Form 3160-3 (June 2015)			OMB N	APPROVED o. 1004-0137 anuary 31, 2018				
UNITED STATES DEPARTMENT OF THE I BUREAU OF LAND MAN	NTERIOR	-	5. Lease Serial No.6. If Indian, Allotee or Tribe Name					
APPLICATION FOR PERMIT TO D								
	EENTER		7. If Unit or CA Ag	reement, Name and No.				
	ingle Zone	Multiple Zone	8. Lease Name and	Well No. [327302]				
2. Name of Operator [260297]			9. API Well No.	30-025-49792				
3a. Address	3b. Phone N	o. (include area code)	10. Field and Pool,	or Exploratory [97293] XX SOUTH				
 4. Location of Well (<i>Report location clearly and in accordance v</i> At surface At proposed prod. zone 	with any State	requirements.*)	11. Sec., T. R. M. of	r Blk. and Survey or Area				
14. Distance in miles and direction from nearest town or post offi	ice*		12. County or Paris	h 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 ac	res in lease 17. Space	ing Unit dedicated to t	his well				
 Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 	19. Proposed	d Depth 20, BLN	I/BIA Bond No. in file					
21. Elevations (Show whether DF, KDB, RT, GL, etc.)		mate date work will start*	23. Estimated durat	ion				
	24. Attac							
The following, completed in accordance with the requirements of (as applicable)	f Onshore Oil	and Gas Order No. 1, and the	Hydraulic Fracturing r	ule per 43 CFR 3162.3-3				
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest System SUPO must be filed with the appropriate Forest Service Office 		 Bond to cover the operation Item 20 above). Operator certification. Such other site specific info BLM. 		-				
25. Signature	Name	(Printed/Typed)		Date				
Title	l							
Approved by (Signature)	Name	(Printed/Typed)		Date				
Title Application approval does not warrant or certify that the applicar applicant to conduct operations thereon. Conditions of approval, if any, are attached.	Office nt holds legal of		s in the subject lease w	hich would entitle the				
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, n of the United States any false, fictitious or fraudulent statements				any department or agency				
NGMP Rec 02/21/2022		TH CONDITIONS	للار 02/23	Z 3/2022				
NSL	VED WI	III COMPLETE	REQUIR	ES NSL				
(Continued on page 2)		02/11/2022	*(In	structions on page 2)				

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 DISTRICT I
 St

 1623 N. French Dr., Hobbs. NM 88240
 Phone: (573) 393-6161 Fax: (575) 393-0720
 Energy, Minerals

 DISTRICT II
 STI S. First St., Artesia, NM 88210
 OIL CON

 Phone: (575) 748-1283 Fax: (575) 7489720
 OIL CON

 DISTRICT III
 12200

 1000 Rio Brazos Road, Aztec, NM 87410
 12200

 Phone: (505) 334-6178 Fax: (505) 334-6170
 Santa

 DISTRICT IV
 12200 S. St. Francis Dr., Santa Fe, NM 87505

 Phone: (505) 476-3460 Fax: (505) 476-3462
 WELL LOCATION A

 API Number
 Pool Code

 30-025-49792
 97293

 Property Code
 327302

 NORTH RI
 OGRID No.

 260297
 BTA C

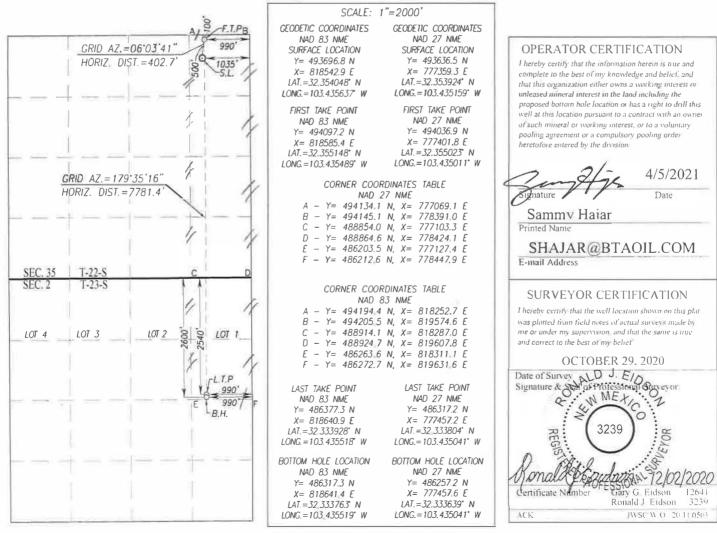
State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, New Mexico 87505

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

DAMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

A	PI Number			Pool Code		Pool Name									
30-025	-49792		97	97293 OJO CHISO;BONE SP						RING, SOUTH					
Property Code 327302			Property Name NORTH RIDGE 8040 FEDERAL COM						RAL COM 9H						
OGRID N 26029				BTA O	Operator Nam				Elevation 3407'						
					Surface Locati	on									
UL or lot No	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/\	West line	County					
А	35	22-S	34-E		500	NORTH	1035	E	AST	LEA					
				Bottom Hol	e Location If Diffe	rent From Surface									
UL or lot No	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the Eas		West line	County					
Н	2	23-S	34-E		2600	NORTH	990	E	AST	LEA					
Dedicated Acres 240	Joint or	Infill	Consolidation C	Code Ord	er No										



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PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	BTA Oil Producers LLC
LEASE NO.:	NMNM26396
WELL NAME & NO.:	North Ridge 8040 Federal Com 9H
SURFACE HOLE FOOTAGE:	500'/N & 1035'/E
BOTTOM HOLE FOOTAGE	2600'/N & 990'/E
LOCATION:	Section 35, T.22 S., R.34 E., NMPM
COUNTY:	Lea County, New Mexico

COA

H2S	O Yes	• No	
Potash	None	Secretary	© R-111-P
Cave/Karst Potential	• Low	O Medium	O High
Cave/Karst Potential	Critical		
Variance	O None	Flex Hose	O Other
Wellhead	Conventional	Multibowl	O Both
Other	□4 String Area	Capitan Reef	□ WIPP
Other	Fluid Filled	Cement Squeeze	Pilot Hole
Special Requirements	□ Water Disposal	COM	🗆 Unit

A. HYDROGEN SULFIDE

Hydrogen Sulfide (H2S) monitors shall be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, 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 **1,807** 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.
- 2. The **9-5/8** inch intermediate casing shall be set at approximately **3,880** feet. The minimum required fill of cement behind the **9-5/8** inch intermediate casing is:

Option 1 (Single Stage):

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

Option 2:

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 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.
- 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:
 (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. If cement does not circulate see B.1.a, c-d above.

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

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

- The operator will submit a Communitization Agreement to the Carlsbad Field Office, 620 E Greene St. Carlsbad, New Mexico 88220, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. <u>When the Communitization Agreement number is known, it shall also be on the sign.</u>

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) 393-3612
- 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

Page 4 of 8

- 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.

- 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.

Page 6 of 8

- 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.

OTA02022022



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

Page 11 of 64 Operator Certification Data Report

02/14/2022

Operator Certification

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

NAME: Sammy Hajar		Signed on: 04/12/2021
Title: Regulatory Analyst		
Street Address: 104 S. I	Pecos	
City: Midland	State: TX	Zip: 79701
Phone: (432)682-3753		
Email address: shajar@	btaoil.com	
Field Represe	entative	
Representative Name:		
Street Address:		
City:	State:	Zip:
Phone:		
Email address:		

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WAFMSS

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

APD ID: 10400072963

Operator Name: BTA OIL PRODUCERS LLC Well Name: NORTH RIDGE 8040 FEDERAL COM Well Type: OIL WELL Submission Date: 04/12/2021

Well Number: 9H Well Work Type: Drill Highlighted data reflects the most recent changes

Show Final Text

Section 1 - General

APD ID: 10400072963	Tie to previous NOS?	Submission Date: 04/12/2021				
BLM Office: Carlsbad	User: Sammy Hajar	Title: Regulatory Analyst				
Federal/Indian APD: FED	Is the first lease penetra	ted for production Federal or Indian? FED				
Lease number: NMNM26396	Lease Acres:					
Surface access agreement in place?	Allotted?	Reservation:				
Agreement in place? NO	Federal or Indian agreement:					
Agreement number:						
Agreement name:						
Keep application confidential? Y						
Permitting Agent? NO	APD Operator: BTA OIL PRODUCERS LLC					
Operator letter of designation:						

Operator Info

Operator Organization Name: BTA	OIL PRODUCERS LLC	
Operator Address: 104 S. Pecos		7in: 70701
Operator PO Box:		Zip: 79701
Operator City: Midland	State: TX	
Operator Phone: (432)682-3753		
Operator Internet Address:		

Section 2 - Well Information

Well in Master Development Plan? NO	Master Development Plan	name:
Well in Master SUPO? NO	Master SUPO name:	
Well in Master Drilling Plan? NO	Master Drilling Plan name:	
Well Name: NORTH RIDGE 8040 FEDERAL COM	Well Number: 9H	Well API Number:
Field/Pool or Exploratory? Field and Pool	Field Name: ojo chiso	Pool Name: Bone Spring North
Is the proposed well in an area containing other min	neral resources? NONE	



Well Name: NORTH RIDGE 8040 FEDERAL COM

Well Number: 9H

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Is the proposed well in an area containing other mineral resources? NONE

Is the proposed well in a Helium prod	uction area? N	Use Existing Well Pad? Y	New surface disturbance? N
Type of Well Pad: MULTIPLE WELL		Multiple Well Pad Name:	Number: 3H, 4H, 7H, 8H, 9H, &
Well Class: HORIZONTAL		NORTH RIDGE 8040 FEDERAL COM Number of Legs: 1	10H
Well Work Type: Drill			
Well Type: OIL WELL			
Describe Well Type:			
Well sub-Type: INFILL			
Describe sub-type:			
Distance to town:	Distance to ne	arest well: 203 FT Distant	ce to lease line: 500 FT
Reservoir well spacing assigned acre	s Measurement	: 240 Acres	
Well plat: Signed_North_Ridge_9H_	_C102_20210412	145033.pdf	
Well work start Date: 09/11/2021		Duration: 30 DAYS	

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83

Survey number:

Vertical Datum: NGVD29

Reference Datum: GROUND LEVEL

Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD	Will this well produce from this lease?
SHL Leg #1	500	FNL	103 5	FEL	22S	34E		Aliquot NENE	32.35404 8	- 103.4356 37	LEA	1	NEW MEXI CO	F	NMNM 26396	340 7	0	0	Y
KOP Leg #1	100	FNL	990	FEL	22S	34E		Aliquot NENE	32.35514 8	- 103.4354 89	LEA	NEW MEXI CO			NMNM 26396	- 632 2		972 9	Y

Well Name: NORTH RIDGE 8040 FEDERAL COM

Well Number: 9H

Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD	Will this well produce from this lease?
PPP	100	FNL	990	FEL	22S	34E	35	Aliquot	32.35514	-	LEA		NEW	F	NMNM	-	101	101	Y
Leg								NENE		103.4354			MEXI		26396	671	82	22	
#1-1										89		со	со			5			
EXIT	254	FNL	990	FEL	22S	34E	2	Aliquot	32.33392	-	LEA	NEW	NEW	S	STATE	-	176	102	Y
Leg	0							SENE	8	103.4355			MEXI			680	14	07	
#1										18		со	CO			0			
BHL	260	FNL	990	FEL	23S	34E	2	Aliquot	32.33376	-	LEA	NEW	NEW	S	STATE	-	178	102	Y
Leg	0							SENE	3	103.4355			MEXI			680	94	07	
#1										19		CO	со			0			

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AFMSS

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

APD ID: 10400072963

Operator Name: BTA OIL PRODUCERS LLC

Well Name: NORTH RIDGE 8040 FEDERAL COM

Well Type: OIL WELL

Submission Date: 04/12/2021

Well Number: 9H

Well Work Type: Drill

Section 1 - Geologic Formations

Formation			True Vertical	Measured			Producing
ID	Formation Name	Elevation	Depth	Depth	Lithologies	Mineral Resources	Formation
3659252	QUATERNARY	3407	0	0	ALLUVIUM	NONE	N
3659253	RUSTLER	1625	1782	1782	ANHYDRITE	NONE	N
3659254	TOP SALT	1275	2132	2132	SALT	NONE	N
3659255	BASE OF SALT	75	3332	3332	SALT	NONE	N
8024369	CAPITAN REEF	-805	4212	4212	LIMESTONE, SHALE	NONE	N
3659256	DELAWARE	-2225	5632	5632	LIMESTONE	NATURAL GAS, OIL	N
3659265	BELL CANYON	-2285	5692	5692	SANDSTONE	NATURAL GAS, OIL	N
3659258	CHERRY CANYON	-2935	6342	6342	SANDSTONE	NATURAL GAS, OIL	N
3659259	BRUSHY CANYON	-3795	7202	7202	SANDSTONE	NATURAL GAS, OIL	N
3659260	BONE SPRING LIME	-5175	8582	8582	LIMESTONE	NATURAL GAS, OIL	N
3659274	FIRST BONE SPRING SAND	-6235	9642	9642	SANDSTONE	NATURAL GAS, OIL	N
3659277	BONE SPRING 2ND	-6775	10182	10182	SANDSTONE	NATURAL GAS, OIL	Y

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M

Rating Depth: 12000

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.

Highlighted data reflects the most

recent changes

Show Final Text



Well Name: NORTH RIDGE 8040 FEDERAL COM

Well Number: 9H

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

L Casing ID	String Type	Hole Size	ezis Size 13.375	A Condition	년 Standard	Z Tapered String	^o Top Set MD	Bottom Set MD 1775	^o Top Set TVD	Bottom Set TVD	Top Set MSL 3402	1632	Calculated casing fength MD	Grade	24.5 Weight	Joint Type	1.5 Collapse SF	9.6 Burst SF	Joint SF Type	S Joint SF	A Body SF Type	8.8 Body SF
2	INTERMED IATE	12.2 5	9.625	NEW	API	N	0	5644	0	5612	3419	-2205	5644	J-55	40	LT&C	1.5	1.4	DRY	2.3	DRY	2.8
3	PRODUCTI ON	8.75	5.5	NEW	API	N	0	17894	0	10207	3419	-6800	17894	P- 110	17	BUTT	1.5	2.1	DRY	1.9	DRY	1.8

Casing Attachments

Received by OCD: 2/21/2022 12:13:43 PM

Operator Name: BTA OIL PRODUCERS LLC

Well Name: NORTH RIDGE 8040 FEDERAL COM

Well Number: 9H

Casing Attachments

Casing ID: 1 String Type: SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

North_Ridge_9H_Casing_assumption_20210412150156.JPG

Casing ID: 2 String Type:INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

North_Ridge_9H_Casing_assumption_20210412150256.JPG

Casing ID: 3 String Type: PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

North_Ridge_9H_Casing_assumption_20210412150349.JPG

Section 4 - Cement

Well Name: NORTH RIDGE 8040 FEDERAL COM

Well Number: 9H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	1140	1160	1.73	13.5	2006. 8	100	Class C	2% CaCl2
SURFACE	Tail		1440	1775	340	1.35	14.8	459	100	Class C	2% CaCl2
INTERMEDIATE	Lead	4062	0	3505	1035	2.46	12.8	2546. 1	100	Class C	0.5% CaCl2
INTERMEDIATE	Tail		3505	4062	200	1.34	14.8	268	25	Class C	1% CaCl2
INTERMEDIATE	Lead		4062	5085	1500	2.46	12.8	3690	100	Class C	0.5% CaCl2
INTERMEDIATE	Tail		5085	5644	200	1.34	14.8	268	25	Class C	1% CaCl2
PRODUCTION	Lead		4644	9760	495	3.9	10.5	1930. 5	60	25% Poz 75% Class C	0.4% Fluid Loss
PRODUCTION	Tail		9760	1789 4	2055	1.25	14.4	2568. 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 (Ibs/cu ft)	Gel Strength (lbs/100 sqft)	НА	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	1775	OTHER : FW SPUD	8.3	8.4							

Well Name: NORTH RIDGE 8040 FEDERAL COM

Well Number: 9H

Lop Depth 1222	Bottom Depth	OTHER : Brine	01 Min Weight (Ibs/gal)	01 Max Weight (lbs/gal)	Density (Ibs/cu ft)	Gel Strength (lbs/100 sqft)	Hd	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
5612	1020 7	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: 4989

Anticipated Surface Pressure: 2743

Anticipated Bottom Hole Temperature(F): 162

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

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards attachment:

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations plan:

BTA_Oil_Producers_LLC___EMERGENCY_CALL_LIST_20190723161502.pdf H2S_Equipment_Schematic_20190723161502.pdf H2S_Plan_20190723161502.pdf

Well Name: NORTH RIDGE 8040 FEDERAL COM

Well Number: 9H

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

North_Ridge_9H_Gas_Capture_Plan_20210412150933.pdf North_Ridge_09H_directional_plan_20210412150947.pdf North_Ridge_09H_Wall_plot_20210412150947.pdf

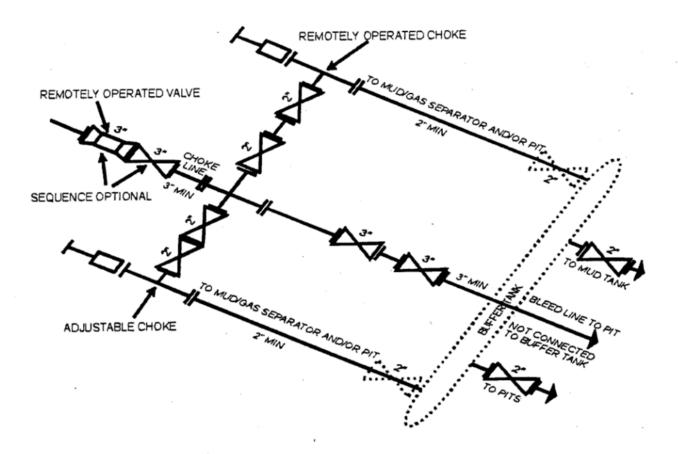
Other proposed operations facets description:

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



5M CHOKE MANIFOLD EQUIPMENT - CONFIGURATION OF CHOKES MAY VARY

Although not required for any of the choke manifold systems, buffer tanks are sometimes installed downstream of the choke assemblies for the purpose of manifolding the bleed lines together. When buffer tanks are employed, valves shall be installed upstream to isolate a failure or malfunction without interrupting flow control. Though not shown on 2M, 3M, 10M, OR 15M drawings, it would also be applicable to those situations.

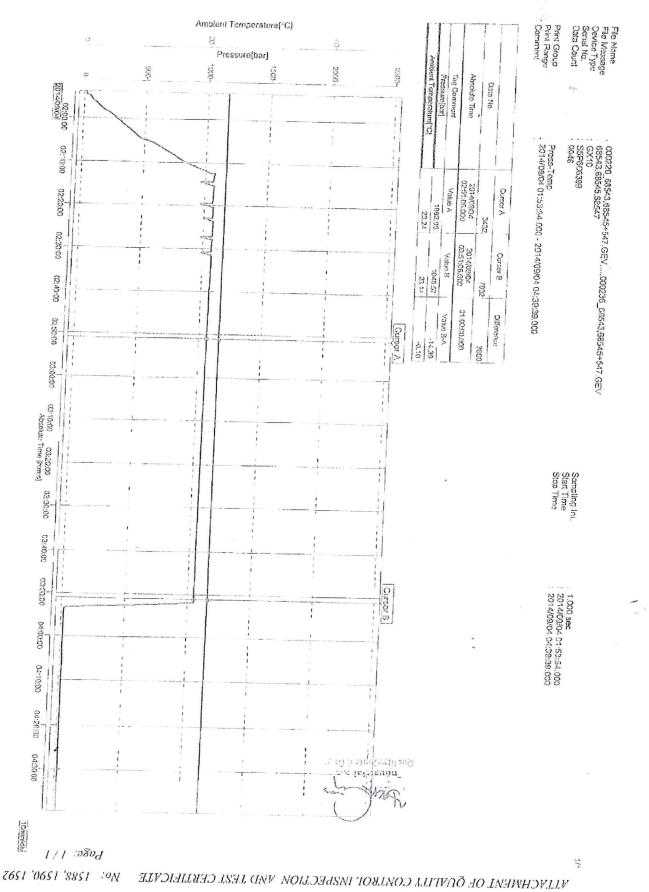
[54 FR 39528, Sept. 27, 1989]

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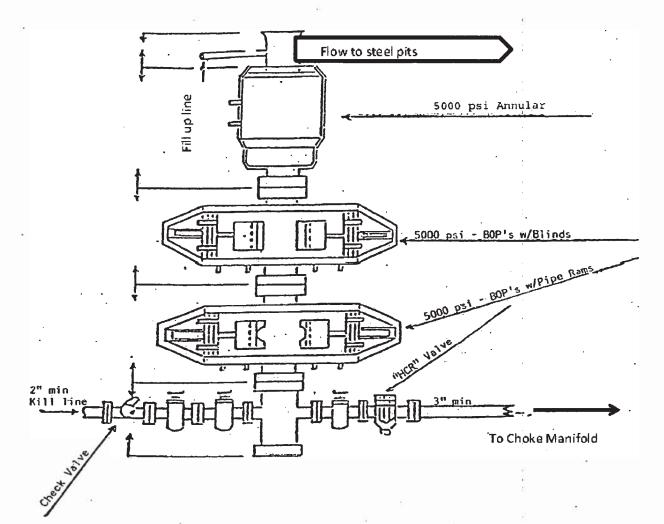
	Contifiech			TITECI Industri		1	No:QC- Page:	DB- 599/ 16 / 17	California and a sub-street and
Rig 94	ni r s tantot de Atomo (or 1911 stat	17 200 10 10 10 10 10 10	27 40 40 1 40 A 1	a de Francisco e da	9	1226	7	244	<u>65</u>
	ITY CONT		RTIFIC	CATE		CERT. N	la:	1592	2
PURCHASER:	ContiTech (Dil & Ma	arine C	orp.	***********	P.O. N°:	_ 01546-05.5019_00020.51234	4500461	1753
CONTITECH ORDER N°:	539225	HOSE	TYPE:	3"	ID		Choke	& Kill Hose	9
HOSE SERIAL Nº:	68547	NOMIN	VAL / AC	TUAL LE	NGTH:		7,62 m	/ 7,66 m	
W.P. 68,9 MPa	10000 psi	T.P.	103,4	MPa	1500	10 psi	Duration:	60	min.
		'See	attach	ment. (1 pa	ge)			
→ 10 Min									
↑ 50 мг	2a		Seriel		33 dagar 1 pilo	שא ניבוס נודר ב	- slitv	Hea	f N°
	Pa /pe th	257	Serial 74			Qua AISI AISI AISI	1130 1130	Hea A1582N 588 A1199N	H8672
↑ 50 MF COUPLINGS Ty 3" coupling wil 4 1/16" 10K API Swivet Hub Not Designed For V Fire Rated All metal parts are flawless WE CERTIFY THAT THE ABOV	Pa /pe th Flange end Well Testin Well Testin	9 En manu	74 JFACTUR	N° 5533 RED IN AC	CORDA	Qua AISI / AISI / AISI /	4130 4130 4130 7 Tem	A1582N 588 A1199N API Spec sperature	H8672 855 A1423N 16 C rate:"B"
↑ 50 MF COUPLINGS Ty 3" coupling will 4 1/16" 10K API Swivel Hub Not Designed For 1 Fire Rated All metal parts are flawless	Pa /pe th Flange end Well Testin Well Testin (FE HOSE HAS BE TESTED AS ABO ITY: We hereby of of the shove Purc	2) EN MANL VE WITH certify that haser Ord	74 IFACTUR SATISFA t the abov der and th	N° 5533 RED IN AC CTORY R e items/eq at these ite	CORDA ESULT. uipment	Quz AISI / AISI / AISI / NGE WITH supplied I	4130 4130 4130 Tem I THE TERM	A1582N 588 A1199N API Spec operature ts of the or conformity with inspected and	H8672 A1423N 16 C rate:"B" RDER the terms, the terms, thested in

ContrEct: Rubber Industrial KII, | Budapasti úl 10. H. 6728 Szeged | H-6701 P.O.Box 152 Szagad, Hungsty Phone: ISB 67 565 737 [Fax: +55 62 555 738] e-ms8 info@fbud conthets htt | Internet: www.contracth.rufber.nu. www.contracth.hu The Court of Osongrád County as Registry Court [Registry Court No. Cg: 08 69 602502 | Fill VAT No. FU11087209 Bonk cats Commerzband. Zitt., Budapast | 14220106-26803003



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13-5/8" 5,000 PSI BOP



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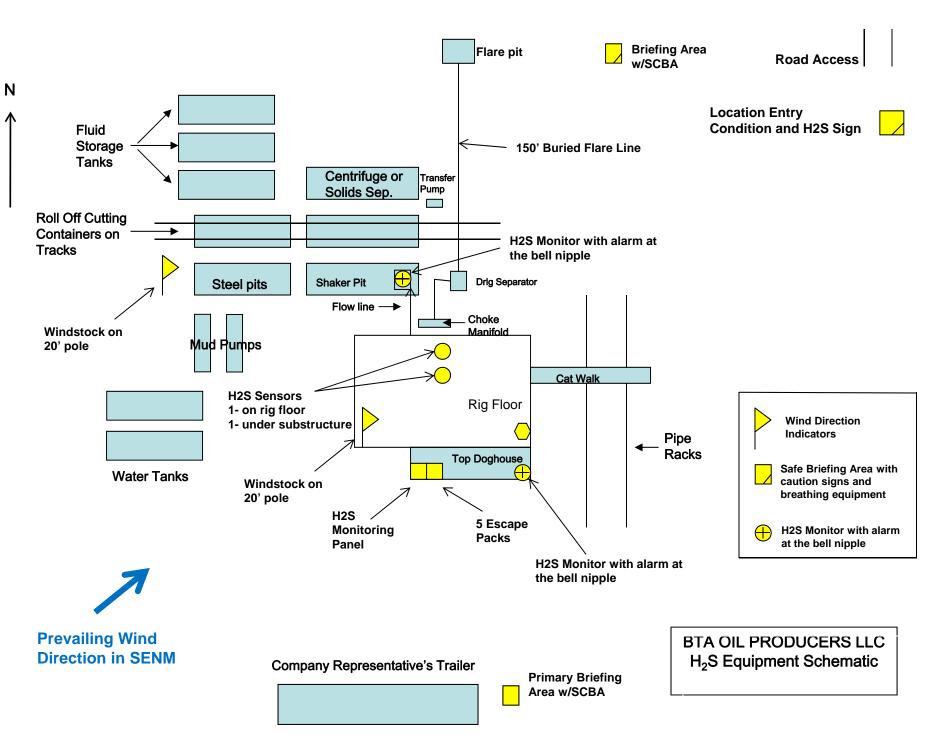
EMERGENCY CALL LIST

	OFFICE	MOBILE
BTA Oil Producers LLC OFFICE	432-682-3753	
BEN GRIMES, Operations	432-682-3753	432-559-4309
NICK EATON, Drilling	432-682-3753	432-260-7841
TRACE WOHLFAHRT, Completions	432-682-3753	

EMERGENCY RESPONSE NUMBERS

	OFFICE
STATE POLICE	575-748-9718
EDDY COUNTY SHERIFF	575-746-2701
EMERGENCY MEDICAL SERVICES (AMBULANCE)	911 or 575-746-2701
EDDY COUNTY EMERGENCY MANAGEMENT (HARRY BURGESS)	575-887-9511
STATE EMERGENCY RESPONSE CENTER (SERC)	575-476-9620
CARLSBAD POLICE DEPARTMENT	575-885-2111
CARLSBAD FIRE DEPARTMENT	575-885-3125
NEW MEXICO OIL CONSERVATION DIVISION	575-748-1283
INDIAN FIRE & SAFETY	800-530-8693
HALLIBURTON SERVICES	800-844-8451





BTA OIL PRODUCERS LLC

HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

1. <u>HYDROGEN SULFIDE TRAINING</u>

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

- a. The hazards and characteristics of hydrogen sulfide (H₂S).
- b. The proper use and maintenance of personal protective equipment and life support systems.
- c. The proper use of H₂S detectors, alarms, warning systems, briefing areas, evacuation procedures, and prevailing winds.
- d. The proper techniques for first aid and rescue procedures.

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

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

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

2. <u>H₂S SAFETY EQUIPMENT AND SYSTEMS</u>

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

Well Control Equipment:
Flare line.
Choke manifold with remotely operated choke.
Blind rams and pipe rams to accommodate all pipe sizes with properly sized closing unit.
Auxiliary equipment to include: annular preventer, mud-gas separator, rotating head.
Protective equipment for essential personnel:

- Protective equipment for essential personnel: Mark II Surviveair 30-minute units located in the dog house and at briefing areas.
- c. H2S detection and monitoring equipment:

a.

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

- Visual warning systems:
 Caution/Danger signs shall be posted on roads providing direct access to location. Signs will be painted a high visibility yellow with black lettering of sufficient size to be readable at a reasonable distance from the immediate location. Bilingual signs will be used, when appropriate. See example attached.
- e. Mud Program: The mud program has been designed to minimize the volume of H2S circulated to the surface.
- f. Metallurgy: All drill strings, casings, tubing, wellhead, blowout preventers, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H2S service.
- g. Communication: Company vehicles equipped with cellular telephone.

WARNING

YOU ARE ENTERING AN H₂S AREA AUTHORIZED PERSONNEL ONLY

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

BTA OIL PRODUCERS LLC

1-432-682-3753

BTA Oil Producers, LLC

Lea County, NM (NAD 83) North Ridge North Ridge #9H

Wellbore #1

Plan: Design #1

Standard Planning Report - Geographic

07 April, 2021

Microsoft Planning Report - Geographic

Database: Company: Project: Site: Well: Wellbore: Design:	EDM16 BTA Oil Produ Lea County, N North Ridge North Ridge # Wellbore #1 Design #1	IM (NAD 83)		TVD Referen MD Reference North Reference	e:		7.0usft (Ori 7.0usft (Ori	iginal Well Elev) iginal Well Elev)	
Project	Lea County, NM	M (NAD 83), Le	ea County, NM						
Geo Datum:	US State Plane ² North American I New Mexico Eas	Datum 1983		System Datun	1:	Ground Level Using geodetic s	scale factor	r	
Site	North Ridge								
Site Position: From: Position Uncertainty:	Мар	0.0 usft	Northing: Easting: Slot Radius:	815,680	2.00 usft Latitud 0.00 usft Longit 5/16 "			32° 21' 16. 103° 26' 41.(
Well	North Ridge #9	Н							
Well Position Position Uncertainty Grid Convergence:	+N/-S +E/-W	0.0 usft 0.0 usft 0.0 usft 0.48 °	Northing: Easting: Wellhead Elev		493,696.80 usft 818,542.90 usft usft	Latitude: Longitude: Ground Level:		32° 21' 14 103° 26' 8. 3,407	
Wellbore	Wellbore #1								
Magnetics	Model Nan	ne	Sample Date	Declinatio (°)	n	Dip Angle (°)	F	Field Strength (nT)	
	IGRF2	00510	12/31/2009		7.70	60.39		48,887.39172525	
Design	Design #1								
Audit Notes: Version:			Phase:	PROTOTYPE	Tie On De	pth:	0.0		
Vertical Section:		(u	rom (TVD) sft)).0	+N/-S (usft) 0.0	+E/-W (usft) 0.0)irection (°) 179.24		
Plan Survey Tool Pro	gram	Date 4/7/20	021						
Depth From (usft)	Depth To (usft) S	Survey (Wellbo	ore)	Tool Name	Rem	arks			
1 0.0	17,894.2 E	Design #1 (We	llbore #1)						

Page 2

Microsoft

Database:	EDM16	Local Co-ordinate Reference:	Well North Ridge #9H
Company:	BTA Oil Producers, LLC	TVD Reference:	WELL @ 3407.0usft (Original Well Elev)
Project:	Lea County, NM (NAD 83)	MD Reference:	WELL @ 3407.0usft (Original Well Elev)
Site:	North Ridge	North Reference:	Grid
Well:	North Ridge #9H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Plan Sections

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,400.0	8.00	5.36	2,398.7	27.8	2.6	2.00	2.00	0.00	5.36	
5,463.4	8.00	5.36	5,432.3	452.2	42.4	0.00	0.00	0.00	0.00	
5,863.4	0.00	0.00	5,831.0	480.0	45.0	2.00	-2.00	0.00	180.00	
9,711.9	0.00	0.00	9,679.5	480.0	45.0	0.00	0.00	0.00	0.00	
9,761.9	0.00	0.00	9,729.5	480.0	45.0	0.00	0.00	0.00	0.00	
10,511.9	90.00	179.61	10,207.0	2.5	48.3	12.00	12.00	0.00	179.61	
17,894.2	90.00	179.61	10,207.0	-7,379.5	98.5	0.00	0.00	0.00	0.00	North Ridge #9H E

	Database:	EDM16	Local Co-ordinate Reference:	Well North Ridge #9H
	Company:	BTA Oil Producers, LLC	TVD Reference:	WELL @ 3407.0usft (Original Well Elev)
1	Project:	Lea County, NM (NAD 83)	MD Reference:	WELL @ 3407.0usft (Original Well Elev)
	Site:	North Ridge	North Reference:	Grid
1	Well:	North Ridge #9H	Survey Calculation Method:	Minimum Curvature
1	Wellbore:	Wellbore #1		
	Design:	Design #1		

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
									_
0.0	0.00	0.00	0.0	0.0	0.0	493,696.80	818,542.90	32° 21' 14.574 N	103° 26' 8.293 W
100.0	0.00	0.00	100.0	0.0	0.0	493,696.80	818,542.90	32° 21' 14.574 N	103° 26' 8.293 W
200.0	0.00	0.00	200.0	0.0	0.0	493,696.80	818,542.90	32° 21' 14.574 N	103° 26' 8.293 W
300.0 400.0	0.00	0.00 0.00	300.0 400.0	0.0	0.0	493,696.80	818,542.90	32° 21' 14.574 N	103° 26' 8.293 W 103° 26' 8.293 W
400.0 500.0	0.00 0.00	0.00	400.0 500.0	0.0 0.0	0.0	493,696.80	818,542.90	32° 21' 14.574 N	
600.0					0.0	493,696.80	818,542.90	32° 21' 14.574 N 32° 21' 14.574 N	103° 26' 8.293 W 103° 26' 8.293 W
700.0	0.00 0.00	0.00 0.00	600.0 700.0	0.0 0.0	0.0	493,696.80 493,696.80	818,542.90		103° 26' 8.293 W
800.0	0.00	0.00	800.0	0.0	0.0 0.0	493,696.80	818,542.90 818,542.90	32° 21' 14.574 N 32° 21' 14.574 N	103°26'8.293 W
900.0	0.00	0.00	900.0	0.0	0.0	493,696.80	818,542.90	32° 21' 14.574 N	103° 26' 8.293 W
1,000.0	0.00	0.00	1,000.0	0.0	0.0	493,696.80	818,542.90	32° 21' 14.574 N	103° 26' 8.293 W
1,100.0	0.00	0.00	1,000.0	0.0	0.0	493,696.80	818,542.90	32° 21' 14.574 N	103° 26' 8.293 W
1,100.0	0.00	0.00	1,100.0	0.0	0.0	493,696.80	818,542.90	32° 21' 14.574 N	103° 26' 8.293 W
1,300.0	0.00	0.00	1,200.0	0.0	0.0	493,696.80	818,542.90	32° 21' 14.574 N	103° 26' 8.293 W
1,400.0	0.00	0.00	1,400.0	0.0	0.0	493,696.80	818,542.90	32° 21' 14.574 N	103° 26' 8.293 W
1,500.0	0.00	0.00	1,500.0	0.0	0.0	493,696.80	818,542.90	32° 21' 14.574 N	103° 26' 8.293 W
1,600.0	0.00	0.00	1,600.0	0.0	0.0	493,696.80	818,542.90	32° 21' 14.574 N	103° 26' 8.293 W
1,700.0	0.00	0.00	1,700.0	0.0	0.0	493,696.80	818,542.90	32° 21' 14.574 N	103° 26' 8.293 W
1,800.0	0.00	0.00	1,800.0	0.0	0.0	493,696.80	818,542.90	32° 21' 14.574 N	103° 26' 8.293 W
1,900.0	0.00	0.00	1,900.0	0.0	0.0	493,696.80	818,542.90	32° 21' 14.574 N	103° 26' 8.293 W
2,000.0	0.00	0.00	2,000.0	0.0	0.0	493,696.80	818,542.90	32° 21' 14.574 N	103° 26' 8.293 W
2,100.0	2.00	5.36	2,100.0	1.7	0.2	493,698.54	818,543.06	32° 21' 14.591 N	103° 26' 8.291 W
2,200.0	4.00	5.36	2,199.8	6.9	0.7	493,703.75	818,543.55	32° 21' 14.643 N	103° 26' 8.285 W
2,300.0	6.00	5.36	2,299.5	15.6	1.5	493,712.43	818,544.36	32° 21' 14.728 N	103° 26' 8.275 W
2,400.0	8.00	5.36	2,398.7	27.8	2.6	493,724.56	818,545.50	32° 21' 14.848 N	103° 26' 8.260 W
2,500.0	8.00	5.36	2,497.7	41.6	3.9	493,738.42	818,546.80	32° 21' 14.985 N	103° 26' 8.244 W
2,600.0	8.00	5.36	2,596.8	55.5	5.2	493,752.27	818,548.10	32° 21' 15.122 N	103° 26' 8.227 W
2,700.0	8.00	5.36	2,695.8	69.3	6.5	493,766.13	818,549.40	32° 21' 15.259 N	103° 26' 8.211 W
2,800.0	8.00	5.36	2,794.8	83.2	7.8	493,779.99	818,550.70	32° 21' 15.396 N	103° 26' 8.194 W
2,900.0	8.00	5.36	2,893.8	97.0	9.1	493,793.84	818,552.00	32° 21' 15.533 N	103° 26' 8.178 W
3,000.0	8.00	5.36	2,992.9	110.9	10.4	493,807.70	818,553.29	32° 21' 15.670 N	103° 26' 8.161 W
3,100.0	8.00	5.36	3,091.9	124.8	11.7	493,821.55	818,554.59	32° 21' 15.807 N	103° 26' 8.145 W
3,200.0	8.00	5.36	3,190.9	138.6	13.0	493,835.41	818,555.89	32° 21' 15.944 N	103° 26' 8.128 W
3,300.0	8.00	5.36	3,289.9	152.5	14.3	493,849.27	818,557.19	32° 21' 16.081 N	103° 26' 8.112 W
3,400.0	8.00	5.36	3,389.0	166.3	15.6	493,863.12	818,558.49	32° 21' 16.218 N	103° 26' 8.095 W
3,500.0	8.00	5.36	3,488.0	180.2	16.9	493,876.98	818,559.79	32° 21' 16.355 N	103° 26' 8.079 W
3,600.0	8.00	5.36	3,587.0	194.0	18.2	493,890.84	818,561.09	32° 21' 16.492 N	103° 26' 8.062 W
3,700.0	8.00	5.36	3,686.0	207.9	19.5	493,904.69	818,562.39	32° 21' 16.629 N	103° 26' 8.046 W
3,800.0	8.00	5.36	3,785.1	221.7	20.8	493,918.55	818,563.69	32° 21' 16.766 N	103° 26' 8.029 W
3,900.0	8.00	5.36	3,884.1	235.6	22.1	493,932.41	818,564.99	32° 21' 16.903 N	103° 26' 8.013 W
4,000.0	8.00	5.36	3,983.1	249.5	23.4	493,946.26	818,566.29	32° 21' 17.040 N	103° 26' 7.996 W
4,100.0	8.00	5.36	4,082.2	263.3	24.7	493,960.12	818,567.58	32° 21' 17.177 N	103° 26' 7.980 W
4,200.0	8.00	5.36	4,181.2	277.2	26.0	493,973.98	818,568.88	32° 21' 17.314 N	103° 26' 7.963 W
4,300.0	8.00	5.36	4,280.2	291.0	27.3	493,987.83	818,570.18	32° 21' 17.451 N	103° 26' 7.947 W
4,400.0	8.00	5.36	4,379.2	304.9	28.6	494,001.69	818,571.48	32° 21' 17.588 N	103° 26' 7.930 W
4,500.0	8.00	5.36	4,478.3	318.7	29.9	494,015.55	818,572.78	32° 21' 17.725 N	103° 26' 7.914 W
4,600.0	8.00	5.36	4,577.3	332.6	31.2	494,029.40	818,574.08	32° 21' 17.862 N	103° 26' 7.897 W
4,700.0	8.00	5.36	4,676.3	346.5	32.5	494,043.26	818,575.38	32° 21' 17.999 N	103° 26' 7.881 W
4,800.0	8.00	5.36	4,775.3	360.3	33.8	494,057.12	818,576.68	32° 21' 18.136 N	103° 26' 7.864 W
4,900.0	8.00	5.36	4,874.4	374.2	35.1	494,070.97	818,577.98	32° 21' 18.273 N	103° 26' 7.848 W
5,000.0	8.00	5.36	4,973.4	388.0	36.4	494,084.83	818,579.28	32° 21' 18.410 N	103° 26' 7.831 W
5,100.0	8.00	5.36	5,072.4	401.9	37.7	494,098.68	818,580.57	32° 21' 18.547 N	103° 26' 7.815 W
5,200.0	8.00	5.36	5,171.5	415.7	39.0	494,112.54	818,581.87	32° 21' 18.684 N	103° 26' 7.798 W
5,300.0	8.00	5.36	5,270.5	429.6	40.3	494,126.40	818,583.17	32° 21' 18.821 N	103° 26' 7.782 W
5,400.0	8.00	5.36	5,369.5	443.5	41.6	494,140.25	818,584.47	32° 21' 18.958 N	103° 26' 7.765 W

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COMPASS 5000.16 Build 97

Database:	EDM16	Local Co-ordinate Reference:	Well North Ridge #9H
Company:	BTA Oil Producers, LLC	TVD Reference:	WELL @ 3407.0usft (Original Well Elev)
Project:	Lea County, NM (NAD 83)	MD Reference:	WELL @ 3407.0usft (Original Well Elev)
Site:	North Ridge	North Reference:	Grid
Well:	North Ridge #9H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
. ,						. ,			_
5,463.4		5.36	5,432.3	452.2 457.1	42.4 42.9	494,149.04 494,153.88	818,585.30	32° 21' 19.045 N	103° 26' 7.755 W 103° 26' 7.749 W
5,500.0 5,600.0		5.36 5.36	5,468.6 5,568.0	457.1 468.0	42.9 43.9	494,153.88 494,164.75	818,585.75 818,586.77	32° 21' 19.093 N 32° 21' 19.201 N	103°26'7.749 W
5,700.0		5.36	5,667.7	408.0	43.9	494,104.75	818,587.46	32° 21' 19.201 N 32° 21' 19.274 N	103° 26' 7.727 W
5,800.0		5.36	5,767.6	475.4	44.0	494,172.10	818,587.83	32° 21' 19.274 N 32° 21' 19.313 N	103° 26' 7.723 W
5,863.4		0.00	5,831.0	480.0	45.0	494,176.80	818,587.90	32° 21' 19.320 N	103° 26' 7.722 W
5,900.0		0.00	5,867.6	480.0	45.0	494,176.80	818,587.90	32° 21' 19.320 N	103° 26' 7.722 W
6,000.0		0.00	5,967.6	480.0	45.0	494,176.80	818,587.90	32° 21' 19.320 N	103° 26' 7.722 W
6,100.0		0.00	6,067.6	480.0	45.0	494,176.80	818,587.90	32° 21' 19.320 N	103° 26' 7.722 W
6,200.0	0.00	0.00	6,167.6	480.0	45.0	494,176.80	818,587.90	32° 21' 19.320 N	103° 26' 7.722 W
6,300.0	0.00	0.00	6,267.6	480.0	45.0	494,176.80	818,587.90	32° 21' 19.320 N	103° 26' 7.722 W
6,400.0	0.00	0.00	6,367.6	480.0	45.0	494,176.80	818,587.90	32° 21' 19.320 N	103° 26' 7.722 W
6,500.0	0.00	0.00	6,467.6	480.0	45.0	494,176.80	818,587.90	32° 21' 19.320 N	103° 26' 7.722 W
6,600.0	0.00	0.00	6,567.6	480.0	45.0	494,176.80	818,587.90	32° 21' 19.320 N	103° 26' 7.722 W
6,700.0		0.00	6,667.6	480.0	45.0	494,176.80	818,587.90	32° 21' 19.320 N	103° 26' 7.722 W
6,800.0		0.00	6,767.6	480.0	45.0	494,176.80	818,587.90	32° 21' 19.320 N	103° 26' 7.722 W
6,900.0		0.00	6,867.6	480.0	45.0	494,176.80	818,587.90	32° 21' 19.320 N	103° 26' 7.722 W
7,000.0		0.00	6,967.6	480.0	45.0	494,176.80	818,587.90	32° 21' 19.320 N	103° 26' 7.722 W
7,100.0		0.00	7,067.6	480.0	45.0	494,176.80	818,587.90	32° 21' 19.320 N	103° 26' 7.722 W
7,200.0		0.00	7,167.6	480.0	45.0	494,176.80	818,587.90	32° 21' 19.320 N	103° 26' 7.722 W 103° 26' 7.722 W
7,300.0 7,400.0		0.00 0.00	7,267.6 7,367.6	480.0 480.0	45.0 45.0	494,176.80 494,176.80	818,587.90 818,587.90	32° 21' 19.320 N 32° 21' 19.320 N	103°26'7.722 W
7,500.0		0.00	7,307.0	480.0	45.0	494,176.80	818,587.90	32° 21' 19.320 N	103° 26' 7.722 W
7,600.0		0.00	7,567.6	480.0	45.0	494,176.80	818,587.90	32° 21' 19.320 N	103° 26' 7.722 W
7,700.0		0.00	7,667.6	480.0	45.0	494,176.80	818,587.90	32° 21' 19.320 N	103° 26' 7.722 W
7,800.0		0.00	7,767.6	480.0	45.0	494,176.80	818,587.90	32° 21' 19.320 N	103° 26' 7.722 W
7,900.0		0.00	7,867.6	480.0	45.0	494,176.80	818,587.90	32° 21' 19.320 N	103° 26' 7.722 W
8,000.0		0.00	7,967.6	480.0	45.0	494,176.80	818,587.90	32° 21' 19.320 N	103° 26' 7.722 W
8,100.0	0.00	0.00	8,067.6	480.0	45.0	494,176.80	818,587.90	32° 21' 19.320 N	103° 26' 7.722 W
8,200.0	0.00	0.00	8,167.6	480.0	45.0	494,176.80	818,587.90	32° 21' 19.320 N	103° 26' 7.722 W
8,300.0	0.00	0.00	8,267.6	480.0	45.0	494,176.80	818,587.90	32° 21' 19.320 N	103° 26' 7.722 W
8,400.0	0.00	0.00	8,367.6	480.0	45.0	494,176.80	818,587.90	32° 21' 19.320 N	103° 26' 7.722 W
8,500.0		0.00	8,467.6	480.0	45.0	494,176.80	818,587.90	32° 21' 19.320 N	103° 26' 7.722 W
8,600.0		0.00	8,567.6	480.0	45.0	494,176.80	818,587.90	32° 21' 19.320 N	103° 26' 7.722 W
8,700.0		0.00	8,667.6	480.0	45.0	494,176.80	818,587.90	32° 21' 19.320 N	103° 26' 7.722 W
8,800.0		0.00	8,767.6	480.0	45.0	494,176.80	818,587.90	32° 21' 19.320 N	103° 26' 7.722 W
8,900.0		0.00	8,867.6	480.0	45.0	494,176.80	818,587.90	32° 21' 19.320 N	103° 26' 7.722 W
9,000.0		0.00	8,967.6	480.0	45.0	494,176.80	818,587.90	32° 21' 19.320 N	103° 26' 7.722 W
9,100.0		0.00	9,067.6	480.0	45.0	494,176.80	818,587.90	32° 21' 19.320 N	103° 26' 7.722 W 103° 26' 7.722 W
9,200.0 9,300.0		0.00 0.00	9,167.6 9,267.6	480.0 480.0	45.0 45.0	494,176.80 494,176.80	818,587.90 818,587.90	32° 21' 19.320 N 32° 21' 19.320 N	103°26'7.722 W
9,400.0		0.00	9,207.0 9,367.6	480.0	45.0	494,176.80	818,587.90	32° 21' 19.320 N	103° 26' 7.722 W
9,500.0		0.00	9,467.6	480.0	45.0	494,176.80	818,587.90	32° 21' 19.320 N	103° 26' 7.722 W
9,600.0		0.00	9,567.6	480.0	45.0	494,176.80	818,587.90	32° 21' 19.320 N	103° 26' 7.722 W
9,700.0		0.00	9,667.6	480.0	45.0	494,176.80	818,587.90	32° 21' 19.320 N	103° 26' 7.722 W
9,711.9		0.00	9,679.5	480.0	45.0	494,176.80	818,587.90	32° 21' 19.320 N	103° 26' 7.722 W
9,761.9		0.00	9,729.5	480.0	45.0	494,176.80	818,587.90	32° 21' 19.320 N	103° 26' 7.722 W
9,800.0		179.61	9,767.5	478.5	45.0	494,175.28	818,587.91	32° 21' 19.305 N	103° 26' 7.722 W
9,900.0		179.61	9,865.7	460.2	45.1	494,156.98	818,588.03	32° 21' 19.124 N	103° 26' 7.722 W
10,000.0		179.61	9,957.8	421.9	45.4	494,118.68	818,588.29	32° 21' 18.745 N	103° 26' 7.723 W
10,100.0	40.57	179.61	10,040.0	365.2	45.8	494,062.04	818,588.68	32° 21' 18.184 N	103° 26' 7.724 W
10,200.0		179.61	10,108.7	292.8	46.3	493,989.56	818,589.17	32° 21' 17.467 N	103° 26' 7.725 W
10,300.0		179.61	10,160.7	207.6	46.9	493,904.39	818,589.75	32° 21' 16.624 N	103° 26' 7.727 W
10,400.0		179.61	10,193.9	113.5	47.5	493,810.27	818,590.39	32° 21' 15.693 N	103° 26' 7.729 W
10,500.0	88.57	179.61	10,206.9	14.5	48.2	493,711.29	818,591.07	32° 21' 14.713 N	103° 26' 7.730 W

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COMPASS 5000.16 Build 97

.

Database:	EDM16	Local Co-ordinate Reference:	Well North Ridge #9H
Company:	BTA Oil Producers, LLC	TVD Reference:	WELL @ 3407.0usft (Original Well Elev)
Project:	Lea County, NM (NAD 83)	MD Reference:	WELL @ 3407.0usft (Original Well Elev)
Site:	North Ridge	North Reference:	Grid
Well:	North Ridge #9H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
10,511.9	90.00	179.61	10,207.0	2.5	48.3	493,699.35	818,591.15	32° 21' 14.595 N	103° 26' 7.731 W
10,600.0	90.00	179.61	10,207.0	-85.5	48.8	493,611.29	818,591.75	32° 21' 14.595 N 32° 21' 13.724 N	103° 26' 7.732 W
10,700.0	90.00	179.61	10,207.0	-185.5	49.5	493,511.30	818,592.43	32° 21' 12.734 N	103° 26' 7.734 W
10,800.0	90.00	179.61	10,207.0	-285.5	50.2	493,411.30	818,593.11	32° 21' 11.745 N	103° 26' 7.736 W
10,900.0	90.00	179.61	10,207.0	-385.5	50.9	493,311.30	818,593.79	32° 21' 10.755 N	103° 26' 7.738 W
11,000.0	90.00	179.61	10,207.0	-485.5	51.6	493,211.30	818,594.47	32° 21' 9.766 N	103° 26' 7.740 W
11,100.0	90.00	179.61	10,207.0	-585.5	52.3	493,111.31	818,595.15	32° 21' 8.776 N	103° 26' 7.741 W
11,200.0	90.00	179.61	10,207.0	-685.5	52.9	493,011.31	818,595.83	32° 21' 7.787 N	103° 26' 7.743 W
11,300.0	90.00	179.61	10,207.0	-785.5	53.6	492,911.31	818,596.51	32° 21' 6.797 N	103° 26' 7.745 W
11,400.0	90.00	179.61	10,207.0	-885.5	54.3	492,811.32	818,597.19	32° 21' 5.808 N	103° 26' 7.747 W
11,500.0	90.00	179.61	10,207.0	-985.5	55.0	492,711.32	818,597.87	32° 21' 4.818 N	103° 26' 7.749 W
11,600.0	90.00	179.61	10,207.0	-1,085.5	55.7	492,611.32	818,598.55	32° 21' 3.829 N	103° 26' 7.751 W
11,700.0	90.00	179.61	10,207.0	-1,185.5	56.3	492,511.32	818,599.24	32° 21' 2.839 N	103° 26' 7.753 W
11,800.0	90.00	179.61	10,207.0	-1,285.5	57.0	492,411.33	818,599.92	32° 21' 1.850 N	103° 26' 7.754 W
11,900.0	90.00	179.61	10,207.0	-1,385.5	57.7	492,311.33	818,600.60	32° 21' 0.860 N	103° 26' 7.756 W
12,000.0	90.00	179.61	10,207.0	-1,485.5	58.4	492,211.33	818,601.28	32° 20' 59.871 N	103° 26' 7.758 W
12,100.0	90.00	179.61	10,207.0	-1,585.5	59.1	492,111.33	818,601.96	32° 20' 58.881 N	103° 26' 7.760 W
12,200.0	90.00	179.61	10,207.0	-1,685.5	59.7	492,011.34	818,602.64	32° 20' 57.892 N	103° 26' 7.762 W
12,300.0 12,400.0	90.00 90.00	179.61 179.61	10,207.0 10,207.0	-1,785.5 -1,885.5	60.4 61.1	491,911.34 491,811.34	818,603.32 818,604.00	32° 20' 56.902 N 32° 20' 55.913 N	103° 26' 7.764 W 103° 26' 7.765 W
12,400.0	90.00	179.61	10,207.0	-1,985.5	61.8	491,711.34	818,604.68	32° 20' 54.923 N	103° 26' 7.767 W
12,600.0	90.00	179.61	10,207.0	-2,085.5	62.5	491,611.35	818,605.36	32° 20' 53.934 N	103° 26' 7.769 W
12,700.0	90.00	179.61	10,207.0	-2,185.5	63.1	491,511.35	818,606.04	32° 20' 52.944 N	103° 26' 7.771 W
12,800.0	90.00	179.61	10,207.0	-2,285.5	63.8	491,411.35	818,606.72	32° 20' 51.955 N	103° 26' 7.773 W
12,900.0	90.00	179.61	10,207.0	-2,385.5	64.5	491,311.35	818,607.40	32° 20' 50.965 N	103° 26' 7.775 W
13,000.0	90.00	179.61	10,207.0	-2,485.5	65.2	491,211.36	818,608.08	32° 20' 49.976 N	103° 26' 7.776 W
13,100.0	90.00	179.61	10,207.0	-2,585.4	65.9	491,111.36	818,608.76	32° 20' 48.986 N	103° 26' 7.778 W
13,200.0	90.00	179.61	10,207.0	-2,685.4	66.5	491,011.36	818,609.45	32° 20' 47.997 N	103° 26' 7.780 W
13,300.0	90.00	179.61	10,207.0	-2,785.4	67.2	490,911.36	818,610.13	32° 20' 47.008 N	103° 26' 7.782 W
13,400.0	90.00	179.61	10,207.0	-2,885.4	67.9	490,811.37	818,610.81	32° 20' 46.018 N	103° 26' 7.784 W
13,500.0	90.00	179.61	10,207.0	-2,985.4	68.6	490,711.37	818,611.49	32° 20' 45.029 N	103° 26' 7.786 W
13,600.0	90.00	179.61	10,207.0	-3,085.4	69.3	490,611.37	818,612.17	32° 20' 44.039 N	103° 26' 7.787 W
13,700.0	90.00	179.61	10,207.0	-3,185.4	70.0	490,511.38	818,612.85	32° 20' 43.050 N	103° 26' 7.789 W
13,800.0	90.00	179.61	10,207.0	-3,285.4	70.6	490,411.38	818,613.53	32° 20' 42.060 N	103° 26' 7.791 W
13,900.0	90.00	179.61	10,207.0	-3,385.4	71.3	490,311.38	818,614.21	32° 20' 41.071 N	103° 26' 7.793 W
14,000.0	90.00	179.61	10,207.0	-3,485.4	72.0	490,211.38	818,614.89	32° 20' 40.081 N 32° 20' 39.092 N	103° 26' 7.795 W
14,100.0 14,200.0	90.00 90.00	179.61 179.61	10,207.0 10,207.0	-3,585.4 -3,685.4	72.7 73.4	490,111.39 490,011.39	818,615.57 818,616.25	32° 20' 39.092 N 32° 20' 38.102 N	103° 26' 7.797 W 103° 26' 7.799 W
14,200.0	90.00 90.00	179.61	10,207.0	-3,065.4 -3,785.4	73.4 74.0	490,011.39	818,616.93	32° 20' 37.113 N	103°26'7.800 W
14,300.0	90.00	179.61	10,207.0	-3,885.4	74.0	489,811.39	818,617.61	32° 20' 36.123 N	103° 26' 7.802 W
14,500.0	90.00	179.61	10,207.0	-3,985.4	75.4	489,711.40	818,618.29	32° 20' 35.134 N	103° 26' 7.804 W
14,600.0	90.00	179.61	10,207.0	-4,085.4	76.1	489,611.40	818,618.98	32° 20' 34.144 N	103° 26' 7.806 W
14,700.0	90.00	179.61	10,207.0	-4,185.4	76.8	489,511.40	818,619.66	32° 20' 33.155 N	103° 26' 7.808 W
14,800.0	90.00	179.61	10,207.0	-4,285.4	77.4	489,411.40	818,620.34	32° 20' 32.165 N	103° 26' 7.810 W
14,900.0	90.00	179.61	10,207.0	-4,385.4	78.1	489,311.41	818,621.02	32° 20' 31.176 N	103° 26' 7.811 W
15,000.0		179.61	10,207.0	-4,485.4	78.8	489,211.41	818,621.70	32° 20' 30.186 N	103° 26' 7.813 W
15,100.0	90.00	179.61	10,207.0	-4,585.4	79.5	489,111.41	818,622.38	32° 20' 29.197 N	103° 26' 7.815 W
15,200.0	90.00	179.61	10,207.0	-4,685.4	80.2	489,011.41	818,623.06	32° 20' 28.207 N	103° 26' 7.817 W
15,300.0	90.00	179.61	10,207.0	-4,785.4	80.8	488,911.42	818,623.74	32° 20' 27.218 N	103° 26' 7.819 W
15,400.0	90.00	179.61	10,207.0	-4,885.4	81.5	488,811.42	818,624.42	32° 20' 26.228 N	103° 26' 7.821 W
15,500.0	90.00	179.61	10,207.0	-4,985.4	82.2	488,711.42	818,625.10	32° 20' 25.239 N	103° 26' 7.822 W
15,600.0	90.00	179.61	10,207.0	-5,085.4	82.9	488,611.42	818,625.78	32° 20' 24.249 N	103° 26' 7.824 W
15,700.0	90.00	179.61	10,207.0	-5,185.4	83.6	488,511.43	818,626.46	32° 20' 23.260 N	103° 26' 7.826 W
15,800.0		179.61	10,207.0	-5,285.4	84.2	488,411.43	818,627.14	32° 20' 22.270 N	103° 26' 7.828 W
15,900.0	90.00	179.61	10,207.0	-5,385.4	84.9	488,311.43	818,627.82	32° 20' 21.281 N	103° 26' 7.830 W

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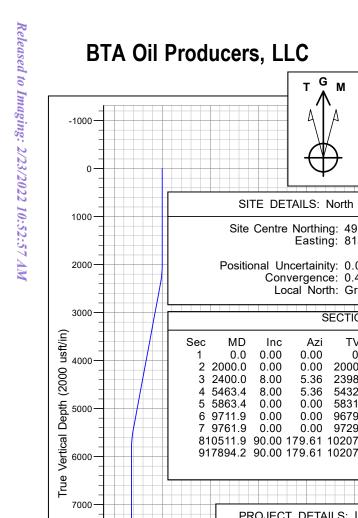
Page 6

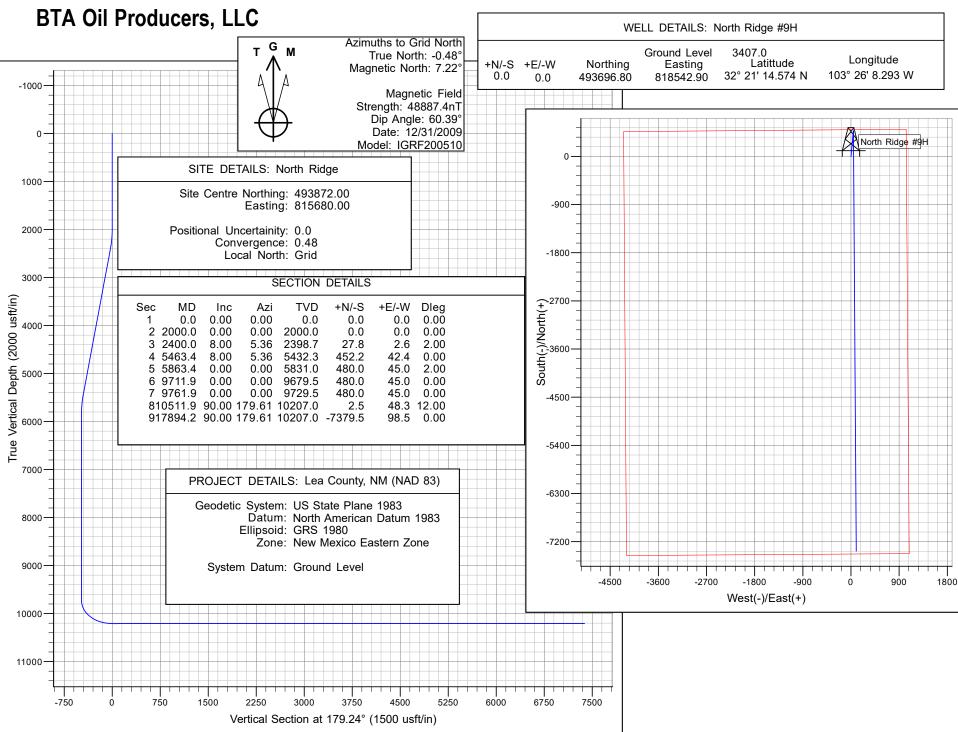
COMPASS 5000.16 Build 97

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Database:	EDM16	Local Co-ordinate Reference:	Well North Ridge #9H
Company:	BTA Oil Producers, LLC	TVD Reference:	WELL @ 3407.0usft (Original Well Elev)
Project:	Lea County, NM (NAD 83)	MD Reference:	WELL @ 3407.0usft (Original Well Elev)
Site:	North Ridge	North Reference:	Grid
Well:	North Ridge #9H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)		+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
16,000.0	90.00	179.61	10,207.0	-5,485.4	85.6	488,211.44	818,628.50	32° 20' 20.291 N	103° 26' 7.832 W
16,100.0	90.00	179.61	10,207.0	-5,585.4	86.3	488,111.44	818,629.19	32° 20' 19.302 N	103° 26' 7.833 W
16,200.0	90.00	179.61	10,207.0	-5,685.4	87.0	488,011.44	818,629.87	32° 20' 18.312 N	103° 26' 7.835 W
16,300.0	90.00	179.61	10,207.0	-5,785.4	87.6	487,911.44	818,630.55	32° 20' 17.323 N	103° 26' 7.837 W
16,400.0	90.00	179.61	10,207.0	-5,885.4	88.3	487,811.45	818,631.23	32° 20' 16.333 N	103° 26' 7.839 W
16,500.0	90.00	179.61	10,207.0	-5,985.4	89.0	487,711.45	818,631.91	32° 20' 15.344 N	103° 26' 7.841 W
16,600.0	90.00	179.61	10,207.0	-6,085.4	89.7	487,611.45	818,632.59	32° 20' 14.354 N	103° 26' 7.843 W
16,700.0	90.00	179.61	10,207.0	-6,185.4	90.4	487,511.45	818,633.27	32° 20' 13.365 N	103° 26' 7.844 W
16,800.0	90.00	179.61	10,207.0	-6,285.4	91.1	487,411.46	818,633.95	32° 20' 12.375 N	103° 26' 7.846 W
16,900.0	90.00	179.61	10,207.0	-6,385.4	91.7	487,311.46	818,634.63	32° 20' 11.386 N	103° 26' 7.848 W
17,000.0	90.00	179.61	10,207.0	-6,485.4	92.4	487,211.46	818,635.31	32° 20' 10.396 N	103° 26' 7.850 W
17,100.0	90.00	179.61	10,207.0	-6,585.4	93.1	487,111.46	818,635.99	32° 20' 9.407 N	103° 26' 7.852 W
17,200.0	90.00	179.61	10,207.0	-6,685.4	93.8	487,011.47	818,636.67	32° 20' 8.417 N	103° 26' 7.854 W
17,300.0	90.00	179.61	10,207.0	-6,785.4	94.5	486,911.47	818,637.35	32° 20' 7.428 N	103° 26' 7.855 W
17,400.0	90.00	179.61	10,207.0	-6,885.3	95.1	486,811.47	818,638.03	32° 20' 6.438 N	103° 26' 7.857 W
17,500.0	90.00	179.61	10,207.0	-6,985.3	95.8	486,711.47	818,638.72	32° 20' 5.449 N	103° 26' 7.859 W
17,600.0	90.00	179.61	10,207.0	-7,085.3	96.5	486,611.48	818,639.40	32° 20' 4.459 N	103° 26' 7.861 W
17,700.0	90.00	179.61	10,207.0	-7,185.3	97.2	486,511.48	818,640.08	32° 20' 3.470 N	103° 26' 7.863 W
17,800.0	90.00	179.61	10,207.0	-7,285.3	97.9	486,411.48	818,640.76	32° 20' 2.480 N	103° 26' 7.865 W
17,894.2	90.00	179.61	10,207.0	-7,379.5	98.5	486,317.30	818,641.40	32° 20' 1.548 N	103° 26' 7.866 W
Design Targets									
Target Name - hit/miss targ - Shape		•••	o Dir. TVD (°) (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
North Ridge #9H - plan hits ta - Point		0.00	0.00 10,207	2.0 -7,379.5	98.5	486,317.30	818,641.40	32° 20' 1.548 N	103° 26' 7.866 W

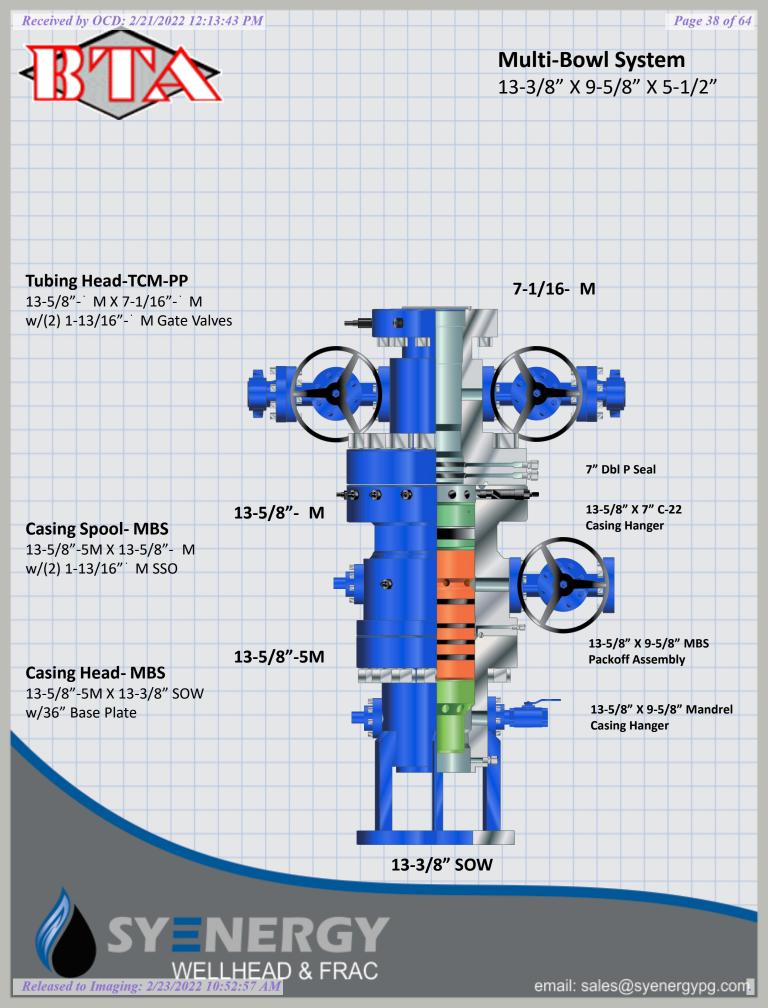




BOP Break Testing Request

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.



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

APD ID: 10400072963

Operator Name: BTA OIL PRODUCERS LLC

Well Name: NORTH RIDGE 8040 FEDERAL COM

Well Type: OIL WELL

Submission Date: 04/12/2021

Row(s) Exist? NO

Well Number: 9H

Highlighted data reflects the most recent changes

SUPO Data Repor

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02/14/2022

Show Final Text

Well Work Type: Drill

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

20110503_North_Ridge_8040_Fed_Com_9H_Vicinity_Topographical___Access_Rd_20210412151021.pdf

Existing Road Purpose: ACCESS

ROW ID(s)

ID:

Do the existing roads need to be improved? NO

Existing Road Improvement Description:

Existing Road Improvement Attachment:

Section 2 - New or Reconstructed Access Roads

Will new roads be needed? NO

Section 3 - Location of Existing Wells

Existing Wells Map? YES

Attach Well map:

20110503_North_Ridge_8040_Fed_Com_9H_1_Mile_Radius___C102_20210412151039.pdf

Well Name: NORTH RIDGE 8040 FEDERAL COM

Well Number: 9H

Section 4 - Location of Existing and/or Proposed Production Facilities

Submit or defer a Proposed Production Facilities plan? DEFER

Estimated Production Facilities description: Defer, CTB will be sundried at a later date.

Section 5 - Location a	nd Types of Water Supply	1	
Water Source Tab	le		
Water source type: OTHER			
Describe type: PIT			
Water source use type:	SURFACE CASING		
	STIMULATION		
	DUST CONTROL		
	INTERMEDIATE/PRODUCTION CASING		
Source latitude:		Source longitude:	
Source datum:			
Water source permit type:	PRIVATE CONTRACT		
Water source transport method:	TRUCKING		
Source land ownership: FEDERA	-		
Source transportation land owner	ship: PRIVATE		
Water source volume (barrels): 10	00000	Source volume (acre-feet): 12.88	
Source volume (gal): 4200000			

Water source and transportation map:

NORTH_RIDGE_3H__4H__7H__8H__9H___10H_Water_Transportation_Map_20210412134116.pdf

Water source comments: Water Pit is in NENE Quarter Quarter of Section 32 ; T22S ; R34E of Lea County NM

New water well? N

New Water Well Info

Well Name: NORTH RIDGE 8040 FEDERAL COM

Well Number: 9H

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Well latitude:	Well Longitude:	Well datum:	
Well target aquifer:			
Est. depth to top of aquifer(ft):	Est thickness	of aquifer:	
Aquifer comments:			
Aquifer documentation:			
Well depth (ft):	Well casing type	:	
Well casing outside diameter (in.):	Well casing insid	de diameter (in.):	
New water well casing?	Used casing sou	Irce:	
Drilling method:	Drill material:		
Grout material:	Grout depth:		
Casing length (ft.):	Casing top dept	h (ft.):	
Well Production type:	Completion Met	hod:	
Water well additional information:			
State appropriation permit:			
Additional information attachment:			

Section 6 - Construction Materials

Using any construction materials: YES

Construction Materials description: Caliche used for construction of the drilling pad and access road will be obtained from the closest existing caliche pit as approved by the BLM or from prevailing deposits found under the location. If there is not sufficient material available, caliche will be purchased from the nearest caliche pit located in the SWSE Quarter Quarter of Section 23 T22S R34E Lea County, NM

Construction Materials source location attachment:

Section 7 - Methods for Handling Waste

Waste type: GARBAGE

Waste content description: Trash

Amount of waste: 500 pounds

Waste disposal frequency : One Time Only

Safe containment description: Trash produced during drilling and completion operations will be collected in a trash container and disposed of properly. **Safe containmant attachment:**

Waste disposal type: HAUL TO COMMERCIAL Disposal location ownership: COMMERCIAL

FACILITY Disposal type description:

Disposal location description: Trucked to a state approved disposal facility.

Well Name: NORTH RIDGE 8040 FEDERAL COM

Well Number: 9H

Waste type: SEWAGE

Waste content description: Human waste and grey water.

Amount of waste: 1000 gallons

Waste disposal frequency : One Time Only

Safe containment description: Waste material will be stored safely and disposed of properly.

Safe containmant attachment:

Waste disposal type: HAUL TO COMMERCIAL Disposal location ownership: COMMERCIAL FACILITY

Disposal type description:

Disposal location description: Trucked to a state approved disposal facility.

Waste type: DRILLING

Waste content description: Drilling fluids and cuttings.

Amount of waste: 4164 barrels

Waste disposal frequency : One Time Only

Safe containment description: All drilling fluids will be stored safely and disposed of properly.

Safe containmant attachment:

Waste disposal type: HAUL TO COMMERCIAL Disposal location ownership: COMMERCIAL FACILITY Disposal type description:

Disposal location description: Trucked to a state approved disposal facility.

Reserve Pit

Reserve Pit being used? NO

Temporary disposal of produced water into reserve pit? NO

Reserve pit length (ft.) Reserve pit width (ft.)

Reserve pit depth (ft.)

Reserve pit volume (cu. yd.)

Is at least 50% of the reserve pit in cut?

Reserve pit liner

Reserve pit liner specifications and installation description

Cuttings Area

Cuttings Area being used? NO

Are you storing cuttings on location? N

Page 4 of 9

Well Name: NORTH RIDGE 8040 FEDERAL COM

Well Number: 9H

Description of cuttings locationCuttings area length (ft.)Cuttings area width (ft.)Cuttings area depth (ft.)Cuttings area volume (cu. yd.)Is at least 50% of the cuttings area in cut?WCuttings area liner

Cuttings area liner specifications and installation description

Section 8 - Ancillary Facilities

Are you requesting any Ancillary Facilities?: N

Ancillary Facilities attachment:

Comments:

Section 9 - Well Site Layout

Well Site Layout Diagram:

Rig_Layout_20190930140859.pdf

20110503_North_Ridge_8040_Fed_Com_9H_Well_Site_Plan__600s__20210412151137.pdf

Comments: This well will be drilled on an already existing pad. Access road was previously approved with preceding North Ridge Permits of the same pad.

Section 10 - Plans for Surface Reclamation

Type of disturbance: No New Surface Disturbance Multiple Well Pad Name: NORTH RIDGE 8040 FEDERAL COM

Multiple Well Pad Number: 3H, 4H, 7H, 8H, 9H, & 10H

Recontouring attachment:

Drainage/Erosion control construction: During construction proper erosion control methods will be used to control erosion, runoff, and siltation of the surrounding area.

Drainage/Erosion control reclamation: Proper erosion control methods will be used on the area to control erosion, runoff, and siltation of the surrounding area.

Well pad proposed disturbance	Well pad interim reclamation (acres):) Well pad long term disturbance	
(acres): Road proposed disturbance (acres):	Road interim reclamation (acres): 0	(acres): 0 Road long term disturbance (acres): 0	
Powerline proposed disturbance (acres): Pipeline proposed disturbance	Powerline interim reclamation (acres): 0 Pipeline interim reclamation (acres): 0	(acres): 0	
(acres): Other proposed disturbance (acres):	Other interim reclamation (acres): 0	(acres): 0 Other long term disturbance (acres): 0	
	Total interim reclamation: 0		

Well Name: NORTH RIDGE 8040 FEDERAL COM

Well Number: 9H

Total proposed disturbance: 0

Total long term disturbance: 0

Reconstruction method: The areas planned for interim reclamation will then be recontoured to the original contour if feasible, or if not feasible, to an interim contour that blends with the surrounding topography as much as possible. Where applicable, the fill material of the well pad will be backfilled into the cut to bring the area back to the original contour. The interim cut and fill slopes prior to re-seeding will not be steeper than a 3:1 ratio, unless the adjacent native topography is steeper. Note: Constructed slopes may be much steeper during drilling, but will be recontoured to the above ratios during interim reclamation.

Topsoil redistribution: Topsoil will be evenly respread and aggressively revegetated over the entire disturbed area not needed for all-weather operations.

Soil treatment: To seed the area, the proper BLM seed mixture, free of noxious weeds, will be used. Final seedbed preparation will consist of contour cultivating to a depth of 4 to 6 inches within 24 hours prior to seeding, dozer tracking, or other imprinting in order to break the soil crust and create seed germination micro-sites.

Existing Vegetation at the well pad: The historic climax plant community is a grassland dominated by black grama, dropseeds, and blue stems with sand sage and shinnery oak distributed evenly throughout. Current landscape displays mesquite, shinnery oak, yucca, desert sage, fourwing saltbush, snakeweed, and bunch grasses. **Existing Vegetation at the well pad attachment:**

Existing Vegetation Community at the road: Refer to "Existing Vegetation at the well pad"

Existing Vegetation Community at the road attachment:

Existing Vegetation Community at the pipeline: Refer to "Existing Vegetation at the well pad"

Existing Vegetation Community at the pipeline attachment:

Existing Vegetation Community at other disturbances: Refer to "Existing Vegetation at the well pad"

Existing Vegetation Community at other disturbances attachment:

Non native seed used? N

Non native seed description:

Seedling transplant description:

Will seedlings be transplanted for this project? N

Seedling transplant description attachment:

Will seed be harvested for use in site reclamation?

Seed harvest description:

Seed harvest description attachment:

Received by OCD: 2/21/2022	12:13:43 PM		P
Operator Name: BTA OIL	PRODUCERS LLC		
Well Name: NORTH RIDO	GE 8040 FEDERAL COM	Well Number: 9	н
Seed Managem	ent		
Seed Table			
Seed	Summary	Total pounds/Acre:	
Seed Type	Pounds/Acre		
Seed reclamation attachn	nent:		
Operator Contac	ct/Responsible Offic	ial Contact Info	
First Name: Chad		Last Name: Smith	
Phone: (432)682-3753		Email: CSMITH@BTA	OIL.COM
Seedbed prep:			
Seed BMP:			
Seed method:			
Existing invasive species	? N		
Existing invasive species	treatment description:		
Existing invasive species	treatment attachment:		
Weed treatment plan deso location and road.	cription: No invasive specie	s present. Standard reg	ular maintenance to maintain a clear

Weed treatment plan attachment:

Monitoring plan description: Identify areas supporting weeds prior to construction; prevent the introduction and spread of weeds from construction equipment during construction; and contain weed seeds and propagules by preventing segregated topsoil from being spread to adjacent areas. No invasive species present. Standard regular maintenance to maintain a clear location and road. **Monitoring plan attachment:**

Success standards: To maintain all disturbed areas as per Gold Book standards.

Pit closure description: N/A

Pit closure attachment:

Section 11 - Surface Ownership

Well Name: NORTH RIDGE 8040 FEDERAL COM

Well Number: 9H

Disturbance type: WELL PAD

Describe:

Surface Owner: PRIVATE OWNERSHIP

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Fee Owner: Fee Owner DepercatedFee Owner Address:Phone: (999)999-9999Email: none@aol.comSurface use plan certification: NOSurface use plan certification document:Surface access agreement or bond: AGREEMENTSurface Access Agreement Need description: Agreement made with surface owner.Surface Access Bond BLM or Forest Service:BLM Surface Access Bond number:USFS Surface access bond number:

Section 12 - Other Information

Right of Way needed? N ROW Type(s):

ROW Applications

Use APD as ROW?

Well Name: NORTH RIDGE 8040 FEDERAL COM

Well Number: 9H

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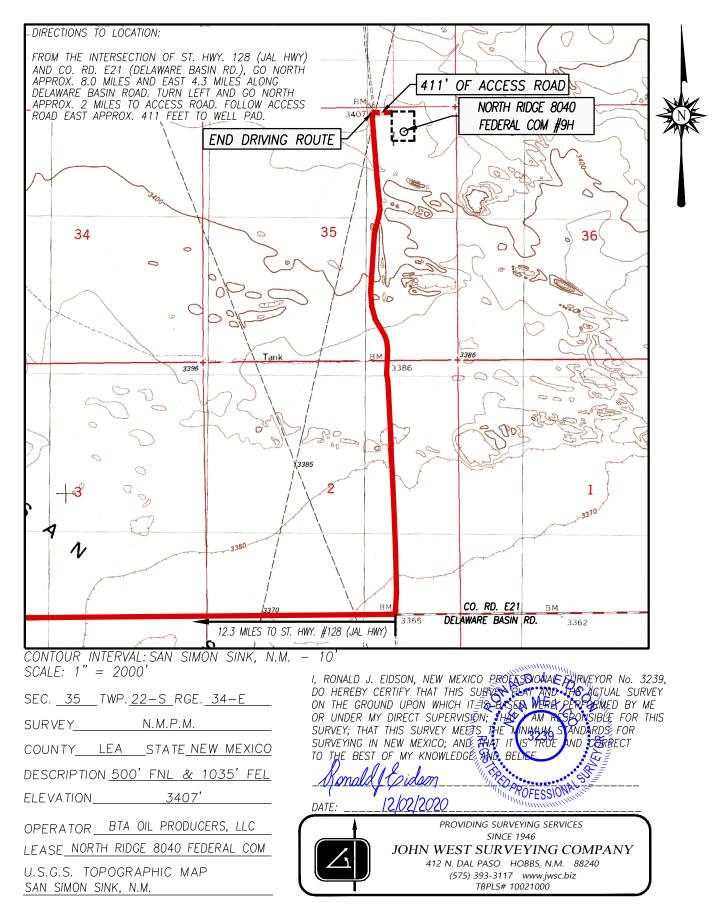
SUPO Additional Information:

Use a previously conducted onsite? Y

Previous Onsite information: Onsite not necessary per McKenna Ryder NRS (BLM), proposed well is on already approved pad. No new surface disturbance required.

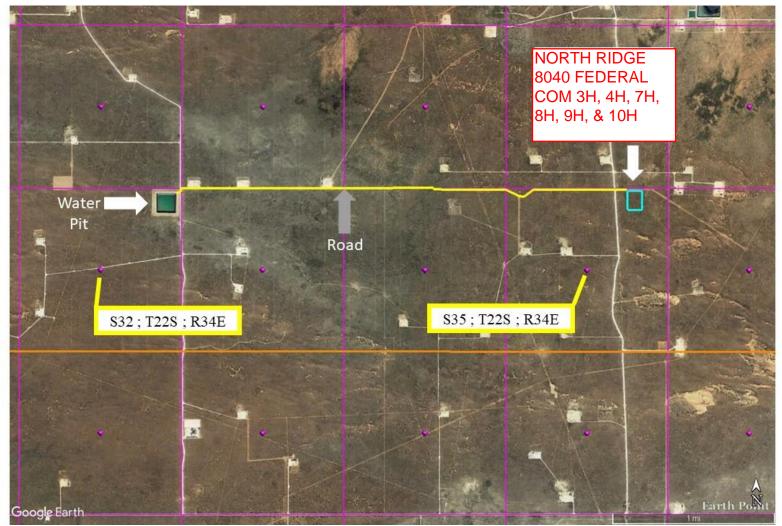
Other SUPO Attachment

VICINITY, TOPOGRAPHIC AND ACCESS ROAD MAP



eived by OCD): 2/21/202	2 12:13:43	РМ								Page 49 of 6
DISTRICT I 625 N. French Dr., Ho Phone: (575) 393-6161 DISTRICT II 811 S. First St., Artesia, Phone: (575) 748-1283	Fax: (575) 393-0		0.5	۸inerals له IL CONS	e of New 1 & Natural 1 SERVATIO	Resources	SION	artmen	t		Form C-102 vised August 1, 2011 e copy to appropriate District Office
DISTRICT III 0000 Rio Brazos Road, Phone: (505) 334-6178 DISTRICT IV 220 S. St. Francis Dr., Phone: (505) 476-3460	Fax: (505) 334-6	5170 7505	⁰ 1220 South St. Francis Dr. Santa Fe, New Mexico 87505								ENDED REPORT
	PI Number	WEL		Pool Code	D ACREA	AGE DEI	JICA		PLAI ol Name		
							telope	Ridge;	Bone S	Spring Nort	
Property C	Code		NOI	RTH RID	Property Nam GE 8040 I		L CO	M		We	ll Number 9H
OGRID 1 26029					Operator Nan L PRODU	ne					levation 3407'
		·			Surface Locat	tion				·	
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South		Feet from		East/West line	County
A	35	22-S	34-E	Pottom Hole I	500	NORT		1035	,	EAST	LEA
UL or lot No. H	Section 2	Township 23-S	Range 34-E	Lot Idn	Feet from the 2600	North/South NORT	line	Feet from 990	the I	East/West line EAST	County LEA
Dedicated Acres 240			onsolidation Co								
NO ALLOWABLE W		LITERIA.	02 5-3 0 604	TIL ALL INTERE	STS HAVE BEEN (NENW (C)	ORANO		RD UNIT HA		D BY THE DIVISION
		*	-02 5-3 0004			7	<u> </u>		⊙ DEN	IOTES PROPOSED W	/ELL
SENE (H)	SWNW (E)	SENW (F)	SWNE (G)	SENE (H)	SWNW (E)	SENW (F)	SWNE (G)				
	NWSW (L)	NESW (K)	86 – – – – – – – – – – – – – – – – – – –	NE <u>€</u> 30-025 (Ť)	-27 0 WSW (L)	NESW (K)	5 NWSE (J)				
30607 0848 SESE (P)	30 \$ \$W\$W (M)	-025-30733 SESW (N)	30-025 	22S34E SESE (P)	SW:39-025-3 30;∰5-46163 3-41352 ³⁰⁻⁰² 5-4145	30-025(461)64 30-025-46162	SWSE (0)				
30-025-46816 30-025-46821	30-025-4	4695830-025-4695	7 30-025-4	1696020-025-46951 30-025-46962 NENE	30-025-4	42 0843 0-02 5-42 08					
-025-30661)	NWNW (D)	4700030-025-4696 NENW (C)	ишие (В) #9H-	(A)	NWNW (D)	NENW (C)	NWN (B)				
SENE (H)	SWN30-025 (首)	-30128 _{SEN} 30-025 (F)		SENE (H)	SWNW (E)	SENW (F)	SWN (G)		I hereby ce was plotted me or unde	from field otes of a	ation shown on this plat ctual surveys made by
NESE (1)	NWSW (L)	NESW (K)	NWSE (J)	NESE (1)	NWSW 30-0 (L)	n2 5-30 <u>092</u> ,W (K)	NWS (4)		Date of S Signature	OCTOBER Urvey 3239 & Sea of Profess	onal Sufference
SES ³⁰⁻⁰²⁵⁻² (₱)	29807 _{SWŚW} (M)	SES ³⁰⁻⁰²⁵ (N)	i-27824 _{SWSE} (0)	SESE (P) 30-0	25-4084430-025-408 30-025-407	17	swsi (O)			PED PROFESSIO	NA CONTRACTOR
			1		30-025-4700	30-025-47069 30-025-47061	and a		Kona	ld f Eidon	1 12/02/2020
		2000		0	2000 Feet	t			Certificate		G. Eidson 12641 Id J. Eidson 3239
				e:1"=2000'					ACK		WSC W.O.: 20.11.0503

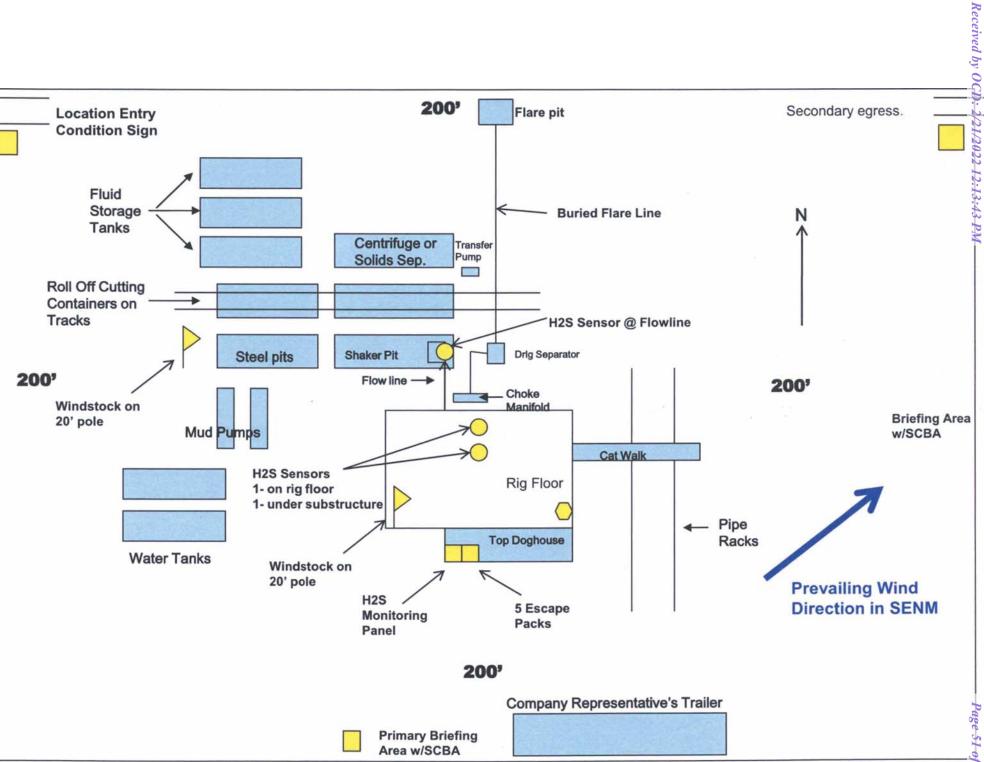
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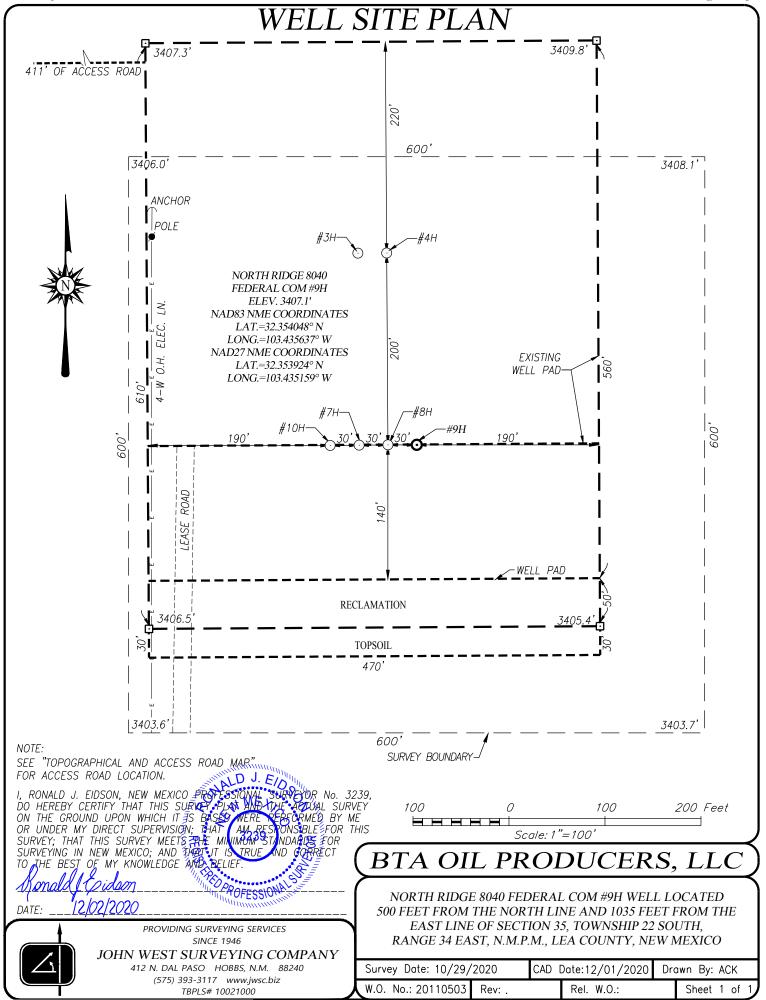
BTA OIL PRODUCERS, LLC WATER TRANSPORTATION MAP NORTH RIDGE 8040 FEDERAL COM 3H, 4H, 7H, 8H, 9H, & 10H WELL PAD TO WATER PIT SEC 35 ; T22S ; R34E - SEC 32 ; T22S ; R34E LEA COUNTY, NM







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U.S. Department of the Interior BUREAU OF LAND MANAGEMENT Page 53 of 64

02/14/2022

PWD Data Report

APD ID: 10400072963

Operator Name: BTA OIL PRODUCERS LLC Well Name: NORTH RIDGE 8040 FEDERAL COM

Well Type: OIL WELL

Submission Date: 04/12/2021

Well Number: 9H Well Work Type: Drill

Section 1 - General

Would you like to address long-term produced water disposal? NO

Section 2 - Lined Pits

Would you like to utilize Lined Pit PWD options? N Produced Water Disposal (PWD) Location: **PWD surface owner:** Lined pit PWD on or off channel: Lined pit PWD discharge volume (bbl/day): Lined pit specifications: Pit liner description: Pit liner manufacturers information: Precipitated solids disposal: Decribe precipitated solids disposal: Precipitated solids disposal permit: Lined pit precipitated solids disposal schedule: Lined pit precipitated solids disposal schedule attachment: Lined pit reclamation description: Lined pit reclamation attachment: Leak detection system description: Leak detection system attachment:

PWD disturbance (acres):

Well Name: NORTH RIDGE 8040 FEDERAL COM

Lined pit Monitor description: Lined pit Monitor attachment: Lined pit: do you have a reclamation bond for the pit? Is the reclamation bond a rider under the BLM bond? Lined pit bond number: Lined pit bond amount: Additional bond information attachment:

Section 3 - Unlined Pits

Would you like to utilize Unlined Pit PWD options? N

Produced Water Disposal (PWD) Location:

PWD disturbance (acres): PWD surface owner:

Unlined pit PWD on or off channel:

Unlined pit PWD discharge volume (bbl/day):

Unlined pit specifications:

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal permit:

Unlined pit precipitated solids disposal schedule:

Unlined pit precipitated solids disposal schedule attachment:

Unlined pit reclamation description:

Unlined pit reclamation attachment:

Unlined pit Monitor description:

Unlined pit Monitor attachment:

Do you propose to put the produced water to beneficial use?

Beneficial use user confirmation:

Estimated depth of the shallowest aquifer (feet):

Does the produced water have an annual average Total Dissolved Solids (TDS) concentration equal to or less than that of the existing water to be protected?

TDS lab results:

Geologic and hydrologic evidence:

State authorization:

Unlined Produced Water Pit Estimated percolation:

Unlined pit: do you have a reclamation bond for the pit?

Well Number: 9H

Well Name: NORTH RIDGE 8040 FEDERAL COM

Well Number: 9H

PWD disturbance (acres):

Injection well name:

Injection well API number:

Is the reclamation bond a rider under the BLM bond? Unlined pit bond number: Unlined pit bond amount:

Additional bond information attachment:

Section 4 - Injection

Would you like to utilize Injection PWD options? N

Produced Water Disposal (PWD) Location:

PWD surface owner:

Injection PWD discharge volume (bbl/day):

Injection well mineral owner:

Injection well type:

Injection well number:

Assigned injection well API number?

Injection well new surface disturbance (acres):

Minerals protection information:

Mineral protection attachment:

Underground Injection Control (UIC) Permit?

UIC Permit attachment:

Section 5 - Surface Discharge

Would you like to utilize Surface Discharge PWD options? N

 Produced Water Disposal (PWD) Location:

 PWD surface owner:
 PWD disturbance (acres):

 Surface discharge PWD discharge volume (bbl/day):
 Surface Discharge NPDES Permit?

 Surface Discharge NPDES Permit attachment:
 Surface Discharge site facilities information:

 Surface discharge site facilities map:
 Section 6 - Other

Would you like to utilize Other PWD options? N

Produced Water Disposal (PWD) Location:

PWD surface owner:

Other PWD discharge volume (bbl/day):

PWD disturbance (acres):

Well Name: NORTH RIDGE 8040 FEDERAL COM

Well Number: 9H

Other PWD type description:

Other PWD type attachment:

Have other regulatory requirements been met?

Other regulatory requirements attachment:

Released to Imaging: 2/23/2022 10:52:57 AM

Received by OCD: 2/21/2022 12:13:43 PM

AFMSS

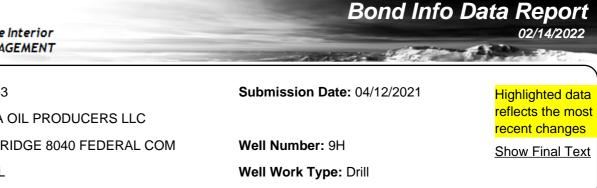
U.S. Department of the Interior BUREAU OF LAND MANAGEMENT

APD ID: 10400072963

Operator Name: BTA OIL PRODUCERS LLC Well Name: NORTH RIDGE 8040 FEDERAL COM Well Type: OIL WELL

Bond Information

Federal/Indian APD: FED BLM Bond number: NMB001711 **BIA Bond number:** Do you have a reclamation bond? NO Is the reclamation bond a rider under the BLM bond? Is the reclamation bond BLM or Forest Service? **BLM reclamation bond number:** Forest Service reclamation bond number: Forest Service reclamation bond attachment: **Reclamation bond number: Reclamation bond amount: Reclamation bond rider amount:** Additional reclamation bond information attachment:



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Re	ceived	bv	• OCD :	2/21	/2022	12:13:	43 PM
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State of New Mexico Submit Electronically Energy, Minerals and Natural Resources Department Via E-permitting Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Santa Fe, NM 87505							
	N	ATURAL G	AS MANA(GEMENT P	LAN		
This Natural Gas Mar	nagement Plan mu	st be submitted w	ith each Applicat	ion for Permit to I	Drill (A	PD) for a new	w or recompleted well.
			<u>1 – Plan De</u> ffective May 25,				
I. Operator:BTA	Oil Producers	, LLC	OGRID:2	.60297		Date: _2	/ 21/2022
II. Type: 🗵 Original	I □ Amendment o	due to □ 19.15.27	.9.D(6)(a) NMAC	C 🗆 19.15.27.9.D((6)(b) N	MAC 🗆 Otł	ner.
f Other, please descr	ibe:						
III. Well(s): Provide be recompleted from Well Name					Ant	roposed to be icipated MCF/D	e drilled or proposed to Anticipated Produced Water BBL/D
NORTH RIDGE 8040	30-025-49792	A-35-22S-34E	500 FNL, 1035 FEL	+/- 800	+/- 2	2000	+/- 1200
FEDERAL COM 9H IV. Central Delivery V. Anticipated Scher proposed to be recom	dule: Provide the	following informa	tion for each new				15.27.9(D)(1) NMAC] roposed to be drilled or
Well Name	API	Spud Date	TD Reached Date	Completion Commencement		Initial Flo Back Dat	
NORTH RIDGE 8040 FEDERAL COM 9H	30-025-49792	7/15/2022	8/4/2022	8/18/2022		9/8/2022	10/8/2022
	actices: 🗵 Attacl	n a complete desc		-			o optimize gas capture. ith the requirements of

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

Section 2 – Enhanced Plan EFFECTIVE APRIL 1, 2022

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

 \Box 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 Samp 2 forjon
Printed Name: Sammy Hajar
Title: Regulatory Analyst
E-mail Address: SHAJAR@BTAOIL.COM
Date: 2/21/2022
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.

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	82968
	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	2/23/2022
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	2/23/2022
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	2/23/2022
pkautz	Cement is required to circulate on both surface and intermediate1 strings of casing	2/23/2022

Action 82968