Form 3160-3
(June 2015)

FORM APPROVED
OMB No. 1004-0137
Expires: January 31, 2018

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.

6. If Indian, Allotee or Tribe Name

1a. Type of work: ☐ DRILL ☐ REENTER

1b. Type of Well: ☐ Oil Well ☐ Gas Well ☐ Other

1c. Type of Completion: ☐ Hydraulic Fracturing ☐ Single Zone ☐ Multiple Zone

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

8. Lease Name and Well No.

2. Name of Operator

9. API Well No.

3a. Address

3b. Phone No. *(include area code)*

10. Field and Pool, or Exploratory

4. Location of Well *(Report location clearly and in accordance with any State requirements.*)*

At surface

At proposed prod. zone

11. Sec., T. R. M. or Blk. and Survey or Area

14. Distance in miles and direction from nearest town or post office*

12. County or Parish

13. State

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No of acres in lease	17. Spacing Unit dedicated to this well
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. in file
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*	23. Estimated duration

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable)

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification.
6. Such other site specific information and/or plans as may be requested by the BLM.

25. Signature	Name *(Printed/Typed)*	Date
Title		
Approved by *(Signature)*	Name *(Printed/Typed)*	Date
Title	Office	

Application approval 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.
Conditions of approval, if any, are attached.

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.

APPROVED WITH CONDITIONS

(Continued on page 2)

*(Instructions on page 2)

Approval Date: 02/21/2025

C-102

Submit Electronically
Via OCD Permitting

State of New Mexico
Energy, Minerals, & Natural Resources Department
OIL CONSERVATION DIVISION

Revised July 9, 2024

Submittal Type: [X] Initial Submittal [ ] Amended Report [ ] As Drilled

WELL LOCATION INFORMATION

API Number	Pool Code	Pool Name
	15011	CULEBRA BLUFF; BONE SPRING, SOUTH

Property Code	Property Name	Well Number
330658	OCHOA 8703 FEDERAL COM	9H

OGRID No.	Operator Name	Ground Level Elevation
260297	BTA OIL PRODUCERS, LLC	3016'

Surface Owner: [ ] State [ ] Fee [ ] Tribal [X] Federal
Mineral Owner: [ ] State [ ] Fee [ ] Tribal [X] Federal

Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
H	12	23S	28E		1814' FNL	500' FEL	32.32249552	-104.03362271	EDDY

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
C	8	23S	29E		1270' FNL	2611' FWL	32.32352516	-104.00717701	EDDY

Dedicated Acres	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code
474.11	DEFINING WELL		No	

Order Numbers:
Well setbacks are under Common Ownership: [X] Yes [ ] No

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
D	7	23S	29E	L 1	1270' FNL	50' FWL	32.32400254	-104.03183265	EDDY

First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
D	7	23S	29E	L 1	1270' FNL	100' FWL	32.32399707	-104.03167081	EDDY

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
C	8	23S	29E		1270' FNL	2561' FWL	32.32352389	-104.00733889	EDDY

Unitized Area or Area of Uniform Interest	Spacing Unit Type: [X] Horizontal [ ] Vertical	Ground Floor Elevation
		3016'

OPERATOR CERTIFICATIONS

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, 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 a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.

Sammy Hajar — 8/26/2024
Signature — Date

Sammy Hajar
Printed Name

SHAJAR@BTAOIL.COM
Email Address

SURVEYOR CERTIFICATIONS

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.

Signature and Seal of Professional Surveyor

Certificate Number	Date of Survey
21653	AUGUST 19, 2024

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.

ACREAGE DEDICATION PLATS

OCHOA 8703 FEDERAL COM 9H

SHL
FNL 1814' FEL 500', SECTION 12
NAD 83, SPCS NM EAST
X:633917.74' / Y:481185.56'
LAT:32.32249552 / LON:-104.03362271
NAD 27, SPCS NM EAST
X:592735.01' / Y:481125.93'
LAT:32.32237425 / LON:-104.03312853

KOP
FNL 1270' FWL 50', SECTION 07
NAD 83, SPCS NM EAST
X:634469.15' / Y:481735.35'
LAT:32.32400254 / LON:-104.03183265
NAD 27, SPCS NM EAST
X:593286.42' / Y:481675.70'
LAT:32.32388126 / LON:-104.03133848

FTP/PPP-1
FNL 1270' FWL 100', SECTION 07
NAD 83, SPCS NM EAST
X:634519.14' / Y:481733.50'
LAT:32.32399707 / LON:-104.03167081
NAD 27, SPCS NM EAST
X:593336.42' / Y:481673.85'
LAT:32.32387579 / LON:-104.03117665

ENTRY-A
FNL 1332' FEL 10', SECTION 12
NAD 83, SPCS NM EAST
X:634409.04' / Y:481675.43'
LAT:32.32383828 / LON:-104.03202776
NAD 27, SPCS NM EAST
X:593226.32' / Y:481615.78'
LAT:32.32371700 / LON:-104.03153359

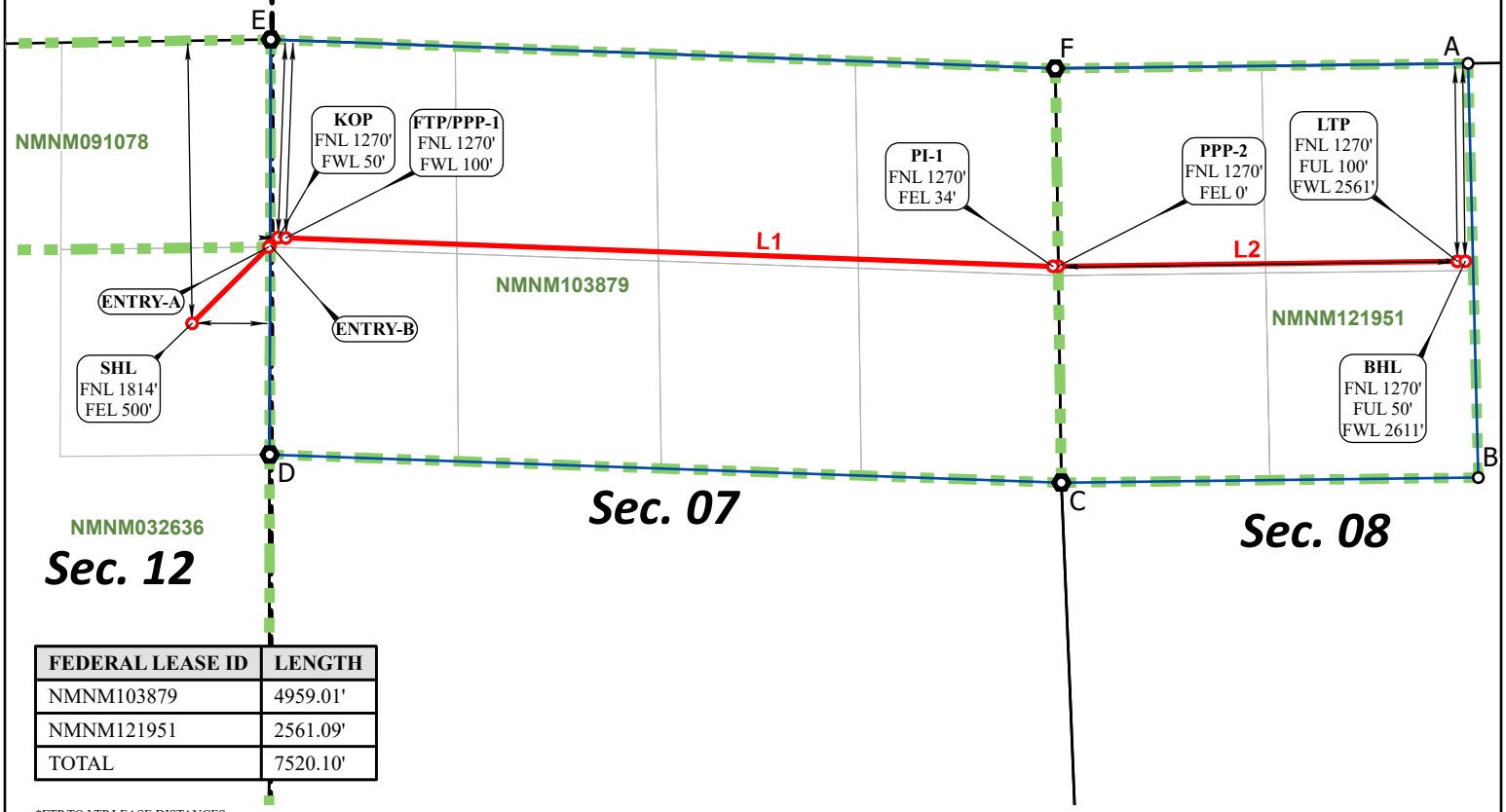
ENTRY-B
FNL 1322' FEL 0', SECTION 12,07
NAD 83, SPCS NM EAST
X:634419.01' / Y:481685.36'
LAT:32.32386552 / LON:-104.03199541
NAD 27, SPCS NM EAST
X:593236.29' / Y:481625.72'
LAT:32.32374424 / LON:-104.03150124

PI-1
FNL 1270' FEL 34', SECTION 07
NAD 83, SPCS NM EAST
X:639440.74' / Y:481551.51'
LAT:32.32345772 / LON:-104.01573977
NAD 27, SPCS NM EAST
X:598257.94' / Y:481491.81'
LAT:32.32333620 / LON:-104.01524622

PPP-2
FNL 1270' FEL 0', SECTION 07,08
NAD 83, SPCS NM EAST
X:639474.78' / Y:481551.93'
LAT:32.32345859 / LON:-104.01562956
NAD 27, SPCS NM EAST
X:598291.98' / Y:481492.22'
LAT:32.32333707 / LON:-104.01513602

LTP
FNL 1270' FUL 100' FWL 2561', SECTION 08
NAD 83, SPCS NM EAST
X:642035.68' / Y:481583.38'
LAT:32.32352389 / LON:-104.00733889
NAD 27, SPCS NM EAST
X:600852.84' / Y:481523.64'
LAT:32.32340225 / LON:-104.00684564

BHL
FNL 1270' FUL 50' FWL 2611', SECTION 08
NAD 83, SPCS NM EAST
X:642085.68' / Y:481583.99'
LAT:32.32352516 / LON:-104.00717701
NAD 27, SPCS NM EAST
X:600902.84' / Y:481524.25'
LAT:32.32340352 / LON:-104.00668378



FEDERAL LEASE ID	LENGTH
NMNM103879	4959.01'
NMNM121951	2561.09'
TOTAL	7520.10'

*FTP TO LTP LEASE DISTANCES

PRODUCTION LINE	BEARING/LENGTH
L1	S 87°52'56" E ~ 4924.97'
L2	N 89°17'47" E ~ 2595.13'

CORNER COORDINATES NAD 83, SPCS NM EAST	CORNER COORDINATES NAD 27, SPCS NM EAST
A - X: 642104.42' / Y: 482854.32'	A - X: 600921.62' / Y: 482794.55'
B - X: 642169.87' / Y: 480195.46'	B - X: 600987.00' / Y: 480135.75'
C - X: 639494.87' / Y: 480162.85'	C - X: 598312.03' / Y: 480103.18'
D - X: 634415.36' / Y: 480343.15'	D - X: 593232.60' / Y: 480283.54'
E - X: 634422.60' / Y: 483007.94'	E - X: 593239.91' / Y: 482948.26'
F - X: 639456.42' / Y: 482821.80'	F - X: 598273.66' / Y: 482762.07'

Drill Line Events | Section Corners | Drill Line | Dimension Lines | Federal Leases | Project Area

All bearings and coordinates refer to New Mexico State Plane Coordinate System, East Zone, U.S. Survey Feet.

Distances/areas relative to NAD 83 grid measurements. Combined Scale Factor: 0.99977431 and a Convergence Angle: 0.14739167°

JOB No. R4133_001
REV 1 REM 8/18/2024

State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

Section 1 – Plan Description
Effective May 25, 2021

I. Operator: BTA Oil Producers, LLC **OGRID:** 260297 **Date:** 11 / 12 / 2024

II. Type: ☒ Original ☐ Amendment due to ☐ 19.15.27.9.D(6)(a) NMAC ☐ 19.15.27.9.D(6)(b) NMAC ☐ Other.

If Other, please describe: _____

III. Well(s): Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
OCHOA 8703 FEDERAL COM 9H		H-12-23S-28E	1814 FNL, 500 FEL	+/- 800	+/- 2000	+/- 1200

IV. Central Delivery Point Name: OCHOA CTB [See 19.15.27.9(D)(1) NMAC]

V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
OCHOA 8703 FEDERAL COM 9H		2/26/2025	3/18/2025	4/1/2025	4/22/2025	5/22/2025

VI. Separation Equipment: ☒ Attach a complete description of how Operator will size separation equipment to optimize gas capture.

VII. Operational Practices: ☒ Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

VIII. Best Management Practices: ☒ Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

Section 2 – Enhanced Plan

EFFECTIVE APRIL 1, 2022

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

☒ Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

IX. Anticipated Natural Gas Production:

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in

XI. Map. ☐ Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

XII. Line Capacity. The natural gas gathering system ☐ will ☐ will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

XIII. Line Pressure. Operator ☐ does ☐ does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

☐ Attach Operator's plan to manage production in response to the increased line pressure.

XIV. Confidentiality: ☐ Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

Section 3 - Certifications

Effective May 25, 2021

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

☒ Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

☐ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system. ***If Operator checks this box, Operator will select one of the following:***

Well Shut-In. ☐ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

Venting and Flaring Plan. ☐ Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- **(a)** power generation on lease;
- **(b)** power generation for grid;
- **(c)** compression on lease;
- **(d)** liquids removal on lease;
- **(e)** reinjection for underground storage;
- **(f)** reinjection for temporary storage;
- **(g)** reinjection for enhanced oil recovery;
- **(h)** fuel cell production; and
- **(i)** other alternative beneficial uses approved by the division.

Section 4 - Notices

1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature:	Sammy Hajar
Printed Name:	Sammy Hajar
Title:	Regulatory Analyst
E-mail Address:	SHAJAR@BTAOIL.COM
Date:	11/12/2024
Phone:	432-682-3753

OIL CONSERVATION DIVISION **(Only applicable when submitted as a standalone form)**
Approved By:
Title:
Approval Date:
Conditions of Approval:

VI. Separation Equipment: Attach a complete description of how Operator will size separation equipment to optimize gas capture.

- Separation equipment will be sized to provide adequate separation for anticipated rates.
- Separation equipment will allow for adequate retention time to allow gas and liquids to separate.
- Separation equipment will utilize air power pneumatic dump controllers and ventless pressure control valves.
- Separation equipment will separate all three phases (Oil, Water, and Gas).
- Storage tanks will utilize blanket gas and vapor recovery systems to moderate tank pressures and capture gas from storage tanks.
- Collection systems are appropriately sized to handle facility production rates on all (3) phases.
- Ancillary equipment and metering is selected to be serviced without flow interruptions or the need to release gas from the well.

VII. Operational Practices: Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F 19.15.27.8 NMAC.

Drilling Operations

- All flare stacks will be properly sized. The flare stacks will be located at a minimum 100’ from the nearest surface hole location on the pad.
- All natural gas produced during drilling operations will be flared, unless there is an equipment malfunction and/or to avoid risk of an immediate and substantial adverse impact on safety and the environment, at which point the gas will be vented.

Completions/Recompletions Operations

- New wells will not be flowed back until they are connected to a properly sized gathering system.
- The facility will be built/sized for maximum anticipated flowrates and pressures to minimize waste.
- For flowback operations, multiple stages of separation will be used as well as excess VRU and blowers to make sure waste is minimized off the storage tanks and facility.
- During initial flowback, the well stream will be routed to separation equipment.
- At an existing facility, when necessary, post separation natural gas will be flared until it meets pipeline specifications, at which point it will be turned into a collection system.
- At a new facility, post separation natural gas will be vented until storage tanks can safely function, at which point it will be flared until it meets pipeline spec.

Production Operations

- Weekly AVOs will be performed on all facilities that produce more than 60 MCFD.
- All facilities will be inspected with an Optical Gas Imaging Thermographer Camera quarterly to find and repair fugitive emissions.
- Leaking thief hatches and pressure safety valves found during AVOs will be cleaned and properly re-sealed.

- All flares will be equipped with continuous pilot system and air assist systems that will ensure the flare burns efficiently.
- After a well is stabilized from liquid unloading, the well will be turned back into the collection system.
- All gas lift systems will be optimized to limit the amount of waste.
- All tanks will have automatic gauging equipment installed.

Performance Standards

- Production equipment will be designed to handle maximum anticipated rates and pressure.
- All flared gas will be combusted in a flare stack that is properly sized and designed to ensure proper combustion.
- All gas will have multiple points of separation to ensure no liquids enter flares, combustors, or gas sales line.
- Weekly AVOs will be performed on all wells and facilities that produce more than 60 MCFD.
- All OOOOa facilities will be filmed with an Optical Gas Imaging Thermographer camera once per month to check for fugitive emissions.

Measurement & Estimation

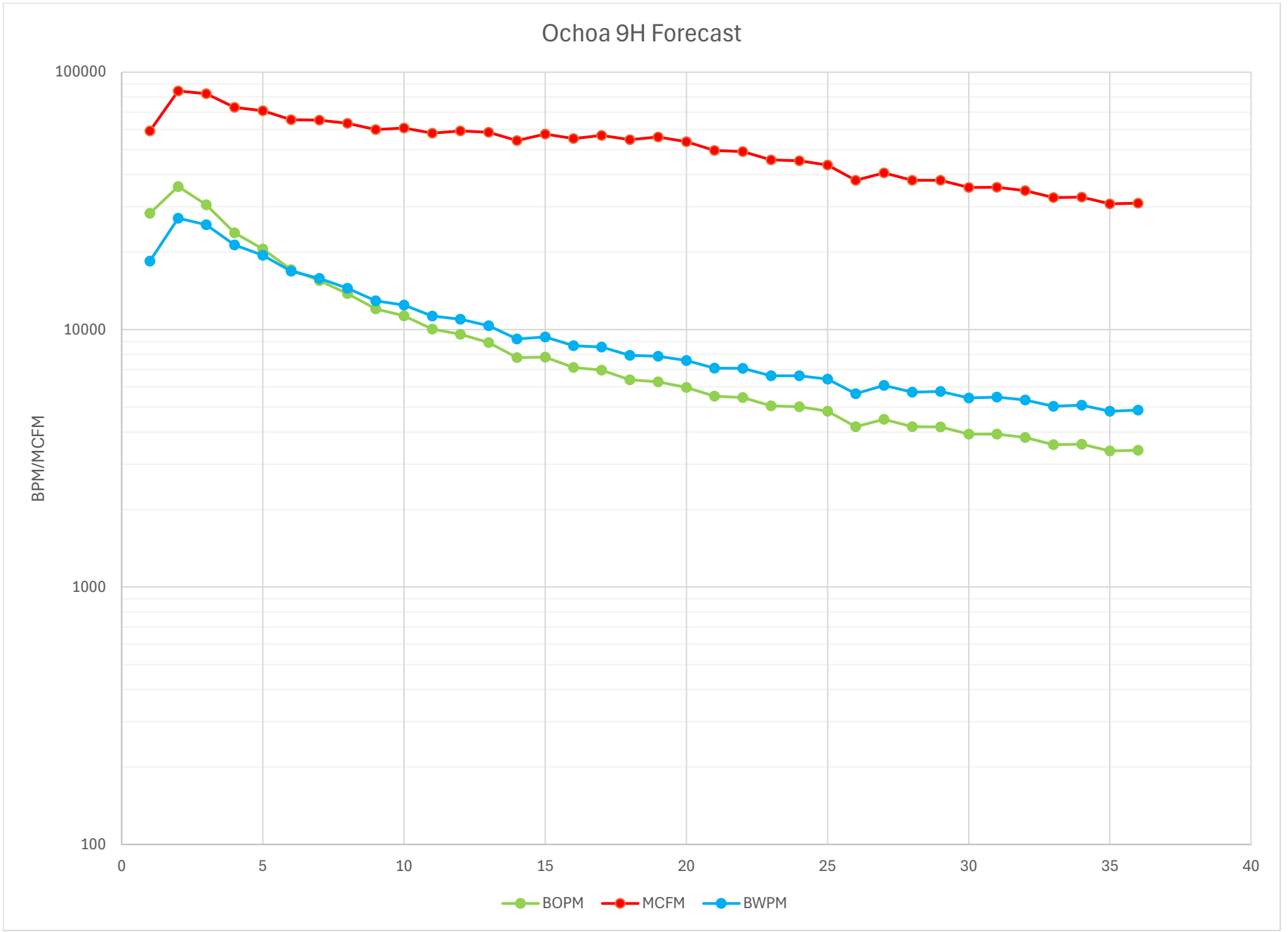
- All volume that is flared and vented that is not measured will be estimated.
- All measurement equipment for flared volumes will conform to API 14.10.
- All meters will be calibrated at regular intervals according to meter manufacturer recommendations.
- When metering is not practical due to low pressure/low rate, the vented or flared volume will be estimated.

VIII. Best Management Practices: Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

- During downhole well maintenance, BTA will use best management practices to vent as minimally as possible.
- Prior to the commencement of any maintenance, the tank or vessel will be isolated from the rest of the facilities.
- All valves upstream of the equipment will be closed and isolated.
- After equipment has been isolated, the equipment will be blown down to as low a pressure as possible into the collection system.
- If the equipment being maintained cannot be relieved into the collection system, it shall be released to a tank where the vapor can either be captured or combusted if possible.
- After downhole well maintenance, natural gas will be flared until it reaches pipeline specification.

Ochoa 9H Forecast – 3 Yr Decline Curves

Month	BOPM	MCFM	BWPM
1	28297.86	59129.53	18467.97
2	35964.54	84508.65	27082.44
3	30517.66	82435.1	25523.6
4	23768.9	72989.47	21333.65
5	20560.22	70801.63	19434.39
6	17106.41	65362.2	16848.78
7	15505.62	65142.83	15800.3
8	13783.76	63288.41	14466.39
9	12024.62	59869.29	12943.89
10	11311.85	60731.5	12452.97
11	10045.69	57882.89	11284.73
12	9591.52	59058.9	10973.74
13	8903.309	58424.44	10361.55
14	7787.703	54174.27	9202.388
15	7817.5	57477.01	9369.048
16	7123.503	55260.6	8652.729
17	6954.998	56784.21	8554.923
18	6378.618	54689	7939.379
19	6263.788	56001.5	7883.997
20	5962.599	53705.63	7586.002
21	5509.523	49666.01	7080.319
22	5447.14	49144.47	7067.363
23	5052.939	45625.88	6616.011
24	5013.646	45308.71	6622.067
25	4818.738	43584.1	6418.922
26	4197.036	37991.53	5634.364
27	4486.732	40646.5	6068.4
28	4192.626	38013.7	5712.981
29	4188.337	38006.38	5748.219
30	3922.75	35625.96	5421.144
31	3927.125	35695.33	5463.632
32	3806.469	34627.87	5330.738
33	3575.572	32554.43	5038.887
34	3589.444	32707.89	5089.277
35	3377.353	30800.85	4816.91
36	3395.81	30994.92	4871.066


Ochoa 9H Forecast
100000
10000
1000
100
BPM/MCFM
0
5
10
15
20
25
30
35
40
BOPM
MCFM
BWPM

AFMSS
U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

Drilling Plan Data Report
02/24/2025

APD ID: 10400100668
Submission Date: 08/26/2024
Operator Name: BTA OIL PRODUCERS LLC
Well Name: OCHOA 8703 FEDERAL COM
Well Number: 9H
Well Type: OIL WELL
Well Work Type: Drill

Highlighted data reflects the most recent changes

Show Final Text

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
15077264	QUATERNARY	3016	0	0	ALLUVIUM	NONE	N
15077265	RUSTLER	2745	271	271	ANHYDRITE	NONE	N
15077266	TOP SALT	1175	1841	1841	SALT	NONE	N
15077267	BASE OF SALT	535	2481	2481	SALT	NONE	N
15077268	DELAWARE	255	2761	2761	LIMESTONE	NATURAL GAS, OIL	N
15077277	BELL CANYON	225	2791	2791	SANDSTONE	NATURAL GAS, OIL	N
15077270	CHERRY CANYON	-755	3771	3771	SANDSTONE	NATURAL GAS, OIL	N
15077271	BRUSHY CANYON	-1775	4791	4791	SANDSTONE	NATURAL GAS, OIL	N
15077272	BONE SPRING LIME	-3325	6341	6341	LIMESTONE	NATURAL GAS, OIL	N
15077295	BONE SPRING 1ST	-4390	7406	7406	SANDSTONE	NATURAL GAS, OIL	N
15077299	BONE SPRING 2ND	-5125	8141	8141	SANDSTONE	NATURAL GAS, OIL	N
15077263	BONE SPRING 3RD	-5525	8541	8541	SANDSTONE	NATURAL GAS, OIL	Y

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M
Rating Depth: 14000

Equipment: The blowout preventer equipment (BOP) shown in Exhibit A will consist of a (5M system) double ram type (5,000 psi WP) preventer and a bag-type (Hydril) preventer (5000 psi WP). Both units will be hydraulically operated and the ram type preventer will be equipped with blind rams on top and 5" drill pipe rams on bottom. The BOPs will be installed on the 13-3/8" surface casing and utilized continuously until total depth is reached. A 2" kill line and 3" choke line will be incorporated in the drilling spool below the ram-type BOP. A remote kill line will be used for the 5M system as per onshore order #2. Other accessory BOP equipment will include a Kelly cock, floor safety valve, choke lines, and choke manifold having a 5,000 psi WP

Operator Name: BTA OIL PRODUCERS LLC

Well Name: OCHOA 8703 FEDERAL COM **Well Number:** 9H

rating. The 5M annular will be tested as per BLM drilling Operations Order No. 2, and will be test to 100% of working pressure.

Requesting Variance? NO

Variance request:

Testing Procedure: Pipe rams will be operated and checked each 24-hour period and each time the drill pipe is out of the hole. These functional tests will be documented on the daily drillers log. All BOPs and associated equipment will be tested as per BLM drilling Operations Order No. 2.

Choke Diagram Attachment:

5M_choke_mannifold_20200917143047.pdf

FLEX_HOSE_1_20241119081708.pdf

FLEX_HOSE_2_20241119081708.pdf

BOP Diagram Attachment:

5M_BOP_diagram_20200917143053.pdf

Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	17.5	13.375	NEW	API	N	0	323	0	323	3016	2693	323	J-55	54.5	ST&C	8.1	19.6	DRY	29.2	DRY	48.5
2	INTERMEDIATE	12.25	9.625	NEW	API	N	0	2757	0	2741	3016	275	2757	J-55	40	LT&C	1.8	2.8	DRY	4.7	DRY	5.7
3	PRODUCTION	8.75	5.5	NEW	API	N	0	16371	0	9131	3016	-6115	16371	P-110	17	BUTT	1.7	2.4	DRY	2	DRY	2

Casing Attachments

Operator Name: BTA OIL PRODUCERS LLC

Well Name: OCHOA 8703 FEDERAL COM **Well Number:** 9H

Casing Attachments

Casing ID: 1 **String** SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Ochoa_9H_Casing_Assumption_20240826134207.pdf

Casing ID: 2 **String** INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Casing ID: 3 **String** PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Section 4 - Cement

Operator Name: BTA OIL PRODUCERS LLC

Well Name: OCHOA 8703 FEDERAL COM **Well Number:** 9H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	80	65	1.73	13.5	112.45	100	Class C	2% CaCl2
SURFACE	Tail		80	323	250	1.35	14.8	337.5	100	Class C	2% CaCl2
INTERMEDIATE	Lead		0	2200	650	2.46	12.8	1599	100	Class C	0.5% CaCl2
INTERMEDIATE	Tail		2200	2757	200	1.34	14.8	268	25	Class C	1% CaCl2
PRODUCTION	Lead		1757	9910	810	3.9	10.5	3159	60	25% Poz 75% Class C	0.4% Fluid Loss
PRODUCTION	Tail		9910	16371	1635	1.25	14.4	2043.75	25	Class H	0.2% LT Retarder

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

Description of the equipment for the circulating system in accordance with Onshore Order #2:

Diagram of the equipment for the circulating system in accordance with Onshore Order #2:

Describe what will be on location to control well or mitigate other conditions: Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

Describe the mud monitoring system utilized: PVT/Pason/Visual Monitoring

Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	323	OTHER : FW SPUD	8.3	8.4							
323	2741	OTHER : BRINE	10	10.3							
2741	9131	OTHER : CUT BRINE	8.7	9.3							

Operator Name: BTA OIL PRODUCERS LLC

Well Name: OCHOA 8703 FEDERAL COM **Well Number:** 9H

Section 6 - Test, Logging, Coring

List of production tests including testing procedures, equipment and safety measures:

Drill Stem Tests will be based on geological sample shows.

List of open and cased hole logs run in the well:

MUD LOG/GEOLOGICAL LITHOLOGY LOG,GAMMA RAY LOG,CEMENT BOND LOG,

Coring operation description for the well:

None planned

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 4463 **Anticipated Surface Pressure:** 2454

Anticipated Bottom Hole Temperature(F): 153

Anticipated abnormal pressures, temperatures, or potential geologic hazards? NO

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations

BTA_Oil_Producers_LLC___EMERGENCY_CALL_LIST_20190723161502.pdf

H2S_Equipment_Schematic_20190723161502.pdf

H2S_Plan_20190723161502.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Ochoa_8703_Fed_Com__9H_WM_20240826140433.pdf

Ochoa_8703_Fed_Com__9H_Well_Plan_Rpt_20240826140433.pdf

Ochoa_8703_Federal__9H___Drilling_Casing_Plan_20241119091910.pdf

NGMP___Ochoa_9H__updated_11_20_2024__20241211132930.pdf

Other proposed operations facets description:

A variance is requested for a Multi Bowl Wellhead. See the attached schematic. *All strings will be kept 1/3 full while running.

Other proposed operations facets attachment:

Other Variance attachment:

Multibowl_Ochoa_9H_20240826135245.pdf

BTA_Tubing_Requirement_Exception_Request_20240826135646.pdf

BTA Oil Producers, LLC
104 S Pecos
Midland, TX 79701

WELL: Ochoa 8703 Fed Com #9H
TVD: 9131
MD: 16371

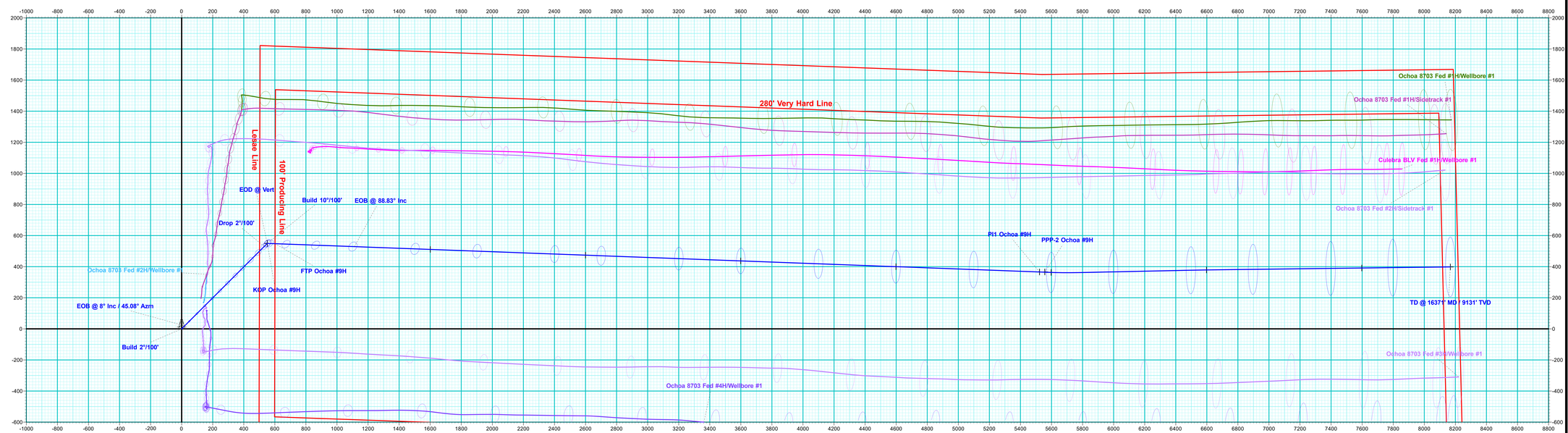
DRILLING PLAN

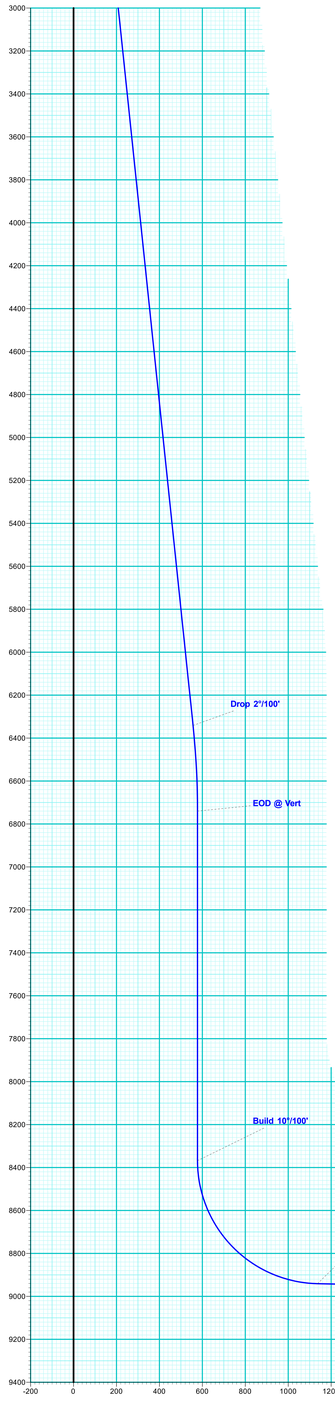
Casing Program

Hole Size	Csg.Size	From (MD)	To (MD)	From (TVD)	To (TVD)	Tapered String	Weight (lbs)	Grade	Conn.	Collapse	Burst	Body Tension	Joint Tension	Dry/ Buoyant	Mud Weight (ppg)
17 1/2	13 3/8	0	323	0	323	No	54.5	J-55	STC	8.1	19.6	48.5	29.2	Dry	8.3
12 1/4	9 5/8	0	2757	0	2741	No	40	J-55	LTC	1.8	2.8	5.7	4.7	Dry	10
8 3/4	5.5	0	16371	0	9131	No	17	P110	Buttress	1.7	2.4	2.0	2.0	Dry	9.4

Company Name: BTA Oil Producers, LLC
Ochoa 8703 Fed Com #9H
Eddy County, New Mexico (NAD 83)
Rig: Patterson #566
Created By: Shane Robbins
Date: 8/22/2024

Ochoa 8703 Fed Com #9H
Eddy County, New Mexico (NAD 83)
Q240*** & WT-240***
Design #1





ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	VSect	Departure	Annotation
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.0	Build 2°/100'
1200.1	8.00	45.08	1198.8	19.7	19.8	20.7	27.9	EOB @ 8° Inc / 45.08° Azm
6393.1	8.00	45.08	6341.2	530.1	531.7	556.9	750.8	Drop 2°/100'
6793.2	0.00	0.00	6740.0	549.8	551.4	577.5	778.7	EOD @ Vert
8421.4	0.00	0.00	8368.2	549.8	551.4	577.5	778.7	Build 10°/100'
9309.7	88.83	92.12	8941.0	529.0	1112.3	1136.8	1340.0	EOB @ 88.83° Inc
16371.4	87.95	89.30	9131.0	398.4	8167.9	8177.7	8399.0	TD @ 16371' MD / 9131' TVD

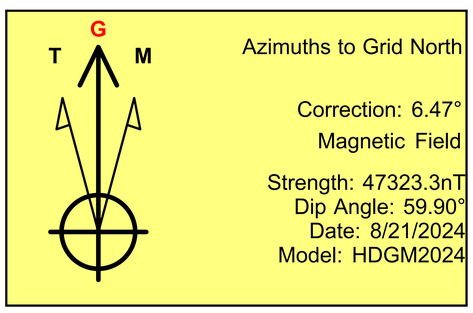
PROJECT DETAILS: Eddy County, New Mexico (NAD 83)

Geodetic System:	US State Plane 1983
Datum:	North American Datum 1983
Ellipsoid:	GRS 1980
Zone:	New Mexico Eastern Zone
System Datum:	Mean Sea Level

WELL DETAILS: Ochoa 8703 Fed Com #9H

3016.0

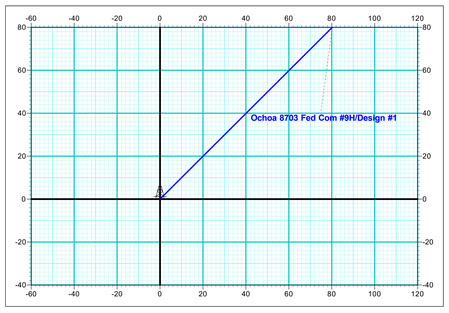
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	481185.56	633917.74	32° 19' 20.984 N	104° 2' 1.042 W



Azimuths to Grid North

Correction: 6.47°
Magnetic Field

Strength: 47323.3nT
Dip Angle: 59.90°
Date: 8/21/2024
Model: HDGM2024



BTA Oil Producers, LLC

Eddy County, New Mexico (NAD 83)
Sec 12, T23-S, R28-E
Ochoa 8703 Fed Com #9H

Wellbore #1

Plan: Design #1

KLX Well Planning Report

22 August, 2024

KLX Directional Drilling

Well Planning Report

Database:	KLXDirectional-AD	**Local Co-ordinate Reference:**	Well Ochoa 8703 Fed Com #9H
Company:	BTA Oil Producers, LLC	**TVD Reference:**	WELL @ 3041.0usft (Patterson #566)
Project:	Eddy County, New Mexico (NAD 83)	**MD Reference:**	WELL @ 3041.0usft (Patterson #566)
Site:	Sec 12, T23-S, R28-E	**North Reference:**	Grid
Well:	Ochoa 8703 Fed Com #9H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Project Eddy County, New Mexico (NAD 83)

Map System:	US State Plane 1983	**System Datum:**	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site Sec 12, T23-S, R28-E

Site Position:		**Northing:**	481,382.20 usft	**Latitude:**	32° 19' 22.926 N
From:	Map	**Easting:**	634,043.10 usft	**Longitude:**	104° 1' 59.574 W
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.16 °

Well Ochoa 8703 Fed Com #9H

Well Position	**+N/-S**	-196.6 usft	**Northing:**	481,185.56 usft	**Latitude:**	32° 19' 20.984 N
	+E/-W	-125.4 usft	**Easting:**	633,917.74 usft	**Longitude:**	104° 2' 1.042 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**		**Ground Level:**	3,016.0 usft

Wellbore Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM2024	8/21/2024	6.63	59.90	47,323.30000000

Design Design #1

Audit Notes:

Version:	**Phase:**	PLAN	**Tie On Depth:**	0.0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	87.21

Well Planning Report

Database:	KLXDirectional-AD	**Local Co-ordinate Reference:**	Well Ochoa 8703 Fed Com #9H
Company:	BTA Oil Producers, LLC	**TVD Reference:**	WELL @ 3041.0usft (Patterson #566)
Project:	Eddy County, New Mexico (NAD 83)	**MD Reference:**	WELL @ 3041.0usft (Patterson #566)
Site:	Sec 12, T23-S, R28-E	**North Reference:**	Grid
Well:	Ochoa 8703 Fed Com #9H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Plan Sections

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
800.0	0.00	0.00	800.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,200.1	8.00	45.08	1,198.8	19.7	19.8	2.00	2.00	0.00	45.08	
6,393.1	8.00	45.08	6,341.2	530.1	531.7	0.00	0.00	0.00	0.00	
6,793.2	0.00	0.00	6,740.0	549.8	551.4	2.00	-2.00	0.00	180.00	KOP Ochoa #9H
8,421.4	0.00	0.00	8,368.2	549.8	551.4	0.00	0.00	0.00	0.00	
9,309.7	88.83	92.12	8,941.0	529.0	1,112.3	10.00	10.00	10.37	92.12	
9,798.5	88.83	92.12	8,951.0	511.0	1,600.7	0.00	0.00	0.00	0.00	T1 Ochoa 9H
9,799.6	88.85	92.12	8,951.0	510.9	1,601.8	2.00	2.00	-0.01	-0.19	
10,798.7	88.85	92.12	8,971.0	474.0	2,600.0	0.00	0.00	0.00	0.00	T2 Ochoa 9H
10,827.8	88.27	92.12	8,971.7	473.0	2,629.1	2.00	-2.00	0.00	180.00	
11,799.2	88.27	92.12	9,001.0	437.1	3,599.4	0.00	0.00	0.00	0.00	T3 Ochoa 9H
11,799.6	88.28	92.12	9,001.0	437.1	3,599.8	2.00	2.00	0.00	-0.04	
12,799.6	88.28	92.12	9,031.0	400.1	4,598.7	0.00	0.00	0.00	0.00	T4 Ochoa 9H
13,799.6	88.28	92.12	9,061.0	363.2	5,597.5	0.00	0.00	0.00	0.00	
13,964.9	88.28	88.81	9,065.9	361.8	5,762.7	2.00	0.00	-2.00	-90.05	
14,800.6	88.28	88.81	9,091.0	379.2	6,597.9	0.00	0.00	0.00	0.00	T6 Ochoa 9H
14,838.8	88.87	89.31	9,092.0	379.8	6,636.1	2.00	1.53	1.29	40.25	
15,800.8	88.87	89.31	9,111.0	391.4	7,597.8	0.00	0.00	0.00	0.00	T7 Ochoa 9H
15,846.3	87.95	89.30	9,112.3	392.0	7,643.3	2.00	-2.00	-0.02	-179.38	
16,371.4	87.95	89.30	9,131.0	398.4	8,167.9	0.00	0.00	0.00	0.00	PBHL Ochoa #9H

Well Planning Report

Database:	KLXDirectional-AD	**Local Co-ordinate Reference:**	Well Ochoa 8703 Fed Com #9H
Company:	BTA Oil Producers, LLC	**TVD Reference:**	WELL @ 3041.0usft (Patterson #566)
Project:	Eddy County, New Mexico (NAD 83)	**MD Reference:**	WELL @ 3041.0usft (Patterson #566)
Site:	Sec 12, T23-S, R28-E	**North Reference:**	Grid
Well:	Ochoa 8703 Fed Com #9H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
Build 2°/100'									
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	2.00	45.08	900.0	1.2	1.2	1.3	2.00	2.00	0.00
1,000.0	4.00	45.08	999.8	4.9	4.9	5.2	2.00	2.00	0.00
1,100.0	6.00	45.08	1,099.5	11.1	11.1	11.6	2.00	2.00	0.00
EOB @ 8° Inc / 45.08° Azm									
1,200.1	8.00	45.08	1,198.8	19.7	19.8	20.7	2.00	2.00	0.00
1,300.0	8.00	45.08	1,297.7	29.5	29.6	31.0	0.00	0.00	0.00
1,400.0	8.00	45.08	1,396.8	39.3	39.5	41.3	0.00	0.00	0.00
1,500.0	8.00	45.08	1,495.8	49.2	49.3	51.7	0.00	0.00	0.00
1,600.0	8.00	45.08	1,594.8	59.0	59.2	62.0	0.00	0.00	0.00
1,700.0	8.00	45.08	1,693.8	68.8	69.0	72.3	0.00	0.00	0.00
1,800.0	8.00	45.08	1,792.9	78.7	78.9	82.6	0.00	0.00	0.00
1,900.0	8.00	45.08	1,891.9	88.5	88.7	93.0	0.00	0.00	0.00
2,000.0	8.00	45.08	1,990.9	98.3	98.6	103.3	0.00	0.00	0.00
2,100.0	8.00	45.08	2,089.9	108.1	108.5	113.6	0.00	0.00	0.00
2,200.0	8.00	45.08	2,189.0	118.0	118.3	123.9	0.00	0.00	0.00
2,300.0	8.00	45.08	2,288.0	127.8	128.2	134.3	0.00	0.00	0.00
2,400.0	8.00	45.08	2,387.0	137.6	138.0	144.6	0.00	0.00	0.00
2,500.0	8.00	45.08	2,486.0	147.5	147.9	154.9	0.00	0.00	0.00
2,600.0	8.00	45.08	2,585.1	157.3	157.8	165.2	0.00	0.00	0.00
2,700.0	8.00	45.08	2,684.1	167.1	167.6	175.6	0.00	0.00	0.00
2,800.0	8.00	45.08	2,783.1	176.9	177.5	185.9	0.00	0.00	0.00
2,900.0	8.00	45.08	2,882.1	186.8	187.3	196.2	0.00	0.00	0.00
3,000.0	8.00	45.08	2,981.2	196.6	197.2	206.5	0.00	0.00	0.00
3,100.0	8.00	45.08	3,080.2	206.4	207.0	216.9	0.00	0.00	0.00
3,200.0	8.00	45.08	3,179.2	216.3	216.9	227.2	0.00	0.00	0.00
3,300.0	8.00	45.08	3,278.3	226.1	226.8	237.5	0.00	0.00	0.00
3,400.0	8.00	45.08	3,377.3	235.9	236.6	247.8	0.00	0.00	0.00
3,500.0	8.00	45.08	3,476.3	245.7	246.5	258.1	0.00	0.00	0.00
3,600.0	8.00	45.08	3,575.3	255.6	256.3	268.5	0.00	0.00	0.00
3,700.0	8.00	45.08	3,674.4	265.4	266.2	278.8	0.00	0.00	0.00
3,800.0	8.00	45.08	3,773.4	275.2	276.0	289.1	0.00	0.00	0.00
3,900.0	8.00	45.08	3,872.4	285.1	285.9	299.4	0.00	0.00	0.00
4,000.0	8.00	45.08	3,971.4	294.9	295.8	309.8	0.00	0.00	0.00
4,100.0	8.00	45.08	4,070.5	304.7	305.6	320.1	0.00	0.00	0.00
4,200.0	8.00	45.08	4,169.5	314.5	315.5	330.4	0.00	0.00	0.00
4,300.0	8.00	45.08	4,268.5	324.4	325.3	340.7	0.00	0.00	0.00
4,400.0	8.00	45.08	4,367.5	334.2	335.2	351.1	0.00	0.00	0.00
4,500.0	8.00	45.08	4,466.6	344.0	345.0	361.4	0.00	0.00	0.00
4,600.0	8.00	45.08	4,565.6	353.9	354.9	371.7	0.00	0.00	0.00
4,700.0	8.00	45.08	4,664.6	363.7	364.8	382.0	0.00	0.00	0.00
4,800.0	8.00	45.08	4,763.7	373.5	374.6	392.4	0.00	0.00	0.00
4,900.0	8.00	45.08	4,862.7	383.3	384.5	402.7	0.00	0.00	0.00
5,000.0	8.00	45.08	4,961.7	393.2	394.3	413.0	0.00	0.00	0.00
5,100.0	8.00	45.08	5,060.7	403.0	404.2	423.3	0.00	0.00	0.00

Well Planning Report

Database:	KLXDirectional-AD	**Local Co-ordinate Reference:**	Well Ochoa 8703 Fed Com #9H
Company:	BTA Oil Producers, LLC	**TVD Reference:**	WELL @ 3041.0usft (Patterson #566)
Project:	Eddy County, New Mexico (NAD 83)	**MD Reference:**	WELL @ 3041.0usft (Patterson #566)
Site:	Sec 12, T23-S, R28-E	**North Reference:**	Grid
Well:	Ochoa 8703 Fed Com #9H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,200.0	8.00	45.08	5,159.8	412.8	414.0	433.7	0.00	0.00	0.00
5,300.0	8.00	45.08	5,258.8	422.7	423.9	444.0	0.00	0.00	0.00
5,400.0	8.00	45.08	5,357.8	432.5	433.8	454.3	0.00	0.00	0.00
5,500.0	8.00	45.08	5,456.8	442.3	443.6	464.6	0.00	0.00	0.00
5,600.0	8.00	45.08	5,555.9	452.1	453.5	475.0	0.00	0.00	0.00
5,700.0	8.00	45.08	5,654.9	462.0	463.3	485.3	0.00	0.00	0.00
5,800.0	8.00	45.08	5,753.9	471.8	473.2	495.6	0.00	0.00	0.00
5,900.0	8.00	45.08	5,852.9	481.6	483.1	505.9	0.00	0.00	0.00
6,000.0	8.00	45.08	5,952.0	491.5	492.9	516.3	0.00	0.00	0.00
6,100.0	8.00	45.08	6,051.0	501.3	502.8	526.6	0.00	0.00	0.00
6,200.0	8.00	45.08	6,150.0	511.1	512.6	536.9	0.00	0.00	0.00
6,300.0	8.00	45.08	6,249.0	520.9	522.5	547.2	0.00	0.00	0.00
Drop 2°/100'									
6,393.1	8.00	45.08	6,341.2	530.1	531.7	556.9	0.00	0.00	0.00
6,400.0	7.86	45.08	6,348.1	530.8	532.3	557.6	2.01	-2.01	0.00
6,500.0	5.86	45.08	6,447.4	539.2	540.8	566.4	2.00	-2.00	0.00
6,600.0	3.86	45.08	6,547.0	545.2	546.8	572.7	2.00	-2.00	0.00
6,700.0	1.86	45.08	6,646.9	548.7	550.3	576.4	2.00	-2.00	0.00
EOD @ Vert									
6,793.2	0.00	0.00	6,740.0	549.8	551.4	577.5	2.00	-2.00	0.00
6,800.0	0.00	0.00	6,746.8	549.8	551.4	577.5	0.00	0.00	0.00
6,900.0	0.00	0.00	6,846.8	549.8	551.4	577.5	0.00	0.00	0.00
7,000.0	0.00	0.00	6,946.8	549.8	551.4	577.5	0.00	0.00	0.00
7,100.0	0.00	0.00	7,046.8	549.8	551.4	577.5	0.00	0.00	0.00
7,200.0	0.00	0.00	7,146.8	549.8	551.4	577.5	0.00	0.00	0.00
7,300.0	0.00	0.00	7,246.8	549.8	551.4	577.5	0.00	0.00	0.00
7,400.0	0.00	0.00	7,346.8	549.8	551.4	577.5	0.00	0.00	0.00
7,500.0	0.00	0.00	7,446.8	549.8	551.4	577.5	0.00	0.00	0.00
7,600.0	0.00	0.00	7,546.8	549.8	551.4	577.5	0.00	0.00	0.00
7,700.0	0.00	0.00	7,646.8	549.8	551.4	577.5	0.00	0.00	0.00
7,800.0	0.00	0.00	7,746.8	549.8	551.4	577.5	0.00	0.00	0.00
7,900.0	0.00	0.00	7,846.8	549.8	551.4	577.5	0.00	0.00	0.00
8,000.0	0.00	0.00	7,946.8	549.8	551.4	577.5	0.00	0.00	0.00
8,100.0	0.00	0.00	8,046.8	549.8	551.4	577.5	0.00	0.00	0.00
8,200.0	0.00	0.00	8,146.8	549.8	551.4	577.5	0.00	0.00	0.00
8,300.0	0.00	0.00	8,246.8	549.8	551.4	577.5	0.00	0.00	0.00
8,400.0	0.00	0.00	8,346.8	549.8	551.4	577.5	0.00	0.00	0.00
Build 10°/100'									
8,421.4	0.00	0.00	8,368.2	549.8	551.4	577.5	0.00	0.00	0.00
8,450.0	2.86	92.12	8,396.8	549.8	552.1	578.3	10.01	10.01	0.00
8,500.0	7.86	92.12	8,446.6	549.6	556.8	582.9	10.00	10.00	0.00
8,550.0	12.86	92.12	8,495.8	549.3	565.8	591.9	10.00	10.00	0.00
8,600.0	17.86	92.12	8,544.0	548.8	579.0	605.1	10.00	10.00	0.00
8,650.0	22.86	92.12	8,590.8	548.1	596.4	622.4	10.00	10.00	0.00
8,700.0	27.86	92.12	8,636.0	547.3	617.8	643.7	10.00	10.00	0.00
8,750.0	32.86	92.12	8,679.1	546.4	643.0	668.9	10.00	10.00	0.00
8,800.0	37.86	92.12	8,719.9	545.3	672.0	697.7	10.00	10.00	0.00
8,850.0	42.86	92.12	8,758.0	544.1	704.3	730.0	10.00	10.00	0.00
8,900.0	47.86	92.12	8,793.1	542.8	739.8	765.4	10.00	10.00	0.00
8,950.0	52.86	92.12	8,825.0	541.4	778.3	803.8	10.00	10.00	0.00
9,000.0	57.86	92.12	8,853.4	539.9	819.4	844.7	10.00	10.00	0.00
9,050.0	62.86	92.12	8,878.1	538.3	862.8	888.0	10.00	10.00	0.00
9,100.0	67.86	92.12	8,898.9	536.6	908.2	933.3	10.00	10.00	0.00

Well Planning Report

Database:	KLXDirectional-AD	**Local Co-ordinate Reference:**	Well Ochoa 8703 Fed Com #9H
Company:	BTA Oil Producers, LLC	**TVD Reference:**	WELL @ 3041.0usft (Patterson #566)
Project:	Eddy County, New Mexico (NAD 83)	**MD Reference:**	WELL @ 3041.0usft (Patterson #566)
Site:	Sec 12, T23-S, R28-E	**North Reference:**	Grid
Well:	Ochoa 8703 Fed Com #9H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,150.0	72.86	92.12	8,915.7	534.9	955.3	980.2	10.00	10.00	0.00
9,200.0	77.86	92.12	8,928.4	533.1	1,003.6	1,028.4	10.00	10.00	0.00
9,250.0	82.86	92.12	8,936.7	531.2	1,052.9	1,077.5	10.00	10.00	0.00
9,300.0	87.86	92.12	8,940.8	529.4	1,102.6	1,127.1	10.00	10.00	0.00
EOB @ 88.83° Inc									
9,309.7	88.83	92.12	8,941.0	529.0	1,112.3	1,136.8	9.98	9.98	0.00
9,400.0	88.83	92.12	8,942.9	525.7	1,202.5	1,226.7	0.00	0.00	0.00
9,500.0	88.83	92.12	8,944.9	522.0	1,302.5	1,326.3	0.00	0.00	0.00
9,600.0	88.83	92.12	8,947.0	518.3	1,402.4	1,426.0	0.00	0.00	0.00
9,700.0	88.83	92.12	8,949.0	514.6	1,502.3	1,525.6	0.00	0.00	0.00
9,798.5	88.83	92.12	8,951.0	511.0	1,600.7	1,623.7	0.00	0.00	0.00
9,799.6	88.85	92.12	8,951.0	510.9	1,601.8	1,624.8	2.00	2.00	-0.01
9,900.0	88.85	92.12	8,953.0	507.2	1,702.1	1,724.8	0.00	0.00	0.00
10,000.0	88.85	92.12	8,955.0	503.5	1,802.0	1,824.4	0.00	0.00	0.00
10,100.0	88.85	92.12	8,957.0	499.8	1,901.9	1,924.0	0.00	0.00	0.00
10,200.0	88.85	92.12	8,959.0	496.1	2,001.8	2,023.6	0.00	0.00	0.00
10,300.0	88.85	92.12	8,961.0	492.5	2,101.7	2,123.2	0.00	0.00	0.00
10,400.0	88.85	92.12	8,963.0	488.8	2,201.7	2,222.9	0.00	0.00	0.00
10,500.0	88.85	92.12	8,965.0	485.1	2,301.6	2,322.5	0.00	0.00	0.00
10,600.0	88.85	92.12	8,967.0	481.4	2,401.5	2,422.1	0.00	0.00	0.00
10,700.0	88.85	92.12	8,969.0	477.7	2,501.4	2,521.7	0.00	0.00	0.00
10,798.7	88.85	92.12	8,971.0	474.0	2,600.0	2,620.0	0.00	0.00	0.00
10,800.0	88.83	92.12	8,971.0	474.0	2,601.3	2,621.3	2.00	-2.00	0.00
10,827.8	88.27	92.12	8,971.7	473.0	2,629.1	2,649.0	2.00	-2.00	0.00
10,900.0	88.27	92.12	8,973.9	470.3	2,701.2	2,720.9	0.00	0.00	0.00
11,000.0	88.27	92.12	8,976.9	466.6	2,801.1	2,820.5	0.00	0.00	0.00
11,100.0	88.27	92.12	8,979.9	462.9	2,901.0	2,920.1	0.00	0.00	0.00
11,200.0	88.27	92.12	8,982.9	459.2	3,000.9	3,019.7	0.00	0.00	0.00
11,300.0	88.27	92.12	8,986.0	455.5	3,100.7	3,119.3	0.00	0.00	0.00
11,400.0	88.27	92.12	8,989.0	451.8	3,200.6	3,218.8	0.00	0.00	0.00
11,500.0	88.27	92.12	8,992.0	448.1	3,300.5	3,318.4	0.00	0.00	0.00
11,600.0	88.27	92.12	8,995.0	444.4	3,400.4	3,418.0	0.00	0.00	0.00
11,700.0	88.27	92.12	8,998.0	440.7	3,500.3	3,517.6	0.00	0.00	0.00
11,799.2	88.27	92.12	9,001.0	437.1	3,599.4	3,616.4	0.00	0.00	0.00
11,799.6	88.28	92.12	9,001.0	437.1	3,599.8	3,616.8	2.00	2.00	0.00
11,900.0	88.28	92.12	9,004.0	433.3	3,700.1	3,716.8	0.00	0.00	0.00
12,000.0	88.28	92.12	9,007.0	429.6	3,799.9	3,816.4	0.00	0.00	0.00
12,100.0	88.28	92.12	9,010.0	426.0	3,899.8	3,916.0	0.00	0.00	0.00
12,200.0	88.28	92.12	9,013.0	422.3	3,999.7	4,015.5	0.00	0.00	0.00
12,300.0	88.28	92.12	9,016.0	418.6	4,099.6	4,115.1	0.00	0.00	0.00
12,400.0	88.28	92.12	9,019.0	414.9	4,199.5	4,214.7	0.00	0.00	0.00
12,500.0	88.28	92.12	9,022.0	411.2	4,299.4	4,314.3	0.00	0.00	0.00
12,600.0	88.28	92.12	9,025.0	407.5	4,399.3	4,413.9	0.00	0.00	0.00
12,700.0	88.28	92.12	9,028.0	403.8	4,499.2	4,513.5	0.00	0.00	0.00
12,799.6	88.28	92.12	9,031.0	400.1	4,598.7	4,612.7	0.00	0.00	0.00
12,900.0	88.28	92.12	9,034.0	396.4	4,698.9	4,712.7	0.00	0.00	0.00
13,000.0	88.28	92.12	9,037.0	392.7	4,798.8	4,812.2	0.00	0.00	0.00
13,100.0	88.28	92.12	9,040.0	389.0	4,898.7	4,911.8	0.00	0.00	0.00
13,200.0	88.28	92.12	9,043.0	385.3	4,998.6	5,011.4	0.00	0.00	0.00
13,300.0	88.28	92.12	9,046.0	381.6	5,098.5	5,111.0	0.00	0.00	0.00
13,400.0	88.28	92.12	9,049.0	377.9	5,198.4	5,210.6	0.00	0.00	0.00
13,500.0	88.28	92.12	9,052.0	374.2	5,298.2	5,310.2	0.00	0.00	0.00
13,600.0	88.28	92.12	9,055.0	370.5	5,398.1	5,409.8	0.00	0.00	0.00
13,700.0	88.28	92.12	9,058.0	366.8	5,498.0	5,509.4	0.00	0.00	0.00

Well Planning Report

Database:	KLXDirectional-AD	**Local Co-ordinate Reference:**	Well Ochoa 8703 Fed Com #9H
Company:	BTA Oil Producers, LLC	**TVD Reference:**	WELL @ 3041.0usft (Patterson #566)
Project:	Eddy County, New Mexico (NAD 83)	**MD Reference:**	WELL @ 3041.0usft (Patterson #566)
Site:	Sec 12, T23-S, R28-E	**North Reference:**	Grid
Well:	Ochoa 8703 Fed Com #9H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
13,799.6	88.28	92.12	9,061.0	363.2	5,597.5	5,608.6	0.00	0.00	0.00
13,900.0	88.28	90.11	9,064.0	361.2	5,697.8	5,708.7	2.00	0.00	-2.00
13,964.9	88.28	88.81	9,065.9	361.8	5,762.7	5,773.5	2.00	0.00	-2.00
14,000.0	88.28	88.81	9,067.0	362.6	5,797.8	5,808.6	0.00	0.00	0.00
14,100.0	88.28	88.81	9,070.0	364.6	5,897.7	5,908.5	0.00	0.00	0.00
14,200.0	88.28	88.81	9,073.0	366.7	5,997.6	6,008.4	0.00	0.00	0.00
14,300.0	88.28	88.81	9,076.0	368.8	6,097.6	6,108.3	0.00	0.00	0.00
14,400.0	88.28	88.81	9,079.0	370.8	6,197.5	6,208.2	0.00	0.00	0.00
14,500.0	88.28	88.81	9,082.0	372.9	6,297.5	6,308.1	0.00	0.00	0.00
14,600.0	88.28	88.81	9,085.0	375.0	6,397.4	6,408.1	0.00	0.00	0.00
14,700.0	88.28	88.81	9,088.0	377.1	6,497.3	6,508.0	0.00	0.00	0.00
14,800.6	88.28	88.81	9,091.0	379.2	6,597.9	6,608.5	0.00	0.00	0.00
14,838.8	88.87	89.31	9,092.0	379.8	6,636.1	6,646.7	2.00	1.53	1.29
14,900.0	88.87	89.31	9,093.2	380.5	6,697.2	6,707.8	0.00	0.00	0.00
15,000.0	88.87	89.31	9,095.1	381.7	6,797.2	6,807.7	0.00	0.00	0.00
15,100.0	88.87	89.31	9,097.1	382.9	6,897.2	6,907.6	0.00	0.00	0.00
15,200.0	88.87	89.31	9,099.1	384.2	6,997.1	7,007.5	0.00	0.00	0.00
15,300.0	88.87	89.31	9,101.1	385.4	7,097.1	7,107.5	0.00	0.00	0.00
15,400.0	88.87	89.31	9,103.1	386.6	7,197.1	7,207.4	0.00	0.00	0.00
15,500.0	88.87	89.31	9,105.0	387.8	7,297.1	7,307.3	0.00	0.00	0.00
15,600.0	88.87	89.31	9,107.0	389.0	7,397.0	7,407.2	0.00	0.00	0.00
15,700.0	88.87	89.31	9,109.0	390.2	7,497.0	7,507.1	0.00	0.00	0.00
15,800.8	88.87	89.31	9,111.0	391.4	7,597.8	7,607.8	0.00	0.00	0.00
15,846.3	87.95	89.30	9,112.3	392.0	7,643.3	7,653.3	2.00	-2.00	-0.02
15,900.0	87.95	89.30	9,114.2	392.6	7,696.9	7,706.9	0.00	0.00	0.00
16,000.0	87.95	89.30	9,117.7	393.9	7,796.8	7,806.8	0.00	0.00	0.00
16,100.0	87.95	89.30	9,121.3	395.1	7,896.8	7,906.6	0.00	0.00	0.00
16,200.0	87.95	89.30	9,124.9	396.3	7,996.7	8,006.5	0.00	0.00	0.00
16,300.0	87.95	89.30	9,128.5	397.6	8,096.6	8,106.4	0.00	0.00	0.00
TD @ 16371' MD / 9131' TVD									
16,371.4	87.95	89.30	9,131.0	398.4	8,167.9	8,177.7	0.00	0.00	0.00

Well Planning Report

Database:	KLXDirectional-AD	**Local Co-ordinate Reference:**	Well Ochoa 8703 Fed Com #9H
Company:	BTA Oil Producers, LLC	**TVD Reference:**	WELL @ 3041.0usft (Patterson #566)
Project:	Eddy County, New Mexico (NAD 83)	**MD Reference:**	WELL @ 3041.0usft (Patterson #566)
Site:	Sec 12, T23-S, R28-E	**North Reference:**	Grid
Well:	Ochoa 8703 Fed Com #9H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
FTP Ochoa #9H - plan misses target center by 813.6usft at 0.0usft MD (0.0 TVD, 0.0 N, 0.0 E) - Point	0.00	0.00	0.0	547.9	601.4	481,733.50	634,519.14	32° 19' 26.389 N	104° 1' 54.015 W
PI1 Ochoa #9H - plan misses target center by 5535.1usft at 0.0usft MD (0.0 TVD, 0.0 N, 0.0 E) - Point	0.00	0.00	0.0	365.9	5,523.0	481,551.51	639,440.74	32° 19' 24.448 N	104° 0' 56.663 W
PPP-2 Ochoa #9H - plan misses target center by 5569.1usft at 0.0usft MD (0.0 TVD, 0.0 N, 0.0 E) - Point	0.00	0.01	0.0	366.4	5,557.0	481,551.93	639,474.78	32° 19' 24.451 N	104° 0' 56.266 W
KOP Ochoa #9H - plan hits target center - Point	0.00	0.00	6,740.0	549.8	551.4	481,735.35	634,469.15	32° 19' 26.409 N	104° 1' 54.597 W
T1 Ochoa 9H - plan hits target center - Point	0.00	0.00	8,951.0	511.0	1,600.7	481,696.54	635,518.46	32° 19' 25.996 N	104° 1' 42.370 W
T2 Ochoa 9H - plan hits target center - Point	0.00	0.00	8,971.0	474.0	2,600.0	481,659.59	636,517.78	32° 19' 25.602 N	104° 1' 30.725 W
T3 Ochoa 9H - plan hits target center - Point	0.00	0.00	9,001.0	437.1	3,599.4	481,622.63	637,517.09	32° 19' 25.207 N	104° 1' 19.080 W
T4 Ochoa 9H - plan hits target center - Point	0.00	0.00	9,031.0	400.1	4,598.7	481,585.67	638,516.41	32° 19' 24.813 N	104° 1' 7.434 W
T5 Ochoa 9H - plan hits target center - Point	0.00	0.00	9,061.0	363.2	5,598.0	481,548.71	639,515.73	32° 19' 24.418 N	104° 0' 55.789 W
T6 Ochoa 9H - plan hits target center - Point	0.00	0.00	9,091.0	379.2	6,597.9	481,564.71	640,515.60	32° 19' 24.547 N	104° 0' 44.136 W
T7 Ochoa 9H - plan hits target center - Point	0.00	0.00	9,111.0	391.4	7,597.8	481,576.99	641,515.53	32° 19' 24.638 N	104° 0' 32.482 W
PBHL Ochoa #9H - plan hits target center - Point	0.00	0.00	9,131.0	398.4	8,167.9	481,583.99	642,085.68	32° 19' 24.691 N	104° 0' 25.837 W

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
800.0	800.0	0.0	0.0	Build 2°/100'
1,200.1	1,198.8	19.7	19.8	EOB @ 8° Inc / 45.08° Azm
6,393.1	6,341.2	530.1	531.7	Drop 2°/100'
6,793.2	6,740.0	549.8	551.4	EOD @ Vert
8,421.4	8,368.2	549.8	551.4	Build 10°/100'
9,309.7	8,941.0	529.0	1,112.3	EOB @ 88.83° Inc
16,371.4	9,131.0	398.4	8,167.9	TD @ 16371' MD / 9131' TVD

BTA Oil Producers, LLC
104 S Pecos
Midland, TX 79701

WELL: Ochoa 8703 Fed Com #9H
TVD: 9131
MD: 16371

DRILLING PLAN

Casing Program

Hole Size	Csg.Size	From (MD)	To (MD)	From (TVD)	To (TVD)	Tapered String	Weight (lbs)	Grade	Conn.	Collapse	Burst	Body Tension	Joint Tension	Dry/ Buoyant	Mud Weight (ppg)
17 1/2	13 3/8	0	323	0	323	No	54.5	J-55	STC	8.1	19.6	48.5	29.2	Dry	8.3
12 1/4	9 5/8	0	2757	0	2741	No	40	J-55	LTC	1.8	2.8	5.7	4.7	Dry	10
8 3/4	5.5	0	16371	0	9131	No	17	P110	Buttress	1.7	2.4	2.0	2.0	Dry	9.4

Cementing Program

Csg. Size		Stage Tool Depth	Top MD of Segment	Bottom MD of Segment	Cement Type	Quantity (sk)	Yield (cu. Ft./sk)	Density (lbs. gal)	Volume (cu.ft.)	% Excess	Additives
13 3/8	Lead		0	80	Class C	65	1.73	13.5	112.45	100%	2% CaCl2
	Tail		80	323	Class C	250	1.35	14.8	337.5	100%	2% CaCl2
9 5/8	Lead		0	2200	Class C	650	2.46	12.8	1599	100%	0.5% CaCl2
	Tail		2200	2757	Class C	200	1.34	14.8	268	25%	1% CaCl2
5 1/2	Lead		1757	9910	25% Poz 75% Class C	810	3.9	10.5	3159	60%	0.4% Fluid Loss
	Tail		9910	16371	Class H	1635	1.25	14.4	2043.75	25%	0.2% LT Retarder

BOP/CHOKE

Pressure Rating: 5M Rating Depth: 14000 Requesting Variance? Choke Hose
Multi Bowl Wellhead

Pressure

Anticipated Bottom Hole Pressure: 4,463 psi

Anticipated Bottom Hole Temperature: 153 °F

Anticipated abnormal pressures, temperatures, or potential geologic hazards? None

Anticipated Surface Hole Pressure: 2454.4128

Hydrogen sulfide drilling operations plan required? Yes

Circulating Medium Table			
Depth (TVD)		Type	Weight (ppg)
From	To		
0	323	FW Spud	8.3 - 8.4
323	2741	Brine	10-10.3
2741	9131	Cut Brine	8.7 - 9.3

TUBING REQUIREMENTS

BTA Oil Producers, LLC respectively requests an exception to the following NMOCD rule:

- 19.15.16.10 Casing AND TUBING RQUIREMENTS:

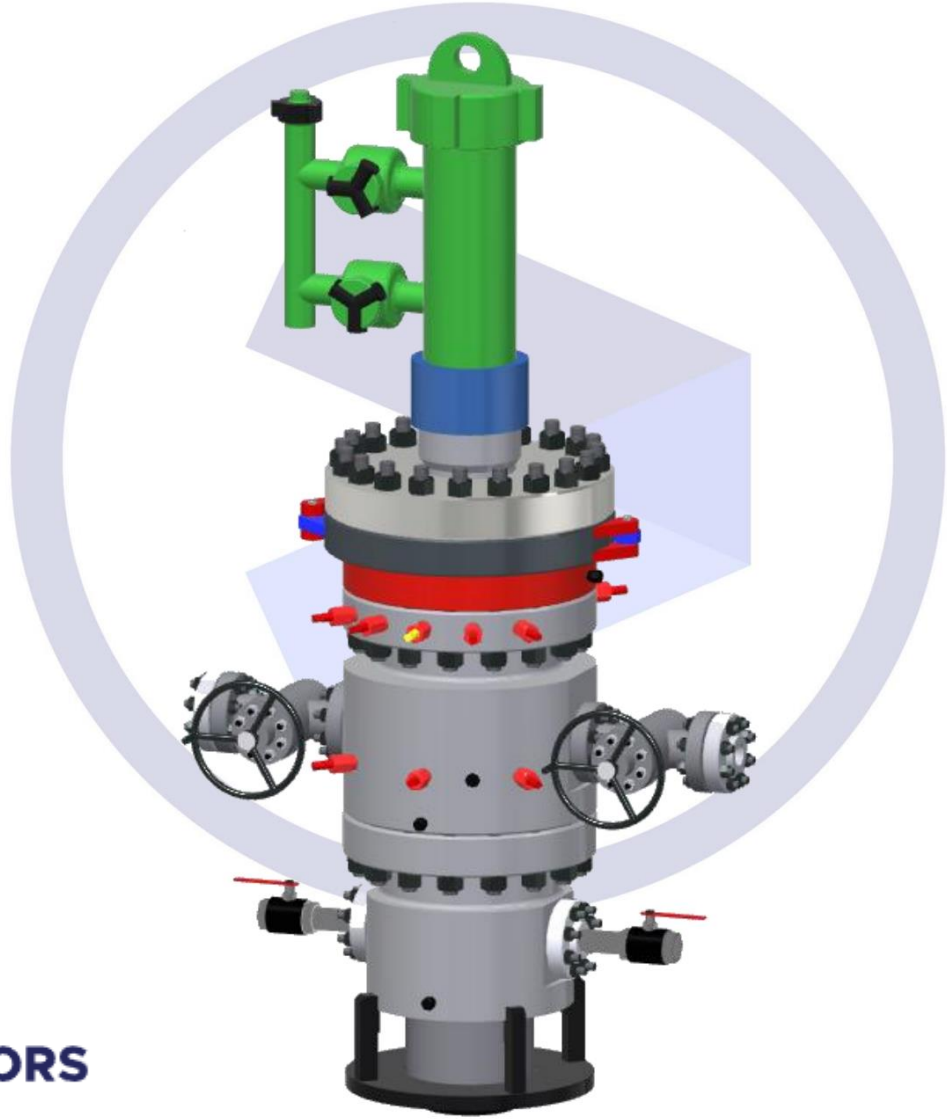
  J (3): “The operator shall set tubing as near the bottom as practical and tubing perforations shall not be more than 250 feet above top of pay zone.”

With horizontal flowing and gas lifted wells an end of tubing depth placed at or slightly above KOP is a conservative way to ensure the tubing stays clean from debris, plugging, and allows for fewer well interventions post offset completion. The deeper the tubulars are run into the curve, the higher the probability is that the tubing will become stuck in sand and or well debris as the well produces over time. An additional consideration for EOT placement during artificial lift installations is avoiding the high dog leg severity and inclinations found in the curve section of the wellbore to help improve reliability and performance. Dog leg severity and inclinations tend not to hamper gas lifted or flowing wells, but they do affect other forms of artificial lift like rod pump or ESP (electric submersible pump). Keeping the EOT above KOP is an industry best practice for those respective forms of artificial lift.

BTA Oil Producers, LLC

Off-Line Cement Adapter (3-String) Intermediate

Off-line Cementing Request
BLM Carlsbad Field Office
7-9-2024



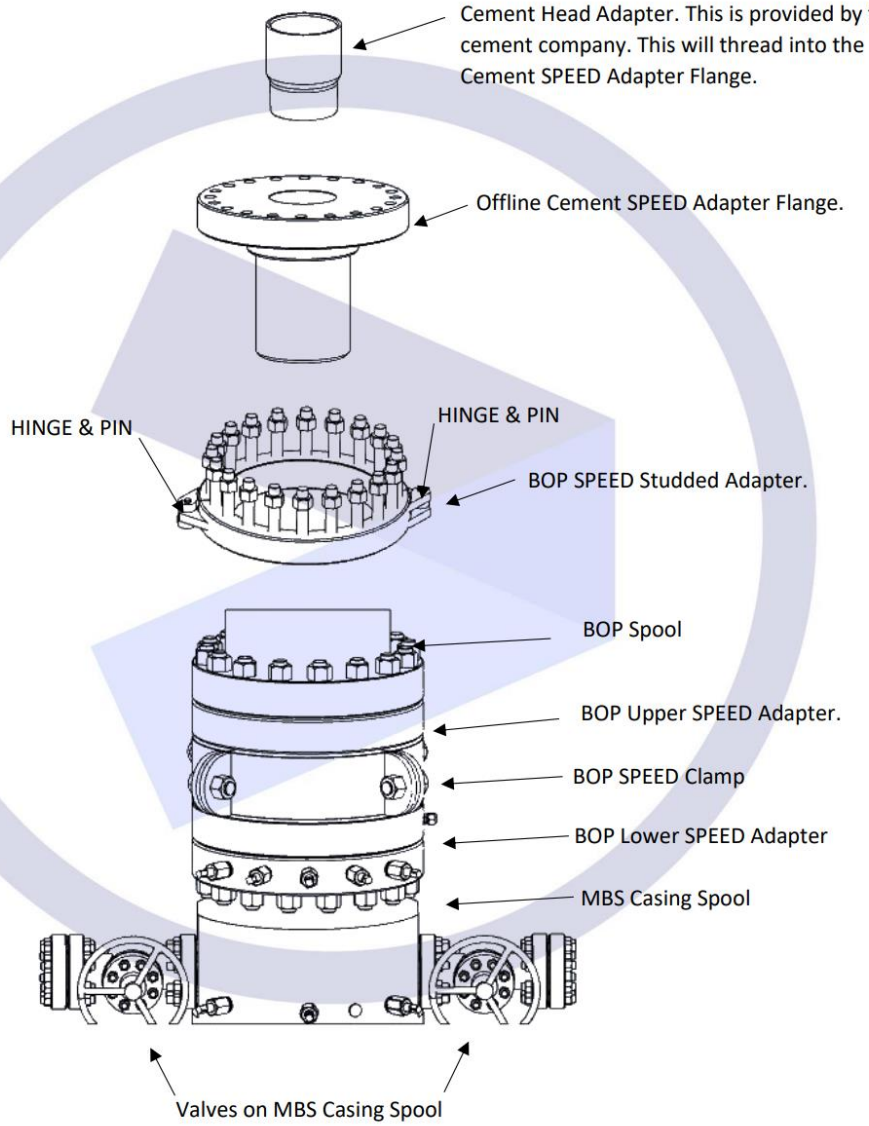
SONIC CONNECTORS

Offline cementing requirements/procedure

- Once casing is ran to TD, well will be fully circulated 2 annular volumes to verify wellbore is free of gas before landing casing and walking rig.
- BTA plans to always utilize two float tools: guide shoe and float collar with both having a minimum of 2 valves each. Verify floats are holding prior to walking rig and removing BOPE. If the floats don't hold, the cement job will be performed online.
- BTA will not penetrate Wolfcamp prior to any off-line cementing, no offline cementing allowed when cementing above 5M BOPE requirement.
- Offline cementing of production casing is NOT approved.
- Offline cementing must be complete within 24 hours of rig walking or authorization must be granted by BLM
- Offline cementing of 2nd intermediate is allowed if the interval does not penetrate the Wolfcamp and is <= 5M, partial approval for offline of the 1st intermediate is allowed.
- Determination of BOPE pressure rating will be from pressure gradient to TVD at TD with partially evacuated hole of .22psi/ft gradient.
- If drill out of next well occurs before cement job has concluded, must have separate chokes for rig and cement job. Choke manifold must be tested prior to cement job.
- Cement company must have valves upstream of the wellhead with ability to close in ID of casing if needed.
- In the event of remedial cement job following loss circulation on primary cement, rig must not drill out next well until completion of remedial cement. Braden head squeeze, if planned as second stage, is considered primary cement job(need approval from BLM by operator presenting proposal for using a bradenhead squeeze as a secondary cmt job).

Procedure:

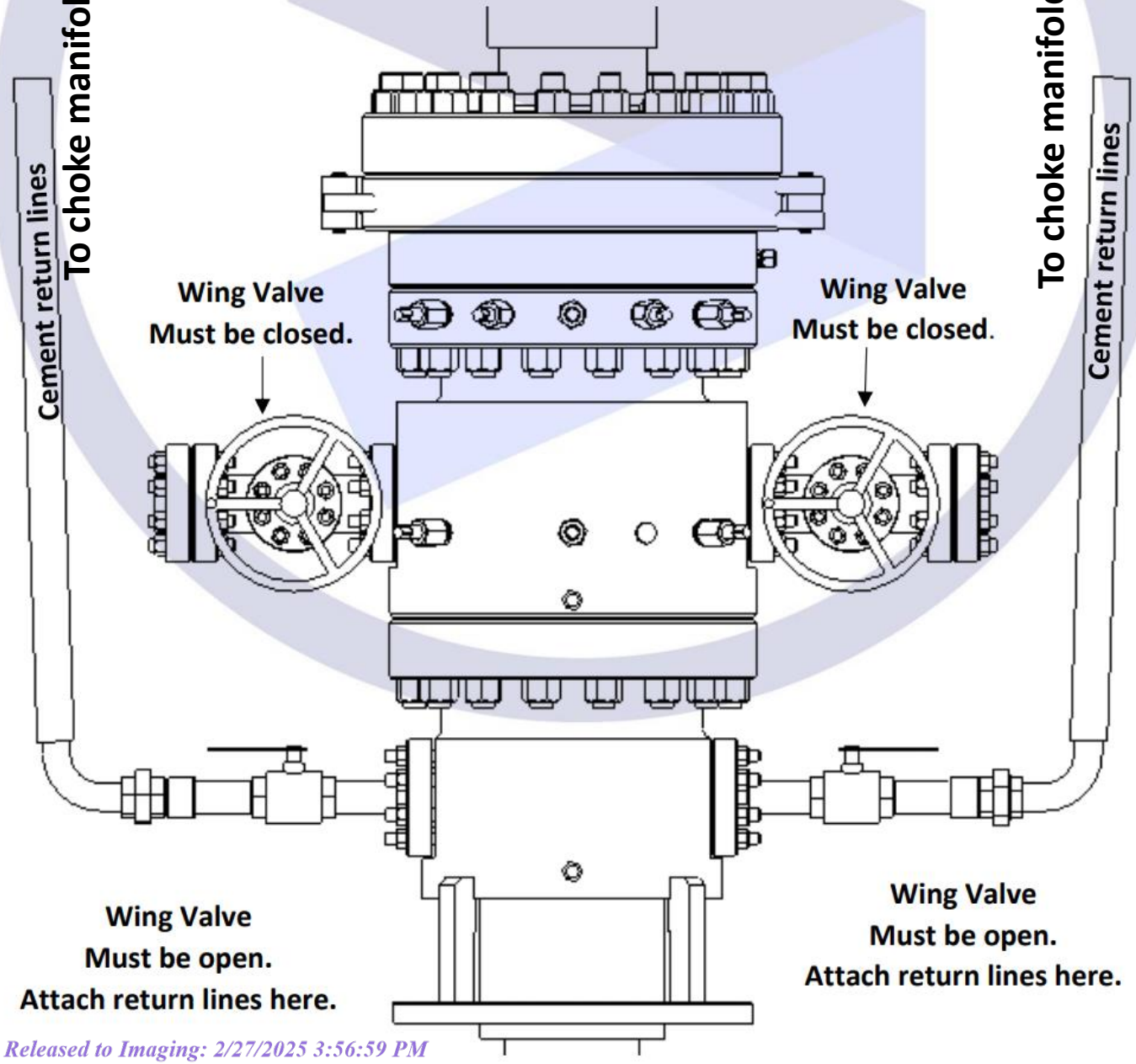
1. Pack off bushing was previously installed and tested.
2. Drain fluid from BOP and verify no pressure
3. Remove BOP and install BOP upper Speed adaptor onto BOP lower speed adaptor. Install hinge pins.
4. Install offline cement speed adapter flange, place hole cover and install bolts.
5. Attached hand test pump to test port and test to 5,000 psi.
6. Close wing valves on casing head and open lower casing head valves for cement returns. Attach return lines to pits.
7. Cement company must have back pressure flow valve rated to 5M.
8. Secure all valves in the closed position before moving the rig and following pumping cement. Pressure will be monitored by installing gauges in the wing valves and ball valves.



Choke manifold for offline cementing

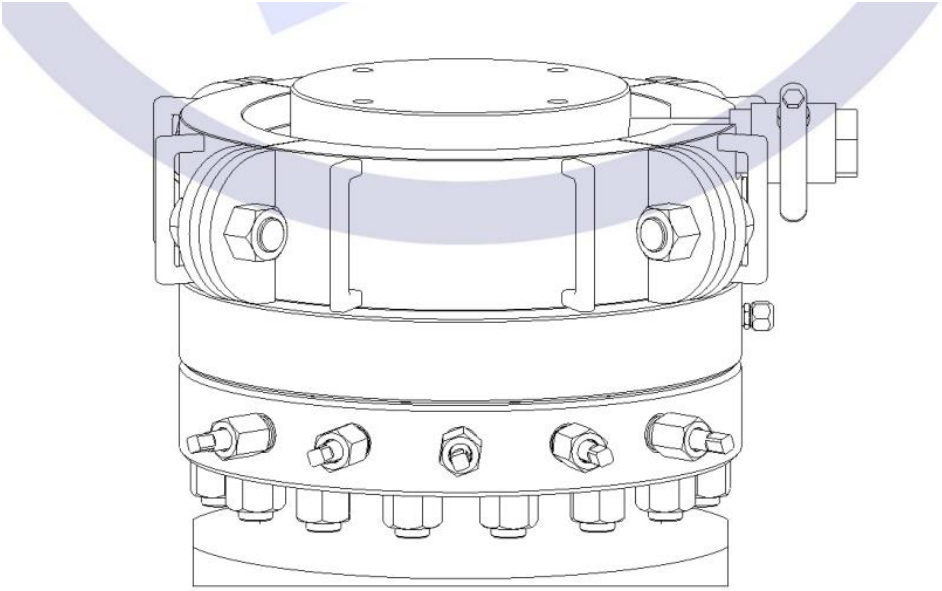
The manifold will be rigged up to take returns either to the pits or to the choke manifold in a well control event.

During cementing



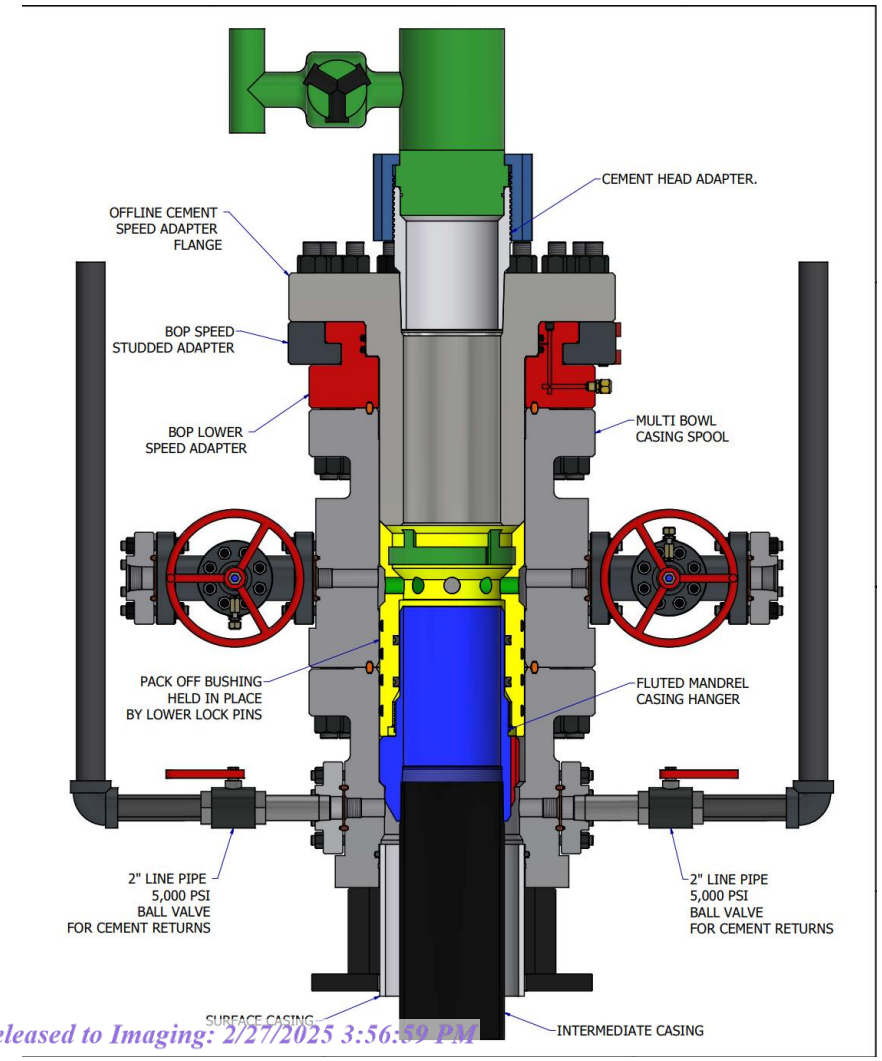
Rigging down.

1. Following cement job, make sure 0 pressure on all flow lines, flush all lines and valves.
2. Remove all bolts from BOP speed studded adapter.
3. Remove Offline cement adapter and BOP Speed Studded Adapter
4. Install BOP speed plug and clamps.

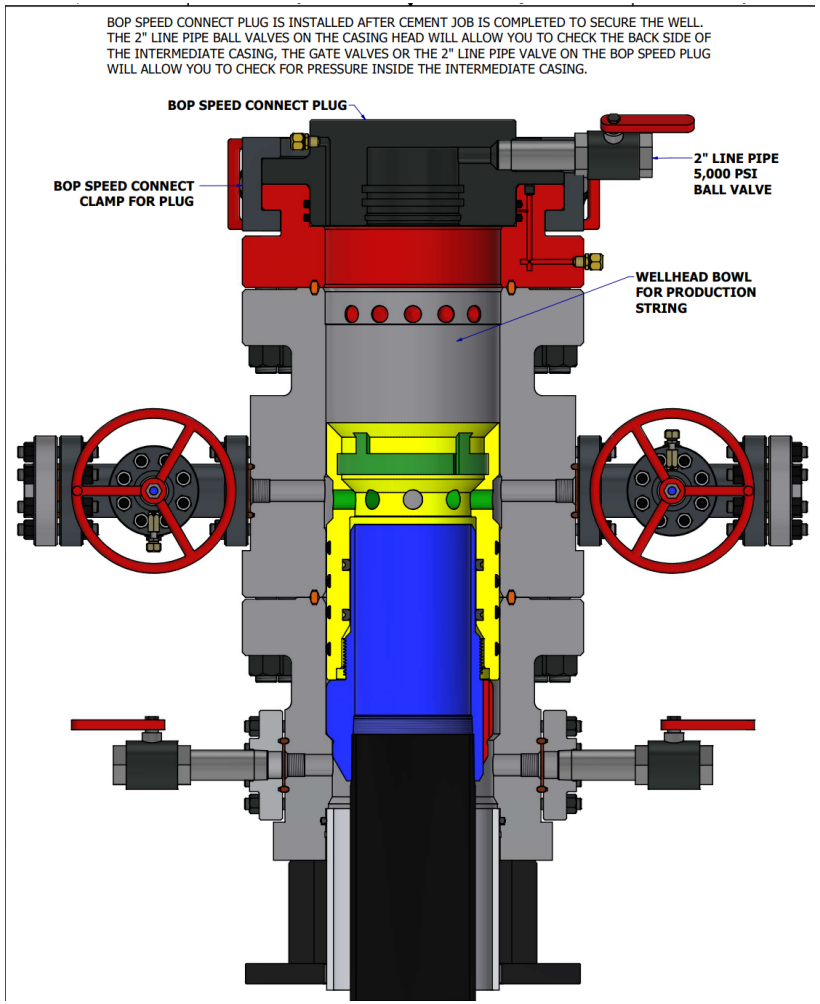


Following cementing and rig down

During cementing



Following Cement job



Barriers	
Component	**Barrier**
Float Valves	Internal
Mud Weight	Internal
Pack off	External
Cement/Mud	External
5,000 psi ball valve	Internal

BTA Oil Producers, LLC

Spud Rig Procedure

Spudder rig will move in to drill the surface hole and pre-set surface casing on the well.

a. After drilling the surface hole section, the spudder rig will run casing and cement following all of the applicable rules and regulations (43 CFR 3172, all COAs and NMOCD regulations).

b. The spudder rig will utilize fresh water-based mud to drill the surface hole to TD. Solids control will be handled entirely on a closed loop basis. No earth pits will be used.

2. The wellhead will be installed and tested as soon as the surface casing is cut off and WOC time has been reached.

3. A blind flange at the same pressure rating as the wellhead will be installed to seal the wellbore. Pressure will be monitored with needle valves installed on two wing valves.

a. A means for intervention will be maintained while the drilling rig is not over the well.

4. Spudder rig operations are expected to take 2-3 days per well on the pad.

5. The BLM will be contacted and notified 24 hours prior to commencing spudder rig operations.

6. Drilling Operations will begin with a larger rig and a BOP stack equal to or greater than the pressure rating that was permitted will be nippled up and tested on the wellhead before drilling operations resume on each well.

a. The larger rig will move back onto the location within 90 days from the point at which the wells are secured and the spudder rig is moved off location.

b. The BLM will be notified 24 hours before the larger rig moves back on the pre-set locations

7. BTA Oil Producers, LLC will have supervision on the rig to ensure compliance with all BLM and NMOCD regulations and to oversee operations.

8. Once the rig is removed, BTA Oil Producers, LLC will secure the wellhead area by placing a guard rail around the cellar area

BOP Break Testing Request

BTA requests permission to allow BOP Break Testing under the following conditions:

- After a full BOP test is conducted on the first well on the pad.
- When skidding to drill a hole section that does not penetrate into the Wolfcamp.
- Full BOP test will be required prior to drilling any production hole.
- If the previous full BOP test was more than 21 days prior, then break test is not allowed and a full test is required. Break testing will only be performed on 5M BOPE and is not allowed for 10M BOPE.

Ochoa 8703 FEDERAL COM 9H

APD - Geology COAs (Not in Potash or WIPP)

- For at least one well per pad (deepest well within initial development preferred) the record of the drilling rate (ROP) along with the Gamma Ray (GR) and Neutron (CNL) well logs run from TVD to surface in the vertical section of the hole shall be submitted to the BLM office as well as all other logs run on the full borehole 30 days from completion. Any other logs run on the wellbore, excluding cement remediation, should also be sent. Only digital copies of the logs in .TIF or .LAS formats are necessary; paper logs are no longer required. Logs shall be emailed to blm-cfo-geology@doimspp.onmicrosoft.com. Well completion report should have .pdf copies of any CBLs or Temp Logs run on the wellbore.

- Exceptions: In areas where there is extensive log coverage (in particular the salt zone adjacent to a pad), Operators are encouraged to contact BLM Geologists to discuss if additional GR and N logs are necessary on a pad. Operator may request a waiver of the GR and N log requirement due to good well control or other reasons to be approved by BLM Geologist prior to well completion. A waiver approved by BLM must be attached to completion well report to satisfy COAs.

- The top of the Rustler, top and bottom of the Salt, and the top of the Capitan Reef (if present) are to be recorded on the Completion Report.

Be aware that:

- No H2S has been reported within one mile of the proposed project.

Questions? Contact Thomas Evans, BLM Geologist at 575-234-5965 or tvevans@blm.gov

PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	BTA OIL PRODUCERS LLC
WELL NAME & NO.:	OCHOA 8703 FED COM 9H
SURFACE HOLE FOOTAGE:	1814'/N & 500'/E
BOTTOM HOLE FOOTAGE	1270'/N & 2611'/W
LOCATION:	Section 12, T.23 S., R.28 E., NMP
COUNTY:	Eddy County, New Mexico

COA

H2S	(•) Yes	( ) No	
Potash	(•) None	( ) Secretary	( ) R-111-P
Cave/Karst Potential	(•) Low	( ) Medium	( ) High
Cave/Karst Potential	( ) Critical		
Variance	( ) None	(•) Flex Hose	( ) Other
Wellhead	( ) Conventional	(•) Multibowl	( ) Both
Wellhead Variance	( ) Diverter		
Other	[ ] 4 String	[ ] Capitan Reef	[ ] WIPP
Other	[ ] Fluid Filled	[ ] Pilot Hole	[ ] Open Annulus
Cementing	[ ] Contingency Cement Squeeze	[ ] EchoMeter	[ ] Primary Cement Squeeze
Special Requirements	[ ] Water Disposal	[x] COM	[ ] Unit
Special Requirements	[ ] Batch Sundry		
Special Requirements Variance	[x] Break Testing	[x] Offline Cementing	[ ] Casing Clearance

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated AT SPUD. As a result, the Hydrogen Sulfide area must meet 43 CFR part 3170 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

B. CASING

1. The **13-3/8** inch surface casing shall be set at approximately **270 feet per BLM Geologist** (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface. The surface hole shall be **17-1/2 inch** in diameter.

Approval Date: 02/21/2025

a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
d. If cement falls back, remedial cementing will be done prior to drilling out that string.

2. The minimum required fill of cement behind the **9-5/8** inch intermediate casing is:

- Cement to surface. If cement does not circulate see B.1.a, c-d above. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.**

❖ In Medium Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.

3. The minimum required fill of cement behind the **5-1/2** inch production casing is:

- Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.**

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'

2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the **13-3/8** inch surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M)** psi.

a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.

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b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
c. Manufacturer representative shall install the test plug for the initial BOP test.
d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- The operator will submit an as-drilled survey well plat of the well completion, but are not limited to, those specified in Onshore Order 1 and 2.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

(Note: For a minimum 5M BOPE or less (Utilizing a 10M BOPE system)
BOPE Break Testing Variance

- BOPE Break Testing is ONLY permitted for 5M BOPE or less. **(Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP)**
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer **(575-706-2779)** prior to the commencement of any BOPE Break Testing operations.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).

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- The BLM is to be contacted (575-361-2822 Eddy County) 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at 21-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per 43 CFR part 3170.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

Offline Cementing
Contact the BLM prior to the commencement of any offline cementing procedure.

GENERAL REQUIREMENTS

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

a. Spudding well (minimum of 24 hours)
b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
c. BOPE tests (minimum of 4 hours)

☒ Eddy County
EMAIL or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,
BLM_NM_CFO_DrillingNotifications@BLM.GOV
(575) 361-2822

☒ Lea County
Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240,
(575) 689-5981

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
    a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
    b. When the operator proposes to set surface casing with Spudder Rig
        i. Notify the BLM when moving in and removing the Spudder Rig.
        ii. Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
        iii. BOP/BOPE test to be conducted per **43 CFR 3172** as soon as 2nd Rig is rigged up on well.

2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
3. For intervals in which cement to surface is required, cement to surface should be verified with a visual check and density or pH check to differentiate cement from spacer and drilling mud. The results should be documented in the driller's log and daily reports.

A. CASING

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

Approval Date: 02/21/2025

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

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in **43 CFR 3172**.
2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
    i. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
    ii. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.

iii. Manufacturer representative shall install the test plug for the initial BOP test.
iv. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
v. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.

5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
   i. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
   ii. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)
   iii. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR 3172** with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for 8 hours or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
   iv. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart

for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.

v. The results of the test shall be reported to the appropriate BLM office.

vi. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.

vii. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.

viii. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per **43 CFR 3172**.

C. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

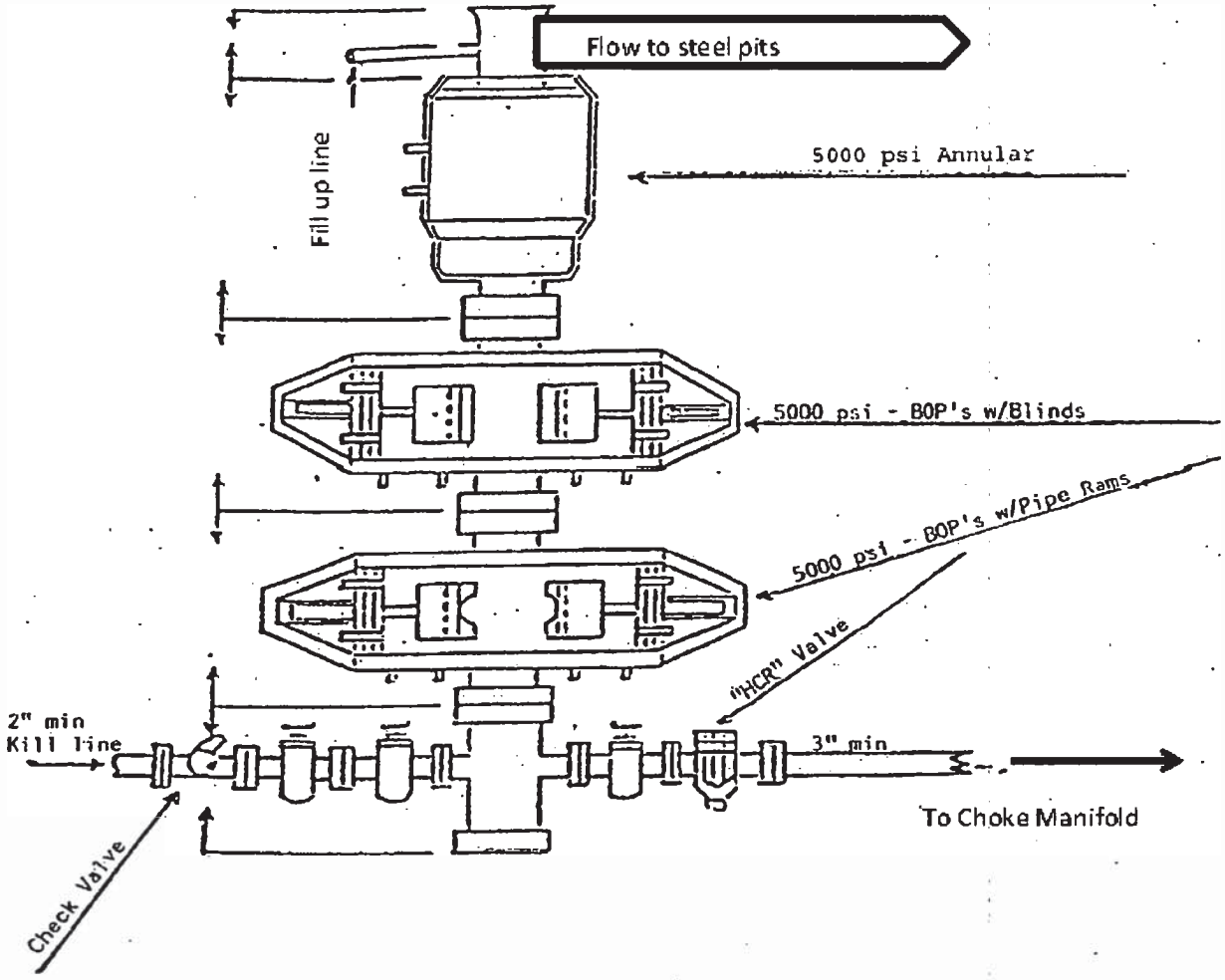
D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area. Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

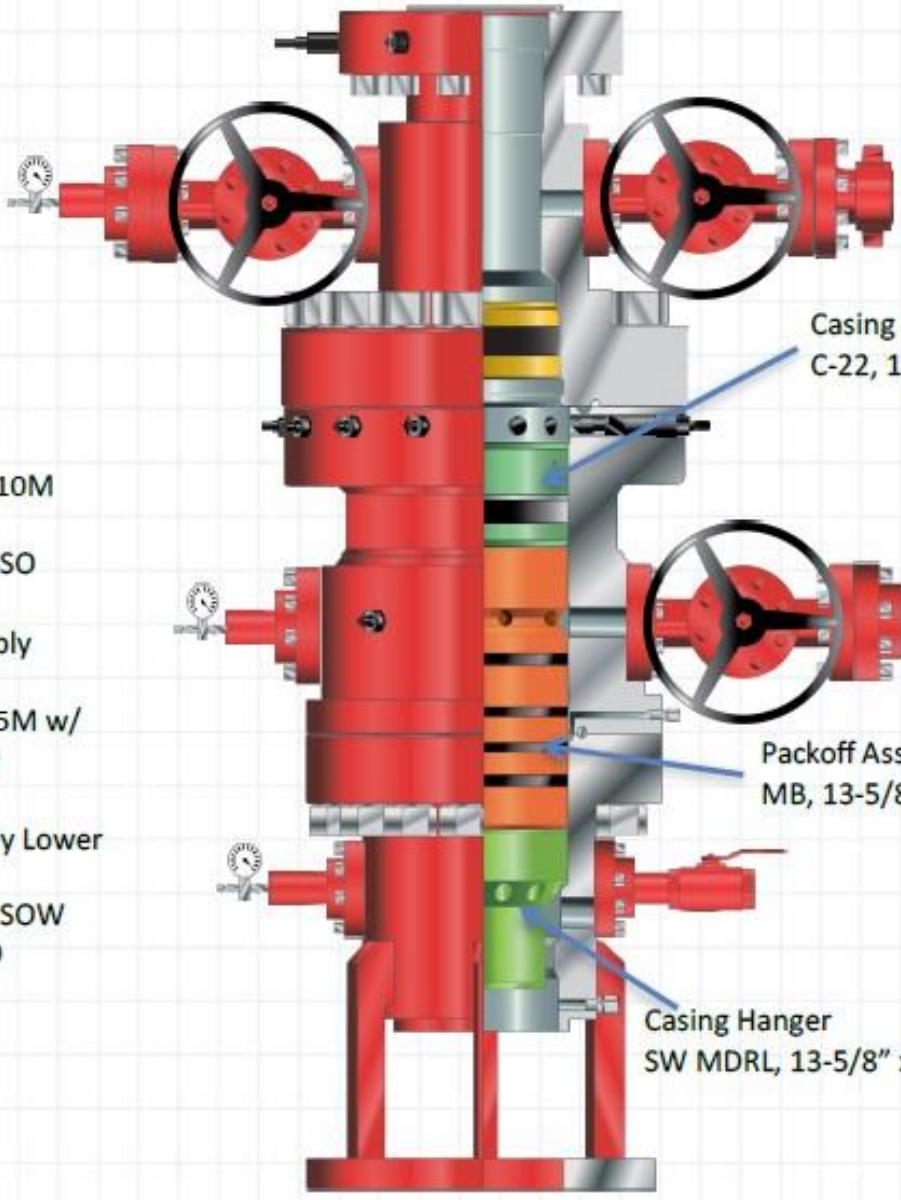
JS 2/6/2025

Approval Date: 02/21/2025

13-5/8" 5,000 PSI BOP



BTA



Tubing Head
SW-TCM
13-5/8"5M x 7-1/16"10M
5-1/2" PP Seal
w/ (2) 1-13/16"10M SSO

SW-MB Spool Assembly
Upper MBH
13-5/8"5M x 13-5/8"5M w/
(2) 2-1/16" 5MM SSO

Casing Head Assembly Lower
MBH
13-5/8"5M x 13-3/8" SOW
w/ (2) 2-1/16"5M SSO

SUECO WELLHEAD

McClinton Energy GROUP

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

CONDITIONS

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID: 260297
	Action Number: 434499
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
sammy hajar	Cement is required to circulate on both surface and intermediate1 strings of casing.	2/24/2025
sammy hajar	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	2/24/2025
ward.rikala	Notify the OCD 24 hours prior to casing & cement.	2/27/2025
ward.rikala	File As Drilled C-102 and a directional Survey with C-104 completion packet.	2/27/2025
ward.rikala	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string.	2/27/2025
ward.rikala	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.	2/27/2025