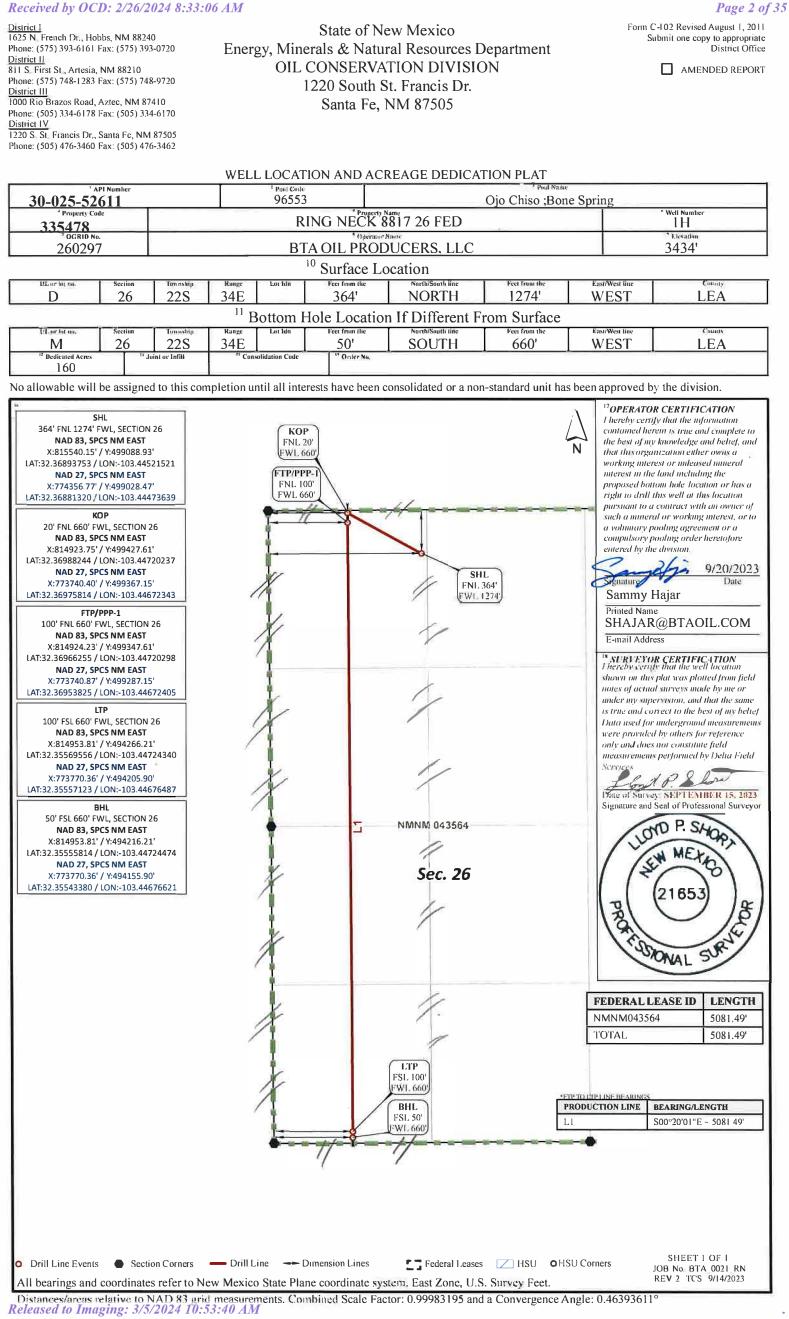
Form 3160-3 (June 2015)		FORM APPROVED OMB No. 1004-0137 Expires: January 31, 2018				
UNITED STATES DEPARTMENT OF THE IN		5. Lease Serial No.				
BUREAU OF LAND MANA		5. Lease Berlai NO.				
APPLICATION FOR PERMIT TO DI		6. If Indian, Allotee or Tribe Name				
1a. Type of work:   DRILL   RE	EENTER	7. If Unit or CA Agreement, Name and No.				
1b. Type of Well: Oil Well Gas Well Ot	her					
1c. Type of Completion: Hydraulic Fracturing Sin	ngle Zone Multiple Zone	8. Lease Name and Well No.				
2. Name of Operator		9. API Well No. <b>30-025-52611</b>				
3a. Address	3b. Phone No. (include area code)	10, Field and Pool, or Exploratory				
4. Location of Well (Report location clearly and in accordance w	ith any State requirements.*)	11. Sec., T. R. M. or Blk. and Survey or Area				
At surface						
At proposed prod. zone						
14. Distance in miles and direction from nearest town or post offic	ce*	12. County or Parish 13. State				
<ul> <li>15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)</li> </ul>	16. No of acres in lease 17. Space	ing 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 (as applicable)	Onshore Oil and Gas Order No. 1, and the I	Hydraulic Fracturing rule per 43 CFR 3162.3-3				
1. Well plat certified by a registered surveyor.		ns unless covered by an existing bond on file (se				
<ol> <li>A Drilling Plan.</li> <li>A Surface Use Plan (if the location is on National Forest System</li> </ol>	Item 20 above). n Lands, the 5. Operator certification.					
SUPO must be filed with the appropriate Forest Service Office)		rmation and/or plans as may be requested by the				
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 applicant to conduct operations thereon. Conditions of approval, if any, are attached.	t holds legal or equitable title to those rights	in the subject lease which would entitle the				
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, m						
of the United States any false, fictitious or fraudulent statements o	n representations as to any matter within its	Jurisaicuon.				



\*(Instructions on page 2)

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(Continued on page 2)



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	E	State nergy, Minerals ar	e of New Mex nd Natural Res		ent		Subn Via I	nit Electronically E-permitting
		1220 S	nservation Di outh St. Franc a Fe, NM 875	cis Dr.				
		ATURAL GA						
This Natural Gas Manage	ement Plan m	<u>Section</u>	h each Applicat <u>1 – Plan De</u> <u>Sective May 25,</u>	escription	Drill (A	.PD) for a :	new oi	recompleted well.
I. Operator:BTA O	il Producers	s, LLC	_OGRID: _2	.60297		Date:	9 /	20/2023
II. Type: 🛛 Original 🗆	Amendment	due to □ 19.15.27.9	9.D(6)(a) NMAO	C 🗆 19.15.27.9.D(	(6)(b) N	NMAC 🗆 (	Other.	
If Other, please describe:								
<b>III. Well(s):</b> Provide the be recompleted from a sin					wells p	roposed to	be dri	lled or proposed to
Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D		icipated MCF/D	P	Anticipated roduced Water BBL/D
Ring Neck 8817 26 FED 1H		D-26-22S-34E	364 FNL, 1274 FWL	+/- 800	+/- 1	2000	+/-	1200
IV. Central Delivery Po	int Name:	RING NECK CTB		I		[See 1	9.15.2	7.9(D)(1) NMAC]
V. Anticipated Schedule proposed to be recomplet					vell or s	set of wells	s propo	sed to be drilled or
Well Name	API	Spud Date	TD Reached Date	Completion Commencement		Initial F Back D		First Production Date
Ring Neck 8817 26 FED 1H		5/1/2024	5/21/2024	6/4/2024		6/25/202	24	7/25/2024
VI. Separation Equipmo VII. Operational Practi Subsection A through F c	ces: 🗵 Attac	h a complete descri	-	-				
VIII. Best Management during active and planned			e description of	Operator's best n	nanager	ment pract	tices to	o minimize venting

## 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.

Dependence of 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.**  $\Box$  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  $\Box$  will  $\Box$  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  $\Box$  does  $\Box$  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:**  $\Box$  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.

## <u>Section 3 - Certifications</u> <u>Effective May 25, 2021</u>

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

 $\boxtimes$  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

 $\Box$  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.**  $\Box$  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.**  $\Box$  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 Samy 2 forjon
Printed Name: Sammy Hajar
Title: Regulatory Analyst
E-mail Address: SHAJAR@BTAOIL.COM
Date: 9/7/2023
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.



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

APD ID: 10400094616

Operator Name: BTA OIL PRODUCERS LLC

Well Name: RING NECK 8817 26 FED

Well Type: OIL WELL

Well Number: 1H Well Work Type: Drill

Submission Date: 09/21/2023

Highlighted data reflects the most recent changes

02/26/2024

Drilling Plan Data Report

Show Final Text

# **Section 1 - Geologic Formations**

Formation			True Vertical	Measured		Mineral Resources	Producing
ID	Formation Name	Elevation		Depth	Lithologies		Formatio
12984252	QUATERNARY	3434	0	0	ALLUVIUM	NONE	N
12984253	RUSTLER	1695	1739	1739	ANHYDRITE	NONE	N
12984254	TOP SALT	1215	2219	2219	SALT	NONE	N
12984255	BASE OF SALT	135	3299	3299	SALT	NONE	N
12984250	DELAWARE	-2255	5689	5689	LIMESTONE	NONE	N
12984256	BELL CANYON	-2355	5789	5789	SANDSTONE	NATURAL GAS, OIL	N
12984265	CHERRY CANYON	-2775	6209	6209	SANDSTONE	NATURAL GAS, OIL	N
12984258	BRUSHY CANYON	-3725	7159	7159	SANDSTONE	NATURAL GAS, OIL	N
12984259	BONE SPRING LIME	-5105	8539	8539	LIMESTONE	NATURAL GAS, OIL	N
12984260	BONE SPRING 1ST	-6165	9599	9599	SANDSTONE	NATURAL GAS, OIL	N
12984245	BONE SPRING 2ND	-6665	10099	10099	SANDSTONE	NATURAL GAS, OIL	N
12984267	BONE SPRING 3RD	-7515	10949	10949	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

Well Name: RING NECK 8817 26 FED

Well Number: 1H

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

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	1910	0	1910	3434	1524	1910	J-55	54.5	ST&C	1.4	3.3	DRY	4.9	DRY	8.2
2	INTERMED IATE	12.2 5	9.625	NEW	API	N	0	5854	0	5820	3419	-2386	5854	J-55	36	LT&C	1.2	1.2	DRY	2.1	DRY	2.7
3	PRODUCTI ON	8.75	5.5	NEW	API	N	0	16278	0	11264	3419	-7830	16278	P- 110	17	BUTT	1.4	1.9	DRY	2.1	DRY	2

#### **Casing Attachments**

Operator Name: BTA OIL PRODUCERS LLC

Well Name: RING NECK 8817 26 FED

Well Number: 1H

### **Casing Attachments**

Casing ID:     1     String     SURFACE       Inspection Document:
Spec Document:
Tapered String Spec:
Casing Design Assumptions and Worksheet(s):
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):
Ring_Neck_1H_Casing_Assumption_20231106121936.pdf

Section 4 - Cement

Well Name: RING NECK 8817 26 FED

# Operator Name: BTA OIL PRODUCERS LLC

### Well Number: 1H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	1575	1265	1.73	13.5	2188. 45	100	Class C	2% CaCl2
SURFACE	Tail		1575	1910	340	1.35	14.8	459	100	Class C	2% CaCl2
INTERMEDIATE	Lead	4097	0	3540	1045	2.46	12.8	2570. 7	100	Class C	0.5% CaCl2
INTERMEDIATE	Tail		3540	4097	200	1.34	14.8	268	25	Class C	1% CaCl2
INTERMEDIATE	Lead		4097	5295	1560	2.46	12.8	3837. 6	100	Class C	0.5% CaCl2
INTERMEDIATE	Tail		5295	5854	200	1.34	14.8	268	25	Class C	1% CaCl2
PRODUCTION	Lead		4854	1073 5	580	3.9	10.5	2262	60	25% Poz 75% Class C	0.4% Fluid Loss
PRODUCTION	Tail		1073 5	1627 8	1400	1.25	14.4	1750	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 (Ibs/gal)	Max Weight (Ibs/gal)	Density (Ibs/cu ft)	Gel Strength (lbs/100 sqft)	Н	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	1910	OTHER : FW SPUD	8.3	8.4							

## Operator Name: BTA OIL PRODUCERS LLC

# Well Name: RING NECK 8817 26 FED

#### Well Number: 1H

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (Ibs/cu ft)	Gel Strength (lbs/100 sqft)	Hd	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
1910	5820	OTHER : Brine	10	10.2							
5820	1126 4	OTHER : CUT BRINE	8.7	9.3							

# 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: 5506

Anticipated Surface Pressure: 3027

Anticipated Bottom Hole Temperature(F): 171

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 Operator Name: BTA OIL PRODUCERS LLC

Well Name: RING NECK 8817 26 FED

Well Number: 1H

# **Section 8 - Other Information**

### Proposed horizontal/directional/multi-lateral plan submission:

NGMP\_\_\_Ring\_Neck\_1H\_20230920131849.pdf Ring\_Neck\_1H\_Wall\_Plot\_20230920131902.pdf Ring\_Neck\_1H\_directional\_plan\_20230920131902.pdf

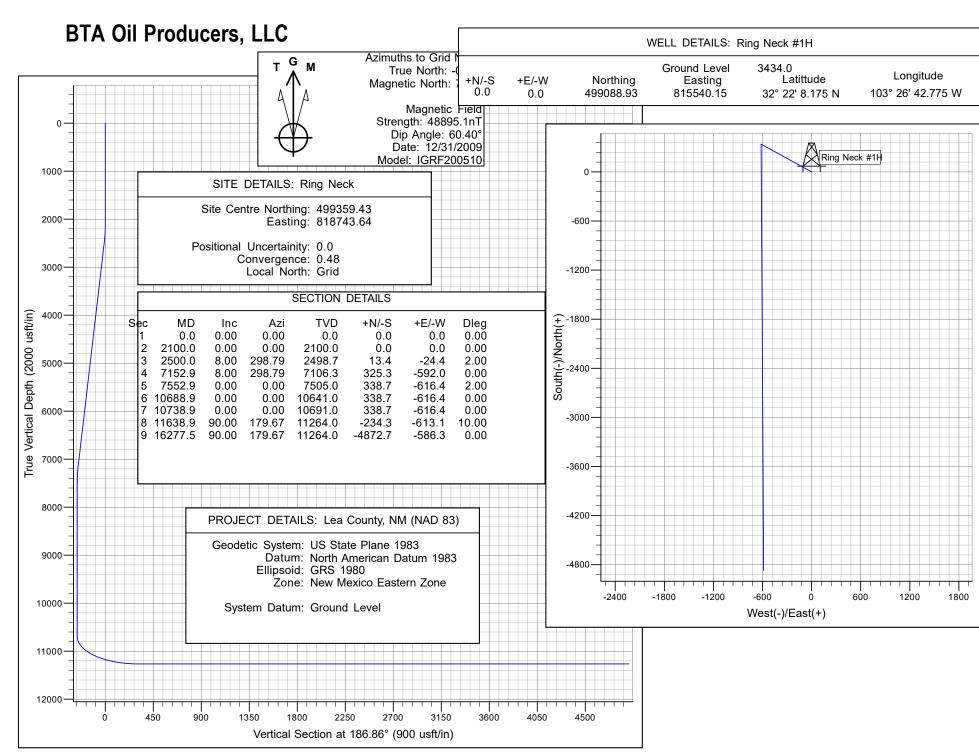
### Other proposed operations facets description:

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



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# **BTA Oil Producers, LLC**

Lea County, NM (NAD 83) Ring Neck Ring Neck #1H

Wellbore #1

Plan: Design #1

# **Standard Planning Report - Geographic**

20 September, 2023





### **Microsoft** Planning Report - Geographic



Database: Company: Project: Site: Well: Wellbore: Design:	EDM16 BTA Oil Produce Lea County, NM Ring Neck Ring Neck #1H Wellbore #1 Design #1			TVD Referen MD Reference North Reference	e:	Well Ring Neck # GL @ 3434.0usf GL @ 3434.0usf Grid Minimum Curvat	t t
Project	Lea County, NM	(NAD 83), L	ea County, NM				
Map System: Geo Datum: Map Zone:	US State Plane 19 North American Da New Mexico Easte	83 atum 1983		System Datur	1:	Ground Level Using geodetic sca	ale factor
Site	Ring Neck						
Site Position: From: Position Uncertainty:	Map	0.0 usft	Northing: Easting: Slot Radius:	818,743	9.43 usft Latitud 3.64 usft Longitu 3/16 "		32° 22' 10.587 N 103° 26' 5.399 V
Well	Ring Neck #1H						
Well Position	+N/-S +E/-W	0.0 usft 0.0 usft	Northing: Easting:		499,088.93 usft 815,540.15 usft	Latitude: Longitude:	32° 22' 8.175 103° 26' 42.775 \
Position Uncertainty Grid Convergence:		0.0 usft 0.48 °	Wellhead Elev	vation:	usft	Ground Level:	3,434.0 us
Wellbore	Wellbore #1						
Magnetics	Model Name		Sample Date	Declinatio (°)	n	Dip Angle (°)	Field Strength (nT)
	IGRF200	)510	12/31/2009		7.70	60.40	48,895.12194127
Design	Design #1						
Audit Notes: Version:			Phase:	PROTOTYPE	Tie On Dep	oth:	0.0
Vertical Section:		(1	rom (TVD) usft) 0.0	<b>+N/-S</b> (usft) 0.0	+E/-W (usft) 0.0		ection (°) 6.86
Plan Survey Tool Pro	ogram D	ate 9/20/2	2023				
Depth From (usft)	Depth To (usft) Su	rvey (Wellb	ore)	Tool Name	Rema	ırks	
1 0.0	16,277.5 De	sign #1 (We	llbore #1)				



### **Microsoft** Planning Report - Geographic



Database: Company:	EDM16 BTA Oil Producers, LLC	Local Co-ordinate Reference: TVD Reference:	Well Ring Neck #1H GL @ 3434.0usft
Project:	Lea County, NM (NAD 83)	MD Reference:	GL @ 3434.0usft
Site: Well:	Ring Neck Ring Neck #1H	North Reference: Survey Calculation Method:	Grid 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	
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,500.0	8.00	298.79	2,498.7	13.4	-24.4	2.00	2.00	0.00	298.79	
7,152.9	8.00	298.79	7,106.3	325.3	-592.0	0.00	0.00	0.00	0.00	
7,552.9	0.00	0.00	7,505.0	338.7	-616.4	2.00	-2.00	0.00	180.00	
10,688.9	0.00	0.00	10,641.0	338.7	-616.4	0.00	0.00	0.00	0.00	Ring Neck #1H KOF
10,738.9	0.00	0.00	10,691.0	338.7	-616.4	0.00	0.00	0.00	0.00	
11,638.9	90.00	179.67	11,264.0	-234.3	-613.1	10.00	10.00	0.00	179.67	
16,277.5	90.00	179.67	11,264.0	-4,872.7	-586.3	0.00	0.00	0.00	0.00	Ring Neck #1H BHL



### **Microsoft** Planning Report - Geographic



Database:	EDM16	Local Co-ordinate Reference:	Well Ring Neck #1H
Company:	BTA Oil Producers, LLC	TVD Reference:	GL @ 3434.0usft
Project:	Lea County, NM (NAD 83)	MD Reference:	GL @ 3434.0usft
Site:	Ring Neck	North Reference:	Grid
Well:	Ring Neck #1H	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	Longitudo
							. ,		Longitude
0.0		0.00	0.0	0.0	0.0	499,088.93	815,540.15	32° 22' 8.175 N	103° 26' 42.775 W
100.0		0.00	100.0	0.0	0.0	499,088.93	815,540.15	32° 22' 8.175 N	103° 26' 42.775 W
200.0		0.00	200.0	0.0	0.0	499,088.93	815,540.15	32° 22' 8.175 N	103° 26' 42.775 W
300.0		0.00	300.0	0.0	0.0	499,088.93	815,540.15	32° 22' 8.175 N	103° 26' 42.775 W
400.0 500.0		0.00 0.00	400.0 500.0	0.0 0.0	0.0	499,088.93 499,088.93	815,540.15	32° 22' 8.175 N	103° 26' 42.775 W
600.0		0.00	500.0 600.0	0.0	0.0 0.0	499,088.93	815,540.15 815,540.15	32° 22' 8.175 N 32° 22' 8.175 N	103° 26' 42.775 W 103° 26' 42.775 W
700.0		0.00	700.0	0.0	0.0	499,088.93	815,540.15	32° 22' 8.175 N	103° 26' 42.775 W
800.0	0.00	0.00	800.0	0.0	0.0	499,088.93	815,540.15	32° 22' 8.175 N	103° 26' 42.775 W
900.0		0.00	900.0	0.0	0.0	499,088.93	815,540.15	32° 22' 8.175 N	103° 26' 42.775 W
1,000.0	0.00	0.00	1,000.0	0.0	0.0	499,088.93	815,540.15	32° 22' 8.175 N	103° 26' 42.775 W
1,100.0		0.00	1,100.0	0.0	0.0	499,088.93	815,540.15	32° 22' 8.175 N	103° 26' 42.775 W
1,200.0		0.00	1,200.0	0.0	0.0	499,088.93	815,540.15	32° 22' 8.175 N	103° 26' 42.775 W
1,300.0		0.00	1,300.0	0.0	0.0	499,088.93	815,540.15	32° 22' 8.175 N	103° 26' 42.775 W
1,400.0	0.00	0.00	1,400.0	0.0	0.0	499,088.93	815,540.15	32° 22' 8.175 N	103° 26' 42.775 W
1,500.0		0.00	1,500.0	0.0	0.0	499,088.93	815,540.15	32° 22' 8.175 N	103° 26' 42.775 W
1,600.0		0.00	1,600.0	0.0	0.0	499,088.93	815,540.15	32° 22' 8.175 N	103° 26' 42.775 W
1,700.0		0.00	1,700.0	0.0	0.0	499,088.93	815,540.15	32° 22' 8.175 N	103° 26' 42.775 W
1,800.0		0.00	1,800.0	0.0	0.0	499,088.93	815,540.15	32° 22' 8.175 N	103° 26' 42.775 W
1,900.0		0.00	1,900.0	0.0	0.0	499,088.93	815,540.15	32° 22' 8.175 N	103° 26' 42.775 W
2,000.0		0.00	2,000.0	0.0	0.0	499,088.93	815,540.15	32° 22' 8.175 N	103° 26' 42.775 W
2,100.0		0.00	2,100.0	0.0	0.0	499,088.93	815,540.15	32° 22' 8.175 N	103° 26' 42.775 W
2,200.0	2.00	298.79	2,200.0	0.8	-1.5	499,089.77	815,538.62	32° 22' 8.184 N	103° 26' 42.792 W
2,300.0	4.00	298.79	2,299.8	3.4	-6.1	499,092.29	815,534.03	32° 22' 8.209 N	103° 26' 42.846 W
2,400.0	6.00	298.79	2,399.5	7.6	-13.8	499,096.49	815,526.39	32° 22' 8.251 N	103° 26' 42.934 W
2,500.0	8.00	298.79	2,498.7	13.4	-24.4	499,102.36	815,515.71	32° 22' 8.310 N	103° 26' 43.058 W
2,600.0	8.00	298.79	2,597.7	20.1	-36.6	499,109.06	815,503.52	32° 22' 8.377 N	103° 26' 43.200 W
2,700.0	8.00	298.79	2,696.8	26.8	-48.8	499,115.76	815,491.32	32° 22' 8.445 N	103° 26' 43.341 W
2,800.0	8.00	298.79	2,795.8	33.5	-61.0	499,122.46	815,479.12	32° 22' 8.512 N	103° 26' 43.483 W
2,900.0	8.00	298.79	2,894.8	40.2	-73.2	499,129.16	815,466.92	32° 22' 8.579 N	103° 26' 43.625 W
3,000.0	8.00	298.79	2,993.8	46.9	-85.4	499,135.87	815,454.73	32° 22' 8.646 N	103° 26' 43.766 W
3,100.0	8.00	298.79	3,092.9	53.6	-97.6	499,142.57	815,442.53	32° 22' 8.714 N	103° 26' 43.908 W
3,200.0		298.79	3,191.9	60.3	-109.8	499,149.27	815,430.33	32° 22' 8.781 N	103° 26' 44.049 W
3,300.0		298.79	3,290.9	67.0	-122.0	499,155.97	815,418.14	32° 22' 8.848 N	103° 26' 44.191 W
3,400.0		298.79	3,389.9	73.7	-134.2	499,162.67	815,405.94	32° 22' 8.916 N	103° 26' 44.332 W
3,500.0	8.00	298.79	3,489.0	80.4	-146.4	499,169.37	815,393.74	32° 22' 8.983 N	103° 26' 44.474 W
3,600.0		298.79	3,588.0	87.1	-158.6	499,176.08	815,381.54	32° 22' 9.050 N	103° 26' 44.615 W
3,700.0		298.79	3,687.0	93.8	-170.8	499,182.78	815,369.35	32° 22' 9.118 N	103° 26' 44.757 W
3,800.0	8.00	298.79	3,786.0	100.5	-183.0	499,189.48	815,357.15	32° 22' 9.185 N	103° 26' 44.899 W
3,900.0		298.79	3,885.1	107.3	-195.2	499,196.18	815,344.95	32° 22' 9.252 N	103° 26' 45.040 W
4,000.0	8.00	298.79	3,984.1	114.0	-207.4	499,202.88	815,332.75	32° 22' 9.320 N	103° 26' 45.182 W
4,100.0		298.79	4,083.1	120.7	-219.6	499,209.59	815,320.56	32° 22' 9.387 N	103° 26' 45.323 W
4,200.0		298.79	4,182.2	127.4	-231.8	499,216.29	815,308.36	32° 22' 9.454 N	103° 26' 45.465 W
4,300.0		298.79	4,281.2	134.1	-244.0	499,222.99	815,296.16	32° 22' 9.522 N	103° 26' 45.606 W
4,400.0		298.79	4,380.2	140.8	-256.2	499,229.69	815,283.96	32° 22' 9.589 N	103° 26' 45.748 W
4,500.0		298.79	4,479.2	147.5	-268.4	499,236.39	815,271.77	32° 22' 9.656 N	103° 26' 45.890 W
4,600.0		298.79	4,578.3	154.2	-280.6	499,243.09	815,259.57	32° 22' 9.723 N	103° 26' 46.031 W
4,700.0 4,800.0		298.79 298.79	4,677.3 4,776.3	160.9 167.6	-292.8 -305.0	499,249.80	815,247.37 815 235 17	32° 22' 9.791 N 32° 22' 9.858 N	103° 26' 46.173 W 103° 26' 46.314 W
4,800.0		298.79 298.79		167.6 174.3	-305.0 -317.2	499,256.50 499,263.20	815,235.17 815,222.98	32°22' 9.858 N 32° 22' 9.925 N	103 26 46.314 W 103° 26' 46.456 W
4,900.0		298.79	4,875.3 4,974.4	174.3	-317.2	499,263.20	815,222.98	32° 22' 9.925 N 32° 22' 9.993 N	103° 26' 46.456 W
5,100.0		298.79	4,974.4 5,073.4	181.0	-329.4 -341.6	499,209.90	815,198.58	32° 22' 9.993 N 32° 22' 10.060 N	103° 26' 46.739 W
5,200.0		298.79	5,073.4	194.4	-341.0	499,278.00	815,186.39	32° 22' 10.000 N 32° 22' 10.127 N	103° 26' 46.880 W
5,300.0		298.79	5,271.5	201.1	-366.0	499,200.01	815,174.19	32° 22' 10.127 N 32° 22' 10.195 N	103° 26' 47.022 W
5,400.0		298.79	5,370.5	201.1	-378.2	499,296.71	815,161.99	32° 22' 10.193 N 32° 22' 10.262 N	103° 26' 47.164 W
0,400.0	0.00	200.10	0,010.0	201.0	510.2	100,200.11	010,101.00	02 22 10.202 N	100 L0 TI.IOT W

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### **Microsoft** Planning Report - Geographic



Database:	EDM16	Local Co-ordinate Reference:	Well Ring Neck #1H
Company:	BTA Oil Producers, LLC	TVD Reference:	GL @ 3434.0usft
Project:	Lea County, NM (NAD 83)	MD Reference:	GL @ 3434.0usft
Site:	Ring Neck	North Reference:	Grid
Well:	Ring Neck #1H	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
E E00 0			E 460 E		-390.4	400 202 44	945 140 70	32° 22' 10.329 N	103° 26' 47.305 W
5,500.0 5,600.0	8.00 8.00	298.79 298.79	5,469.5 5,568.5	214.5 221.2	-390.4 -402.6	499,303.41 499,310.11	815,149.79 815,137.60	32° 22' 10.329 N 32° 22' 10.397 N	103° 26' 47.305 W
5,700.0	8.00	298.79	5,667.6	221.2	-402.0	499,316.81	815,125.40	32° 22' 10.397 N 32° 22' 10.464 N	103° 26' 47.588 W
5,800.0	8.00	298.79	5,766.6	234.6	-414.0	499,323.52	815,113.20	32° 22' 10.404 N 32° 22' 10.531 N	103° 26' 47.730 W
5,900.0	8.00	298.79	5,865.6	241.3	-439.1	499,330.22	815,101.00	32° 22' 10.599 N	103° 26' 47.871 W
6,000.0	8.00	298.79	5,964.6	248.0	-451.3	499,336.92	815,088.81	32° 22' 10.666 N	103° 26' 48.013 W
6,100.0	8.00	298.79	6,063.7	254.7	-463.5	499,343.62	815,076.61	32° 22' 10.733 N	103° 26' 48.154 W
6,200.0	8.00	298.79	6,162.7	261.4	-475.7	499,350.32	815,064.41	32° 22' 10.800 N	103° 26' 48.296 W
6,300.0	8.00	298.79	6,261.7	268.1	-487.9	499,357.03	815,052.21	32° 22' 10.868 N	103° 26' 48.438 W
6,400.0	8.00	298.79	6,360.7	274.8	-500.1	499,363.73	815,040.02	32° 22' 10.935 N	103° 26' 48.579 W
6,500.0	8.00	298.79	6,459.8	281.5	-512.3	499,370.43	815,027.82	32° 22' 11.002 N	103° 26' 48.721 W
6,600.0	8.00	298.79	6,558.8	288.2	-524.5	499,377.13	815,015.62	32° 22' 11.070 N	103° 26' 48.862 W
6,700.0	8.00	298.79	6,657.8	294.9	-536.7	499,383.83	815,003.43	32° 22' 11.137 N	103° 26' 49.004 W
6,800.0	8.00	298.79	6,756.9	301.6	-548.9	499,390.53	814,991.23	32° 22' 11.204 N	103° 26' 49.145 W
6,900.0	8.00	298.79	6,855.9	308.3	-561.1	499,397.24	814,979.03	32° 22' 11.272 N	103° 26' 49.287 W
7,000.0	8.00	298.79	6,954.9	315.0	-573.3	499,403.94	814,966.83	32° 22' 11.339 N	103° 26' 49.429 W
7,100.0	8.00	298.79	7,053.9	321.7	-585.5	499,410.64	814,954.64	32° 22' 11.406 N	103° 26' 49.570 W
7,152.9	8.00	298.79	7,106.3	325.3	-592.0	499,414.19	814,948.18	32° 22' 11.442 N	103° 26' 49.645 W
7,200.0	7.06	298.79	7,153.0	328.2	-597.4	499,417.16	814,942.77	32° 22' 11.472 N	103° 26' 49.708 W
7,300.0	5.06	298.79	7,252.4	333.3	-606.6	499,422.24	814,933.53	32° 22' 11.523 N	103° 26' 49.815 W
7,400.0	3.06	298.79	7,352.2	336.7	-612.8	499,425.65	814,927.32	32° 22' 11.557 N	103° 26' 49.887 W
7,500.0	1.06	298.79	7,452.1	338.4	-616.0	499,427.38	814,924.18	32° 22' 11.574 N	103° 26' 49.924 W
7,552.9	0.00	0.00	7,505.0	338.7	-616.4	499,427.61	814,923.75	32° 22' 11.577 N	103° 26' 49.929 W
7,600.0	0.00	0.00	7,552.1	338.7	-616.4	499,427.61	814,923.75	32° 22' 11.577 N	103° 26' 49.929 W
7,700.0	0.00	0.00	7,652.1	338.7	-616.4	499,427.61	814,923.75	32° 22' 11.577 N	103° 26' 49.929 W
7,800.0	0.00	0.00	7,752.1	338.7	-616.4	499,427.61	814,923.75	32° 22' 11.577 N	103° 26' 49.929 W
7,900.0	0.00	0.00	7,852.1	338.7	-616.4	499,427.61	814,923.75	32° 22' 11.577 N	103° 26' 49.929 W
8,000.0	0.00	0.00	7,952.1	338.7	-616.4	499,427.61	814,923.75	32° 22' 11.577 N	103° 26' 49.929 W
8,100.0	0.00	0.00	8,052.1	338.7	-616.4	499,427.61	814,923.75	32° 22' 11.577 N	103° 26' 49.929 W
8,200.0	0.00	0.00	8,152.1	338.7	-616.4	499,427.61	814,923.75	32° 22' 11.577 N	103° 26' 49.929 W
8,300.0	0.00	0.00	8,252.1	338.7	-616.4	499,427.61	814,923.75	32° 22' 11.577 N	103° 26' 49.929 W
8,400.0	0.00	0.00	8,352.1	338.7	-616.4	499,427.61	814,923.75	32° 22' 11.577 N	103° 26' 49.929 W
8,500.0	0.00	0.00	8,452.1	338.7	-616.4	499,427.61	814,923.75	32° 22' 11.577 N	103° 26' 49.929 W
8,600.0	0.00	0.00	8,552.1	338.7	-616.4	499,427.61	814,923.75	32° 22' 11.577 N	103° 26' 49.929 W
8,700.0	0.00	0.00	8,652.1	338.7	-616.4	499,427.61	814,923.75	32° 22' 11.577 N	103° 26' 49.929 W
8,800.0	0.00	0.00	8,752.1	338.7	-616.4	499,427.61	814,923.75	32° 22' 11.577 N	103° 26' 49.929 W
8,900.0	0.00	0.00	8,852.1	338.7	-616.4	499,427.61	814,923.75	32° 22' 11.577 N	103° 26' 49.929 W
9,000.0	0.00	0.00	8,952.1	338.7	-616.4	499,427.61	814,923.75	32° 22' 11.577 N	103° 26' 49.929 W
9,100.0	0.00	0.00	9,052.1	338.7	-616.4	499,427.61	814,923.75	32° 22' 11.577 N	103° 26' 49.929 W
9,200.0	0.00 0.00	0.00 0.00	9,152.1	338.7 338.7	-616.4 -616.4	499,427.61	814,923.75	32° 22' 11.577 N 32° 22' 11.577 N	103° 26' 49.929 W 103° 26' 49.929 W
9,300.0			9,252.1			499,427.61	814,923.75		
9,400.0 9,500.0	0.00	0.00	9,352.1 9,452.1	338.7	-616.4	499,427.61	814,923.75	32° 22' 11.577 N	103° 26' 49.929 W 103° 26' 49.929 W
9,600.0	0.00 0.00	0.00 0.00	9,452.1 9,552.1	338.7 338.7	-616.4 -616.4	499,427.61 499,427.61	814,923.75	32° 22' 11.577 N 32° 22' 11.577 N	103° 26' 49.929 W
9,700.0	0.00	0.00	9,652.1	338.7	-616.4	499,427.61	814,923.75 814,923.75	32° 22' 11.577 N 32° 22' 11.577 N	103° 26' 49.929 W
9,800.0	0.00	0.00	9,752.1	338.7	-616.4	499,427.61	814,923.75	32° 22' 11.577 N 32° 22' 11.577 N	103° 26' 49.929 W
9,900.0	0.00	0.00	9,852.1	338.7	-616.4	499,427.61	814,923.75	32° 22' 11.577 N 32° 22' 11.577 N	103° 26' 49.929 W
10,000.0	0.00	0.00	9,952.1	338.7	-616.4	499,427.61	814,923.75	32° 22' 11.577 N	103° 26' 49.929 W
10,000.0	0.00	0.00	10,052.1	338.7	-616.4	499,427.61	814,923.75	32° 22' 11.577 N	103° 26' 49.929 W
10,100.0	0.00	0.00	10,052.1	338.7	-616.4	499,427.61	814,923.75	32° 22' 11.577 N 32° 22' 11.577 N	103° 26' 49.929 W
10,200.0	0.00	0.00	10,252.1	338.7	-616.4	499,427.61	814,923.75	32° 22' 11.577 N	103° 26' 49.929 W
10,400.0	0.00	0.00	10,352.1	338.7	-616.4	499,427.61	814,923.75	32° 22' 11.577 N	103° 26' 49.929 W
10,500.0	0.00	0.00	10,452.1	338.7	-616.4	499,427.61	814,923.75	32° 22' 11.577 N	103° 26' 49.929 W
10,600.0	0.00	0.00	10,552.1	338.7	-616.4	499,427.61	814,923.75	32° 22' 11.577 N	103° 26' 49.929 W
10,688.9	0.00	0.00	10,641.0	338.7	-616.4	499,427.61	814,923.75	32° 22' 11.577 N	103° 26' 49.929 W
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### **Microsoft** Planning Report - Geographic



Database: Company:	EDM16 BTA Oil Producers, LLC	Local Co-ordinate Reference: TVD Reference:	Well Ring Neck #1H GL @ 3434.0usft
Project: Site:	Lea County, NM (NAD 83) Ring Neck	MD Reference:	GL @ 3434.0usft Grid
Well:	Ring Neck #1H	North Reference: 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
. ,									-
10,700.0	0.00	0.00	10,652.1	338.7	-616.4	499,427.61	814,923.75	32° 22' 11.577 N	103° 26' 49.929 W
10,738.9	0.00	0.00	10,691.0	338.7 335.4	-616.4	499,427.61	814,923.75	32° 22' 11.577 N 32° 22' 11.545 N	103° 26' 49.929 W
10,800.0	6.11 16.11	179.67 179.67	10,752.0	335.4 316.2	-616.4 -616.3	499,424.36	814,923.77	32° 22' 11.354 N	103° 26' 49.929 W 103° 26' 49.929 W
10,900.0 11,000.0	26.11	179.67	10,850.0 10,943.2	280.2	-616.1	499,405.12 499,369.15	814,923.88 814,924.09	32° 22' 11.354 N 32° 22' 10.998 N	103° 26' 49.929 W
11,100.0	36.11	179.67	11,028.7	280.2	-615.8	499,309.15	814,924.09	32° 22' 10.998 N 32° 22' 10.488 N	103° 26' 49.930 W
11,200.0	46.11	179.67	11,103.9	163.0	-615.4	499,251.89	814,924.36	32° 22' 10.488 N 32° 22' 9.838 N	103° 26' 49.932 W
11,300.0	56.11	179.67	11,166.6	85.2	-614.9	499,231.09	814,925.21	32° 22' 9.069 N	103° 26' 49.934 W
11,400.0	66.11	179.67	11,214.9	-2.2	-614.4	499,086.72	814,925.71	32° 22' 9.009 N 32° 22' 8.204 N	103° 26' 49.939 W
11,500.0	76.11	179.67	11,247.2	-96.7	-613.9	498,992.23	814,926.26	32° 22' 7.269 N	103° 26' 49.941 W
11,600.0	86.11	179.67	11,262.7	-195.4	-613.3	498,893.56	814,926.83	32° 22' 6.292 N	103° 26' 49.944 W
11,638.9	90.00	179.67	11,264.0	-234.3	-613.1	498,854.67	814,927.05	32° 22' 5.907 N	103° 26' 49.945 W
11,700.0	90.00	179.67	11,264.0	-295.3	-612.7	498,793.59	814,927.41	32° 22' 5.303 N	103° 26' 49.947 W
11,800.0	90.00	179.67	11,264.0	-395.3	-612.2	498,693.59	814,927.98	32° 22' 4.314 N	103° 26' 49.950 W
11,900.0	90.00	179.67	11,264.0	-495.3	-611.6	498,593.59	814,928.56	32° 22' 3.324 N	103° 26' 49.953 W
12,000.0	90.00	179.67	11,264.0	-595.3	-611.0	498,493.59	814,929.14	32° 22' 2.335 N	103° 26' 49.956 W
12,100.0	90.00	179.67	11,264.0	-695.3	-610.4	498,393.60	814,929.71	32° 22' 1.345 N	103° 26' 49.959 W
12,100.0	90.00	179.67	11,264.0	-795.3	-609.9	498,293.60	814,930.29	32° 22' 0.356 N	103° 26' 49.962 W
12,300.0	90.00	179.67	11,264.0	-895.3	-609.3	498,193.60	814,930.87	32° 21' 59.366 N	103° 26' 49.965 W
12,400.0	90.00	179.67	11,264.0	-995.3	-608.7	498,093.60	814,931.44	32° 21' 58.377 N	103° 26' 49.968 W
12,500.0	90.00	179.67	11,264.0	-1,095.3	-608.1	497,993.60	814,932.02	32° 21' 57.387 N	103° 26' 49.971 W
12,600.0	90.00	179.67	11,264.0	-1,195.3	-607.6	497,893.61	814,932.60	32° 21' 56.398 N	103° 26' 49.974 W
12,700.0	90.00	179.67	11,264.0	-1,295.3	-607.0	497,793.61	814,933.17	32° 21' 55.408 N	103° 26' 49.976 W
12,800.0	90.00	179.67	11,264.0	-1,395.3	-606.4	497,693.61	814,933.75	32° 21' 54.419 N	103° 26' 49.979 W
12,900.0	90.00	179.67	11,264.0	-1,495.3	-605.8	497,593.61	814,934.33	32° 21' 53.429 N	103° 26' 49.982 W
13,000.0	90.00	179.67	11,264.0	-1,595.3	-605.2	497,493.62	814,934.90	32° 21' 52.440 N	103° 26' 49.985 W
13,100.0	90.00	179.67	11,264.0	-1,695.3	-604.7	497,393.62	814,935.48	32° 21' 51.450 N	103° 26' 49.988 W
13,200.0	90.00	179.67	11,264.0	-1,795.3	-604.1	497,293.62	814,936.06	32° 21' 50.461 N	103° 26' 49.991 W
13,300.0	90.00	179.67	11,264.0	-1,895.3	-603.5	497,193.62	814,936.63	32° 21' 49.471 N	103° 26' 49.994 W
13,400.0	90.00	179.67	11,264.0	-1,995.3	-602.9	497,093.62	814,937.21	32° 21' 48.482 N	103° 26' 49.997 W
13,500.0	90.00	179.67	11,264.0	-2,095.3	-602.4	496,993.63	814,937.79	32° 21' 47.492 N	103° 26' 50.000 W
13,600.0	90.00	179.67	11,264.0	-2,195.3	-601.8	496,893.63	814,938.36	32° 21' 46.503 N	103° 26' 50.003 W
13,700.0	90.00	179.67	11,264.0	-2,295.3	-601.2	496,793.63	814,938.94	32° 21' 45.513 N	103° 26' 50.006 W
13,800.0	90.00	179.67	11,264.0	-2,395.3	-600.6	496,693.63	814,939.52	32° 21' 44.524 N	103° 26' 50.009 W
13,900.0	90.00	179.67	11,264.0	-2,495.3	-600.1	496,593.63	814,940.09	32° 21' 43.534 N	103° 26' 50.012 W
14,000.0	90.00	179.67	11,264.0	-2,595.3	-599.5	496,493.64	814,940.67	32° 21' 42.545 N	103° 26' 50.014 W
14,100.0	90.00	179.67	11,264.0	-2,695.3	-598.9	496,393.64	814,941.25	32° 21' 41.555 N	103° 26' 50.017 W
14,200.0	90.00	179.67	11,264.0	-2,795.3	-598.3	496,293.64	814,941.83	32° 21' 40.566 N	103° 26' 50.020 W
14,300.0	90.00	179.67	11,264.0	-2,895.3	-597.7	496,193.64	814,942.40	32° 21' 39.576 N	103° 26' 50.023 W
14,400.0	90.00	179.67	11,264.0	-2,995.3	-597.2	496,093.65	814,942.98	32° 21' 38.587 N	103° 26' 50.026 W
14,500.0	90.00	179.67	11,264.0	-3,095.3	-596.6	495,993.65	814,943.56	32° 21' 37.597 N	103° 26' 50.029 W
14,600.0	90.00	179.67	11,264.0	-3,195.3	-596.0	495,893.65	814,944.13	32° 21' 36.608 N	103° 26' 50.032 W
14,700.0	90.00	179.67	11,264.0	-3,295.3	-595.4	495,793.65	814,944.71	32° 21' 35.618 N	103° 26' 50.035 W
14,800.0	90.00	179.67	11,264.0	-3,395.3	-594.9	495,693.65	814,945.29	32° 21' 34.629 N	103° 26' 50.038 W
14,900.0	90.00	179.67	11,264.0	-3,495.3	-594.3	495,593.66	814,945.86	32° 21' 33.639 N	103° 26' 50.041 W
15,000.0	90.00	179.67	11,264.0	-3,595.3	-593.7	495,493.66	814,946.44	32° 21' 32.650 N	103° 26' 50.044 W
15,100.0	90.00	179.67	11,264.0	-3,695.3	-593.1	495,393.66	814,947.02	32° 21' 31.660 N	103° 26' 50.047 W
15,200.0	90.00	179.67	11,264.0	-3,795.3	-592.6	495,293.66	814,947.59	32° 21' 30.671 N	103° 26' 50.050 W
15,300.0	90.00	179.67	11,264.0	-3,895.3	-592.0	495,193.66	814,948.17	32° 21' 29.681 N	103° 26' 50.053 W
15,400.0	90.00	179.67	11,264.0	-3,995.3	-591.4	495,093.67	814,948.75	32° 21' 28.692 N	103° 26' 50.055 W
15,500.0	90.00	179.67	11,264.0	-4,095.3	-590.8	494,993.67	814,949.32	32° 21' 27.702 N	103° 26' 50.058 W
15,600.0	90.00	179.67	11,264.0	-4,195.3	-590.3	494,893.67	814,949.90	32° 21' 26.713 N	103° 26' 50.061 W
15,700.0	90.00	179.67	11,264.0	-4,295.3	-589.7	494,793.67	814,950.48	32° 21' 25.723 N	103° 26' 50.064 W
15,800.0	90.00	179.67	11,264.0	-4,395.3	-589.1	494,693.68	814,951.05	32° 21' 24.734 N	103° 26' 50.067 W
15,900.0	90.00	179.67	11,264.0	-4,495.3	-588.5	494,593.68	814,951.63	32° 21' 23.744 N	103° 26' 50.070 W

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COMPASS 5000.16 Build 97

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### **Microsoft** Planning Report - Geographic



Database:	EDM16	Local Co-ordinate Reference:	Well Ring Neck #1H
Company:	BTA Oil Producers, LLC	TVD Reference:	GL @ 3434.0usft
Project:	Lea County, NM (NAD 83)	MD Reference:	GL @ 3434.0usft
Site:	Ring Neck	North Reference:	Grid
Well:	Ring Neck #1H	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
16,000.0	90.00	179.67	11,264.0	-4,595.3	-587.9	494,493.68	814,952.21	32° 21' 22.755 N	103° 26' 50.073 W
16,100.0	90.00	179.67	11,264.0	-4,695.3	-587.4	494,393.68	814,952.78	32° 21' 21.765 N	103° 26' 50.076 W
16,200.0	90.00	179.67	11,264.0	-4,795.3	-586.8	494,293.68	814,953.36	32° 21' 20.776 N	103° 26' 50.079 W
16,277.5	90.00	179.67	11,264.0	-4,872.7	-586.3	494,216.21	814,953.81	32° 21' 20.009 N	103° 26' 50.081 W

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
Ring Neck #1H KOP - plan hits target cente - Point	0.00 er	0.00	10,641.0	338.7	-616.4	499,427.61	814,923.75	32° 22' 11.577 N	103° 26' 49.929 W
Ring Neck #1H BHL - plan hits target cente - Point	0.00 er	0.00	11,264.0	-4,872.7	-586.3	494,216.21	814,953.81	32° 21' 20.009 N	103° 26' 50.081 W

# PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	BTA OIL PRODUCERS LLC
WELL NAME & NO.:	RING NECK 8817 26 FED 1H
SURFACE HOLE FOOTAGE:	364'/N & 1274'/W
BOTTOM HOLE FOOTAGE	50'/S & 660'/W
LOCATION:	Section 26, T.22 S., R.34 E., NMP
COUNTY:	Lea County, New Mexico

# COA

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

### **Primary Casing Design:**

1. The **13-3/8** inch surface casing shall be set at approximately **1910 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. The surface hole shall be **17 1/2** inch in diameter.

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- 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 <u>8</u> <u>hours</u> 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. Intermediate casing shall be set at approximately **5820 feet.** The minimum required fill of cement behind the **9-5/8** inch intermediate casing is:

Operator has proposed a DV tool, the depth may be adjusted as long as the cement is changed proportionally. The DV tool may be cancelled if cement circulates to surface on the first stage.

- a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
- b. Second stage above DV tool:
  - Cement to surface. If cement does not circulate, contact the appropriate BLM office.
     Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, potash or capitan reef.

Casing test must be conducted in accordance with 43 CFR 3170. Surface pressure applied will vary based on fluid in the casing and burst conditions.

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

- In <u>Capitan Reef Areas</u> 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:

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# (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 fresh water mud to protect the Capitan Reef and use fresh water 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 on top of Capitan Reef top or 200 feet into the previous casing, whichever is greater. 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, potash or capitan reef.

### 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.
  - 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 part 3170 must be followed.

## **D. SPECIAL REQUIREMENT (S)**

### (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).
- 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 part 3170.
- 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)

### 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
    - Notify the BLM when moving in and removing the Spudder Rig.
    - Notify the BLM when moving in the 2<sup>nd</sup> Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
    - BOP/BOPE test to be conducted per **43 CFR part 3170 Subpart 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. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

# 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.
- <u>Wait on cement (WOC) for Potash Areas:</u> 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, 2) until cement has been in place at least <u>24 hours</u>. WOC time will be recorded in the driller's log. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.

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- 3. <u>Wait on cement (WOC) for Water Basin:</u> 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 <u>8 hours</u>. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing intergrity 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-P potash area, the NMOCD requirements shall be followed.

### B. PRESSURE CONTROL

- All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in 43 CFR part 3170 Subpart 3172 and API STD 53 Sec. 5.3.
- 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.

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- 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:
  - 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. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR part 3170 must be followed.
  - e. 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.
  - a. 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).
  - b. 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.)
  - c. 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 part 3170**

**Subpart 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 water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).

- d. 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.
- e. The results of the test shall be reported to the appropriate BLM office.
- f. 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.
- g. 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.
- h. 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 part 3170 Subpart 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 11/28/2023

# **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**

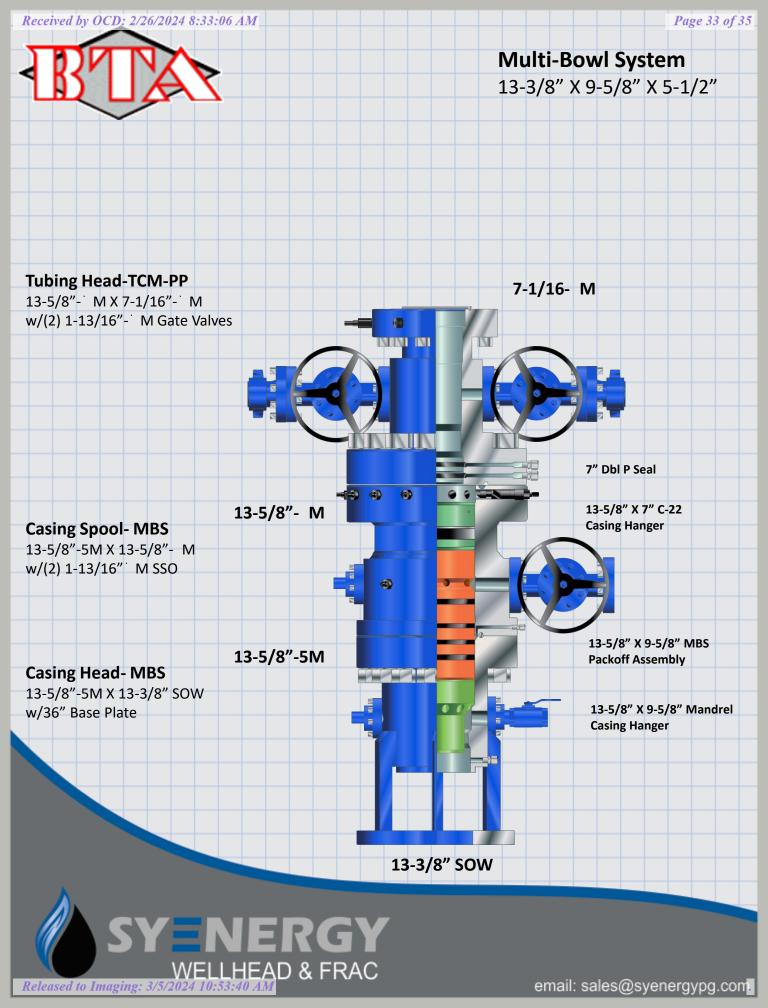
BTA Oil Producers, LLC respectively requests an exception to the following NMOCD rule:

• 19.15.16.10 Casing AND TUBING RQUIREMENTS:

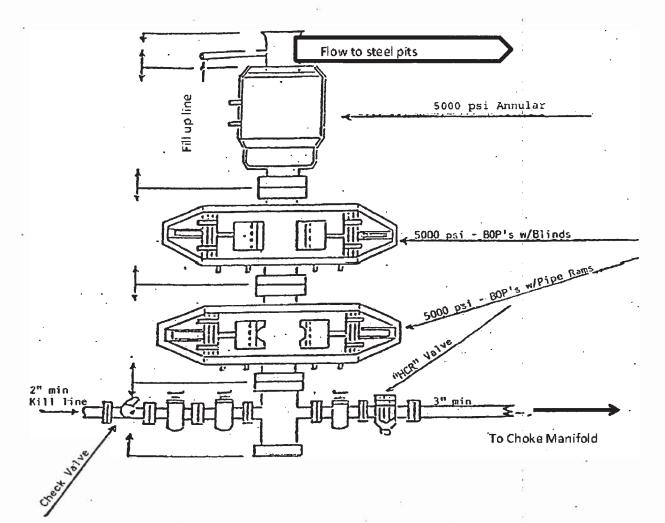
J (3): "The operator shall set tubing as near the bottom as practical and tubing

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.



# 13-5/8" 5,000 PSI BOP



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

Operator:	OGRID:
BTA OIL PRODUCERS, LLC	260297
104 S Pecos	Action Number:
Midland, TX 79701	317293
	Action Type:
	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

#### CONDITIONS

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Created By	Condition	Condition Date		
pkautz	Will require a File As Drilled C-102 and a Directional Survey with the C-104	3/5/2024		
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	3/5/2024		
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	3/5/2024		
pkautz	Cement is required to circulate on both surface and intermediate1 strings of casing	3/5/2024		
pkautz	If cement does not circulate on any string, a CBL is required for that string of casing	3/5/2024		

CONDITIONS

Action 317293