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. **30-025-53629**

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: 09/06/2024

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

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

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number	2 Pool Code	3 Pool Name
30-025-53629	97293	Ojo Chiso ; Bone Spring, South

4 Property Code	5 Property Name	6 Well Number
336287	BOBWHITE 22304 4-3 FED COM	4H

7 OGRID No.	8 Operator Name	9 Elevation
260297	BTA OIL PRODUCERS, LLC	3420'

10 Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	4	23S	34E		1400'	SOUTH	600'	WEST	LEA

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	3	23S	34E		825'	SOUTH	50'	EAST	LEA

12 Dedicated Acres	13 Joint or Infill	14 Consolidation Code	15 Order No.
640.00	Infill		

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.

16

SHL
FSL 1400' FWL 600', SECTION 04
NAD 83, SPCS NM EAST
X:804399.98' / Y:484918.61'
LAT:32.33023868 / LON:-103.48165876
NAD 27, SPCS NM EAST
X:763216.63' / Y:484858.65'
LAT:32.33011463 / LON:-103.48117922

KOP
FSL 825' FWL 20', SECTION 04
NAD 83, SPCS NM EAST
X:803825.23' / Y:484338.55'
LAT:32.32865688 / LON:-103.48353427
NAD 27, SPCS NM EAST
X:762641.88' / Y:484278.61'
LAT:32.32853286 / LON:-103.48305467

FTP/PPP-1
FSL 825' FWL 100', SECTION 04
NAD 83, SPCS NM EAST
X:803905.23' / Y:484339.25'
LAT:32.32865707 / LON:-103.48327528
NAD 27, SPCS NM EAST
X:762721.88' / Y:484279.31'
LAT:32.32853304 / LON:-103.48279570

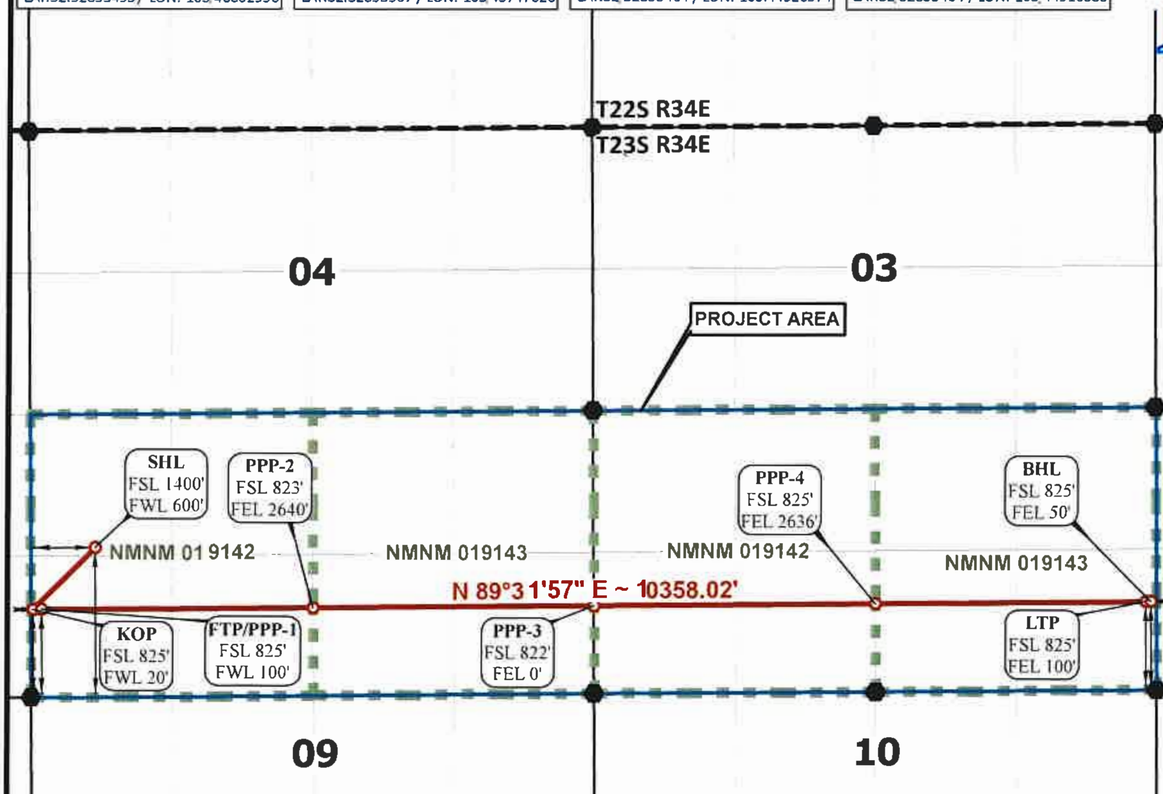
PPP-2
FSL 823' FEL 2640', SECTION 04
NAD 83, SPCS NM EAST
X:806444.74' / Y:484359.97'
LAT:32.32865837 / LON:-103.47505391
NAD 27, SPCS NM EAST
X:765261.32' / Y:484300.01'
LAT:32.32853425 / LON:-103.47457474

PPP-3
FSL 822' FEL 0', SECTIONS 03,04
NAD 83, SPCS NM EAST
X:809084.41' / Y:484381.51'
LAT:32.32865916 / LON:-103.46650829
NAD 27, SPCS NM EAST
X:767900.92' / Y:484321.53'
LAT:32.32853495 / LON:-103.46602956

PPP-4
FSL 825' FEL 2636', SECTION 03
NAD 83, SPCS NM EAST
X:811726.60' / Y:484403.07'
LAT:32.32865936 / LON:-103.45795456
NAD 27, SPCS NM EAST
X:770543.03' / Y:484343.07'
LAT:32.32853507 / LON:-103.45747626

LTP
FSL 825' FEL 100', SECTION 03
NAD 83, SPCS NM EAST
X:814262.90' / Y:484423.76'
LAT:32.32865902 / LON:-103.44974363
NAD 27, SPCS NM EAST
X:773079.26' / Y:484363.74'
LAT:32.32853464 / LON:-103.44926574

BHL
FSL 825' FEL 50', SECTION 03
NAD 83, SPCS NM EAST
X:814312.90' / Y:484424.18'
LAT:32.32865902 / LON:-103.44958176
NAD 27, SPCS NM EAST
X:773129.26' / Y:484364.15'
LAT:32.32853464 / LON:-103.44910389



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.
... measurements. Combined Scale Factor: 0.99983195 and a Convergence Angle: 0.46393611°

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: [signature]   Date: 1/12/2024

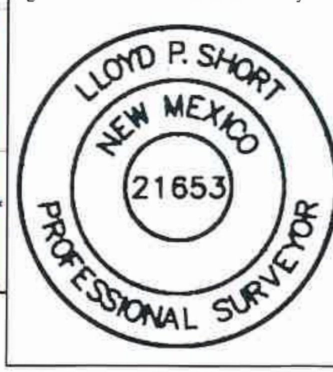
Sammy Hajar
Printed Name

SHAJAR@BTAOIL.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.

[signature]

Date of Survey: JANUARY 11, 2024
Signature and Seal of Professional Surveyor



SHEET 1 OF 1
JOB No. BTA_0022_BW
REV 2 TCS 1/10/2024

Intent ☐ As Drilled ☐

API #

Operator Name:	Property Name:	Well Number

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County

Latitude	Longitude	NAD

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County

Latitude	Longitude	NAD

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County

Latitude	Longitude	NAD

Is this well the defining well for the Horizontal Spacing Unit? ☐

Is this well an infill well? ☐

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #

Operator Name:	Property Name:	Well Number

KZ 06/29/2018

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:** 3 / 10 / 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
Bobwhite 22304 4-3 FED COM 4H		L-4-23S-34E	1400 FSL, 600 FWL	+/- 800	+/- 2000	+/- 1200

IV. Central Delivery Point Name: BOB WHITE 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
Bobwhite 22304 4-3 FED COM 4H		12/21/2024	1/10/2025	1/24/2025	2/14/2025	3/16/2025

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:	3/10/2024
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 separate all three phases (Oil, Water, and Gas).
- 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 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.
- Leaking thief hatches and pressure safety valves found during AVOs will be cleaned and properly re-sealed.
- All flares will be equipped with auto-ignition systems and continuous pilot operations.
- 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.

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

Drilling Plan Data Report
09/09/2024

APD ID: 10400097536
Submission Date: 03/15/2024
Operator Name: BTA OIL PRODUCERS LLC
Well Name: BOBWHITE 22304 4-3 FED COM
Well Number: 4H
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
14095901	QUATERNARY	3420	0	0	ALLUVIUM	NONE	N
14095902	RUSTLER	1875	1545	1545	ANHYDRITE	NONE	N
14095903	TOP SALT	1575	1845	1845	SALT	NONE	N
14095904	BASE OF SALT	425	2995	2995	SALT	NONE	N
14095899	DELAWARE	-1675	5095	5095	LIMESTONE	NONE	N
14095905	BELL CANYON	-1805	5225	5225	SANDSTONE	NATURAL GAS, OIL	N
14095914	CHERRY CANYON	-2640	6060	6060	SANDSTONE	NATURAL GAS, OIL	N
14095907	BRUSHY CANYON	-3695	7115	7115	SANDSTONE	NATURAL GAS, OIL	N
14095908	BONE SPRING LIME	-5045	8465	8465	LIMESTONE	NATURAL GAS, OIL	N
14095909	BONE SPRING 1ST	-6125	9545	9545	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 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:

Operator Name: BTA OIL PRODUCERS LLC

Well Name: BOBWHITE 22304 4-3 FED COM **Well Number:** 4H

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

Choke_Hose___Test_Chart_and_Specs_20190723082742.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	1545	0	1545	3420	1875	1545	J-55	54.5	ST&C	1.7	4.1	DRY	6.1	DRY	10.1
2	INTERMEDIATE	12.25	9.625	NEW	API	N	0	5100	0	5100	3419	-1680	5100	J-55	40	LT&C	1.9	1.6	DRY	2.5	DRY	3.1
3	PRODUCTION	8.75	5.5	NEW	API	N	0	19997	0	9680	3419	-6260	19997	P-110	17	BUTT	1.6	2.2	DRY	1.7	DRY	1.6

Casing Attachments

Casing ID: 1 **String** SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Operator Name: BTA OIL PRODUCERS LLC

Well Name: BOBWHITE 22304 4-3 FED COM **Well Number:** 4H

Casing Attachments

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):

Bobwhite_4H_Casing_Assumption_20240315082325.pdf

Section 4 - Cement

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	1210	975	1.73	13.5	1686.75	100	Class C	2% CaCl2
SURFACE	Tail		1210	1545	340	1.35	14.8	459	100	Class C	2% CaCl2
INTERMEDIATE	Lead		0	4545	1340	2.46	12.8	3296.4	100	Class C	0.5% CaCl2
INTERMEDIATE	Tail		4545	5100	200	1.34	14.8	268	25	Class C	1% CaCl2
PRODUCTION	Lead		4100	9910	570	3.9	10.5	2223	60	25% Poz 75% Class C	0.4% Fluid Loss

Operator Name: BTA OIL PRODUCERS LLC

Well Name: BOBWHITE 22304 4-3 FED COM **Well Number:** 4H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
PRODUCTION	Tail		9910	19997	2550	1.25	14.4	3187.5	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	1545	OTHER : FW SPUD	8.3	8.4							
1545	5100	OTHER : FW GEL	9	9.4							
5100	9680	OTHER : CUT BRINE	8.7	9.3							

Operator Name: BTA OIL PRODUCERS LLC

Well Name: BOBWHITE 22304 4-3 FED COM **Well Number:** 4H

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: 4732 **Anticipated Surface Pressure:** 2602

Anticipated Bottom Hole Temperature(F): 157

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:

NGMP___Bobwhite_4H_20240315082842.pdf
Standard_Plan___Geographic____Bobwhite__4H_20240315082853.pdf
Bobwhite__4H_wall_plot_20240315082853.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:

BOP_Break_Testing_Variance_20200917143242.pdf
BTA_Tubing_Requirement_Exception_Request_20230912152227.pdf
Multi_Bowl_Diagram_13_38_x_9_58_x_5_12_20200917143315.pdf

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

WELL: Bobwhite 22304 4-3 Fed Com #4H
TVD: 9680
MD: 19997

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	1545	0	1545	No	54.5	J-55	STC	1.7	4.1	10.1	6.1	Dry	8.3
12 1/4	9 5/8	0	5100	0	5100	No	40	J-55	LTC	1.9	1.6	3.1	2.5	Dry	9.4
8 3/4	5.5	0	19997	0	9680	No	17	P110	Buttress	1.6	2.2	1.6	1.7	Dry	9.4

BTA Oil Producers, LLC

Lea County, NM (NAD 83)
Bobwhite 22304 4-3 Fed Com
Bobwhite 22304 4-3 Fed Com #4H

Wellbore #1

Plan: Design #1

Standard Planning Report - Geographic

12 March, 2024

Microsoft

Planning Report - Geographic

Database:	EDM5000_OLD	**Local Co-ordinate Reference:**	Well Bobwhite 22304 4-3 Fed Com #4H
Company:	BTA Oil Producers, LLC	**TVD Reference:**	GL @ 3420.0usft
Project:	Lea County, NM (NAD 83)	**MD Reference:**	GL @ 3420.0usft
Site:	Bobwhite 22304 4-3 Fed Com	**North Reference:**	Grid
Well:	Bobwhite 22304 4-3 Fed Com #4H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Project Lea County, NM (NAD 83), Lea County, NM

Map System:	US State Plane 1983	**System Datum:**	Ground Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		Using geodetic scale factor

Site Bobwhite 22304 4-3 Fed Com

Site Position:		**Northing:**	0.00 usft	**Latitude:**	30° 59' 18.404 N
From:	Map	**Easting:**	0.00 usft	**Longitude:**	106° 3' 38.987 W
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "		

Well Bobwhite 22304 4-3 Fed Com #4H

Well Position	**+N/-S**	0.0 usft	**Northing:**	484,918.61 usft	**Latitude:**	32° 19' 48.859 N
	+E/-W	0.0 usft	**Easting:**	804,399.98 usft	**Longitude:**	103° 28' 53.972 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**	usft	**Ground Level:**	3,420.0 usft
Grid Convergence:		0.46 °				

Wellbore Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	12/31/2009	7.72	60.36	48,893.54545180

Design Design #1

Audit Notes:

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

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	92.86

Plan Survey Tool Program **Date** 3/12/2024

	Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	19,997.5	Design #1 (Wellbore #1)		

Microsoft

Planning Report - Geographic

Database:	EDM5000_OLD	**Local Co-ordinate Reference:**	Well Bobwhite 22304 4-3 Fed Com #4H
Company:	BTA Oil Producers, LLC	**TVD Reference:**	GL @ 3420.0usft
Project:	Lea County, NM (NAD 83)	**MD Reference:**	GL @ 3420.0usft
Site:	Bobwhite 22304 4-3 Fed Com	**North Reference:**	Grid
Well:	Bobwhite 22304 4-3 Fed Com #4H	**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	
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.00	0.00	0.00	0.00	
4,050.0	11.00	224.74	4,046.6	-37.4	-37.0	2.00	2.00	0.00	224.74	
7,777.9	11.00	224.74	7,706.1	-542.7	-537.7	0.00	0.00	0.00	0.00	
8,327.9	0.00	0.00	8,252.7	-580.1	-574.8	2.00	-2.00	0.00	180.00	
8,575.2	0.00	0.00	8,500.0	-580.1	-574.8	0.00	0.00	0.00	0.00	KOP Bobwhite #4H
9,182.3	0.00	0.00	9,107.0	-580.1	-574.8	0.00	0.00	0.00	0.00	
10,082.3	90.00	89.53	9,680.0	-575.4	-1.8	10.00	10.00	0.00	89.53	
19,997.5	90.00	89.53	9,680.0	-494.4	9,913.0	0.00	0.00	0.00	0.00	BHL bobwhite #4h

Microsoft

Planning Report - Geographic

Database:	EDM5000_OLD	**Local Co-ordinate Reference:**	Well Bobwhite 22304 4-3 Fed Com #4H
Company:	BTA Oil Producers, LLC	**TVD Reference:**	GL @ 3420.0usft
Project:	Lea County, NM (NAD 83)	**MD Reference:**	GL @ 3420.0usft
Site:	Bobwhite 22304 4-3 Fed Com	**North Reference:**	Grid
Well:	Bobwhite 22304 4-3 Fed Com #4H	**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)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.0	0.00	0.00	0.0	0.0	0.0	484,918.61	804,399.98	32° 19' 48.859 N	103° 28' 53.972 W
100.0	0.00	0.00	100.0	0.0	0.0	484,918.61	804,399.98	32° 19' 48.859 N	103° 28' 53.972 W
200.0	0.00	0.00	200.0	0.0	0.0	484,918.61	804,399.98	32° 19' 48.859 N	103° 28' 53.972 W
300.0	0.00	0.00	300.0	0.0	0.0	484,918.61	804,399.98	32° 19' 48.859 N	103° 28' 53.972 W
400.0	0.00	0.00	400.0	0.0	0.0	484,918.61	804,399.98	32° 19' 48.859 N	103° 28' 53.972 W
500.0	0.00	0.00	500.0	0.0	0.0	484,918.61	804,399.98	32° 19' 48.859 N	103° 28' 53.972 W
600.0	0.00	0.00	600.0	0.0	0.0	484,918.61	804,399.98	32° 19' 48.859 N	103° 28' 53.972 W
700.0	0.00	0.00	700.0	0.0	0.0	484,918.61	804,399.98	32° 19' 48.859 N	103° 28' 53.972 W
800.0	0.00	0.00	800.0	0.0	0.0	484,918.61	804,399.98	32° 19' 48.859 N	103° 28' 53.972 W
900.0	0.00	0.00	900.0	0.0	0.0	484,918.61	804,399.98	32° 19' 48.859 N	103° 28' 53.972 W
1,000.0	0.00	0.00	1,000.0	0.0	0.0	484,918.61	804,399.98	32° 19' 48.859 N	103° 28' 53.972 W
1,100.0	0.00	0.00	1,100.0	0.0	0.0	484,918.61	804,399.98	32° 19' 48.859 N	103° 28' 53.972 W
1,200.0	0.00	0.00	1,200.0	0.0	0.0	484,918.61	804,399.98	32° 19' 48.859 N	103° 28' 53.972 W
1,300.0	0.00	0.00	1,300.0	0.0	0.0	484,918.61	804,399.98	32° 19' 48.859 N	103° 28' 53.972 W
1,400.0	0.00	0.00	1,400.0	0.0	0.0	484,918.61	804,399.98	32° 19' 48.859 N	103° 28' 53.972 W
1,500.0	0.00	0.00	1,500.0	0.0	0.0	484,918.61	804,399.98	32° 19' 48.859 N	103° 28' 53.972 W
1,600.0	0.00	0.00	1,600.0	0.0	0.0	484,918.61	804,399.98	32° 19' 48.859 N	103° 28' 53.972 W
1,700.0	0.00	0.00	1,700.0	0.0	0.0	484,918.61	804,399.98	32° 19' 48.859 N	103° 28' 53.972 W
1,800.0	0.00	0.00	1,800.0	0.0	0.0	484,918.61	804,399.98	32° 19' 48.859 N	103° 28' 53.972 W
1,900.0	0.00	0.00	1,900.0	0.0	0.0	484,918.61	804,399.98	32° 19' 48.859 N	103° 28' 53.972 W
2,000.0	0.00	0.00	2,000.0	0.0	0.0	484,918.61	804,399.98	32° 19' 48.859 N	103° 28' 53.972 W
2,100.0	0.00	0.00	2,100.0	0.0	0.0	484,918.61	804,399.98	32° 19' 48.859 N	103° 28' 53.972 W
2,200.0	0.00	0.00	2,200.0	0.0	0.0	484,918.61	804,399.98	32° 19' 48.859 N	103° 28' 53.972 W
2,300.0	0.00	0.00	2,300.0	0.0	0.0	484,918.61	804,399.98	32° 19' 48.859 N	103° 28' 53.972 W
2,400.0	0.00	0.00	2,400.0	0.0	0.0	484,918.61	804,399.98	32° 19' 48.859 N	103° 28' 53.972 W
2,500.0	0.00	0.00	2,500.0	0.0	0.0	484,918.61	804,399.98	32° 19' 48.859 N	103° 28' 53.972 W
2,600.0	0.00	0.00	2,600.0	0.0	0.0	484,918.61	804,399.98	32° 19' 48.859 N	103° 28' 53.972 W
2,700.0	0.00	0.00	2,700.0	0.0	0.0	484,918.61	804,399.98	32° 19' 48.859 N	103° 28' 53.972 W
2,800.0	0.00	0.00	2,800.0	0.0	0.0	484,918.61	804,399.98	32° 19' 48.859 N	103° 28' 53.972 W
2,900.0	0.00	0.00	2,900.0	0.0	0.0	484,918.61	804,399.98	32° 19' 48.859 N	103° 28' 53.972 W
3,000.0	0.00	0.00	3,000.0	0.0	0.0	484,918.61	804,399.98	32° 19' 48.859 N	103° 28' 53.972 W
3,100.0	0.00	0.00	3,100.0	0.0	0.0	484,918.61	804,399.98	32° 19' 48.859 N	103° 28' 53.972 W
3,200.0	0.00	0.00	3,200.0	0.0	0.0	484,918.61	804,399.98	32° 19' 48.859 N	103° 28' 53.972 W
3,300.0	0.00	0.00	3,300.0	0.0	0.0	484,918.61	804,399.98	32° 19' 48.859 N	103° 28' 53.972 W
3,400.0	0.00	0.00	3,400.0	0.0	0.0	484,918.61	804,399.98	32° 19' 48.859 N	103° 28' 53.972 W
3,500.0	0.00	0.00	3,500.0	0.0	0.0	484,918.61	804,399.98	32° 19' 48.859 N	103° 28' 53.972 W
3,600.0	2.00	224.74	3,600.0	-1.2	-1.2	484,917.37	804,398.75	32° 19' 48.847 N	103° 28' 53.986 W
3,700.0	4.00	224.74	3,699.8	-5.0	-4.9	484,913.65	804,395.07	32° 19' 48.811 N	103° 28' 54.029 W
3,800.0	6.00	224.74	3,799.5	-11.1	-11.0	484,907.46	804,388.93	32° 19' 48.750 N	103° 28' 54.101 W
3,900.0	8.00	224.74	3,898.7	-19.8	-19.6	484,898.81	804,380.35	32° 19' 48.665 N	103° 28' 54.202 W
4,000.0	10.00	224.74	3,997.5	-30.9	-30.6	484,887.69	804,369.35	32° 19' 48.556 N	103° 28' 54.331 W
4,050.0	11.00	224.74	4,046.6	-37.4	-37.0	484,881.22	804,362.93	32° 19' 48.492 N	103° 28' 54.407 W
4,100.0	11.00	224.74	4,095.7	-44.2	-43.8	484,874.45	804,356.22	32° 19' 48.426 N	103° 28' 54.486 W
4,200.0	11.00	224.74	4,193.9	-57.7	-57.2	484,860.89	804,342.79	32° 19' 48.293 N	103° 28' 54.643 W
4,300.0	11.00	224.74	4,292.0	-71.3	-70.6	484,847.34	804,329.36	32° 19' 48.160 N	103° 28' 54.801 W
4,400.0	11.00	224.74	4,390.2	-84.8	-84.1	484,833.78	804,315.93	32° 19' 48.026 N	103° 28' 54.959 W
4,500.0	11.00	224.74	4,488.4	-98.4	-97.5	484,820.23	804,302.50	32° 19' 47.893 N	103° 28' 55.117 W
4,600.0	11.00	224.74	4,586.5	-111.9	-110.9	484,806.68	804,289.07	32° 19' 47.760 N	103° 28' 55.274 W
4,700.0	11.00	224.74	4,684.7	-125.5	-124.3	484,793.12	804,275.64	32° 19' 47.627 N	103° 28' 55.432 W
4,800.0	11.00	224.74	4,782.8	-139.0	-137.8	484,779.57	804,262.21	32° 19' 47.494 N	103° 28' 55.590 W
4,900.0	11.00	224.74	4,881.0	-152.6	-151.2	484,766.01	804,248.78	32° 19' 47.361 N	103° 28' 55.748 W
5,000.0	11.00	224.74	4,979.2	-166.2	-164.6	484,752.46	804,235.35	32° 19' 47.228 N	103° 28' 55.906 W
5,100.0	11.00	224.74	5,077.3	-179.7	-178.1	484,738.91	804,221.92	32° 19' 47.095 N	103° 28' 56.063 W
5,200.0	11.00	224.74	5,175.5	-193.3	-191.5	484,725.35	804,208.49	32° 19' 46.962 N	103° 28' 56.221 W
5,300.0	11.00	224.74	5,273.7	-206.8	-204.9	484,711.80	804,195.06	32° 19' 46.829 N	103° 28' 56.379 W

Microsoft

Planning Report - Geographic

Database:	EDM5000_OLD	**Local Co-ordinate Reference:**	Well Bobwhite 22304 4-3 Fed Com #4H
Company:	BTA Oil Producers, LLC	**TVD Reference:**	GL @ 3420.0usft
Project:	Lea County, NM (NAD 83)	**MD Reference:**	GL @ 3420.0usft
Site:	Bobwhite 22304 4-3 Fed Com	**North Reference:**	Grid
Well:	Bobwhite 22304 4-3 Fed Com #4H	**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)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
5,400.0	11.00	224.74	5,371.8	-220.4	-218.4	484,698.24	804,181.63	32° 19' 46.696 N	103° 28' 56.537 W
5,500.0	11.00	224.74	5,470.0	-233.9	-231.8	484,684.69	804,168.20	32° 19' 46.563 N	103° 28' 56.694 W
5,600.0	11.00	224.74	5,568.1	-247.5	-245.2	484,671.14	804,154.77	32° 19' 46.430 N	103° 28' 56.852 W
5,700.0	11.00	224.74	5,666.3	-261.0	-258.6	484,657.58	804,141.34	32° 19' 46.297 N	103° 28' 57.010 W
5,800.0	11.00	224.74	5,764.5	-274.6	-272.1	484,644.03	804,127.91	32° 19' 46.164 N	103° 28' 57.168 W
5,900.0	11.00	224.74	5,862.6	-288.1	-285.5	484,630.47	804,114.48	32° 19' 46.031 N	103° 28' 57.325 W
6,000.0	11.00	224.74	5,960.8	-301.7	-298.9	484,616.92	804,101.05	32° 19' 45.898 N	103° 28' 57.483 W
6,100.0	11.00	224.74	6,059.0	-315.2	-312.4	484,603.37	804,087.62	32° 19' 45.764 N	103° 28' 57.641 W
6,200.0	11.00	224.74	6,157.1	-328.8	-325.8	484,589.81	804,074.19	32° 19' 45.631 N	103° 28' 57.799 W
6,300.0	11.00	224.74	6,255.3	-342.4	-339.2	484,576.26	804,060.76	32° 19' 45.498 N	103° 28' 57.957 W
6,400.0	11.00	224.74	6,353.5	-355.9	-352.7	484,562.70	804,047.33	32° 19' 45.365 N	103° 28' 58.114 W
6,500.0	11.00	224.74	6,451.6	-369.5	-366.1	484,549.15	804,033.90	32° 19' 45.232 N	103° 28' 58.272 W
6,600.0	11.00	224.74	6,549.8	-383.0	-379.5	484,535.60	804,020.47	32° 19' 45.099 N	103° 28' 58.430 W
6,700.0	11.00	224.74	6,647.9	-396.6	-392.9	484,522.04	804,007.04	32° 19' 44.966 N	103° 28' 58.588 W
6,800.0	11.00	224.74	6,746.1	-410.1	-406.4	484,508.49	803,993.61	32° 19' 44.833 N	103° 28' 58.745 W
6,900.0	11.00	224.74	6,844.3	-423.7	-419.8	484,494.93	803,980.18	32° 19' 44.700 N	103° 28' 58.903 W
7,000.0	11.00	224.74	6,942.4	-437.2	-433.2	484,481.38	803,966.75	32° 19' 44.567 N	103° 28' 59.061 W
7,100.0	11.00	224.74	7,040.6	-450.8	-446.7	484,467.83	803,953.32	32° 19' 44.434 N	103° 28' 59.219 W
7,200.0	11.00	224.74	7,138.8	-464.3	-460.1	484,454.27	803,939.89	32° 19' 44.301 N	103° 28' 59.376 W
7,300.0	11.00	224.74	7,236.9	-477.9	-473.5	484,440.72	803,926.46	32° 19' 44.168 N	103° 28' 59.534 W
7,400.0	11.00	224.74	7,335.1	-491.5	-487.0	484,427.16	803,913.03	32° 19' 44.035 N	103° 28' 59.692 W
7,500.0	11.00	224.74	7,433.2	-505.0	-500.4	484,413.61	803,899.60	32° 19' 43.902 N	103° 28' 59.850 W
7,600.0	11.00	224.74	7,531.4	-518.6	-513.8	484,400.06	803,886.17	32° 19' 43.769 N	103° 29' 0.007 W
7,700.0	11.00	224.74	7,629.6	-532.1	-527.2	484,386.50	803,872.74	32° 19' 43.636 N	103° 29' 0.165 W
7,777.9	11.00	224.74	7,706.1	-542.7	-537.7	484,375.94	803,862.27	32° 19' 43.532 N	103° 29' 0.288 W
7,800.0	10.56	224.74	7,727.7	-545.6	-540.6	484,373.01	803,859.37	32° 19' 43.503 N	103° 29' 0.322 W
7,900.0	8.56	224.74	7,826.4	-557.4	-552.3	484,361.21	803,847.68	32° 19' 43.387 N	103° 29' 0.460 W
8,000.0	6.56	224.74	7,925.5	-566.7	-561.6	484,351.87	803,838.42	32° 19' 43.296 N	103° 29' 0.568 W
8,100.0	4.56	224.74	8,025.0	-573.6	-568.4	484,344.99	803,831.61	32° 19' 43.228 N	103° 29' 0.648 W
8,200.0	2.56	224.74	8,124.8	-578.0	-572.7	484,340.58	803,827.24	32° 19' 43.185 N	103° 29' 0.700 W
8,300.0	0.56	224.74	8,224.8	-580.0	-574.7	484,338.65	803,825.32	32° 19' 43.166 N	103° 29' 0.722 W
8,327.9	0.00	0.00	8,252.7	-580.1	-574.8	484,338.55	803,825.23	32° 19' 43.165 N	103° 29' 0.723 W
8,400.0	0.00	0.00	8,324.8	-580.1	-574.8	484,338.55	803,825.23	32° 19' 43.165 N	103° 29' 0.723 W
8,500.0	0.00	0.00	8,424.8	-580.1	-574.8	484,338.55	803,825.23	32° 19' 43.165 N	103° 29' 0.723 W
8,575.2	0.00	0.00	8,500.0	-580.1	-574.8	484,338.55	803,825.23	32° 19' 43.165 N	103° 29' 0.723 W
8,600.0	0.00	0.00	8,524.8	-580.1	-574.8	484,338.55	803,825.23	32° 19' 43.165 N	103° 29' 0.723 W
8,700.0	0.00	0.00	8,624.8	-580.1	-574.8	484,338.55	803,825.23	32° 19' 43.165 N	103° 29' 0.723 W
8,800.0	0.00	0.00	8,724.8	-580.1	-574.8	484,338.55	803,825.23	32° 19' 43.165 N	103° 29' 0.723 W
8,900.0	0.00	0.00	8,824.8	-580.1	-574.8	484,338.55	803,825.23	32° 19' 43.165 N	103° 29' 0.723 W
9,000.0	0.00	0.00	8,924.8	-580.1	-574.8	484,338.55	803,825.23	32° 19' 43.165 N	103° 29' 0.723 W
9,100.0	0.00	0.00	9,024.8	-580.1	-574.8	484,338.55	803,825.23	32° 19' 43.165 N	103° 29' 0.723 W
9,182.3	0.00	0.00	9,107.0	-580.1	-574.8	484,338.55	803,825.23	32° 19' 43.165 N	103° 29' 0.723 W
9,200.0	1.77	89.53	9,124.8	-580.1	-574.5	484,338.55	803,825.50	32° 19' 43.165 N	103° 29' 0.720 W
9,300.0	11.77	89.53	9,223.9	-580.0	-562.7	484,338.65	803,837.28	32° 19' 43.165 N	103° 29' 0.583 W
9,400.0	21.77	89.53	9,319.6	-579.7	-533.9	484,338.88	803,866.10	32° 19' 43.165 N	103° 29' 0.247 W
9,500.0	31.77	89.53	9,408.7	-579.4	-488.9	484,339.25	803,911.08	32° 19' 43.165 N	103° 28' 59.723 W
9,600.0	41.77	89.53	9,488.7	-578.9	-429.1	484,339.74	803,970.87	32° 19' 43.165 N	103° 28' 59.026 W
9,700.0	51.77	89.53	9,557.1	-578.3	-356.3	484,340.33	804,043.63	32° 19' 43.165 N	103° 28' 58.178 W
9,800.0	61.77	89.53	9,611.9	-577.6	-272.8	484,341.02	804,127.17	32° 19' 43.165 N	103° 28' 57.204 W
9,900.0	71.77	89.53	9,651.2	-576.9	-181.0	484,341.77	804,218.95	32° 19' 43.166 N	103° 28' 56.135 W
10,000.0	81.77	89.53	9,674.1	-576.1	-83.8	484,342.56	804,316.17	32° 19' 43.166 N	103° 28' 55.002 W
10,082.3	90.00	89.53	9,680.0	-575.4	-1.8	484,343.23	804,398.16	32° 19' 43.166 N	103° 28' 54.046 W
10,100.0	90.00	89.53	9,680.0	-575.2	15.9	484,343.37	804,415.88	32° 19' 43.166 N	103° 28' 53.840 W
10,200.0	90.00	89.53	9,680.0	-574.4	115.9	484,344.19	804,515.87	32° 19' 43.166 N	103° 28' 52.674 W
10,300.0	90.00	89.53	9,680.0	-573.6	215.9	484,345.01	804,615.87	32° 19' 43.167 N	103° 28' 51.509 W

Microsoft

Planning Report - Geographic

Database:	EDM5000_OLD	**Local Co-ordinate Reference:**	Well Bobwhite 22304 4-3 Fed Com #4H
Company:	BTA Oil Producers, LLC	**TVD Reference:**	GL @ 3420.0usft
Project:	Lea County, NM (NAD 83)	**MD Reference:**	GL @ 3420.0usft
Site:	Bobwhite 22304 4-3 Fed Com	**North Reference:**	Grid
Well:	Bobwhite 22304 4-3 Fed Com #4H	**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)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
10,400.0	90.00	89.53	9,680.0	-572.8	315.9	484,345.82	804,715.87	32° 19' 43.167 N	103° 28' 50.343 W
10,500.0	90.00	89.53	9,680.0	-572.0	415.9	484,346.64	804,815.86	32° 19' 43.167 N	103° 28' 49.178 W
10,600.0	90.00	89.53	9,680.0	-571.2	515.9	484,347.46	804,915.86	32° 19' 43.167 N	103° 28' 48.013 W
10,700.0	90.00	89.53	9,680.0	-570.3	615.9	484,348.27	805,015.85	32° 19' 43.167 N	103° 28' 46.847 W
10,800.0	90.00	89.53	9,680.0	-569.5	715.9	484,349.09	805,115.85	32° 19' 43.168 N	103° 28' 45.682 W
10,900.0	90.00	89.53	9,680.0	-568.7	815.9	484,349.90	805,215.84	32° 19' 43.168 N	103° 28' 44.516 W
11,000.0	90.00	89.53	9,680.0	-567.9	915.9	484,350.72	805,315.84	32° 19' 43.168 N	103° 28' 43.351 W
11,100.0	90.00	89.53	9,680.0	-567.1	1,015.9	484,351.54	805,415.83	32° 19' 43.168 N	103° 28' 42.186 W
11,200.0	90.00	89.53	9,680.0	-566.3	1,115.9	484,352.35	805,515.83	32° 19' 43.168 N	103° 28' 41.020 W
11,300.0	90.00	89.53	9,680.0	-565.4	1,215.9	484,353.17	805,615.83	32° 19' 43.168 N	103° 28' 39.855 W
11,400.0	90.00	89.53	9,680.0	-564.6	1,315.9	484,353.99	805,715.82	32° 19' 43.169 N	103° 28' 38.689 W
11,500.0	90.00	89.53	9,680.0	-563.8	1,415.9	484,354.80	805,815.82	32° 19' 43.169 N	103° 28' 37.524 W
11,600.0	90.00	89.53	9,680.0	-563.0	1,515.9	484,355.62	805,915.81	32° 19' 43.169 N	103° 28' 36.358 W
11,700.0	90.00	89.53	9,680.0	-562.2	1,615.8	484,356.44	806,015.81	32° 19' 43.169 N	103° 28' 35.193 W
11,800.0	90.00	89.53	9,680.0	-561.4	1,715.8	484,357.25	806,115.80	32° 19' 43.169 N	103° 28' 34.028 W
11,900.0	90.00	89.53	9,680.0	-560.5	1,815.8	484,358.07	806,215.80	32° 19' 43.169 N	103° 28' 32.862 W
12,000.0	90.00	89.53	9,680.0	-559.7	1,915.8	484,358.89	806,315.79	32° 19' 43.170 N	103° 28' 31.697 W
12,100.0	90.00	89.53	9,680.0	-558.9	2,015.8	484,359.70	806,415.79	32° 19' 43.170 N	103° 28' 30.531 W
12,200.0	90.00	89.53	9,680.0	-558.1	2,115.8	484,360.52	806,515.78	32° 19' 43.170 N	103° 28' 29.366 W
12,300.0	90.00	89.53	9,680.0	-557.3	2,215.8	484,361.34	806,615.78	32° 19' 43.170 N	103° 28' 28.201 W
12,400.0	90.00	89.53	9,680.0	-556.5	2,315.8	484,362.15	806,715.78	32° 19' 43.170 N	103° 28' 27.035 W
12,500.0	90.00	89.53	9,680.0	-555.6	2,415.8	484,362.97	806,815.77	32° 19' 43.170 N	103° 28' 25.870 W
12,600.0	90.00	89.53	9,680.0	-554.8	2,515.8	484,363.78	806,915.77	32° 19' 43.170 N	103° 28' 24.704 W
12,700.0	90.00	89.53	9,680.0	-554.0	2,615.8	484,364.60	807,015.76	32° 19' 43.171 N	103° 28' 23.539 W
12,800.0	90.00	89.53	9,680.0	-553.2	2,715.8	484,365.42	807,115.76	32° 19' 43.171 N	103° 28' 22.374 W
12,900.0	90.00	89.53	9,680.0	-552.4	2,815.8	484,366.23	807,215.75	32° 19' 43.171 N	103° 28' 21.208 W
13,000.0	90.00	89.53	9,680.0	-551.6	2,915.8	484,367.05	807,315.75	32° 19' 43.171 N	103° 28' 20.043 W
13,100.0	90.00	89.53	9,680.0	-550.8	3,015.8	484,367.87	807,415.74	32° 19' 43.171 N	103° 28' 18.877 W
13,200.0	90.00	89.53	9,680.0	-549.9	3,115.8	484,368.68	807,515.74	32° 19' 43.171 N	103° 28' 17.712 W
13,300.0	90.00	89.53	9,680.0	-549.1	3,215.8	484,369.50	807,615.74	32° 19' 43.171 N	103° 28' 16.547 W
13,400.0	90.00	89.53	9,680.0	-548.3	3,315.8	484,370.32	807,715.73	32° 19' 43.171 N	103° 28' 15.381 W
13,500.0	90.00	89.53	9,680.0	-547.5	3,415.8	484,371.13	807,815.73	32° 19' 43.172 N	103° 28' 14.216 W
13,600.0	90.00	89.53	9,680.0	-546.7	3,515.8	484,371.95	807,915.72	32° 19' 43.172 N	103° 28' 13.050 W
13,700.0	90.00	89.53	9,680.0	-545.9	3,615.8	484,372.77	808,015.72	32° 19' 43.172 N	103° 28' 11.885 W
13,800.0	90.00	89.53	9,680.0	-545.0	3,715.8	484,373.58	808,115.71	32° 19' 43.172 N	103° 28' 10.720 W
13,900.0	90.00	89.53	9,680.0	-544.2	3,815.8	484,374.40	808,215.71	32° 19' 43.172 N	103° 28' 9.554 W
14,000.0	90.00	89.53	9,680.0	-543.4	3,915.8	484,375.21	808,315.70	32° 19' 43.172 N	103° 28' 8.389 W
14,100.0	90.00	89.53	9,680.0	-542.6	4,015.8	484,376.03	808,415.70	32° 19' 43.172 N	103° 28' 7.223 W
14,200.0	90.00	89.53	9,680.0	-541.8	4,115.8	484,376.85	808,515.69	32° 19' 43.172 N	103° 28' 6.058 W
14,300.0	90.00	89.53	9,680.0	-541.0	4,215.8	484,377.66	808,615.69	32° 19' 43.172 N	103° 28' 4.893 W
14,400.0	90.00	89.53	9,680.0	-540.1	4,315.8	484,378.48	808,715.69	32° 19' 43.172 N	103° 28' 3.727 W
14,500.0	90.00	89.53	9,680.0	-539.3	4,415.8	484,379.30	808,815.68	32° 19' 43.173 N	103° 28' 2.562 W
14,600.0	90.00	89.53	9,680.0	-538.5	4,515.8	484,380.11	808,915.68	32° 19' 43.173 N	103° 28' 1.396 W
14,700.0	90.00	89.53	9,680.0	-537.7	4,615.7	484,380.93	809,015.67	32° 19' 43.173 N	103° 28' 0.231 W
14,800.0	90.00	89.53	9,680.0	-536.9	4,715.7	484,381.75	809,115.67	32° 19' 43.173 N	103° 27' 59.066 W
14,900.0	90.00	89.53	9,680.0	-536.1	4,815.7	484,382.56	809,215.66	32° 19' 43.173 N	103° 27' 57.900 W
15,000.0	90.00	89.53	9,680.0	-535.2	4,915.7	484,383.38	809,315.66	32° 19' 43.173 N	103° 27' 56.735 W
15,100.0	90.00	89.53	9,680.0	-534.4	5,015.7	484,384.20	809,415.65	32° 19' 43.173 N	103° 27' 55.569 W
15,200.0	90.00	89.53	9,680.0	-533.6	5,115.7	484,385.01	809,515.65	32° 19' 43.173 N	103° 27' 54.404 W
15,300.0	90.00	89.53	9,680.0	-532.8	5,215.7	484,385.83	809,615.65	32° 19' 43.173 N	103° 27' 53.239 W
15,400.0	90.00	89.53	9,680.0	-532.0	5,315.7	484,386.65	809,715.64	32° 19' 43.173 N	103° 27' 52.073 W
15,500.0	90.00	89.53	9,680.0	-531.2	5,415.7	484,387.46	809,815.64	32° 19' 43.173 N	103° 27' 50.908 W
15,600.0	90.00	89.53	9,680.0	-530.3	5,515.7	484,388.28	809,915.63	32° 19' 43.173 N	103° 27' 49.742 W
15,700.0	90.00	89.53	9,680.0	-529.5	5,615.7	484,389.09	810,015.63	32° 19' 43.173 N	103° 27' 48.577 W
15,800.0	90.00	89.53	9,680.0	-528.7	5,715.7	484,389.91	810,115.62	32° 19' 43.173 N	103° 27' 47.412 W

Microsoft

Planning Report - Geographic

Database:	EDM5000_OLD	**Local Co-ordinate Reference:**	Well Bobwhite 22304 4-3 Fed Com #4H
Company:	BTA Oil Producers, LLC	**TVD Reference:**	GL @ 3420.0usft
Project:	Lea County, NM (NAD 83)	**MD Reference:**	GL @ 3420.0usft
Site:	Bobwhite 22304 4-3 Fed Com	**North Reference:**	Grid
Well:	Bobwhite 22304 4-3 Fed Com #4H	**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)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
15,900.0	90.00	89.53	9,680.0	-527.9	5,815.7	484,390.73	810,215.62	32° 19' 43.173 N	103° 27' 46.246 W
16,000.0	90.00	89.53	9,680.0	-527.1	5,915.7	484,391.54	810,315.61	32° 19' 43.173 N	103° 27' 45.081 W
16,100.0	90.00	89.53	9,680.0	-526.3	6,015.7	484,392.36	810,415.61	32° 19' 43.173 N	103° 27' 43.915 W
16,200.0	90.00	89.53	9,680.0	-525.4	6,115.7	484,393.18	810,515.61	32° 19' 43.174 N	103° 27' 42.750 W
16,300.0	90.00	89.53	9,680.0	-524.6	6,215.7	484,393.99	810,615.60	32° 19' 43.174 N	103° 27' 41.585 W
16,400.0	90.00	89.53	9,680.0	-523.8	6,315.7	484,394.81	810,715.60	32° 19' 43.174 N	103° 27' 40.419 W
16,500.0	90.00	89.53	9,680.0	-523.0	6,415.7	484,395.63	810,815.59	32° 19' 43.174 N	103° 27' 39.254 W
16,600.0	90.00	89.53	9,680.0	-522.2	6,515.7	484,396.44	810,915.59	32° 19' 43.174 N	103° 27' 38.088 W
16,700.0	90.00	89.53	9,680.0	-521.4	6,615.7	484,397.26	811,015.58	32° 19' 43.174 N	103° 27' 36.923 W
16,800.0	90.00	89.53	9,680.0	-520.5	6,715.7	484,398.08	811,115.58	32° 19' 43.174 N	103° 27' 35.758 W
16,900.0	90.00	89.53	9,680.0	-519.7	6,815.7	484,398.89	811,215.57	32° 19' 43.174 N	103° 27' 34.592 W
17,000.0	90.00	89.53	9,680.0	-518.9	6,915.7	484,399.71	811,315.57	32° 19' 43.174 N	103° 27' 33.427 W
17,100.0	90.00	89.53	9,680.0	-518.1	7,015.7	484,400.52	811,415.56	32° 19' 43.174 N	103° 27' 32.261 W
17,200.0	90.00	89.53	9,680.0	-517.3	7,115.7	484,401.34	811,515.56	32° 19' 43.174 N	103° 27' 31.096 W
17,300.0	90.00	89.53	9,680.0	-516.5	7,215.7	484,402.16	811,615.56	32° 19' 43.174 N	103° 27' 29.931 W
17,400.0	90.00	89.53	9,680.0	-515.6	7,315.7	484,402.97	811,715.55	32° 19' 43.174 N	103° 27' 28.765 W
17,500.0	90.00	89.53	9,680.0	-514.8	7,415.7	484,403.79	811,815.55	32° 19' 43.174 N	103° 27' 27.600 W
17,600.0	90.00	89.53	9,680.0	-514.0	7,515.7	484,404.61	811,915.54	32° 19' 43.174 N	103° 27' 26.434 W
17,700.0	90.00	89.53	9,680.0	-513.2	7,615.6	484,405.42	812,015.54	32° 19' 43.174 N	103° 27' 25.269 W
17,800.0	90.00	89.53	9,680.0	-512.4	7,715.6	484,406.24	812,115.53	32° 19' 43.174 N	103° 27' 24.104 W
17,900.0	90.00	89.53	9,680.0	-511.6	7,815.6	484,407.06	812,215.53	32° 19' 43.174 N	103° 27' 22.938 W
18,000.0	90.00	89.53	9,680.0	-510.7	7,915.6	484,407.87	812,315.52	32° 19' 43.174 N	103° 27' 21.773 W
18,100.0	90.00	89.53	9,680.0	-509.9	8,015.6	484,408.69	812,415.52	32° 19' 43.174 N	103° 27' 20.607 W
18,200.0	90.00	89.53	9,680.0	-509.1	8,115.6	484,409.51	812,515.52	32° 19' 43.174 N	103° 27' 19.442 W
18,300.0	90.00	89.53	9,680.0	-508.3	8,215.6	484,410.32	812,615.51	32° 19' 43.173 N	103° 27' 18.277 W
18,400.0	90.00	89.53	9,680.0	-507.5	8,315.6	484,411.14	812,715.51	32° 19' 43.173 N	103° 27' 17.111 W
18,500.0	90.00	89.53	9,680.0	-506.7	8,415.6	484,411.95	812,815.50	32° 19' 43.173 N	103° 27' 15.946 W
18,600.0	90.00	89.53	9,680.0	-505.8	8,515.6	484,412.77	812,915.50	32° 19' 43.173 N	103° 27' 14.780 W
18,700.0	90.00	89.53	9,680.0	-505.0	8,615.6	484,413.59	813,015.49	32° 19' 43.173 N	103° 27' 13.615 W
18,800.0	90.00	89.53	9,680.0	-504.2	8,715.6	484,414.40	813,115.49	32° 19' 43.173 N	103° 27' 12.450 W
18,900.0	90.00	89.53	9,680.0	-503.4	8,815.6	484,415.22	813,215.48	32° 19' 43.173 N	103° 27' 11.284 W
19,000.0	90.00	89.53	9,680.0	-502.6	8,915.6	484,416.04	813,315.48	32° 19' 43.173 N	103° 27' 10.119 W
19,100.0	90.00	89.53	9,680.0	-501.8	9,015.6	484,416.85	813,415.47	32° 19' 43.173 N	103° 27' 8.953 W
19,200.0	90.00	89.53	9,680.0	-500.9	9,115.6	484,417.67	813,515.47	32° 19' 43.173 N	103° 27' 7.788 W
19,300.0	90.00	89.53	9,680.0	-500.1	9,215.6	484,418.49	813,615.47	32° 19' 43.173 N	103° 27' 6.623 W
19,400.0	90.00	89.53	9,680.0	-499.3	9,315.6	484,419.30	813,715.46	32° 19' 43.173 N	103° 27' 5.457 W
19,500.0	90.00	89.53	9,680.0	-498.5	9,415.6	484,420.12	813,815.46	32° 19' 43.173 N	103° 27' 4.292 W
19,600.0	90.00	89.53	9,680.0	-497.7	9,515.6	484,420.94	813,915.45	32° 19' 43.173 N	103° 27' 3.126 W
19,700.0	90.00	89.53	9,680.0	-496.9	9,615.6	484,421.75	814,015.45	32° 19' 43.173 N	103° 27' 1.961 W
19,800.0	90.00	89.53	9,680.0	-496.0	9,715.6	484,422.57	814,115.44	32° 19' 43.173 N	103° 27' 0.796 W
19,900.0	90.00	89.53	9,680.0	-495.2	9,815.6	484,423.39	814,215.44	32° 19' 43.173 N	103° 26' 59.630 W
19,997.5	90.00	89.53	9,680.0	-494.4	9,913.0	484,424.18	814,312.90	32° 19' 43.172 N	103° 26' 58.494 W

Microsoft

Planning Report - Geographic

Database:	EDM5000_OLD	**Local Co-ordinate Reference:**	Well Bobwhite 22304 4-3 Fed Com #4H
Company:	BTA Oil Producers, LLC	**TVD Reference:**	GL @ 3420.0usft
Project:	Lea County, NM (NAD 83)	**MD Reference:**	GL @ 3420.0usft
Site:	Bobwhite 22304 4-3 Fed Com	**North Reference:**	Grid
Well:	Bobwhite 22304 4-3 Fed Com #4H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Design Targets

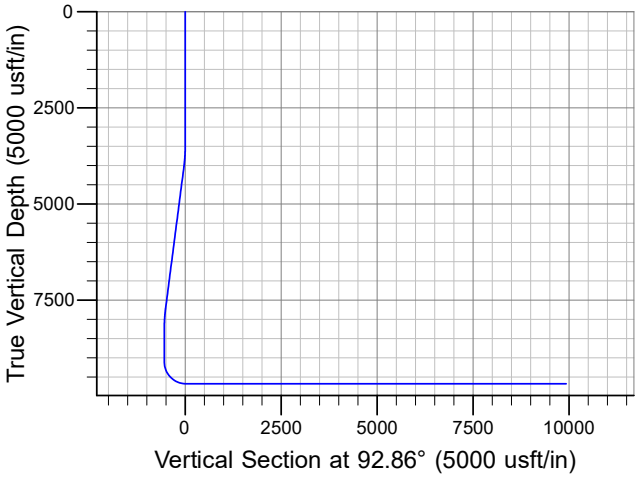
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
KOP Bobwhite #4H - plan hits target center - Point	0.00	0.00	8,500.0	-580.1	-574.8	484,338.55	803,825.23	32° 19' 43.165 N	103° 29' 0.723 W
BHL bobwhite #4h - plan hits target center - Point	0.00	0.00	9,680.0	-494.4	9,913.0	484,424.18	814,312.90	32° 19' 43.172 N	103° 26' 58.494 W

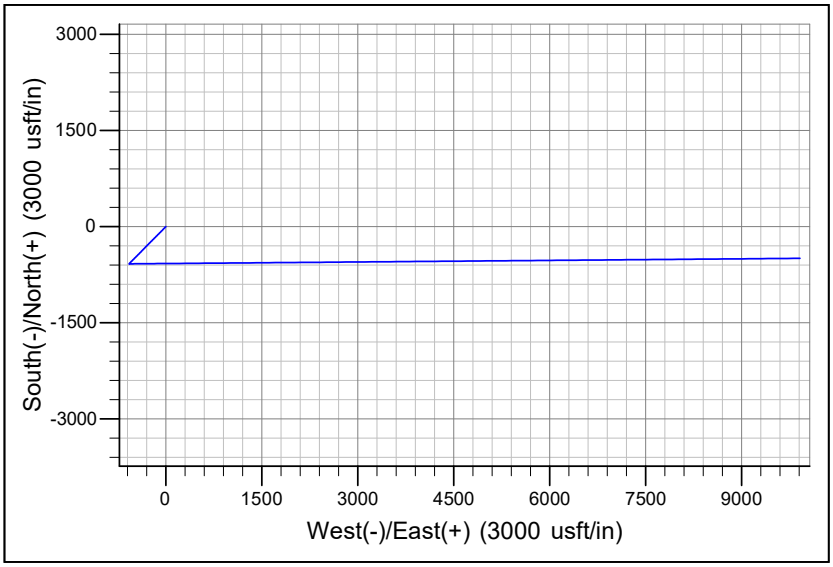
BTA Oil Producers, LLC

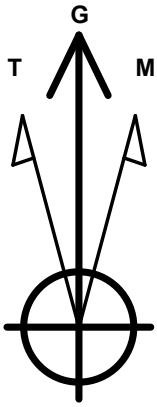
WELL DETAILS: Bobwhite 22304 4-3 Fed Com #4H

3420.0 Ground Level

+N/-S	+E/-W	Northing	Easting	Latittude	Longitude
0.0	0.0	484918.61	804399.98	32° 19' 48.859 N	103° 28' 53.972 W







Azimuths to Grid North
True North: -0.46°
Magnetic North: 7.26°

Magnetic Field
Strength: 48893.5nT
Dip Angle: 60.36°
Date: 12/31/2009
Model: IGRF200510

PROJECT DETAILS: Lea County, NM (NAD 83)

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

System Datum: Ground Level

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DIeg	TFace	VSect	Target	Annotation
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0		
2	3500.0	0.00	0.00	3500.0	0.0	0.0	0.00	0.00	0.0		
3	4050.0	11.00	224.74	4046.6	-37.4	-37.0	2.00	224.74	-35.1		
4	7777.9	11.00	224.74	7706.1	-542.7	-537.7	0.00	0.00	-510.0		
5	8327.9	0.00	0.00	8252.7	-580.1	-574.8	2.00	180.00	-545.1		
6	8575.2	0.00	0.00	8500.0	-580.1	-574.8	0.00	0.00	-545.1	KOP Bobwhite #4H	
7	9182.3	0.00	0.00	9107.0	-580.1	-574.8	0.00	0.00	-545.1		
8	10082.3	90.00	89.53	9680.0	-575.4	-1.8	10.00	89.53	26.8		
9	19997.5	90.00	89.53	9680.0	-494.4	9913.0	0.00	0.00	9925.4	BHL bobwhite #4h	

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.

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.

PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	BTA
LEASE NO.:	**NMNM19142**
LOCATION:	Sec. 4, T.23 S, R 34 E
COUNTY:	Lea County, New Mexico
WELL NAME & NO.:	BobWhite 22304 4-3 Fed Com 4H
SURFACE HOLE FOOTAGE:	1400'/S & 600'/W
BOTTOM HOLE FOOTAGE:	825'/S & 50'/E

COA

H_2S	○ No		◉ Yes	
Potash / WIPP	◉ None	○ Secretary	○ R-111-Q	☐ Open Annulus
	Choose an option (including blank option.)			☐ WIPP
Cave / Karst	◉ Low	○ Medium	○ High	○ Critical
Wellhead	○ Conventional	◉ Multibowl	○ Both	○ Diverter
Cementing	☐ Primary Squeeze	☐ Cont. Squeeze	☐ EchoMeter	☐ DV Tool
Special Req	☑ Capitan Reef	☐ Water Disposal	☑ COM	☐ Unit
Waste Prev.	○ Self-Certification	○ Waste Man. Plan	◉ APD Submitted prior to 06/10/2024	
Additional Language	☑ Flex Hose	☐ Casing Clearance	☐ Pilot Hole	☑ Break Testing
	☐ Four-String	☐ Offline Cementing	☑ Fluid-Filled	

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated 500 feet prior to drilling into the **Delaware Group** formation. As a result, the Hydrogen Sulfide area must meet all requirements from 43 CFR 3176, 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 **1630** feet (a minimum of 25 feet (Lea County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.

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

 Approval Date: 09/06/2024

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.

Intermediate casing must be kept fluid filled to meet BLM minimum collapse requirement.

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.

- In Capitan Reef 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.

- **Special Capitan Reef requirements.** If lost circulation (50% or greater) occurs below the Base of the Salt, the operator shall do the following:
  (Use this for 3 string wells in the Capitan Reef, if 4 string well ensure FW based mud used across the Capitan interval)
  - Switch to freshwater mud to protect the Capitan Reef and use freshwater mud until setting the intermediate casing. The appropriate BLM office is to be notified for a PET to witness the switch to fresh water.
  - Daily drilling reports from the Base of the Salt to the setting of the intermediate casing are to be submitted to the BLM CFO engineering staff via e-mail by 0800 hours each morning. Any lost circulation encountered is to be recorded on these drilling reports. The daily drilling report should show mud volume per shift/tour. Failure to submit these reports will result in an Incidence of Non-Compliance being issued for failure to comply with the Conditions of Approval. If not already planned, the operator shall run a caliper survey for the intermediate well bore and submit to the appropriate BLM office.

3. The minimum required fill of cement behind the **5-1/2** inch production casing is:
   - Cement should tie-back at least **50 feet (4240)** on top of Capitan Reef top. Operator shall provide method of verification.

C. PRESSURE CONTROL

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

2. Operator has proposed a multi-bowl wellhead assembly. 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.

 Approval Date: 09/06/2024

a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
c. Manufacturer representative shall install the test plug for the initial BOP test.
d. If the cement does not circulate and one-inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
e. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172 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 43 CFR 3171 and 3172.
- 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.

BOPE Break Testing Variance

- BOPE Break Testing is ONLY permitted for intervals utilizing a 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).
- The BLM is to be contacted (575-689-5981 Lea 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 3172**.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

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)

Contact Lea County Petroleum Engineering Inspection Staff:
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.
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.

Approved by Zota Stevens on 6/12/2024
575-234-5998 / zstevens@blm.gov

BTA OIL PRODUCERS LLC

HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

1. HYDROGEN SULFIDE TRAINING

All personnel, whether regularly assigned, contracted, or employed on an unscheduled basis, will receive training from a qualified instructor in the following areas prior to commencing drilling operations on this well:

a. The hazards and characteristics of hydrogen sulfide (H_2S).
b. The proper use and maintenance of personal protective equipment and life support systems.
c. The proper use of H_2S detectors, alarms, warning systems, briefing areas, evacuation procedures, and prevailing winds.
d. The proper techniques for first aid and rescue procedures.

In addition, supervisory personnel will be trained in the following areas:

a. The effects of H2S on metal components. If high tensile tubulars are to be used, personnel will be trained in their special maintenance requirements.
b. Corrective action and shut-in procedures when drilling or reworking a well and blowout prevention and well control procedures.
c. The contents and requirements of the H_2S Drilling Operations Plan and the Public Protection Plan.

There will be an initial training session just prior to encountering a known or probable H2S zone (within 3 days or 500 feet) and weekly H2S and well control drills for all personnel in each crew. The initial training session shall include a review of the site specific H2S Drilling Operations Plan and the Public Protection Plan. This plan shall be available at the well site. All personnel will be required to carry documentation that they have received the proper training.

2. H_2S SAFETY EQUIPMENT AND SYSTEMS

Note: All H_2S safety equipment and systems will be installed, tested, and operational when drilling reaches a depth of 500 feet above, or three days prior to penetrating the first zone containing or reasonably expected to contain H2S. If H2S greater than 100 ppm is encountered in the gas stream we will shut in and install H2S equipment.

a. Well Control Equipment:
Flare line.
Choke manifold with remotely operated choke.
Blind rams and pipe rams to accommodate all pipe sizes with properly sized closing unit.
Auxiliary equipment to include: annular preventer, mud-gas separator, rotating head.
b. Protective equipment for essential personnel:
Mark II Surviveair 30-minute units located in the dog house and at briefing areas.
c. H2S detection and monitoring equipment:

2 - portable H2S monitor positioned on location for best coverage and response. These units have warning lights and audible sirens when H2S levels of 20 ppm are reached.

d. Visual warning systems:
Caution/Danger signs shall be posted on roads providing direct access to location. Signs will be painted a high visibility yellow with black lettering of sufficient size to be readable at a reasonable distance from the immediate location. Bilingual signs will be used, when appropriate. See example attached.

e. Mud Program:
The mud program has been designed to minimize the volume of H2S circulated to the surface.

f. Metallurgy:
All drill strings, casings, tubing, wellhead, blowout preventers, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H2S service.

g. Communication:
Company vehicles equipped with cellular telephone.

W A R N I N G

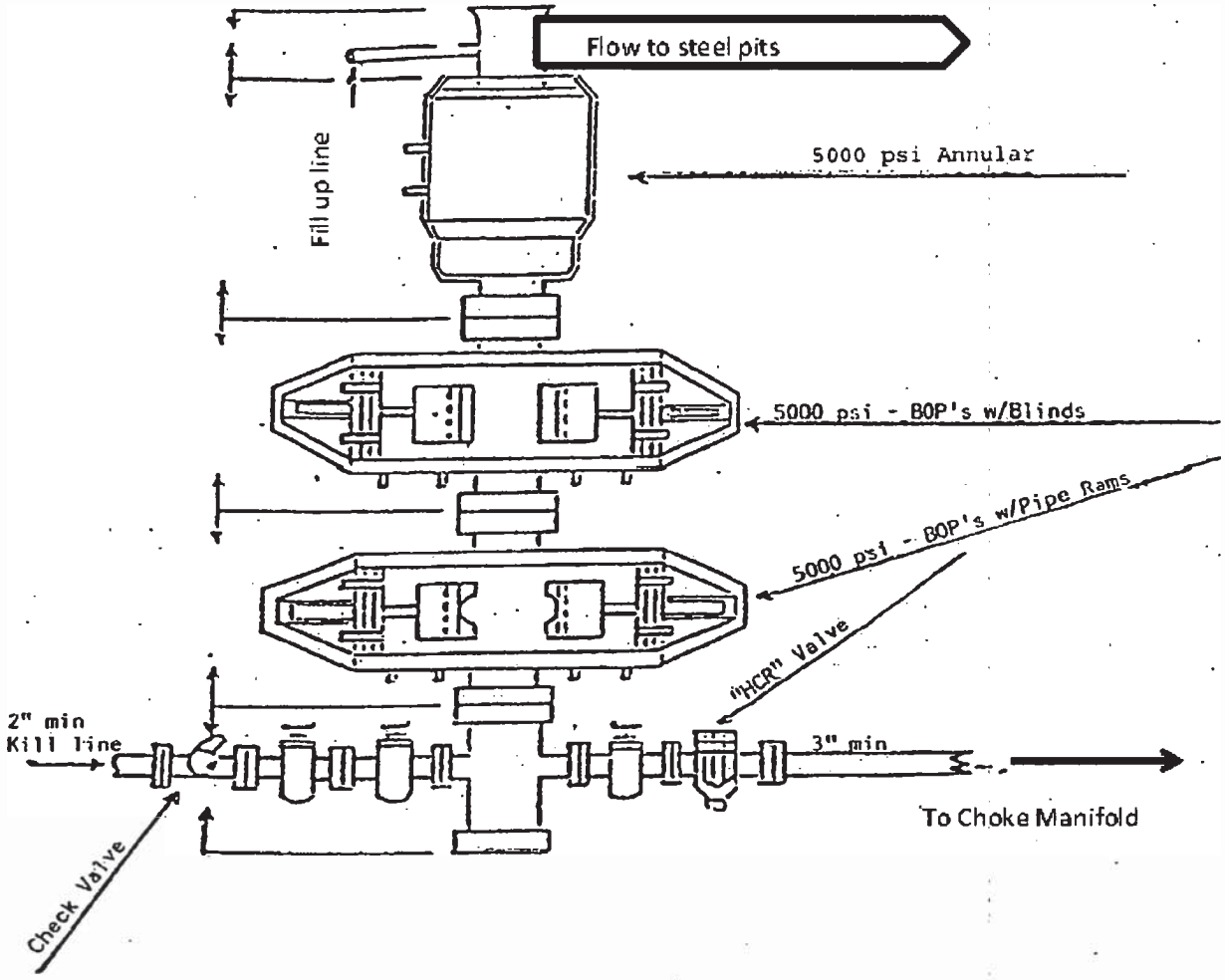
YOU ARE ENTERING AN H_2S AREA
AUTHORIZED PERSONNEL ONLY

1. ***BEARDS OR CONTACT LENSES NOT ALLOWED***
2. ***HARD HATS REQUIRED***
3. ***SMOKING IN DESIGNATED AREAS ONLY***
4. ***BE WIND CONSCIOUS AT ALL TIMES***
5. ***CK WITH BTA OIL PRODUCERS LLC FOREMAN AT MAIN OFFICE***

BTA OIL PRODUCERS LLC

1-432-682-3753

13-5/8" 5,000 PSI BOP



BTA

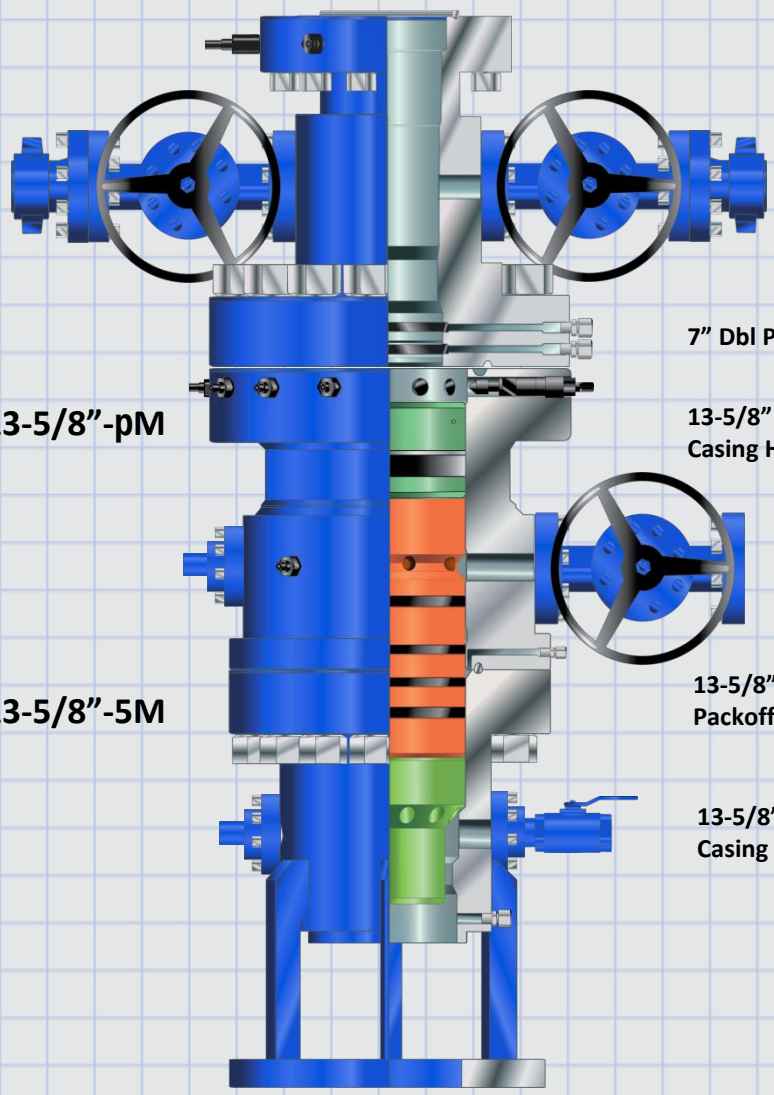
Multi-Bowl System

13-3/8” X 9-5/8” X 5-1/2”

Tubing Head-TCM-PP
13-5/8”- pM X 7-1/16”- pM
w/(2) 1-13/16”- pM Gate Valves

Casing Spool- MBS
13-5/8”-5M X 13-5/8”-pM
w/(2) 1-13/16” pM SSO

Casing Head- MBS
13-5/8”-5M X 13-3/8” SOW
w/36” Base Plate



SYENERGY
WELLHEAD & FRAC

email: sales@syenergypg.com

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 381839

CONDITIONS

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID: 260297
	Action Number: 381839
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
pkautz	Will require a File As Drilled C-102 and a Directional Survey with the C-104	10/1/2024
pkautz	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	10/1/2024
pkautz	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	10/1/2024
pkautz	Cement is required to circulate on both surface and intermediate1 strings of casing	10/1/2024
pkautz	If cement does not circulate on any string, a CBL is required for that string of casing	10/1/2024