.00	398737.18	770902.96	N 32.094039	W 103.592023
9200.00 0.00 77.31 9075.04 -228.77 236.10 1048.50 0.00 398737.18 770902.96 N 32.094039 W103.99202.00 90.00 90.00 77.31 9075.04 -228.77 236.10 1048.50 0.00 398737.18 770902.96 N 32.094039 W103.99202.00 90.	C/DC Lim-	9100.00	0.00	77.31	8975.04	-228.77	236.10	1048.50				N 32.094039	W 103.592023
eonard 9299.95 0.00 77.31 9955.00 -228.77 236.10 1048.50 0.00 398737.18 770902.96 N 32.094039 W 103.59202. 9300.00 0.00 77.31 975.04 -228.77 236.10 1048.50 0.00 398737.18 770902.96 N 32.094039 W 103.59202. valon 9429.96 0.00 77.31 9275.04 -228.77 236.10 1048.50 0.00 398737.18 770902.96 N 32.094039 W 103.59202. 9500.00 0.00 77.31 9375.04 -228.77 236.10 1048.50 0.00 398737.18 770902.96 N 32.094039 W 103.59202. 9600.00 0.00 77.31 9475.04 -228.77 236.10 1048.50 0.00 398737.18 770902.96 N 32.094039 W 103.59202. 9700.00 0.00 77.31 9475.04 -228.77 236.10 1048.50 0.00 398737.18 770902.96 N 32.094039 W 103.59202. 9700.00 0.00 77.31 9475.04 -228.77 236.10 1048.50 0.00 398737.18 770902.96 N 32.094039 W 103.59202.		9200.00	0.00	77.31	9075.04	-228.77	236.10	1048.50	0.00	398737.18	770902.96	N 32.094039	W 103.592023
9400 0 0 0 77.31 9275 04 -228.77 236.10 1048.50 0.00 398737.18 770902.96 N 32.094039 W 103.59202. 9429 96 0.00 77.31 9375 04 -228.77 236.10 1048.50 0.00 398737.18 770902.96 N 32.094039 W 103.59202. 9500 0 0.00 77.31 9375 04 -228.77 236.10 1048.50 0.00 398737.18 770902.96 N 32.094039 W 103.59202. 9500 0 0.00 77.31 9475 04 -228.77 236.10 1048.50 0.00 398737.18 770902.96 N 32.094039 W 103.59202. 9700 0 0.00 77.31 9475 04 -228.77 236.10 1048.50 0.00 398737.18 770902.96 N 32.094039 W 103.59202.	eonard	9209.96					236.10	1048.50	0.00	398737.18	770902.96	N 32.094039	W 103.592023
Valor 94/29.96 0.00 77.31 9395.00 -228.77 235.10 104.85.0 0.00 398737.18 770902.96 N 32.094.039 W 103.592022 9500.00 0.00 77.31 9475.04 -228.77 235.10 1048.50 0.00 398737.18 770902.96 N 32.094.039 W 103.592022 9500.00 0.00 77.31 9475.04 -228.77 236.10 1048.50 0.00 398737.18 770902.96 N 32.094.039 W 103.592022 9700.00 0.00 77.31 9575.04 -228.77 236.10 1048.50 0.00 398737.18 770902.96 N 32.094.039 W 103.592022		9400.00	0.00	77.31	9275.04	-228.77	236.10	1048.50	0.00	398737.18	770902.96	N 32.094039	W 103.592023
9600.00 0.00 77.31 9475.04 -228.77 236.10 1048.50 0.00 398737.18 770902.96 N 32.094.039 W 103.59202. 9700.00 0.00 77.31 9575.04 -228.77 236.10 1048.50 0.00 398737.18 770902.96 N 32.094.039 W 103.59202.	ivalon	9429.96	0.00	77.31	9305.00	-228.77	236.10	1048.50	0.00	398737.18	770902.96	N 32.094039	W 103.592023
9700.00 0.00 77.31 9575.04 -228.77 236.10 1048.50 0.00 398737.18 770902.96 N 32.094039 W 103.59202		9600.00	0.00		9475.04	-228.77	236.10	1048.50			770902.96	N 32.094039	
					9575.04								

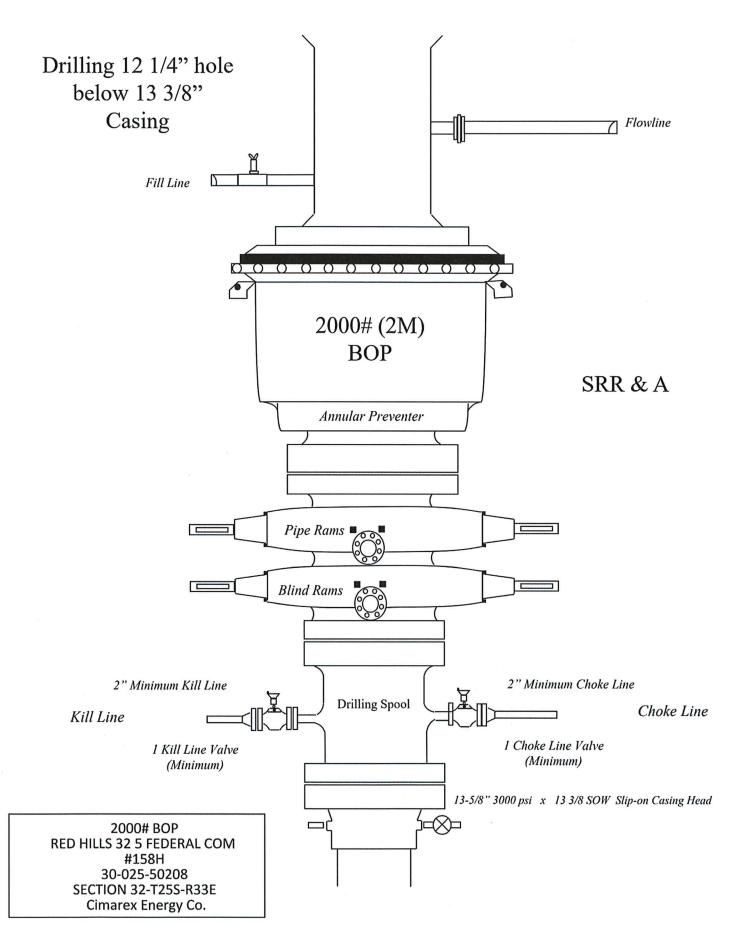
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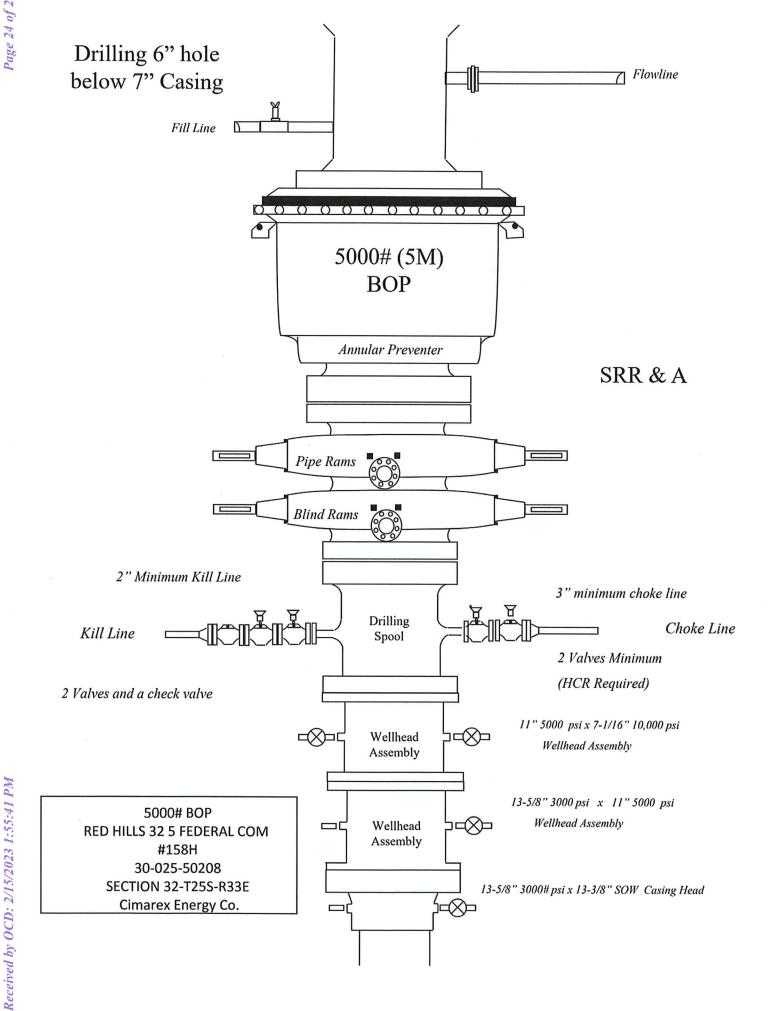
Comments	MD	Incl	Azim Grid	TVD	VSEC	NS	EW	DLS	Northing	Easting	Latitude Longitude
	9900.00 10000.00	0.00 0.00	77.31 77.31	9775.04 9875.04	-228.77 -228.77	236.10 236.10	1048.50 1048.50	0.00 0.00	398737.18	770902.96	(N/S*) (E/W*) N 32.094039 W 103.592023
	10100.00	0.00	77.31	9975.04	-228.77	236.10	1048.50	0.00	398737.18 398737.18	770902.96 770902.96	N 32.094039 W 103.592023 N 32.094039 W 103.592023
1st BS Sand	10164.96 10200.00	0.00	77.31 77.31	10040.00 10075.04	-228.77 -228.77	236.10 236.10	1048.50 1048.50	0.00	398737.18 398737.18	770902.96 770902.96	N 32.094039 W 103.592023 N 32.094039 W 103.592023
	10300.00 10400.00	0.00	77.31 77.31	10175.04 10275.04	-228.77 -228.77	236.10 236.10	1048.50 1048.50	0.00	398737.18 398737.18	770902.96 770902.96	N 32.094039 W 103.592023 N 32.094039 W 103.592023
KOP, Build	10500.00 10547.47	0.00	77.31 77.31	10375.04 10422.51	-228.77 -228.77	236.10 236.10	1048.50 1048.50	0.00	398737.18 398737.18	770902.96 770902.96	N 32.094039 W 103.592023 N 32.094039 W 103.592023
10°/100ft	10600.00	5.25	187.60	10474.97	-226.39	233.71	1048.18	10.00	398734.80	770902.64	N 32.094032 W 103.592024
2nd BS Sand	10700.00 10707.01	15.25 15.95	187.60 187.60	10573.25 10580.00	-208.79 -206.92	216.09 214.22	1045.83 1045.58	10.00 10.00	398717.18 398715.31	770900.29 770900.04	N 32.093984 W 103.592032 N 32.093979 W 103.592032
	10800.00 10900.00	25.25 35.25	187.60 187.60	10666.94 10753.22	-174.55 -124.72	181.82 131.95	1041.26 1034.60	10.00	398682.91 398633.03	770895.71 770889.06	N 32.093890 W 103.592047 N 32.093753 W 103.592070
	11000.00 11100.00	45.25 55.25	187.60 187.60	10829.44 10893.30	-60.82 15.23	67.98 -8.14	1026.07 1015.91	10.00 10.00	398569.07 398492.96	770880.52 770870.37	N 32.093577 W 103.592099 N 32.093368 W 103.592133
Build 5°/100ft	11200.00 11297.47	65.25 75.00	187.60 187.60	10942.85 10975.94	101.10 191.76	-94.09 -184.83	1004.44 992.34	10.00 10.00	398407.01 398316.26	770858.90 770846.79	N 32.093132 W 103.592172 N 32.092883 W 103.592213
Build 3 / Toolt	11300.00	75.11 79.53	187.54 185.14	10976.60	194.18 291.04	-187.26 -284.19	992.01 981.26	5.00	398313.84 398216.90	770846.47 770835.72	N 32.092876 W 103.592214 N 32.092610 W 103.592251
3rd BS Carb	11438.69 11500.00	81.25 83.97	184.24 182.82	11005.00	329.03 389.68	-322.21	978.14	5.00 5.00	398178.89	770832.60	N 32.092506 W 103.592262
	11600.00	88.42	180.53	11012.88 11019.52	489.37	-382.89 -482.60	974.40 971.49	5.00	398118.21 398018.51	770828.86 770825.95	N 32.092339 W 103.592276 N 32.092065 W 103.592287
2nd BS Sand target	11631.23	89.81	179.82	11020.00	520.59	-513.82	971.40	5.00	397987.28	770825.85	N 32.091979 W 103.592288
2nd BS Sand target	11639.74	90.19	179.63	11020.00	529.10	-522.33	971.44	5.00	397978.78	770825.89	N 32.091956 W 103.592288
Landing Point	11640.85 11700.00	90.24 90.24	179.60 179.60	11020.00 11019.75	530.21 589.36	-523.44 -582.59	971.44 971.86	5.00 0.00	397977.67 397918.52	770825.90 770826.31	N 32.091953 W 103.592288 N 32.091790 W 103.592288
	11800.00 11900.00	90.24 90.24	179.60 179.60	11019.33 11018.92	689.36 789.36	-682.59 -782.58	972.56 973.25	0.00	397818.53 397718.53	770827.01 770827.71	N 32.091515 W 103.592288 N 32.091240 W 103.592288
	12000.00 12100.00	90.24 90.24	179.60 179.60	11018.50 11018.08	889.36 989.36	-882.58 -982.58	973.95 974.65	0.00	397618.54 397518.55	770828.41 770829.11	N 32.090965 W 103.592288 N 32.090691 W 103.592288
	12200.00 12300.00	90.24 90.24	179.60 179.60	11017.67 11017.25	1089.36 1189.35	-1082.57 -1182.57	975.35 976.05	0.00	397418.55 397318.56	770829.81 770830.50	N 32.090416 W 103.592288 N 32.090141 W 103.592288
	12400.00 12500.00	90.24 90.24	179.60 179.60	11016.83 11016.42	1289.35 1389.35	-1282.57 -1382.56	976.74 977.44	0.00	397218.57 397118.57	770831.20 770831.90	N 32.089866 W 103.592288 N 32.089591 W 103.592288
	12600.00 12700.00	90.24 90.24	179.60 179.60	11016.00 11015.58	1489.35 1589.35	-1482.56 -1582.56	978.14 978.84	0.00	397018.58	770832.60 770833.30	N 32.089316 W 103.592288
	12800.00	90.24	179.60	11015.17	1689.35	-1682.55	979.54	0.00	396918.59 396818.59 396718.60	770833.99	N 32.088766 W 103.592288
	12900.00 13000.00	90.24 90.24	179.60 179.60	11014.75 11014.33	1789.35 1889.35	-1782.55 -1882.55	980.23 980.93	0.00	396618.61	770834.69 770835.39	N 32.088492 W 103.592288 N 32.088217 W 103.592288
	13100.00 13200.00	90.24 90.24	179.60 179.60	11013.92 11013.50	1989.35 2089.35	-1982.54 -2082.54	981.63 982.33	0.00	396518.61 396418.62	770836.09 770836.79	N 32.087942 W 103.592288 N 32.087667 W 103.592288
	13300.00 13400.00	90.24 90.24	179.60 179.60	11013.08 11012.67	2189.35 2289.35	-2182.54 -2282.53	983.03 983.73	0.00	396318.63 396218.63	770837.48 770838.18	N 32.087392 W 103.592288 N 32.087117 W 103.592288
	13500.00 13600.00	90.24 90.24	179.60 179.60	11012.25 11011.83	2389.34 2489.34	-2382.53 -2482.53	984.42 985.12	0.00	396118.64 396018.65	770838.88 770839.58	N 32.086842 W 103.592288 N 32.086567 W 103.592288
	13700.00	90.24 90.24	179.60 179.60	11011.42 11011.00	2589.34 2689.34	-2582.52 -2682.52	985.82 986.52	0.00	395918.65 395818.66	770840.28 770840.97	N 32.086293 W 103.592287 N 32.086018 W 103.592287
	13900.00 14000.00	90.24 90.24	179.60 179.60	11010.58 11010.17	2789.34 2889.34	-2782.52 -2882.51	987.22 987.91	0.00	395718.67 395618.67	770841.67 770842.37	N 32.085743 W 103.592287 N 32.085468 W 103.592287
	14100.00 14200.00	90.24 90.24	179.60	11009.75 11009.33	2989.34 3089.34	-2982.51 -3082.51	988.61	0.00	395518.68	770843.07	N 32.085193 W 103.592287
	14300.00	90.24	179.60 179.60	11008.92	3189.34	-3182.50	989.31 990.01	0.00	395418.69 395318.69	770843.77 770844.47	N 32.084643 W 103.592287
	14400.00 14500.00	90.24 90.24	179.60 179.60	11008.50 11008.08	3289.34 3389.34	-3282.50 -3382.50	990.71 991.40	0.00	395218.70 395118.71	770845.16 770845.86	N 32.084369 W 103.592287 N 32.084094 W 103.592287
	14600.00 14700.00	90.24 90.24	179.60 179.60	11007.67 11007.25	3489.33 3589.33	-3482.49 -3582.49	992.10 992.80	0.00	395018.71 394918.72	770846.56 770847.26	N 32.083819 W 103.592287 N 32.083544 W 103.592287
	14800.00 14900.00	90.24 90.24	179.60 179.60	11006.83 11006.42	3689.33 3789.33	-3682.49 -3782.48	993.50 994.20	0.00	394818.73 394718.73	770847.96 770848.65	N 32.083269 W 103.592287 N 32.082994 W 103.592287
	15000.00 15100.00	90.24 90.24	179.60 179.60	11006.00 11005.58	3889.33 3989.33	-3882.48 -3982.48	994.90 995.59	0.00	394618.74 394518.74	770849.35 770850.05	N 32.082719 W 103.592287 N 32.082444 W 103.592287
3rd BS Carb	15200.00 15240.35	90.24 90.24	179.60 179.60	11005.17 11005.00	4089.33 4129.68	-4082.47 -4122.82	996.29 996.57	0.00	394418.75 394378.40	770850.75 770851.03	N 32.082170 W 103.592287 N 32.082059 W 103.592287
Turn 2º/100ft	15290.85 15300.00	90.24 90.24	179.60 179.42	11004.79 11004.75	4180.17 4189.33	-4173.32 -4182.47	996.93 997.00	0.00 2.00	394327.91 394318.76	770851.38 770851.46	N 32.081920 W 103.592287 N 32.081895 W 103.592287
Turn 2°/100ft	15490.84	90.24 90.24	177.42 175.60	11004.33 11003.96	4289.30 4380.01	-4282.43 -4373.10	999.77 1005.30	2.00	394218.81 394128.14	770854.22 770859.76	N 32.081620 W 103.592280 N 32.081371 W 103.592264
Tull 2 / Took	15500.00 15600.00	90.24 90.24	175.78 177.78	11003.92 11003.50	4389.14 4489.02	-4382.23 -4482.06	1005.99 1011.60	2.00 2.00	394119.01 394019.17	770860.44 770866.05	N 32.081371 W 103.592262 N 32.081071 W 103.592262 N 32.081071 W 103.592246
	15700.00	90.24	179.78	11003.08	4589.00 4588.97	-4582.03	1013.72	2.00	393919.21	770868.18	N 32.080796 W 103.592242
Turn 2°/100ft	15800.00 15890.84	90.24 90.24	181.78 183.60	11002.67 11002.29	4779.68	-4682.02 -4772.76	1012.35 1008.09	2.00 2.00	393819.23 393728.49	770866.81 770862.55	N 32.080521 W 103.592248 N 32.080272 W 103.592264
	15900.00 16000.00	90.24 90.24	183.42 181.42	11002.25 11001.83	4788.81 4888.69	-4781.90 -4881.80	1007.53 1003.31	2.00 2.00	393719.35 393619.45	770861.99 770857.77	N 32.080247 W 103.592266 N 32.079972 W 103.592282
Section 32-5 Line, State exit	16062.81	90.24	180.16	11001.57	4951.48	-4944.60	1002.45	2.00	393556.65	770856.90	N 32.079800 W 103.592286
to Fee enter Lease Cross	70002.07	30.27	100.10	77007.07	4301.40		1002.45	2.00	535550.05	770030.30	17 32.073000 17 703.332200
Hold	16090.83 16100.00	90.24 90.24	179.60 179.60	11001.45 11001.42	4979.51 4988.67	-4972.63 -4981.79	1002.51 1002.57	2.00 0.00	393528.63 393519.46	770856.96 770857.03	N 32.079723 W 103.592287 N 32.079698 W 103.592287
	16200.00 16300.00	90.24 90.24	179.60 179.60	11001.00 11000.58	5088.67 5188.67	-5081.79 -5181.79	1003.27 1003.97	0.00	393419.47 393319.47	770857.72 770858.42	N 32.079423 W 103.592287 N 32.079148 W 103.592287
	16400.00 16500.00	90.24 90.24	179.60 179.60	11000.17 10999.75	5288.67 5388.67	-5281.78 -5381.78	1004.66 1005.36	0.00	393219.48 393119.49	770859.12 770859.82	N 32.078873 W 103.592287 N 32.078598 W 103.592286
	16600.00	90.24 90.24	179.60 179.60	10999.33 10998.92	5488.67 5588.67	-5481.78 -5581.77	1006.06 1006.76	0.00	393019.49 392919.50	770860.52 770861.21	N 32.078323 W 103.592286 N 32.078048 W 103.592286
	16800.00 16900.00	90.24 90.24	179.60 179.60	10998.50 10998.08	5688.67 5788.67	-5681.77 -5781.77	1007.46 1008.15	0.00	392819.51 392719.51	770861.91 770862.61	N 32.077773 W 103.592286 N 32.077499 W 103.592286
	17000.00	90.24	179.60	10997,67	5888.66	-5881.76	1008.85	0.00	392619.52	770863.31	N 32.077224 W 103.592286
	17100.00 17200.00	90.24 90.24	179.60 179.60	10997.25 10996.83	5988.66 6088.66	-5981.76 -6081.76	1009.55 1010.25	0.00	392519.53 392419.53	770864.01 770864.70	N 32.076949 W 103.592286 N 32.076674 W 103.592286
Fee exit to	17300.00	90.24	179.60	10996.42	6188.66	-6181.75	1010.95	0.00	392319.54	770865.40	N 32.076399 W 103.592286
NMNM0106040 4 enter lease	17384.40	90.24	179.60	10996.06	6273.06	-6266.15	1011.53	0.00	392235.15	770865.99	N 32.076167 W 103.592286
Cross	17400.00	90.24	179.60	10996.00	6288.66	-6281.75	1011.64	0.00	392219.55	770866.10	N 32.076124 W 103.592286
	17500.00 17600.00	90.24 90.24	179.60 179.60	10995.58 10995.17	6388.66 6488.66	-6381.75 -6481.74	1012.34 1013.04	0.00	392119.55 392019.56	770866.80 770867.50	N 32.075849 W 103.592286 N 32.075575 W 103.592286
	17700.00 17800.00	90.24 90.24	179.60 179.60	10994.75	6588.66 6688.66	-6581.74 -6681.74	1013.74 1014.43	0.00	391919.57 391819.57	770868.19 770868.89	N 32.075300 W 103.592286 N 32.075025 W 103.592286
	17900.00 18000.00	90.24 90.24	179.60 179.60	10993.92 10993.50	6788.66 6888.66	-6781.73 -6881.73	1015.13 1015.83	0.00	391719.58 391619.59	770869.59 770870.29	N 32.074750 W 103.592286 N 32.074475 W 103.592286
	18100.00 18200.00	90.24	179.60	10993.08 10992.67	6988.65 7088.65	-6981.73	1016.53 1017.23	0.00	391519.59	770870.98	N 32.074200 W 103.592286
	18300.00	90.24 90.24	179.60 179.60	10992.87 10992.25 10991.83	7188.65	-7081.72 -7181.72 -7281.72	1017.92	0.00	391419.60 391319.61	770871.68 770872.38	N 32.073650 W 103.592286
	18400.00 18500.00	90.24 90.24	179.60 179.60	10991.42	7288.65 7388.65	-7381.71	1018.62 1019.32	0.00	391219.61 391119.62	770873.08 770873.78	N 32.073376 W 103.592286 N 32.073101 W 103.592286
	18600.00 18700.00	90.24 90.24	179.60 179.60	10991.00 10990.58	7488.65 7588.65	-7481.71 -7581.71	1020.02 1020.72	0.00	391019.63 390919.63	770874.47 770875.17	N 32.072826 W 103.592286 N 32.072551 W 103.592286
NMNM0106040 4 exit to											
NMNM0160973 enter lease Cross	18706.04 18800.00	90.24	179.60	10990.56	7594.69 7688.65	-7587.75 -7681.70	1020.76	0.00	390913.59 390819.64	770875.21 770875.87	N 32.072534 W 103.592286 N 32.072276 W 103.592286
	18900.00 19000.00	90.24	179.60	10989.75	7788.65	-7781.70	1022.11	0.00	390719.65	770876.57	N 32.072001 W 103.592286
	19100.00	90.24 90.24	179.60 179.60	10989.33 10988.92	7888.65 7988.65	-7881.70 -7981.70	1022.81 1023.51	0.00	390619.65 390519.66	770877.27 770877.96	N 32.071726 W 103.592286 N 32.071451 W 103.592286
	19200.00 19300.00	90.24 90.24	179.60 179.60	10988.50 10988.09	8088.65 8188.64	-8081.69 -8181.69	1024.21 1024.90	0.00	390419.67 390319.67	770878.66 770879.36	N 32.071177 W 103.592286 N 32.070902 W 103.592285
	19400.00 19500.00	90.24 90.24	179.60 179.60	10987.67 10987.25	8288.64 8388.64	-8281.69 -8381.68	1025.60 1026.30	0.00	390219.68 390119.69	770880.06 770880.76	N 32.070627 W 103.592285 N 32.070352 W 103.592285
	19600.00 19700.00	90.24 90.24	179.60 179.60	10986.84 10986.42	8488.64 8588.64	-8481.68 -8581.68	1027.00 1027.70	0.00	390019.69 389919.70	770881.45 770882.15	N 32.070077 W 103.592285 N 32.069802 W 103.592285
	19800.00 19900.00	90.24 90.24	179.60 179.60	10986.00 10985.59	8688.64 8788.64	-8681.67 -8781.67	1028.39 1029.09	0.00	389819.71 389719.71	770882.85 770883.55	N 32.069527 W 103.592285 N 32.069253 W 103.592285
	20000.00 20100.00	90.24 90.24	179.60 179.60	10985.17 10984.75	8888.64 8988.64	-8881.67 -8981.66	1029.79 1030.49	0.00	389619.72 389519.73	770884.25 770884.94	N 32.068978 W 103.592285 N 32.068703 W 103.592285
	20200.00 20300.00	90.24 90.24 90.24	179.60 179.60	10984.34 10983.92	9088.64 9188.64	-9081.66 -9181.66	1030.49 1031.19 1031.88	0.00	389419.73 389319.74	770885.64 770886.34	N 32.068428 W 103.592285 N 32.068153 W 103.592285
	20400.00	90.24	179.60	10983.50	9288.63	-9281.65	1032.58	0.00	389219.75	770887.04	N 32.067878 W 103.592285
	20500.00 20600.00	90.24 90.24	179.60 179.60	10983.09 10982.67	9388.63 9488.63	-9381.65 -9481.65	1033.28 1033.98	0.00	389119.75 389019.76	770887.73 770888.43	N 32.067603 W 103.592285 N 32.067328 W 103.592285
	20700.00 20800.00	90.24 90.24	179.60 179.60	10982.25 10981.84	9588.63 9688.63	-9581.64 -9681.64	1034.67 1035.37	0.00	388919.76 388819.77	770889.13 770889.83	N 32.067054 W 103.592285 N 32.066779 W 103.592285
	20900.00 21000.00	90.24 90.24	179.60 179.60	10981.42 10981.00	9788.63 9888.63	-9781.64 -9881.63	1036.07 1036.77	0.00	388719.78 388619.78	770890.53 770891.22	N 32.066504 W 103.592285 N 32.066229 W 103.592285
	21100.00 21200.00	90.24	179.60 179.60	10980.59 10980.17	9988.63 10088.63	-9981.63 -10081.63	1037.47 1038.16	0.00	388519.79 388419.80	770891.92 770892.62	N 32.065954 W 103.592285 N 32.065679 W 103.592285

Comments	MD (ft)	Incl (*)	Azim Grid (*)	TVD (ft)	VSEC (ft)	NS (ft)	(ft)	DLS ('/100ft)	Northing (ftUS)	Easting (f(US)	Latitude (N/S *)	Longitude (E/W*)
Cimarex Red Hills 32-5 Fed Com 158H - PBHL [100' FSL, 2017' FEL]	21240.89	90.24	179.60	10980.00	10129.52	-10122.52	1038.45	0.00	388378.91	770892.91	N 32.065567	W 103.592285
Survey Type:	Def	Plan										
Survey Error Model	: ISC	WSA Rev 3 *** 3	-D 95.000% Confid	ence 2.7955 sigma	1							

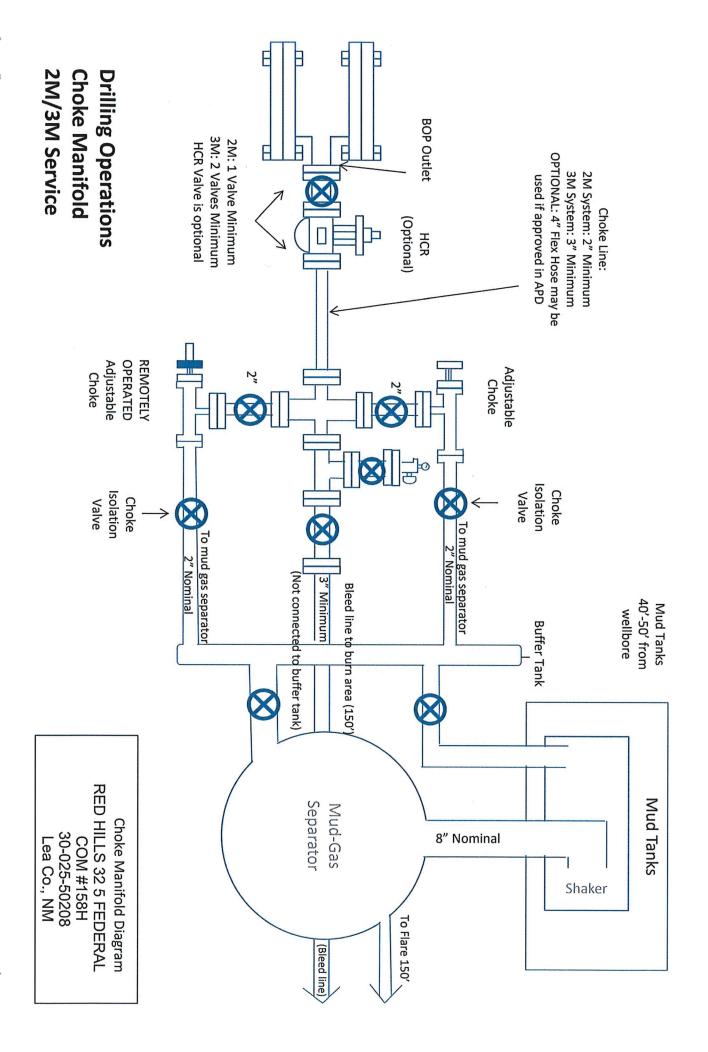
Survey Program:									
Description	Part	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size (in)	Casing Diameter (in)	Expected Max Inclination (deg)	Survey Tool Type	Borehole / Survey
	1	0.000	22.000	1/100.000	17.500	13.375		A001Mb_MWD-Depth Only	Red Hills 32-5 Fed Corn 158H / Cimarex Red Hills 32-5 Fed Corn
	1	22.000	21240.891	1/100.000	17.500	13.375		A001Mb_MWD	Red Hills 32-5 Fed Com 158H / Cimarex Red Hills 32-5 Fed Com



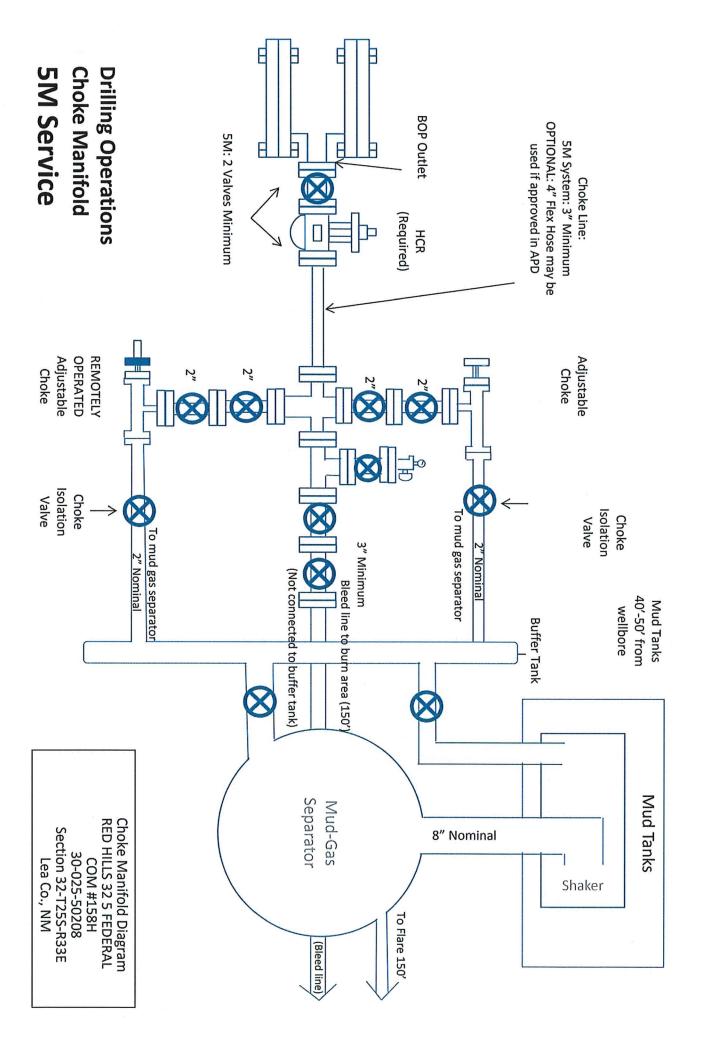




CIMAREX ENERGY COMPANY



CIMAREX ENERGY COMPANY

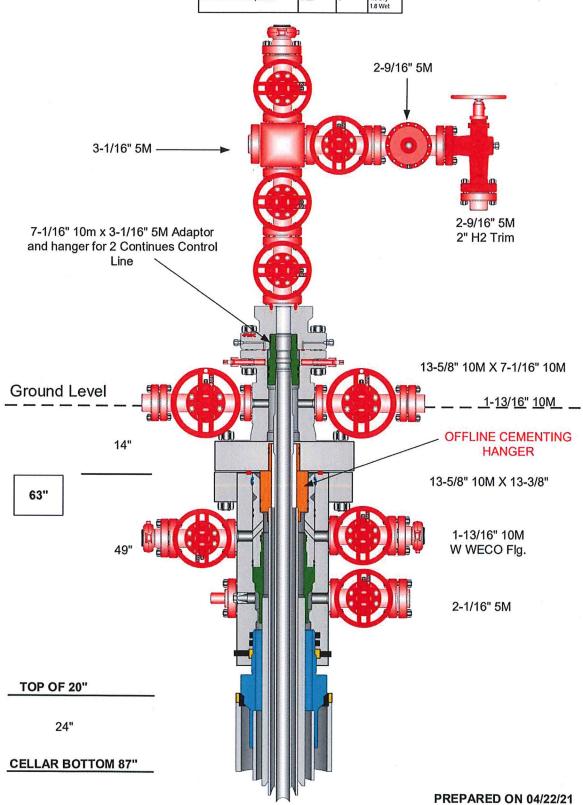




Hole Size	Casing Depth From	Casing Depth To	Setting Depth TVD	Casing Size	Weight (lb/ft)	Grade	Conn.	SF Collapse	SF Burst	SF Tension
17 1/2	0	935	935	13-3/8*	48.00	H-40	ST&C	1.83	4.27	7.17
12 1/4	0	4980	4980	9-5/8"	40.00	HCK-55	LT&C	1.43	1,48	2.82
8 3/4	0	10547	10547	7*	29.00	L-80	LT&C	1,42	1.65	1.84
8 3/4	10547	11297	10975	7*	29.00	P-110	BT&C	1.66	2.18	74.85
6	9547	21240	10980	4-1/2"	11.60	P-110	вт&с	1,48	2.08	22.08
					BLM	Minimum	Safety Factor	1.125	1	1.6 Dry 1.8 Wet

CACTUS FOR SERVICE WEARBUSHING IN CASING HEAD & CASING SPOOL

RED HILLS 32 5 FEDERAL COM #158H 30-025-50208 Section 32-T25S-R33E Lea Co., NM



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

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**

CONDITIONS

Action 186694

CONDITIONS

Operator:	OGRID:
CIMAREX ENERGY CO.	215099
600 N. Marienfeld Street	Action Number:
Midland, TX 79701	186694
	Action Type:
	[C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By		Condition Date
pkautz	None	2/15/2023