ו הוודבה פדאי				OMB N	APPRO 0. 1004-0	0137		
UNITED STAT	TES	محلا	)	Expires: Ja	anuary 31	, 2018		
DEPARTMENT OF THE		aBSU		5. Lease Serial No. NMNM026396				
UNITED STAT DEPARTMENT OF THE BUREAU OF LAND MA APPLICATION FOR PERMIT TO		REENTRON20		6. If Indian, Allotee	or Tribe	Name		
APPLICATION FOR PERMIT TO		RECEIV	-0					
1a. Type of work: 🗸 DRILL	REENTER	CEIV		7. If Unit or CA Ag	reement,	Name and No.		
1b. Type of Well:	Other	RECE			· 、	· · · · · · · · · · · · · · · · · · ·		
				8. Lease Name and	Well No.			
1c. Type of Completion: Hydraulic Fracturing	Single Zone	Multiple Zone		NORTH RIDGE 8				
				4H	J27	1302		
2. Name of Operator				9. API Well No.				
BTA OIL PRODUCERS LLC (260297)				30-025-	1696			
3a. Address		lo. <i>(include area coa</i> 752	le)	10. Field and Pool,				
104 S. Pecos Midland TX 79701	(432)682-3					· · · · · · · · · · · · · · · · · · ·		
<ol> <li>Location of Well (Report location clearly and in accordance At surface NENE / 300 FNL / 1065 FEL / LAT 32.35</li> </ol>	-			11. Sec., T. R. M. o SEC 35 / T22S / F		•		
At surface NENE / 300 FNL / 1005 FEL / LAT 32.33 At proposed prod. zone SENE / 2600 FNL / 380 FEL /			3544					
· · ·				12. County or Paris		13. State		
<ul><li>14. Distance in miles and direction from nearest town or post</li><li>17 miles</li></ul>	onice.		<u> </u>	LEA	••	NM		
15. Distance from proposed* 300 feet	16. No of ac	cres in lease	17. Spac	ing Unit dedicated to	his well			
location to nearest boo leet property or lease line, ft.	280	,	240	. ,				
(Also to nearest drig. unit line, if any)	10. Duran	10-4						
<ol> <li>Distance from proposed location* to nearest well, drilling, completed, applied for on this lease ft</li> <li>1437 feet</li> </ol>	19. Propose	•	I/BIA Bond No. in file					
applied for, on this lease, ft. 1437 leet	10520 feet	/ 18191 feet		MB001711				
21. Elevations (Show whether DF, KDB, RT, GL, etc.)		mate date work will	start*	23. Estimated durat	ion			
3407 feet	11/11/2019	<u> </u>		30 days				
	24. Attac							
The following completed in accordance which are the	s of Onchorn Oil							
The following, completed in accordance with the requirement (as applicable)		and Gas Order No.	1, and the	Hydraulic Fracturing	ule per 4	3 CFR 3162.3-3		
(as applicable)								
(as applicable) 1. Well plat certified by a registered surveyor.		4. Bond to cover the		Hydraulic Fracturing i ns unless covered by a				
(as applicable)			he operation					
(as applicable) 1. Well plat certified by a registered surveyor. 2. A Drilling Plan.	vstem Lands, the	<ol> <li>Bond to cover the ltem 20 above).</li> <li>Operator certifies</li> <li>Such other site states</li> </ol>	he operation		n existing	g bond on file (see		
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## Application for Permit to Drill

### **APD Package Report**

APD ID: 10400042638 APD Received Date: 06/11/2019 08:16 AM Operator: BTA OIL PRODUCERS LLC

### **APD Package Report Contents**

- Form 3160-3
- Operator Certification Report
- Application Report
- Application Attachments
  - -- Well Plat: 1 file(s)
- Drilling Plan Report
- Drilling Plan Attachments
  - -- Blowout Prevention Choke Diagram Attachment: 261e(5)
  - -- Blowout Prevention BOP Diagram Attachment: 1 file(s)
  - -- Casing Design Assumptions and Worksheet(s): 3 file(s)
  - -- Hydrogen sulfide drilling operations plan: 3 file(s)
  - -- Proposed horizontal/directional/multi-lateral plan submission: 3 file(s)
  - -- Other Variances: 2 file(s)
- SUPO Report
- SUPO Attachments
  - -- Existing Road Map: 1 File(s)
  - -- New Road Map: 1 file(s)
  - -- Attach Wellinnap: 1 file(s
  - -- Production Facilities map: 1 file(s)
  - -- Water source and transportation map: 1 file(s)
  - -- Well Site Lavour Diagram: 6 file(s)
- PWD Report
- PWD Attachments
  - -- None
- Bond Report
- Bond Attachments
  - -- None

U.S. Department of the Interior Bureau of Land Management

### Date Printed: 03/05/2020 07:50 AM

Well Status: AAPD Well Name: NORTH RIDGE 8040 FEDER/ Well Number: 4H

### **Review and Appeal Rights**

A person contesting a decision shall request a State Director review. This request must be filed within 20 working days of receipt of the Notice with the appropriate State Director (see 43 CFR 3165.3). The State Director review decision may be appealed to the Interior Board of Land Appeals, 801 North Quincy Street, Suite 300, Arlington, VA 22203 (see 43 CFR 3165.4). Contact the above listed Bureau of Land Management office for further information.

### PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	BTA Oil Producers LLC
1	NMNM026396
	North Ridge 8040 Federal Com 4H
SURFACE HOLE FOOTAGE:	
<b>BOTTOM HOLE FOOTAGE</b>	
	Section 35, T.22 S., R.34 E., NMPM
	Lea County, New Mexico

# COA

H2S	ſ Yes	r No	
Potash	None	C Secretary	← R-111-P
Cave/Karst Potential	د Low	C Medium	High
Cave/Karst Potential	Critical		
Variance		Flex Hose	C Other
Wellhead	Conventional	Multibowl	
Other	✓ 4 String Area	Capitan Reef	<b>Г</b> WIPP
Other	Fluid Filled	☐ Cement Squeeze	Pilot Hole
Special Requirements	✓ Water Disposal	COM	<b>Г</b> 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 1775 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

Page 1 of 8

completing the cement job.

- b. Wait on cement (WOC) time for a primary cement job will be a minimum of <u>8</u> <u>hours</u> or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- d. If cement falls back, remedial cementing will be done prior to drilling out that string.

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

- 2. The 9-5/8 inch intermediate casing shall be set at approximately 5580 feet. The minimum required fill of cement behind the 9-5/8 inch intermediate casing is:
  - Cement to surface. If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.
  - In <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.

Page 2 of 8

Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.

### **C. PRESSURE CONTROL**

- 1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'
- 2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M)** psi.
  - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
  - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
  - c. Manufacturer representative shall install the test plug for the initial BOP test.
  - d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
  - e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

### **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
    - Notify the BLM when moving in and removing the Spudder Rig.
    - Notify the BLM when moving in the 2<sup>nd</sup> Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
    - BOP/BOPE test to be conducted per 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.

Page 4 of 8

### 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</u> <u>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. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least <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

Page 5 of 8

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
- 2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
- 3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
- 4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
  - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
  - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
  - c. Manufacturer representative shall install the test plug for the initial BOP test.
  - d. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.
  - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
  - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not

Page 6 of 8

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

Page 7 of 8

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.

OTA01212020

Page 8 of 8

### PECOS DISTRICT SURFACE USE CONDITIONS OF APPROVAL

	BTA Oil Producers LLC
	North Ridge 8040 Federal Com 4H
SURFACE HOLE FOOTAGE:	
BOTTOM HOLE FOOTAGE	2600'/N & 380'/E
LOCATION:	Section 35, T.22 S., R.34 E., NMPM
COUNTY:	Lea County, New Mexico

### **TABLE OF CONTENTS**

Standard Conditions of Approval (COA) apply to this APD. If any deviations to these standards exist or special COAs are required, the section with the deviation or requirement will be checked below.

Permit Expiration
Archaeology, Paleontology, and Historical Sites
Noxious Weeds
Special Requirements
Lesser Prairie-Chicken Timing Stipulations
Ground-level Abandoned Well Marker
Hydrology
Construction
Notification
Topsoil
Closed Loop System
Federal Mineral Material Pits
Well Pads
Roads
Road Section Diagram
Production (Post Drilling)
Well Structures & Facilities
Interim Reclamation
Final Abandonment & Reclamation

Page 1 of 12

Page 12 of 12

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Approval Date: 03/04/2020

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

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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.

moner

03/05/2020

NAME: Sammy Hajar		Signed on: 06/11/2019
Title: Regulatory Analys	t	
Street Address: 104 S.	Pecos	
City: Midland	State: TX	<b>Zip:</b> 79701
Phone: (432)682-3753		
Email address: shajar@	)btaoil.com	
Field Repres	entative	
Representative Name:		
Street Address: 104 Sc	outh Pecos	
City: Midland	State: TX	<b>Zip:</b> 79701
Phone: (432)682-3753		
Email address: neaton(	@btaoil.com	

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U.S. Department of the Interior BUREAU OF LAND MANAGEMENT				03/05/2020
APD ID: 10400042638		Submissio	<b>Date:</b> 06/11/201	19
Operator Name: BTA OIL PRODUCERS L	LC			
Well Name: NORTH RIDGE 8040 FEDER	AL COM	Well Numb	er: 4H	Show Final Text
Well Type: OIL WELL		Well Work	<b>Fype:</b> Drill	
Section 1 - General				
APD ID: 10400042638	Tie to pr	evious NOS?		Submission Date: 06/11/2019
BLM Office: CARLSBAD	User: Sa	mmy Hajar	Title	: Regulatory Analyst
Federal/Indian APD: FED	Is the fir	st lease penetrat	ed for production	on Federal or Indian? FED
Lease number: NMNM026396	Lease A	cres: 280		
Surface access agreement in place?	Allotted	?	<b>Reservation:</b>	
Agreement in place? NO	Federal	or Indian agreen	nent:	
Agreement number:				
Agreement name:				
Keep application confidential? YES				
Permitting Agent? NO	APD Op	erator: BTA OIL I	PRODUCERS LL	С
Operator letter of designation:				
Operator Info				
Operator Organization Name: BTA OIL P		LLC		
Operator Address: 104 S. Pecos				
Operator PO Box:			<b>Zip:</b> 79701	
•	e: TX			
<b>Operator Phone:</b> (432)682-3753				
Operator Internet Address:				
Section 2 - Well Inform	ation	]		
Well in Master Development Plan? NO		Master Develop	ment Plan name	<b>a</b> :
Well in Master SUPO? NO		Master SUPO n		
Well in Master Drilling Plan? NO		Master Drilling		
Well Name: NORTH RIDGE 8040 FEDERA		Well Number: 4		Well API Number:
				Pool Name: BONE SPRING,
Field/Pool or Exploratory? Field and Pool		i IGIM IAGIIIC. AN		NORTH

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

Uperatur Manie. DIA UIL PRUDUUERO LLU

Well Name: NORTH RIDGE 8040 FEDERAL COM

Well Number: 4H

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

Is the proposed well in a Helium produ	iction area? N	Use Existing Well Pad? NO	New surface disturbance?			
Type of Well Pad: MULTIPLE WELL		Multiple Well Pad Name:	Number: 3, 4, & 7			
Well Class: HORIZONTAL		NORTH RIDGE FEDERAL COM Number of Legs:	1			
Well Work Type: Drill						
Well Type: OIL WELL						
Describe Well Type:						
Well sub-Type: INFILL						
Describe sub-type:						
Distance to town: 17 Miles	Distance to ne	arest well: 1437 FT Distance	e to lease line: 300 FT			
Reservoir well spacing assigned acres	Measurement:	240 Acres				
Well plat: North_Ridge_4H_c102_20	190611074744.p	odf				
Well work start Date: 11/11/2019		Duration: 30 DAYS				

### **Section 3 - Well Location Table**

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83

Survey number:

Vertical Datum: NGVD29 Reference Datum:

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	DVT	Will this well produce from this lease?
SHL	300	FNL	106	FEL	22S	34E	35	Aliquot	32.35459	-	LEA	NEW				340	0	0	
Leg			5					NENE	8	103.4357		MEXI			026396	7			
#1										73		co	co						
КОР	100	FNL	380	FEL	22S	34E	35	Aliquot	32.35514	-	LEA	NEW	NEW	F	NMNM	-	100	994	
Leg								NENE	8	103.4335		MEXI			026396	654	09	7	
#1										14		co	со			0			
PPP	100	FNL	380	FEL	22S	34E	35	Aliquot	32.35514	-	LEA	NEW	NEW	F	NMNM	-	102	101	
Leg								NENE	8	103.4335		MEXI	MEXI		026396	677	43	77	
#1-1										14		со	со			0			

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

APD ID: 10400042638

**Operator Name: BTA OIL PRODUCERS LLC** 

Well Name: NORTH RIDGE 8040 FEDERAL COM

Well Type: OIL WELL

Well Number: 4H



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Show Final Text

Well Work Type: Drill

Submission Date: 06/11/2019

### **Section 1 - Geologic Formations**

Formation			True Vertical				Producing
ID	Formation Name	Elevation	Depth	Depth	Lithologies	Mineral Resources	Formation
473274	473274 QUATERNARY		0	0	ALLUVIUM, CONGLOMERATE	NONE	N
473288	RUSTLER	1637	1770	1770	ANHYDRITE	NONE	N
473277	TOP SALT	1225	2182	2182		NONE	N
473279	BASE OF SALT	75	3332	3332		NONE	N
625158	CAPITAN REEF	-855	4262	4262		NONE	N
473278	DELAWARE	-2195	5602	5602		NATURAL GAS, OIL	N
473291	BELL CANYON	-2255	5662	5662		NATURAL GAS, OIL	N
473292	CHERRY CANYON	-2825	6232	6232		NATURAL GAS, OIL	N
473284	BRUSHY CANYON	-3740	7147	7147		NATURAL GAS, OIL	N
473289	BONE SPRING LIME	-5165	8572	8572		NATURAL GAS, OIL	N
473285	FIRST BONE SPRING SAND	-6245	9652	9652		NATURAL GAS, OIL	N
473293	BONE SPRING 2ND	-6770	10177	10177		NATURAL GAS, OIL	Y

### **Section 2 - Blowout Prevention**

Pressure Rating (PSI): 5M

Rating Depth: 11000

**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 BOP's 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. **Requesting Variance?** NO

Uperator Name: BTA OIL PRODUCERS LLC

### Well Name: NORTH RIDGE 8040 FEDERAL COM

Well Number: 4H

### Variance request: n/a

**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 driller's log. All BOP's and associated equipment will be tested as per BLM drilling Operations Order No. 2.

### Choke Diagram Attachment:

Choke\_Hose\_\_\_Test\_Chart\_and\_Specs\_20181129153440.pdf

5M\_choke\_mannifold\_20190211164346.pdf

### **BOP Diagram Attachment:**

5M\_BOP\_diagram\_20190211164555.pdf

### Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	17.5	13.375	NEW	API	N	0	1200	0	1200			1200	J-55	54.5	ST&C	2.2	5.3	DRY	7.9	DRY	13
	INTERMED IATE	12.2 5	9.625	NEW	API	N	0	5580	0	5580			5580	J-55	40	LT&C	1.7	1.4	DRY	2.3	DRY	2.8
_	PRODUCTI ON	8.75	5.5	NEW	API	N	0	18191	0	10520				P- 110	17	Βυττ	1.4	1.4	DRY	1.8	DRY	1.8

### **Casing Attachments**

Casing ID: 1 String Type: SURFACE

**Inspection Document:** 

Spec Document:

**Tapered String Spec:** 

### Casing Design Assumptions and Worksheet(s):

North\_Ridge\_4H\_Casing\_assumption\_20190610120317.JPG

Uperator Name: BTA UIL PRODUCERS LLC

### Well Name: NORTH RIDGE 8040 FEDERAL COM

Well Number: 4H

### **Casing Attachments**

Casing ID: 2 String Type:INTERMEDIATE
Inspection Document:
Spec Document:
•
Tapered String Spec:
Tapered String Spec.
Casing Design Assumptions and Worksheet(s):
North_Ridge_4H_Casing_assumption_20190610120327.JPG
North_Ridge_4H_Casing_assumption_20190610120327.JPG         Casing ID: 3       String Type: PRODUCTION
Casing ID: 3 String Type: PRODUCTION
Casing ID: 3 String Type: PRODUCTION
Casing ID: 3 String Type: PRODUCTION Inspection Document:
Casing ID: 3 String Type: PRODUCTION Inspection Document: Spec Document:
Casing ID: 3 String Type: PRODUCTION Inspection Document:

### Casing Design Assumptions and Worksheet(s):

North\_Ridge\_4H\_Casing\_assumption\_20190610120425.JPG

Section	4 - Ce	emen	t								
String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	865	695	1.73	13.5	1202. 35	100	Class C	2% CaCl2
SURFACE	Tail		865	1200	340	1.35	14.8	459	100	Class C	2% CaCl2
INTERMEDIATE	Lead		0	5025	1480	2.46	12.8	3640. 8	100	Class C	0.5% CaCl2
INTERMEDIATE	Tail		5025	5580	200	1.34	14.8	268	25	Class C	1% CaCl2
PRODUCTION	Lead		4580	9910	520	3.9	10.5	2028	60	25% Poz 75% Class C	0.4% Fluid Loss

Uperator Name: BTA UIL PRODUCERS LLC

### Well Name: NORTH RIDGE 8040 FEDERAL COM

### Well Number: 4H

tring Type	ead/Tail	tage Tool epth	op MD	Bottom MD	Quantity(sx)	ield	Density	u Ft	Excess%	ement type	dditives
St	Le	Sta Dej	٩	ы В	ð	, Xi	ă	Cu	ŵ	Ŭ	Ä
PRODUCTION	Tail		9910	1819	2095	1.25	14.4	2618.	25	Class H	0.2% LT Retarder
				1				75			

### **Section 5 - Circulating Medium**

**Circulating Medium Table** 

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

		<b>_</b>									
Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	Н	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	1200	OTHER : FW Spud	8.3	8.4							
1200	5580	OTHER : Saturated Brine	10	10.2							
5580	1052 0	OTHER : Cut Brine	8.7	9.3							

Uperator Name: BTA OIL PRODUCERS LLC

Well Name: NORTH RIDGE 8040 FEDERAL COM

Well Number: 4H

### Section 6 - Test, Logging, Coring

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

Drill Stem Tests will be based on geological sample shows.

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

CBL,GR,MUDLOG

Coring operation description for the well:

None planned

### **Section 7 - Pressure**

Anticipated Bottom Hole Pressure: 5142

Anticipated Surface Pressure: 2827.6

Anticipated Bottom Hole Temperature(F): 164

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:

H2S\_Plan\_20181129153648.pdf H2S\_Equipment\_Schematic\_20181129153733.pdf BTA\_Oil\_Producers\_LLC\_\_\_EMERGENCY\_CALL\_LIST\_20190205154800.pdf

### Section 8 - Other Information

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

North\_Ridge\_4H\_Gas\_Capture\_Plan\_20190610121910.pdf North\_Ridge\_\_04H\_directional\_plan\_20190610121921.pdf North\_Ridge\_\_04H\_Wall\_plot\_20190610121921.pdf

### Other proposed operations facets description:

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

### Other proposed operations facets attachment:

### Other Variance attachment:

Casing\_Head\_Running\_Procedure\_20181129153916.pdf WH\_SCHEMATIC\_13.375\_9.625\_5.5\_20190514121902.pdf



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

WE TV ME DRILLING PLAN

 WELL:
 North Ridge #04H

 TVD:
 10520

 MD:
 18191

Casing Program

Hole Size	Csg.Size	From (MD)	To (MD)	From (TVD)	To (TVD)	Tapered String	Weight (lbs)	Grade	Conn.	Collapse	Burst	Body Tension	Joint Tension	Dry/ Buoyant	Mud Weight (ppg)
17 1/2	13 3/18	0	1200	0	1200	No	54.5	1-55	STC	2.2	5.3	13.0	7.9	Dry	8.3
12 1/4	9 5/8	0	5580	0	5580	No	40	1-55	LTC	1.7	1.4	2.8	2.3	Dry	10
8 3/4	5.5	D	18191	o	10520	No	17	P110	Buttress	1.4	1.4	1.8	1.8	Dry	9.4
				-											

# 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 (H<sub>2</sub>S).
- b. The proper use and maintenance of personal protective equipment and life support systems.
- c. The proper use of H<sub>2</sub>S detectors, alarms, warning systems, briefing areas, evacuation procedures, and prevailing winds.
- d. The proper techniques for first aid and rescue procedures.

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

- a. The effects of H2S on metal components. If high tensile tubulars are to be used, personnel will be trained in their special maintenance requirements.
- b. Corrective action and shut-in procedures when drilling or reworking a well and blowout prevention and well control procedures.
- c. The contents and requirements of the H<sub>2</sub>S 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>H<sub>2</sub>S SAFETY EQUIPMENT AND SYSTEMS</u>

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

Well Control Equipment:

Flare line.

a.

Choke manifold with remotely operated choke.

Blind rams and pipe rams to accommodate all pipe sizes with properly sized closing unit.

Auxiliary equipment to include: annular preventer, mud-gas separator, rotating head.

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

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

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

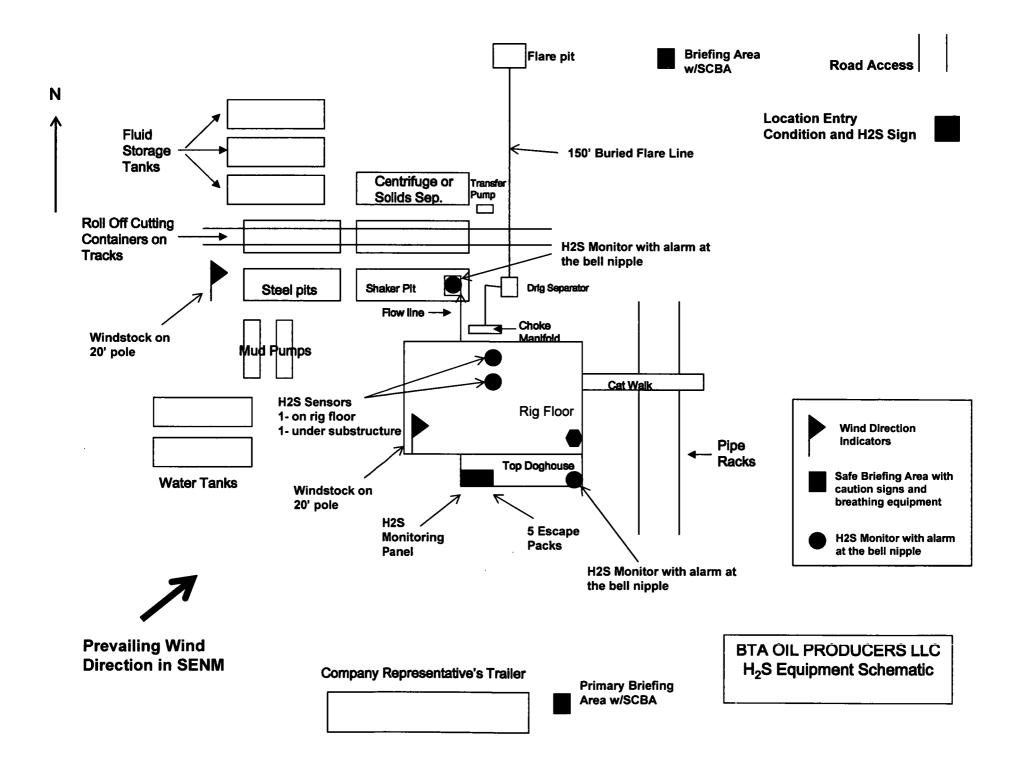
# WARNING

### YOU ARE ENTERING AN H<sub>2</sub>S 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 #04H

Wellbore #1

Plan: Design #1

# **Standard Planning Report - Geographic**

15 May, 2019

Planning Report - Geographic

Database: Company: Project: Site: Well: Wellbore: Design:	Lea C North North Wellbo Desig		AD 83)		TVD Refe MD Refer North Ref	ence:		Well North Ridgo GL @ 3407.0ust GL @ 3407.0ust Grid Minimum Curvat	ft ft	
Project Map System:	US State	ounty, NM (NA e Plane 1983 merican Datur	ND 83), Lea Cou	unty, NM	System Da	tum:	Gr	ound Level		
Geo Datum: Map Zone:		xico Eastern 2					Us	ing geodetic sca	ale factor	
Site	North F	Ridge								
Site Position: From: Position Uncer	Maş tainty:	•	North Easti 0.0 usft Slot I	-		,872.00 usft ,680.00 usft 13–3/16 "	Latitude: Longitude: Grid Converg	ence:		32° 21' 16.544 N 103° 26' 41.649 W 0.48 °
Well	North F	Ridge #04H								
Well Position	+N/-S +E/-W tainty		0.0 usft E	orthing: asting: /ellhead Eleva	tion:	493,896.00 818,511.00	) usft Lor	itude: gitude: ound Level:		32° 21' 16.548 N 103° 26' 8.646 W 3,407.0 usft
Wellbore	Wellbo	one #1						· -		·
Magnetics		odel Name	Samp	le Date	Declina (°)	ition	Dip A (°	-		Strength (nT)
		IGRF20051	0	12/31/2009		7.70		60.39		887.14525475
Design	Design	n #1								
Audit Notes:						_				
Version:			Phas		PROTOTYPE		On Depth:		0.0	
Vertical Sectior	1.		Depth From (T (usft) 0.0	VD)	+N/-S (usft) 0.0	(u	<b>:/-W</b> sft) ).0		ection (°) 4.42	
Plan Survey To Depth Fro (usft) 1	om Depti (us	ft) Surve	4/22/2019 y (Wellbore) n #1 (Wellbore a	¥1)	Tool Name		Remarks			
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
(uait)		0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
0.0			E 4 E 4 O	0.0	0.0	0.00	0.00	0.00 0.00	0.00	
0.0 5,151.9	0.00	0.00	5,151.9		40.0	~ ~ ~ ~				
0.0 5,151.9 5,651.9	0.00 10.00	67.77	5,649.3	16.5	40.3 644 7	2.00	2.00		67.77 0.00	
0.0 5,151.9 5,651.9 9,412.2	0.00 10.00 10.00				40.3 644.7 685.0	2.00 0.00 2.00	2.00 0.00 -2.00	0.00	0.00 180.00	
0.0 5,151.9 5,651.9	0.00 10.00 10.00 0.00	67.77 67.77	5,649.3 9,352.5	16.5 263.5	644.7	0.00	0.00		0.00	
0.0 5,151.9 5,651.9 9,412.2 9,912.2	0.00 10.00 10.00 0.00 0.00	67.77 67.77 0.00	5,649.3 9,352.5 9,850.0	16.5 263.5 280.0	644.7 685.0	0.00 2.00	0.00 -2.00	0.00 0.00	0.00 180.00	

COMPASS 5000.15 Build 91

1

Planning Report - Geographic

Database:OldCompany:BTA Oil Producers, LLCProject:Lea County, NM (NAD 83)Site:North RidgeWell:North Ridge #04HWellbore:Wellbore #1Design:Design #1

### Planned Survey

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Well North Ridge #04H GL @ 3407.0usft GL @ 3407.0usft Grid Minimum Curvature

Measured			Vertical			Мар	Мар		
Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Northing	Easting		
(usft)	(*)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	Latitude	Longitude
0.0	0.00	0.00	0.0	0.0	0.0	493,896.00	818,511.00	32° 21' 16.548 N	103° 26' 8.646 W
100.0	0.00	0.00	100.0	0.0	0.0	493,896.00	818,511.00	32° 21' 16.548 N	103° 26' 8.646 W
200.0	0.00	0.00	200.0	0.0	0.0	493,896.00	818,511.00	32° 21' 16.548 N	103° 26' 8.646 W
300.0	0.00	0.00	300.0	0.0	0.0	493,896.00	818,511.00	32° 21' 16.548 N	103° 26' 8.646 W
400.0	0.00	0.00	400.0	0.0	0.0	493,896.00	818,511.00	32° 21' 16.548 N	103° 26' 8.646 W
500.0	0.00	0.00	500.0	0.0	0.0	493,896.00	818,511.00	32° 21' 16.548 N	103° 26' 8.646 W
600.0	0.00	0.00	600.0	0.0	0.0	493,896.00	818,511.00	32° 21' 16.548 N	103° 26' 8.646 W
700.0	0.00	0.00	700.0	0.0	0.0	493,896.00	818,511.00	32° 21' 16.548 N	103° 26' 8.646 W
800.0	0.00	0.00	800.0	0.0	0.0	493,896.00	818,511.00	32° 21' 16.548 N	103° 26' 8.646 W
900.0	0.00	0.00	900.0	0.0	0.0	493,896.00	818,511.00	32° 21' 16.548 N	103° 26' 8.646 W
1,000.0	0.00	0.00	1,000.0	0.0	0.0	493,896.00	818,511.00	32° 21' 16.548 N	103° 26' 8.646 W
1,100.0	0.00	0.00	1,100.0	0.0	0.0	493,896.00	818,511.00	32° 21' 16.548 N	103° 26' 8.646 W
1,200.0	0.00	0.00	1,200.0	0.0	0.0	493,896.00	818,511.00	32° 21' 16.548 N	103° 26' 8.646 W
1,300.0	0.00	0.00	1,300.0	0.0	0.0	493,896.00	818,511.00	32° 21' 16.548 N	103° 26' 8.646 W
1,400.0	0.00	0.00	1,400.0	0.0	0.0	493,896.00	818,511.00	32° 21' 16.548 N	103° 26' 8.646 W
1,500.0	0.00	0.00	1,500.0	0.0	0.0	493,896.00	818,511.00	32° 21' 16.548 N	103° 26' 8.646 W
1,600.0	0.00	0.00	1,600.0	0.0	0.0	493,896.00	818,511.00	32° 21' 16.548 N	103° 26' 8.646 W
1,700.0	0.00	0.00	1,700.0	0.0	0.0	493,896.00	818,511.00	32° 21' 16.548 N	103° 26' 8.646 W
1,800.0	0.00	0.00	1,800.0	0.0	0.0	493,896.00	818,511.00	32° 21' 16.548 N	103° 26' 8.646 W
1,900.0	0.00	0.00	1,900.0	0.0	0.0	493,896.00	818,511.00	32° 21' 16.548 N	103° 26' 8.646 W
2,000.0	0.00	0.00	2,000.0	0.0	0.0	493,896.00	818,511.00	32° 21' 16.548 N	103° 26' 8.646 W
2,100.0	0.00	0.00	2,100.0	0.0	0.0	493,896.00	818,511.00	32° 21' 16.548 N	103° 26' 8.646 W
2,200.0	0.00	0.00	2,200.0	0.0	0.0	493,896.00	818,511.00	32° 21' 16.548 N	103° 26' 8.646 W
2,300.0	0.00	0.00	2,300.0	0.0	0.0	493,896.00	818,511.00	32° 21' 16.548 N	103° 26' 8.646 W
2,400.0	0.00	0.00	2,400.0	0.0	0.0	493,896.00	818,511.00	32° 21' 16.548 N	103° 26' 8.646 W
2,500.0	0.00	0.00	2,500.0	0.0	0.0	493,896.00	818,511.00	32° 21' 16,548 N	103° 26' 8.646 W
2,600.0	0.00	0.00	2,600.0	0.0	0.0	493,896.00	818,511.00	32° 21' 16.548 N	103° 26' 8.646 W
2,700.0	0.00	0.00	2,700.0	0.0	0.0	493,896.00	818,511.00	32° 21' 16.548 N	103° 26' 8.646 W
2,800.0	0.00	0.00	2,800.0	0.0	0.0	493,896.00	818,511.00	32° 21' 16.548 N	103° 26' 8.646 W
2,900.0	0.00	0.00	2,900.0	0.0	0.0	493,896.00	818,511.00	32° 21' 16.548 N	103° 26' 8.646 W
3,000.0	0.00	0.00	3,000.0	0.0	0.0	493,896.00	818,511.00	32° 21' 16.548 N	103° 26' 8.646 W
3,100.0	0.00	0.00	3,100.0	0.0	0.0	493,896.00	818,511.00	32° 21' 16.548 N	103° 26' 8.646 W
3,200.0	0.00	0.00	3,200.0	0.0	0.0	493,896.00	818,511.00	32° 21' 16.548 N	103° 26' 8.646 W
3,300.0	0.00	0.00	3,300.0	0.0	0.0	493,896.00	818,511.00	32° 21' 16.548 N	103° 26' 8.646 W
3,400.0	0.00	0.00	3,400.0	0.0	0.0	493,896.00	818,511.00	32° 21' 16.548 N	103° 26' 8.646 W
3,500.0	0.00	0.00	3,500.0	0.0	0.0	493,896.00	818,511.00	32° 21' 16.548 N	103° 26' 8.646 W
3,600.0	0.00	0.00	3,600.0	0.0	0.0	493,896.00	818,511.00	32° 21' 16.548 N	103° 26' 8.646 W
3,700.0	0.00	0.00	3,700.0	0.0	0.0	493,896.00	818,511.00	32° 21' 16.548 N	103° 26' 8.646 W
3,800.0	0.00	0.00	3,800.0	0.0	0.0	493,896.00	818,511.00	32° 21' 16.548 N	103° 26' 8.646 W
3,900.0	0.00	0.00	3,900.0	0.0	0.0	493,896.00	818,511.00	32° 21' 16.548 N	103° 26' 8.646 W
4,000.0	0.00	0.00	4,000.0	0.0	0.0	493,896.00	818,511.00	32° 21' 16.548 N	103° 26' 8.646 W
4,100.0	0.00	0.00	4,100.0	0.0	0.0	493,896.00	818,511.00	32° 21' 16.548 N	103° 26' 8.646 W
4,200.0	0.00	0.00	4,200.0	0.0	0.0	493,896.00	818,511.00	32° 21' 16.548 N	103° 26' 8.646 W
4,300.0	0.00	0.00	4,300.0	0.0	0.0	493,896.00	818,511.00	32° 21' 16.548 N	103° 26' 8.646 W
4,400.0	0.00	0.00	4,400.0	0.0	0.0	493,896.00	818,511.00	32° 21' 16.548 N	103° 26' 8.646 W
4,500.0	0.00	0.00	4,500.0	0.0	0.0	493,896.00	818,511.00	32° 21' 16.548 N	103° 26' 8.646 W
4,600.0	0.00	0.00	4,600.0	0.0	0.0	493,896.00	818,511.00	32° 21' 16.548 N	103° 26' 8.646 W
4,700.0	0.00	0.00	4,700.0	0.0	0.0	493,896.00	818,511.00	32° 21' 16.548 N	103° 26' 8.646 W
4,800.0	0.00	0.00	4,800.0	0.0	0.0	493,896.00	818,511.00	32° 21' 16.548 N	103° 26' 8.646 W
4,900.0	0.00	0.00	4,900.0	0.0	0.0	493,896.00	818,511.00	32° 21' 16.548 N	103° 26' 8.646 W
5,000.0	0.00	0.00	5,000.0	0.0	0.0	493,896.00	818,511.00	32° 21' 16.548 N	103° 26' 8.646 W
5,100.0	0.00	0.00	5,100.0	0.0	0.0	493,896.00	818,511.00	32° 21' 16.548 N	103° 26' 8.646 W
5,151.9	0.00	0.00	5,151.9	0.0	0.0	493,896.00	818,511.00	32° 21' 16.548 N	103° 26' 8.646 W
5,200.0	0.96	67.77	5,200.0	0.2	0.4	493,896.15	818,511.37	32° 21' 16.549 N	103° 26' 8.641 W
5,300.0	2.96	67.77	5,299.9	1.4	3.5	493,897.45	818,514.54	32° 21' 16.562 N	103° 26' 8.604 W

5/15/2019 8:30:16AM

COMPASS 5000.15 Build 91

Planning Report - Geographic

**TVD Reference:** 

MD Reference:

North Reference:

Local Co-ordinate Reference:

Survey Calculation Method:

Well North Ridge #04H

GL @ 3407.0usft

GL @ 3407.0usft

**Minimum Curvature** 

Grid

Database:OldCompany:BTA Oil Producers, LLCProject:Lea County, NM (NAD 83)Site:North RidgeWell:North Ridge #04HWellbore:Wellbore #1Design:Design #1

Planned Survey

Planned Survey	1								
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
5,400.0		67.77	5,399.7	4.1	9.9	493,900.06	818,520.94	32° 21' 16.587 N	103° 26' 8.529 W
5,500.0		67.77	5,399.7	8.0	19.6	493,903.99	818,530.55	32° 21' 16.625 N	103° 26' 8.417 W
5,600.0		67.77	5,598.2	13.2	32.4	493,909.24	818,543.37	32° 21' 16.676 N	103° 26' 8.267 W
5,651.9		67.77	5,649.3	16.5	40.3	493,912.47	818,551.29	32° 21' 16.707 N	103° 26' 8.175 W
5,700.0		67.77	5,696.7	19.6	48.0	493,915.63	818,559.02	32° 21' 16.738 N	103° 26' 8.084 W
5,800.0		67.77	5,795.2	26.2	64.1	493,922,20	818,575.09	32° 21' 16.802 N	103° 26' 7.896 W
5,900.0		67.77	5,893.7	32.8	80.2	493,928.77	818,591.17	32° 21' 16.865 N	103° 26' 7.708 W
6,000.0	10.00	67.77	5,992.2	39.3	96.2	493,935.34	818,607.24	32° 21' 16.929 N	103° 26' 7.520 W
6,100.0		67.77	6,090.7	45.9	112.3	493,941.91	818,623,31	32° 21' 16.993 N	103° 26' 7.332 W
6,200.0		67.77	6,189.1	52.5	128.4	493,948.48	818,639,39	32° 21' 17.056 N	103° 26' 7.144 W
6,300.0	10.00	67.77	6,287.6	59.1	144.5	493,955.05	818,655.46	32° 21' 17.120 N	103° 26' 6.956 W
6,400.0		67.77	6,386.1	65.6	160.5	493,961.62	818,671.54	32° 21' 17.184 N	103° 26' 6.768 W
6,500.0		67.77	6,484.6	72.2	176.6	493,968.19	818,687.61	32° 21' 17.247 N	103° 26' 6.580 W
6,600.0	10.00	67.77	6,583.1	78.8	192,7	493,974.76	818,703.68	32° 21' 17.311 N	103° 26' 6.392 W
6,700.0		67.77	6,681.5	85.3	208.8	493,981.33	818,719.76	32° 21' 17.375 N	103° 26' 6.204 W
6,800.0		67.77	6,780.0	91.9	224.8	493,987.90	818,735.83	32° 21' 17.438 N	103° 26' 6.016 W
6,900.0	10.00	67.77	6,878.5	98.5	240.9	493,994.47	818,751,90	32° 21' 17.502 N	103° 26' 5.828 W
7,000.0	10.00	67.77	6,977.0	105.0	257.0	494,001.04	818,767.98	32° 21' 17.566 N	103° 26' 5.640 W
7,100.0	10.00	67.77	7,075.5	111.6	273.1	494,007.61	818,784.05	32° 21' 17.629 N	103° 26' 5.452 W
7,200.0	10.00	67.77	7,173.9	118.2	289.1	494,014.18	818,800.13	32° 21' 17.693 N	103° 26' 5.264 W
7,300.0	10.00	67,77	7,272.4	124.8	305.2	494,020.75	818,816.20	32° 21' 17.757 N	103° 26' 5.076 W
7,400.0	10.00	67,77	7,370.9	131,3	321.3	494,027.33	818,832.27	32° 21' 17.820 N	103° 26' 4.888 W
7,500.0	10.00	67.77	7,469.4	137.9	337.3	494,033.90	818,848.35	32° 21' 17.884 N	103° 26' 4.700 W
7,600.0	10.00	67.77	7,567.9	144.5	353.4	494,040.47	818,864.42	32° 21' 17.948 N	103° 26' 4.512 W
7,700.0	10.00	67.77	7,666.3	151.0	369.5	494,047.04	818,880.49	32° 21' 18.011 N	103° 26' 4.324 W
7,800.0	10.00	67.77	7,764.8	157.6	385.6	494,053.61	818,896.57	32° 21' 18.075 N	103° 26' 4.136 W
7,900.0	10.00	67.77	7,863.3	164.2	401.6	494,060.18	818,912.64	32° 21' 18.139 N	103° 26' 3.948 W
8,000.0	10.00	67.77	7,961.8	170.7	417.7	494,066.75	818,928.72	32° 21' 18.202 N	103° 26' 3.760 W
8,100.0	10.00	67,77	8,060.3	177.3	433.8	494,073.32	818,944.79	32° 21' 18.266 N	103° 26' 3.572 W
8,200.0	10.00	67.77	8,158.8	183.9	449.9	494,079.89	818,960.86	32° 21' 18.330 N	103° 26' 3.384 W
8,300.0	10.00	67.77	8,257.2	190.5	465.9	494,086.46	818,976.94	32° 21' 18.393 N	103° 26' 3.196 W
8,400.0	10.00	67.77	8,355.7	197.0	482.0	494,093.03	818,993.01	32° 21' 18.457 N	103° 26' 3.008 W
8,500.0	10.00	67.77	8,454.2	203.6	498.1	494,099.60	819,009.09	32° 21' 18.521 N	103° 26' 2.820 W
8,600.0	10.00	67.77	8,552.7	210.2	514.2	494,106.17	819,025.16	32° 21' 18.584 N	103° 26' 2.632 W
8,700.0	10.00	67.77	8,651.2	216.7	530.2	494,112.74	819,041.23	32° 21' 18.648 N	103° 26' 2.444 W
8,800.0	10.00	67.77	8,749.6	223.3	546.3	494,119.31	819,057.31	32° 21' 18.712 N	103° 26' 2.256 W
8,900.0	10.00	67.77	8,848.1	229.9	562.4	494,125.88	819,073.38	32° 21' 18.776 N	103° 26' 2.068 W
9,000.0	10.00	67.77	8,946.6	236.4	578.5	494,132.45	819,089.45	32° 21' 18.839 N	103° 26' 1.880 W
9,100.0	10.00	67.77 67.77	9,045.1	243.0	594.5	494,139.02	819,105.53	32° 21' 18.903 N	103° 26' 1.692 W
9,200.0	10.00		9,143.6	249.6	610.6	494,145.59	819,121.60 810,127,68	32° 21' 18.967 N	103° 26' 1.503 W
9,400.0	10.00	67.77 67.77	9,242.0 9,340.5	256.2	626.7 642 8	494,152.16	819,137.68 810,152,75	32° 21' 19.030 N	103° 26' 1.315 W 103° 26' 1.127 W
9,400.0	10.00	67.77 67.77	9,340.5 9,352.5	262.7 263.5	642.8 644.7	494,158.73	819,153.75	32° 21' 19.094 N	
						494,159.53	819,155.71	32° 21' 19.102 N	103° 26' 1.105 W
9,500.0	8.24	67.77 67.77	9,439.2 9,538.4	268.8	657.6	494,164.80	819,168.59	32° 21' 19.153 N	103° 26' 0.954 W
9,600.0 9,700.0	6.24	67.77		273.6 277.0	669.3 677.7	494,169.57	819,180.27	32° 21' 19,199 N	103° 26' 0.817 W
	4.24		9,638.0			494,173.03	819,188.73	32° 21' 19.232 N	103° 26' 0.718 W
9,800.0	2.24	67.77 67.77	9,737.8 9,837.8	279.2 280.0	683.0 685.0	494,175.17	819,193.96 819 195 97	32° 21' 19.253 N 32° 21' 19.261 N	103° 26' 0.657 W
9,900.0	0.24 0.00	0.00	9,837.8 9,850.0	280.0 280.0	685.0	494,175.99	819,195.97 819 196 00		103° 26' 0.634 W 103° 26' 0.633 W
10,000.0	0.00	0.00	9,850.0 9,937.8	280.0	685.0	494,176.00 494,176.00	819,196.00 819,196.00	32° 21' 19.261 N	103° 26' 0.633 W
10,000.0		0.00	9,937.8 9,947.0	280.0	685.0			32° 21' 19.261 N 32° 21' 19.261 N	
	9.08					494,176.00 494,168.83	819,196.00 819,196.05		103° 26' 0.633 W
10,100.0		179.60 179.60	10,037.4 10 134 3	272.8 248.5	685.1 685.2			32° 21' 19.190 N 32° 21' 18 950 N	103° 26' 0.633 W
1 .	19.08 29.08	179.60 179.60	10,134.3 10,225.5		685.2 685.5	494,144.54	819,196.22	32° 21' 18.950 N 32° 21' 18 547 N	103° 26' 0.634 W
10,300.0	29.08	179.60 179.60	10,225.5	207.8	685.5 685.9	494,103.80	819,196.50 819 196 89	32° 21' 18.547 N 32° 21' 17 993 N	103° 26' 0.634 W
10,400.0	39.08	179.60	10,308.2	151.8	685.9	494,047.84	819,196.89	32° 21' 17.993 N	103° 26' 0.635 W

5/15/2019 8:30:16AM

COMPASS 5000.15 Build 91

Planning Report - Geographic

Database:OldCompany:BTA Oil Producers, LLCProject:Lea County, NM (NAD 83)Site:North RidgeWell:North Ridge #04HWellbore:Wellbore #1Design:Design #1

### Planned Survey

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Well North Ridge #04H GL @ 3407.0usft GL @ 3407.0usft Grid Minimum Curvature

Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Map Northing	Map Easting		
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	Latitude	Longitude
10,500.0	49.08	179.60	10,380.0	82.4	686.4	493,978.37	819,197.38	32° 21' 17.306 N	103° 26' 0.637 W
10,600.0	59.08	179.60	10,438.6	1.5	687.0	493,897.49	819,197.95	32° 21' 16.505 N	103° 26' 0.638 W
10,700.0	69.08	179.60	10,482.2	-88.3	687.6	493,807.67	819,198.58	32° 21' 15.617 N	103° 26' 0.639 W
10,800.0	79.08	179.60	10,509.6	-184.4	688.3	493,711.63	819,199.25	32° 21' 14.666 N	103° 26' 0.641 W
10,900.0	89.08	179.60	10,519.9	-283.7	688.9	493,612.30	819,199.94	32° 21' 13.683 N	103° 26' 0.643 W
10,909.2	90.00	179.60	10,520.0	-292.9	689.0	493,603.06	819,200.01	32° 21' 13,592 N	103° 26' 0.643 W
11,000.0	90.00	179.60	10,520.0	-383.7	689.6	493,512.30	819,200.64	32° 21' 12.694 N	103° 26' 0.644 W
11,100.0	90.00	179.60	10,520.0	-483.7	690.3	493,412.30	819,201.34	32° 21' 11.704 N	103° 26' 0.646 W
11,200.0	90.00	179.60	10,520.0	-583.7	691.0	493,312.31	819,202.04	32° 21' 10.715 N	103° 26' 0.647 W
11,300.0	90.00	179.60	10,520.0	-683.7	691.7	493,212.31	819,202.75	32° 21' 9.725 N	103° 26' 0.649 W
11,400.0	90.00	179.60	10,520.0	-783.7	692.4	493,112.31	819,203.45	32° 21' 8.736 N	103° 26' 0.651 W
11,500.0	90.00 90,00	179.60 179.60	10,520.0	-883.7 -983.7	693.1 693.8	493,012.31	819,204.15	32° 21' 7.746 N	103° 26' 0.652 W
11,600.0 11,700.0	90.00	179.60	10,520.0 10,520.0	-963.7 -1,083.7	693.8 694.5	492,912.32 492,812.32	819,204.85 819,205.55	32° 21' 6.757 N 32° 21' 5.767 N	103° 26' 0.654 W 103° 26' 0.656 W
11,800.0	90.00	179.60	10,520.0	-1,183.7	695.3	492,712.32	819,206.25	32° 21' 4.778 N	103° 26' 0.657 W
11,900.0	90.00	179.60	10,520.0	-1,283.7	696.0	492,612.32	819,206.95	32° 21' 3.788 N	103° 26' 0.659 W
12,000.0	90.00	179.60	10,520.0	-1,383.7	696.7	492,512.33	819,207.65	32° 21' 2.799 N	103° 26' 0.660 W
12,100.0	90.00	179.60	10,520.0	-1,483.7	697.4	492,412.33	819,208.35	32° 21' 1.809 N	103° 26' 0.662 W
12,200.0	90.00	179.60	10,520.0	-1,583.7	698.1	492,312.33	819,209.05	32° 21' 0.820 N	103° 26' 0.664 W
12,300.0	90.00	179.60	10,520.0	-1,683.7	698.8	492,212.34	819,209.75	32° 20' 59.830 N	103° 26' 0.665 W
12,400.0	90.00	179.60	10,520.0	-1,783.7	699.5	492,112.34	819,210.45	32° 20' 58.841 N	103° 26' 0.667 W
12,500.0	90.00	179.60	10,520.0	-1,883.7	700.2	492,012.34	819,211.15	32° 20' 57.851 N	103° 26' 0,669 W
12,600.0	90.00	179.60	10,520.0	-1,983.7	700.9	491,912.34	819,211.85	32° 20' 56.862 N	103° 26' 0.670 W
12,700.0	90.00	179.60	10,520.0	-2,083.7	701.6	491,812.35	819,212.55	32° 20' 55.872 N	103° 26' 0.672 W
12,800.0	90.00	179.60	10,520.0	-2,183.7	702.3	491,712.35	819,213.25	32° 20' 54.883 N	103° 26' 0.674 W
12,900.0	90.00	179.60	10,520.0	-2,283.7	703.0	491,612.35	819,213,95	32° 20' 53.893 N	103° 26' 0.675 W
13,000.0	90.00	179.60	10,520.0	-2,383.7	703.7	491,512.35	819,214.65	32° 20' 52.904 N	103° 26' 0.677 W
13,100.0	90.00	179.60	10,520.0	-2,483.7	704.4	491,412.36	819,215.35	32° 20' 51.914 N	103° 26' 0.678 W
13,200.0	90.00	179.60	10,520.0	-2,583.6	705.1	491,312.36	819,216.05	32° 20' 50,925 N	103° 26' 0.680 W
13,300.0	90.00	179.60	10,520.0	-2,683.6	705.8	491,212.36	819,216,75	32° 20' 49,935 N	103° 26' 0.682 W
13,400.0	90.00	179.60	10,520.0	-2,783.6	706.5	491,112.37	819,217.45	32° 20' 48.946 N	103° 26' 0.683 W
13,500.0	90.00	179.60 179.60	10,520.0 10,520.0	-2,883.6 -2,983.6	707.2 707. <del>9</del>	491,012.37 490,912.37	819,218.15 819,218.85	32° 20' 47.956 N 32° 20' 46,967 N	103° 26' 0.685 W 103° 26' 0.687 W
13,600.0 13,700.0	90.00 90.00	179.60	10,520.0	-2,983.6	707.9	490,812.37	819,219.55	32° 20' 45.977 N	103° 26' 0.688 W
13,800.0	90.00	179.60	10,520.0	-3,183.6	709.3	490,712.38	819,220.25	32° 20' 44.988 N	103° 26' 0.690 W
13,900.0	90.00	179.60	10,520.0	-3,283.6	710.0	490,612.38	819,220.95	32° 20' 43.998 N	103° 26' 0.691 W
14,000.0	90.00	179.60	10,520.0	-3,383.6	710,7	490,512.38	819,221.65	32° 20' 43.009 N	103° 26' 0.693 W
14,100.0	90.00	179.60	10,520.0	-3,483.6	711.4	490,412.38	819,222.35	32° 20' 42.019 N	103° 26' 0.695 W
14,200.0	90.00	179.60	10,520.0	-3,583.6	712.1	490,312.39	819,223.05	32° 20' 41.030 N	103° 26' 0.696 W
14,300.0	90.00	179.60	10,520.0	-3,683.6	712.8	490,212.39	819,223.75	32° 20' 40.040 N	103° 26' 0.698 W
14,400.0	90.00	179.60	10,520.0	-3,783.6	713.5	490,112.39	819,224.45	32° 20' 39.051 N	103° 26' 0.700 W
14,500.0	90.00	179.60	10,520.0	-3,883.6	714.2	490,012.40	819,225.15	32° 20' 38.061 N	103° 26' 0.701 W
14,600.0	90.00	179.60	10,520.0	-3,983.6	714.9	489,912.40	819,225.85	32° 20' 37.072 N	103° 26' 0.703 W
14,700.0	90.00	179.60	10,520.0	-4,083.6	715.6	489,812.40	819,226.55	32° 20' 36.082 N	103° 26' 0.705 W
14,800.0	90.00	179.60	10,520.0	-4,183.6	716.3	489,712.40	819,227.26	32° 20' 35.093 N	103° 26' 0.706 W
14,900.0	90.00	179.60	10,520.0	-4,283.6	717.0	489,612.41	819,227.96	32° 20' 34.103 N	103° 26' 0.708 W
15,000.0	90.00	179.60	10,520.0	-4,383.6	717.7	489,512.41	819,228.66	32° 20' 33.114 N	103° 26' 0.709 W
15,100.0	90.00	179.60	10,520.0	-4,483.6	718.4	489,412.41	819,229.36	32° 20' 32.124 N	103° 26' 0.711 W
15,200.0	90.00	179.60	10,520.0	-4,583.6	719.1	489,312.41	819,230.06	32° 20' 31.135 N	103° 26' 0.713 W
15,300.0	90.00	179.60	10,520.0	-4,683.6	719.8	489,212.42	819,230.76	32° 20' 30.145 N	103° 26' 0.714 W
15,400.0	90.00	179.60	10,520.0	-4,783.6	720.5	489,112.42	819,231.46	32° 20' 29.156 N	103° 26' 0.716 W
15,500.0	90.00	179.60	10,520.0	-4,883.6	721.2	489,012.42	819,232.16	32° 20' 28.166 N	103° 26' 0.718 W
15,600.0	90.00	179.60	10,520.0	-4,983.6	721.9 722 6	488,912.43	819,232.86 819,233.56	32° 20' 27.177 N	103° 26' 0.719 W
15,700.0	90.00	179.60	10,520.0	-5,083.6	722.6 723.3	488,812.43	819,233.56 819,234,26	32° 20' 26.187 N	103° 26' 0.721 W
15,800.0	90.00	179.60	10,520.0	-5,183.6	723.3	488,712.43	819,234.26	32° 20' 25.198 N	103° 26' 0.722 W

COMPASS 5000.15 Build 91

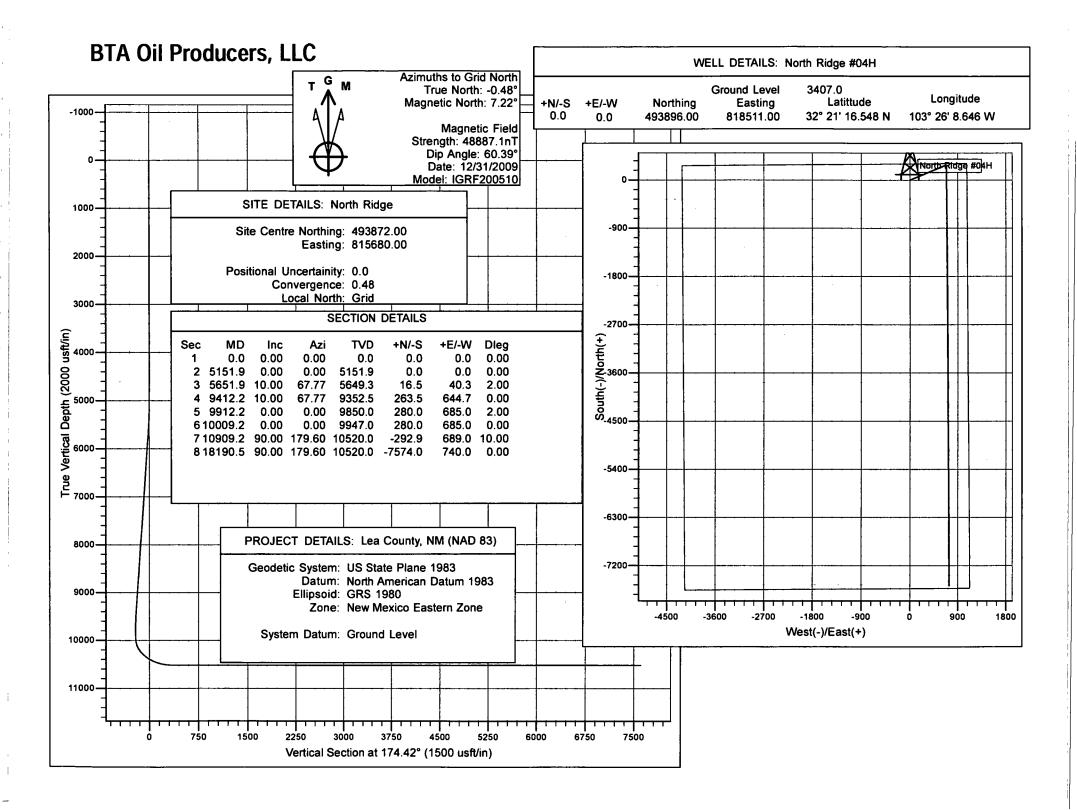
### Planning Report - Geographic

Database:OldCompany:BTA Oil Producers, LLCProject:Lea County, NM (NAD 83)Site:North RidgeWell:North Ridge #04HWellbore:Wellbore #1Design:Design #1

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Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Well North Ridge #04H GL @ 3407.0usft GL @ 3407.0usft Grid Minimum Curvature

Measured Depth (usft)	inclination (°)	Azimuth (°)	•		⊧E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
15,900.0	90.00	179.60	10,520.0	-5,283.6	724.0	488,612.43	819,234.96	32° 20' 24.208 N	103° 26' 0.724
16,000.0	90.00	179.60	10,520.0	-5,383.6	724.7	488,512.44	819,235.66	32° 20' 23.219 N	103° 26' 0.72
16,100.0	90.00	179.60	10,520.0	-5,483.6	725.4	488,412.44	819,236.36	32° 20' 22.229 N	103° 26' 0.72
16,200.0	90.00	179.60	10,520.0	-5,583.6	726.1	488,312.44	819,237.06	32° 20' 21.240 N	103° 26' 0.72
16,300.0	90.00	179.60	10,520.0	-5,683.6	726.8	488,212.45	819,237.76	32° 20' 20.251 N	103° 26' 0.73
16,400.0	90.00	179.60	10,520.0	-5,783.6	727.5	488, 112.45	819,238.46	32° 20' 19.261 N	103° 26' 0.73
16,500.0	90.00	179.60	10,520.0	-5,883.6	728.2	488,012.45	819,239.16	32° 20' 18.272 N	103° 26' 0.7
16,600.0	90.00	179.60	10,520.0	-5,983.6	728.9	487,912.45	819,239.86	32° 20' 17.282 N	103° 26' 0.7
16,700.0	90.00	179.60	10,520.0	-6,083.6	729.6	487,812.46	819,240.56	32° 20' 16,293 N	103° 26' 0.7
16,800.0	90.00	179.60	10,520.0	-6,183.6	730.3	487,712.46	819,241.26	32° 20' 15.303 N	103° 26' 0.7
16,900.0	90.00	179.60	10,520.0	-6,283.6	731.0	487,612.46	819,241.96	32° 20' 14.314 N	103° 26' 0.7
17,000.0	90.00	179.60	10,520.0	-6,383.6	731.7	487,512.46	819,242.66	32° 20' 13.324 N	103° 26' 0.7
17,100.0	90.00	179.60	10,520.0	-6,483.6	732.4	487,412.47	819,243.36	32° 20' 12.335 N	103° 26' 0.7
17,200.0	90.00	179.60	10,520.0	-6,583.6	733.1	487,312.47	819,244.06	32° 20' 11.345 N	103° 26' 0.74
17,300.0	90.00	179.60	10,520.0	-6,683.5	733.8	487,212.47	819,244.76	32° 20' 10.356 N	103° 26' 0.74
17,400.0	90.00	179.60	10,520.0	-6,783.5	734.5	487,112.48	819,245.46	32° 20' 9.366 N	103° 26' 0.7
17,500.0	90.00	179.60	10,520.0	-6,883.5	735.2	487,012.48	819,246.16	32° 20' 8.377 N	103° 26' 0.7
17,600.0	90.00	179.60	10,520.0	-6,983.5	735.9	486,912.48	819,246.86	32° 20' 7.387 N	103° 26' 0.7
17,700.0	90.00	179.60	10,520.0	-7,083.5	736.6	486,812.48	819,247.56	32° 20' 6.398 N	103° 26' 0.7
17,800.0	90.00	179.60	10,520.0	-7,183.5	737.3	486,712.49	819,248.26	32° 20' 5.408 N	103° 26' 0.7
17,900.0	90.00	179.60	10,520.0	-7,283.5	738.0	486,612.49	819,248.96	32° 20' 4.419 N	103° 26' 0.7
18,000.0	90.00	179.60	10,520.0	-7,383.5	738.7	486,512.49	819,249.66	32° 20' 3.429 N	103° 26' 0.7
18,100.0	90.00	179.60	10,520.0	-7,483.5	739.4	486,412.49	819,250.36	32° 20' 2.440 N	103° 26' 0.7
18,190.5	90.00	179.60	10,520.0	-7,574.0	740.0	486,322.00	819,251.00	32° 20' 1.544 N	103° 26' 0.70
sign Targets get Name									
hit/miss tan Shape		-	Dir. TVD °) (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
th Ridge #04 - plan hits ta - Point		0.00	0.00 10,520.0	-7,574.0	740.0	486,322.00	819,251.00	32° 20' 1.544 N	103° 26' 0.76



**Uncontrolled Copy** 



# WFT Casing Head (Slip on Weld with O-Ring) Running Procedure

Publication RP-001 October 21, 2010

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₩	WFT Casing Head (Slip on Weld with O-Ring)	Approved By:	Reviewed By:	RP-001
Weatherford	Running Procedure	Q	Burch T. Ross	Rev 0
5-2-GL-GL-WES-00052		Date: Oct 21, 2010	Date: Oct 21, 2010	

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



**Operator Name: BTA OIL PRODUCERS LLC** 

Well Name: NORTH RIDGE 8040 FEDERAL COM

Well Type: OIL WELL

Submission Date: 06/11/2019

03/05/2020

Well Number: 4H

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? NO **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):** 

Operator Manie. DIA OIL FRODUCERS LLC

### Well Name: NORTH RIDGE 8040 FEDERAL COM

Well Number: 4H

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? NO

**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 Name: NORTH RIDGE 8040 FEDERAL COM	Well Number: 4H
s the reclamation bond a rider under the BLM bond	?
Inlined pit bond number:	
Inlined pit bond amount:	
Additional bond information attachment:	
<b>Section 4 - Injection</b> Vould you like to utilize Injection PWD options? NO	
Produced Water Disposal (PWD) Location:	
WD surface owner:	PWD disturbance (acres):
njection PWD discharge volume (bbl/day):	
njection well mineral owner:	
njection well type:	
njection well number:	Injection well name:
ssigned injection well API number?	Injection well API number:
njection well new surface disturbance (acres):	
linerals protection information:	
lineral protection attachment:	
Inderground Injection Control (UIC) Permit?	
JIC Permit attachment:	

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? NO

**Produced Water Disposal (PWD) Location:** 

**PWD surface owner:** 

**PWD disturbance (acres):** 

Other PWD discharge volume (bbl/day):

Uperatur Manie. DIA UL FRUDUCERO LLU

Well Name: NORTH RIDGE 8040 FEDERAL COM

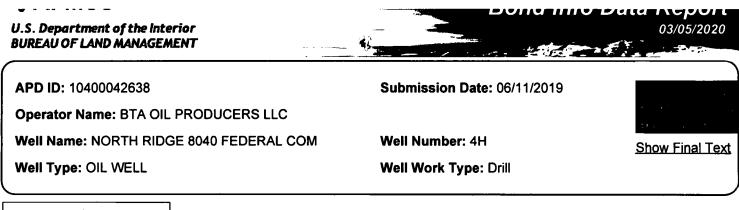
Well Number: 4H

Other PWD type description:

Other PWD type attachment:

Have other regulatory requirements been met?

Other regulatory requirements attachment:



### **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: