

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

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

1. Type of Well

☐ Oil Well☐ Gas Well☐ Other

8. Well Name and No.

2. Name of Operator

9. API Well No.

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. 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	
	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity	
☐ Subsequent Report	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other	
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon		
☐ Final Abandonment Notice	☐ 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

To: 100' FSL & 450' FWL, Unit M, Sec 13, 24S, 32E

Proposed TD & TVD will be changed as follows:

From: 22,201MD, 12,300TVD

To: 22,515MD, 12,400TVD

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 next 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 survey and plat.

Location of Well

0. SHL: NWNW / 330 FNL / 330 FWL / TWSP: 24S / RANGE: 32E / SECTION: 12 / LAT: 32.210686 / LONG: -103.635773 (TVD: 0 feet, MD: 0 feet)

PPP: NWSW / 2641 FNL / 336 FWL / TWSP: 24S / RANGE: 32E / SECTION: 12 / LAT: 32.224883 / LONG: -103.635761 (TVD: 12300 feet, MD: 20980 feet)

PPP: NWNW / 1321 FSL / 333 FWL / TWSP: 24S / RANGE: 32E / SECTION: 13 / LAT: 32.214042 / LONG: -103.635769 (TVD: 12300 feet, MD: 19659 feet)

PPP: SWNW / 2641 FSL / 336 FWL / TWSP: 24S / RANGE: 32E / SECTION: 12 / LAT: 32.224883 / LONG: -103.635761 (TVD: 12300 feet, MD: 17035 feet)

PPP: NWNW / 2641 FNL / 336 FWL / TWSP: 24S / RANGE: 32E / SECTION: 12 / LAT: 32.215525 / LONG: -103.635756 (TVD: 12300 feet, MD: 14375 feet)

BHL: SWSW / 100 FSL / 450 FWL / TWSP: 24S / RANGE: 32E / SECTION: 13 / LAT: 32.210686 / LONG: -103.635773 (TVD: 12400 feet, MD: 22515 feet)

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

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

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-50135		² Pool Code 98309		³ Pool Name WC-025-G08 S243213C; Wolfcamp	
⁴ Property Code 326056		⁵ Property Name DOS EQUIS 12-13 FEDERAL COM			⁶ Well Number 9H
⁷ OGRID No. 215099		⁸ Operator Name CIMAREX ENERGY CO.			⁹ Elevation 3607.5'

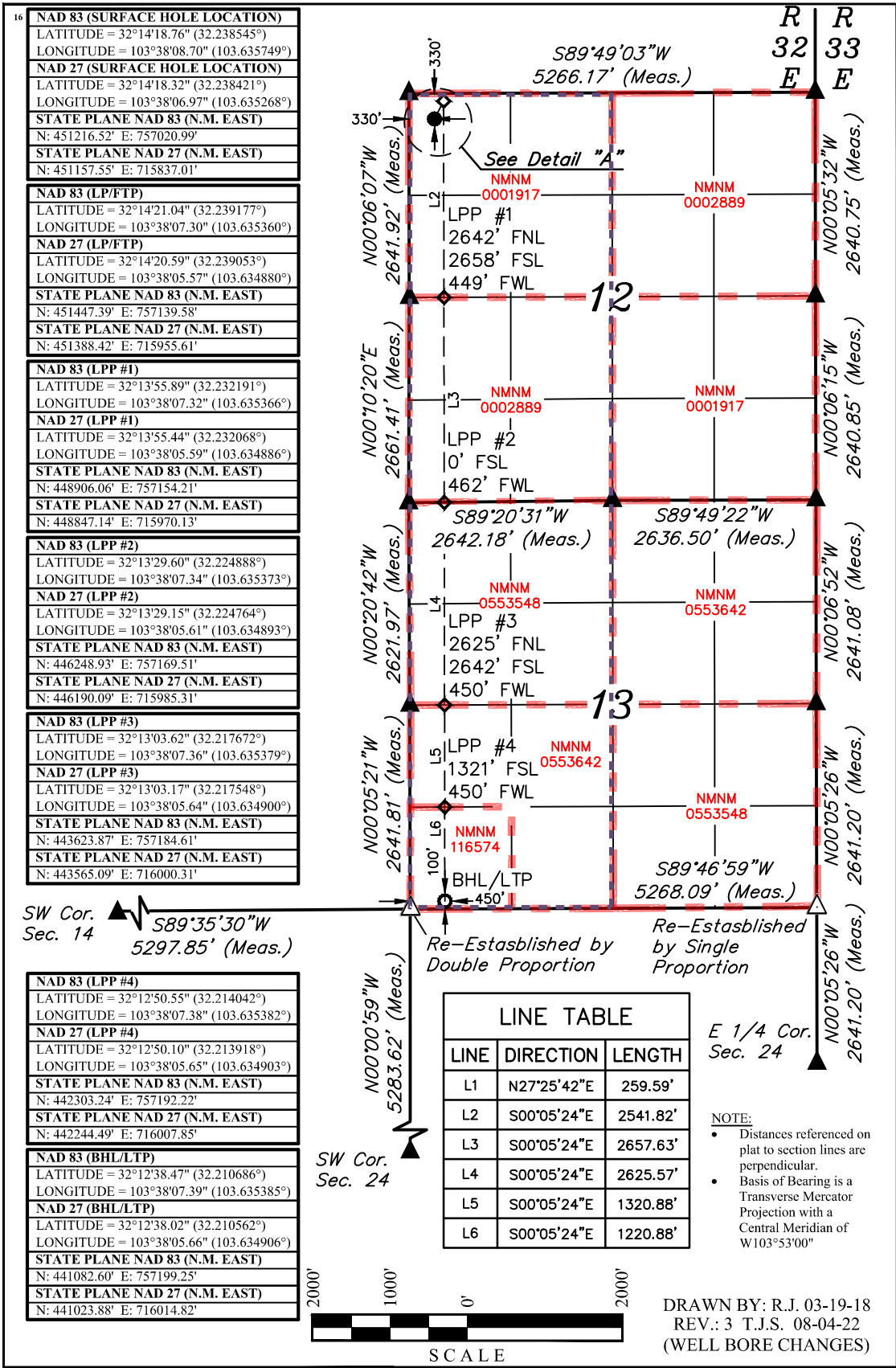
¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	12	24S	32E		330	NORTH	330	WEST	LEA

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	13	24S	32E		100	SOUTH	450	WEST	LEA
¹² Dedicated Acres 640		¹³ Joint or Infill		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.



17 OPERATOR CERTIFICATION

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.

Signature: *K. Schlichting* Date: 8/25/2022

Printed Name: Kanicia Schlichting

E-mail Address: Kanicia.Schlichting@coterra.com

18 SURVEYOR CERTIFICATION

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.

October 18, 2017

Date of Survey

Signature and Seal of Professional Surveyor:

PAUL BUCHELE
NEW MEXICO
23782
08-04-22
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.)

Section Line

LP/FTP

SHL

330'

450'

100'

Detail "A"

No Scale

1. Geological Formations

TVD of target 12,400

Pilot Hole TD N/A

MD at TD 22,515

Deepest expected fresh water

Formation	Depth (TVD) from KB	Water/Mineral Bearing/Target Zone	Hazards
Rustler	1185	Useable Water	
Salado (Top Salt)	1400	N/A	
Base of Salt	4650	N/A	
Bell Canyon	4947	N/A	
Cherry Canyon	5874	Hydrocarbons	
Brushy Canyon	7222	Hydrocarbons	
Bone Spring	8780	Hydrocarbons	
Avalon	9219	Hydrocarbons	
1st Bone Spring Sand	9943	Hydrocarbons	
2nd Bone Spring Sand	10478	Hydrocarbons	
3rd Bone Spring Sand	11845	Hydrocarbons	
Wolfcamp (Target)	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	1215	1215	10-3/4"	40.50	J-55	BT&C	3.00	5.95	12.78
9 7/8	0	12571	12361	7-5/8"	29.70	L-80	BT&C	2.48	1.19	1.81
6 3/4	0	11821	11821	5-1/2"	20.00	HCL-80	LT&C	1.24	1.20	1.86
6 3/4	11821	22515	12400	5"	18.00	P-110	BT&C	1.67	1.69	55.65
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 9H

	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?	Y

3. Cementing Program

Casing	# Sk	Wt. lb/gal	Yld ft ³ /sack	H ₂ O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surface	472	13.50	1.72	9.15	15.5	Lead: Class C + Bentonite
	127	14.80	1.34	6.32	9.5	Tail: Class C + LCM
Intermediate Stage 1	591	10.30	3.64	22.18		Lead: Tuned Light + LCM
	200	14.80	1.34	6.32	9.5	Tail: Class C + LCM
Intermediate Stage 2	783	12.90	1.88	9.65	12	Lead: 35:65 (Poz:C) + Salt + Bentonite
Production	1031	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 +/- 4,900'.

Casing String	TOC	% Excess
Surface	0	45
Intermediate Stage 1	4900	47
Intermediate Stage 2	0	37
Production	12371	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 1215'	Fresh Water	7.83 - 8.33	28	N/C
1215' to 12571'	Brine Diesel Emulsion	8.50 - 9.00	30-35	N/C
12571' to 22515'	OBM	12.00 - 12.50	50-70	N/C
				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	
X	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.
	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	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.

	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 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.

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

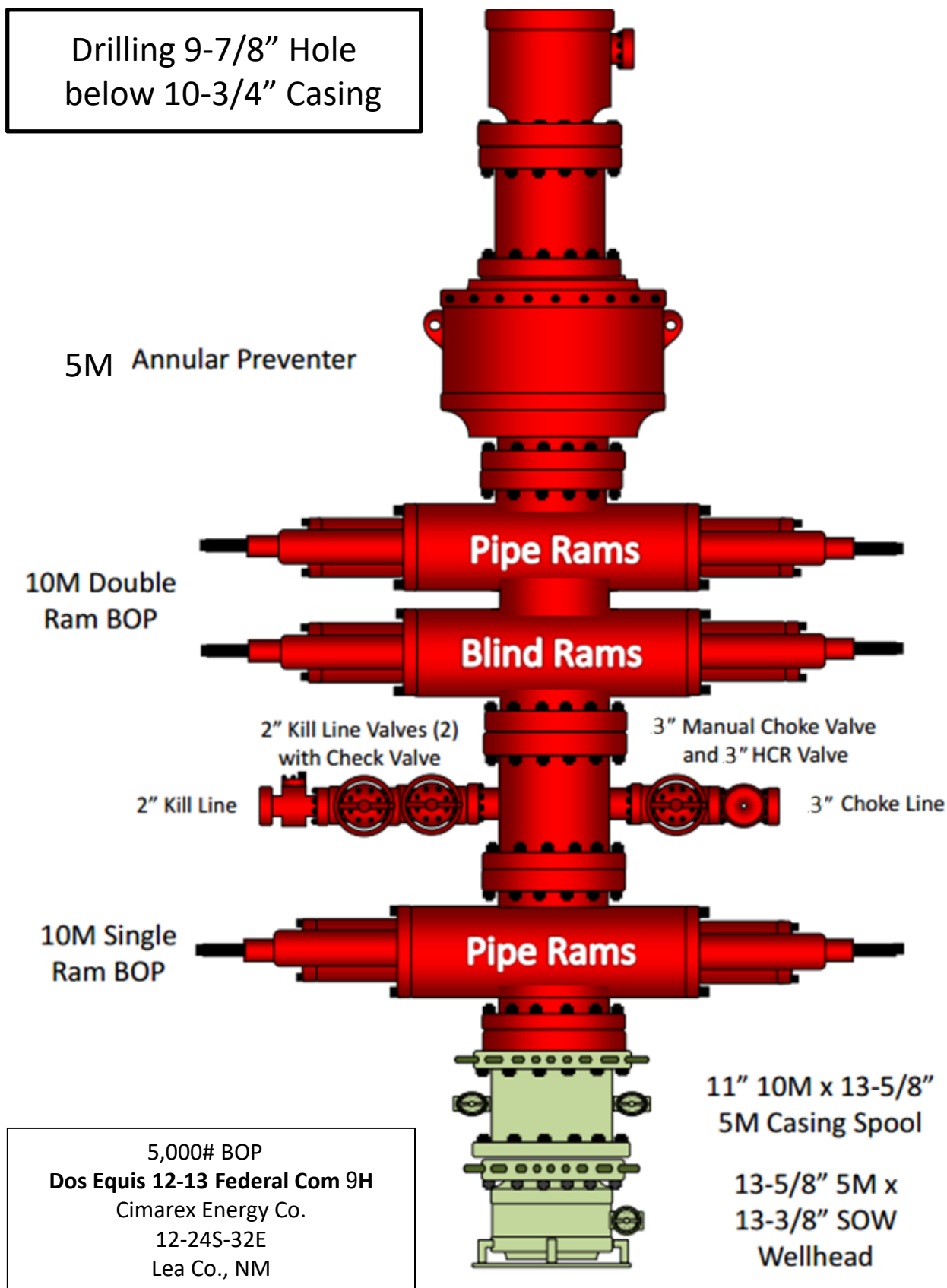
All casing strings will be tested as per Onshore Order No.2 to at least 0.22 psi/ft or 1,500 whichever is greater and not to exceed 70% of casing burst.

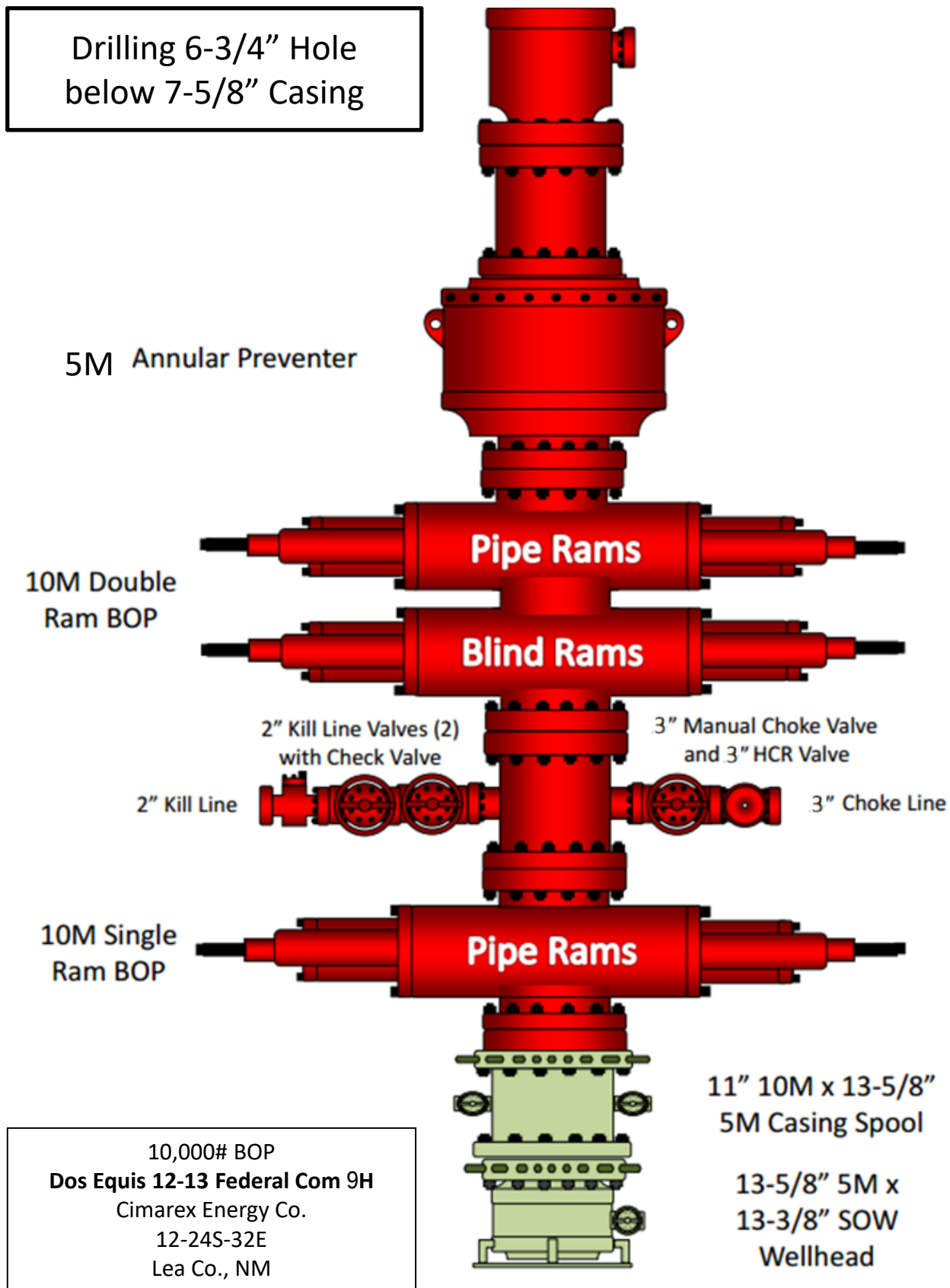
If well conditions dictate conventional slips will be set and BOPE will be tested to appropriate pressures based on permitted pressure requirements.

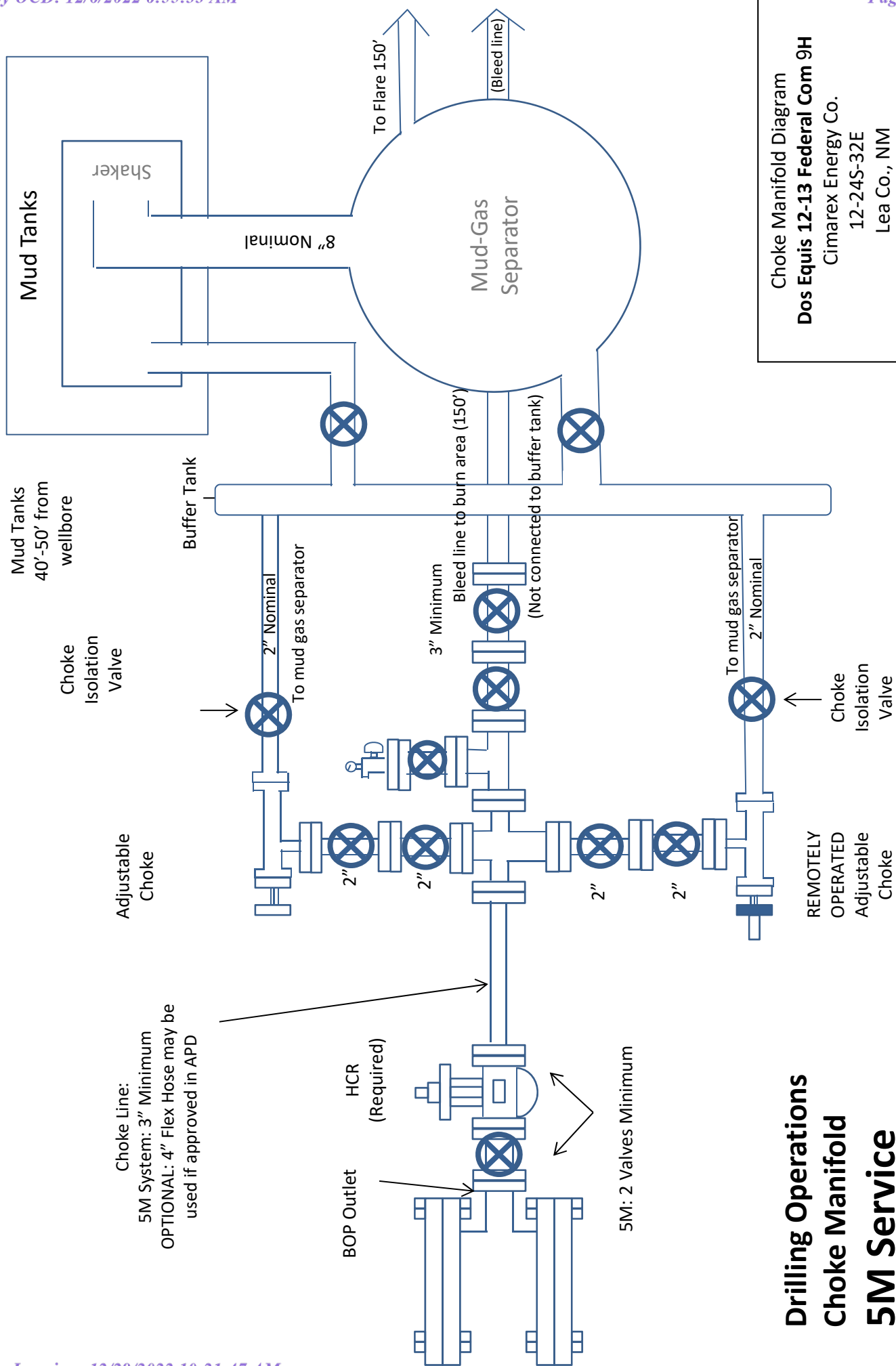
10. Other Variances

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 9H 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 9H 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 9H 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.

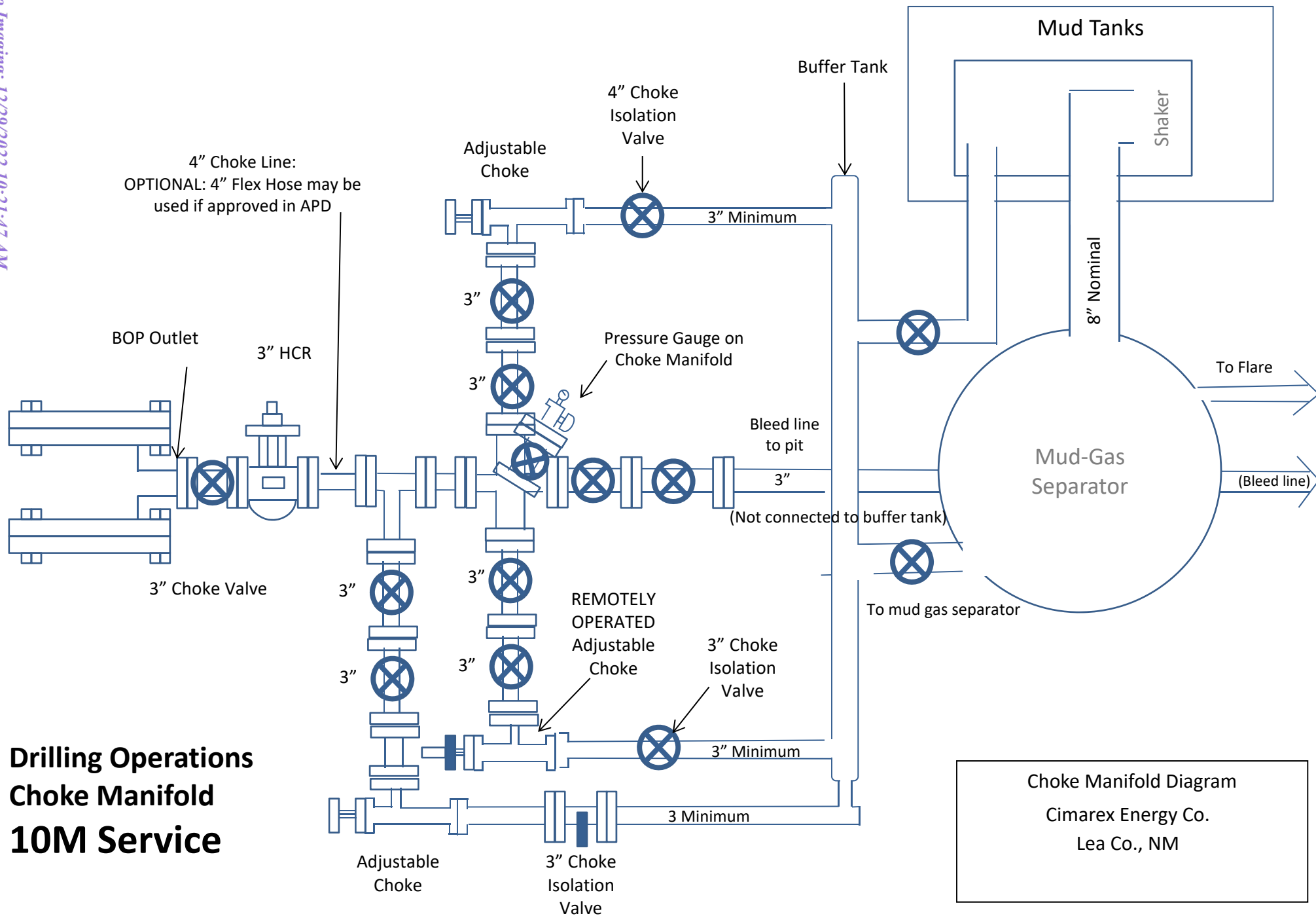






Drilling Operations Choke Manifold 10M Service

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



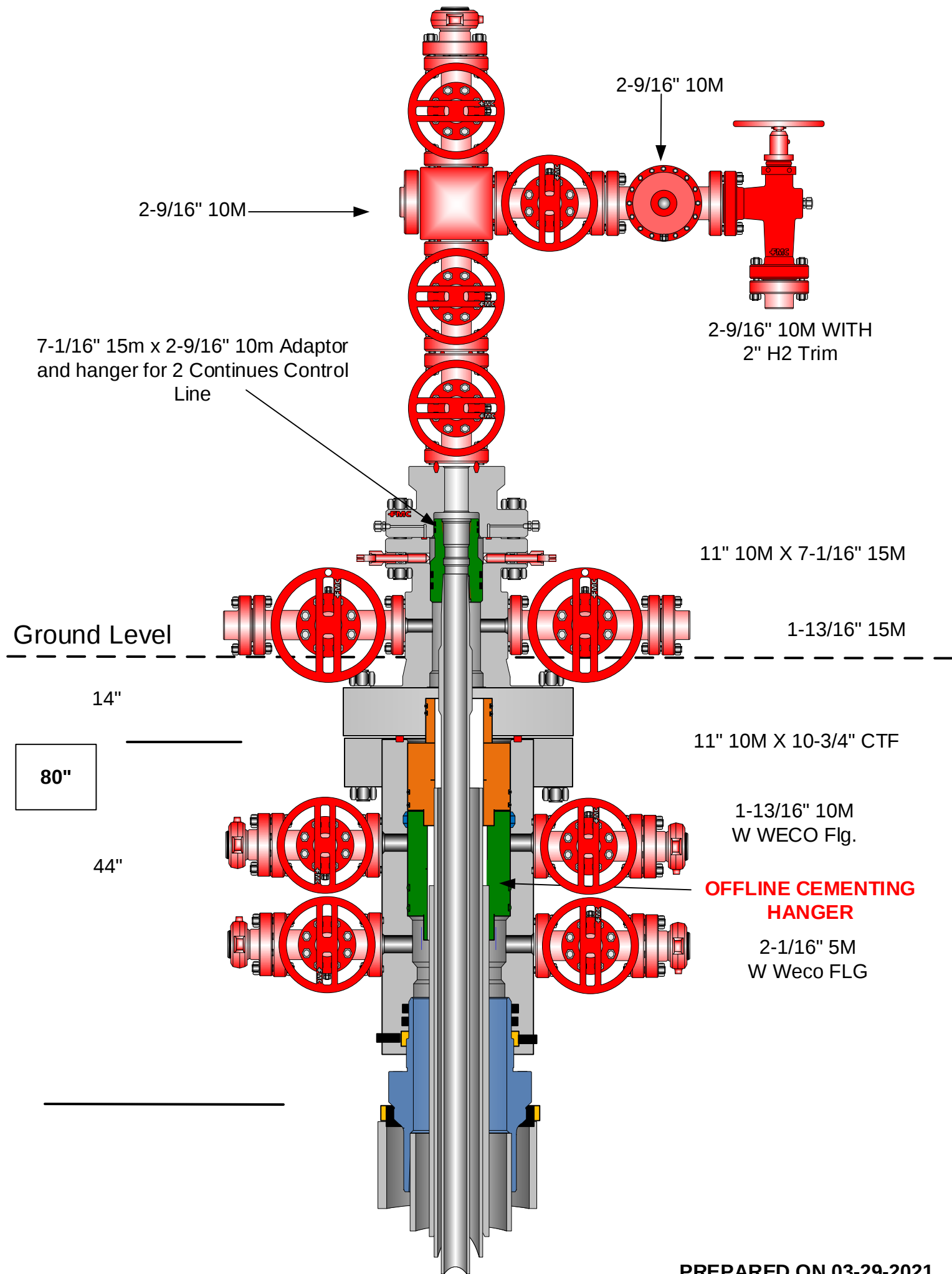
TUBULAR PROGRAM
1,005' 10-3/4" 40.5 # J55 BTC
12,008' 7-5/8" 29.7 # L-80 BTC
850' 7-5/8" 29.7 # L-80 UFJ
12,050' 5-1/2" 26# CYP110 CDCHTQ
10,612' 5" 18# CYP-110 BTC
2-7/8" L80 EUE



Dos Equis 12-13
Fed Com 9H

CACTUS FOR SERVICE
WEARBUSHING
IN CASING HEAD &
CASING SPOOL

LEA CO., NM





Cimarex Dos Equis 12-13 Federal Com #9H Rev2 kFc 05Aug22 Proposal

Geodetic Report

(Def Plan)



Report Date:	August 05, 2022 - 04:54 PM	Survey / DLS Computation:	Minimum Curvature / Lubinski
Client:	Cimarex Energy	Vertical Section Azimuth:	179.670 ° (Grid North)
Field:	NM Lea County (NAD 83)	Vertical Section Origin:	0.000 ft, 0.000 ft
Structure / Slot:	Cimarex Dos Equis 12-13 Federal Com #9H / 9H	TVD Reference Datum:	RKB
Well:	Dos Equis 12-13 Federal Com #9H	TVD Reference Elevation:	3633.500 ft above MSL
Borehole:	Dos Equis 12-13 Federal Com #9H	Seabed / Ground Elevation:	3607.500 ft above MSL
UWI / API#:	Unknown / Unknown	Magnetic Declination:	6.328 °
Survey Name:	Cimarex Dos Equis 12-13 Federal Com #9H Rev2 kFc 05Aug22	Total Gravity Field Strength:	998.4378mgn (9.80665 Based)
Survey Date:	December 26, 2019	Gravity Model:	GARM
Tort / AHD / DDI / ERD Ratio:	102.001 ° / 10624.884 ft / 6.294 / 0.857	Total Magnetic Field Strength:	47574.085 nT
Coordinate Reference System:	NAD83 New Mexico State Plane, Eastern Zone, US Feet	Magnetic Dip Angle:	59.832 °
Location Lat / Long:	N 32° 14' 18.76071", W 103° 38' 8.69536"	Declination Date:	August 05, 2022
Location Grid N/E Y/X:	N 451216.520 ftUS, E 757020.990 ftUS	Magnetic Declination Model:	HDGM 2022
CRS Grid Convergence Angle:	0.3721 °	North Reference:	Grid North
Grid Scale Factor:	0.99996237	Grid Convergence Used:	0.3721 °
Version / Patch:	2.10.832.2	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, 330' FWL]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	451216.52	757020.99	N 32.238545	W 103.635749
	100.00	0.00	27.19	100.00	0.00	0.00	0.00	0.00	451216.52	757020.99	N 32.238545	W 103.635749
	200.00	0.00	27.19	200.00	0.00	0.00	0.00	0.00	451216.52	757020.99	N 32.238545	W 103.635749
	300.00	0.00	27.19	300.00	0.00	0.00	0.00	0.00	451216.52	757020.99	N 32.238545	W 103.635749
	400.00	0.00	27.19	400.00	0.00	0.00	0.00	0.00	451216.52	757020.99	N 32.238545	W 103.635749
	500.00	0.00	27.19	500.00	0.00	0.00	0.00	0.00	451216.52	757020.99	N 32.238545	W 103.635749
	600.00	0.00	27.19	600.00	0.00	0.00	0.00	0.00	451216.52	757020.99	N 32.238545	W 103.635749
	700.00	0.00	27.19	700.00	0.00	0.00	0.00	0.00	451216.52	757020.99	N 32.238545	W 103.635749
	800.00	0.00	27.19	800.00	0.00	0.00	0.00	0.00	451216.52	757020.99	N 32.238545	W 103.635749
	900.00	0.00	27.19	900.00	0.00	0.00	0.00	0.00	451216.52	757020.99	N 32.238545	W 103.635749
	1000.00	0.00	27.19	1000.00	0.00	0.00	0.00	0.00	451216.52	757020.99	N 32.238545	W 103.635749
	1100.00	0.00	27.19	1100.00	0.00	0.00	0.00	0.00	451216.52	757020.99	N 32.238545	W 103.635749
Rustler	1185.00	0.00	27.19	1185.00	0.00	0.00	0.00	0.00	451216.52	757020.99	N 32.238545	W 103.635749
	1200.00	0.00	27.19	1200.00	0.00	0.00	0.00	0.00	451216.52	757020.99	N 32.238545	W 103.635749
	1300.00	0.00	27.19	1300.00	0.00	0.00	0.00	0.00	451216.52	757020.99	N 32.238545	W 103.635749
	1400.00	0.00	27.19	1400.00	0.00	0.00	0.00	0.00	451216.52	757020.99	N 32.238545	W 103.635749
Salado (Top Salt)	1500.00	0.00	27.19	1500.00	0.00	0.00	0.00	0.00	451216.52	757020.99	N 32.238545	W 103.635749
	1600.00	0.00	27.19	1600.00	0.00	0.00	0.00	0.00	451216.52	757020.99	N 32.238545	W 103.635749
	1700.00	0.00	27.19	1700.00	0.00	0.00	0.00	0.00	451216.52	757020.99	N 32.238545	W 103.635749
	1800.00	0.00	27.19	1800.00	0.00	0.00	0.00	0.00	451216.52	757020.99	N 32.238545	W 103.635749
	1900.00	0.00	27.19	1900.00	0.00	0.00	0.00	0.00	451216.52	757020.99	N 32.238545	W 103.635749
	2000.00	0.00	27.19	2000.00	0.00	0.00	0.00	0.00	451216.52	757020.99	N 32.238545	W 103.635749
Nudge, Build 2"/100ft	2100.00	0.00	27.19	2100.00	0.00	0.00	0.00	0.00	451216.52	757020.99	N 32.238545	W 103.635749
	2200.00	2.00	27.19	2199.98	-1.55	1.55	0.80	2.00	451218.07	757021.79	N 32.238549	W 103.635746
	2300.00	4.00	27.19	2299.84	-6.19	6.21	3.19	2.00	451222.73	757024.18	N 32.238562	W 103.635738
	2400.00	6.00	27.19	2399.45	-13.92	13.96	7.17	2.00	451230.48	757028.16	N 32.238583	W 103.635725
Hold	2400.02	6.00	27.19	2399.47	-13.92	13.96	7.17	2.00	451230.48	757028.16	N 32.238583	W 103.635725
	2500.00	6.00	27.19	2498.90	-23.19	23.26	11.95	0.00	451239.78	757032.94	N 32.238608	W 103.635710
	2600.00	6.00	27.19	2598.36	-32.46	32.56	16.72	0.00	451249.07	757037.71	N 32.238634	W 103.635694
	2700.00	6.00	27.19	2697.81	-41.73	41.85	21.50	0.00	451258.37	757042.49	N 32.238659	W 103.635678
	2800.00	6.00	27.19	2797.26	-51.00	51.15	26.28	0.00	451267.67	757047.27	N 32.238685	W 103.635663
	2900.00	6.00	27.19	2896.71	-60.27	60.45	31.06	0.00	451276.97	757052.04	N 32.238710	W 103.635647
	3000.00	6.00	27.19	2996.16	-69.54	69.75	35.83	0.00	451286.27	757056.82	N 32.238736	W 103.635631
	3100.00	6.00	27.19	3095.62	-78.81	79.05	40.61	0.00	451295.56	757061.60	N 32.238761	W 103.635616
	3200.00	6.00	27.19	3195.07	-88.08	88.35	45.39	0.00	451304.86	757066.37	N 32.238787	W 103.635600
	3300.00	6.00	27.19	3294.52	-97.35	97.64	50.16	0.00	451314.16	757071.15	N 32.238812	W 103.635584
	3400.00	6.00	27.19	3393.97	-106.62	106.94	54.94	0.00	451323.46	757075.93	N 32.238838	W 103.635569
	3500.00	6.00	27.19	3493.43	-115.89	116.24	59.72	0.00	451332.76	757080.70	N 32.238863	W 103.635553
	3600.00	6.00	27.19	3592.88	-125.16	125.54	64.49	0.00	451342.05	757085.48	N 32.238889	W 103.635538
	3700.00	6.00	27.19	3692.33	-134.44	134.84	69.27	0.00	451351.35	757090.26	N 32.238914	W 103.635522
	3800.00	6.00	27.19	3791.78	-143.71	144.13	74.05	0.00	451360.65	757095.03	N 32.238939	W 103.635506
	3900.00	6.00	27.19	3891.23	-152.98	153.43	78.82	0.00	451369.95	757099.81	N 32.238965	W 103.635491
	4000.00	6.00	27.19	3990.69	-162.25	162.73	83.60	0.00	451379.25	757104.59	N 32.238990	W 103.635475
	4100.00	6.00	27.19	4090.14	-171.52	172.03	88.38	0.00	451388.54	757109.36	N 32.239016	W 103.635459
	4200.00	6.00	27.19	4189.59	-180.79	181.33	93.15	0.00	451397.84	757114.14	N 32.239041	W 103.635444
	4300.00	6.00	27.19	4289.04	-190.06	190.63	97.93	0.00	451407.14	757118.92	N 32.239067	W 103.635428
	4400.00	6.00	27.19	4388.49	-199.33	199.92	102.71	0.00	451416.44	757123.69	N 32.239092	W 103.635412
	4500.00	6.00	27.19	4487.95	-208.60	209.22	107.48	0.00	451425.73	757128.47	N 32.239118	W 103.635397
Drop 2"/100ft	4582.56	6.00	27.19	4570.05	-216.25	216.90	111.43	0.00	451433.41	757132.41	N 32.239139	W 103.635384
	4600.00	5.65	27.19	4587.40	-217.82	218.47	112.24	2.00	451434.99	757133.22	N 32.239143	W 103.635381
Base fo Salt	4662.84	4.39	27.19	4650.00	-222.70	223.37	114.75	2.00	451439.88	757135.74	N 32.239157	W 103.635373
	4700.00	3.65	27.19	4687.07	-225.02	225.69	115.94	2.00	451442.20	757136.93	N 32.239163	W 103.635369
	4800.00	1.65	27.19	4786.96	-229.12	229.80	118.06	2.00	451446.31	757139.04	N 32.239174	W 103.635362
Hold	4882.57	0.00	27.19	4869.52	-230.17	230.86	118.60	2.00	451447.37	757139.59	N 32.239177	W 103.635360
	4900.00	0.00	27.19	4886.95	-230.17	230.86	118.60	0.00	451447.37	757139.59	N 32.239177	W 103.635360
Bell Canyon	4960.05	0.00	27.19	4947.00	-230.17	230.86	118.60	0.00	451447.37	757139.59	N 32.239177	W 103.635360
	5000.00	0.00	27.19	4986.95	-230.17	230.86	118.60	0.00	451447.37	757139.59	N 32.239177	W 103.635360
	5100.00	0.00	27.19	5086.95	-230.17	230.86	118.60	0.00	451447.37	757139.59	N 32.239177	W 103.635360
	5200.00	0.00	27.19	5186.95	-230.17	230.86	118.60	0.00	451447.37	757139.59	N 32.239177	W 103.635360
	5300.00	0.00	27.19	5286.95	-230.17	230.86	118.60	0.00	451447.37	757139.59	N 32.239177	W 103.635360
	5400.00	0.00	27.19	5386.95	-230.17	230.86	118.60	0.00	451447.37	757139.59	N 32.239177	W 103.635360
	5500.00	0.00	27.19	5486.95	-230.17	230.86	118.60	0.00	451447.37	757139.59	N 32.239177	W 103.635360
	5600.00	0.00	27.19	5586.95	-230.17	230.86	118.60	0.00	451447.37	757139.59	N 32.239177	W 103.635360
	5700.00	0.00	27.19	5686.95	-230.17	230.86	118.60	0.00	451447.37	757139.59	N 32.239177	W 103.635360
	5800.00	0.00	27.19	5786.95	-230.17	230.86	118.60	0.00	451447.37	757139.59	N 32.239177	W 103.635360
Cherry Canyon	5887.05	0.00	27.19	5874.00	-230.17	230.86	118.60	0.00	451447.37	757139.59	N 32.239177	W 103.635360
	5900.00	0.00	27.19	5886.95	-230.17	230.86	118.60	0.00	451447.37	757139.59	N 32.239177	W 103.635360
	6000.00	0.00	27.19	5986.95	-230.17	230.86	118.60	0.00	451447.37	757139.59	N 32.239177	W 103.635360
	6100.00	0.00	27.19	6086.95	-230.17	230.86	118.60	0.00	451447.37	757139.59	N 32.239177	W 103.635360
	6200.00	0.00	27.19	6186.95	-230.17	230.86	118.60	0.00	451447.37	757139.59	N 32.239177	W 103.635360
	6300.00	0.00	27.19	6286.95	-230.17	230.86	118.60	0.00	451447.37	757139.59	N 32.239177	W 103.635360
	6400.00	0.00	27.19	6386.95	-230.17	230.86	118.60	0.00	451447.37	757139.59	N 32.239177	W 103.635360
	6500.00	0.00	27.19	6486.95	-230.17	230.86	118.60	0.00	451447.37	757139.59	N 32.239177	W 103.635360
	6600.00	0.00	27.19	6586.95	-230.17	230.86	118.60	0.00	451447.37	757139.59	N 32.239177	W 103.635360
	6700.00	0.00	27.19	6686.95	-230.17	230.86	118.60	0.00	451447.37	757139.59	N 32.239177	W 103.635360

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 °)	
Brushy Canyon	6800.00	0.00	27.19	6786.95	-230.17	230.86	118.60	0.00	451447.37	757139.59	N 32.239177	W 103.635360	
	6900.00	0.00	27.19	6886.95	-230.17	230.86	118.60	0.00	451447.37	757139.59	N 32.239177	W 103.635360	
	7000.00	0.00	27.19	6986.95	-230.17	230.86	118.60	0.00	451447.37	757139.59	N 32.239177	W 103.635360	
	7100.00	0.00	27.19	7086.95	-230.17	230.86	118.60	0.00	451447.37	757139.59	N 32.239177	W 103.635360	
	7200.00	0.00	27.19	7186.95	-230.17	230.86	118.60	0.00	451447.37	757139.59	N 32.239177	W 103.635360	
	7300.00	0.00	27.19	7286.95	-230.17	230.86	118.60	0.00	451447.37	757139.59	N 32.239177	W 103.635360	
	7324.05	0.00	27.19	7311.00	-230.17	230.86	118.60	0.00	451447.37	757139.59	N 32.239177	W 103.635360	
	7400.00	0.00	27.19	7386.95	-230.17	230.86	118.60	0.00	451447.37	757139.59	N 32.239177	W 103.635360	
	7500.00	0.00	27.19	7486.95	-230.17	230.86	118.60	0.00	451447.37	757139.59	N 32.239177	W 103.635360	
	7600.00	0.00	27.19	7586.95	-230.17	230.86	118.60	0.00	451447.37	757139.59	N 32.239177	W 103.635360	
	7700.00	0.00	27.19	7686.95	-230.17	230.86	118.60	0.00	451447.37	757139.59	N 32.239177	W 103.635360	
	7800.00	0.00	27.19	7786.95	-230.17	230.86	118.60	0.00	451447.37	757139.59	N 32.239177	W 103.635360	
	7900.00	0.00	27.19	7886.95	-230.17	230.86	118.60	0.00	451447.37	757139.59	N 32.239177	W 103.635360	
	8000.00	0.00	27.19	7986.95	-230.17	230.86	118.60	0.00	451447.37	757139.59	N 32.239177	W 103.635360	
	8100.00	0.00	27.19	8086.95	-230.17	230.86	118.60	0.00	451447.37	757139.59	N 32.239177	W 103.635360	
Bone Spring	8200.00	0.00	27.19	8186.95	-230.17	230.86	118.60	0.00	451447.37	757139.59	N 32.239177	W 103.635360	
	8300.00	0.00	27.19	8286.95	-230.17	230.86	118.60	0.00	451447.37	757139.59	N 32.239177	W 103.635360	
	8400.00	0.00	27.19	8386.95	-230.17	230.86	118.60	0.00	451447.37	757139.59	N 32.239177	W 103.635360	
	8500.00	0.00	27.19	8486.95	-230.17	230.86	118.60	0.00	451447.37	757139.59	N 32.239177	W 103.635360	
	8600.00	0.00	27.19	8586.95	-230.17	230.86	118.60	0.00	451447.37	757139.59	N 32.239177	W 103.635360	
	8700.00	0.00	27.19	8686.95	-230.17	230.86	118.60	0.00	451447.37	757139.59	N 32.239177	W 103.635360	
	8800.00	0.00	27.19	8786.95	-230.17	230.86	118.60	0.00	451447.37	757139.59	N 32.239177	W 103.635360	
	8858.05	0.00	27.19	8845.00	-230.17	230.86	118.60	0.00	451447.37	757139.59	N 32.239177	W 103.635360	
	8900.00	0.00	27.19	8886.95	-230.17	230.86	118.60	0.00	451447.37	757139.59	N 32.239177	W 103.635360	
	9000.00	0.00	27.19	8986.95	-230.17	230.86	118.60	0.00	451447.37	757139.59	N 32.239177	W 103.635360	
	9100.00	0.00	27.19	9086.95	-230.17	230.86	118.60	0.00	451447.37	757139.59	N 32.239177	W 103.635360	
	9200.00	0.00	27.19	9186.95	-230.17	230.86	118.60	0.00	451447.37	757139.59	N 32.239177	W 103.635360	
	Avalon	9296.05	0.00	27.19	9283.00	-230.17	230.86	118.60	0.00	451447.37	757139.59	N 32.239177	W 103.635360
		9300.00	0.00	27.19	9286.95	-230.17	230.86	118.60	0.00	451447.37	757139.59	N 32.239177	W 103.635360
		9400.00	0.00	27.19	9386.95	-230.17	230.86	118.60	0.00	451447.37	757139.59	N 32.239177	W 103.635360
9500.00		0.00	27.19	9486.95	-230.17	230.86	118.60	0.00	451447.37	757139.59	N 32.239177	W 103.635360	
9600.00		0.00	27.19	9586.95	-230.17	230.86	118.60	0.00	451447.37	757139.59	N 32.239177	W 103.635360	
9700.00		0.00	27.19	9686.95	-230.17	230.86	118.60	0.00	451447.37	757139.59	N 32.239177	W 103.635360	
9800.00		0.00	27.19	9786.95	-230.17	230.86	118.60	0.00	451447.37	757139.59	N 32.239177	W 103.635360	
9900.00		0.00	27.19	9886.95	-230.17	230.86	118.60	0.00	451447.37	757139.59	N 32.239177	W 103.635360	
9993.05		0.00	27.19	9980.00	-230.17	230.86	118.60	0.00	451447.37	757139.59	N 32.239177	W 103.635360	
10000.00		0.00	27.19	9986.95	-230.17	230.86	118.60	0.00	451447.37	757139.59	N 32.239177	W 103.635360	
10100.00		0.00	27.19	10086.95	-230.17	230.86	118.60	0.00	451447.37	757139.59	N 32.239177	W 103.635360	
10200.00		0.00	27.19	10186.95	-230.17	230.86	118.60	0.00	451447.37	757139.59	N 32.239177	W 103.635360	
10300.00		0.00	27.19	10286.95	-230.17	230.86	118.60	0.00	451447.37	757139.59	N 32.239177	W 103.635360	
10400.00		0.00	27.19	10386.95	-230.17	230.86	118.60	0.00	451447.37	757139.59	N 32.239177	W 103.635360	
10500.00		0.00	27.19	10486.95	-230.17	230.86	118.60	0.00	451447.37	757139.59	N 32.239177	W 103.635360	
10600.00	0.00	27.19	10586.95	-230.17	230.86	118.60	0.00	451447.37	757139.59	N 32.239177	W 103.635360		
2nd Bone Spring Sand	10653.05	0.00	27.19	10640.00	-230.17	230.86	118.60	0.00	451447.37	757139.59	N 32.239177	W 103.635360	
3rd Bone Spring Carb	10700.00	0.00	27.19	10686.95	-230.17	230.86	118.60	0.00	451447.37	757139.59	N 32.239177	W 103.635360	
	10800.00	0.00	27.19	10786.95	-230.17	230.86	118.60	0.00	451447.37	757139.59	N 32.239177	W 103.635360	
	10900.00	0.00	27.19	10886.95	-230.17	230.86	118.60	0.00	451447.37	757139.59	N 32.239177	W 103.635360	
	11000.00	0.00	27.19	10986.95	-230.17	230.86	118.60	0.00	451447.37	757139.59	N 32.239177	W 103.635360	
	11100.00	0.00	27.19	11086.95	-230.17	230.86	118.60	0.00	451447.37	757139.59	N 32.239177	W 103.635360	
	11103.05	0.00	27.19	11090.00	-230.17	230.86	118.60	0.00	451447.37	757139.59	N 32.239177	W 103.635360	
	11200.00	0.00	27.19	11186.95	-230.17	230.86	118.60	0.00	451447.37	757139.59	N 32.239177	W 103.635360	
	11300.00	0.00	27.19	11286.95	-230.17	230.86	118.60	0.00	451447.37	757139.59	N 32.239177	W 103.635360	
	11400.00	0.00	27.19	11386.95	-230.17	230.86	118.60	0.00	451447.37	757139.59	N 32.239177	W 103.635360	
	11500.00	0.00	27.19	11486.95	-230.17	230.86	118.60	0.00	451447.37	757139.59	N 32.239177	W 103.635360	
	11600.00	0.00	27.19	11586.95	-230.17	230.86	118.60	0.00	451447.37	757139.59	N 32.239177	W 103.635360	
	11700.00	0.00	27.19	11686.95	-230.17	230.86	118.60	0.00	451447.37	757139.59	N 32.239177	W 103.635360	
	11800.00	0.00	27.19	11786.95	-230.17	230.86	118.60	0.00	451447.37	757139.59	N 32.239177	W 103.635360	
	KOP, Build 10"/100ft	11820.57	0.00	27.19	11807.52	-230.17	230.86	118.60	0.00	451447.37	757139.59	N 32.239177	W 103.635360
	3rd Bone Spring Sand	11838.06	1.75	179.67	11825.00	-229.91	230.59	118.60	10.00	451447.10	757139.59	N 32.239176	W 103.635360
Wolfcamp	11900.00	7.94	179.67	11886.69	-224.68	225.36	118.63	10.00	451441.87	757139.62	N 32.239162	W 103.635360	
	12000.00	17.94	179.67	11984.03	-202.31	202.99	118.76	10.00	451419.51	757139.75	N 32.239100	W 103.635360	
	12100.00	27.94	179.67	12076.00	-163.38	164.06	118.98	10.00	451380.58	757139.97	N 32.238993	W 103.635360	
	12200.00	37.94	179.67	12159.82	-109.07	109.75	119.30	10.00	451326.27	757140.28	N 32.238844	W 103.635361	
	12300.00	47.94	179.67	12232.93	-41.03	41.72	119.69	10.00	451258.23	757140.67	N 32.238657	W 103.635361	
	12303.10	48.25	179.67	12235.00	-38.71	39.40	119.70	10.00	451255.92	757140.69	N 32.238651	W 103.635361	
	12400.00	57.94	179.67	12293.11	38.68	-37.99	120.15	10.00	451178.54	757141.13	N 32.238438	W 103.635361	
	12500.00	67.94	179.67	12338.54	127.62	-126.93	120.66	10.00	451089.60	757141.65	N 32.238194	W 103.635361	

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 °)
	15400.00	90.00	179.67	12400.00	3020.50	-3019.76	137.32	0.00	448196.88	757158.30	N 32.230242	W 103.635368
	15500.00	90.00	179.67	12400.00	3120.50	-3119.76	137.89	0.00	448096.88	757158.88	N 32.229967	W 103.635368
	15600.00	90.00	179.67	12400.00	3220.50	-3219.76	138.47	0.00	447996.89	757159.46	N 32.229692	W 103.635369
	15700.00	90.00	179.67	12400.00	3320.50	-3319.76	139.05	0.00	447896.89	757160.03	N 32.229418	W 103.635369
	15800.00	90.00	179.67	12400.00	3420.50	-3419.76	139.62	0.00	447796.90	757160.61	N 32.229143	W 103.635369
	15900.00	90.00	179.67	12400.00	3520.50	-3519.75	140.20	0.00	447696.91	757161.18	N 32.228868	W 103.635369
	16000.00	90.00	179.67	12400.00	3620.50	-3619.75	140.77	0.00	447596.91	757161.76	N 32.228593	W 103.635370
	16100.00	90.00	179.67	12400.00	3720.50	-3719.75	141.35	0.00	447496.92	757162.33	N 32.228318	W 103.635370
	16200.00	90.00	179.67	12400.00	3820.50	-3819.75	141.93	0.00	447396.92	757162.91	N 32.228043	W 103.635370
	16300.00	90.00	179.67	12400.00	3920.50	-3919.75	142.50	0.00	447296.93	757163.49	N 32.227768	W 103.635370
	16400.00	90.00	179.67	12400.00	4020.50	-4019.75	143.08	0.00	447196.93	757164.06	N 32.227493	W 103.635370
	16500.00	90.00	179.67	12400.00	4120.50	-4119.74	143.65	0.00	447096.94	757164.64	N 32.227219	W 103.635371
	16600.00	90.00	179.67	12400.00	4220.50	-4219.74	144.23	0.00	446996.94	757165.21	N 32.226944	W 103.635371
	16700.00	90.00	179.67	12400.00	4320.50	-4319.74	144.80	0.00	446896.95	757165.79	N 32.226669	W 103.635371
	16800.00	90.00	179.67	12400.00	4420.50	-4419.74	145.38	0.00	446796.96	757166.36	N 32.226394	W 103.635371
	16900.00	90.00	179.67	12400.00	4520.50	-4519.74	145.96	0.00	446696.96	757166.94	N 32.226119	W 103.635372
	17000.00	90.00	179.67	12400.00	4620.50	-4619.74	146.53	0.00	446596.97	757167.52	N 32.225844	W 103.635372
	17100.00	90.00	179.67	12400.00	4720.50	-4719.73	147.11	0.00	446496.97	757168.09	N 32.225569	W 103.635372
	17200.00	90.00	179.67	12400.00	4820.50	-4819.73	147.68	0.00	446396.98	757168.67	N 32.225295	W 103.635372
	17300.00	90.00	179.67	12400.00	4920.50	-4919.73	148.26	0.00	446296.98	757169.24	N 32.225020	W 103.635373
Section 12-13 Line, NMNM0002889 exit to NMNM0553548 enter Lease Crossing	17348.04	90.00	179.67	12400.00	4968.54	-4967.77	148.54	0.00	446248.95	757169.52	N 32.224888	W 103.635373
	17400.00	90.00	179.67	12400.00	5020.50	-5019.73	148.84	0.00	446196.99	757169.82	N 32.224745	W 103.635373
	17500.00	90.00	179.67	12400.00	5120.50	-5119.73	149.41	0.00	446097.00	757170.40	N 32.224470	W 103.635373
	17600.00	90.00	179.67	12400.00	5220.50	-5219.73	149.99	0.00	445997.00	757170.97	N 32.224195	W 103.635373
	17700.00	90.00	179.67	12400.00	5320.50	-5319.72	150.56	0.00	445897.01	757171.55	N 32.223920	W 103.635374
	17800.00	90.00	179.67	12400.00	5420.50	-5419.72	151.14	0.00	445797.01	757172.12	N 32.223645	W 103.635374
	17900.00	90.00	179.67	12400.00	5520.50	-5519.72	151.71	0.00	445697.02	757172.70	N 32.223370	W 103.635374
	18000.00	90.00	179.67	12400.00	5620.50	-5619.72	152.29	0.00	445597.02	757173.27	N 32.223096	W 103.635374
	18100.00	90.00	179.67	12400.00	5720.50	-5719.72	152.87	0.00	445497.03	757173.85	N 32.222821	W 103.635375
	18200.00	90.00	179.67	12400.00	5820.50	-5819.72	153.44	0.00	445397.03	757174.43	N 32.222546	W 103.635375
	18300.00	90.00	179.67	12400.00	5920.50	-5919.71	154.02	0.00	445297.04	757175.00	N 32.222271	W 103.635375
	18400.00	90.00	179.67	12400.00	6020.50	-6019.71	154.59	0.00	445197.05	757175.58	N 32.221996	W 103.635375
	18500.00	90.00	179.67	12400.00	6120.50	-6119.71	155.17	0.00	445097.05	757176.15	N 32.221721	W 103.635375
	18600.00	90.00	179.67	12400.00	6220.50	-6219.71	155.75	0.00	444997.06	757176.73	N 32.221446	W 103.635376
	18700.00	90.00	179.67	12400.00	6320.50	-6319.71	156.32	0.00	444897.06	757177.31	N 32.221172	W 103.635376
	18800.00	90.00	179.67	12400.00	6420.50	-6419.71	156.90	0.00	444797.07	757177.88	N 32.220897	W 103.635376
	18900.00	90.00	179.67	12400.00	6520.50	-6519.70	157.47	0.00	444697.07	757178.46	N 32.220622	W 103.635376
	19000.00	90.00	179.67	12400.00	6620.50	-6619.70	158.05	0.00	444597.08	757179.03	N 32.220347	W 103.635377
	19100.00	90.00	179.67	12400.00	6720.50	-6719.70	158.62	0.00	444497.09	757179.61	N 32.220072	W 103.635377
	19200.00	90.00	179.67	12400.00	6820.50	-6819.70	159.20	0.00	444397.09	757180.18	N 32.219797	W 103.635377
	19300.00	90.00	179.67	12400.00	6920.50	-6919.70	159.78	0.00	444297.10	757180.76	N 32.219522	W 103.635377
	19400.00	90.00	179.67	12400.00	7020.50	-7019.70	160.35	0.00	444197.10	757181.34	N 32.219248	W 103.635378
	19500.00	90.00	179.67	12400.00	7120.50	-7119.69	160.93	0.00	444097.11	757181.91	N 32.218973	W 103.635378
	19600.00	90.00	179.67	12400.00	7220.50	-7219.69	161.50	0.00	443997.11	757182.49	N 32.218698	W 103.635378
	19700.00	90.00	179.67	12400.00	7320.50	-7319.69	162.08	0.00	443897.12	757183.06	N 32.218423	W 103.635378
	19800.00	90.00	179.67	12400.00	7420.50	-7419.69	162.66	0.00	443797.12	757183.64	N 32.218148	W 103.635379
	19900.00	90.00	179.67	12400.00	7520.50	-7519.69	163.23	0.00	443697.13	757184.21	N 32.217873	W 103.635379
NMNM0553548 exit to NMNM0553642 enter Lease Crossing	19973.26	90.00	179.67	12400.00	7593.77	-7592.95	163.65	0.00	443623.87	757184.64	N 32.217672	W 103.635379
	20000.00	90.00	179.67	12400.00	7620.50	-7619.69	163.81	0.00	443597.14	757184.79	N 32.217598	W 103.635379
	20100.00	90.00	179.67	12400.00	7720.50	-7719.68	164.38	0.00	443497.14	757185.37	N 32.217323	W 103.635379
	20200.00	90.00	179.67	12400.00	7820.50	-7819.68	164.96	0.00	443397.15	757185.94	N 32.217049	W 103.635380
	20300.00	90.00	179.67	12400.00	7920.50	-7919.68	165.53	0.00	443297.15	757186.52	N 32.216774	W 103.635380
	20400.00	90.00	179.67	12400.00	8020.50	-8019.68	166.11	0.00	443197.16	757187.09	N 32.216499	W 103.635380
	20500.00	90.00	179.67	12400.00	8120.50	-8119.68	166.69	0.00	443097.16	757187.67	N 32.216224	W 103.635380
	20600.00	90.00	179.67	12400.00	8220.50	-8219.68	167.26	0.00	442997.17	757188.25	N 32.215949	W 103.635380
	20700.00	90.00	179.67	12400.00	8320.50	-8319.67	167.84	0.00	442897.18	757188.82	N 32.215674	W 103.635381
	20800.00	90.00	179.67	12400.00	8420.50	-8419.67	168.41	0.00	442797.18	757189.40	N 32.215399	W 103.635381
	20900.00	90.00	179.67	12400.00	8520.50	-8519.67	168.99	0.00	442697.19	757189.97	N 32.215125	W 103.635381
	21000.00	90.00	179.67	12400.00	8620.50	-8619.67	169.57	0.00	442597.19	757190.55	N 32.214850	W 103.635381
	21100.00	90.00	179.67	12400.00	8720.50	-8719.67	170.14	0.00	442497.20	757191.12	N 32.214575	W 103.635382
	21200.00	90.00	179.67	12400.00	8820.50	-8819.67	170.72	0.00	442397.20	757191.70	N 32.214300	W 103.635382
NMNM0553642 4 exit to NMNM1165746 80 enter Lease Crossing	21293.98	90.00	179.67	12400.00	8914.48	-8913.64	171.26	0.00	442303.23	757192.24	N 32.214042	W 103.635382
	21300.00	90.00	179.67	12400.00	8920.50	-8919.66	171.29	0.00	442297.21	757192.28	N 32.214025	W 103.635382
	21400.00	90.00	179.67	12400.00	9020.50	-9019.66	171					

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 °)
		1	26.000	22514.666	1/100.000	17.500	13.375		A001Mb_MWD		Dos Equis 12-13 Federal Com #9H / Cimarex Dos Equis 12-13	

District I
1625 N. French Dr., Hobbs, NM 88240
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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 164198

CONDITIONS

Operator: CIMAREX ENERGY CO. 600 N. Marienfeld Street Midland, TX 79701	OGRID: 215099
	Action Number: 164198
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

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