

Form 3160-5
(June 2019)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2021**SUNDRY NOTICES AND REPORTS ON WELLS**
Do not use this form for proposals to drill or to re-enter an
abandoned well. Use Form 3160-3 (APD) for such proposals.

5. Lease Serial No.

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well

☐ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

3a. Address

3b. Phone No. (include area code)

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

7. If Unit of CA/Agreement, Name and/or No.

8. Well Name and No.

8H

9. API Well No.

10. Field and Pool or Exploratory Area

11. Country or Parish, State

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION				
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off	
☐ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity	
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other	
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon		
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal		

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has detennined that the site is ready for final inspection.)

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)

Title

Signature

Date

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

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

Office

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

(Instructions on page 2)

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

Additional Information

Additional Remarks

Proposed TD & TVD will be changed as follows:

From: 22,426MD, 12,300TVD

To: 23,041MD, 12,920TVD

The drilling plan will be updated to include a request for approval to perform off-line cementing and request approval to skid the rig to the new well on the pad to begin operations instead of waiting 8 hours for surface casing to harden before skidding rig. Updated multibowl, BOPs and choke diagrams attached with updated directional drilling surveys and plat.

Location of Well

0. SHL: NWNW / 330 FNL / 350 FWL / TWSP: 24S / RANGE: 32E / SECTION: 12 / LAT: 32.238545 / LONG: -103.635684 (TVD: 0 feet, MD: 0 feet)

PPP: NWNW / 2621 FNL / 330 FWL / TWSP: 24S / RANGE: 32E / SECTION: 13 / LAT: 32.2176278 / LONG: -103.6357667 (TVD: 12300 feet, MD: 19900 feet)

PPP: NWNW / 0 FNL / 330 FWL / TWSP: 24S / RANGE: 32E / SECTION: 13 / LAT: 32.2250503 / LONG: -103.6357611 (TVD: 12300 feet, MD: 17200 feet)

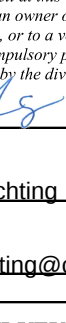
PPP: NWSW / 2621 FNL / 330 FWL / TWSP: 24S / RANGE: 32E / SECTION: 12 / LAT: 32.2321972 / LONG: -103.6357555 (TVD: 12300 feet, MD: 14600 feet)

BHL: SWSW / 100 FSL / 645 FWL / TWSP: 24S / RANGE: 32E / SECTION: 13 / LAT: 32.210686 / LONG: -103.635773 (TVD: 12920 feet, MD: 23041 feet)

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

☐ AMENDED REPORT

17 OPERATOR CERTIFICATION	
<i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i>	
 Signature	8/25/2022 Date
Kanicia Schlichting Printed Name	
kanicia.schlichting@coterra.com E-mail Address	

18 SURVEYOR CERTIFICATION	
<i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</i>	
October 18, 2017	
Date of Survey	
Signature and Seal of Professional Surveyor:	
	
Certificate Number:	
● = SURFACE HOLE LOCATION ◆ = LANDING POINT/ LPP/ FIRST TAKE POINT ○ = BOTTOM HOLE LOCATION/ LAST TAKE POINT ▲ = SECTION CORNER LOCATED △ = SECTION CORNER RE-ESTABLISHED. (Not Set on Ground.)	
NOTE: - Distances referenced on plat to section lines are perpendicular. - Basis of Bearing is a Transverse Mercator Projection with a Central Meridian of W103°53'00"	
DRAWN BY: R.J. 03-19-18 REV: 2 08-04-22 T.J.S. (WELL BORE CHANGES)	

1. Geological Formations

TVD of target 12,920

Pilot Hole TD N/A

MD at TD 23,041

Deepest expected fresh water

Formation	Depth (TVD) from KB	Water/Mineral Bearing/Target Zone	Hazards
Rustler	1185	Useable Water	
Salado (Top Salt)	1500	N/A	
Base of Salt	4650	N/A	
Delaware Sands	4920	Hydrocarbons	
Bone Spring	8815	Hydrocarbons	
1st Bone Spring Sand	9910	Hydrocarbons	
2nd Bone Spring Sand	10635	Hydrocarbons	
3rd Bone Spring Sand	11835	Hydrocarbons	
Wolfcamp	12230	Hydrocarbons	

2. Casing Program

Hole Size	Casing Depth From	Casing Depth To	Setting Depth TVD	Casing Size	Weight (lb/ft)	Grade	Conn.	SF Collapse	SF Burst	SF Tension
14 3/4	0	1235	1235	10-3/4"	40.50	J-55	BT&C	2.80	5.54	12.58
9 7/8	0	12418	12251	7-5/8"	29.70	L-80	BT&C	2.38	1.20	1.82
6 3/4	0	11793	11793	5-1/2"	20.00	P-110	LT&C	1.45	1.65	2.48
6 3/4	11793	22426	12300	5"	18.00	HCP-110	BT&C	1.68	1.70	63.55
BLM Minimum Safety 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

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

Cimarex Energy Co., Dos Equis 12-13 Federal Com 8H

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Does casing meet API specifications? If no, attach casing specification sheet.	Y
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).	Y
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
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?	N

3. Cementing Program

Casing	# Sk	Wt. lb/gal	Yld ft ³ /sack	H ₂ O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surface	480	13.50	1.72	9.15	15.5	Lead: Class C + Bentonite
	128	14.80	1.34	6.32	9.5	Tail: Class C + LCM
Intermediate Stage 1	582	10.30	3.64	22.18		Lead: Tuned Light + LCM
	207	14.20	1.30	5.86	14:30	Tail: 50:50 (Poz:H) + Salt + Bentonite + Fluid Loss + Dispersant + SMS
Intermediate Stage 2	774	12.90	1.88	9.65	12	Lead: 35:65 (Poz:C) + Salt + Bentonite
Production	968	14.20	1.30	5.86	14:30	Tail: 50:50 (Poz:H) + Salt + Bentonite + Fluid Loss + Dispersant + SMS

DV tool with possible annular casing packer as needed is proposed at a depth of +/- 4,850'.

Casing String	TOC	% Excess
Surface	0	45
Intermediate Stage 1	4850	47
Intermediate Stage 2	0	37
Production	12218	25

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	Type		Tested To
9 7/8	13 5/8	5M	Annular	X	5M
			Blind Ram		
			Pipe Ram	X	
			Double Ram	X	
			Other		
6 3/4	13 5/8	10M	Annular	X	50% of working pressure
			Blind Ram		10M
			Pipe Ram	X	
			Double Ram	X	
			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	Type	Weight (ppg)	Viscosity	Water Loss
0' to 1235'	FW Spud Mud	8.30 - 8.80	30-32	N/C
1235' to 12418'	Brine Diesel Emulsion	8.50 - 9.00	30-35	N/C
12418' to 22426'	Oil Based Mud	12.00 - 12.50	50-70	N/C

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

The Brine Emulsion is completely saturated brine fluid that ties diesel into itself to lower the weight of the fluid. The drilling fluid is completely salt saturated.

What will be used to monitor the loss or gain of fluid?	PVT/Pason/Visual Monitoring
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6. Logging and Testing Procedures

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

Additional Logs Planned	Interval
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7. Drilling Conditions

Condition	
BH Pressure at deepest TVD	7995 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	H ₂ S is present
X	H ₂ S plan is attached

8. Other Facets of Operation**9. Wellhead**

A multi-bowl wellhead system will be utilized.

After running the 10-3/4" surface casing, a 13 5/8" BOP/BOPE system with a minimum working pressure of 10000 psi will be installed on the wellhead system and will be pressure tested to 250 psi low followed by a 10000 psi test. Annular will be tested to working pressure, or a maximum test pressure of 5000 psi. The pressure test will be repeated at least every 30 days, as per Onshore Order No. 2.

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

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

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

A solid steel body pack-off will be utilized after running and cementing the intermediate casing. After installation the pack-off and lower flange will be pressure tested to 10000 psi.

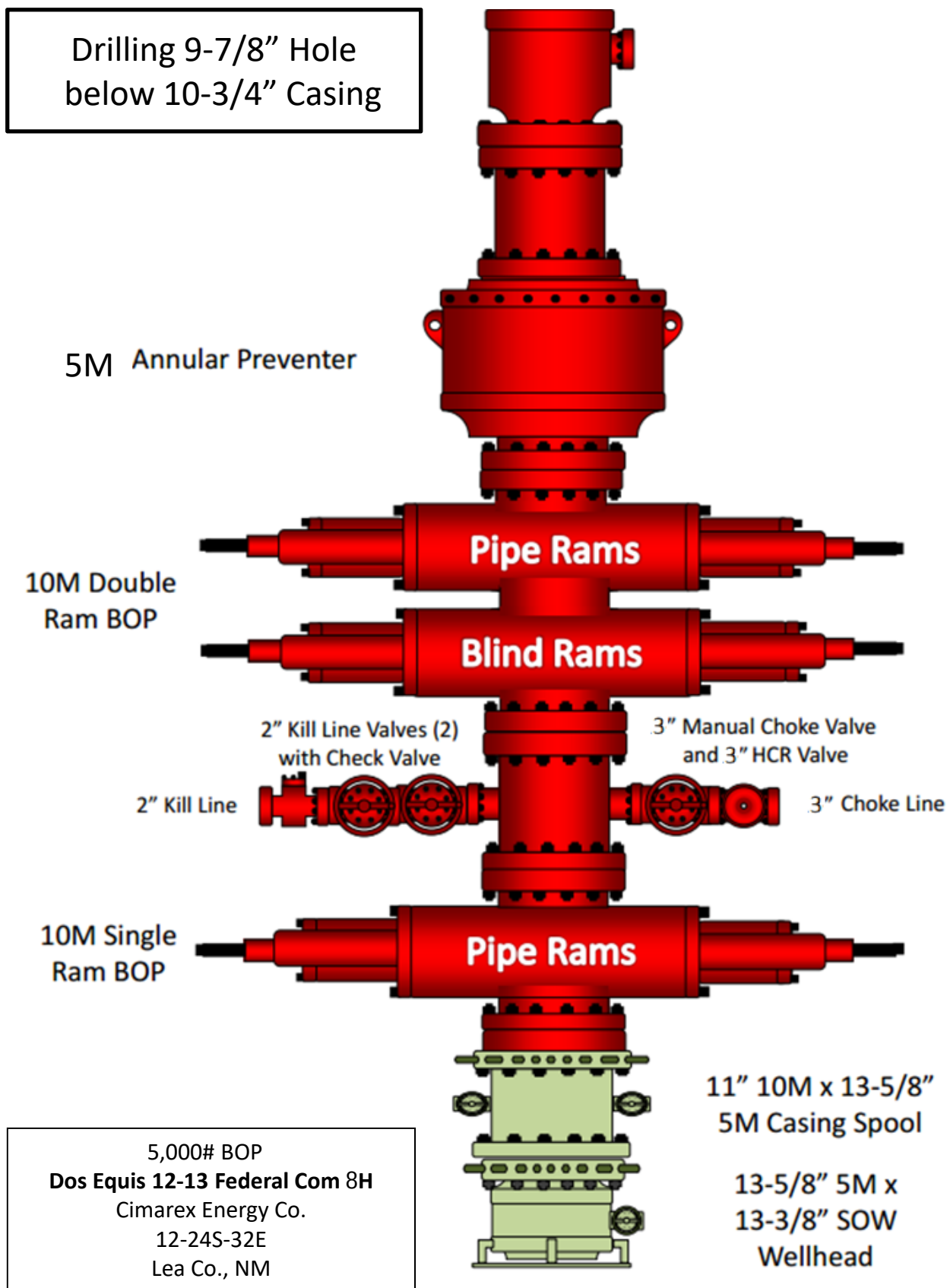
All casing strings will be tested as per Onshore Order No.2 to at least 0.22 psi/ft or 1,500 whichever is greater and not to exceed 70% of casing burst.

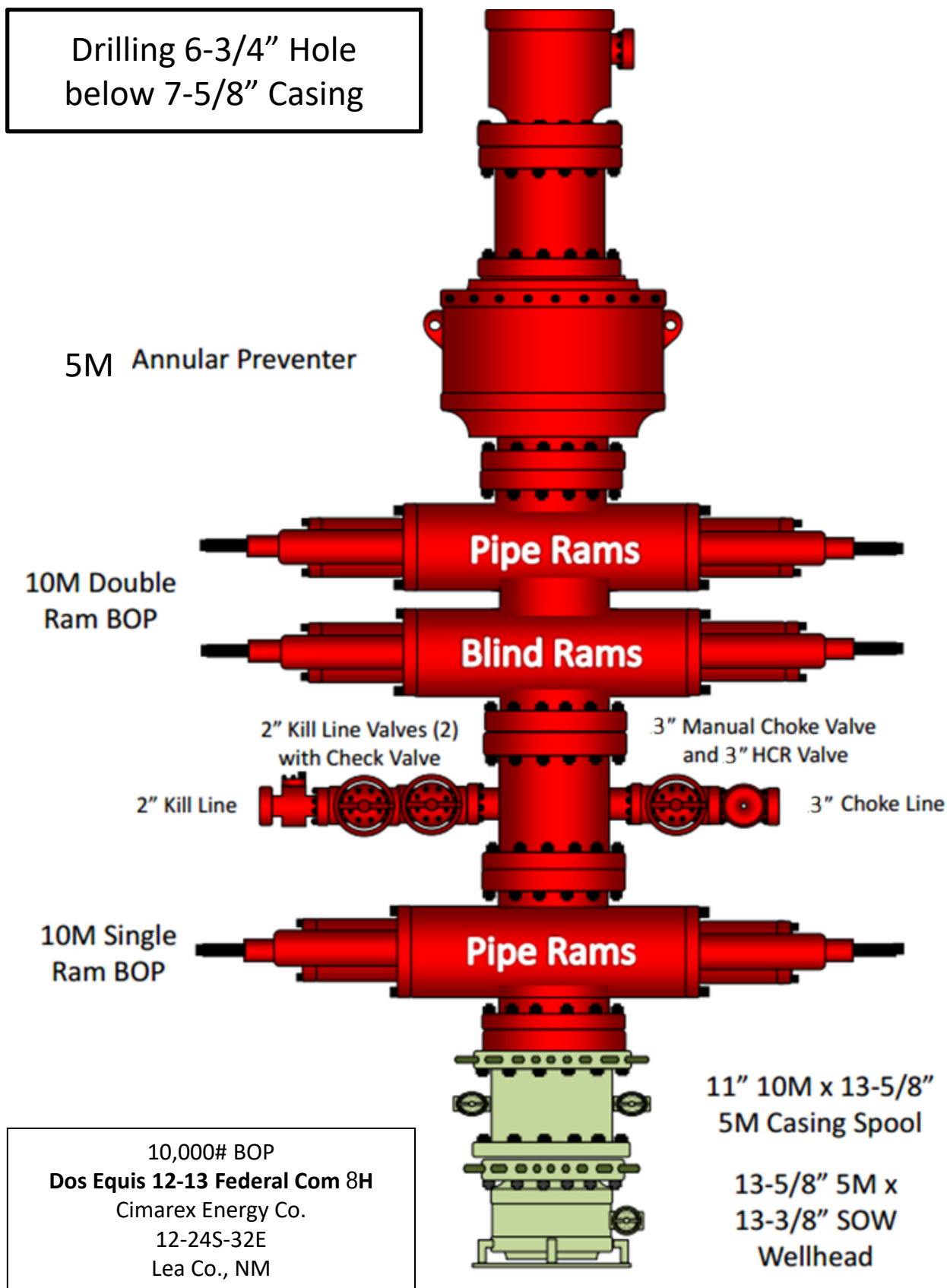
If well conditions dictate conventional slips will be set and BOPE will be tested to appropriate pressures based on permitted pressure requirements.

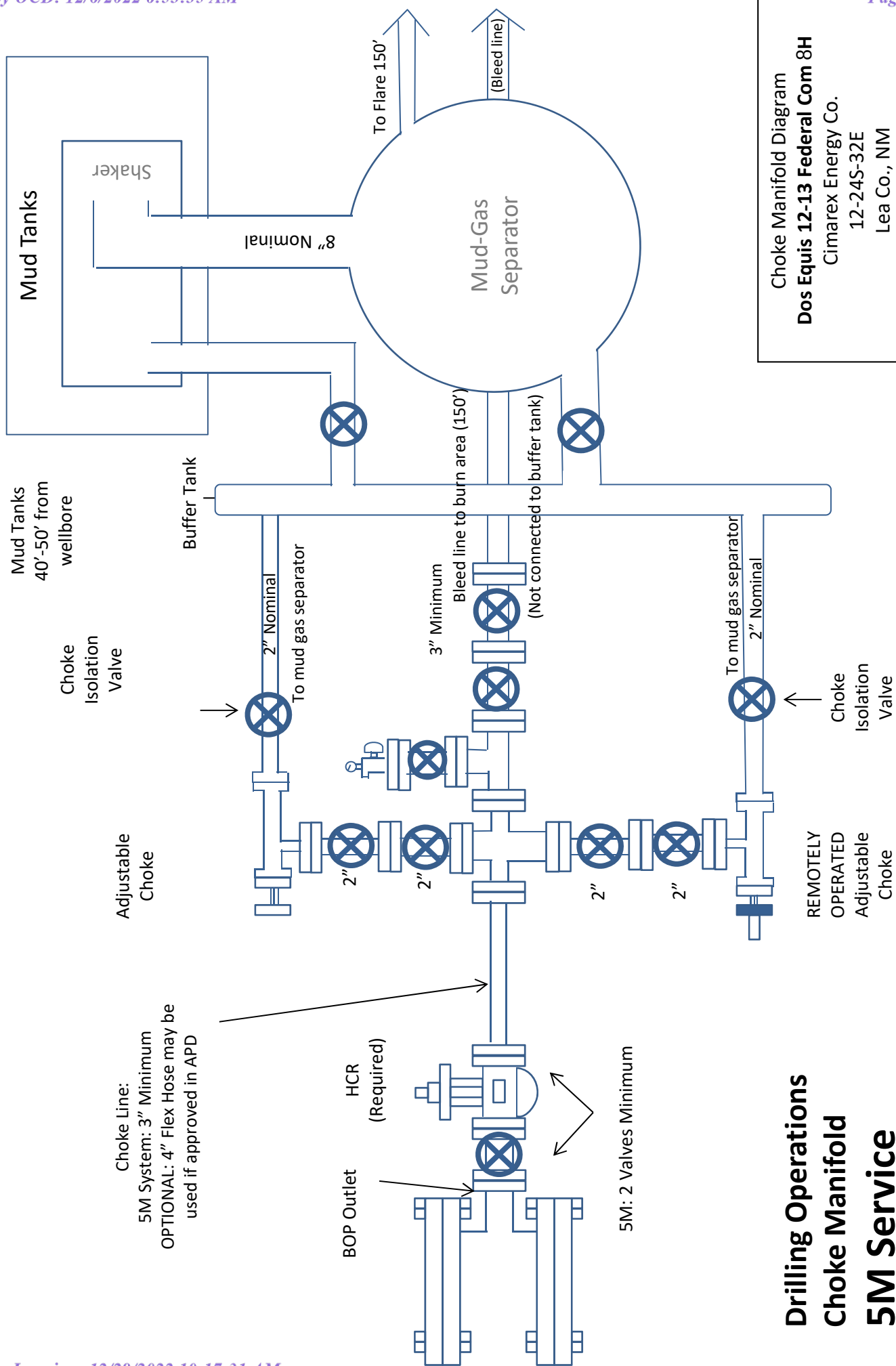
10. Other Variances

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 8H 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 8H 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 10 3/4" casing and then lowered down with and landing joint. It is then lowered down until the mandrel contacts the landing ring which is pre-welded to the conductor pipe. At this point the 10 3/4" 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 8H 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.







4" Choke Line:
OPTIONAL: 4" Flex Hose may be
used if approved in APD

BOP Outlet

3" HCR

3" Choke Valve

Adjustable
Choke

4" Choke
Isolation
Valve

3" Minimum

Pressure Gauge on
Choke Manifold

Bleed line
to pit

3"

(Not connected to buffer tank)

REMOTELY
OPERATED
Adjustable
Choke

3" Choke
Isolation
Valve

3" Minimum

Adjustable
Choke

3" Choke
Isolation
Valve

3 Minimum

Buffer Tank

Mud Tanks
40'-50' from
wellbore

Mud Tanks

Shaker

8" Nominal

Mud-Gas
Separator

To Flare

(Bleed line)

To mud gas separator

Drilling Operations Choke Manifold 10M Service

Choke Manifold Diagram
Cimarex Energy Co.
Lea Co., NM

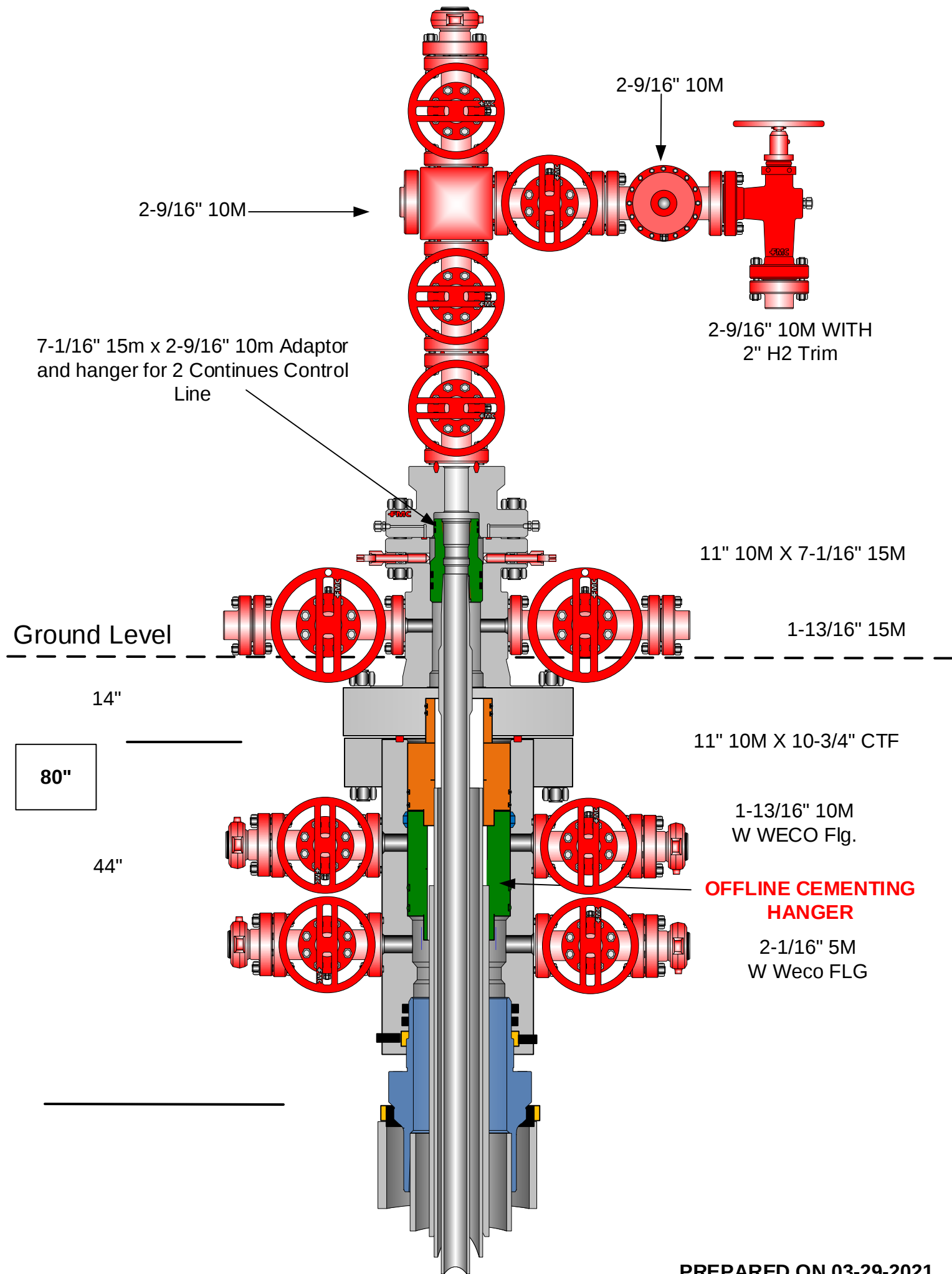
TUBULAR PROGRAM
1,005' 10-3/4" 40.5 # J55 BTC
12,008' 7-5/8" 29.7 # L-80 BTC
850' 7-5/8" 29.7 # L-80 UFJ
12,050' 5-1/2" 26# CYP110 CDCHTQ
10,612' 5" 18# CYP-110 BTC
2-7/8" L80 EUE



Dos Equis 12-13
Fed Com 8H

CACTUS FOR SERVICE
WEARBUSHING
IN CASING HEAD &
CASING SPOOL

LEA CO., NM



PREPARED ON 03-29-2021



Cimarex Dos Equis 12-13 Federal Com #8H Rev2 kFc 05Aug22 Proposal
Geodetic Report
(Def Plan)



Report Date: August 06, 2022 - 10:25 AM
Client: Cimarex Energy
Field: NM Lea County (NAD 83)
Structure / Slot: Cimarex Dos Equis 12-13 Federal Com #8H / 8H
Well: Cimarex Dos Equis 12-13 Federal Com #8H
Borehole: Cimarex Dos Equis 12-13 Federal Com #8H
UWI / API#: Unknown / Unknown
Survey Name: Cimarex Dos Equis 12-13 Federal Com #8H Rev2 kFc 05Aug22
Survey Date: December 20, 2018
Tort / AHD / DDI / ERD Ratio: 102.000 ° / 10739.545 ft / 6.291 / 0.831
Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long: N 32° 14' 18.76131", W 103° 38' 8.46295"
Location Grid N/E Y/X: N 451216.710 ftUS, E 757040.950 ftUS
CRS Grid Convergence Angle: 0.3722 °
Grid Scale Factor: 0.99996238
Version / Patch: 2.10.832.2

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 179.670 ° (Grid North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: RKB
TVD Reference Elevation: 3633.500 ft above MSL
Seabed / Ground Elevation: 3607.500 ft above MSL
Magnetic Declination: 6.328 °
Total Gravity Field Strength: 998.4378mgn (9.80665 Based)
Gravity Model: GARM
Total Magnetic Field Strength: 47574.067 nT
Magnetic Dip Angle: 59.832 °
Declination Date: August 05, 2022
Magnetic Declination Model: HDGM 2022
North Reference: Grid North
Grid Convergence Used: 0.3722 °
Total Corr Mag North->Grid North: 5.9561 °
Local Coord Referenced To: Well Head

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 °)
SHL [330° FNL, 350° FWL]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	451216.71	757040.95	N 32.238545	W 103.635684
	100.00	0.00	51.67	100.00	0.00	0.00	0.00	0.00	451216.71	757040.95	N 32.238545	W 103.635684
	200.00	0.00	51.67	200.00	0.00	0.00	0.00	0.00	451216.71	757040.95	N 32.238545	W 103.635684
	300.00	0.00	51.67	300.00	0.00	0.00	0.00	0.00	451216.71	757040.95	N 32.238545	W 103.635684
	400.00	0.00	51.67	400.00	0.00	0.00	0.00	0.00	451216.71	757040.95	N 32.238545	W 103.635684
	500.00	0.00	51.67	500.00	0.00	0.00	0.00	0.00	451216.71	757040.95	N 32.238545	W 103.635684
	600.00	0.00	51.67	600.00	0.00	0.00	0.00	0.00	451216.71	757040.95	N 32.238545	W 103.635684
	700.00	0.00	51.67	700.00	0.00	0.00	0.00	0.00	451216.71	757040.95	N 32.238545	W 103.635684
	800.00	0.00	51.67	800.00	0.00	0.00	0.00	0.00	451216.71	757040.95	N 32.238545	W 103.635684
	900.00	0.00	51.67	900.00	0.00	0.00	0.00	0.00	451216.71	757040.95	N 32.238545	W 103.635684
	1000.00	0.00	51.67	1000.00	0.00	0.00	0.00	0.00	451216.71	757040.95	N 32.238545	W 103.635684
	1100.00	0.00	51.67	1100.00	0.00	0.00	0.00	0.00	451216.71	757040.95	N 32.238545	W 103.635684
Rustler	1185.00	0.00	51.67	1185.00	0.00	0.00	0.00	0.00	451216.71	757040.95	N 32.238545	W 103.635684
	1200.00	0.00	51.67	1200.00	0.00	0.00	0.00	0.00	451216.71	757040.95	N 32.238545	W 103.635684
	1300.00	0.00	51.67	1300.00	0.00	0.00	0.00	0.00	451216.71	757040.95	N 32.238545	W 103.635684
	1400.00	0.00	51.67	1400.00	0.00	0.00	0.00	0.00	451216.71	757040.95	N 32.238545	W 103.635684
Salado (Top Salt)	1500.00	0.00	51.67	1500.00	0.00	0.00	0.00	0.00	451216.71	757040.95	N 32.238545	W 103.635684
	1600.00	0.00	51.67	1600.00	0.00	0.00	0.00	0.00	451216.71	757040.95	N 32.238545	W 103.635684
	1700.00	0.00	51.67	1700.00	0.00	0.00	0.00	0.00	451216.71	757040.95	N 32.238545	W 103.635684
Nudge, Build 2"/100ft	1800.00	0.00	51.67	1800.00	0.00	0.00	0.00	0.00	451216.71	757040.95	N 32.238545	W 103.635684
	1900.00	2.00	51.67	1899.98	-1.07	1.08	1.37	2.00	451217.79	757042.32	N 32.238548	W 103.635680
	2000.00	4.00	51.67	1999.84	-4.30	4.33	5.47	2.00	451221.04	757046.42	N 32.238557	W 103.635666
Hold	2100.01	6.00	51.67	2099.46	-9.66	9.73	12.31	2.00	451226.44	757053.26	N 32.238571	W 103.635644
	2200.00	6.00	51.67	2198.90	-16.10	16.21	20.51	0.00	451232.92	757061.46	N 32.238589	W 103.635617
	2300.00	6.00	51.67	2298.36	-22.53	22.70	28.71	0.00	451239.41	757069.66	N 32.238607	W 103.635591
	2400.00	6.00	51.67	2397.81	-28.97	29.18	36.91	0.00	451245.89	757077.86	N 32.238624	W 103.635564
	2500.00	6.00	51.67	2497.26	-35.40	35.66	45.11	0.00	451252.37	757086.06	N 32.238642	W 103.635538
	2600.00	6.00	51.67	2596.71	-41.84	42.14	53.31	0.00	451258.85	757094.26	N 32.238660	W 103.635511
	2700.00	6.00	51.67	2696.16	-48.27	48.63	61.52	0.00	451265.33	757102.46	N 32.238677	W 103.635484
	2800.00	6.00	51.67	2795.62	-54.71	55.11	69.72	0.00	451271.82	757110.66	N 32.238695	W 103.635458
	2900.00	6.00	51.67	2895.07	-61.14	61.59	77.92	0.00	451278.30	757118.86	N 32.238713	W 103.635431
	3000.00	6.00	51.67	2994.52	-67.58	68.07	86.12	0.00	451284.78	757127.06	N 32.238730	W 103.635404
	3100.00	6.00	51.67	3093.97	-74.01	74.55	94.32	0.00	451291.26	757135.26	N 32.238748	W 103.635378
	3200.00	6.00	51.67	3193.43	-80.44	81.04	102.52	0.00	451297.74	757143.46	N 32.238766	W 103.635351
	3300.00	6.00	51.67	3292.88	-86.88	87.52	110.72	0.00	451304.23	757151.66	N 32.238783	W 103.635324
	3400.00	6.00	51.67	3392.33	-93.31	94.00	118.92	0.00	451310.71	757159.86	N 32.238801	W 103.635298
	3500.00	6.00	51.67	3491.78	-99.75	100.48	127.12	0.00	451317.19	757168.06	N 32.238819	W 103.635271
	3600.00	6.00	51.67	3591.23	-106.18	106.97	135.32	0.00	451323.67	757176.26	N 32.238836	W 103.635244
	3700.00	6.00	51.67	3690.69	-112.62	113.45	143.52	0.00	451330.15	757184.46	N 32.238854	W 103.635218
	3800.00	6.00	51.67	3790.14	-119.05	119.93	151.72	0.00	451336.64	757192.67	N 32.238872	W 103.635191
	3900.00	6.00	51.67	3889.59	-125.49	126.41	159.92	0.00	451343.12	757200.87	N 32.238889	W 103.635164
	4000.00	6.00	51.67	3989.04	-131.92	132.89	168.12	0.00	451349.60	757209.07	N 32.238907	W 103.635138
	4100.00	6.00	51.67	4088.50	-138.36	139.38	176.32	0.00	451356.08	757217.27	N 32.238925	W 103.635111
	4200.00	6.00	51.67	4187.95	-144.79	145.86	184.52	0.00	451362.56	757225.47	N 32.238942	W 103.635084
	4300.00	6.00	51.67	4287.40	-151.23	152.34	192.72	0.00	451369.05	757233.67	N 32.238960	W 103.635058
	4400.00	6.00	51.67	4386.85	-157.66	158.82	200.92	0.00	451375.53	757241.87	N 32.238978	W 103.635031
	4500.00	6.00	51.67	4486.30	-164.10	165.31	209.13	0.00	451382.01	757250.07	N 32.238995	W 103.635004
	4600.00	6.00	51.67	4585.76	-170.53	171.79	217.33	0.00	451388.49	757258.27	N 32.239013	W 103.634978
Base of Salt	4664.60	6.00	51.67	4650.00	-174.69	175.98	222.62	0.00	451392.68	757263.56	N 32.239025	W 103.634960
	4700.00	6.00	51.67	4685.21	-176.97	178.27	225.53	0.00	451394.97	757266.47	N 32.239031	W 103.634951
	4800.00	6.00	51.67	4784.66	-183.40	184.75	233.73	0.00	451401.46	757274.67	N 32.239048	W 103.634924
	4900.00	6.00	51.67	4884.11	-189.84	191.24	241.93	0.00	451407.94	757282.87	N 32.239066	W 103.634898
Delaware Sands	4936.09	6.00	51.67	4920.00	-192.16	193.57	244.89	0.00	451410.28	757285.83	N 32.239072	W 103.634888
	5000.00	6.00	51.67	4983.56	-196.27	197.72	250.13	0.00	451414.42	757291.07	N 32.239084	W 103.634871
	5100.00	6.00	51.67	5083.02	-202.71	204.20	258.33	0.00	451420.90	757299.27	N 32.239101	W 103.634844
	5200.00	6.00	51.67	5182.47	-209.14	210.68	266.53	0.00	451427.38	757307.47	N 32.239119	W 103.634818
	5300.00	6.00	51.67	5281.92	-215.58	217.16	274.73	0.00	451433.87	757315.67	N 32.239137	W 103.634791
	5380.58	6.00	51.67	5362.06	-220.76	222.39	281.34	0.00	451439.09	757322.28	N 32.239151	W 103.634770
	5400.00	5.61	51.67	5381.38	-221.97	223.61	282.88	2.00	451440.31	757323.82	N 32.239154	W 103.634765
	5500.00	3.61	51.67	5481.05	-226.92	228.59	289.19	2.00	451445.29	757330.12	N 32.239168	W 103.634744
	5600.00	1.61	51.67	5580.94	-229.73	231.42	292.76	2.00	451448.12	757333.70	N 32.239176	W 103.634733
	5680.59	0.00	51.67	5661.52	-230.42	232.12	293.65	2.00	451448.82	757334.59	N 32.239178	W 103.634730
	5700.00	0.00	51.67	5680.93	-230.42	232.12	293.65	0.00	451448.82	757334.59	N 32.239178	W 103.634730
	5800.00	0.00	51.67	5780.93	-230.42	232.12	293.65	0.00	451448.82	757334.59	N 32.239178	W 103.634730
	5900.00	0.00	51.67	5880.93	-230.42	232.12	293.65	0.00	451448.82	757334.59	N 32.239178	W 103.634730
	6000.00	0.00	51.67	5980.93	-230.42	232.12	293.65	0.00	451448.82	757334.59	N 32.239178	W 103.634730
	6100.00	0.00	51.67	6080.93	-230.42	232.12	293.65	0.00	451448.82	757334.59	N 32.239178	W 103.634730
	6200.00	0.00	51.67	6180.93	-230.42	232.12	293.65	0.00	451448.82	757334.59	N 32.239178	W 103.634730
	6300.00	0.00	51.67	6280.93	-230.42	232.12	293.65	0.00	451448.82	757334.59	N 32.239178	W 103.634730
	6400.00	0.00	51.67	6380.93	-230.42	232.12	293.65	0.00	451448.82	757334.59	N 32.239178	W 103.634730
	6500.00	0.00	51.67	6480.93	-230.42	232.12	293.65	0.00	451448.82	757334.59	N 32.239178	W 103.634730
	6600.00	0.00	51.67	6580.93	-230.42	232.12	293.65	0.00	451448.82	757334.59	N 32.239178	W 103.634730
	6700.00	0.00	51.67	6680.93	-230.42	232.12	293.65	0.00	451448.82	757334.59	N 32.239178	W 103.634730
	6800.00	0.00	51.67	6780.93	-230.42	232.12	293.65	0.00	451448.82	757334.59	N 32.239178	W 103.634730

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	0.00	51.67	6880.93	-230.42	232.12	293.65	0.00	451448.82	757334.59	N 32.239178	W 103.634730
	7000.00	0.00	51.67	6980.93	-230.42	232.12	293.65	0.00	451448.82	757334.59	N 32.239178	W 103.634730
	7100.00	0.00	51.67	7080.93	-230.42	232.12	293.65	0.00	451448.82	757334.59	N 32.239178	W 103.634730
	7200.00	0.00	51.67	7180.93	-230.42	232.12	293.65	0.00	451448.82	757334.59	N 32.239178	W 103.634730
	7300.00	0.00	51.67	7280.93	-230.42	232.12	293.65	0.00	451448.82	757334.59	N 32.239178	W 103.634730
	7400.00	0.00	51.67	7380.93	-230.42	232.12	293.65	0.00	451448.82	757334.59	N 32.239178	W 103.634730
	7500.00	0.00	51.67	7480.93	-230.42	232.12	293.65	0.00	451448.82	757334.59	N 32.239178	W 103.634730
	7600.00	0.00	51.67	7580.93	-230.42	232.12	293.65	0.00	451448.82	757334.59	N 32.239178	W 103.634730
	7700.00	0.00	51.67	7680.93	-230.42	232.12	293.65	0.00	451448.82	757334.59	N 32.239178	W 103.634730
	7800.00	0.00	51.67	7780.93	-230.42	232.12	293.65	0.00	451448.82	757334.59	N 32.239178	W 103.634730
	7900.00	0.00	51.67	7880.93	-230.42	232.12	293.65	0.00	451448.82	757334.59	N 32.239178	W 103.634730
	8000.00	0.00	51.67	7980.93	-230.42	232.12	293.65	0.00	451448.82	757334.59	N 32.239178	W 103.634730
	8100.00	0.00	51.67	8080.93	-230.42	232.12	293.65	0.00	451448.82	757334.59	N 32.239178	W 103.634730
	8200.00	0.00	51.67	8180.93	-230.42	232.12	293.65	0.00	451448.82	757334.59	N 32.239178	W 103.634730
	8300.00	0.00	51.67	8280.93	-230.42	232.12	293.65	0.00	451448.82	757334.59	N 32.239178	W 103.634730
	8400.00	0.00	51.67	8380.93	-230.42	232.12	293.65	0.00	451448.82	757334.59	N 32.239178	W 103.634730
	8500.00	0.00	51.67	8480.93	-230.42	232.12	293.65	0.00	451448.82	757334.59	N 32.239178	W 103.634730
	8600.00	0.00	51.67	8580.93	-230.42	232.12	293.65	0.00	451448.82	757334.59	N 32.239178	W 103.634730
	8700.00	0.00	51.67	8680.93	-230.42	232.12	293.65	0.00	451448.82	757334.59	N 32.239178	W 103.634730
	8800.00	0.00	51.67	8780.93	-230.42	232.12	293.65	0.00	451448.82	757334.59	N 32.239178	W 103.634730
Bone Spring	8834.07	0.00	51.67	8815.00	-230.42	232.12	293.65	0.00	451448.82	757334.59	N 32.239178	W 103.634730
	8900.00	0.00	51.67	8880.93	-230.42	232.12	293.65	0.00	451448.82	757334.59	N 32.239178	W 103.634730
	9000.00	0.00	51.67	8980.93	-230.42	232.12	293.65	0.00	451448.82	757334.59	N 32.239178	W 103.634730
	9100.00	0.00	51.67	9080.93	-230.42	232.12	293.65	0.00	451448.82	757334.59	N 32.239178	W 103.634730
	9200.00	0.00	51.67	9180.93	-230.42	232.12	293.65	0.00	451448.82	757334.59	N 32.239178	W 103.634730
	9300.00	0.00	51.67	9280.93	-230.42	232.12	293.65	0.00	451448.82	757334.59	N 32.239178	W 103.634730
	9400.00	0.00	51.67	9380.93	-230.42	232.12	293.65	0.00	451448.82	757334.59	N 32.239178	W 103.634730
	9500.00	0.00	51.67	9480.93	-230.42	232.12	293.65	0.00	451448.82	757334.59	N 32.239178	W 103.634730
	9600.00	0.00	51.67	9580.93	-230.42	232.12	293.65	0.00	451448.82	757334.59	N 32.239178	W 103.634730
	9700.00	0.00	51.67	9680.93	-230.42	232.12	293.65	0.00	451448.82	757334.59	N 32.239178	W 103.634730
	9800.00	0.00	51.67	9780.93	-230.42	232.12	293.65	0.00	451448.82	757334.59	N 32.239178	W 103.634730
	9900.00	0.00	51.67	9880.93	-230.42	232.12	293.65	0.00	451448.82	757334.59	N 32.239178	W 103.634730
1st Bone Spring Sand	9929.07	0.00	51.67	9910.00	-230.42	232.12	293.65	0.00	451448.82	757334.59	N 32.239178	W 103.634730
	10000.00	0.00	51.67	9980.93	-230.42	232.12	293.65	0.00	451448.82	757334.59	N 32.239178	W 103.634730
	10100.00	0.00	51.67	10080.93	-230.42	232.12	293.65	0.00	451448.82	757334.59	N 32.239178	W 103.634730
	10200.00	0.00	51.67	10180.93	-230.42	232.12	293.65	0.00	451448.82	757334.59	N 32.239178	W 103.634730
	10300.00	0.00	51.67	10280.93	-230.42	232.12	293.65	0.00	451448.82	757334.59	N 32.239178	W 103.634730
	10400.00	0.00	51.67	10380.93	-230.42	232.12	293.65	0.00	451448.82	757334.59	N 32.239178	W 103.634730
	10500.00	0.00	51.67	10480.93	-230.42	232.12	293.65	0.00	451448.82	757334.59	N 32.239178	W 103.634730
	10600.00	0.00	51.67	10580.93	-230.42	232.12	293.65	0.00	451448.82	757334.59	N 32.239178	W 103.634730
2nd Bone Spring Sand	10654.07	0.00	51.67	10635.00	-230.42	232.12	293.65	0.00	451448.82	757334.59	N 32.239178	W 103.634730
	10700.00	0.00	51.67	10680.93	-230.42	232.12	293.65	0.00	451448.82	757334.59	N 32.239178	W 103.634730
	10800.00	0.00	51.67	10780.93	-230.42	232.12	293.65	0.00	451448.82	757334.59	N 32.239178	W 103.634730
	10900.00	0.00	51.67	10880.93	-230.42	232.12	293.65	0.00	451448.82	757334.59	N 32.239178	W 103.634730
	11000.00	0.00	51.67	10980.93	-230.42	232.12	293.65	0.00	451448.82	757334.59	N 32.239178	W 103.634730
	11100.00	0.00	51.67	11080.93	-230.42	232.12	293.65	0.00	451448.82	757334.59	N 32.239178	W 103.634730
3rd Bone Spring Carb	11104.07	0.00	51.67	11085.00	-230.42	232.12	293.65	0.00	451448.82	757334.59	N 32.239178	W 103.634730
	11200.00	0.00	51.67	11180.93	-230.42	232.12	293.65	0.00	451448.82	757334.59	N 32.239178	W 103.634730
	11300.00	0.00	51.67	11280.93	-230.42	232.12	293.65	0.00	451448.82	757334.59	N 32.239178	W 103.634730
	11400.00	0.00	51.67	11380.93	-230.42	232.12	293.65	0.00	451448.82	757334.59	N 32.239178	W 103.634730
	11500.00	0.00	51.67	11480.93	-230.42	232.12	293.65	0.00	451448.82	757334.59	N 32.239178	W 103.634730
	11600.00	0.00	51.67	11580.93	-230.42	232.12	293.65	0.00	451448.82	757334.59	N 32.239178	W 103.634730
	11700.00	0.00	51.67	11680.93	-230.42	232.12	293.65	0.00	451448.82	757334.59	N 32.239178	W 103.634730
	11800.00	0.00	51.67	11780.93	-230.42	232.12	293.65	0.00	451448.82	757334.59	N 32.239178	W 103.634730
3rd Bone Spring Sand	11854.07	0.00	51.67	11835.00	-230.42	232.12	293.65	0.00	451448.82	757334.59	N 32.239178	W 103.634730
	11900.00	0.00	51.67	11880.93	-230.42	232.12	293.65	0.00	451448.82	757334.59	N 32.239178	W 103.634730
	12000.00	0.00	51.67	11980.93	-230.42	232.12	293.65	0.00	451448.82	757334.59	N 32.239178	W 103.634730
	12100.00	0.00	51.67	12080.93	-230.42	232.12	293.65	0.00	451448.82	757334.59	N 32.239178	W 103.634730
	12200.00	0.00	51.67	12180.93	-230.42	232.12	293.65	0.00	451448.82	757334.59	N 32.239178	W 103.634730
Wolfcamp	12264.07	0.00	51.67	12245.00	-230.42	232.12	293.65	0.00	451448.82	757334.59	N 32.239178	W 103.634730
	12300.00	0.00	51.67	12280.93	-230.42	232.12	293.65	0.00	451448.82	757334.59	N 32.239178	W 103.634730
KOP, Build 10"/100ft Wolfcamp XY Target	12346.59	0.00	51.67	12327.52	-230.42	232.12	293.65	0.00	451448.82	757334.59	N 32.239178	W 103.634730
	12384.10	3.75	179.67	12365.00	-229.20	230.89	293.66	10.00	451447.59	757334.60	N 32.239174	W 103.634730
	12400.00	5.34	179.67	12380.85	-227.94	229.63	293.66	10.00	451446.33	757334.60	N 32.239171	W 103.634730
Wolfcamp A1	12490.58	14.40	179.67	12470.00	-212.43	214.12	293.75	10.00	451430.82	757334.69	N 32.239128	W 103.634730
	12500.00	15.34	179.67	12479.10	-210.01	211.70	293.77	10.00	451428.41	757334.71	N 32.239121	W 103.634730
	12600.00	25.34	179.67	12572.75	-175.29	176.99	293.97	10.00	451393.69	757334.91	N 32.239026	W 103.634730
	12700.00	35.34	179.67	12658.94	-124.84	126.54	294.26	10.00	451343.24	757335.20	N 32.238887	W 103.634730
	12800.00	45.34	179.67	12735.07	-60.19	61.89	294.63	10.00	451278.60	757335.57	N 32.238710	W 103.634730
	12900.00	55.34	179.67	12798.81	16.70	-15.00	295.07	10.00	451201.71	757336.01	N 32.238498	W 103.634730
	13000.00	65.34	179.67	12848.23	103.49	-101.79	295.57	10.00	451114.93	757336.51	N 32.238260	W 103.634730
Build 5"/100ft	13096.59	75.00	179.67	12880.95	194.24	-192.54	296.10	10.00	451024.18	757337.03	N 32.238010	W 103.634731
	13100.00	75.17	179.67	12881.83	197.54	-195.83	296.11	5.00	451020.88	757337.05	N 32.238001	W 103.634731
	13200.00	80.17	179.67	12903.18	295.20	-293.50	296.68	5.00	450923.23	757337.62	N 32.237733	W 103.634731
	13300.00	85.17	179.67	12915.93	394.35	-392.65	297.25	5.00	450824.08	757338.19	N 32.237460	W 103.634731
Landing Point	13396.59	90.00	179.67	12920.00	490.83	-489.12	297.80	5.00	450727.61	757338.74	N 32.237195	W 103.634731
	13400.00	90.00	179.67	12920.00	494.24	-492.53	297.82	0.00	450724.20	757338.76	N 32.237186	W 103.634731
	13500.00	90.00	179.67	12920.00	594.24	-592.53	29					

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 °)
Section 12-13 Line NMNM0002889 exit to NMNM0553548 enter Lease Crossing	15600.00	90.00	179.67	12920.00	2694.24	-2692.49	310.49	0.00	448524.32	757351.43	N 32.231139	W 103.634737
	15700.00	90.00	179.67	12920.00	2794.24	-2792.49	311.07	0.00	448424.33	757352.00	N 32.230864	W 103.634737
	15800.00	90.00	179.67	12920.00	2894.24	-2892.49	311.64	0.00	448324.33	757352.58	N 32.230589	W 103.634737
	15900.00	90.00	179.67	12920.00	2994.24	-2992.49	312.22	0.00	448224.34	757353.16	N 32.230314	W 103.634737
	16000.00	90.00	179.67	12920.00	3094.24	-3092.49	312.79	0.00	448124.35	757353.73	N 32.230039	W 103.634738
	16100.00	90.00	179.67	12920.00	3194.24	-3192.48	313.37	0.00	448024.35	757354.31	N 32.229764	W 103.634738
	16200.00	90.00	179.67	12920.00	3294.24	-3292.48	313.95	0.00	447924.36	757354.88	N 32.229490	W 103.634738
	16300.00	90.00	179.67	12920.00	3394.24	-3392.48	314.52	0.00	447824.36	757355.46	N 32.229215	W 103.634738
	16400.00	90.00	179.67	12920.00	3494.24	-3492.48	315.10	0.00	447724.37	757356.04	N 32.228940	W 103.634739
	16500.00	90.00	179.67	12920.00	3594.24	-3592.48	315.67	0.00	447624.37	757356.61	N 32.228665	W 103.634739
	16600.00	90.00	179.67	12920.00	3694.24	-3692.48	316.25	0.00	447524.38	757357.19	N 32.228390	W 103.634739
	16700.00	90.00	179.67	12920.00	3794.24	-3792.47	316.82	0.00	447424.39	757357.76	N 32.228115	W 103.634739
	16800.00	90.00	179.67	12920.00	3894.24	-3892.47	317.40	0.00	447324.39	757358.34	N 32.227840	W 103.634740
	16900.00	90.00	179.67	12920.00	3994.24	-3992.47	317.98	0.00	447224.40	757358.91	N 32.227565	W 103.634740
	17000.00	90.00	179.67	12920.00	4094.24	-4092.47	318.55	0.00	447124.40	757359.49	N 32.227291	W 103.634740
	17100.00	90.00	179.67	12920.00	4194.24	-4192.47	319.13	0.00	447024.41	757360.07	N 32.227016	W 103.634740
	17200.00	90.00	179.67	12920.00	4294.24	-4292.47	319.70	0.00	446924.41	757360.64	N 32.226741	W 103.634741
	17300.00	90.00	179.67	12920.00	4394.24	-4392.46	320.28	0.00	446824.42	757361.22	N 32.226466	W 103.634741
	17400.00	90.00	179.67	12920.00	4494.24	-4492.46	320.86	0.00	446724.42	757361.79	N 32.226191	W 103.634741
	17500.00	90.00	179.67	12920.00	4594.24	-4592.46	321.43	0.00	446624.43	757362.37	N 32.225916	W 103.634741
17600.00	90.00	179.67	12920.00	4694.24	-4692.46	322.01	0.00	446524.44	757362.94	N 32.225641	W 103.634741	
17700.00	90.00	179.67	12920.00	4794.24	-4792.46	322.58	0.00	446424.44	757363.52	N 32.225367	W 103.634742	
17800.00	90.00	179.67	12920.00	4894.24	-4892.46	323.16	0.00	446324.45	757364.10	N 32.225092	W 103.634742	
Section 12-13 Line NMNM0002889 exit to NMNM0553548 enter Lease Crossing	17872.45	90.00	179.67	12920.00	4966.69	-4964.91	323.58	0.00	446252.00	757364.51	N 32.224893	W 103.634742
NMNM0553548 exit to NMNM0553642 enter Lease Crossing	17900.00	90.00	179.67	12920.00	4994.24	-4992.46	323.73	0.00	446224.45	757364.67	N 32.224817	W 103.634742
	18000.00	90.00	179.67	12920.00	5094.24	-5092.45	324.31	0.00	446124.46	757365.25	N 32.224542	W 103.634742
	18100.00	90.00	179.67	12920.00	5194.24	-5192.45	324.89	0.00	446024.46	757365.82	N 32.224267	W 103.634743
	18200.00	90.00	179.67	12920.00	5294.24	-5292.45	325.46	0.00	445924.47	757366.40	N 32.223992	W 103.634743
	18300.00	90.00	179.67	12920.00	5394.24	-5392.45	326.04	0.00	445824.48	757366.97	N 32.223717	W 103.634743
	18400.00	90.00	179.67	12920.00	5494.24	-5492.45	326.61	0.00	445724.48	757367.55	N 32.223442	W 103.634743
	18500.00	90.00	179.67	12920.00	5594.24	-5592.45	327.19	0.00	445624.49	757368.13	N 32.223168	W 103.634744
	18600.00	90.00	179.67	12920.00	5694.24	-5692.44	327.77	0.00	445524.49	757368.70	N 32.222893	W 103.634744
	18700.00	90.00	179.67	12920.00	5794.24	-5792.44	328.34	0.00	445424.50	757369.28	N 32.222618	W 103.634744
	18800.00	90.00	179.67	12920.00	5894.24	-5892.44	328.92	0.00	445324.50	757369.85	N 32.222343	W 103.634744
	18900.00	90.00	179.67	12920.00	5994.24	-5992.44	329.49	0.00	445224.51	757370.43	N 32.222068	W 103.634745
	19000.00	90.00	179.67	12920.00	6094.24	-6092.44	330.07	0.00	445124.51	757371.01	N 32.221793	W 103.634745
	19100.00	90.00	179.67	12920.00	6194.24	-6192.44	330.64	0.00	445024.52	757371.58	N 32.221518	W 103.634745
	19200.00	90.00	179.67	12920.00	6294.24	-6292.43	331.22	0.00	444924.53	757372.16	N 32.221244	W 103.634745
	19300.00	90.00	179.67	12920.00	6394.24	-6392.43	331.80	0.00	444824.53	757372.73	N 32.220969	W 103.634746
	19400.00	90.00	179.67	12920.00	6494.24	-6492.43	332.37	0.00	444724.54	757373.31	N 32.220694	W 103.634746
	19500.00	90.00	179.67	12920.00	6594.24	-6592.43	332.95	0.00	444624.54	757373.88	N 32.220419	W 103.634746
	19600.00	90.00	179.67	12920.00	6694.24	-6692.43	333.52	0.00	444524.55	757374.46	N 32.220144	W 103.634746
	19700.00	90.00	179.67	12920.00	6794.24	-6792.43	334.10	0.00	444424.55	757375.04	N 32.219869	W 103.634747
	19800.00	90.00	179.67	12920.00	6894.24	-6892.42	334.67	0.00	444324.56	757375.61	N 32.219594	W 103.634747
19900.00	90.00	179.67	12920.00	6994.24	-6992.42	335.25	0.00	444224.57	757376.19	N 32.219320	W 103.634747	
20000.00	90.00	179.67	12920.00	7094.24	-7092.42	335.83	0.00	444124.57	757376.76	N 32.219045	W 103.634747	
20100.00	90.00	179.67	12920.00	7194.24	-7192.42	336.40	0.00	444024.58	757377.34	N 32.218770	W 103.634747	
20200.00	90.00	179.67	12920.00	7294.24	-7292.42	336.98	0.00	443924.58	757377.91	N 32.218495	W 103.634748	
20300.00	90.00	179.67	12920.00	7394.24	-7392.42	337.55	0.00	443824.59	757378.49	N 32.218220	W 103.634748	
20400.00	90.00	179.67	12920.00	7494.24	-7492.41	338.13	0.00	443724.59	757379.07	N 32.217945	W 103.634748	
NMNM0553548 exit to NMNM0553642 enter Lease Crossing	20499.21	90.00	179.67	12920.00	7593.44	-7591.62	338.70	0.00	443625.39	757379.64	N 32.217672	W 103.634748
NMNM0553642 exit to NMNM1165746 80 enter Lease Crossing	20500.00	90.00	179.67	12920.00	7594.24	-7592.41	338.71	0.00	443624.60	757379.64	N 32.217670	W 103.634748
	20600.00	90.00	179.67	12920.00	7694.24	-7692.41	339.28	0.00	443524.60	757380.22	N 32.217395	W 103.634749
	20700.00	90.00	179.67	12920.00	7794.24	-7792.41	339.86	0.00	443424.61	757380.79	N 32.217121	W 103.634749
	20800.00	90.00	179.67	12920.00	7894.24	-7892.41	340.43	0.00	443324.62	757381.37	N 32.216846	W 103.634749
	20900.00	90.00	179.67	12920.00	7994.24	-7992.41	341.01	0.00	443224.62	757381.95	N 32.216571	W 103.634749
	21000.00	90.00	179.67	12920.00	8094.24	-8092.40	341.58	0.00	443124.63	757382.52	N 32.216296	W 103.634750
	21100.00	90.00	179.67	12920.00	8194.24	-8192.40	342.16	0.00	443024.63	757383.10	N 32.216021	W 103.634750
	21200.00	90.00	179.67	12920.00	8294.24	-8292.40	342.74	0.00	442924.64	757383.67	N 32.215746	W 103.634750
	21300.00	90.00	179.67	12920.00	8394.24	-8392.40	343.31	0.00	442824.64	757384.25	N 32.215471	W 103.634750
	21400.00	90.00	179.67	12920.00	8494.24	-8492.40	343.89	0.00	442724.65	757384.82	N 32.215197	W 103.634751
	21500.00	90.00	179.67	12920.00	8594.24	-8592.40	344.46	0.00	442624.66	757385.40	N 32.214922	W 103.634751
	21600.00	90.00	179.67	12920.00	8694.24	-8692.39	345.04	0.00	442524.66	757385.98	N 32.214647	W 103.634751
	21700.00	90.00	179.67	12920.00	8794.24	-8792.39	345.61	0.00	442424.67	757386.55	N 32.214372	W 103.634751
	21800.00	90.00	179.67									

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 °)
Description	Part	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size (in)	Casing Diameter (in)	Expected Max Inclination (deg)	Survey Tool Type	Borehole / Survey			
	1	0.000	26.000	1/100.000	17.500	13.375		A001Mb_MWD-Depth Only	Cimarex Dos Equis 12-13 Federal			
	1	26.000	23040.570	1/100.000	17.500	13.375		A001Mb_MWD	Com #8H / Cimarex Dos Equis 12- Cimarex Dos Equis 12-13 Federal Com #8H / Cimarex Dos Equis 12-			

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

CONDITIONS

Action 164193

CONDITIONS

Operator: CIMAREX ENERGY CO. 600 N. Marienfeld Street Midland, TX 79701	OGRID: 215099
	Action Number: 164193
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	None	12/29/2022