Form 3160-5 (June 2019)

# UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVEI	)
OMB No. 1004-013	7
Expires: October 31, 20	02

5.	Lease	Serial	No

DUKE	AU OF LAND MANAGEMENT			
Do not use this fo	OTICES AND REPORTS ON Worm for proposals to drill or to see Form 3160-3 (APD) for suc	re-enter an	6. If Indian, Allottee o	or Tribe Name
	·		7 If Unit of CA/Agre	ement, Name and/or No.
	RIPLICATE - Other instructions on pag	e 2	- Trome of Orlyrigion	ement, rame and/or ro.
1. Type of Well  Oil Well  Gas We	ell Other		8. Well Name and No.	
2. Name of Operator			9. API Well No.	
2- 4.1	21. Dl N.	(:	10. Field and Bool or	Evploratory Area
3a. Address	3b. Phone No.	(include area code)	10. Field and Pool or	exploratory Area
4. Location of Well (Footage, Sec., T.,R.,	M., or Survey Description)		11. Country or Parish,	State
12. CHEC	K THE APPROPRIATE BOX(ES) TO INI	DICATE NATURE OF	NOTICE, REPORT OR OTH	HER DATA
TYPE OF SUBMISSION		ТҮРЕ О	F ACTION	
Notice of Intent	Acidize Deep	en	Production (Start/Resume)	Water Shut-Off
	Alter Casing Hydr	aulic Fracturing	Reclamation	Well Integrity
Subsequent Report		Construction	Recomplete	Other
		and Abandon	Temporarily Abandon	
Final Abandonment Notice	Convert to Injection Plug eration: Clearly state all pertinent details, i		Water Disposal	
completed. Final Abandonment Noticis ready for final inspection.)	is. If the operation results in a multiple conces must be filed only after all requirement			
14. I hereby certify that the foregoing is t	rue and correct. Name (Printed/Typed)	Title		
Signature Signature	18	Date		
	THE SPACE FOR FEDI	ERAL OR STATE	OFICE USE	
Approved by				
		Title		Date
	ed. Approval of this notice does not warran uitable title to those rights in the subject le uct operations thereon.	t or	,	
	U.S.C Section 1212, make it a crime for arnts or representations as to any matter with		d willfully to make to any de	epartment or agency of the United States

(Instructions on page 2)

#### **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**

surface casing to harden before skidding the rig.

Drill Plan and updated multibowl, BOPs, and choke diagrams are attached. \*Changes reflected on attached C-102.

#### **Location of Well**

0. SHL: NWNW / 330 FNL / 430 FWL / TWSP: 25S / RANGE: 33E / SECTION: 32 / LAT: 32.093413 / LONG: -103.601467 ( TVD: 0 feet, MD: 0 feet ) PPP: NWNW / 5275 FSL / 443 FWL / TWSP: 25S / RANGE: 33E / SECTION: 5 / LAT: 32.079797 / LONG: -103.601433 ( TVD: 10900 feet, MD: 15763 feet ) PPP: NWSW / 3951 FSL / 443 FWL / TWSP: 25S / RANGE: 33E / SECTION: 5 / LAT: 32.076161 / LONG: -103.601433 ( TVD: 10900 feet, MD: 15763 feet ) PPP: NWSW / 2629 FSL / 442 FWL / TWSP: 25S / RANGE: 33E / SECTION: 5 / LAT: 32.072525 / LONG: -103.601431 ( TVD: 10900 feet, MD: 18408 feet ) BHL: SWSW / 100 FSL / 1100 FWL / TWSP: 25S / RANGE: 33E / SECTION: 5 / LAT: 32.066205 / LONG: -103.601431 ( TVD: 11365 feet, MD: 20709 feet )

# PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

**OPERATOR'S NAME:** | Cimarex

LEASE NO.: | NMNM106040

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

**COUNTY:** Lea County, New Mexico

**WELL NAME & NO.:** Red Hills 32-5 Fed Com 128H

**SURFACE HOLE FOOTAGE:** 330'/N & 430'/W **BOTTOM HOLE FOOTAGE** 100'/S & 1100'/W

COA

H2S	• Yes	O No	
Potash	None	Secretary	© R-111-P
Cave/Karst Potential	• Low	Medium	C High
Cave/Karst Potential	Critical		
Variance	O None	• Flex Hose	Other
Wellhead	Conventional	<ul><li>Multibowl</li></ul>	C Both
Other	☐ 4 String Area	☐ Capitan Reef	□WIPP
Other	Fluid Filled	☐ Cement Squeeze	☐ Pilot Hole
Special Requirements	☐ Water Disposal	<b>☑</b> 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 984 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.
- 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.

# 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
- 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 2<sup>nd</sup> 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

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720

District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720 District III 1000 Rio Brazos Road, Aztec, NM 87410

Phone: (505) 334-6178 Fax: (505) 334-6170 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

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

Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

■ AMENDED REPORT

County

# WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-025-50207	97903 WC-025 G-08 S253235G;LWR BONE SPRING					
<sup>4</sup> Property Code		Property Name 6 Well Number LLS 32-5 FED COM 128H				
<sup>7</sup> OGRID No. 215099		perator Name EX ENERGY CO.	<sup>9</sup> Elevation 3396.2'			

# Surface Location

D	32	258	33E		330	NORTH	430	WEST	LEA		
Day William in Indian and Control											
"Bottom Hole Location If Different From Surface											

North/South line

Feet from the

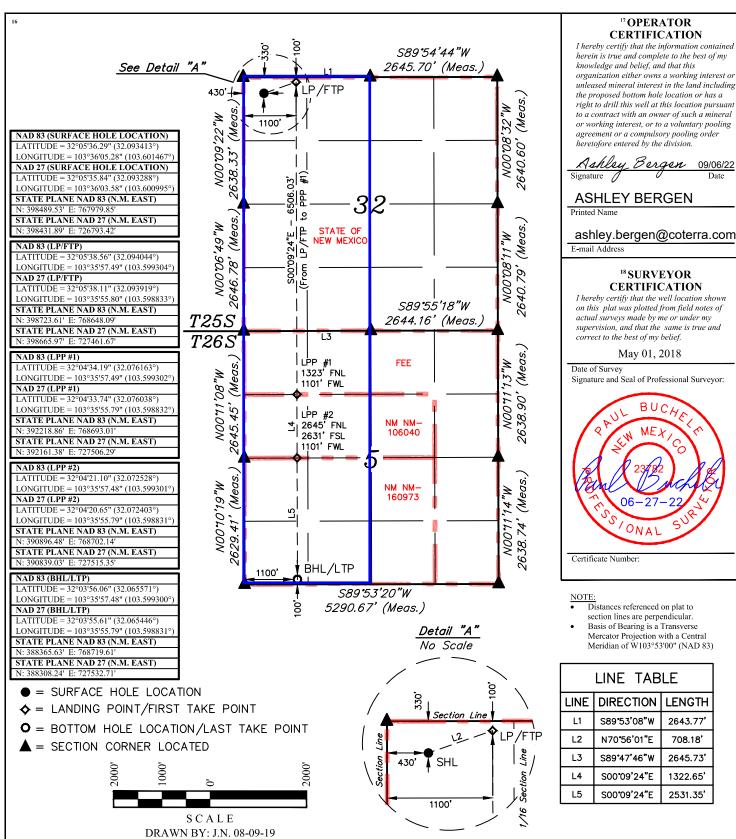
East/West line

M 5 26S	33E	100	SOUTH	1100	WEST	LEA
<sup>2</sup> Dedicated Acres 640	14 Consolidation Code	15 Order No.				

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.

Lot Idn

Township Range



T.L.L.

(BHL, LEASE DATA & TAKE POINT CHANGES)

06-27-22

**REV: 02** 

#### Schlumberger

# Cimarex Red Hills 32-5 Fed Com 128H Rev4 kFc 01Sep22 Proposal **Geodetic Report**



(Def Plan)

Report Date: Client: Field: Structure / Slot:

NM Lea County (NAD 83)

Red Hills 32-5 Fed Com 128H Well:

Borehole: UWI / API#: Unknown / Unknown Survey Name: Cimarex Red Hills 32-5 Fed Com 128H Rev4 kFc 01Sep22

Survey Date: Tort / AHD / DDI / ERD Ratio:

Coordinate Reference System: Location Lat / Long: Location Grid N/E Y/X:

CRS Grid Convergence Angle: Grid Scale Factor: Version / Patch:

September 02, 2022 - 12:46 PM Cimarex Energy

Cimarex Red Hills 32-5 Fed Com 128H / 128H

Red Hills 32-5 Fed Com 128H

September 01, 2022 112.090 ° / 11149.971 ft / 6.374 / 0.979

NAD83 New Mexico State Plane, Eastern Zone, US Feet N 32° 5' 36.28674", W 103° 36' 5.27970" N 398489.530 ftUS, E 767979.850 ftUS

0.3889° 0.99996792 2.10.832.2

Survey / DLS Computation: Vertical Section Azimuth: 179.600 ° (Grid North) 0.000 ft, 0.000 ft Vertical Section Origin: RKB = 22ft TVD Reference Datum: TVD Reference Elevation: 3418.200 ft above MSL Seabed / Ground Elevation: 3396.200 ft above MSL Magnetic Declination:

Total Gravity Field Strength: 998.4291mgn (9.80665 Based) Gravity Model: GARM

Total Magnetic Field Strength: Magnetic Dip Angle: Declination Date: Magnetic Declination Model: North Reference: Grid Convergence Used: Total Corr Mag North->Grid

North:

Local Coord Referenced To: Well Head

Minimum Curvature / Lubinski 6.309°

47436,700 nT 59.650° September 01, 2022 HDGM 2022 Grid North 0.3889° 5.9204°

. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S °)	Longitude (E/W°)
10000   0.00   77.64   200.00   0.0		0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	398489.53	767979.85	N 32.093413	W 103.601467
200.00													W 103.601467
Map													W 103.601467
SOUTH   SOUT													
Part													
Rester													W 103.601467
Regulary   800.00													W 103.601467
90.00													W 103.601467
TO 0 Salt   100,000	Rustler												
Top of Sale   100.00													
Top of Self													
1930.00   0.00   72.64   1930.00   0.00   0.00   0.00   0.00   384849.53   778778.85   N3.208311   W10.30814   1940.00   194	Top of Salt												W 103.601467
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1000.00													W 103.601467
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Page		2000.00	0.00		2000.00	0.00	0.00	0.00	0.00	398489.53		N 32.093413	W 103.601467
Margin Build   2800.00													W 103.601467
Nudge, Bulled 2500.00													W 103.601467
No.													
2710.00  2800.00  200  72.64  2800.00  400  72.64  2808.00  400  72.64  2808.00  800  72.64  2808.00  800  72.64  2808.00  800  800  72.64  2808.00  800  800  72.64  2808.00  800  800  72.64  2808.00  800  800  72.64  2808.00  800  800  72.64  2808.00  800  800  800  800  72.64  2808.00  800  800  72.64  2808.00  800  800  72.64  2808.00  800  800  800  800  72.64  2808.00  800  800  72.64  2808.00  800  800  800  800  72.64  2808.00  800  800  72.64  2808.00  800  72.64  2808.00  800  72.64  2808.00  800  72.64  2808.00													
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Page			4.00										W 103.601445
Held 3000.00 1 0.00 72.64 2997.47 -12.69 12.88 41.54 2.00 38680.251 7680.21.39 N 32.093468 W 103.6012		2800.00	6.00	72.64	2799.45		4.68		2.00		767994.83		W 103.601418
Hold   9000   10 00   72.64   2997.49   -12.69   12.98   41.54   2.00   398602.51   768021.39   N 32.09346   V 103.6012   3000.00   10 00   72.64   3995.95   -17.76   18.16   58.12   0.00   398612.87   76809.54   N 32.093476   V 103.6012   3000.00   10 00   72.64   3392.91   -27.88   28.52   33.70   107.44   0.00   398612.87   76809.54   N 32.093476   V 103.6012   3800.00   10 00   72.64   3392.91   -27.88   28.52   33.70   107.44   0.00   398623.23   768097.69   N 32.093518   V 103.6012   3800.00   10 00   72.64   3392.91   -37.88   -38.01   38.88   -34.00   -3.00   386533.91   768097.69   N 32.093518   V 103.6012   -3.00													W 103.601380
3100.00											768021.39		W 103.601332
\$2,000	Hold												
3300.00 10.00 72.64 33919 32.95 33.70 107.84 0.00 38618.05 78607.11 N3.2093490 W103.6011 3600.00 10.00 72.64 3369.37 38.07 107.84 0.00 38623.23 786087.69 78607.12 N3.2093540 W103.6011 3600.00 10.00 72.64 3589.85 -43.00 44.00 140.99 0.00 38653.25 17 786187.04 N3.2093541 W103.6010 3800.00 10.00 72.64 3588.35 -43.00 44.00 140.99 0.00 38653.87 786187.04 N3.2093541 W103.6010 3800.00 10.00 72.64 3588.35 -48.14 49.24 177.14 0.00 38653.87 786187.04 N3.2093541 W103.6010 3800.00 10.00 72.64 3868.35 -48.14 49.24 177.14 0.00 38653.87 786187.34 N3.2093545 W103.6010 3800.00 10.00 72.64 3862.27 63.33 04.78 207.29 0.00 38654.91 786187.39 N3.2093557 W103.6000 400.00 10.00 72.64 3862.27 63.33 04.78 207.29 0.00 38654.91 786187.39 N3.2093557 W103.6000 400.00 10.00 72.64 43692.27 63.33 04.78 207.29 0.00 38654.91 786187.39 N3.2093557 W103.6000 400.00 10.00 72.64 43692.77 63.33 04.78 207.29 0.00 38656.91 786187.39 N3.2093557 W103.6000 400.00 10.00 72.64 4477.21 78.64 17.74 18.20 1													W 103.601279
3600.00 10.00 72.64 3488.55 -43.08 44.06 140.99 0.00 39853.89 76812.64 N 32.093518 V103.6010 3600.00 10.00 72.64 3888.55 -43.08 44.06 140.99 0.00 39853.95 768137.41 N 32.093518 V103.6010 3800.00 10.00 72.64 376.81 4.14 49.24 174.14 0.00 39854.39 768137.41 N 32.093545 V103.6000 3800.00 10.00 72.64 376.81 53.21 54.42 174.14 0.00 39854.39 768137.41 N 32.093565 V103.6000 3900.00 10.00 72.64 3883.79 -58.27 59.60 190.71 0.00 39854.31 768137.41 N 32.093565 V103.6000 10.00 72.64 3883.79 -58.27 59.60 190.71 0.00 398554.31 768137.61 N 32.093578 V103.6000 10.00 72.64 377.73 6 75.14 240.44 0.00 38855.41 768187.13 N 32.093587 V103.6000 10.00 72.64 477.23 7.73.66 75.14 240.44 0.00 38855.41 768187.13 N 32.093587 V103.6000 10.00 72.64 477.73 6 75.14 240.44 0.00 38855.45 76820.22 N 32.083515 V103.6000 10.00 72.64 477.18 8 69.99 0.00 38855.41 76820.31 N 32.083687 V103.6000 10.00 72.64 477.18 8 69.99 0.00 38855.41 76820.31 N 32.083687 V103.6000 10.00 72.64 477.18 8 69.89 0.00 38855.61 76820.31 N 32.08368 V103.6000 10.00 72.64 477.18 8 69.89 0.00 38855.61 76820.31 N 32.08368 V103.6000 10.00 72.64 477.18 8 69.89 0.00 38855.61 76820.31 N 32.08368 V103.6000 10.00 72.64 477.18 8 69.89 0.00 38855.61 76820.31 N 32.08368 V103.6000 10.00 72.64 477.18 8 69.37 2 0.00 38855.61 76820.31 N 32.08368 V103.6000 10.00 72.64 477.18 8 69.37 2 0.00 38855.91 76820.31 N 32.08368 V103.6000 10.00 72.64 4800.00 10.00 72.64 4800.00 10.00 72.64 4800.00 10.00 72.64 4800.00 10.00 72.64 4800.00 10.00 72.64 4800.00 10.00 72.64 4800.00 10.00 72.64 4800.00 10.00 72.64 4800.00 10.00 72.64 4800.00 10.00 72.64 4800.00 10.00 72.64 4800.00 10.00 72.64 568.60 10.00 78.													W 103.601171
3600.00 10.00 72.64 3588.35 -43.08 44.06 140.99 0.00 398533.97 768123.48 1 N 32.093573 1 V103.6010 3980.00 10.00 72.64 3785.31 53.21 54.42 175.16 0.00 39853.37 768137.41 N 32.093573 V103.6000 3900.00 10.00 72.64 3785.31 53.21 54.42 174.14 0.00 398649.13 76817.05 N 32.093573 V103.6000 4000.00 10.00 72.64 3883.79 582.7 596.0 190.71 0.00 398549.13 768170.56 N 32.093573 V103.6000 4100.00 10.00 72.64 4080.75 68.40 69.96 223.86 0.00 398569.49 768203.71 N 32.093573 V103.6000 410.00 72.64 4080.75 68.40 69.96 223.86 0.00 398569.49 768203.71 N 32.093573 V103.6000 4300.00 10.00 72.64 477.71 78.63 80.92 257.01 0.00 398569.49 768203.71 N 32.093573 V103.6000 4300.00 10.00 72.64 477.71 78.63 80.92 257.01 0.00 398569.49 768203.71 N 32.093573 V103.6000 4400.00 10.00 72.64 477.64 89.85 80.92 257.01 0.00 398569.85 768203.68 N 32.093572 V103.6000 4400.00 10.00 72.64 477.64 89.85 80.92 257.01 0.00 398569.85 768203.68 N 32.093575 V103.6000 4400.00 10.00 72.64 477.68 88.66 89.68 290.16 0.00 398569.51 768203.68 N 32.093575 V103.6000 470.00 10.00 72.64 477.16 9.83.72 89.88 69.68 290.16 0.00 398569.21 768203.31 N 32.093575 V103.6000 470.00 10.00 72.64 477.16 9.83.72 89.88 89.68 396.74 0.00 398569.21 768203.35 N 32.093575 V103.6000 470.00 10.00 72.64 477.16 9.83.72 89.88 89.67 89.88 89.67 768203.88 N 32.093575 V103.6000 470.00 10.00 72.64 477.16 9.83.72 89.88 89.67 89.88 89.67 768203.35 N 32.093575 V103.6000 4800.00 10.00 72.64 477.16 9.83.72 89.88 89.78 89.78 89.88 89.00 398565.53 768203.85 N 32.093575 V103.6000 4800.00 10.00 72.64 477.16 9.83.72 11.44 93.88 11.44 93.88 89.00 398565.73 768303.15 N 32.093578 V103.6000 4800.00 10.00 72.64 4890.00 -170.07 72.64 4900.00 -170.60 72.64 4900.00 10.00 72.64 4900.00 10.00 72.64 4900.00 10.00 72.64 4900.00 10.00 72.64 4900.00 10.00 72.64 4900.00 10.00 72.64 4900.00 10.00 72.64 4900.00 10.00 72.64 4900.00 10.00 72.64 4900.00 10.00 72.64 596.84 11.44		3400.00	10.00	72.64	3391.39	-32.95	33.70	107.84	0.00	398523.23	768087.69	N 32.093504	W 103.601118
3700.00													W 103.601064
3800.00   10.00   72.64   3785.31   5-32.1   54.42   174.14   0.00   39854.91   768175.58   N 32.093559   N 103.6006     4000.00   10.00   72.64   3982.27   6-33.3   64.78   207.29   0.00   39854.91   7681875.65   N 32.093573   W 103.6006     4000.00   10.00   72.64   4090.75   6-84.0   69.96   223.86   0.00   398559.41   768187.13   N 32.093671   W 103.6007     4000.00   10.00   72.64   4179.23   7-34.6   75.14   240.44   0.00   398564.67   76820.371   N 32.093615   W 103.6007     4000.00   10.00   72.64   4277.71   -78.53   89.59   80.32   227.01   0.00   398564.67   768220.28   N 32.093615   W 103.6007     4000.00   10.00   72.64   4376.19   -83.59   85.50   273.59   0.00   39857.53   768253.43   N 32.093613   W 103.6006     4000.00   10.00   72.64   4474.88   -98.72   95.86   306.74   0.00   398580.21   768268.65   N 32.093671   W 103.6006     4000.00   10.00   72.64   4477.81   -93.72   95.86   306.74   0.00   398580.59   768268.65   N 32.093671   W 103.6006     4000.00   10.00   72.64   4470.12   -103.85   106.22   339.89   0.00   39859.57   768303.15   N 32.093679   W 103.6006     4000.00   10.00   72.64   4470.12   -103.85   106.22   339.89   0.00   39850.57   768303.15   N 32.093679   W 103.6006     4000.00   10.00   72.64   4490.00   -110.01   112.53   360.06   0.00   398600.35   768384.95   N 32.09376   W 103.6008     4000.00   10.00   72.64   4920.00   -110.01   112.53   360.06   0.00   398600.35   76834.95   N 32.09376   W 103.6008     4000.00   10.00   72.64   4920.00   -110.01   112.53   360.06   0.00   39860.11   76836.45   N 32.09376   W 103.6008     4000.00   10.00   72.64   4920.00   -110.14   12.76   399.61   0.00   39860.13   76834.95   N 32.09376   W 103.6008     4000.00   10.00   72.64   4920.00   -110.14   12.76   399.61   0.00   39860.35   76834.95   N 32.09376   W 103.6008     4000.00   10.00   72.64   4920.00   -110.14   12.76   399.61   0.00   39860.13   76834.95   N 32.09376   W 103.6008     4000.00   10.00   72.64   5499.48   -134.33   152.84   499.06   0.00   398662.63   768462.													
3900.00													
4000													
4100.00													W 103.600796
400.00		4100.00		72.64		-68.40		223.86	0.00	398559.49	768203.71		W 103.600742
4400.00													W 103.600689
## 450.00													
Head													
## 4700.00													
## 4800.00													W 103.600420
Base of Salt 4921.73 10.00 72.64 4890.00 -110.01 112.63 380.06 0.00 398602.06 768339.90 N 32.093716 W 103.6003 Bell Canyon 4952.19 10.00 72.64 4920.00 -1115.56 114.11 365.11 0.00 398603.63 768334.95 N 32.093726 W 103.6002 5000.00 10.00 72.64 4967.08 -113.98 116.58 373.04 0.00 398606.11 768352.87 N 32.093726 W 103.6002 5100.00 10.00 72.64 5065.56 -119.04 121.76 389.61 0.00 398611.29 768369.45 N 32.093726 W 103.6002 5200.00 10.00 72.64 5164.04 -124.10 126.94 406.19 0.00 398611.29 768369.45 N 32.093726 W 103.6002 5300.00 10.00 72.64 5262.52 -129.17 132.12 422.76 0.00 398612.65 768402.60 N 32.093754 W 103.6002 5500.00 10.00 72.64 5361.00 -134.23 137.30 439.34 0.00 39862.65 768402.60 N 32.093768 W 103.6000 5500.00 10.00 72.64 5459.48 139.30 142.48 455.91 0.00 39863.81 768419.17 N 32.093786 W 103.50908 5500.00 10.00 72.64 5557.96 -144.36 147.66 472.49 0.00 398637.19 768452.32 N 32.093796 W 103.5998 5500.00 10.00 72.64 5565.44 149.43 152.84 489.06 0.00 398637.19 768452.32 N 32.093818 W 103.5998 5500.00 10.00 72.64 5565.44 149.43 152.84 489.06 0.00 398637.19 768456.89 N 32.093824 W 103.5998 Cherry Canyon 5987.93 10.00 72.64 5553.40 -159.55 163.20 522.21 0.00 398657.31 768468.89 N 32.093828 W 103.5998 600.00 10.00 72.64 5565.89 -164.62 168.38 538.79 0.00 398657.31 768468.89 N 32.093868 W 103.5998 600.00 10.00 72.64 5051.89 -164.62 168.38 538.79 0.00 398657.31 768468.64 N 32.093868 W 103.5998 600.00 10.00 72.64 6050.37 -169.68 173.56 555.36 0.00 398657.31 768563.40 N 32.093868 W 103.5998 600.00 10.00 72.64 6043.23 -174.75 178.74 571.94 0.00 398668.31 76858.49 N 32.093808 W 103.5998 600.00 10.00 72.64 6345.81 -184.88 189.10 605.08 0.00 398663.81 76858.44 N 32.093980 W 103.5998 600.00 10.00 72.64 644.29 -189.94 194.28 621.66 0.00 398683.81 76854.64 N 32.093980 W 103.5998 600.00 10.00 72.64 6641.25 -189.94 194.28 621.66 0.00 398683.81 76861.60 N 32.093939 W 103.5994 600.00 10.00 72.64 6641.25 -189.94 194.28 621.66 0.00 398683.81 76861.60 N 32.093939 W 103.5994 600.00 10.00 72.64 6641.25 -189.94 194.28 621.66 0.00 398683.81		4800.00	10.00	72.64	4770.12	-103.85	106.22	339.89	0.00	398595.75	768319.73	N 32.093699	W 103.600367
Bell Canyon 4952.19 10.00 72.64 4920.00 -111.56 114.11 365.11 0.00 398603.63 768344.95 N 32.093720 W 1703.60020													W 103.600313
500.00 10.00 72.64 4967.08 -113.98 116.58 373.04 0.00 398606.11 768362.87 N 32.093726 W 103.6002 5200.00 10.00 72.64 5164.04 -124.10 126.94 406.19 0.00 398611.29 768369.45 N 32.093726 W 103.6002 5200.00 10.00 72.64 5164.04 -124.10 126.94 406.19 0.00 398616.47 768368.02 N 32.093754 W 103.6002 5400.00 10.00 72.64 5262.52 -129.17 132.12 422.76 0.00 398621.65 768402.60 N 32.093768 W 103.6002 5400.00 10.00 72.64 5361.00 -134.23 137.30 439.34 0.00 398621.65 768402.60 N 32.093768 W 103.6002 5500.00 10.00 72.64 5459.48 -139.30 142.48 455.91 0.00 39862.10 768435.75 N 32.093769 W 103.6002 5500.00 10.00 72.64 5557.96 -144.36 147.66 472.49 0.00 39863.20 768446.89 N 32.093782 W 103.5090 5700.00 10.00 72.64 5565.44 149.43 152.84 489.06 0.00 398647.55 76846.89 N 32.093824 W 103.5999 5700.00 10.00 72.64 5565.44 5754.92 -154.49 158.02 505.64 0.00 398647.55 768468.89 N 32.093824 W 103.5999 5800.00 10.00 72.64 5853.40 -159.55 163.20 502.21 0.00 398647.55 768468.89 N 32.093824 W 103.5999 5800.00 10.00 72.64 5853.40 -159.55 163.20 522.21 0.00 398657.51 768468.89 N 32.093828 W 103.5999 5800.00 10.00 72.64 5853.40 -159.55 163.20 522.21 0.00 398657.91 768468.89 N 32.093880 W 103.5999 6000.00 10.00 72.64 5951.89 -164.62 168.38 538.79 0.00 398657.91 76856.62 N 32.093864 W 103.5999 6000.00 10.00 72.64 5951.89 -164.62 168.38 538.79 0.00 398657.91 768518.62 N 32.093864 W 103.5999 600.00 10.00 72.64 605.37 149.43 14													
5100.00 10.00 72.64 5065.56 -119.04 121.76 389.61 0.00 398611.29 768366.45 N 32.093740 W 103.6002 5200.00 10.00 72.64 5164.04 -124.10 126.94 406.19 0.00 398611.29 768366.45 N 32.093764 W 103.6001 5300.00 10.00 72.64 5262.52 -129.17 132.12 422.76 0.00 398621.65 768402.60 N 32.093764 W 103.6001 500.00 10.00 72.64 5361.00 -134.23 137.30 439.34 0.00 398626.83 768419.17 N 32.093768 W 103.6001 5500.00 10.00 72.64 5459.48 139.30 142.48 455.91 0.00 39862.68 768419.17 N 32.093769 W 103.5998 5600.00 10.00 72.64 5557.96 144.36 147.66 472.49 0.00 398637.19 768452.32 N 32.093769 W 103.5998 5700.00 10.00 72.64 5656.44 -149.43 152.84 489.06 0.00 398637.19 768452.32 N 32.093810 W 103.5998 5800.00 10.00 72.64 5656.44 -149.43 152.84 489.06 0.00 398647.55 768468.89 N 32.093810 W 103.5998 5800.00 10.00 72.64 5655.40 159.55 163.20 505.64 0.00 398647.55 768468.47 N 32.093884 W 103.5998 5800.00 10.00 72.64 5653.40 -159.55 163.20 502.21 0.00 398657.37 768502.04 N 32.093884 W 103.5998 600.00 10.00 72.64 5853.40 -159.55 163.20 522.21 0.00 398657.37 768502.04 N 32.093884 W 103.5998 600.00 10.00 72.64 5951.89 -164.62 168.38 538.79 0.00 398657.91 76856.62 N 32.093864 W 103.5997 600.00 10.00 72.64 6050.37 -169.68 173.56 555.36 0.00 398657.91 76851.62 N 32.093864 W 103.5997 600.00 10.00 72.64 6050.37 -169.68 173.56 555.36 0.00 398657.91 76851.62 N 32.093864 W 103.5997 600.00 10.00 72.64 614.85 -174.75 178.74 571.94 0.00 398667.34 768568.34 N 32.093808 W 103.5997 600.00 10.00 72.64 6345.81 -184.88 189.10 605.08 0.00 398668.31 76858.41 N 32.093980 W 103.5998 600.00 10.00 72.64 6345.81 -184.88 189.10 605.08 0.00 398683.81 768584.91 N 32.093935 W 103.5994 600.00 10.00 72.64 644.29 -189.94 194.28 621.66 0.00 398683.81 76861.49 N 32.093935 W 103.5994 600.00 10.00 72.64 644.29 -189.94 194.28 621.66 0.00 398683.81 76861.49 N 32.093935 W 103.5994 600.00 10.00 72.64 644.29 -189.94 194.28 621.66 0.00 398683.81 76861.49 N 32.093935 W 103.5994 600.00 10.00 72.64 644.29 -189.94 194.28 621.66 0.00 398683.81 76861.49 N 32.093935 W 103.5994 600.00 10.00 72.6	Bell Canyon												
5200.00													
5300.00													W 103.600152
5400.00													W 103.600099
5600.00         10.00         72.64         5557.96         -144.36         147.66         472.49         0.00         398637.19         768452.32         N 32.093810         W 103.5998           5700.00         10.00         72.64         5656.44         -149.43         152.84         489.06         0.00         398647.55         768486.89         N 32.093832         W 103.5998           5800.00         10.00         72.64         5754.92         -154.49         158.02         505.64         0.00         398647.55         768485.47         N 32.093838         W 103.5998           600.00         10.00         72.64         5853.40         -159.55         163.20         522.21         0.00         398657.33         768502.04         N 32.093864         W 103.5998           600.00         10.00         72.64         5951.89         -164.01         167.76         536.79         0.00         398657.91         768516.62         N 32.093864         W 103.5998           600.00         10.00         72.64         5951.89         -164.62         168.38         538.79         0.00         398657.91         76851.62         N 32.093864         W 103.5998           600.00         10.00         72.64         6050.37         -169.6										398626.83			W 103.600045
5700.00													W 103.599991
580.00													W 103.599938
Cherry Carryon         5900.00         10.00         72.64         5853.40         -159.55         163.20         522.21         0.00         398652.73         768502.04         N 32.093852         W 103.5997           Cherry Carryon         5987.93         10.00         72.64         59940.00         -164.61         167.76         536.79         0.00         398657.28         768516.62         N 32.093864         W 103.5997           6000.00         10.00         72.64         6951.89         -164.62         168.38         538.79         0.00         398657.21         768518.62         N 32.093866         W 103.5995           6200.00         10.00         72.64         6148.85         -174.75         178.74         571.94         0.00         398663.09         768551.77         N 32.093886         W 103.5995           6300.00         10.00         72.64         6148.85         -174.75         178.74         571.94         0.00         398678.62         768551.77         N 32.093886         W 103.5995           6400.00         10.00         72.64         6345.81         -184.88         189.10         605.08         0.00         398678.63         76858.491         N 32.093932         W 103.5995           6500.00         10.00 </td <td></td>													
Cherry Canyon         5987.93         10.00         72.64         5940.00         -164.01         167.76         536.79         0.00         398657.28         768516.62         N 32.093864         W 103.5997.76           6000.00         10.00         72.64         5951.89         -164.62         168.38         538.79         0.00         398657.91         768518.62         N 32.093866         W 103.5996.61           6100.00         10.00         72.64         6050.37         -169.68         173.56         555.36         0.00         398663.09         768535.19         N 32.093808         W 103.5996.61           6200.00         10.00         72.64         6148.85         -174.75         178.74         571.94         0.00         398668.27         768551.77         N 32.093894         W 103.5996.61           6400.00         10.00         72.64         6345.81         -189.81         183.92         588.51         0.00         398673.45         768568.34         N 32.093994         W 103.5994.61           6400.00         10.00         72.64         6345.81         -184.88         189.10         605.08         0.00         398678.63         768568.49         N 32.093935         W 103.5994.61           6500.00         10.00												N 32.093038	
6000.00 10.00 72.64 5951.89 -164.62 168.38 538.79 0.00 398657.91 768518.62 N 32.093866 W 103.5997 6100.00 10.00 72.64 6050.37 -169.68 173.56 555.36 0.00 398663.09 768535.19 N 32.093860 W 103.5997 6200.00 10.00 72.64 6148.85 -174.75 178.74 571.94 0.00 398668.27 768551.77 N 32.093894 W 103.5998 6300.00 10.00 72.64 6247.33 -179.81 183.92 588.51 0.00 398673.45 768568.34 N 32.093908 W 103.5998 6400.00 10.00 72.64 6247.33 -179.81 183.92 588.51 0.00 398673.45 768568.34 N 32.093908 W 103.5998 6500.00 10.00 72.64 6345.81 -184.88 189.10 605.08 0.00 398678.65 768588.91 N 32.093902 W 103.5998 6500.00 10.00 72.64 6444.29 -189.94 194.28 621.66 0.00 398678.65 76858.40 N 32.093935 W 103.5994 6600.00 10.00 72.64 6644.29 -189.94 194.28 621.66 0.00 398688.81 768614.09 N 32.093935 W 103.5994 6700.00 10.00 72.64 6644.29 -195.00 199.46 638.23 0.00 398688.99 768618.06 N 32.093998 W 103.5994 6700.00 10.00 72.64 6641.25 -200.07 204.64 654.81 0.00 398694.17 768634.64 N 32.093985 W 103.5994	Cherry Canyon												W 103.599777 W 103.599730
6100.00 10.00 72.64 6050.37 -169.68 173.56 555.36 0.00 398663.09 768535.19 N 32.093880 W 103.5996 6200.00 10.00 72.64 6148.85 -174.75 178.74 571.94 0.00 398668.27 768551.77 N 32.093890 W 103.5996 6300.00 10.00 72.64 6247.33 179.81 183.92 588.51 0.00 398673.45 768568.34 N 32.093898 W 103.5995 6400.00 10.00 72.64 6345.81 -184.88 189.10 605.08 0.00 398673.63 76858.49 N 32.093921 W 103.5995 6500.00 10.00 72.64 6345.27 -189.94 194.28 621.66 0.00 398683.81 768601.49 N 32.093921 W 103.5994 6600.00 10.00 72.64 6542.77 -195.00 199.46 638.23 0.00 398688.91 768618.06 N 32.09395 W 103.5994 6700.00 10.00 72.64 6641.25 -200.07 204.64 654.81 0.00 398694.17 768634.64 N 32.093963 W 103.5994	22.1, 00.1,0.1												W 103.599723
6200.00 10.00 72.64 6148.85 -174.75 178.74 571.94 0.00 398668.27 768561.77 N 32.093894 W 103.5996 6300.00 10.00 72.64 6247.33 -179.81 183.92 588.51 0.00 398673.45 768568.34 N 32.093908 W 103.5995 6400.00 10.00 72.64 6345.81 -184.88 189.10 605.08 0.00 398678.63 768584.91 N 32.093921 W 103.5995 6500.00 10.00 72.64 6444.29 -189.94 194.28 621.66 0.00 398683.81 768584.91 N 32.093921 W 103.5994 6600.00 10.00 72.64 6542.77 -195.00 199.46 638.23 0.00 398688.91 768618.06 N 32.093949 W 103.5994 6700.00 10.00 72.64 6641.25 -200.07 204.64 654.81 0.00 398694.17 768634.64 N 32.093985 W 103.5994		6100.00			6050.37	-169.68		555.36	0.00	398663.09	768535.19	N 32.093880	W 103.599670
6400.00 10.00 72.64 6345.81 -184.88 189.10 605.08 0.00 398678.63 768584.91 N 32.093921 W 103.5995 6500.00 10.00 72.64 6444.29 -189.94 194.28 621.66 0.00 398683.81 768601.49 N 32.093925 W 103.5994 6600.00 10.00 72.64 6542.77 -195.00 199.46 638.23 0.00 398689.97 768618.06 N 32.093949 W 103.5994 6700.00 10.00 72.64 6641.25 -200.07 204.64 654.81 0.00 398694.17 768634.64 N 32.093963 W 103.5994		6200.00	10.00	72.64	6148.85	-174.75	178.74	571.94	0.00	398668.27	768551.77	N 32.093894	W 103.599616
6500.00 10.00 72.64 6444.29 -189.94 194.28 621.66 0.00 398683.81 768601.49 N 32.093935 W 103.5994 6600.00 10.00 72.64 6542.77 -195.00 199.46 638.23 0.00 398689.99 768618.06 N 32.093949 W 103.5994 6700.00 10.00 72.64 6641.25 -200.07 204.64 654.81 0.00 398694.17 768634.64 N 32.093963 W 103.5993													W 103.599562
6600.00 10.00 72.64 6542.77 -195.00 199.46 638.23 0.00 398688.99 768618.06 N 32.093949 W 103.5994 6700.00 10.00 72.64 6641.25 -200.07 204.64 654.81 0.00 398694.17 768634.64 N 32.093963 W 103.5993													W 103.599509
6700.00 10.00 72.64 6641.25 -200.07 204.64 654.81 0.00 398694.17 768634.64 N 32.093963 W 103.5993													
													W 103.599401 W 103.599348
		6800.00	10.00	72.64	6739.73	-205.13	209.82	671.38	0.00	398699.35	768651.21	N 32.093977	W 103.599346 W 103.599294

...Red Hills 32-5 Fed Com 128H\Cimarex Red Hills 32-5 Fed Com 128H Rev4 kFc 01Sep22

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S °)	Longitude (E/W°)
	6900.00 7000.00	10.00 10.00	72.64 72.64	6838.21 6936.69	-210.20 -215.26	215.00 220.18	687.96 704.53	0.00 0.00	398704.53 398709.71	768667.79 768684.36	N 32.093991 N 32.094005	W 103.599241 W 103.599187
Drop 2°/100ft	7026.68	10.00	72.64	6962.97	-216.61	221.57	704.96	0.00	398711.09	768688.78	N 32.094009	W 103.599173
	7100.00 7200.00	8.53 6.53	72.64 72.64	7035.33 7134.46	-220.05 -223.88	225.09 229.00	720.23 732.74	2.00 2.00	398714.61 398718.52	768700.05 768712.56	N 32.094018 N 32.094029	W 103.599136 W 103.599096
	7300.00	4.53	72.64	7233.99	-226.69	231.88	741.94	2.00	398721.40	768721.77	N 32.094036	W 103.599066
	7400.00	2.53	72.64	7333.79	-228.49	233.71	747.83	2.00	398723.24	768727.65	N 32.094041	W 103.599047
Hold	7500.00 7526.70	0.53 0.00	72.64 72.64	7433.75 7460.45	-229.27 -229.30	234.51 234.55	750.38 750.50	2.00 2.00	398724.03 398724.07	768730.21 768730.32	N 32.094044 N 32.094044	W 103.599039 W 103.599038
Brushy Canyon	7561.25	0.00	72.64	7495.00	-229.30	234.55	750.50	0.00	398724.07	768730.32	N 32.094044	W 103.599038
	7600.00 7700.00	0.00 0.00	72.64 72.64	7533.75 7633.75	-229.30 -229.30	234.55 234.55	750.50 750.50	0.00 0.00	398724.07 398724.07	768730.32 768730.32	N 32.094044 N 32.094044	W 103.599038 W 103.599038
	7800.00	0.00	72.64	7733.75	-229.30	234.55	750.50	0.00	398724.07	768730.32	N 32.094044	W 103.599038
	7900.00 8000.00	0.00 0.00	72.64 72.64	7833.75 7933.75	-229.30 -229.30	234.55 234.55	750.50 750.50	0.00 0.00	398724.07 398724.07	768730.32 768730.32	N 32.094044 N 32.094044	W 103.599038 W 103.599038
	8100.00	0.00	72.64	8033.75	-229.30	234.55	750.50	0.00	398724.07	768730.32	N 32.094044	W 103.599038
	8200.00 8300.00	0.00 0.00	72.64 72.64	8133.75 8233.75	-229.30 -229.30	234.55 234.55	750.50 750.50	0.00 0.00	398724.07 398724.07	768730.32 768730.32	N 32.094044 N 32.094044	W 103.599038 W 103.599038
	8400.00	0.00	72.64	8333.75	-229.30	234.55	750.50	0.00	398724.07	768730.32	N 32.094044	W 103.599038
	8500.00 8600.00	0.00 0.00	72.64 72.64	8433.75 8533.75	-229.30 -229.30	234.55 234.55	750.50 750.50	0.00 0.00	398724.07 398724.07	768730.32 768730.32	N 32.094044 N 32.094044	W 103.599038 W 103.599038
	8700.00	0.00	72.64	8633.75	-229.30	234.55	750.50	0.00	398724.07	768730.32	N 32.094044	W 103.599038
	8800.00 8900.00	0.00 0.00	72.64 72.64	8733.75 8833.75	-229.30 -229.30	234.55 234.55	750.50 750.50	0.00 0.00	398724.07 398724.07	768730.32 768730.32	N 32.094044 N 32.094044	W 103.599038 W 103.599038
	9000.00	0.00	72.64	8933.75	-229.30	234.55	750.50	0.00	398724.07	768730.32	N 32.094044	W 103.599038
DC/DC / ima	9100.00	0.00	72.64	9033.75	-229.30	234.55	750.50	0.00	398724.07	768730.32	N 32.094044	W 103.599038
BS/BS Lime Leonard	9116.25 9146.25	0.00 0.00	72.64 72.64	9050.00 9080.00	-229.30 -229.30	234.55 234.55	750.50 750.50	0.00 0.00	398724.07 398724.07	768730.32 768730.32	N 32.094044 N 32.094044	W 103.599038 W 103.599038
	9200.00	0.00	72.64	9133.75	-229.30	234.55	750.50	0.00	398724.07	768730.32	N 32.094044	W 103.599038
Avalon	9300.00 9386.25	0.00 0.00	72.64 72.64	9233.75 9320.00	-229.30 -229.30	234.55 234.55	750.50 750.50	0.00 0.00	398724.07 398724.07	768730.32 768730.32	N 32.094044 N 32.094044	W 103.599038 W 103.599038
Avaion	9400.00	0.00	72.64	9333.75	-229.30	234.55	750.50	0.00	398724.07	768730.32	N 32.094044	W 103.599038
	9500.00 9600.00	0.00 0.00	72.64 72.64	9433.75 9533.75	-229.30 -229.30	234.55 234.55	750.50 750.50	0.00 0.00	398724.07 398724.07	768730.32 768730.32	N 32.094044 N 32.094044	W 103.599038 W 103.599038
	9700.00	0.00	72.64	9633.75	-229.30	234.55	750.50	0.00	398724.07	768730.32	N 32.094044	W 103.599038
	9800.00	0.00	72.64	9733.75	-229.30	234.55	750.50	0.00	398724.07	768730.32 768730.32	N 32.094044	W 103.599038
	9900.00 10000.00	0.00 0.00	72.64 72.64	9833.75 9933.75	-229.30 -229.30	234.55 234.55	750.50 750.50	0.00 0.00	398724.07 398724.07	768730.32	N 32.094044 N 32.094044	W 103.599038 W 103.599038
4-4 00 04	10100.00	0.00	72.64	10033.75	-229.30	234.55	750.50	0.00	398724.07	768730.32	N 32.094044	W 103.599038
1st BS Sand	10111.25 10200.00	0.00 0.00	72.64 72.64	10045.00 10133.75	-229.30 -229.30	234.55 234.55	750.50 750.50	0.00 0.00	398724.07 398724.07	768730.32 768730.32	N 32.094044 N 32.094044	W 103.599038 W 103.599038
	10300.00	0.00	72.64	10233.75	-229.30	234.55	750.50	0.00	398724.07	768730.32	N 32.094044	W 103.599038
	10400.00 10500.00	0.00 0.00	72.64 72.64	10333.75 10433.75	-229.30 -229.30	234.55 234.55	750.50 750.50	0.00 0.00	398724.07 398724.07	768730.32 768730.32	N 32.094044 N 32.094044	W 103.599038 W 103.599038
	10600.00	0.00	72.64	10533.75	-229.30	234.55	750.50	0.00	398724.07	768730.32	N 32.094044	W 103.599038
2nd BS Sand	<i>10646.25</i> 10700.00	0.00 0.00	72.64 72.64	10580.00 10633.75	-229.30 -229.30	234.55 234.55	750.50 750.50	0.00 0.00	398724.07 398724.07	768730.32 768730.32	N 32.094044 N 32.094044	W 103.599038 W 103.599038
	10800.00	0.00	72.64	10733.75	-229.30	234.55	750.50	0.00	398724.07	768730.32	N 32.094044	W 103.599038
KOP, Build	10858.70	0.00	72.64	10792.45	-229.30	234.55	750.50	0.00	398724.07	768730.32	N 32.094044	W 103.599038
10°/100ft	10900.00	4.13	187.60	10833.72	-227.83	233.08	750.30	10.00	398722.60	768730.13	N 32.094040	W 103.599039
	11000.00	14.13	187.60	10932.32	-212.14	217.37	748.21	10.00	398706.89	768728.03	N 32.093996	W 103.599046
3rd BS Carb	<i>11076.45</i> 11100.00	21.78 24.13	187.60 187.60	11005.00 11026.68	-188.82 -179.73	194.03 184.92	745.09 743.88	10.00 10.00	398683.55 398674.45	768724.91 768723.70	N 32.093932 N 32.093907	W 103.599057 W 103.599061
	11200.00	34.13	187.60	11113.92	-131.58	136.73	737.44	10.00	398626.26	768717.27	N 32.093775	W 103.599082
	11300.00 11400.00	44.13 54.13	187.60 187.60	11191.40 11256.75	-69.17 5.62	74.26 -0.60	729.10 719.11	10.00 10.00	398563.79 398488.93	768708.93 768698.93	N 32.093603 N 32.093398	W 103.599111 W 103.599145
	11500.00	64.13	187.60	11307.99	90.51	-85.57	707.76	10.00	398403.96	768687.59	N 32.093165	W 103.599183
Build & Turn	11600.00	74.13	187.60	11343.57	182.92	-178.07	695.42	10.00	398311.47	768675.24	N 32.092911	W 103.599225
5°/100ft	11608.70	75.00	187.60	11345.88	191.22	-186.38	694.31	10.00	398303.16	768674.13	N 32.092888	W 103.599229
	11700.00 11800.00	79.03 83.46	185.40	11366.40	279.52 378.01	-274.75 -373.29	684.25 676.97	5.00 5.00	398214.79 398116.25	768664.07 768656.79	N 32.092645 N 32.092374	W 103.599263 W 103.599289
	11900.00	87.90	183.06 180.76	11381.61 11389.14	477.61	-472.92	673.65	5.00	398016.63	768653.48	N 32.092101	W 103.599302
3rd BS Carb	11945.25	89.92	179.72	11390.00	522.85	-518.16	673.46	5.00	397971.39	768653.29	N 32.091976	W 103.599303
target 3rd BS Carb												
target	11948.99	90.08	179.64	11390.00	526.59	-521.90	673.48	5.00	397967.65	768653.31	N 32.091966	W 103.599304
Landing Point	11950.48 12000.00	90.15 90.15	179.60 179.60	11390.00 11389.87	528.07 577.59	-523.38 -572.90	673.49 673.83	5.00 0.00	397966.16 397916.64	768653.32 768653.66		W 103.599304 W 103.599303
	12100.00	90.15	179.60	11389.61	677.59	-672.90	674.52	0.00	397816.65	768654.35		W 103.599303
	12200.00	90.15	179.60	11389.35	777.59	-772.90	675.21	0.00	397716.66	768655.04		W 103.599303
	12300.00 12400.00	90.15 90.15	179.60 179.60	11389.09 11388.83	877.59 977.59	-872.90 -972.89	675.90 676.59	0.00	397616.66 397516.67	768655.73 768656.42	N 32.091001 N 32.090726	W 103.599303 W 103.599303
	12500.00 12600.00	90.15 90.15	179.60 179.60	11388.57 11388.31	1077.59 1177.59	-1072.89 -1172.89	677.28 677.97	0.00 0.00	397416.68 397316.68	768657.11 768657.80	N 32.090451 N 32.090176	W 103.599303 W 103.599303
	12700.00	90.15	179.60	11388.05	1277.59	-1272.89	678.66	0.00	397216.69	768658.49	N 32.089902	W 103.599303 W 103.599303
	12800.00	90.15	179.60	11387.79	1377.59	-1372.88	679.35	0.00	397116.69	768659.18	N 32.089627	W 103.599303
	12900.00 13000.00	90.15 90.15	179.60 179.60	11387.52 11387.26	1477.59 1577.59	-1472.88 -1572.88	680.05 680.74	0.00 0.00	397016.70 396916.71	768659.87 768660.56	N 32.089352 N 32.089077	W 103.599303 W 103.599303
	13100.00	90.15	179.60	11387.00	1677.59	-1672.87	681.43	0.00	396816.71	768661.25	N 32.088802	W 103.599303
	13200.00 13300.00	90.15 90.15	179.60 179.60	11386.74 11386.48	1777.59 1877.59	-1772.87 -1872.87	682.12 682.81	0.00 0.00	396716.72 396616.72	768661.94 768662.63	N 32.088527 N 32.088252	W 103.599303 W 103.599303
	13400.00	90.15	179.60	11386.22	1977.59	-1972.87	683.50	0.00	396516.73	768663.32	N 32.087978	W 103.599303
	13500.00	90.15	179.60	11385.96	2077.59	-2072.86	684.19	0.00	396416.74 396316.74	768664.01	N 32.087703	W 103.599303 W 103.599303
	13600.00 13700.00	90.15 90.15	179.60 179.60	11385.70 11385.44	2177.59 2277.59	-2172.86 -2272.86	684.88 685.57	0.00	396216.75	768664.71 768665.40	N 32.087428 N 32.087153	W 103.599303 W 103.599303
	13800.00	90.15	179.60	11385.18	2377.59	-2372.86	686.26	0.00	396116.76	768666.09	N 32.086878	W 103.599303
	13900.00 14000.00	90.15 90.15	179.60 179.60	11384.92 11384.66	2477.59 2577.59	-2472.85 -2572.85	686.95 687.64	0.00 0.00	396016.76 395916.77	768666.78 768667.47	N 32.086603 N 32.086328	W 103.599303 W 103.599303
	14100.00	90.15	179.60	11384.40	2677.59	-2672.85	688.33	0.00	395816.77	768668.16	N 32.086053	W 103.599303
	14200.00 14300.00	90.15 90.15	179.60 179.60	11384.14 11383.88	2777.59 2877.59	-2772.84 -2872.84	689.02 689.71	0.00 0.00	395716.78 395616.79	768668.85 768669.54	N 32.085779 N 32.085504	W 103.599303 W 103.599303
	14400.00	90.15	179.60	11383.62	2977.59	-2972.84	690.40	0.00	395516.79	768670.23	N 32.085229	W 103.599303
	14500.00 14600.00	90.15	179.60 179.60	11383.36 11383.10	3077.59 3177.59	-3072.84 -3172.83	691.09 691.78	0.00	395416.80 395316.80	768670.92 768671.61	N 32.084954 N 32.084679	W 103.599303 W 103.599303
	14700.00	90.15 90.15	179.60	11383.10	3277.59	-3172.83 -3272.83	692.47	0.00 0.00	395316.80	768671.61	N 32.084404	W 103.599303 W 103.599303
	14800.00	90.15	179.60	11382.58	3377.59	-3372.83	693.16	0.00	395116.82	768672.99	N 32.084129	W 103.599303
	14900.00 15000.00	90.15 90.15	179.60 179.60	11382.32 11382.06	3477.58 3577.58	-3472.83 -3572.82	693.86 694.55	0.00 0.00	395016.82 394916.83	768673.68 768674.37	N 32.083854 N 32.083580	W 103.599303 W 103.599303
	15100.00	90.15	179.60	11381.80	3677.58	-3672.82	695.24	0.00	394816.84	768675.06	N 32.083305	W 103.599302
	15200.00 15300.00	90.15 90.15	179.60 179.60	11381.54 11381.28	3777.58 3877.58	-3772.82 -3872.81	695.93 696.62	0.00 0.00	394716.84 394616.85	768675.75 768676.44	N 32.083030 N 32.082755	W 103.599302 W 103.599302
	15400.00	90.15	179.60	11381.02	3977.58	-3972.81	697.31	0.00	394516.85	768677.13	N 32.082480	W 103.599302
	15500.00 15600.00	90.15 90.15	179.60 179.60	11380.76 11380.50	4077.58 4177.58	-4072.81 -4172.81	698.00 698.69	0.00 0.00	394416.86 394316.87	768677.82 768678.52	N 32.082205 N 32.081930	W 103.599302 W 103.599302
	13000.00	JU. 10	179.00	11000.00	41/1.00	~+ I / Z.O I	60.060	0.00	J34J 10.01	100010.02	14 32.001930	** 100.088002

...Red Hills 32-5 Fed Com 128H\Cimarex Red Hills 32-5 Fed Com 128H Rev4 kFc 01Sep22

1570.00   10.15   179.00   11.03   179.00   11.03   23   4277.88   4272.80	Comments	MD (ft)	Incl (°)	Azim Grid	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S °)	Longitude (E/W°)
1500.00													
1900.00   1900.00   1900.00   1915   1796.00   1197.07   1477.00   170.07   100.00   200.00													
1000000   10   10   177   10   1171   10		15000.00											
1610000   16100   1771   1772   1772   1772   1772   1770   1   1   1   1   1   1   1   1   1													
1020000   101   17900   11376   11376   4777.29   4772.79   770.29   0.00   39574.59   7690.20   342.00000   911.000000   911.000000   911.000000   911.000000   911.000000   911.000000   911.000000   911.000000   911.000000   911.000000   911.000000   911.0000000   911.0000000   911.0000000   911.00000000   911.000000000   911.00000000000000000000000000000000000													
18000    1900    1910    1916    191			90.15										
Section 25   1.1.													
Line Speed of Total and State Control (1975)	Castian 20 F	10300.00	90.15	179.00	11370.07	4077.30	-40/2./9	103.32	0.00	393010.91	700003.33	N 32.000000	W 103.399302
Case													
Lase Cross		16375.66	90.15	179.60	11378.48	4953.24	-4948.45	704.04	0.00	393541.25	768683.87	N 32.079798	W 103.599302
1940,00													
1850.00	Lease Cross										=		
1600.00													
167710 0		16500.00								393416.92		N 32.079457	
16800.00   0.15   77.960   1377.73   5377.58   5377.67   706.98   0.00   330116.94   78686.86   N. 32.078632   VI 103.9866   170.00   0.15   77.96   170.00   0.15													
1680000   90.15													
1700.00								706.98					
1710000													
17200 0													
1730.00													
1740,00			90.15										W 103.599302
1750.00													W 103.599302
For earl for MAMMATOROPA PART		17400.00	90.15	179.60			-5972.76	711.12	0.00	392516.98	768690.94	N 32.076983	W 103.599302
Fee set file													W 103.599302
Fig. 25 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1													W 103.599302
MMMATORBOSO - 4 enter leases - 1700.00 - 50.15 - 170.00 -	Fee exit to												
4 enter lease		.=											
Cross V		17698.15	90.15	179.60	11375.03	6275.73	-6270.90	713.18	0.00	392218.84	768693.00	N 32.076163	W 103.599302
1770 0.00   90.15   179.60   11374.07   1375.03   2277.58   -9272.75   713.19   0.00   392216.99   768893.02   N3.2076168   V103.5983													
17800.00   90.15   178.60   11374.77   6377.58   -6377.215   713.88   0.00   392117.00   768693.71   N. 32.075863   W. 103.5969   1800.00   90.15   178.60   11374.51   6477.57   -6572.74   715.26   0.00   392117.01   768696.60   N. 32.075803   W. 103.5969   M. 103.5	5,500	17700.00	00.15	170.60	11375 02	6277 50	6272.75	712 10	0.00	302246 00	768602.02	N 32 0764F0	W 103 E00303
17900.00   90.15   179.60   11374.25   6477.57   -6472.74   714.57   0.00   39217.01   78698.40   N 32.07550   W103.5969   1800.00   90.15   179.60   11374.25   6577.57   -6572.74   715.95   0.00   391917.01   78698.67   N 32.07553   W103.5969													
1800.00													
1810.00   90.15   179.60   11373.79   6677.57   -6672.74   715.95   0.00   391817.02   768695.78   N 32.072659   W 103.5993   1820.00   90.15   179.60   11373.74   6877.57   -6872.73   7716.04   0.00   391817.03   768696.76   N 32.072659   W 103.5993   1820.00   90.15   179.60   11373.74   6877.57   -6872.73   7716.03   0.00   391817.04   768697.68   N 32.072659   W 103.5993   1820.00   90.15   179.60   11373.24   6877.57   -6872.73   7716.03   0.00   391817.04   768697.68   N 32.072659   W 103.5993   1820.00   90.15   179.60   11372.68   7717.57   -7712.72   7718.00   0.00   391817.05   768698.28   N 32.072659   W 103.5993   1820.00   90.15   179.60   11372.68   7717.57   -7727.27   7720.09   0.00   391817.05   768698.29   N 32.073694   W 103.5993   1820.00   90.15   179.60   11371.64   7577.57   -7572.71   722.17   720.09   0.00   391817.05   768698.23   N 32.073894   W 103.5993   N 32.073894   N 32.073894   W 103.5993   N 32.073894   W 103.5993   N 32.073894   W 103.5993   N 32.073894   W 103.5993   N 32.073894													
18200.00   90.15   179.60   11373.73   6777.57   -6772.74   716.64   0.00   391171.03   768861.47   N 2.074759   W 103.5993   18400.00   90.15   179.60   11373.21   6977.57   -6972.73   716.70   0.00   391171.03   768867.16   N 3.074759   W 103.5993   18600.00   90.15   179.60   11373.21   6977.57   -6972.73   716.70   0.00   391171.04   768869.25   N 3.074234   W 103.5993   18600.00   90.15   179.60   11372.34   7177.37   7172.77   718.71   0.00   391171.04   768869.25   N 3.074234   W 103.5993   18600.00   90.15   179.60   11372.34   7177.37   7172.77   718.71   0.00   391171.05   768869.22   N 3.074884   W 103.5993   18600.00   90.15   179.60   11372.34   7777.37   7772.77   778.71   777.72   779.70   0.00   391171.06   76870.01   N 3.072869   W 103.5993   19000.00   90.15   179.60   11371.64   7577.57   7772.71   778.71   7772.71   779.70   0.00   391171.06   76870.01   N 3.072869   W 103.5993   N 3.072869													
1830.00   90.15   179.60   11373.47   8877.67   -6872.73   717.33   0.00   301617.03   766807.16   N. 32.074509   W. 103.5903   1850.00   90.15   179.60   11372.94   7077.67   -7072.73   718.71   0.00   301417.04   766868.54   N. 32.073595   W. 103.5903   1870.00   90.15   179.60   11372.42   7277.67   -7072.73   718.71   0.00   301417.04   766868.54   N. 32.073595   W. 103.5903   1870.00   90.15   179.60   11372.42   7277.67   -7272.72   720.09   0.00   301217.06   768869.92   N. 32.073595   W. 103.5903   W. 103													
1840000   90.15   178.60   11372.91   6977.67   -6972.73   718.02   0.00   391517.04   768697.85   N 32.074234   W103.5993   18500.00   90.15   178.60   11372.98   7177.57   -7172.72   719.40   0.00   391317.05   768699.23   N 32.073594   W103.5993   W103.													
18500.00   90.15   179.60   11372.94   7077.57   71072.73   718.71   0.00   391417.04   76898.95   87.207369   W10.56993   18600.00   90.15   179.60   11372.42   7277.67   7272.72   720.09   0.00   391371.05   768699.23   82.07369   W10.56993   18600.00   90.15   179.60   11372.42   7277.67   7272.72   720.09   0.00   391217.06   768699.23   82.07369   W10.56993   18000.00   90.15   179.60   11371.91   7477.57   7472.72   721.48   0.00   391017.07   76870.61   82.07369   W10.56993   18000.00   90.15   179.60   11371.91   7477.57   7472.72   721.48   0.00   391017.07   76870.13   82.07369   W10.56993   W10.569													W 103.599301
1980   1900   19.15   179.60   11372   1175.57   1717.57   1712.72   1719.40   10.00   391317.05   786990.22   32.07369   10.55993   1800   19.00   11371.05   179.60   11372.16   1737.57   1737.57   1737.27   172.079   10.00   391317.06   1800   1800   1800   1800   11371.05   179.60   11371.05   179.75   179.75   177.57   172.71   172.17   10.00   390917.07   768701.90   18.20,07365   18.00   18.20,07365   19.00   11371.05   179.60   11371													
1870000		18500.00	90.15	179.60	11372.94	7077.57	-7072.73	718.71	0.00	391417.04	768698.54		W 103.599301
1880.00		18600.00	90.15	179.60	11372.68	7177.57	-7172.72		0.00		768699.23		W 103.599301
MANMO106040   Mol   Mo		18700.00	90.15	179.60					0.00		768699.92		W 103.599301
MAINIMO100040  **NAINIMO100040  **NAINIMO10040  **NA		18800.00	90.15	179.60	11372.16	7377.57	-7372.72	720.79	0.00	391117.06	768700.61	N 32.073135	W 103.599301
MANNMO106040 4 exit to  1 exit to		18900.00	90.15	179.60	11371.90	7477.57	-7472.72	721.48	0.00	391017.07	768701.30	N 32.072860	W 103.599301
NMMMO160973								722.17				N 32.072585	W 103.599301
4 exit fo MINIMM/16973   19020.59   90.75   179.60   11371.59   7598.16   -7593.30   722.31   0.00   390896.49   768702.13   N 32.072528   W 103.5993 enter lease Cross	NMNM0106040												
Cross    19100.00   90.15   179.60   11371.38   7677.57   -7672.71   722.86   0.00   330817.08   768702.68   N32.072310   W 103.5993   19200.00   90.15   179.60   11370.86   7877.57   -7772.71   722.85   0.00   330817.09   768703.37   N32.072305   W 103.5993   19300.00   90.15   179.60   11370.86   7877.57   -7872.71   724.24   0.00   330617.09   768703.37   N32.072305   W 103.5993   19500.00   90.15   179.60   11370.86   7877.57   -7872.71   724.24   0.00   330617.09   768704.06   N32.071460   W 103.5993   19500.00   90.15   179.60   11370.84   8077.57   -8072.70   725.62   0.00   330417.10   768704.75   N32.071465   W 103.5993   19500.00   90.15   179.60   11370.08   8177.57   -8072.70   725.62   0.00   330417.10   768705.44   N32.071465   W 103.5993   19500.00   90.15   179.60   11360.82   2277.57   -8272.69   727.00   0.00   330417.11   768706.81   N32.070686   W 103.5993   19500.00   90.15   179.60   11360.82   2277.57   -8272.69   727.00   0.00   330417.12   768705.82   N32.07068   W 103.5993   19500.00   90.15   179.60   11360.82   2277.57   -8272.69   727.00   0.00   330417.12   768706.82   N32.070616   W 103.5993   19500.00   90.15   179.60   11360.84   8377.57   -8372.69   728.38   0.00   330417.12   768706.82   N32.070616   W 103.5993   19500.00   90.15   179.60   11360.84   8677.57   -8672.69   728.07   0.00   38917.14   768708.90   N32.069836   W 103.5993   20000.00   90.15   179.60   11360.85   8677.57   -8672.69   729.07   0.00   38917.14   768708.90   N32.069836   W 103.5993   20000.00   90.15   179.60   11368.67   8677.57   -8672.69   729.07   0.00   38917.17   76870.82   N32.069836   W 103.5993   20000.00   90.15   179.60   11368.67   8677.57   -8772.69   729.07   0.00   38917.17   76870.82   N32.069836   W 103.5993   20000.00   90.15   179.60   11368.67   8677.57   -8772.69   729.07   0.00   38917.17   76870.82   N32.069836   W 103.5993   20000.00   90.15   179.60   11368.67   8977.57   -8772.69   729.00   729.00   729.00   729.00   729.00   729.00   729.00   729.00   729.00   729.00   729.00													
Cross    19100.00   90.15   179.60   11371.38   7677.57   -7672.71   722.86   0.00   330817.08   768702.68   N32.072310   W 103.5993   19200.00   90.15   179.60   11370.86   7877.57   -7772.71   722.85   0.00   330817.09   768703.37   N32.072305   W 103.5993   19300.00   90.15   179.60   11370.86   7877.57   -7872.71   724.24   0.00   330617.09   768703.37   N32.072305   W 103.5993   19500.00   90.15   179.60   11370.86   7877.57   -7872.71   724.24   0.00   330617.09   768704.06   N32.071460   W 103.5993   19500.00   90.15   179.60   11370.84   8077.57   -8072.70   725.62   0.00   330417.10   768704.75   N32.071465   W 103.5993   19500.00   90.15   179.60   11370.08   8177.57   -8072.70   725.62   0.00   330417.10   768705.44   N32.071465   W 103.5993   19500.00   90.15   179.60   11360.82   2277.57   -8272.69   727.00   0.00   330417.11   768706.81   N32.070686   W 103.5993   19500.00   90.15   179.60   11360.82   2277.57   -8272.69   727.00   0.00   330417.12   768705.82   N32.07068   W 103.5993   19500.00   90.15   179.60   11360.82   2277.57   -8272.69   727.00   0.00   330417.12   768706.82   N32.070616   W 103.5993   19500.00   90.15   179.60   11360.84   8377.57   -8372.69   728.38   0.00   330417.12   768706.82   N32.070616   W 103.5993   19500.00   90.15   179.60   11360.84   8677.57   -8672.69   728.07   0.00   38917.14   768708.90   N32.069836   W 103.5993   20000.00   90.15   179.60   11360.85   8677.57   -8672.69   729.07   0.00   38917.14   768708.90   N32.069836   W 103.5993   20000.00   90.15   179.60   11368.67   8677.57   -8672.69   729.07   0.00   38917.17   76870.82   N32.069836   W 103.5993   20000.00   90.15   179.60   11368.67   8677.57   -8772.69   729.07   0.00   38917.17   76870.82   N32.069836   W 103.5993   20000.00   90.15   179.60   11368.67   8677.57   -8772.69   729.07   0.00   38917.17   76870.82   N32.069836   W 103.5993   20000.00   90.15   179.60   11368.67   8977.57   -8772.69   729.00   729.00   729.00   729.00   729.00   729.00   729.00   729.00   729.00   729.00   729.00	NMNM0160973	19020.59	90.15	179.60	11371.59	7598.16	-7593.30	722.31	0.00	390896.49	768702.13	N 32.072528	W 103.599301
19100 00								. ==					
19100 00   90.15   179.60   11371.38   7677.57   -7672.71   722.86   0.00   390817.08   768702.88   N 32.072310   W 103.5993   19300 00   90.15   179.60   11371.12   7777.57   -772.71   722.55   0.00   39071.00   76870.37   N 32.07235   W 103.5993   19300 00   90.15   179.60   11370.86   7877.57   -7872.71   724.24   0.00   390617.00   768704.06   N 32.07160   W 103.5993   19500 00   90.15   179.60   11370.86   8177.57   -7972.70   724.93   0.00   390617.10   768704.75   N 32.07185   W 103.5993   19500 00   90.15   179.60   11370.08   8177.57   -8172.70   725.62   0.00   390417.10   768704.45   N 32.07185   W 103.5993   19700 00   90.15   179.60   11369.82   8277.57   -8172.70   725.62   0.00   390417.10   768706.13   N 32.070936   W 103.5993   19700 00   90.15   179.60   11369.65   8377.57   -8372.69   727.60   0.00   390117.12   768706.82   N 32.070681   W 103.5993   19900.00   90.15   179.60   11369.65   8377.57   -8372.69   727.69   0.00   390117.12   768706.20   N 32.070386   W 103.5993   N 32.07039   N 32.07039   W 103.5993   N 32.07039   N 32.070													
19200.00   90.15   179.60   11371.12   7777.57   7772.71   723.55   0.00   390717.09   768703.37   N 32.072035   W 103.5993   19400.00   90.15   179.60   11370.60   7977.57   7972.70   724.83   0.00   390617.09   768704.06   N 32.071760   W 103.5993   19500.00   90.15   179.60   11370.00   8177.57   -8072.70   725.62   0.00   390417.10   768705.45   N 32.071485   W 103.5993   19500.00   90.15   179.60   11370.00   8177.57   -8172.70   725.62   0.00   390417.10   768705.44   N 32.071210   W 103.5993   19700.00   90.15   179.60   11369.56   8377.57   -8372.69   727.00   0.00   390217.12   768705.82   N 32.07036   W 103.5993   19600.00   90.15   179.60   11369.30   8477.57   -8472.69   727.69   0.00   390217.12   768705.52   N 32.07036   W 103.5993   19600.00   90.15   179.60   11369.30   8477.57   -8472.69   728.38   0.00   39017.13   768705.25   N 32.07036   W 103.5993   19600.00   90.15   179.60   11369.87   8677.57   -8572.69   729.07   0.00   390217.14   768705.99   N 32.069836   W 103.5993   19600.00   90.15   179.60   11368.78   8677.57   -8572.69   729.07   0.00   389917.14   768705.99   N 32.069836   W 103.5993   19600.00   90.15   179.60   11368.26   8677.57   -8672.68   729.76   0.00   389917.15   76870.25   N 32.069836   W 103.5993   19600.00   90.15   179.60   11368.26   8677.57   -8672.68   731.44   0.00   389917.15   76870.25   N 32.069836   W 103.5993   19600.00   90.15   179.60   11368.74   9077.57   -8972.66   731.83   0.00   389917.16   768710.28   N 32.069836   W 103.5993   19600.00   90.15   179.60   11365.74   9077.57   -8972.66   733.80   0.00   389917.16   768711.66   N 32.069701   W 103.5993   19600.00   90.15   179.60   11365.66   9377.56   -9972.67   733.21   0.00   389917.17   768713.04   N 32.069737   W 103.5993   19600.00   90.15   179.60   11365.69   9377.56   -9972.66   736.67   0.00   389917.17   768713.04   N 32.069737   W 103.5993   19600.00   90.15   179.60   11365.69   9377.56   -9972.66   736.67   0.00   389917.17   768713.04   N 32.066738   W 103.5993   19600.00   90.15   1		19100.00	90.15	179.60	11371 38	7677 57	-7672 71	722.86	0.00	390817.08	768702 68	N 32 072310	W/ 103 500301
19300.00   90.15   179.60   11370.96   7877.57   -7872.71   724.24   0.00   390617.09   768704.06   N 32.071760   W 103.5993   19500.00   90.15   179.60   11370.34   8077.57   -8072.70   725.62   0.00   390617.10   768704.56   N 32.071860   W 103.5993   19500.00   90.15   179.60   11370.34   8077.57   -8072.70   725.62   0.00   390417.10   768705.44   N 32.071210   W 103.5993   19700.00   90.15   179.60   11369.62   8277.57   -8272.69   727.00   0.00   390417.11   768706.13   N 32.071210   W 103.5993   19700.00   90.15   179.60   11369.65   8377.57   -8272.69   727.00   0.00   390217.12   768706.25   N 32.070386   W 103.5993   19900.00   90.15   179.60   11369.04   8577.57   -8472.69   728.38   0.00   39017.13   768706.21   N 32.070386   W 103.5993   19900.00   90.15   179.60   11369.04   8577.57   -8672.68   729.07   0.00   389917.14   768706.90   N 32.069836   W 103.5993   20100.00   90.15   179.60   11368.62   8777.57   -8672.68   729.07   0.00   389917.14   768708.90   N 32.069836   W 103.5993   20100.00   90.15   179.60   11368.62   8777.57   -8672.68   729.67   0.00   389917.14   768709.90   N 32.069836   W 103.5993   20300.00   90.15   179.60   11368.62   8777.57   -8672.68   739.76   0.00   389317.15   76870.22   N 32.069286   W 103.5993   20300.00   90.15   179.60   11368.62   8777.57   -872.68   731.14   0.00   389317.15   768710.29   N 32.069836   W 103.5993   20300.00   90.15   179.60   11368.62   8777.57   -872.68   731.83   0.00   389317.17   768710.28   N 32.068612   W 103.5993   20300.00   90.15   179.60   11368.74   9077.57   -872.68   731.83   0.00   389317.17   768713.04   N 32.068617   W 103.5993   20300.00   90.15   179.60   11367.74   9077.57   -9072.67   733.21   0.00   389317.17   768713.07   N 32.068737   W 103.5993   20300.00   90.15   179.60   11366.64   9577.56   -9372.66   736.67   0.00   389317.17   768713.73   N 32.066732   W 103.5993   20300.00   90.15   179.60   11366.69   9377.56   -9372.66   736.67   0.00   388317.20   768716.69   N 32.066832   W 103.5993   21000.00   90.15													
19400.00   90.15   179.60   11370.60   7977.57   -7972.70   724.93   0.00   390517.10   768704.75   N 32.071485   W 103.5993   19500.00   90.15   179.60   11370.08   8177.57   -8072.70   725.62   0.00   390417.11   768706.13   N 32.070936   W 103.5993   19500.00   90.15   179.60   11368.82   8277.57   -8072.69   727.00   0.00   390217.12   768706.82   N 32.070936   W 103.5993   19500.00   90.15   179.60   11369.36   8377.57   -8372.69   727.00   0.00   390217.12   768706.82   N 32.070936   W 103.5993   19500.00   90.15   179.60   11369.30   8477.57   -8372.69   727.69   0.00   390217.12   768707.52   N 32.070386   W 103.5993   19500.00   90.15   179.60   11369.04   8577.57   -8572.69   729.07   0.00   389917.14   768708.21   N 32.070111   W 103.5993   20500.00   90.15   179.60   11368.78   8677.57   -8572.69   729.07   0.00   389917.14   768709.90   N 32.069938   W 103.5993   20500.00   90.15   179.60   11368.78   8677.57   -8572.69   729.07   0.00   389917.14   768709.90   N 32.069938   W 103.5993   20500.00   90.15   179.60   11368.78   8677.57   -8572.68   729.07   0.00   389917.14   768709.90   N 32.06961   W 103.5993   20500.00   90.15   179.60   11368.26   8877.57   -8572.68   730.45   0.00   38917.15   768710.97   N 32.069011   W 103.5993   20500.00   90.15   179.60   11368.26   8877.57   -8572.68   731.83   0.00   38917.15   768710.97   N 32.069011   W 103.5993   20500.00   90.15   179.60   11367.74   9077.57   -9072.67   733.21   0.00   389317.17   768713.35   N 32.069616   W 103.5993   20500.00   90.15   179.60   11367.48   9177.57   -9072.67   733.21   0.00   389317.17   768713.31   N 32.067637   W 103.5993   20500.00   90.15   179.60   11366.90   90.77.55   -9072.67   733.21   0.00   389317.17   768713.31   N 32.067637   W 103.5993   20500.00   90.15   179.60   11366.90   90.77.56   -9072.66   734.60   0.00   38917.16   768713.31   N 32.065637   W 103.5993   20500.00   90.15   179.60   11366.90   90.77.56   -9072.66   736.67   0.00   38917.20   768718.40   N 32.066638   W 103.5993   20500.00   90.													
19500.00   90.15   179.60   11370.08   8177.67   -8072.70   725.62   0.00   390417.10   768705.44   N32.07126   W 103.5993													
19600.00   90.15   179.60   11369.82   8277.67   -8172.70   726.31   0.00   390317.11   768706.13   N.32.070961   W.103.5993   19700.00   90.15   179.60   11369.82   8277.67   -8272.69   727.00   0.00   390217.12   768706.82   N.32.070361   W.103.5993   19900.00   90.15   179.60   11369.30   8477.57   -8372.69   727.69   0.00   390117.12   768706.82   N.32.070361   W.103.5993   727.69   0.00   390117.12   768708.21   N.32.070361   W.103.5993													
19700.00   90.15   179.60   11369.22   8277.57   -8272.69   727.00   0.00   390217.12   768706.82   N 32.070661   W 103.5993   19800.00   90.15   179.60   11369.56   8377.57   -8372.69   727.69   0.00   390117.12   768707.52   N 32.07036   W 103.5993   19900.00   90.15   179.60   11369.04   8577.57   -8472.69   728.38   0.00   390117.13   768708.21   N 32.070111   W 103.5993   100.00   90.15   179.60   11369.04   8577.57   -8572.69   729.76   0.00   389917.14   768708.90   N 32.069836   W 103.5993   20900.00   90.15   179.60   11368.26   8777.57   -8572.68   729.76   0.00   389917.14   768708.90   N 32.069836   W 103.5993   20900.00   90.15   179.60   11368.26   8777.57   -8772.68   730.45   0.00   38917.15   768710.28   N 32.069016   W 103.5993   20900.00   90.15   179.60   11368.26   8877.57   -8972.68   731.14   0.00   389517.15   768710.28   N 32.069016   W 103.5993   20900.00   90.15   179.60   11368.00   8977.57   -8972.68   731.83   0.00   389517.16   768710.97   N 32.069011   W 103.5993   20600.00   90.15   179.60   11367.74   9077.57   -9072.67   732.52   0.00   389517.16   768712.35   N 32.069012   W 103.5993   20600.00   90.15   179.60   11367.74   9077.57   -9072.67   733.21   0.00   389517.16   768712.35   N 32.069014   W 103.5993   20600.00   90.15   179.60   11367.74   9077.57   -9072.67   733.21   0.00   389317.17   768713.04   N 32.068462   W 103.5993   20600.00   90.15   179.60   11366.96   9377.56   -9372.66   734.60   0.00   389317.18   768714.42   N 32.067637   W 103.5993   20600.00   90.15   179.60   11366.96   9377.56   -9472.66   735.29   0.00   389317.18   768715.90   N 32.067637   W 103.5993   20000.00   90.15   179.60   11366.69   9377.56   -9472.66   735.29   0.00   389317.19   768715.10   N 32.067637   W 103.5993   21000.00   90.15   179.60   11365.66   9377.56   -9472.66   735.80   0.00   389317.20   768715.80   N 32.066638   W 103.5993   21000.00   90.15   179.60   11365.69   9377.56   -9472.65   738.60   0.00   388317.21   768717.81   N 32.066638   W 103.5993   21000.00   90.15													
19800.00 90.15 179.60 11369.56 8377.57 -8372.69 727.69 0.00 390117.12 768707.52 N 32.070386 W 103.5993 20000.00 90.15 179.60 11369.30 8477.57 -8472.69 728.38 0.00 39017.13 768708.21 N 32.070111 W 103.5993 20000.00 90.15 179.60 11368.76 8677.57 -8572.69 729.07 0.00 389917.14 768709.59 N 32.069561 W 103.5993 20200.00 90.15 179.60 11368.62 8777.57 -8572.68 730.45 0.00 38917.15 768710.97 N 32.069561 W 103.5993 20000.00 90.15 179.60 11368.62 8877.57 -8572.68 730.45 0.00 38917.15 768710.97 N 32.069561 W 103.5993 20000.00 90.15 179.60 11368.00 8977.57 -8872.68 731.14 0.00 389517.15 768710.97 N 32.069011 W 103.5993 20500.00 90.15 179.60 11367.74 9077.57 -8072.67 732.52 0.00 389517.16 768711.66 N 32.068737 W 103.5993 20500.00 90.15 179.60 11367.74 9077.57 -9072.67 732.52 0.00 389517.16 768711.66 N 32.068737 W 103.5993 20500.00 90.15 179.60 11367.74 9077.57 -9072.67 732.52 0.00 389517.16 768713.04 N 32.069618 W 103.5993 20500.00 90.15 179.60 11367.74 9077.57 -9072.67 732.52 0.00 389317.17 768713.04 N 32.069618 W 103.5993 20500.00 90.15 179.60 11367.22 9277.57 -9272.67 733.21 0.00 389317.18 768713.04 N 32.06762 W 103.5993 20500.00 90.15 179.60 11366.96 9377.56 -9372.66 734.60 0.00 389317.18 768713.74 N 32.067637 W 103.5993 20500.00 90.15 179.60 11366.44 9577.56 -9372.66 734.60 0.00 389317.18 768713.74 N 32.067632 W 103.5993 20500.00 90.15 179.60 11366.44 9577.56 -9372.66 735.29 0.00 389317.18 768715.11 N 32.067362 W 103.5993 2100.00 90.15 179.60 11366.44 9577.56 -9372.66 736.67 0.00 389317.18 768715.11 N 32.067362 W 103.5993 2100.00 90.15 179.60 11365.69 9377.56 -9372.66 736.67 0.00 389317.18 768715.11 N 32.067382 W 103.5993 2100.00 90.15 179.60 11365.69 9377.56 -9372.66 736.67 0.00 389317.18 768715.11 N 32.065938 W 103.5993 2100.00 90.15 179.60 11365.69 9377.56 -9372.65 738.05 0.00 389317.19 768715.11 N 32.065938 W 103.5993 2100.00 90.15 179.60 11365.69 9377.56 -9372.65 738.74 0.00 388317.22 768718.56 N 32.065938 W 103.5993 2100.00 90.15 179.60 11365.69 9377.56 -9372.65 738.74 0.00 388317.22 768718.56 N 32.065731 W 103.5													
19900.00   90.15   179.60   11369.04   8477.57   -8472.69   728.38   0.00   390017.13   768708.21   N 32.0701111   W 103.5993   20000.00   90.15   179.60   11368.78   8677.57   -8572.69   729.76   0.00   389817.14   768708.90   N 32.069365   W 103.5993   20000.00   90.15   179.60   11368.26   8877.57   -8772.68   729.76   0.00   389817.15   768710.28   N 32.069365   W 103.5993   20000.00   90.15   179.60   11368.26   8877.57   -8772.68   730.45   0.00   389817.15   768710.28   N 32.069266   W 103.5993   32.069360   W 103.5993   W													
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		∠ 1557.60	90.15	1/9.60	11305.00	10129.76	-10124.25	139.19	0.00	300305.03	100/19.01	N 3∠.0655/1	vv 103.599300
TIOU FWILI													
	I IUU' FWL]												

Survey Type:

Def Plan

Survey Error Model: Survey Program:

ISCWSA Rev 3 \*\*\* 3-D 95.000% Confidence 2.7955 sigma

_	Description	Part	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size Casi (in)	ing 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 Com 128H / Cimarex Red Hills 32-5 Fed Com
		1	22.000	21551.601	1/100.000	17.500	13.375		A001Mb_MWD	Red Hills 32-5 Fed Com 128H / Cimarex Red Hills 32-5 Fed Com

# 1. Geological Formations

TVD of target 11,365 Pilot Hole TD N/A

MD at TD 21,551 Deepest expected fresh water

Formation	Depth (TVD) from KB	Water/Mineral Bearing/Target Zone	Hazards
Rustler	934	N/A	
Top Salt	1349	N/A	
Base Salt	4651	N/A	
Lamar	4892	N/A	
Bell Canyon	4929	N/A	
Cherry Canyon	6001	N/A	
Brushy Canyon	7537	N/A	
Bone Spring	9039	N/A	
Leonard Shale	9094	N/A	
Avalon shale	9356	N/A	
1st Bone Spring Sand	10036	N/A	
2nd BSPG Carb	10223	N/A	
2nd BSPG Sand	10564	N/A	
3rd BSPG Carb	11017	N/A	
3rd BSPG Sand	11682	N/A	
Top Wolfcamp	12125	N/A	
Wolfcamp Y Sand	12225	N/A	
Wolfcamp A1	12301	N/A	

# 2. Casing Program

	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	900	900	13-3/8"	48.00	H-40	ST&C	1.90	4.44	7.45
12 1/4	0	4970	4970	9-5/8"	40.00	HCK-55	LT&C	1.43	1.48	2.82
8 3/4	0	10858	10858	7"	29.00	L-80	LT&C	1.38	1.61	1.78
8 3/4	10858	11608	11345	7"	29.00	P-110	BT&C	1.61	2.11	65.78
6	9858	21551	11365	4-1/2"	11.60	P-110	BT&C	1.43	2.01	20.99
					BLM	Minimum Sa	lfety 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 128H

	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?	Y

# 3. Cementing Program

Casing	# Sks	Wt. lb/gal	Yld ft3/sack	H2O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surface	364	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	949	12.90	1.88	9.65	12	Lead: 35:65 (Poz:C) + Salt + Bentonite
	287	14.80	1.36	6.57	9.5	Tail: Class C + Retarder
Production	<b>roduction</b> 374 10.30 3.64 22.18 Lead: Tuned Light		Lead: Tuned Light + LCM			
	125	14.80	1.36	6.57	9.5	Tail: Class C + Retarder
127 14.80 1.34 6.32		9.5	9.5 Tail: Class C + LCM			
			-			
Completion System	738	14.20	1.30	5.86 14:30 Tail: 50:50 (Poz:H)		Tail: 50:50 (Poz:H) + Salt + Bentonite + Fluid Loss + Dispersant + SMS
			-	-		

Casing String	тос	% Excess
Surface	0	42
Intermediate	0	49
Production	4770	25
Production	4770	25
Completion System	11408	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		
8 3/4	13 5/8	3M	Annular	Х	
			Blind Ram		
			Pipe Ram		3M
			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.
   X A 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.
  - N Are anchors required by manufacturer?

#### 5. Mud Program

Depth	Туре	Weight (ppg)	Viscosity	Water Loss
0' to 900'	Fresh Water	7.83 - 8.33	28	N/C
900' to 4970'	Brine Water	9.80 - 10.30	30-32	N/C
4970' to 11608'	Cut Brine or OBM	8.50 - 9.00	27-70	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	ogging, 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
Additional Logs Planned	interval

#### 7. Drilling Conditions

Condition	
BH Pressure at deepest TVD	5309 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

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 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.

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.

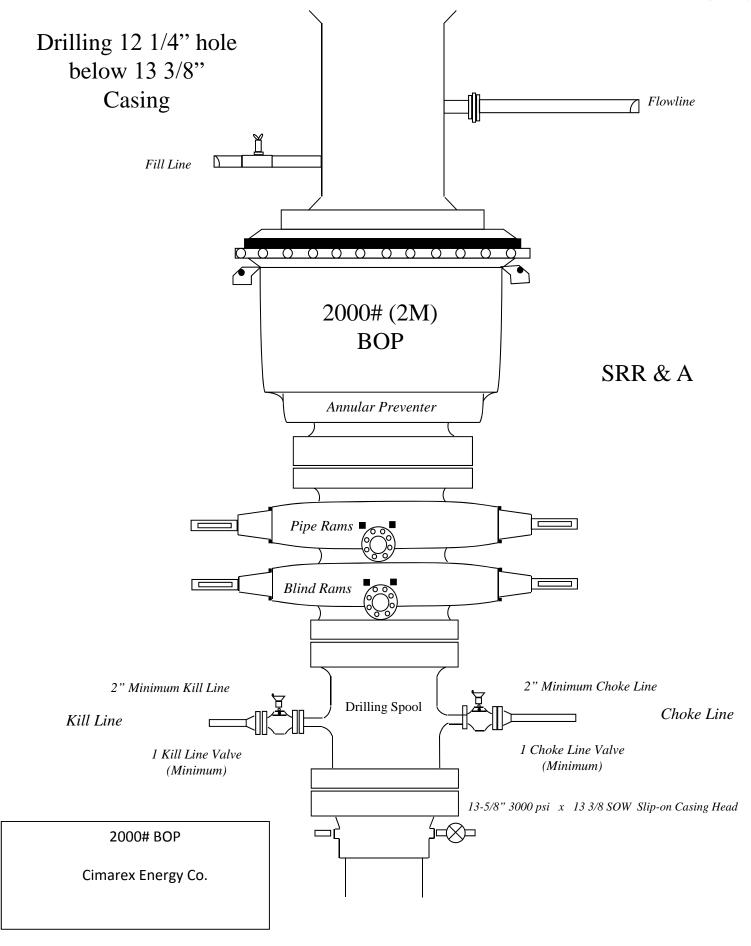
If well conditions dictate conventional slips will be set and BOPE will be tested to appropriate pressures based on permitted pressure requirements.

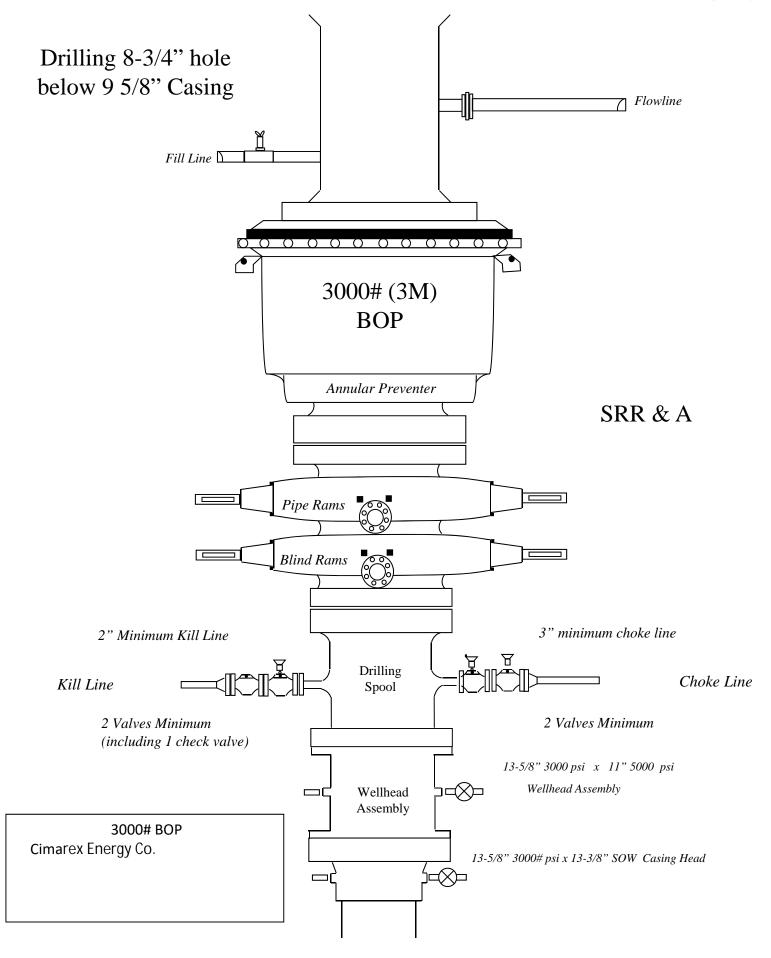
#### 10. Other Variances

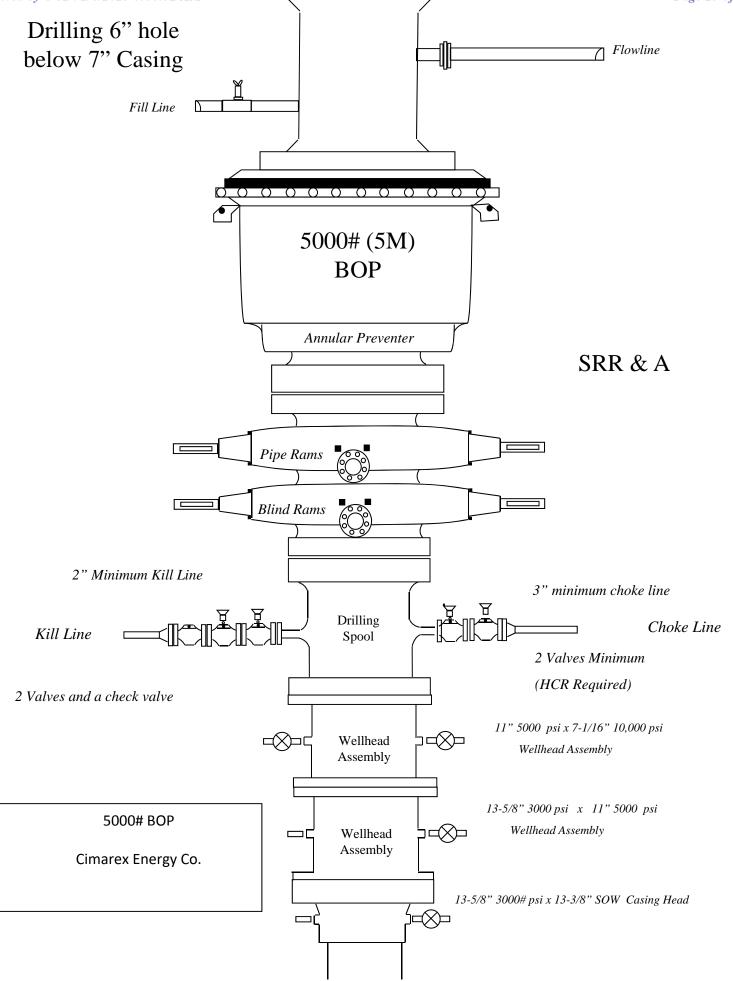
Cimarex requests to perform offline cementing. OLC procedure as follows:

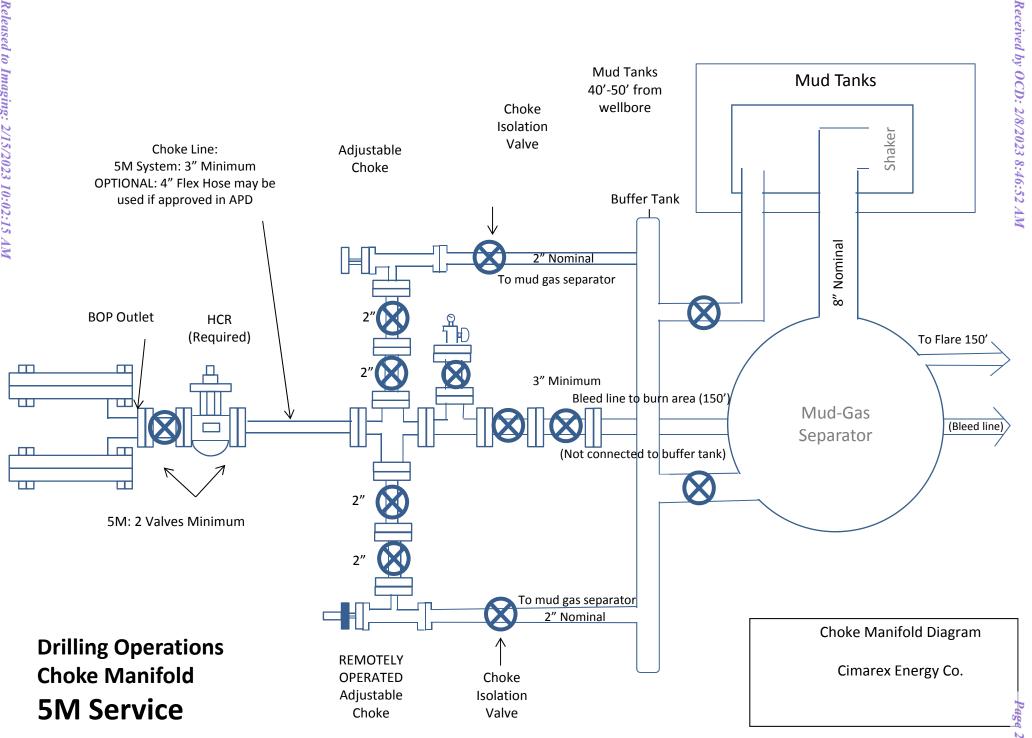
- 1.Land casing on solid body mandrel hanger. Engage packoff and lockring
- 2. Install BPV
- 3. Skid rig
- 4. Check for pressure and remove BPV
- 5. Circulate down casing, taking returns through casing valves
- 6. Pump lead and tail cement
- 7. Displace cement and bump the plug
- 8. Ensure floats are 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 128H well. Surface cement will be pumped, 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 128H well until at least 8 hours and when both tail and lead slurry reach 500psi. 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 prewelded 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 128H 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.









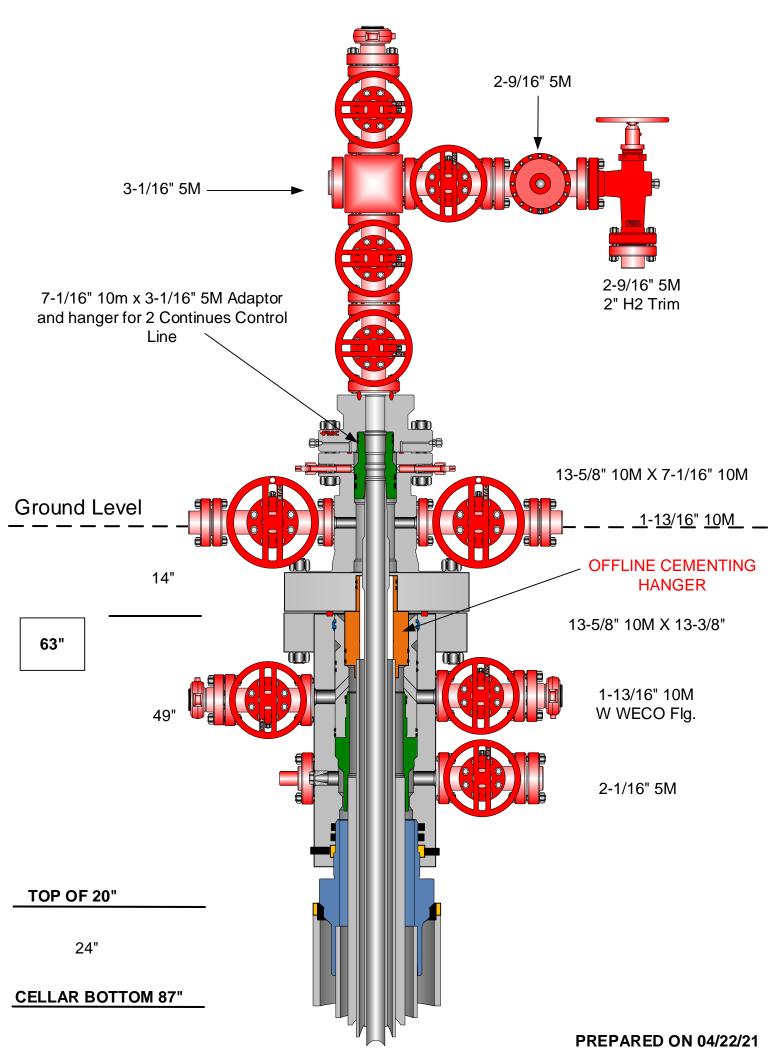


# RED HILLS 32-5 FEDERAL COM 128H

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	984	984	13-3/8"	48.00	H-40	ST&C	1.74	4.06	6.82
12 1/4	0	4852	4852	9-5/8"	40.00	HCK-55	LT&C	1.47	1.52	2.89
8 3/4	0	11021	11021	7"	29.00	L-80	LT&C	1.36	1.58	1.86
8 3/4	11787	11396	10900	7"	29.00	P-110	BT&C	1.67	2.20	(264.75)
6	10396	20708	10900	4-1/2"	11.60	P-110	BT&C	1.49	2.10	62.77
	-	-			BLM	Minimum S	afety Factor	1.125	1	1.6 Dry

CACTUS FOR SERVICE WEARBUSHING IN CASING HEAD & CASING SPOOL

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 183990

# **CONDITIONS**

Operator:	OGRID:
CIMAREX ENERGY CO.	215099
600 N. Marienfeld Street	Action Number:
Midland, TX 79701	183990
	Action Type:
	[C-103] NOI Change of Plans (C-103A)

#### CONDITIONS

Created By		Condition Date
pkautz	None	2/15/2023