Form 3160-3 (June 2015)		FORM APPROVED OMB No. 1004-0137
UNITED STATI DEPARTMENT OF THE	INTERIOR	Expires: January 31, 2018 5. Lease Serial No.
BUREAU OF LAND MAN APPLICATION FOR PERMIT TO	6. If Indian, Allotee or Tribe Name	
	REENTER	7. If Unit or CA Agreement, Name and No.
	Other	8. Lease Name and Well No.
1c. Type of Completion: Hydraulic Fracturing	Single Zone Multiple Zone	[317432]
2. Name of Operator [260297]		9. API Well No. 30-025-50817
3a. Address	3b. Phone No. (include area code)	10. Field and Pool, or Exploratory [97900]
4. Location of Well (Report location clearly and in accordance	e with 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 o	ffice*	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. Spa	cing 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. BL	M/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 (as applicable)	of Onshore Oil and Gas Order No. 1, and th	e Hydraulic Fracturing rule per 43 CFR 3162.3-3
 Well plat certified by a registered surveyor. A Drilling Plan. 	4. Bond to cover the operat Item 20 above).	ions unless covered by an existing bond on file (see
 A Surface Use Plan (if the location is on National Forest Syst SUPO must be filed with the appropriate Forest Service Office 	tem Lands, the 5. Operator certification.	formation and/or plans as may be requested by the
25. Signature	Name (Printed/Typed)	Date
Title	I	
Approved by (Signature)	Name (Printed/Typed)	Date
Title	Office	
Application approval does not warrant or certify that the applic applicant to conduct operations thereon. Conditions of approval, if any, are attached.	ant holds legal or equitable title to those righ	ts in the subject lease which would entitle the
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, of the United States any false, fictitious or fraudulent statement		
NGMP Rec 11/22/2022		1 47





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*(Instructions on page 2)

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

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

DAMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

^ 30-025-	PI Number		۳ 9790	Pool Code	I	RED HILLS;UI	Pool Name PR BONE S		ALE
Property C 317432	ode				Property N			Wel	I Number 44H
OGRID N 260297	No			BTA OI	Operator N L PRODU	^{ame} UCERS, LLC			evation 422'
					Surface Loc				
UL or lot No. Section Township Range Lot Idn Feel from the North/S						North/South line	Feet from the	East/West line	County
D	10	25-S	33-E		200	NORTH	840	WEST	LEA
			I	Bottom Hole	Location If Di	ifferent From Surface			
JL or lot No	Section	Township	Range	Lot Idn	Fect from the	North/South line	Feet from the	East/West line	County
Ν	10	25-S	33-E		50	SOUTH	2310	WEST	LEA
Dedicated Acres 160 ALLOWABLE W	Joint or ILL BE ASSIGN		MPLETION UNT			N CONSOLIDATED OR A NO	DN-STANDARD UNIT	HAS BEEN APPROVED	BY THE DIVIS
840' <u>S.L.</u> <u>GRID AZ.=84</u> HORIZ. DIST.4	5'43'48"		SET C	A - Y B - Y C - Y D - Y E - Y	3 NME LOCATION 301.2 N 796.9 E 51786' N 566049' W KE POINT 3 NME 910.9 N 266.0 E 52059' N 561300' W ORNER COORE NAD 27 '= 419937.5 I '= 419946.3 I '= 419955.0 I '= 419955.0 L '= 414662.9 I = 414662.9 I	N, X= 736770.5 E N, X= 738093.6 E N, X= 739416 7 E N, X= 738127.1 E N, X= 739451 8 E	I hereby see complete to that this or unleased in proposed b well at this of such min pooling ag heretofore Seman Printed N	ay Hajar ame IAR@BTAOII	erem is true and c and behef, and orking interest or including the a right to drift thi tract with an own i to a voluntary booling order 28/2022 Date
	<u>GRID AZ.=</u> HORIZ. DIS	1 <u>79'39'03"</u> 5T.=5136.4'		A - Y B - Y C - Y D - Y E - Y	NAD 83 = 419995.6 1 = 42005.4 1 = 420013.1 1 = 414720.9 1 = 414727.2 1 = 414727.2 1	N, X = 777956.0 E N, X = 779279.1 E V, X = 780602.2 E N, X = 779312.8 E N, X = 780637.6 E LAST TAKE POINT	I hereby cet was plotted me or unde and correct Date of Sy Signature		shown on this pla surveys made by the same is true
				NAD 8. Y= 414E X= 7802 LAT.=32.1 LONG.=103. BOTTOM HOL NAD 8. Y= 4147 X= 7802 LAT.=32.1 LONG.=103.	825.6 N 197.0 E 38080' N 561317' W E LOCATION 3 NME 775.6 N 297.3 E 37942' N	NAD 27 NME Y= 414767.6 N X= 739111.3 E LAT.=32.137955' N LONG.=103.560845' W BOITOM HOLE LOCATION NAD 27 NME Y= 414717.6 N X= 739111.6 E LAT.=32.137818' N LONG.=103.560845' W	Rona Certificate ACK	ROFESSION Number Gary G. Ronald	8 07/19/202 Eidson 126 J. Eidson 32 C W ● 22 11 02

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	E	Sta nergy, Minerals a	te of New Mex and Natural Res		ent		Subn Via I	nit Electronically E-permitting
		1220	onservation Di South St. Franc 1ta Fe, NM 87	cis Dr.				
This Natural Gas Man		Section	vith each Applicat	ion for Permit to I escription		PD) for a 1	new or	recompleted well.
I. Operator:BTA	Oil Producer		ffective May 25,			Date: _	8_/	11/2022
II. Type: ⊠ Original If Other, please descri			'.9.D(6)(a) NMAO		(6)(b) N	IMAC 🗆 (Other.	
III. Well(s): Provide the recompleted from a	the following inf	ormation for each	new or recomple	ted well or set of v	wells pi	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
VACA DRAW 9418		D-10-25S-33E	200 FSL, 840 FWL	+/- 800	+/- 2	2000	+/-	1200
FEDERAL 44H	30-025-508	17						
IV. Central Delivery V. Anticipated Sched	ule: Provide the		ation for each new		vell or s			7.9(D)(1) NMAC] osed to be drilled on
proposed to be recomp	pleted from a sin	gle well pad or con	nnected to a centr	al delivery point.				
Well Name	API	Spud Date	TD Reached Date	Completion Commencement		Initial F Back D		First Production Date
VACA DRAW 9418 FEDERAL 44H	30-025-508	1/13/2023 17	2/2/2023	2/16/2023		3/9/2023		4/8/2023
VI. Separation Equi	oment: 🗵 Attach	a complete descr	iption of how Ope	erator will size sep	aration	equipmen	t to op	timize gas capture
VII. Operational Pra Subsection A through			cription of the act	ions Operator wil	l take t	to comply	with t	he requirements of
VIII. Best Managem during active and plan			ete description of	Operator's best n	nanager	ment pract	ices 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.

I 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. \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 Samplajan
Printed Name: Sammy Hajar
Title: Regulatory Analyst
E-mail Address: SHAJAR@BTAOIL.COM
Date: 8/11/2022
Phone: 432-682-3753
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)
Approved By:
Title:
Title:
Title: Approval Date:
Title: Approval Date:
Title: Approval Date:

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: 10400087295

Operator Name: BTA OIL PRODUCERS LLC

Well Name: VACA DRAW 9418 10 FEDERAL

Well Type: OIL WELL

Well Number: 44H

Submission Date: 08/11/2022

Highlighted data reflects the most recent changes

11/14/2022

Drilling Plan Data Report

Show Final Text

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
9025543	QUATERNARY	3422	0	Ó	ALLUVIUM	NONE	N
9025544	RUSTLER	2331	1091	1091	ANHYDRITE	NONE	N
9025545	TOP SALT	1775	1647	1647	SALT	NONE	N
9025546	BASE OF SALT	-1365	4787	4787	SALT	NONE	N
9025547	DELAWARE	-1660	5082	5082	LIMESTONE	NATURAL GAS, OIL	N
9025556	BELL CANYON	-1845	5267	5267	SANDSTONE	NATURAL GAS, OIL	N
9025549	CHERRY CANYON	-3075	6497	6497	SANDSTONE	NATURAL GAS, OIL	N
9025550	BRUSHY CANYON	-4185	7607	7607	SANDSTONE	NATURAL GAS, OIL	N
9025551	BONE SPRING LIME	-5825	9247	9247	LIMESTONE	NATURAL GAS, OIL	N
9025552	UPPER AVALON SHALE	-5995	9417	9417	SANDSTONE, SHALE	NATURAL GAS, OIL	N
9025562	AVALON SAND	-6565	9987	9987	SANDSTONE, SHALE	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.

Well Work Type: Drill

Operator Name: BTA OIL PRODUCERS LLC

Well Name: VACA DRAW 9418 10 FEDERAL

Well Number: 44H

Page 10 of 31

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	1140	0	1140	3422	2282	1140	J-55	54.5	ST&C	2.3	5.5	DRY	8.3	DRY	13.7
2	INTERMED IATE	12.2 5	9.625	NEW	API	N	0	5127	0	5062	3419	-1640	5127	J-55	40	LT&C	1.7	1.5	DRY	2.5	DRY	3.1
3	PRODUCTI ON	8.75	5.5	NEW	API	N	0	15182	0	10042	3419	-6620	15182	P- 110	17	BUTT	1.5	2.2	DRY	2.2	DRY	2.1

Casing Attachments

Operator Name: BTA OIL PRODUCERS LLC

Well Name: VACA DRAW 9418 10 FEDERAL

Well Number: 44H

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):	
Vaca_Draw_44H_Casing_Assumption_20220811131848.JPG	

Section 4 - Cement

Operator Name: BTA OIL PRODUCERS LLC

Well Name: VACA DRAW 9418 10 FEDERAL

Well Number: 44H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	945	760	1.73	13.5	1314. 8	100	Class C	2% CaCl2
SURFACE	Tail		945	1140	200	1.35	14.8	270	100	Class C	2% CaCl2
INTERMEDIATE	Lead		0	4570	1350	2.46	12.8	3321	100	Class C	0.5% CaCl2
INTERMEDIATE	Tail		4570	5127	200	1.34	14.8	268	25	Class C	1% CaCl2
PRODUCTION	Lead		4127	9910	565	3.9	10.5	2203. 5	60	25% Poz 75% Class C	0.4% Fluid Loss
PRODUCTION	Tail		9910	1518 2	1335	1.25	14.4	1668. 75	25	Class H	0.2% LT Retarder

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

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

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

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

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

Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight (Ibs/gal)	Max Weight (Ibs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	Н	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	1140	OTHER : FW SPUD	8.3	8.4							
1140	5062	OTHER : BRINE	10	10							
5062	1004 2	OTHER : CUT BRINE	8.7	9.4							

Operator Name: BTA OIL PRODUCERS LLC

Well Name: VACA DRAW 9418 10 FEDERAL

Well Number: 44H

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: 4909

Anticipated Surface Pressure: 2699

Anticipated Bottom Hole Temperature(F): 160

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:

Vaca_Draw_9418_10_Fed_44H_Well_Plan_Rpt_20220811132452.pdf

Vaca_Draw_9418_10_Fed_44H_WM_20220811132452.pdf

Vaca_Draw_44H_NGMP_signed_20220811132504.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

Multi_Bowl_Diagram_13_38_x_9_58_x_5_12_20200917143315.pdf



BTA Oil Producers, LLC

Lea County, NM (NAD 83) Vaca Draw Sec 10, T25S, R33E Vaca Draw #44H

Wellbore #1

Plan: Design #1

Standard Planning Report - Geographic

10 August, 2022





Microsoft Planning Report - Geographic



Database: Company: Project: Site: Well: Wellbore: Design:	EDM16 BTA Oil Produce Lea County, NM Vaca Draw Sec Vaca Draw #441 Wellbore #1 Design #1	1 (NAD 83) 10, T25S, R	33E	TVD Referen MD Referen North Referen	e:	Well Vaca Dra GL @ 3422.0 GL @ 3422.0 Grid Minimum Cur	usft usft		
Project	Lea County, NM	(NAD 83), L	ea County, NM						
oco Butann	US State Plane 19 North American Da New Mexico Easte	atum 1983		System Datur	n:	Ground Level Using geodetic :	scale factor	r	
Site	Vaca Draw Sec 1	10, T25S, R3	3E						
Site Position: From: Position Uncertainty:	Мар	0.0 usft	Northing: Easting: Slot Radius:	779,59	2.34 usft Latitud 5.21 usft Longit 3/16 "			32° 9' 6. 103° 33' 48.4	
Well	Vaca Draw #44H								
Well Position	+N/-S +E/-W	0.0 usft 0.0 usft	Northing: Easting:		419,801.20 usft 778,796.90 usft	Latitude: Longitude:		32° 9' 6. 103° 33' 57.	
Position Uncertainty Grid Convergence:		0.0 usft 0.41 °	Wellhead Elev	vation:	usft	Ground Level:		3,422	.0 usf
Wellbore	Wellbore #1								
Magnetics	Model Name)	Sample Date	Declinatio (°)	n	Dip Angle (°)	F	Field Strength (nT)	
	IGRF200	0510	12/31/2009		7.74	60.18		48,750.60528606	
Design	Design #1								
Audit Notes: Version:	Ū		Phase:	PROTOTYPE	Tie On Der	oth:	0.0		
Vertical Section:		(u	rom (TVD) Isft)).0	+N/-S (usft) 0.0	+E/-W (usft) 0.0		Direction (°) 163.38		
Plan Survey Tool Pro	gram [Date 8/10/2	2022						
Depth From (usft)	Depth To (usft) Su	ırvey (Wellb	ore)	Tool Name	Rema	arks			
1 0.0	15,182.1 De	esign #1 (We	llbore #1)						



Microsoft Planning Report - Geographic



Database:	EDM16	Local Co-ordinate Reference:	Well Vaca Draw #44H
Company:	BTA Oil Producers, LLC	TVD Reference:	GL @ 3422.0usft
Project:	Lea County, NM (NAD 83)	MD Reference:	GL @ 3422.0usft
Site:	Vaca Draw Sec 10, T25S, R33E	North Reference:	Grid
Well:	Vaca Draw #44H	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	
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,750.0	11.00	83.02	1,746.6	6.4	52.2	2.00	2.00	0.00	83.02	
8,959.9	11.00	83.02	8,824.0	173.6	1,417.8	0.00	0.00	0.00	0.00	
9,509.9	0.00	0.00	9,370.7	180.0	1,470.0	2.00	-2.00	0.00	180.00	
9,653.7	0.00	0.00	9,514.5	180.0	1,470.0	0.00	0.00	0.00	0.00	
9,703.7	0.00	0.00	9,564.5	180.0	1,470.0	0.00	0.00	0.00	0.00	
10,453.7	90.00	179.66	10,042.0	-297.5	1,472.8	12.00	12.00	0.00	179.66	
15,182.1	90.00	179.66	10,042.0	-5,025.7	1,500.4	0.00	0.00	0.00	0.00	Vaca Draw #44H B



Microsoft Planning Report - Geographic



Database:	EDM16	Local Co-ordinate Reference:	Well Vaca Draw #44H
Company:	BTA Oil Producers, LLC	TVD Reference:	GL @ 3422.0usft
Project:	Lea County, NM (NAD 83)	MD Reference:	GL @ 3422.0usft
Site:	Vaca Draw Sec 10, T25S, R33E	North Reference:	Grid
Well:	Vaca Draw #44H	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
. ,									-
0.0 100.0		0.00 0.00	0.0 100.0	0.0 0.0	0.0 0.0	419,801.20 419,801.20	778,796.90	32° 9' 6.429 N	103° 33' 57.777 W
200.0		0.00	200.0	0.0	0.0	419,801.20	778,796.90 778,796.90	32° 9' 6.429 N 32° 9' 6.429 N	103° 33' 57.777 W 103° 33' 57.777 W
300.0		0.00	300.0	0.0	0.0	419,801.20	778,796.90	32° 9' 6.429 N 32° 9' 6.429 N	103° 33' 57.777 W
400.0		0.00	400.0	0.0	0.0	419,801.20	778,796.90	32° 9' 6.429 N	103° 33' 57.777 W
500.0		0.00	500.0	0.0	0.0	419,801.20	778,796.90	32° 9' 6.429 N	103° 33' 57.777 W
600.0		0.00	600.0	0.0	0.0	419,801.20	778,796.90	32° 9' 6.429 N	103° 33' 57.777 W
700.0		0.00	700.0	0.0	0.0	419,801.20	778,796.90	32° 9' 6.429 N	103° 33' 57.777 W
800.0		0.00	800.0	0.0	0.0	419,801.20	778,796.90	32° 9' 6.429 N	103° 33' 57.777 W
900.0	0.00	0.00	900.0	0.0	0.0	419,801.20	778,796.90	32° 9' 6.429 N	103° 33' 57.777 W
1,000.0	0.00	0.00	1,000.0	0.0	0.0	419,801.20	778,796.90	32° 9' 6.429 N	103° 33' 57.777 W
1,100.0		0.00	1,100.0	0.0	0.0	419,801.20	778,796.90	32° 9' 6.429 N	103° 33' 57.777 W
1,200.0		0.00	1,200.0	0.0	0.0	419,801.20	778,796.90	32° 9' 6.429 N	103° 33' 57.777 W
1,300.0		83.02	1,300.0	0.2	1.7	419,801.41	778,798.63	32° 9' 6.431 N	103° 33' 57.756 W
1,400.0		83.02	1,399.8	0.8	6.9	419,802.05	778,803.82	32° 9' 6.437 N	103° 33' 57.696 W
1,500.0		83.02	1,499.5	1.9	15.6	419,803.11	778,812.47	32° 9' 6.447 N	103° 33' 57.595 W
1,600.0		83.02	1,598.7	3.4	27.7	419,804.59	778,824.57	32° 9' 6.461 N	103° 33' 57.455 W
1,700.0		83.02	1,697.5	5.3	43.2	419,806.49	778,840.10	32° 9' 6.478 N	103° 33' 57.274 W
1,750.0		83.02	1,746.6	6.4 7.6	52.2 61.7	419,807.60	778,849.14	32° 9' 6.489 N	103° 33' 57.168 W
1,800.0 1,900.0		83.02 83.02	1,795.7 1,893.9	7.8 9.9	80.7	419,808.76 419,811.08	778,858.61 778,877.55	32° 9' 6.499 N 32° 9' 6.521 N	103° 33' 57.058 W 103° 33' 56.838 W
2,000.0		83.02	1,893.9	9.9 12.2	99.6	419,811.08	778,896.49	32° 9' 6.543 N	103° 33' 56.617 W
2,000.0		83.02	2,090.2	12.2	118.5	419,815.71	778,915.43	32° 9' 6.564 N	103° 33' 56.397 W
2,200.0		83.02	2,030.2	16.8	137.5	419,818.03	778,934.37	32° 9' 6.586 N	103° 33' 56.176 W
2,300.0		83.02	2,286.5	19.2	156.4	419,820.35	778,953.30	32° 9' 6.608 N	103° 33' 55.956 W
2,400.0		83.02	2,384.7	21.5	175.4	419,822.67	778,972.24	32° 9' 6.629 N	103° 33' 55.735 W
2,500.0		83.02	2,482.8	23.8	194.3	419,824.99	778,991.18	32° 9' 6.651 N	103° 33' 55.515 W
2,600.0	11.00	83.02	2,581.0	26.1	213.2	419,827.31	779,010.12	32° 9' 6.672 N	103° 33' 55.294 W
2,700.0	11.00	83.02	2,679.2	28.4	232.2	419,829.63	779,029.06	32° 9' 6.694 N	103° 33' 55.074 W
2,800.0	11.00	83.02	2,777.3	30.7	251.1	419,831.95	779,048.00	32° 9' 6.716 N	103° 33' 54.853 W
2,900.0	11.00	83.02	2,875.5	33.1	270.0	419,834.27	779,066.94	32° 9' 6.737 N	103° 33' 54.633 W
3,000.0		83.02	2,973.7	35.4	289.0	419,836.58	779,085.88	32° 9' 6.759 N	103° 33' 54.412 W
3,100.0		83.02	3,071.8	37.7	307.9	419,838.90	779,104.82	32° 9' 6.780 N	103° 33' 54.192 W
3,200.0		83.02	3,170.0	40.0	326.9	419,841.22	779,123.75	32° 9' 6.802 N	103° 33' 53.971 W
3,300.0		83.02	3,268.1	42.3	345.8	419,843.54	779,142.69	32° 9' 6.824 N	103° 33' 53.751 W
3,400.0		83.02	3,366.3	44.7	364.7	419,845.86	779,161.63	32° 9' 6.845 N	103° 33' 53.531 W
3,500.0		83.02	3,464.5	47.0	383.7	419,848.18	779,180.57	32° 9' 6.867 N	103° 33' 53.310 W
3,600.0 3,700.0		83.02 83.02	3,562.6 3,660.8	49.3 51.6	402.6 421.6	419,850.50 419,852.82	779,199.51 779,218.45	32° 9' 6.888 N 32° 9' 6.910 N	103° 33' 53.090 W 103° 33' 52.869 W
3,800.0		83.02	3,759.0	53.9	421.0	419,855.14	779,237.39	32° 9' 6.932 N	103° 33' 52.649 W
3,900.0		83.02	3,857.1	56.3	459.4	419,857.46	779,256.33	32° 9' 6.953 N	103° 33' 52.428 W
4,000.0		83.02	3,955.3	58.6	478.4	419,859.78	779,275.27	32° 9' 6.975 N	103° 33' 52.208 W
4,100.0		83.02	4,053.5	60.9	497.3	419,862.09	779,294.21	32° 9' 6.996 N	103° 33' 51.987 W
4,200.0		83.02	4,151.6	63.2	516.3	419,864.41	779,313.14	32° 9' 7.018 N	103° 33' 51.767 W
4,300.0		83.02	4,249.8	65.5	535.2	419,866.73	779,332.08	32° 9' 7.040 N	103° 33' 51.546 W
4,400.0		83.02	4,347.9	67.9	554.1	419,869.05	779,351.02	32° 9' 7.061 N	103° 33' 51.326 W
4,500.0		83.02	4,446.1	70.2	573.1	419,871.37	779,369.96	32° 9' 7.083 N	103° 33' 51.105 W
4,600.0		83.02	4,544.3	72.5	592.0	419,873.69	779,388.90	32° 9' 7.105 N	103° 33' 50.885 W
4,700.0	11.00	83.02	4,642.4	74.8	611.0	419,876.01	779,407.84	32° 9' 7.126 N	103° 33' 50.664 W
4,800.0	11.00	83.02	4,740.6	77.1	629.9	419,878.33	779,426.78	32° 9' 7.148 N	103° 33' 50.444 W
4,900.0		83.02	4,838.8	79.4	648.8	419,880.65	779,445.72	32° 9' 7.169 N	103° 33' 50.223 W
5,000.0		83.02	4,936.9	81.8	667.8	419,882.97	779,464.66	32° 9' 7.191 N	103° 33' 50.003 W
5,100.0		83.02	5,035.1	84.1	686.7	419,885.28	779,483.59	32° 9' 7.213 N	103° 33' 49.782 W
5,200.0		83.02	5,133.2	86.4	705.7	419,887.60	779,502.53	32° 9' 7.234 N	103° 33' 49.562 W
5,300.0	11.00	83.02	5,231.4	88.7	724.6	419,889.92	779,521.47	32° 9' 7.256 N	103° 33' 49.341 W

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Microsoft Planning Report - Geographic



D	EDM40) Mall) /a a a Draw #4.411
Database:	EDM16	Local Co-ordinate Reference:	Well Vaca Draw #44H
Company:	BTA Oil Producers, LLC	TVD Reference:	GL @ 3422.0usft
Project:	Lea County, NM (NAD 83)	MD Reference:	GL @ 3422.0usft
Site:	Vaca Draw Sec 10, T25S, R33E	North Reference:	Grid
Well:	Vaca Draw #44H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey

Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Map Northing	Map Easting		
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	Latitude	Longitude
5,400.0	11.00	83.02	5,329.6	91.0	743.5	419,892.24	779,540.41	32° 9' 7.277 N	103° 33' 49.121 W
5,500.0	11.00	83.02	5,427.7	93.4	762.5	419,894.56	779,559.35	32° 9' 7.299 N	103° 33' 48.900 W
5,600.0	11.00	83.02	5,525.9	95.7	781.4	419,896.88	779,578.29	32° 9' 7.321 N	103° 33' 48.680 W
5,700.0	11.00	83.02	5,624.1	98.0	800.4	419,899.20	779,597.23	32° 9' 7.342 N	103° 33' 48.459 W
5,800.0	11.00	83.02	5,722.2	100.3	819.3	419,901.52	779,616.17	32° 9' 7.364 N	103° 33' 48.239 W
5,900.0	11.00	83.02	5,820.4	102.6	838.2	419,903.84	779,635.11	32° 9' 7.385 N	103° 33' 48.018 W
6,000.0	11.00	83.02	5,918.5	105.0	857.2	419,906.16	779,654.05	32° 9' 7.407 N	103° 33' 47.798 W
6,100.0	11.00	83.02	6,016.7	107.3	876.1	419,908.48	779,672.98	32° 9' 7.429 N	103° 33' 47.578 W
6,200.0	11.00	83.02	6,114.9	109.6	895.0	419,910.79	779,691.92	32° 9' 7.450 N	103° 33' 47.357 W
6,300.0	11.00	83.02	6,213.0	111.9	914.0	419,913.11	779,710.86	32° 9' 7.472 N	103° 33' 47.137 W
6,400.0	11.00	83.02	6,311.2	114.2	932.9	419,915.43	779,729.80	32° 9' 7.493 N	103° 33' 46.916 W
6,500.0	11.00	83.02	6,409.4	116.6	951.9	419,917.75	779,748.74	32° 9' 7.515 N	103° 33' 46.696 W
6,600.0	11.00	83.02	6,507.5	118.9	970.8	419,920.07	779,767.68	32° 9' 7.537 N	103° 33' 46.475 W
6,700.0	11.00	83.02	6,605.7	121.2	989.7	419,922.39	779,786.62	32° 9' 7.558 N	103° 33' 46.255 W
6,800.0	11.00	83.02	6,703.8	123.5	1,008.7	419,924.71	779,805.56	32° 9' 7.580 N	103° 33' 46.034 W
6,900.0	11.00	83.02	6,802.0	125.8	1,027.6	419,927.03	779,824.50	32° 9' 7.602 N	103° 33' 45.814 W
7,000.0	11.00	83.02	6,900.2	128.2	1,046.6	419,929.35	779,843.43	32° 9' 7.623 N	103° 33' 45.593 W
7,100.0	11.00	83.02 83.02	6,998.3	130.5 132.8	1,065.5 1,084.4	419,931.67	779,862.37 779,881.31	32° 9' 7.645 N	103° 33' 45.373 W 103° 33' 45.152 W
7,200.0	11.00		7,096.5		1,004.4	419,933.98		32° 9' 7.666 N	103° 33' 44.932 W
7,300.0 7,400.0	11.00 11.00	83.02 83.02	7,194.7 7,292.8	135.1 137.4	1,103.4	419,936.30 419,938.62	779,900.25 779,919.19	32° 9' 7.688 N 32° 9' 7.710 N	103° 33' 44.932 W
7,400.0	11.00	83.02	7,292.8	137.4	1,122.3	419,938.02	779,938.13	32° 9' 7.731 N	103° 33' 44.491 W
7,600.0	11.00	83.02	7,391.0	139.7	1,141.3	419,940.94	779,957.07	32° 9' 7.753 N	103° 33' 44.270 W
7,700.0	11.00	83.02	7,587.3	144.4	1,179.1	419,945.58	779,976.01	32° 9' 7.774 N	103° 33' 44.050 W
7,800.0	11.00	83.02	7,685.5	144.4	1,198.1	419,947.90	779,994.95	32° 9' 7.796 N	103° 33' 43.829 W
7,900.0	11.00	83.02	7,783.6	149.0	1,217.0	419,950.22	780,013.89	32° 9' 7.818 N	103° 33' 43.609 W
8,000.0	11.00	83.02	7,881.8	151.3	1,236.0	419,952.54	780,032.82	32° 9' 7.839 N	103° 33' 43.388 W
8,100.0	11.00	83.02	7,980.0	153.7	1,254.9	419,954.86	780,051.76	32° 9' 7.861 N	103° 33' 43.168 W
8,200.0	11.00	83.02	8,078.1	156.0	1,273.8	419,957.18	780,070.70	32° 9' 7.882 N	103° 33' 42.947 W
8,300.0	11.00	83.02	8,176.3	158.3	1,292.8	419,959.49	780,089.64	32° 9' 7.904 N	103° 33' 42.727 W
8,400.0	11.00	83.02	8,274.4	160.6	1,311.7	419,961.81	780,108.58	32° 9' 7.926 N	103° 33' 42.506 W
8,500.0	11.00	83.02	8,372.6	162.9	1,330.7	419,964.13	780,127.52	32° 9' 7.947 N	103° 33' 42.286 W
8,600.0	11.00	83.02	8,470.8	165.3	1,349.6	419,966.45	780,146.46	32° 9' 7.969 N	103° 33' 42.065 W
8,700.0	11.00	83.02	8,568.9	167.6	1,368.5	419,968.77	780,165.40	32° 9' 7.990 N	103° 33' 41.845 W
8,800.0	11.00	83.02	8,667.1	169.9	1,387.5	419,971.09	780,184.34	32° 9' 8.012 N	103° 33' 41.625 W
8,900.0	11.00	83.02	8,765.3	172.2	1,406.4	419,973.41	780,203.27	32° 9' 8.034 N	103° 33' 41.404 W
8,959.9	11.00	83.02	8,824.0	173.6	1,417.8	419,974.80	780,214.62	32° 9' 8.047 N	103° 33' 41.272 W
9,000.0	10.20	83.02	8,863.5	174.5	1,425.1	419,975.69	780,221.94	32° 9' 8.055 N	103° 33' 41.187 W
9,100.0	8.20	83.02	8,962.2	176.4	1,440.9	419,977.64	780,237.80	32° 9' 8.073 N	103° 33' 41.002 W
9,200.0	6.20	83.02	9,061.4	178.0	1,453.4	419,979.16	780,250.24	32° 9' 8.087 N	103° 33' 40.857 W
9,300.0	4.20	83.02	9,161.0	179.1	1,462.4	419,980.26	780,259.23	32° 9' 8.097 N	103° 33' 40.753 W
9,400.0	2.20	83.02	9,260.8	179.7	1,467.9	419,980.94	780,264.77	32° 9' 8.104 N	103° 33' 40.688 W
9,500.0	0.20	83.02	9,360.8	180.0	1,470.0	419,981.19	780,266.84	32° 9' 8.106 N	103° 33' 40.664 W
9,509.9	0.00	0.00	9,370.7	180.0	1,470.0	419,981.19	780,266.86	32° 9' 8.106 N	103° 33' 40.664 W
9,600.0	0.00	0.00	9,460.8	180.0	1,470.0	419,981.19	780,266.86	32° 9' 8.106 N	103° 33' 40.664 W
9,653.7	0.00	0.00	9,514.5	180.0	1,470.0	419,981.19	780,266.86	32° 9' 8.106 N	103° 33' 40.664 W
9,700.0	0.00	0.00	9,560.8	180.0	1,470.0	419,981.19	780,266.86	32° 9' 8.106 N	103° 33' 40.664 W
9,703.7		0.00	9,564.5	180.0	1,470.0	419,981.19	780,266.86	32° 9' 8.106 N	103° 33' 40.664 W
9,800.0	11.55	179.66	9,660.1	170.3	1,470.1	419,971.53	780,266.92	32° 9' 8.010 N	103° 33' 40.664 W
9,900.0	23.55	179.66	9,755.3	140.2	1,470.2	419,941.43	780,267.09	32° 9' 7.713 N	103° 33' 40.664 W
10,000.0	35.55	179.66	9,842.1	91.0	1,470.5	419,892.20	780,267.38	32° 9' 7.225 N	103° 33' 40.665 W
10,100.0	47.55	179.66	9,916.8	24.8	1,470.9	419,826.00	780,267.77	32° 9' 6.570 N	103° 33' 40.666 W
10,200.0	59.55 71.55	179.66	9,976.1	-55.5	1,471.4 1,471.0	419,745.71 419,654.85	780,268.24 780,268.77	32° 9' 5.776 N	103° 33' 40.667 W 103° 33' 40.669 W
10,300.0 10,400.0	71.55 83.55	179.66 179.66	10,017.5 10,039.0	-146.4 -243.8	1,471.9 1,472.5	419,654.85 419,557.38	780,269.34	32° 9' 4.877 N 32° 9' 3.912 N	103° 33' 40.669 W
10,400.0	05.00	179.00	10,039.0	-240.0	1,772.0	- 10,001.00	100,203.04	JZ 0 J.012 N	100 00 40.070 W

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Microsoft Planning Report - Geographic



Databa	ase:	EDM16	Local Co-ordinate Reference:	Well Vaca Draw #44H
Compa	any:	BTA Oil Producers, LLC	TVD Reference:	GL @ 3422.0usft
Project	t:	Lea County, NM (NAD 83)	MD Reference:	GL @ 3422.0usft
Site:		Vaca Draw Sec 10, T25S, R33E	North Reference:	Grid
Well:		Vaca Draw #44H	Survey Calculation Method:	Minimum Curvature
Wellbo	ore:	Wellbore #1		
Design	1:	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
10,453.7	90.00	179.66	10,042.0	-297.5	1,472.8	419,503.75	780,269.65	32° 9' 3.382 N	103° 33' 40.671 W
10,403.7	90.00	179.66	10,042.0	-297.5	1,473.1	419,303.75	780,269.92	32° 9' 2.924 N	103° 33' 40.672 W
10,600.0	90.00	179.66	10,042.0	-443.7	1,473.6	419,357.50	780,270.51	32° 9′ 1.934 N	103° 33' 40.673 W
10,700.0	90.00	179.66	10,042.0	-543.7	1,474.2	419,257.51	780,271.09	32° 9' 0.945 N	103° 33' 40.675 W
10,800.0	90.00	179.66	10,042.0	-643.7	1,474.8	419,157.51	780,271.68	32° 8' 59.955 N	103° 33' 40.676 W
10,900.0	90.00	179.66	10,042.0	-743.7	1,475.4	419,057.52	780,272.26	32° 8' 58.966 N	103° 33' 40.678 W
11,000.0	90.00	179.66	10,042.0	-843.7	1,476.0	418,957.52	780,272.84	32° 8' 57.976 N	103° 33' 40.680 W
11,100.0	90.00	179.66	10,042.0	-943.7	1,476.6	418,857.52	780,273.43	32° 8' 56.987 N	103° 33' 40.681 W
11,200.0	90.00	179.66	10,042.0	-1,043.7	1,477.2	418,757.53	780,274.01	32° 8' 55.997 N	103° 33' 40.683 W
11,300.0	90.00	179.66	10,042.0	-1,143.7	1,477.7	418,657.53	780,274.60	32° 8' 55.008 N	103° 33' 40.684 W
11,400.0	90.00	179.66	10,042.0	-1,243.7	1,478.3	418,557.54	780,275.18	32° 8' 54.018 N	103° 33' 40.686 W
11,500.0	90.00	179.66	10,042.0	-1,343.7	1,478.9	418,457.54	780,275.77	32° 8' 53.029 N	103° 33' 40.687 W
11,600.0	90.00	179.66	10,042.0	-1,443.7	1,479.5	418,357.55	780,276.35	32° 8' 52.039 N	103° 33' 40.689 W
11,700.0	90.00	179.66	10,042.0	-1,543.7	1,480.1	418,257.55	780,276.94	32° 8' 51.049 N	103° 33' 40.690 W
11,800.0	90.00	179.66	10,042.0	-1,643.7	1,480.7	418,157.56	780,277.52	32° 8' 50.060 N	103° 33' 40.692 W
11,900.0	90.00	179.66	10,042.0	-1,743.7	1,481.2	418,057.56	780,278.11	32° 8' 49.070 N	103° 33' 40.693 W
12,000.0	90.00	179.66	10,042.0	-1,843.7	1,481.8	417,957.56	780,278.69	32° 8' 48.081 N	103° 33' 40.695 W
12,100.0	90.00	179.66	10,042.0	-1,943.7	1,482.4	417,857.57	780,279.28	32° 8' 47.091 N	103° 33' 40.696 W
12,200.0	90.00	179.66	10,042.0	-2,043.7	1,483.0	417,757.57	780,279.86	32° 8' 46.102 N	103° 33' 40.698 W
12,300.0	90.00	179.66	10,042.0	-2,143.7	1,483.6	417,657.58	780,280.45	32° 8' 45.112 N	103° 33' 40.700 W
12,400.0	90.00	179.66	10,042.0	-2,243.7	1,484.2	417,557.58	780,281.03	32° 8' 44.123 N	103° 33' 40.701 W
12,500.0	90.00	179.66	10,042.0	-2,343.7	1,484.8	417,457.59	780,281.62	32° 8' 43.133 N	103° 33' 40.703 W
12,600.0	90.00	179.66	10,042.0	-2,443.7	1,485.3	417,357.59	780,282.20	32° 8' 42.144 N	103° 33' 40.704 W
12,700.0	90.00	179.66	10,042.0	-2,543.7	1,485.9	417,257.59	780,282.78	32° 8' 41.154 N	103° 33' 40.706 W
12,800.0	90.00	179.66	10,042.0	-2,643.7	1,486.5	417,157.60	780,283.37	32° 8' 40.165 N	103° 33' 40.707 W
12,900.0	90.00	179.66	10,042.0	-2,743.7	1,487.1	417,057.60	780,283.95	32° 8' 39.175 N	103° 33' 40.709 W
13,000.0	90.00	179.66	10,042.0	-2,843.7	1,487.7	416,957.61	780,284.54	32° 8' 38.186 N	103° 33' 40.710 W
13,100.0	90.00	179.66	10,042.0	-2,943.7	1,488.3	416,857.61	780,285.12	32° 8' 37.196 N	103° 33' 40.712 W
13,200.0	90.00	179.66	10,042.0	-3,043.7	1,488.8	416,757.62	780,285.71	32° 8' 36.207 N	103° 33' 40.713 W
13,300.0	90.00	179.66	10,042.0	-3,143.7	1,489.4	416,657.62	780,286.29	32° 8' 35.217 N	103° 33' 40.715 W
13,400.0	90.00	179.66	10,042.0	-3,243.7	1,490.0	416,557.62	780,286.88	32° 8' 34.228 N	103° 33' 40.716 W
13,500.0	90.00	179.66	10,042.0	-3,343.7	1,490.6	416,457.63	780,287.46	32° 8' 33.238 N	103° 33' 40.718 W
13,600.0	90.00	179.66	10,042.0	-3,443.7	1,491.2	416,357.63	780,288.05	32° 8' 32.248 N	103° 33' 40.720 W
13,700.0	90.00	179.66	10,042.0	-3,543.7	1,491.8	416,257.64	780,288.63	32° 8' 31.259 N	103° 33' 40.721 W
13,800.0	90.00	179.66	10,042.0	-3,643.7	1,492.4	416,157.64	780,289.22	32° 8' 30.269 N	103° 33' 40.723 W
13,900.0	90.00	179.66	10,042.0	-3,743.7	1,492.9	416,057.65	780,289.80	32° 8' 29.280 N	103° 33' 40.724 W
14,000.0	90.00	179.66	10,042.0	-3,843.6	1,493.5	415,957.65	780,290.39	32° 8' 28.290 N	103° 33' 40.726 W
14,100.0	90.00	179.66	10,042.0	-3,943.6	1,494.1	415,857.65	780,290.97	32° 8' 27.301 N	103° 33' 40.727 W
14,200.0	90.00	179.66	10,042.0	-4,043.6	1,494.7	415,757.66	780,291.56	32° 8' 26.311 N	103° 33' 40.729 W
14,300.0	90.00	179.66	10,042.0	-4,143.6	1,495.3	415,657.66	780,292.14	32° 8' 25.322 N	103° 33' 40.730 W
14,400.0	90.00	179.66	10,042.0	-4,243.6	1,495.9	415,557.67	780,292.72	32° 8' 24.332 N	103° 33' 40.732 W
14,500.0	90.00	179.66	10,042.0	-4,343.6	1,496.5	415,457.67	780,293.31	32° 8' 23.343 N	103° 33' 40.733 W
14,600.0	90.00	179.66	10,042.0	-4,443.6	1,497.0	415,357.68	780,293.89	32° 8' 22.353 N	103° 33' 40.735 W
14,700.0	90.00	179.66	10,042.0	-4,543.6	1,497.6	415,257.68	780,294.48	32° 8' 21.364 N	103° 33' 40.736 W
14,800.0	90.00	179.66	10,042.0	-4,643.6	1,498.2	415,157.69	780,295.06	32° 8' 20.374 N	103° 33' 40.738 W
14,900.0	90.00	179.66	10,042.0	-4,743.6	1,498.8	415,057.69	780,295.65	32° 8' 19.385 N	103° 33' 40.740 W
15,000.0	90.00	179.66	10,042.0	-4,843.6	1,499.4	414,957.69	780,296.23	32° 8' 18.395 N	103° 33' 40.741 W
15,100.0	90.00	179.66	10,042.0	-4,943.6	1,500.0	414,857.70	780,296.82	32° 8' 17.406 N	103° 33' 40.743 W
15,182.1	90.00	179.66	10,042.0	-5,025.7	1,500.4	414,775.60	780,297.30	32° 8' 16.593 N	103° 33' 40.744 W

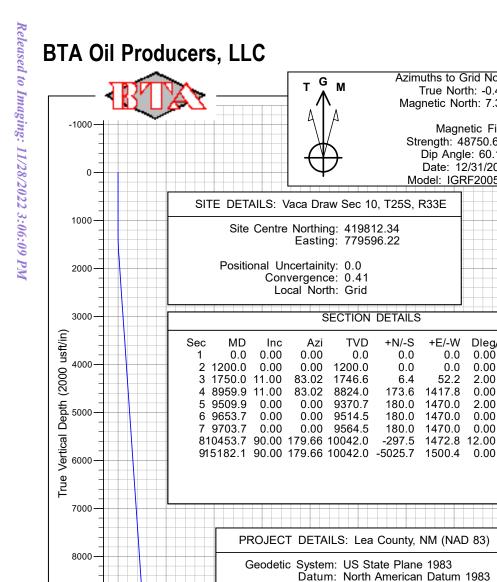


Microsoft Planning Report - Geographic



Database: Company: Project: Site: Well: Wellbore: Design:	EDM16 BTA Oil Producers, LLC Lea County, NM (NAD 83) Vaca Draw Sec 10, T25S, R33E Vaca Draw #44H Wellbore #1 Design #1				TVD Reference: GL @ MD Reference: GL @ North Reference: Grid			ca Draw #44H 422.0usft 422.0usft m Curvature	
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
Vaca Draw #44H BHL - plan hits target ce - Point	0.00 enter	0.00	10,042.0	-5,025.7	1,500.4	414,775.60	780,297.30	32° 8' 16.593 N	103° 33' 40.744 W

8/10/2022 9:20:37AM



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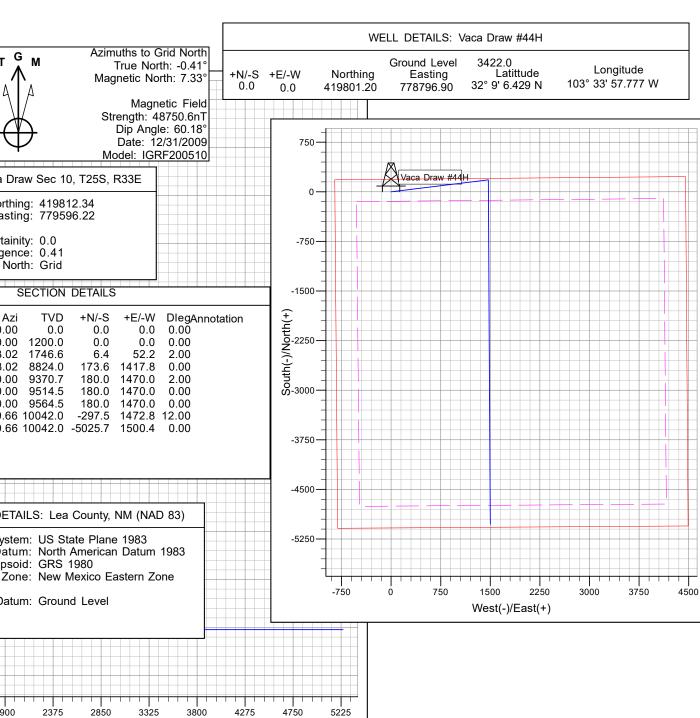
2850

Vertical Section at 163.38° (950 usft/in)

3325

System Datum: Ground Level

1900



Received by OCD: 11/21/2022 1:17:35 PM

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	BTA OIL PRODUCERS LLC
LEASE NO.:	NMNM97153
WELL NAME & NO.:	VACA DRAW 9418 10 FEDERAL 44H
SURFACE HOLE FOOTAGE:	200'/N & 840'/W
BOTTOM HOLE FOOTAGE	50'/S & 2310'/W
LOCATION:	Section 10, T.25 S., R.33 E., NMPM
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	• Flex Hose	C Other
Wellhead	Conventional	C Multibowl	Soth
Other	4 String Area	Capitan Reef	□ WIPP
Other	Fluid Filled	Cement Squeeze	Pilot Hole
Special Requirements	□ Water Disposal	СОМ	🗖 Unit

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated 500 feet prior to drilling into the undesignated formation in a wildcat pool. As a result, the Hydrogen Sulfide area must meet Onshore Order 6 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

Casing Design:

- 1. The **13-3/8** inch surface casing shall be set at approximately **1,165** feet (a minimum of **25 feet (Lea County)** into the Rustler Anhydrite and above the salt) 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 $\underline{\mathbf{8}}$ <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.

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, which shall be set at approximately **5,127** feet is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above.
- 3. The minimum required fill of cement behind the 5-1/2 inch production casing is:
 - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

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.

Option 1:

- a. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **2000** (**2M**) psi.
- b. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the intermediate casing shoe shall be **3000** (**3M**) psi.

Option 2:

- 1. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the 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 OOGO2.III.A.2.i must be followed.

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 Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (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

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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 2nd 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 Onshore Oil and Gas Order No. 2 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.
- 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.

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- 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

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
- 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:

- 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 OOGO2.III.A.2.i 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 when specified), 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 plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time, except the casing pressure test can be initiated immediately after bumping the plug (only applies to single stage cement jobs).
 - c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 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 Onshore Order No. 2.

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.

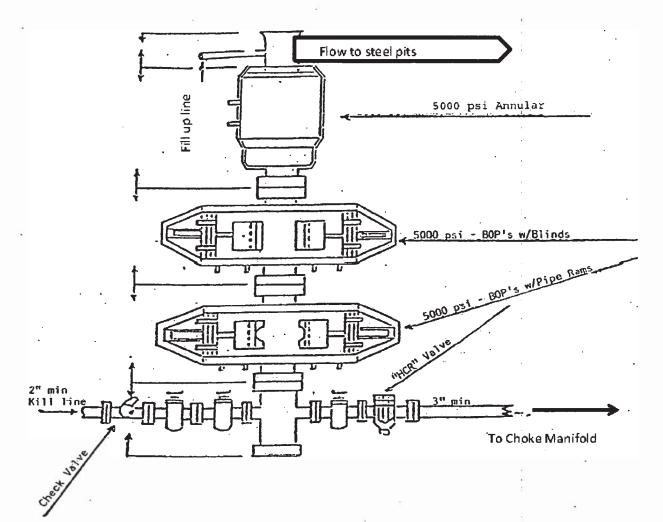
D. WASTE MATERIAL AND FLUIDS

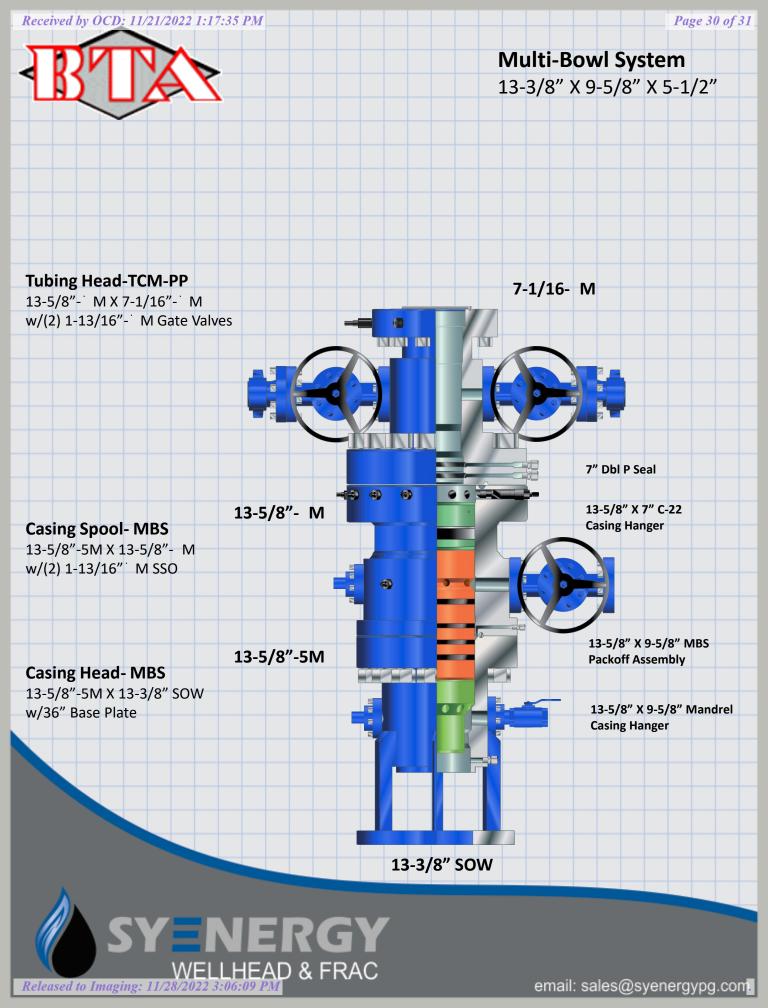
All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location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

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

OTA10172022

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	160477
	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	11/28/2022
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	11/28/2022
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	11/28/2022
pkautz	Cement is required to circulate on both surface and intermediate1 strings of casing	11/28/2022

CONDITIONS

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Action 160477