

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.

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 19,531 MD, 9600TVD

To: 22,602MD, 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 direction drilling survey and C-102.

Location of Well

0. SHL: NWNW / 330 FNL / 330 FWL / TWSP: 24S / RANGE: 32E / SECTION: 12 / LAT: 32.238545 / LONG: -103.635619 (TVD: 0 feet, MD: 0 feet)

PPP: NWSW / 2640 FNL / 330 FWL / TWSP: 24S / RANGE: 32E / SECTION: 13 / LAT: 32.2176444 / LONG: -103.635766 (TVD: 9600 feet, MD: 17000 feet)

PPP: NWNW / 0 FNL / 330 FWL / TWSP: 24S / RANGE: 32E / SECTION: 13 / LAT: 32.2250667 / LONG: -103.6357611 (TVD: 9600 feet, MD: 14300 feet)

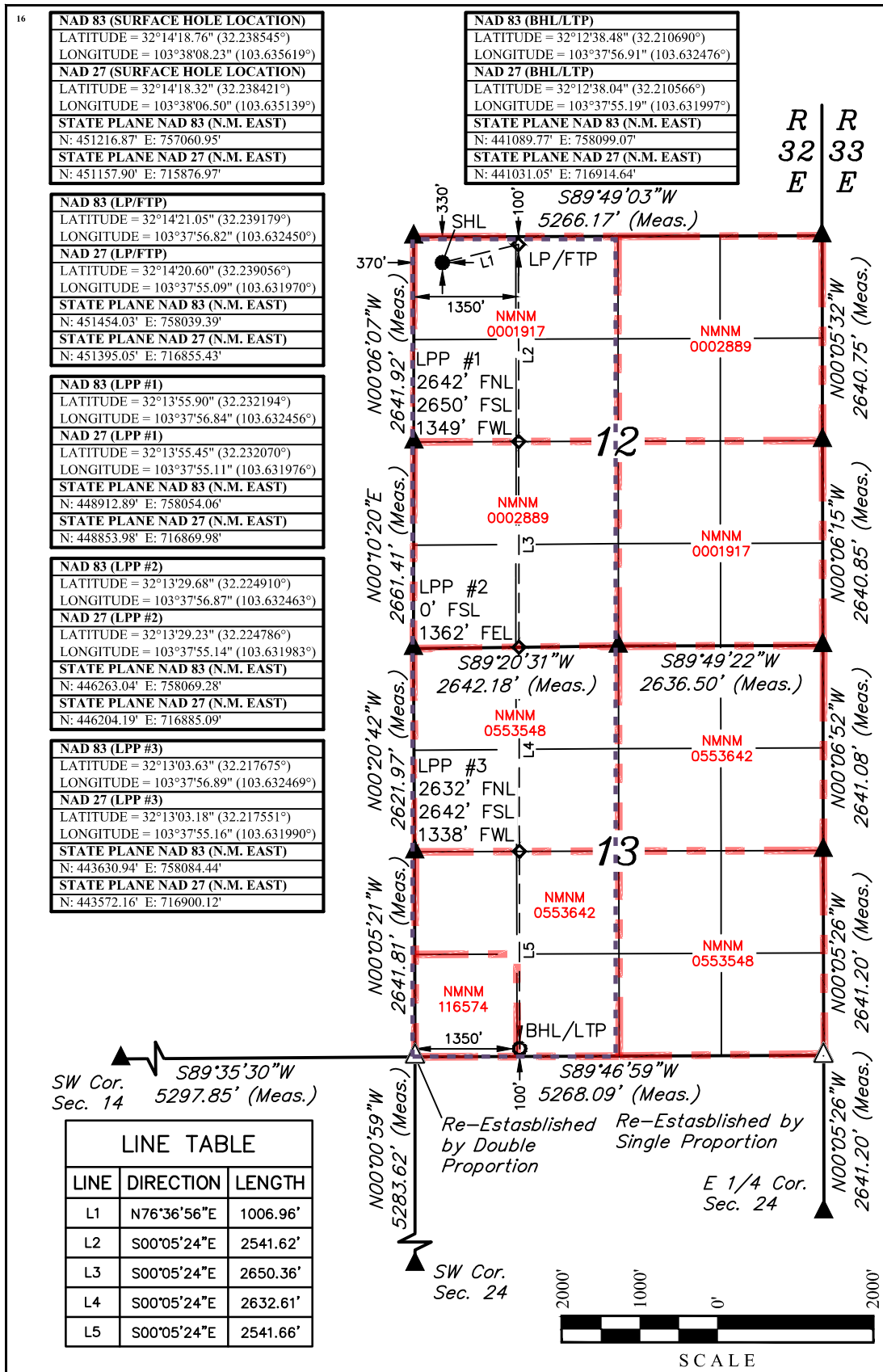
PPP: NWSW / 2641 FNL / 330 FWL / TWSP: 24S / RANGE: 32E / SECTION: 12 / LAT: 32.232211 / LONG: -103.6357555 (TVD: 9600 feet, MD: 11700 feet)

BHL: SWSW / 100 FSL / 450 FWL / TWSP: 24S / RANGE: 32E / SECTION: 13 / LAT: 32.210686 / LONG: -103.635773 (TVD: 12400 feet, MD: 22602 feet)

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

☐ AMENDED REPORT

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 8/25/2022
Date

Kanicia Schlichting
Printed Name

kanicia.schlichting@coterra.com
E-mail Address

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: _____



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: S.S. 10-26-17
REV: 5 08-04-22 T.J.S.
(WELL BORE CHANGES)

1. Geological Formations

TVD of target 12,400

Pilot Hole TD N/A

MD at TD 22,602

Deepest expected fresh water

Formation	Depth (TVD) from KB	Water/Mineral Bearing/Target Zone	Hazards
Rustler	1185	Useable Water	
Salado	1500	N/A	
Base of Salt	4650	N/A	
Delaware Sands	4920	Hydrocarbons	
Bone Spring	8865	Hydrocarbons	
Bone Spring Target	9600	Hydrocarbons	
1st Bone Spring Sand	9910	Hydrocarbons	
2nd Bone Spring Sand	10635	Hydrocarbons	
3rd Bone Spring Sand	11835	Hydrocarbons	
Wolfcamp	12245	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	3.01	5.97	12.78
9 7/8	0	12659	12361	7-5/8"	29.70	L-80	BT&C	2.48	1.19	1.81
6 3/4	0	11909	11909	5-1/2"	20.00	L-80	LT&C	1.14	1.19	1.86
6 3/4	11909	22602	12400	5"	18.00	P-110	BT&C	1.67	1.69	65.63
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 1H

	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	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	599	10.30	3.64	22.18		Lead: Tuned Light + LCM
	198	14.80	1.36	6.57	9.5	Tail: Class C + Retarder
Intermediate Stage 2	783	12.90	1.88	9.65	12	Lead: 35:65 (Poz:C) + Salt + Bentonite
Production	1300	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	12459	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.

	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'	FW Spud Mud	7.80 - 8.30	30-32	N/C
1215' to 12659'	Brine Diesel Emulsion	8.50 - 9.00	30-35	N/C
12659' to 22602'		12.00 - 12.50		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
---	-----------------------------

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
-------------------------	----------

7. Drilling Conditions

Condition	
BH Pressure at deepest TVD	8060 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 lock ring 2. Install BPV. 3. Skid rig. 4. Check for pressure and remove BPV. 5. Circulate down casing, taking returns through casing valves. 6. Pump lead and tail cement. 7. Displace cement and bump the plug. 8. Ensure floats are holding pressure. 9. RD cement crew. 10. Install BPV and TA cap.

Cimarex requests permission to skid the rig to the next well on the pad to begin operations instead of waiting 8 hours for surface cement to harden on this 1H well. Surface cement will be pumped and we will ensure floats hold, do a green cement test and then skid to the next well on pad. We will not perform any operations on this 1H well until at least 8 hours and when both tail and lead slurry reach 500 psi. The mandrel hanger is made up on the last joint of 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 1H 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.



Cimarex Dos Equis 12-13 Federal Com #1H Rev3 kFc 05Aug22 Proposal

Geodetic Report

(Def Plan)

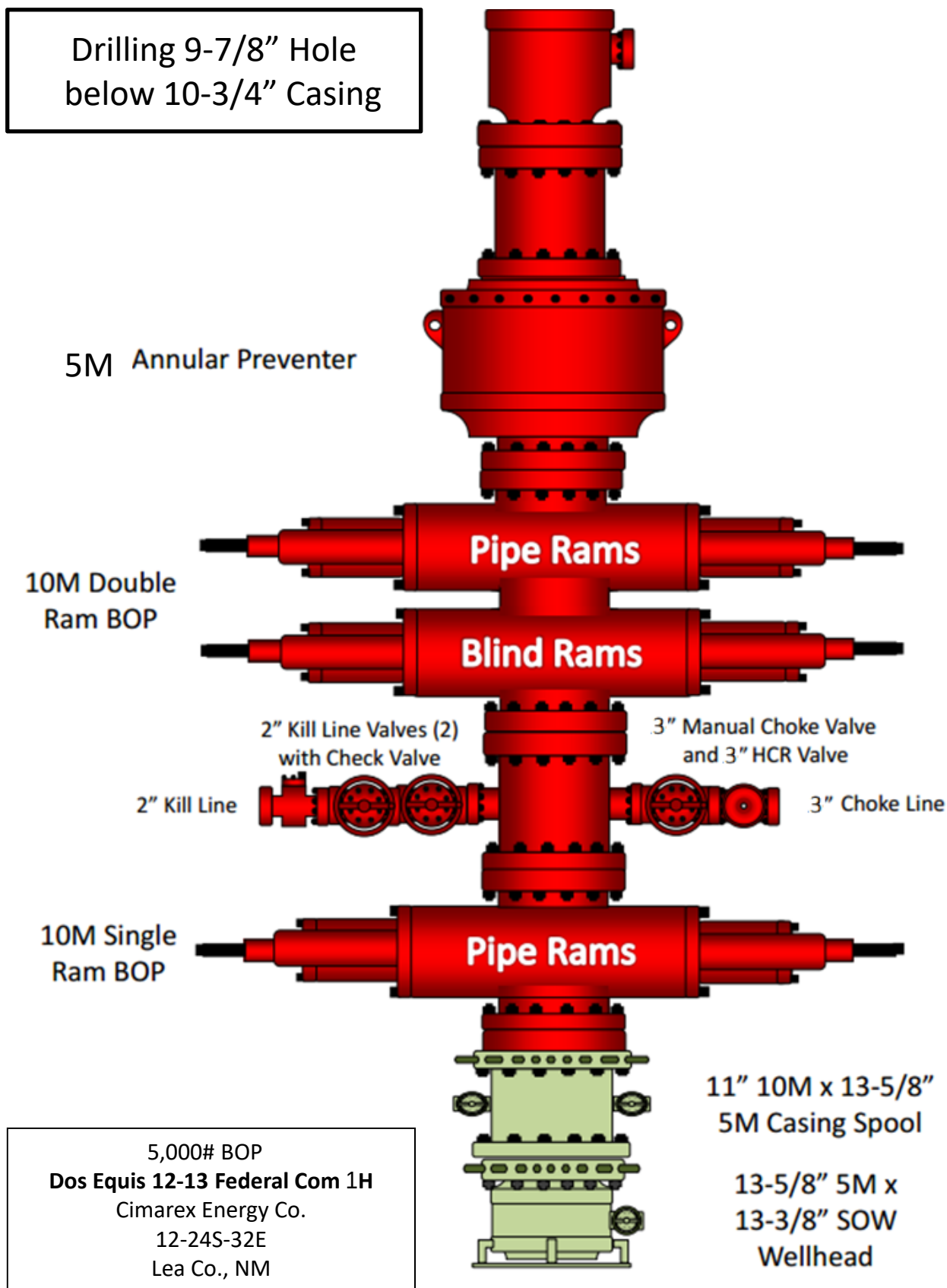


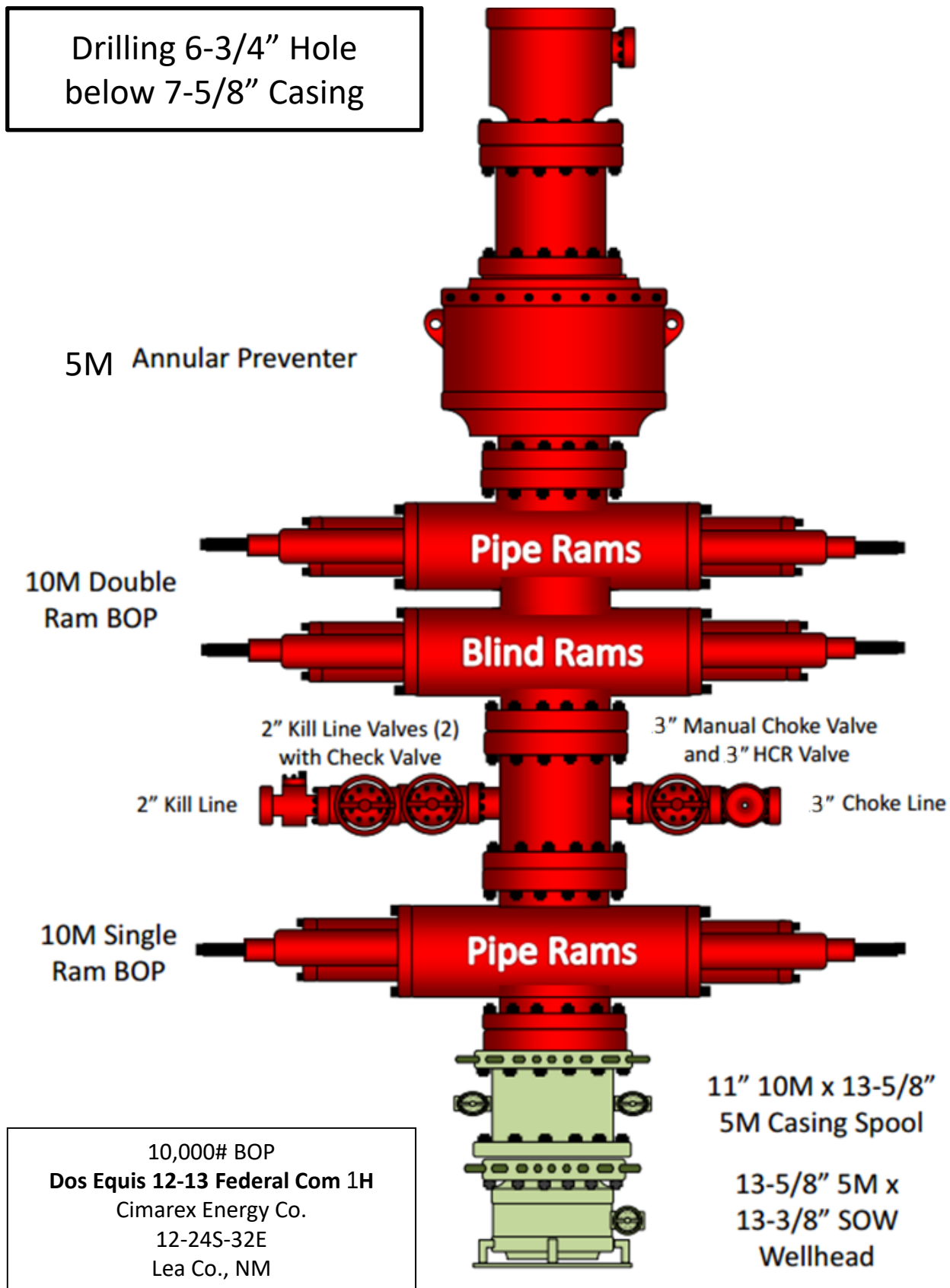
Report Date: August 05, 2022 - 02:30 PM Client: Cimarex Energy Field: NM Lea County (NAD 83) Structure / Slot: Cimarex Dos Equis 12-13 Federal Com #1H / 1H Well: Dos Equis 12-13 Federal Com #1H Borehole: Dos Equis 12-13 Federal Com #1H UWI / API#: Unknown / Unknown Survey Name: Cimarex Dos Equis 12-13 Federal Com #1H Rev3 kFc 05Aug22 Survey Date: December 20, 2018 Tort / AHD / DDI / ERD Ratio: 114.000 ° / 11371.601 ft / 6.373 / 0.917 Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet Location Lat / Long: N 32° 14' 18.76161", W 103° 38' 8.23009" Location Grid N/E Y/X: N 451216.870 ftUS, E 757060.950 ftUS CRS Grid Convergence Angle: 0.3722 ° Grid Scale Factor: 0.99996239 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: 3633.400 ft above MSL Seabed / Ground Elevation: 3607.400 ft above MSL Magnetic Declination: 6.328 ° Total Gravity Field Strength: 998.4378mgn (9.80665 Based) Gravity Model: GARM Total Magnetic Field Strength: 47574.050 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: 5.9560 ° Local Coord Referenced To: Well Head
--	---

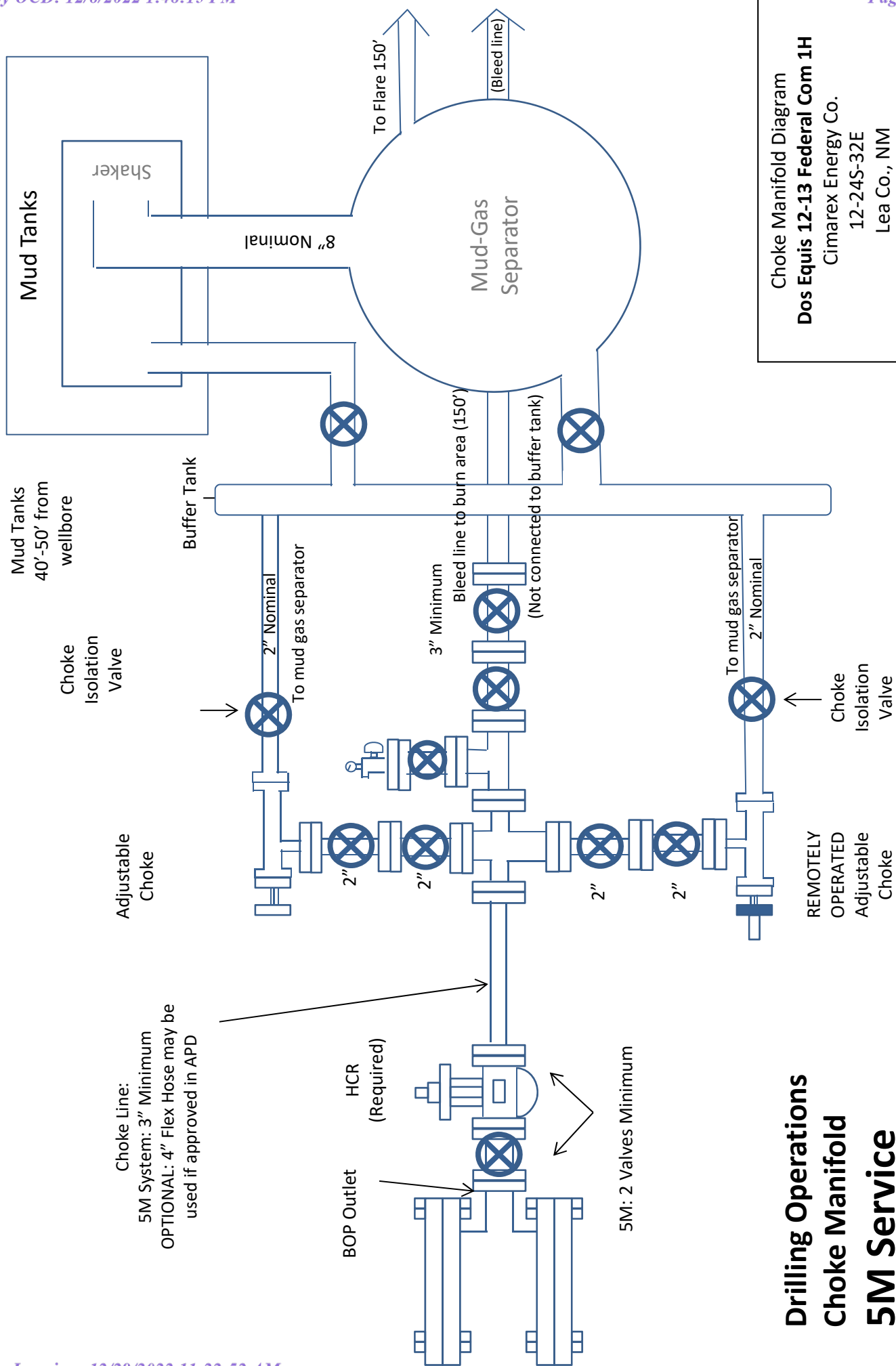
Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S °)	Longitude (E/W °)
SHL [330° FNL, 370° FWL]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	451216.87	757060.95	N 32.238545	W 103.635619
	100.00	0.00	76.38	100.00	0.00	0.00	0.00	0.00	451216.87	757060.95	N 32.238545	W 103.635619
	200.00	0.00	76.38	200.00	0.00	0.00	0.00	0.00	451216.87	757060.95	N 32.238545	W 103.635619
	300.00	0.00	76.38	300.00	0.00	0.00	0.00	0.00	451216.87	757060.95	N 32.238545	W 103.635619
	400.00	0.00	76.38	400.00	0.00	0.00	0.00	0.00	451216.87	757060.95	N 32.238545	W 103.635619
	500.00	0.00	76.38	500.00	0.00	0.00	0.00	0.00	451216.87	757060.95	N 32.238545	W 103.635619
	600.00	0.00	76.38	600.00	0.00	0.00	0.00	0.00	451216.87	757060.95	N 32.238545	W 103.635619
	700.00	0.00	76.38	700.00	0.00	0.00	0.00	0.00	451216.87	757060.95	N 32.238545	W 103.635619
	800.00	0.00	76.38	800.00	0.00	0.00	0.00	0.00	451216.87	757060.95	N 32.238545	W 103.635619
	900.00	0.00	76.38	900.00	0.00	0.00	0.00	0.00	451216.87	757060.95	N 32.238545	W 103.635619
	1000.00	0.00	76.38	1000.00	0.00	0.00	0.00	0.00	451216.87	757060.95	N 32.238545	W 103.635619
	1100.00	0.00	76.38	1100.00	0.00	0.00	0.00	0.00	451216.87	757060.95	N 32.238545	W 103.635619
Rustler	1185.00	0.00	76.38	1185.00	0.00	0.00	0.00	0.00	451216.87	757060.95	N 32.238545	W 103.635619
	1200.00	0.00	76.38	1200.00	0.00	0.00	0.00	0.00	451216.87	757060.95	N 32.238545	W 103.635619
	1300.00	0.00	76.38	1300.00	0.00	0.00	0.00	0.00	451216.87	757060.95	N 32.238545	W 103.635619
	1400.00	0.00	76.38	1400.00	0.00	0.00	0.00	0.00	451216.87	757060.95	N 32.238545	W 103.635619
Salado (Top Salt) Nudge, Build 2"/100ft	1500.00	0.00	76.38	1500.00	0.00	0.00	0.00	0.00	451216.87	757060.95	N 32.238545	W 103.635619
	1600.00	2.00	76.38	1599.98	-0.40	0.41	1.70	2.00	451217.28	757062.65	N 32.238546	W 103.635614
	1700.00	4.00	76.38	1699.84	-1.60	1.64	6.78	2.00	451218.51	757067.73	N 32.238549	W 103.635598
	1800.00	6.00	76.38	1799.45	-3.61	3.70	15.25	2.00	451220.57	757076.20	N 32.238555	W 103.635570
	1900.00	8.00	76.38	1898.70	-6.41	6.57	27.10	2.00	451223.44	757088.04	N 32.238562	W 103.635532
	2000.00	10.00	76.38	1997.47	-10.01	10.25	42.30	2.00	451227.12	757103.25	N 32.238572	W 103.635482
	2100.00	12.00	76.38	2095.62	-14.40	14.75	60.84	2.00	451231.62	757121.79	N 32.238584	W 103.635422
	2200.00	12.00	76.38	2193.44	-19.18	19.64	81.05	0.00	451236.51	757141.99	N 32.238597	W 103.635357
	2300.00	12.00	76.38	2291.25	-23.96	24.54	101.25	0.00	451241.41	757162.20	N 32.238611	W 103.635292
	2400.00	12.00	76.38	2389.07	-28.74	29.44	121.46	0.00	451246.31	757182.40	N 32.238624	W 103.635226
	2500.00	12.00	76.38	2486.88	-33.52	34.34	141.67	0.00	451251.20	757202.61	N 32.238637	W 103.635161
	2600.00	12.00	76.38	2584.70	-38.30	39.23	161.87	0.00	451256.10	757222.82	N 32.238650	W 103.635095
	2700.00	12.00	76.38	2682.51	-43.08	44.13	182.08	0.00	451261.00	757243.02	N 32.238663	W 103.635030
	2800.00	12.00	76.38	2780.33	-47.86	49.03	202.28	0.00	451265.90	757263.23	N 32.238676	W 103.634964
	2900.00	12.00	76.38	2878.14	-52.64	53.92	222.49	0.00	451270.79	757283.43	N 32.238689	W 103.634899
	3000.00	12.00	76.38	2975.96	-57.42	58.82	242.70	0.00	451275.69	757303.64	N 32.238702	W 103.634833
	3100.00	12.00	76.38	3073.77	-62.20	63.72	262.90	0.00	451280.59	757323.84	N 32.238715	W 103.634768
	3200.00	12.00	76.38	3171.59	-66.98	68.62	283.11	0.00	451285.48	757344.05	N 32.238728	W 103.634702
	3300.00	12.00	76.38	3269.40	-71.77	73.51	303.31	0.00	451290.38	757364.25	N 32.238742	W 103.634637
	3400.00	12.00	76.38	3367.22	-76.55	78.41	323.52	0.00	451295.28	757384.46	N 32.238755	W 103.634572
	3500.00	12.00	76.38	3465.03	-81.33	83.31	343.73	0.00	451300.18	757404.66	N 32.238768	W 103.634506
	3600.00	12.00	76.38	3562.84	-86.11	88.21	363.93	0.00	451305.07	757424.87	N 32.238781	W 103.634441
	3700.00	12.00	76.38	3660.66	-90.89	93.10	384.14	0.00	451309.97	757445.07	N 32.238794	W 103.634375
	3800.00	12.00	76.38	3758.47	-95.67	98.00	404.35	0.00	451314.87	757465.28	N 32.238807	W 103.634310
	3900.00	12.00	76.38	3856.29	-100.45	102.90	424.55	0.00	451319.76	757485.48	N 32.238820	W 103.634244
	4000.00	12.00	76.38	3954.10	-105.23	107.80	444.76	0.00	451324.66	757505.69	N 32.238833	W 103.634179
	4100.00	12.00	76.38	4051.92	-110.01	112.69	464.96	0.00	451329.56	757525.90	N 32.238846	W 103.634113
	4200.00	12.00	76.38	4149.73	-114.79	117.59	485.17	0.00	451334.46	757546.10	N 32.238859	W 103.634048
	4300.00	12.00	76.38	4247.55	-119.57	122.49	505.38	0.00	451339.35	757566.31	N 32.238873	W 103.633983
	4400.00	12.00	76.38	4345.36	-124.36	127.38	525.58	0.00	451344.25	757586.51	N 32.238886	W 103.633917
	4500.00	12.00	76.38	4443.18	-129.14	132.28	545.79	0.00	451349.15	757606.72	N 32.238899	W 103.633852
	4600.00	12.00	76.38	4540.99	-133.92	137.18	565.99	0.00	451354.04	757626.92	N 32.238912	W 103.633786
	4700.00	12.00	76.38	4638.81	-138.70	142.08	586.20	0.00	451358.94	757647.13	N 32.238925	W 103.633721
Base of Salt	4711.44	12.00	76.38	4650.00	-139.24	142.64	588.51	0.00	451359.50	757649.44	N 32.238926	W 103.633713
	4800.00	12.00	76.38	4736.62	-143.48	146.97	606.41	0.00	451363.84	757667.33	N 32.238938	W 103.633655
	4900.00	12.00	76.38	4834.44	-148.26	151.87	626.61	0.00	451368.74	757687.54	N 32.238951	W 103.633590
Delaware Sands	4987.48	12.00	76.38	4920.00	-152.44	156.16	644.29	0.00	451373.02	757705.21	N 32.238963	W 103.633533
	5000.00	12.00	76.38	4932.25	-153.04	156.77	646.82	0.00	451373.63	757707.74	N 32.238964	W 103.633524
	5100.00	12.00	76.38	5030.07	-157.82	161.67	667.03	0.00	451378.53	757727.95	N 32.238977	W 103.633459
	5200.00	12.00	76.38	5127.88	-162.60	166.56	687.23	0.00	451383.43	757748.15	N 32.238990	W 103.633393
	5300.00	12.00	76.38	5225.70	-167.38	171.46	707.44	0.00	451388.32	757768.36	N 32.239004	W 103.633328
	5400.00	12.00	76.38	5323.51	-172.16	176.36	727.64	0.00	451393.22	757788.57	N 32.239017	W 103.633263
	5500.00	12.00	76.38	5421.33	-176.94	181.26	747.85	0.00	451398.12	757808.77	N 32.239030	W 103.633197
	5600.00	12.00	76.38	5519.14	-181.73	186.15	768.06	0.00	451403.02	757828.98	N 32.239043	W 103.633132
	5700.00	12.00	76.38	5616.95	-186.51	191.05	788.26	0.00	451407.91	757849.18	N 32.239056	W 103.633066
	5800.00	12.00	76.38	5714.77	-191.29	195.95	808.47	0.00	451412.81	757869.39	N 32.239069	W 103.633001
	5900.00	12.00	76.38	5812.58	-196.07	200.84	828.67	0.00	451417.71	757889.59	N 32.239082	W 103.632935
	6000.00	12.00	76.38	5910.40	-200.85	205.74	848.88	0.00	451422.60	757909.80	N 32.239095	W 103.632870
	6100.00	12.00	76.38	6008.21	-205.63	210.64	869.09	0.00	451427.50	757930.00	N 32.239108	W 103.632804
	6200.00	12.00	76.38	6106.03	-210.41	215.54	889.29	0.00	451432.40	757950.21	N 32.239121	W 103.632739
	6300.00	12.00	76.38	6203.84	-215.19	220.43	909.50	0.00	451437.29	757970.41	N 32.239134	W 103.632674
Drop 2"/100ft	6340.23	12.00	76.38	6243.20	-217.12	222.40	917.63	0.00	451439.27	757978.54	N 32.239140	W 103.632647
	6400.00	10.80	76.38	6301.78	-219.83	225.19	929.11	2.00	451442.05	757990.03	N 32.239147	W 103.632610
	6500.00	8.80	76.38	6400.32	-223.75	229.20	945.66	2.00	451446.06	758006.57	N 32.239158	W 103.632556
	6600.00	6.80	76.38	6499.39	-226.87	232.40	958.86	2.00	451449.26	758019.77	N 32.239166	W 103.632514
	6700.00	4.80	76.38	6598.87	-229.20	234.78	968.69	2.00	451451.64	758029.60	N 32.239173	W 103.632482
	6800.00	2.80	76.38	6698.64	-230.72	236.34	975.14	2.00	451453.20	758036.05	N 32.239177	W 103.632461

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 °)	
Hold	6900.00	0.80	76.38	6798.59	-231.45	237.08	978.20	2.00	451453.94	758039.11	N 32.239179	W 103.632451	
	6940.23	0.00	76.38	6838.82	-231.51	237.15	978.47	2.00	451454.01	758039.38	N 32.239179	W 103.632450	
	7000.00	0.00	76.38	6898.59	-231.51	237.15	978.47	0.00	451454.01	758039.38	N 32.239179	W 103.632450	
	7100.00	0.00	76.38	6998.59	-231.51	237.15	978.47	0.00	451454.01	758039.38	N 32.239179	W 103.632450	
	7200.00	0.00	76.38	7098.59	-231.51	237.15	978.47	0.00	451454.01	758039.38	N 32.239179	W 103.632450	
	7300.00	0.00	76.38	7198.59	-231.51	237.15	978.47	0.00	451454.01	758039.38	N 32.239179	W 103.632450	
	7400.00	0.00	76.38	7298.59	-231.51	237.15	978.47	0.00	451454.01	758039.38	N 32.239179	W 103.632450	
	7500.00	0.00	76.38	7398.59	-231.51	237.15	978.47	0.00	451454.01	758039.38	N 32.239179	W 103.632450	
	7600.00	0.00	76.38	7498.59	-231.51	237.15	978.47	0.00	451454.01	758039.38	N 32.239179	W 103.632450	
	7700.00	0.00	76.38	7598.59	-231.51	237.15	978.47	0.00	451454.01	758039.38	N 32.239179	W 103.632450	
	7800.00	0.00	76.38	7698.59	-231.51	237.15	978.47	0.00	451454.01	758039.38	N 32.239179	W 103.632450	
	7900.00	0.00	76.38	7798.59	-231.51	237.15	978.47	0.00	451454.01	758039.38	N 32.239179	W 103.632450	
	8000.00	0.00	76.38	7898.59	-231.51	237.15	978.47	0.00	451454.01	758039.38	N 32.239179	W 103.632450	
	8100.00	0.00	76.38	7998.59	-231.51	237.15	978.47	0.00	451454.01	758039.38	N 32.239179	W 103.632450	
	8200.00	0.00	76.38	8098.59	-231.51	237.15	978.47	0.00	451454.01	758039.38	N 32.239179	W 103.632450	
	8300.00	0.00	76.38	8198.59	-231.51	237.15	978.47	0.00	451454.01	758039.38	N 32.239179	W 103.632450	
	8400.00	0.00	76.38	8298.59	-231.51	237.15	978.47	0.00	451454.01	758039.38	N 32.239179	W 103.632450	
	8500.00	0.00	76.38	8398.59	-231.51	237.15	978.47	0.00	451454.01	758039.38	N 32.239179	W 103.632450	
	8600.00	0.00	76.38	8498.59	-231.51	237.15	978.47	0.00	451454.01	758039.38	N 32.239179	W 103.632450	
	8700.00	0.00	76.38	8598.59	-231.51	237.15	978.47	0.00	451454.01	758039.38	N 32.239179	W 103.632450	
	8800.00	0.00	76.38	8698.59	-231.51	237.15	978.47	0.00	451454.01	758039.38	N 32.239179	W 103.632450	
Bone Spring	8900.00	0.00	76.38	8798.59	-231.51	237.15	978.47	0.00	451454.01	758039.38	N 32.239179	W 103.632450	
	8916.41	0.00	76.38	8815.00	-231.51	237.15	978.47	0.00	451454.01	758039.38	N 32.239179	W 103.632450	
	9000.00	0.00	76.38	8898.59	-231.51	237.15	978.47	0.00	451454.01	758039.38	N 32.239179	W 103.632450	
	9100.00	0.00	76.38	8998.59	-231.51	237.15	978.47	0.00	451454.01	758039.38	N 32.239179	W 103.632450	
	9200.00	0.00	76.38	9098.59	-231.51	237.15	978.47	0.00	451454.01	758039.38	N 32.239179	W 103.632450	
	9300.00	0.00	76.38	9198.59	-231.51	237.15	978.47	0.00	451454.01	758039.38	N 32.239179	W 103.632450	
	9400.00	0.00	76.38	9298.59	-231.51	237.15	978.47	0.00	451454.01	758039.38	N 32.239179	W 103.632450	
	9500.00	0.00	76.38	9398.59	-231.51	237.15	978.47	0.00	451454.01	758039.38	N 32.239179	W 103.632450	
	9600.00	0.00	76.38	9498.59	-231.51	237.15	978.47	0.00	451454.01	758039.38	N 32.239179	W 103.632450	
	9700.00	0.00	76.38	9598.59	-231.51	237.15	978.47	0.00	451454.01	758039.38	N 32.239179	W 103.632450	
	9800.00	0.00	76.38	9698.59	-231.51	237.15	978.47	0.00	451454.01	758039.38	N 32.239179	W 103.632450	
	9900.00	0.00	76.38	9798.59	-231.51	237.15	978.47	0.00	451454.01	758039.38	N 32.239179	W 103.632450	
10000.00	0.00	76.38	9898.59	-231.51	237.15	978.47	0.00	451454.01	758039.38	N 32.239179	W 103.632450		
1st Bone Spring Sand	10011.41	0.00	76.38	9910.00	-231.51	237.15	978.47	0.00	451454.01	758039.38	N 32.239179	W 103.632450	
	10100.00	0.00	76.38	9998.59	-231.51	237.15	978.47	0.00	451454.01	758039.38	N 32.239179	W 103.632450	
	10200.00	0.00	76.38	10098.59	-231.51	237.15	978.47	0.00	451454.01	758039.38	N 32.239179	W 103.632450	
	10300.00	0.00	76.38	10198.59	-231.51	237.15	978.47	0.00	451454.01	758039.38	N 32.239179	W 103.632450	
	10400.00	0.00	76.38	10298.59	-231.51	237.15	978.47	0.00	451454.01	758039.38	N 32.239179	W 103.632450	
	10500.00	0.00	76.38	10398.59	-231.51	237.15	978.47	0.00	451454.01	758039.38	N 32.239179	W 103.632450	
	10600.00	0.00	76.38	10498.59	-231.51	237.15	978.47	0.00	451454.01	758039.38	N 32.239179	W 103.632450	
	10700.00	0.00	76.38	10598.59	-231.51	237.15	978.47	0.00	451454.01	758039.38	N 32.239179	W 103.632450	
	2nd Bone Spring Sand	10736.41	0.00	76.38	10635.00	-231.51	237.15	978.47	0.00	451454.01	758039.38	N 32.239179	W 103.632450
		10800.00	0.00	76.38	10698.59	-231.51	237.15	978.47	0.00	451454.01	758039.38	N 32.239179	W 103.632450
		10900.00	0.00	76.38	10798.59	-231.51	237.15	978.47	0.00	451454.01	758039.38	N 32.239179	W 103.632450
		11000.00	0.00	76.38	10898.59	-231.51	237.15	978.47	0.00	451454.01	758039.38	N 32.239179	W 103.632450
		11100.00	0.00	76.38	10998.59	-231.51	237.15	978.47	0.00	451454.01	758039.38	N 32.239179	W 103.632450
3rd Bone Spring Carb		11186.41	0.00	76.38	11085.00	-231.51	237.15	978.47	0.00	451454.01	758039.38	N 32.239179	W 103.632450
	11200.00	0.00	76.38	11098.59	-231.51	237.15	978.47	0.00	451454.01	758039.38	N 32.239179	W 103.632450	
	11300.00	0.00	76.38	11198.59	-231.51	237.15	978.47	0.00	451454.01	758039.38	N 32.239179	W 103.632450	
	11400.00	0.00	76.38	11298.59	-231.51	237.15	978.47	0.00	451454.01	758039.38	N 32.239179	W 103.632450	
	11500.00	0.00	76.38	11398.59	-231.51	237.15	978.47	0.00	451454.01	758039.38	N 32.239179	W 103.632450	
	11600.00	0.00	76.38	11498.59	-231.51	237.15	978.47	0.00	451454.01	758039.38	N 32.239179	W 103.632450	
	11700.00	0.00	76.38	11598.59	-231.51	237.15	978.47	0.00	451454.01	758039.38	N 32.239179	W 103.632450	
	11800.00	0.00	76.38	11698.59	-231.51	237.15	978.47	0.00	451454.01	758039.38	N 32.239179	W 103.632450	
	11900.00	0.00	76.38	11798.59	-231.51	237.15	978.47	0.00	451454.01	758039.38	N 32.239179	W 103.632450	
	KOP, Build 10"/100ft	11908.93	0.00	76.38	11807.52	-231.51	237.15	978.47	0.00	451454.01	758039.38	N 32.239179	W 103.632450
	3rd Bone Spring Sand	11936.42	2.75	179.67	11835.00	-230.85	236.49	978.47	10.00	451453.35	758039.39	N 32.239177	W 103.632450
		12000.00	9.11	179.67	11898.20	-224.29	229.93	978.51	10.00	451446.79	758039.42	N 32.239159	W 103.632450
		12100.00	19.11	179.67	11995.07	-199.95	205.59	978.65	10.00	451422.45	758039.56	N 32.239092	W 103.632450
12200.00		29.11	179.67	12086.23	-159.15	164.80	978.89	10.00	451381.66	758039.80	N 32.238980	W 103.632450	
12300.00		39.11	179.67	12168.92	-103.15	108.79	979.21	10.00	451325.66	758040.12	N 32.238826	W 103.632450	
12400.00		49.11	179.67	12240.64	-33.64	39.28	979.61	10.00	451256.15	758040.52	N 32.238635	W 103.632451	
12406.71		49.78	179.67	12245.00	-28.54	34.18	979.64	10.00	451251.05	758040.55	N 32.238621	W 103.632451	
12500.00		59.11	179.67	12299.19	47.27	-41.62	980.08	10.00	451175.25	758040.99	N 32.238413	W 103.632451	
12600.00		69.11	179.67	12342.80	137.11	-131.47	980.59	10.00	451085.41	758041.50	N 32.238166	W 103.632451	
Build 5"/100ft		12658.93	75.00	179.67	12360.95	193.15	-187.51	980.92	10.00	451029.37	75		

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 °)
	15600.00	90.00	179.67	12400.00	3130.81	-3125.11	997.84	0.00	448091.88	758058.75	N 32.229937	W 103.632458
	15700.00	90.00	179.67	12400.00	3230.81	-3225.11	998.41	0.00	447991.89	758059.32	N 32.229663	W 103.632459
	15800.00	90.00	179.67	12400.00	3330.81	-3325.11	998.99	0.00	447891.89	758059.90	N 32.229388	W 103.632459
	15900.00	90.00	179.67	12400.00	3430.81	-3425.11	999.56	0.00	447791.90	758060.47	N 32.229113	W 103.632459
	16000.00	90.00	179.67	12400.00	3530.81	-3525.10	1000.14	0.00	447691.90	758061.05	N 32.228838	W 103.632459
	16100.00	90.00	179.67	12400.00	3630.81	-3625.10	1000.72	0.00	447591.91	758061.63	N 32.228563	W 103.632460
	16200.00	90.00	179.67	12400.00	3730.81	-3725.10	1001.29	0.00	447491.92	758062.20	N 32.228288	W 103.632460
	16300.00	90.00	179.67	12400.00	3830.81	-3825.10	1001.87	0.00	447391.92	758062.78	N 32.228013	W 103.632460
	16400.00	90.00	179.67	12400.00	3930.81	-3925.10	1002.44	0.00	447291.93	758063.35	N 32.227738	W 103.632460
	16500.00	90.00	179.67	12400.00	4030.81	-4025.10	1003.02	0.00	447191.93	758063.93	N 32.227464	W 103.632461
	16600.00	90.00	179.67	12400.00	4130.81	-4125.09	1003.60	0.00	447091.94	758064.51	N 32.227189	W 103.632461
	16700.00	90.00	179.67	12400.00	4230.81	-4225.09	1004.17	0.00	446991.94	758065.08	N 32.226914	W 103.632461
	16800.00	90.00	179.67	12400.00	4330.81	-4325.09	1004.75	0.00	446891.95	758065.66	N 32.226639	W 103.632461
	16900.00	90.00	179.67	12400.00	4430.81	-4425.09	1005.32	0.00	446791.96	758066.23	N 32.226364	W 103.632462
	17000.00	90.00	179.67	12400.00	4530.81	-4525.09	1005.90	0.00	446691.96	758066.81	N 32.226089	W 103.632462
	17100.00	90.00	179.67	12400.00	4630.81	-4625.09	1006.48	0.00	446591.97	758067.39	N 32.225814	W 103.632462
	17200.00	90.00	179.67	12400.00	4730.81	-4725.08	1007.05	0.00	446491.97	758067.96	N 32.225540	W 103.632462
	17300.00	90.00	179.67	12400.00	4830.81	-4825.08	1007.63	0.00	446391.98	758068.54	N 32.225265	W 103.632463
	17400.00	90.00	179.67	12400.00	4930.81	-4925.08	1008.20	0.00	446291.98	758069.11	N 32.224990	W 103.632463
	Section 12-13 Line, NMNM0002889 exit to NMNM0553548 enter Lease Crossing											
17428.92	90.00	179.67	12400.00	4959.73	-4954.00	1008.37	0.00	446263.07	758069.28	N 32.224910	W 103.632463	
	17500.00	90.00	179.67	12400.00	5030.81	-5025.08	1008.78	0.00	446191.99	758069.69	N 32.224715	W 103.632463
	17600.00	90.00	179.67	12400.00	5130.81	-5125.08	1009.36	0.00	446091.99	758070.27	N 32.224440	W 103.632463
	17700.00	90.00	179.67	12400.00	5230.81	-5225.08	1009.93	0.00	445992.00	758070.84	N 32.224165	W 103.632464
	17800.00	90.00	179.67	12400.00	5330.81	-5325.07	1010.51	0.00	445892.01	758071.42	N 32.223890	W 103.632464
	17900.00	90.00	179.67	12400.00	5430.81	-5425.07	1011.08	0.00	445792.01	758071.99	N 32.223615	W 103.632464
	18000.00	90.00	179.67	12400.00	5530.81	-5525.07	1011.66	0.00	445692.02	758072.57	N 32.223341	W 103.632464
	18100.00	90.00	179.67	12400.00	5630.81	-5625.07	1012.24	0.00	445592.02	758073.15	N 32.223066	W 103.632465
	18200.00	90.00	179.67	12400.00	5730.81	-5725.07	1012.81	0.00	445492.03	758073.72	N 32.222791	W 103.632465
	18300.00	90.00	179.67	12400.00	5830.81	-5825.07	1013.39	0.00	445392.03	758074.30	N 32.222516	W 103.632465
	18400.00	90.00	179.67	12400.00	5930.81	-5925.07	1013.96	0.00	445292.04	758074.87	N 32.222241	W 103.632465
	18500.00	90.00	179.67	12400.00	6030.81	-6025.06	1014.54	0.00	445192.05	758075.45	N 32.221966	W 103.632466
	18600.00	90.00	179.67	12400.00	6130.81	-6125.06	1015.12	0.00	445092.05	758076.03	N 32.221691	W 103.632466
	18700.00	90.00	179.67	12400.00	6230.81	-6225.06	1015.69	0.00	444992.06	758076.60	N 32.221417	W 103.632466
	18800.00	90.00	179.67	12400.00	6330.81	-6325.06	1016.27	0.00	444892.06	758077.18	N 32.221142	W 103.632466
	18900.00	90.00	179.67	12400.00	6430.81	-6425.06	1016.84	0.00	444792.07	758077.75	N 32.220867	W 103.632467
	19000.00	90.00	179.67	12400.00	6530.81	-6525.06	1017.42	0.00	444692.07	758078.33	N 32.220592	W 103.632467
	19100.00	90.00	179.67	12400.00	6630.81	-6625.05	1018.00	0.00	444592.08	758078.91	N 32.220317	W 103.632467
	19200.00	90.00	179.67	12400.00	6730.81	-6725.05	1018.57	0.00	444492.08	758079.48	N 32.220042	W 103.632467
	19300.00	90.00	179.67	12400.00	6830.81	-6825.05	1019.15	0.00	444392.09	758080.06	N 32.219767	W 103.632468
	19400.00	90.00	179.67	12400.00	6930.81	-6925.05	1019.72	0.00	444292.10	758080.63	N 32.219493	W 103.632468
19500.00	90.00	179.67	12400.00	7030.81	-7025.05	1020.30	0.00	444192.10	758081.21	N 32.219218	W 103.632468	
19600.00	90.00	179.67	12400.00	7130.81	-7125.05	1020.88	0.00	444092.11	758081.79	N 32.218943	W 103.632468	
19700.00	90.00	179.67	12400.00	7230.81	-7225.04	1021.45	0.00	443992.11	758082.36	N 32.218668	W 103.632469	
19800.00	90.00	179.67	12400.00	7330.81	-7325.04	1022.03	0.00	443892.12	758082.94	N 32.218393	W 103.632469	
19900.00	90.00	179.67	12400.00	7430.81	-7425.04	1022.60	0.00	443792.12	758083.51	N 32.218118	W 103.632469	
20000.00	90.00	179.67	12400.00	7530.81	-7525.04	1023.18	0.00	443692.13	758084.09	N 32.217843	W 103.632469	
NMNM0553548 exit to NMNM0553642 enter Lease Crossing												
20061.19	90.00	179.67	12400.00	7592.00	-7586.23	1023.53	0.00	443630.94	758084.44	N 32.217675	W 103.632469	
	20100.00	90.00	179.67	12400.00	7630.81	-7625.04	1023.76	0.00	443592.14	758084.67	N 32.217568	W 103.632470
	20200.00	90.00	179.67	12400.00	7730.81	-7725.04	1024.33	0.00	443492.14	758085.24	N 32.217294	W 103.632470
	20300.00	90.00	179.67	12400.00	7830.81	-7825.03	1024.91	0.00	443392.15	758085.82	N 32.217019	W 103.632470
	20400.00	90.00	179.67	12400.00	7930.81	-7925.03	1025.48	0.00	443292.15	758086.39	N 32.216744	W 103.632470
	20500.00	90.00	179.67	12400.00	8030.81	-8025.03	1026.06	0.00	443192.16	758086.97	N 32.216469	W 103.632471
	20600.00	90.00	179.67	12400.00	8130.81	-8125.03	1026.64	0.00	443092.16	758087.55	N 32.216194	W 103.632471
	20700.00	90.00	179.67	12400.00	8230.81	-8225.03	1027.21	0.00	442992.17	758088.12	N 32.215919	W 103.632471
	20800.00	90.00	179.67	12400.00	8330.81	-8325.03	1027.79	0.00	442892.17	758088.70	N 32.215644	W 103.632471
	20900.00	90.00	179.67	12400.00	8430.81	-8425.02	1028.36	0.00	442792.18	758089.27	N 32.215370	W 103.632472
	21000.00	90.00	179.67	12400.00	8530.81	-8525.02	1028.94	0.00	442692.19	758089.85	N 32.215095	W 103.632472
	21100.00	90.00	179.67	12400.00	8630.81	-8625.02	1029.52	0.00	442592.19	758090.43	N 32.214820	W 103.632472
	21200.00	90.00	179.67	12400.00	8730.81	-8725.02	1030.09	0.00	442492.20	758091.00	N 32.214545	W 103.632472
	21300.00	90.00	179.67	12400.00	8830.81	-8825.02	1030.67	0.00	442392.20	758091.58	N 32.214270	W 103.632473
	21400.00	90.00	179.67	12400.00	8930.81	-8925.02	1031.24	0.00	442292.21	758092.15	N 32.213995	W 103.632473
	21500.00	90.00	179.67	12400.00	9030.81	-9025.01	1031.82	0.00	442192.21	758092.73	N 32.213720	W 103.632473
	21600.00	90.00	179.67	12400.00	9130.81	-9125.01	1032.40	0.00	442092.22	758093.30	N 32.213445	W 103.632473
	21700.00	90.00	179.67	12400.00	9230.81	-9225.01	1032.97	0.00	441992.23	758093.88	N 32.213171	W 103.632473
	21800.00	90.00	179.67	12400.00	9330.81	-9325.01	1033.55	0.00	441892.23	758094.46	N 32.212896	W 103.6324







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

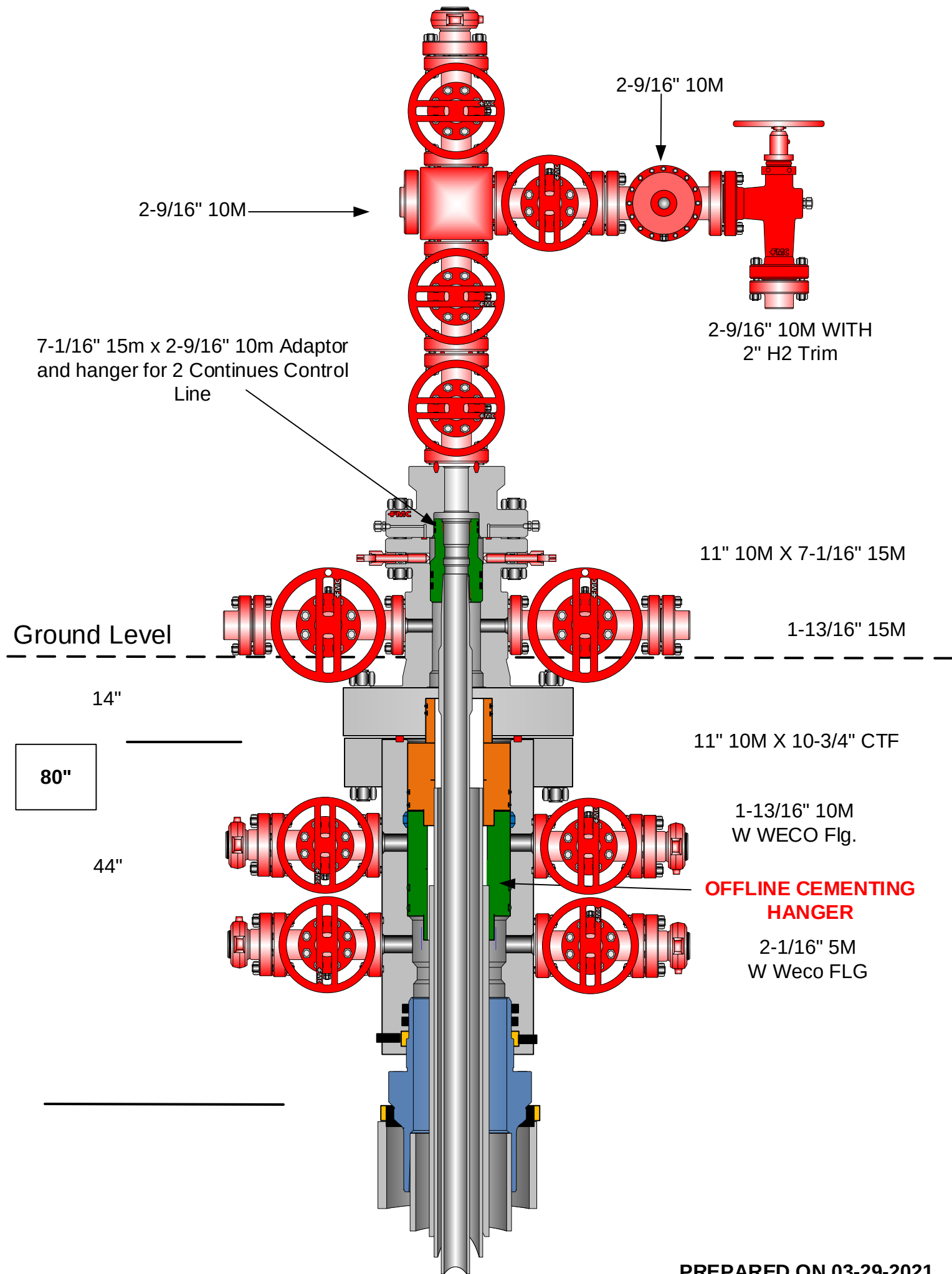
TUBULAR PROGRAM
1,005' 10-3/4" 40.5 # J55 BTC
12,008' 7-5/8" 29.7 # L-80 BTC
850' 7-5/8" 29.7 # L-80 UFJ
12,050' 5-1/2" 26# CYP110 CDCHTQ
10,612' 5" 18# CYP-110 BTC
2-7/8" L80 EUE



Dos Equis 12-13
Fed Com 1H

CACTUS FOR SERVICE
WEARBUSHING
IN CASING HEAD &
CASING SPOOL

LEA CO., NM



District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 165506

CONDITIONS

Operator: CIMAREX ENERGY CO. 600 N. Marienfeld Street Midland, TX 79701	OGRID: 215099
	Action Number: 165506
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

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