Form 3160-3 (June 2015)

UNITED STATES DEPARTMENT OF THE INTERIOR BURGALLOG LAND MANAGEMENT

OCD – HOBBS 05/06/2020 RECEIVED FORM APPROVED OMB No. 1004-0137 Expires: January 31, 2018

5. Lease Serial No.

APPLICATION FOR PERMIT				6. If Indian, Allotee	or Tribe	Name		
1a. Type of work: DRILL 1b. Type of Well: Oil Well Gas Well 1c. Type of Completion: Hydraulic Fracturing	Type of Well: Oil Well Gas Well Other Type of Completion: Hydraulic Fracturing Single Zone Multiple Zone Name of Operator							
2. Name of Operator [260297]				9. API Well No. 3	0-025-	47154		
3a. Address	3b. Phone	No. (include area c	rode)	10. Field and Pool,	or Exploi	ratory [97838]		
Location of Well (Report location clearly and in account At surface At proposed prod. zone	ordance with any Sta	te requirements.*)		11. Sec., T. R. M. o	r Blk. and	l Survey or Area		
14. Distance in miles and direction from nearest town or	post office*			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) 18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	16. No of a	acres in lease		ng Unit dedicated to t				
21. Elevations (Show whether DF, KDB, RT, GL, etc.)		ximate date work w	rill start*	23. Estimated durat	ion			
The following, completed in accordance with the require (as applicable)	ements of Onshore O	il and Gas Order No	o. 1, and the I	Hydraulic Fracturing i	rule per 4.	3 CFR 3162.3-3		
Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Fore SUPO must be filed with the appropriate Forest Service).		Item 20 above 5. Operator cert	e). ification.	ns unless covered by a rmation and/or plans as				
25. Signature	Nam	ne (Printed/Typed)			Date			
Title								
Approved by (Signature)	Nam	ne (Printed/Typed)			Date			
Title	Offic	ce						
Application approval does not warrant or certify that the applicant to conduct operations thereon. Conditions of approval, if any, are attached.	applicant holds lega	l or equitable title to	o those rights	in the subject lease w	hich wou	ıld entitle the		
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section of the United States any false, fictitious or fraudulent sta					any depai	rtment or agency		
GCP Rec 05/06/2020	1			Va	L			

SL

APPROVED WITH CONDITIONS
Approval Date: 04/30/2020

05/06/2020

*(Instructions on page 2)

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: BTA OIL PRODUCTION COMPANY LEASE NO.: NMNM014492
WELL NAME & NO.: MESA 8105 1-12 FED 44H
SURFACE HOLE FOOTAGE: 330'/N & 2398'/E

SURFACE HOLE FOOTAGE: | 330'/N & 2398'/E **BOTTOM HOLE FOOTAGE** | 50'/S & 1650'/E

LOCATION: Section 11, T.26 S., R.32 E., NMP

COUNTY: Lea County, New Mexico

COA

• Yes	O No	
None	Secretary	© R-111-P
O Low	• Medium	O High
Critical		
O None	Flex Hose	Other
Conventional	• Multibowl	O Both
☐4 String Area	☐ Capitan Reef	□WIPP
☐ Fluid Filled	☐ Cement Squeeze	☐ Pilot Hole
☐ Water Disposal	□ СОМ	☐ Unit
Yes	O No	
	 None Low Critical None Conventional 4 String Area □ Fluid Filled □ Water Disposal 	 None Low Medium Critical None Flex Hose Conventional Multibowl 4 String Area □ Capitan Reef □ Fluid Filled □ Cement Squeeze □ Water Disposal □ COM

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated 500 feet prior to drilling into the Red Hills formation. As a result, the Hydrogen Sulfide area must meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

B. CASING

Casing Design:

- 1. The 13-3/8 inch surface casing shall be set at approximately 1100 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 **8** hours 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 4643 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 Medium Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
- 3. The minimum required fill of cement behind the 5-1/2 inch production casing is:
 - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

C. PRESSURE CONTROL

- 1. Variance approved to use flex line from BOP to choke manifold.

 Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'
- 2. 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)

BOP Break Testing Variance (Note: For 5M BOP or less)

- BOPE Break Testing is ONLY permitted for 5M BOPE or less.
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer prior to the commencement of any BOPE Break Testing operations.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required.
- The BLM is to be contacted (575-361-2822 Eddy County) (575-393-3612 Lea County) 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at 21-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per Onshore Oil and Gas Order No. 2.

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 CountyCall 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 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.
- 2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 hours. 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 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing 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.
 - 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.

OTA04272020



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

Operator Certification Data Report

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: 10/28/2019

Title: Regulatory Analyst

Street Address: 104 S. Pecos

City: Midland State: TX Zip: 79701

Phone: (432)682-3753

Email address: shajar@btaoil.com

Field Representative

Representative Name:

Street Address: 104 S. Pecos

City: Midland State: TX Zip: 79701

Phone: (432)682-3753

Email address: shajar@btaoil.com



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

Well Name: MESA 8105 11 FED

Application Data Report

05/06/2020

APD ID: 10400050175

Submission Date: 10/28/2019

Highlighted data reflects the most recent changes

Operator Name: BTA OIL PRODUCERS LLC

Well Number: 44H

Show Final Text

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - General

BLM Office: CARLSBAD User: Sammy Hajar Title: Regulatory Analyst

Federal/Indian APD: FED Is the first lease penetrated for production Federal or Indian? FED

Lease number: NMNM014492 Lease Acres: 1960

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
Zip: 79701

Operator PO Box:

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: MESA 8105 11 FED Well Number: 44H Well API Number:

Field/Pool or Exploratory? Field and Pool Field Name: BOBCAT DRAW;

UPPER WOLFCAMP

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

Page 1 of 3

Well Name: MESA 8105 11 FED Well Number: 44H

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

Is the proposed well in a Helium production area? N Use Existing Well Pad? Y New surface disturbance? Y

Type of Well Pad: MULTIPLE WELL Multiple Well Pad Name: MESA Number: 6H, 44H, and 45H

30NTAI 8105

Well Class: HORIZONTAL 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: 12 Miles Distance to nearest well: 332 FT Distance to lease line: 330 FT

Reservoir well spacing assigned acres Measurement: 160 Acres

Well plat: Mesa_8105_44H_C102_20191028090137.pdf

Well work start Date: 01/14/2020 Duration: 30 DAYS

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83 Vertical Datum: NGVD29

Survey number: 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	330	FNL	239	FEL	26S	32E	11	Aliquot	32.06410	-	LEA	NEW	NEW	F	NMNM	325	0	0	N
Leg			8					NWNE	3	103.6447		MEXI	MEXI		014492	0			
#1										2		CO	CO						
KOP	100	FNL	165	FEL	26S	32E	11	Aliquot	32.06473	-	LEA	NEW	NEW	F	NMNM	-	856	851	Υ
Leg			0					NWNE	4	103.6423		MEXI			014492	526	1	1	
#1										06		CO	CO			1			
PPP	100	FNL	165	FEL	26S	32E	11	Aliquot	32.06473	-	LEA	NEW	NEW	F	NMNM	-	931	898	Υ
Leg			0					NWNE	4	103.6423		MEXI	1		014492	573	1	9	
#1-1										06		CO	CO			9			

Well Name: MESA 8105 11 FED Well Number: 44H

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?
EXIT Leg #1	100	FSL	165 0	FEL	26S	32E	11	Aliquot SWSE	32.05058	- 103.6423 23	LEA	1	NEW MEXI CO	F	NMNM 014492	- 573 9	138 29	898 9	Y
BHL Leg #1	50	FSL	165 0	FEL	26S	32E	11		32.05044 3	- 103.6423 23	LEA	1	NEW MEXI CO		NMNM 014492	- 573 9	141 09	898 9	Υ



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

Well Name: MESA 8105 11 FED

Drilling Plan Data Report

05/06/2020

Highlighted data reflects the most

recent changes

APD ID: 10400050175 **Submission Date:** 10/28/2019

Operator Name: BTA OIL PRODUCERS LLC

Well Number: 44H Show Final Text

Well Type: OIL WELL Well Work Type: Drill

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical Depth	Measured Depth	Lithologies	Mineral Resources	Producing Formation
573024	QUATERNARY	3250	Ö	0	ALLUVIUM	NONE	N
573025	RUSTLER	2587	663	663	ANHYDRITE	NONE	N
573026	TOP SALT	2276	974	974	SALT	NONE	N
573027	BASE OF SALT	-759	4009	4009	SALT	NONE	N
573028	DELAWARE	-1368	4618	4618	LIMESTONE	NATURAL GAS, OIL	N
573037	BELL CANYON	-1396	4646	4646	SANDSTONE	NONE	N
573030	CHERRY CANYON	-2630	5880	5880	SANDSTONE	NATURAL GAS, OIL	N
573031	BRUSHY CANYON	-3997	7247	7247	SANDSTONE	NATURAL GAS, OIL	N
573035	BONE SPRING	-5611	8861	8861	LIMESTONE, SANDSTONE	CO2, NATURAL GAS, OIL	N
573038	UPPER AVALON SHALE	-5739	8989	8989	SHALE	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 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.

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.

Well Name: MESA 8105 11 FED Well Number: 44H

Choke Diagram Attachment:

5M_choke_mannifold_20190723082749.pdf

Choke_Hose___Test_Chart_and_Specs_20190723082742.pdf

BOP Diagram Attachment:

5M_BOP_diagram_20190723082754.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	1100	0	1100	3250	2150	1100	J-55	54.5	ST&C	2.4	5.8	DRY	8.6	DRY	14.2
2		12.2 5	9.625	NEW	API	N	0	4643	0	4618	3018	-1368	4643	J-55	40	LT&C	2.1	1.7	DRY	2.8	DRY	3.4
3	PRODUCTI ON	8.75	5.5	NEW	API	N	0	14109	0	8989	3018	-5739	14109	P- 110	17	BUTT	1.7	2.4	DRY	2.4	DRY	2.3

Casing Attachments

Casing ID: 1 String Type: SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

 $Mesa_44H_casing_assumption_20191028120147.JPG$

Well Name: MESA 8105 11 FED Well Number: 44H

Casing Attachments

Casing ID: 2 String Type: INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

vaca_draw_5.5_tapered_string_spec_20190723093759.JPG

Casing Design Assumptions and Worksheet(s):

Mesa_44H_casing_assumption_20191028120155.JPG

Casing ID: 3 String Type: PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Mesa_44H_casing_assumption_20191028120206.JPG

Section 4 - Cement

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	905	730	1.73	13.5	1262. 9	100	Class C	2% CaCl2
SURFACE	Tail		905	1100	200	1.35	14.8	270	100	Class C	2% CaCl2
INTERMEDIATE	Lead		0	4085	1205	2.46	12.8	2964. 3	100	Class C	0.5% CaCl2
INTERMEDIATE	Tail		4085	4643	200	1.34	14.8	268	25	Class C	1% CaCl2
PRODUCTION	Lead		3643	9910	615	3.9	10.5	2398. 5	60	25% Poz 75% Class C	0.4% Fluid Loss

Well Name: MESA 8105 11 FED Well Number: 44H

String Type	Lead/Tail	Stage Tool Depth	Тор МБ	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
PRODUCTION	Tail		9910	1410 9	1065	1.25	14.4	1331. 25	25	Class H	0.2% LT Retarder

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

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

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

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

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

Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	ЬН	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	1100	OTHER : FW SPUD	8.3	8.4							
1100	4618	OTHER : FW GEL	9	9.4							
4618	8989	OTHER : CUT BRINE	8.7	9.3							

Well Name: MESA 8105 11 FED Well Number: 44H

Section 6 - Test, Logging, Coring

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

Drill Stem Tests will be based on geological sample shows.

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

MUD LOG/GEOLOGICAL LITHOLOGY LOG, GAMMA RAY LOG, CEMENT BOND LOG,

Coring operation description for the well:

None planned

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 4394 Anticipated Surface Pressure: 2416

Anticipated Bottom Hole Temperature(F): 151

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

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

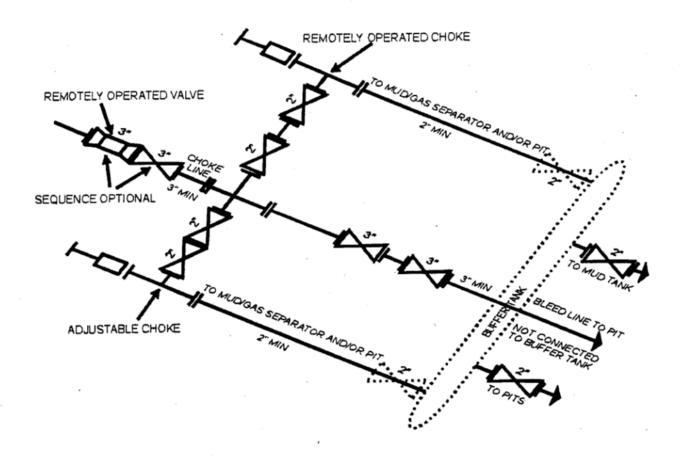
Mesa_44H_Wall_plot_20191028120901.pdf
Mesa_44H_directional_plan_20191028120901.pdf
Mesa_8105_44H_Gas_Capture_Plan_20191028120918.pdf

Other proposed operations facets description:

Other proposed operations facets attachment:

Other Variance attachment:

Casing_Head_Running_Procedure_20190723163249.pdf BOP_Break_Testing_Variance_20200424120104.pdf Multi_Bowl_Diagram_13_38_x_9_58_x_5_12_20200424120116.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]



Contifech

CONTITECH RUBBER Industrial Kft.

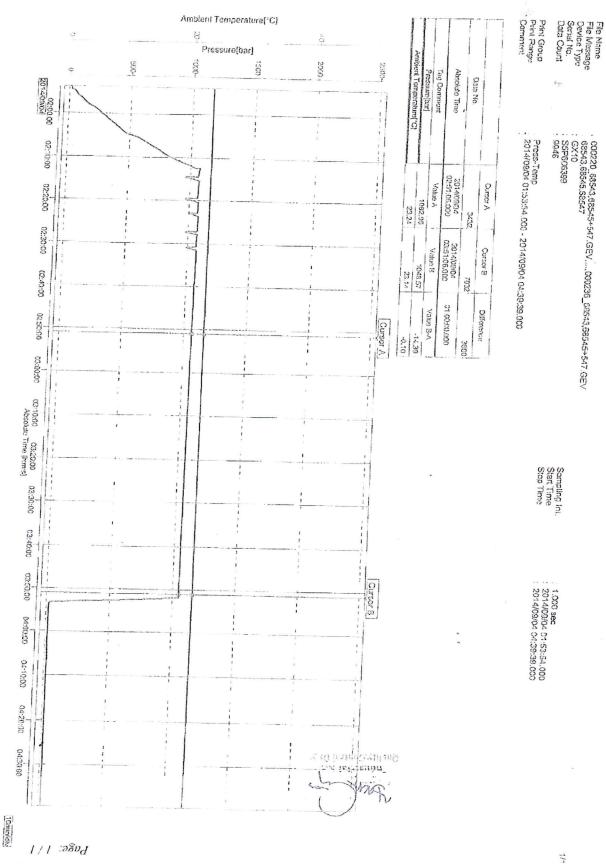
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Page:

16 / 176

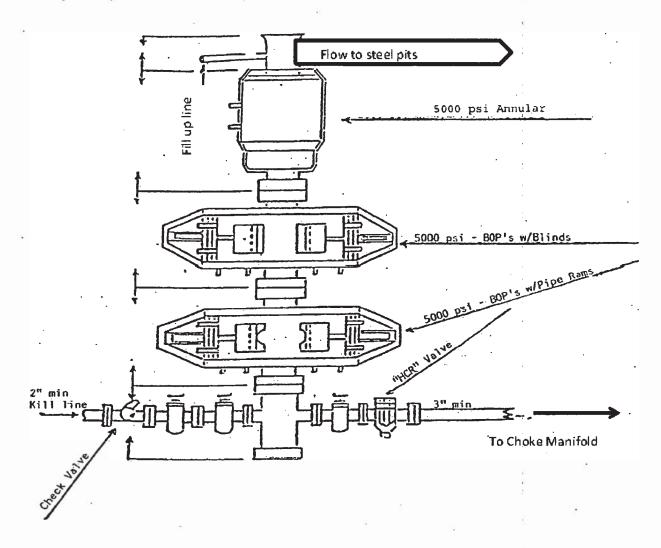
Ria 94			P	1226	$\mathcal{T}_{\mathcal{E}}$	244	55
1	CONTRO		A COMMENT OF THE COME	CERT.	Vo:	1592	
INSPECTION AND	-	eratezkoa errekantziak	-Contratory experience	d district and sind on	E 000 00 00 00 00 00 00 00 00 00 00 00 0		
PURCHASER: Cor	ntiTech Oil &	Marine Co	rp.	P.O. N°:		4500461	753
CONTITECH ORDER N°: 539.	225 но:	SE TYPE:	3" ID		Choke	& Kill Hose	
HOSE SERIAL N°: 68	547 NOI	MINAL / ACTU	JAL LENGTH:		7,62 m	/7,66 m	
W.P. 68,9 MPa 1000	00 psi T.P.	103,4	MPa 1500	00 psi	Duration:	60	min.
→ 10 Min.	'Se	e attachm	nent. (1 pa	ge)			
1 50 MPa COUPLINGS Type	round to the standard sold to be de-	Serial N	10	Qua	ality	Heat	NIO

3" coupling with 4 1/16" 10K API Swivel Flang		2574	5533	AISI A		A1582N 5889	H8672
Hub	le end			AISI		A1199N	¥
Not Designed For Well	Testina	***	***************************************		NAME OF TAXABLE PARTY.	API Spec 1	-
Fire Rated						perature i	1
All metal parts are flawless					~		9.7 h.;
WE CERTIFY THAT THE ABOVE HOS INSPECTED AND PRESSURE TESTE					THE TERM	S OF THE ORD	DER
STATEMENT OF CONFORMITY: V conditions and specifications of the accordance with the referenced stands	We hereby certify above Purchaser	hat the above i	items/equipment these items/equ	supplied I	re fabricated	inspected and	tested in
Date: Insp	pector		Quality Control		***************************************		(
04. September 2014.		d	BESTERN.	, Inni	ack Kubba strial Kit. Control De;	. (A



VILINCHWENL OF QUALITY CONTROL INSPECTION AND TEST CERTIFICATE — Vo.: 1588, 1590, 1592

13-5/8" 5,000 PSI BOP

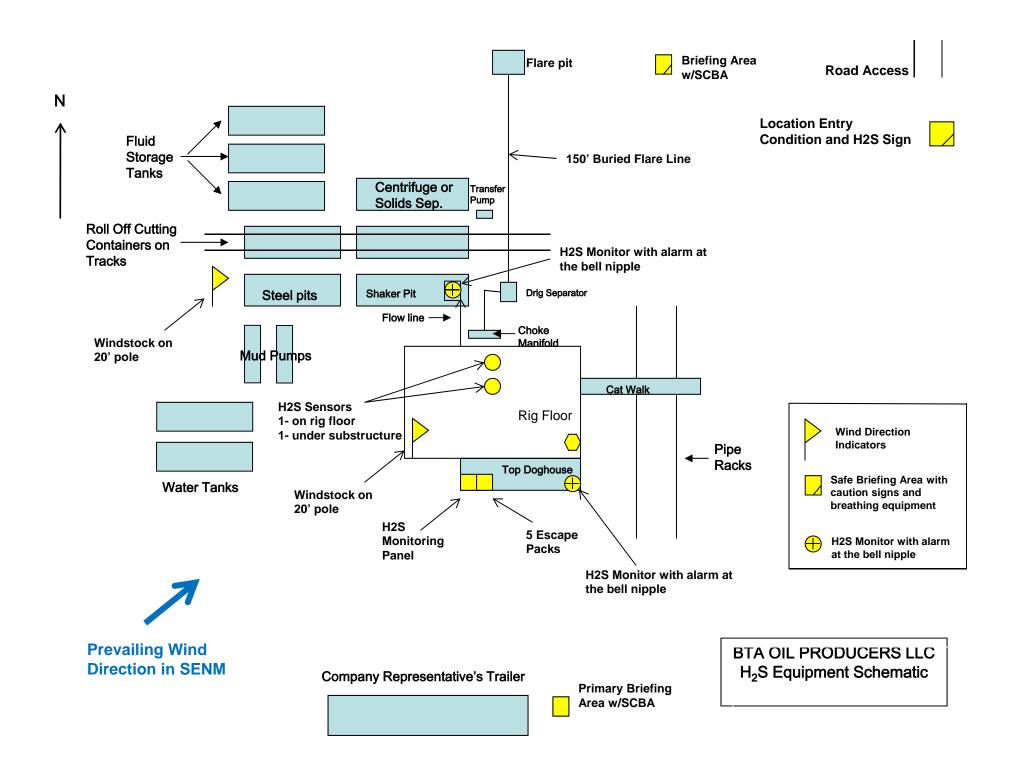


EMERGENCY CALL LIST

	<u>OFFICE</u>	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

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

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

- a. The hazards and characteristics of hydrogen sulfide (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. H₂S SAFETY EQUIPMENT AND SYSTEMS

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.

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

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

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

e. Mud Program:

The mud program has been designed to minimize the volume of H2S circulated to the surface.

f. Metallurgy:

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

g. Communication:

Company vehicles equipped with cellular telephone.

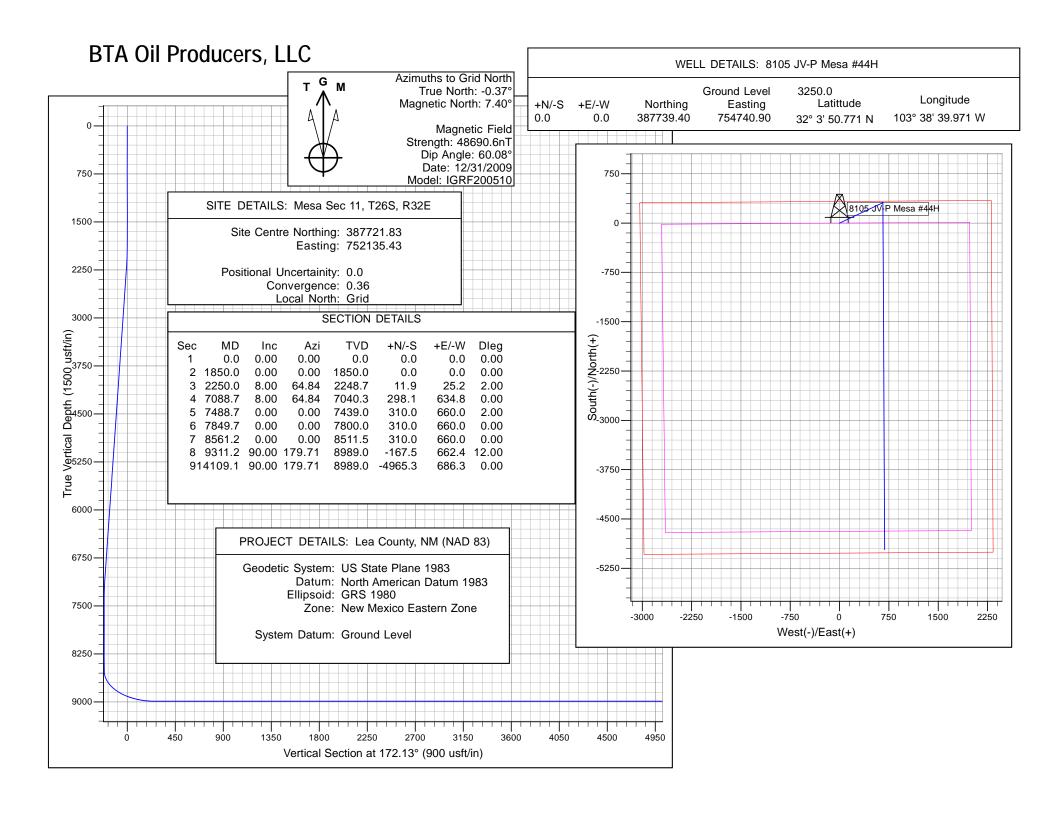
WARNING

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) Mesa Sec 11, T26S, R32E 8105 JV-P Mesa #44H

Wellbore #1

Plan: Design #1

Standard Planning Report - Geographic

10 October, 2019

Planning Report - Geographic

Database: Old

Company: BTA Oil Producers, LLC
Project: Lea County, NM (NAD 83)

 Site:
 Mesa Sec 11, T26S, R32E

 Well:
 8105 JV-P Mesa #44H

Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well 8105 JV-P Mesa #44H

GL @ 3250.0usft GL @ 3250.0usft

Grid

Minimum Curvature

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

Map System: US State Plane 1983 System

Geo Datum: North American Datum 1983

Map Zone: New Mexico Eastern Zone

System Datum: Ground Level

Using geodetic scale factor

Site Mesa Sec 11, T26S, R32E

Northing: 387,721.83 usft Site Position: Latitude: 32° 3' 50.761 N 103° 39' 10.249 W Мар Easting: 752,135.43 usft Longitude: From: Position Uncertainty: 0.0 usft Slot Radius: 13-3/16 " Grid Convergence: 0.36

Well 8105 JV-P Mesa #44H

 Well Position
 +N/-S
 0.0 usft
 Northing:
 387,739.40 usft
 Latitude:
 32° 3′ 50.771 N

 +E/-W
 0.0 usft
 Easting:
 754,740.90 usft
 Longitude:
 103° 38' 39.971 W

 Position Uncertainty
 0.0 usft
 Wellhead Elevation:
 Ground Level:
 3,250.0 usft

Wellbore Wellbore #1 Magnetics **Model Name** Sample Date Declination Dip Angle Field Strength (°) (°) (nT) IGRF200510 12/31/2009 7.77 60.08 48,690.61296177

Design #1 Design Audit Notes: PROTOTYPE Version: Phase: Tie On Depth: 0.0 **Vertical Section:** Depth From (TVD) +N/-S +E/-W Direction (usft) (usft) (usft) (°) 0.0 0.0 0.0 172.13

Plan Survey Tool Program Date 10/10/2019

Depth From Depth To

(usft) (usft) Survey (Wellbore) Tool Name Remarks

1 0.0 14,109.1 Design #1 (Wellbore #1)

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,850.0	0.00	0.00	1,850.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,250.0	8.00	64.84	2,248.7	11.9	25.2	2.00	2.00	0.00	64.84	
7,088.7	8.00	64.84	7,040.3	298.1	634.8	0.00	0.00	0.00	0.00	
7,488.7	0.00	0.00	7,439.0	310.0	660.0	2.00	-2.00	0.00	180.00	
7,849.7	0.00	0.00	7,800.0	310.0	660.0	0.00	0.00	0.00	0.00	
8,561.2	0.00	0.00	8,511.5	310.0	660.0	0.00	0.00	0.00	0.00	
9,311.2	90.00	179.71	8,989.0	-167.5	662.4	12.00	12.00	0.00	179.71	
14,109.1	90.00	179.71	8,989.0	-4,965.3	686.3	0.00	0.00	0.00	0.00	Mesa #44H BHL (USI

Planning Report - Geographic

Database: Old

Company: BTA Oil Producers, LLC
Project: Lea County, NM (NAD 83)
Site: Mesa Sec 11, T26S, R32E
Well: 8105 JV-P Mesa #44H

Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well 8105 JV-P Mesa #44H

GL @ 3250.0usft GL @ 3250.0usft

Grid

Planned Survey	,								
Flaillieu Survey									
Measured Depth (usft)	Inclination	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
` ′			, ,	, ,	` '	` '	, ,		-
0.0	0.00	0.00	0.0	0.0	0.0	387,739.40	754,740.90	32° 3′ 50.771 N	103° 38' 39.971 W
100.0 200.0	0.00	0.00	100.0 200.0	0.0 0.0	0.0 0.0	387,739.40	754,740.90	32° 3' 50.771 N 32° 3' 50.771 N	103° 38' 39.971 W 103° 38' 39.971 W
300.0	0.00	0.00	300.0	0.0	0.0	387,739.40 387,739.40	754,740.90 754,740.90	32° 3′ 50.771 N	103° 38' 39.971 W
400.0	0.00	0.00	400.0	0.0	0.0	387,739.40	754,740.90	32° 3' 50.771 N	103° 38' 39.971 W
500.0	0.00	0.00	500.0	0.0	0.0	387,739.40	754.740.90	32° 3′ 50.771 N	103° 38' 39.971 W
600.0	0.00	0.00	600.0	0.0	0.0	387,739.40	754,740.90	32° 3' 50.771 N	103° 38' 39.971 W
700.0	0.00	0.00	700.0	0.0	0.0	387,739.40	754,740.90	32° 3' 50.771 N	103° 38' 39.971 W
800.0	0.00	0.00	800.0	0.0	0.0	387,739.40	754,740.90	32° 3' 50.771 N	103° 38' 39.971 W
900.0	0.00	0.00	900.0	0.0	0.0	387,739.40	754,740.90	32° 3' 50.771 N	103° 38' 39.971 W
1,000.0	0.00	0.00	1,000.0	0.0	0.0	387,739.40	754,740.90	32° 3′ 50.771 N	103° 38' 39.971 W
1,100.0	0.00	0.00	1,100.0	0.0	0.0	387,739.40	754,740.90	32° 3′ 50.771 N	103° 38' 39.971 W
1,200.0	0.00	0.00	1,200.0	0.0	0.0	387,739.40	754,740.90	32° 3′ 50.771 N	103° 38' 39.971 W
1,300.0	0.00	0.00	1,300.0	0.0	0.0	387,739.40	754,740.90	32° 3′ 50.771 N	103° 38' 39.971 W
1,400.0	0.00	0.00	1,400.0	0.0	0.0	387,739.40	754,740.90	32° 3′ 50.771 N	103° 38' 39.971 W
1,500.0	0.00	0.00	1,500.0	0.0	0.0	387,739.40	754,740.90	32° 3′ 50.771 N	103° 38' 39.971 W
1,600.0	0.00	0.00	1,600.0	0.0	0.0	387,739.40	754,740.90	32° 3′ 50.771 N	103° 38' 39.971 W
1,700.0	0.00	0.00	1,700.0	0.0	0.0	387,739.40	754,740.90	32° 3′ 50.771 N	103° 38' 39.971 W
1,800.0	0.00	0.00	1,800.0	0.0	0.0	387,739.40	754,740.90	32° 3′ 50.771 N	103° 38' 39.971 W
1,850.0	0.00	0.00	1,850.0	0.0	0.0	387,739.40	754,740.90	32° 3′ 50.771 N	103° 38' 39.971 W
1,900.0	1.00	64.84	1,900.0	0.2	0.4	387,739.58	754,741.29	32° 3′ 50.773 N	103° 38' 39.966 W
2,000.0	3.00	64.84	1,999.9	1.7	3.6	387,741.07	754,744.45	32° 3′ 50.787 N	103° 38' 39.929 W
2,100.0	5.00	64.84	2,099.7	4.6	9.9	387,744.03	754,750.76	32° 3′ 50.816 N	103° 38' 39.856 W
2,200.0	7.00	64.84	2,199.1	9.1	19.3	387,748.48	754,760.22	32° 3′ 50.860 N	103° 38' 39.746 W
2,250.0	8.00	64.84	2,248.7	11.9	25.2	387,751.25	754,766.13	32° 3′ 50.887 N	103° 38' 39.677 W
2,300.0	8.00	64.84	2,298.2	14.8	31.5	387,754.21	754,772.43	32° 3′ 50.916 N	103° 38' 39.603 W
2,400.0	8.00	64.84	2,397.2	20.7	44.1	387,760.13	754,785.03	32° 3′ 50.974 N	103° 38' 39.456 W
2,500.0	8.00	64.84	2,496.3	26.6	56.7	387,766.04	754,797.62	32° 3′ 51.031 N	103° 38' 39.310 W
2,600.0	8.00	64.84	2,595.3	32.6	69.3	387,771.96	754,810.22	32° 3′ 51.089 N	103° 38' 39.163 W
2,700.0	8.00	64.84	2,694.3	38.5	81.9	387,777.88	754,822.81	32° 3′ 51.147 N	103° 38' 39.016 W 103° 38' 38.869 W
2,800.0 2,900.0	8.00 8.00	64.84 64.84	2,793.3 2,892.4	44.4 50.3	94.5 107.1	387,783.79 387,789.71	754,835.41 754,848.01	32° 3' 51.205 N 32° 3' 51.262 N	103° 38' 38.722 W
3,000.0	8.00	64.84	2,092.4	56.2	119.7	387,795.62	754,860.60	32° 3′ 51.320 N	103° 38' 38.576 W
3,100.0	8.00	64.84	3,090.4	62.1	132.3	387,801.54	754,873.20	32° 3′ 51.378 N	103° 38' 38.429 W
3,200.0	8.00	64.84	3,189.5	68.1	144.9	387,807.46	754,885.80	32° 3′ 51.436 N	103° 38' 38.282 W
3,300.0	8.00	64.84	3,288.5	74.0	157.5	387,813.37	754,898.39	32° 3' 51.493 N	103° 38' 38.135 W
3,400.0	8.00	64.84	3,387.5	79.9	170.1	387,819.29	754,910.99	32° 3' 51.551 N	103° 38' 37.988 W
3,500.0	8.00	64.84	3,486.5	85.8	182.7	387,825.21	754,923.59	32° 3' 51.609 N	103° 38' 37.841 W
3,600.0	8.00	64.84	3,585.6	91.7	195.3	387,831.12	754,936.18	32° 3' 51.667 N	103° 38' 37.695 W
3,700.0	8.00	64.84	3,684.6	97.6	207.9	387,837.04	754,948.78	32° 3' 51.724 N	103° 38' 37.548 W
3,800.0	8.00	64.84	3,783.6	103.6	220.5	387,842.96	754,961.38	32° 3′ 51.782 N	103° 38' 37.401 W
3,900.0	8.00	64.84	3,882.6	109.5	233.1	387,848.87	754,973.97	32° 3′ 51.840 N	103° 38' 37.254 W
4,000.0	8.00	64.84	3,981.7	115.4	245.7	387,854.79	754,986.57	32° 3′ 51.898 N	103° 38' 37.107 W
4,100.0	8.00	64.84	4,080.7	121.3	258.3	387,860.71	754,999.17	32° 3' 51.955 N	103° 38' 36.961 W
4,200.0	8.00	64.84	4,179.7	127.2	270.9	387,866.62	755,011.76	32° 3′ 52.013 N	103° 38' 36.814 W
4,300.0	8.00	64.84	4,278.8	133.1	283.5	387,872.54	755,024.36	32° 3′ 52.071 N	103° 38' 36.667 W
4,400.0	8.00	64.84	4,377.8	139.1	296.1	387,878.46	755,036.96	32° 3′ 52.129 N	103° 38' 36.520 W
4,500.0	8.00	64.84	4,476.8	145.0	308.7	387,884.37	755,049.55	32° 3′ 52.186 N	103° 38' 36.373 W
4,600.0	8.00	64.84	4,575.8	150.9	321.3	387,890.29	755,062.15	32° 3′ 52.244 N	103° 38' 36.226 W
4,700.0	8.00	64.84	4,674.9	156.8	333.9	387,896.21	755,074.74	32° 3′ 52.302 N	103° 38' 36.080 W
4,800.0	8.00	64.84	4,773.9	162.7	346.5	387,902.12	755,087.34	32° 3′ 52.360 N	103° 38' 35.933 W
4,900.0	8.00	64.84	4,872.9	168.6	359.1	387,908.04	755,099.94	32° 3′ 52.417 N	103° 38' 35.786 W
5,000.0	8.00	64.84	4,971.9	174.6	371.7	387,913.96	755,112.53	32° 3′ 52.475 N	103° 38' 35.639 W
5,100.0	8.00	64.84	5,071.0	180.5	384.2	387,919.87	755,125.13	32° 3′ 52.533 N	103° 38' 35.492 W
5,200.0	8.00	64.84	5,170.0	186.4	396.8	387,925.79	755,137.73	32° 3' 52.591 N	103° 38' 35.346 W

Planning Report - Geographic

Database: Old

Company: BTA Oil Producers, LLC
Project: Lea County, NM (NAD 83)
Site: Mesa Sec 11, T26S, R32E
Well: 8105 JV-P Mesa #44H

Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well 8105 JV-P Mesa #44H

GL @ 3250.0usft GL @ 3250.0usft

Grid

Doorgin.		,							
Planned Survey	1								
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Lameitenda
` ′						` '	, ,		Longitude
5,300.0	8.00	64.84	5,269.0	192.3	409.4	387,931.71	755,150.32	32° 3′ 52.648 N	103° 38' 35.199 W
5,400.0	8.00	64.84	5,368.0	198.2	422.0	387,937.62	755,162.92	32° 3′ 52.706 N	103° 38' 35.052 W
5,500.0	8.00	64.84	5,467.1	204.1	434.6	387,943.54	755,175.52	32° 3′ 52.764 N	103° 38' 34.905 W
5,600.0	8.00	64.84	5,566.1	210.1	447.2	387,949.45	755,188.11	32° 3′ 52.822 N	103° 38' 34.758 W
5,700.0	8.00	64.84	5,665.1	216.0	459.8	387,955.37	755,200.71	32° 3′ 52.879 N	103° 38' 34.611 W
5,800.0	8.00	64.84	5,764.2	221.9	472.4	387,961.29	755,213.31	32° 3′ 52.937 N	103° 38' 34.465 W
5,900.0	8.00	64.84	5,863.2	227.8	485.0	387,967.20	755,225.90	32° 3′ 52.995 N	103° 38' 34.318 W
6,000.0	8.00	64.84	5,962.2	233.7	497.6	387,973.12	755,238.50	32° 3′ 53.053 N	103° 38' 34.171 W
6,100.0	8.00	64.84	6,061.2	239.6	510.2	387,979.04	755,251.10	32° 3′ 53.110 N	103° 38' 34.024 W
6,200.0	8.00	64.84	6,160.3	245.6	522.8	387,984.95	755,263.69	32° 3′ 53.168 N	103° 38' 33.877 W
6,300.0	8.00	64.84	6,259.3	251.5	535.4	387,990.87	755,276.29	32° 3′ 53.226 N	103° 38' 33.731 W
6,400.0	8.00	64.84	6,358.3	257.4	548.0	387,996.79	755,288.88	32° 3′ 53.284 N	103° 38' 33.584 W
6,500.0	8.00	64.84	6,457.3	263.3	560.6	388,002.70	755,301.48	32° 3′ 53.341 N	103° 38' 33.437 W
6,600.0	8.00	64.84	6,556.4	269.2	573.2	388,008.62	755,314.08	32° 3′ 53.399 N	103° 38' 33.290 W
6,700.0	8.00	64.84	6,655.4	275.1	585.8	388,014.54	755,326.67	32° 3′ 53.457 N	103° 38' 33.143 W
6,800.0	8.00	64.84	6,754.4	281.1	598.4	388,020.45	755,339.27	32° 3′ 53.515 N	103° 38' 32.996 W
6,900.0	8.00	64.84	6,853.4	287.0	611.0	388,026.37	755,351.87	32° 3′ 53.572 N	103° 38' 32.850 W
7,000.0	8.00	64.84	6,952.5	292.9	623.6	388,032.29	755,364.46	32° 3′ 53.630 N	103° 38' 32.703 W 103° 38' 32.573 W
7,088.7	8.00	64.84	7,040.3	298.1	634.8	388,037.53	755,375.64	32° 3′ 53.681 N	
7,100.0	7.77 5.77	64.84	7,051.5	298.8	636.2	388,038.19	755,377.04	32° 3' 53.688 N 32° 3' 53.737 N	103° 38' 32.556 W 103° 38' 32.432 W
7,200.0	3.77	64.84	7,150.8	303.8	646.8	388,043.21	755,387.72	32° 3' 53.771 N	
7,300.0 7,400.0	1.77	64.84 64.84	7,250.4 7,350.3	307.4 309.4	654.4 658.8	388,046.75 388,048.80	755,395.25 755,399.63	32° 3' 53.771 N	103° 38' 32.344 W 103° 38' 32.293 W
7,400.0	0.00	0.00	7,350.3 7,439.0	310.0	660.0	388,049.39	755,399.63 755,400.87	32° 3' 53.797 N	103° 38' 32.278 W
7,500.0	0.00	0.00	7,459.0	310.0	660.0	388,049.39	755,400.87	32° 3' 53.797 N	103° 38′ 32.278 W
7,600.0	0.00	0.00	7,450.3	310.0	660.0	388,049.39	755,400.87	32° 3' 53.797 N	103° 38′ 32.278 W
7,700.0	0.00	0.00	7,650.3	310.0	660.0	388,049.39	755,400.87	32° 3' 53.797 N	103° 38' 32.278 W
7,800.0	0.00	0.00	7,750.3	310.0	660.0	388,049.39	755,400.87	32° 3' 53.797 N	103° 38' 32.278 W
7,849.7	0.00	0.00	7,800.0	310.0	660.0	388,049.39	755,400.87	32° 3' 53.797 N	103° 38' 32.278 W
7,900.0	0.00	0.00	7,850.3	310.0	660.0	388,049.39	755,400.87	32° 3' 53.797 N	103° 38' 32.278 W
8,000.0	0.00	0.00	7,950.3	310.0	660.0	388,049.39	755,400.87	32° 3' 53.797 N	103° 38' 32.278 W
8,100.0	0.00	0.00	8,050.3	310.0	660.0	388,049.39	755,400.87	32° 3' 53.797 N	103° 38' 32.278 W
8,200.0	0.00	0.00	8,150.3	310.0	660.0	388,049.39	755,400.87	32° 3' 53.797 N	103° 38' 32.278 W
8,300.0	0.00	0.00	8,250.3	310.0	660.0	388,049.39	755,400.87	32° 3′ 53.797 N	103° 38' 32.278 W
8,400.0	0.00	0.00	8,350.3	310.0	660.0	388,049.39	755,400.87	32° 3′ 53.797 N	103° 38' 32.278 W
8,500.0	0.00	0.00	8,450.3	310.0	660.0	388,049.39	755,400.87	32° 3′ 53.797 N	103° 38' 32.278 W
8,561.2	0.00	0.00	8,511.5	310.0	660.0	388,049.39	755,400.87	32° 3' 53.797 N	103° 38' 32.278 W
8,600.0	4.65	179.71	8,550.3	308.4	660.0	388,047.81	755,400.88	32° 3′ 53.781 N	103° 38' 32.278 W
8,700.0	16.65	179.71	8,648.4	290.0	660.1	388,029.36	755,400.97	32° 3′ 53.599 N	103° 38' 32.279 W
8,800.0	28.65	179.71	8,740.5	251.5	660.3	387,990.92	755,401.16	32° 3′ 53.218 N	103° 38' 32.279 W
8,900.0	40.65	179.71	8,822.6	194.8	660.6	387,934.16	755,401.45	32° 3′ 52.657 N	103° 38' 32.280 W
9,000.0	52.65	179.71	8,891.1	122.2	660.9	387,861.58	755,401.81	32° 3′ 51.938 N	103° 38' 32.282 W
9,100.0	64.65	179.71	8,943.0	36.9	661.4	387,776.34	755,402.23	32° 3′ 51.095 N	103° 38' 32.283 W
9,200.0	76.65	179.71	8,976.1	-57.2	661.8	387,682.16	755,402.70	32° 3′ 50.163 N	103° 38' 32.284 W
9,300.0	88.65	179.71	8,988.9	-156.2	662.3	387,583.17	755,403.20	32° 3′ 49.183 N	103° 38' 32.286 W
9,311.2	90.00	179.71	8,989.0	-167.5	662.4	387,571.95	755,403.25	32° 3′ 49.072 N	103° 38' 32.286 W
9,400.0	90.00	179.71	8,989.0	-256.2	662.8	387,483.17	755,403.70	32° 3′ 48.194 N	103° 38' 32.288 W
9,500.0	90.00	179.71	8,989.0	-356.2	663.3	387,383.18	755,404.20	32° 3′ 47.204 N	103° 38' 32.289 W
9,600.0	90.00	179.71	8,989.0	-456.2	663.8	387,283.18	755,404.70	32° 3′ 46.215 N	103° 38' 32.291 W
9,700.0	90.00	179.71	8,989.0	-556.2	664.3	387,183.19	755,405.19	32° 3′ 45.225 N	103° 38' 32.293 W
9,800.0	90.00	179.71	8,989.0	-656.2	664.8	387,083.19	755,405.69	32° 3′ 44.236 N	103° 38' 32.294 W
9,900.0	90.00	179.71	8,989.0	-756.2	665.3	386,983.20	755,406.19	32° 3′ 43.246 N	103° 38' 32.296 W
10,000.0		179.71	8,989.0	-856.2	665.8	386,883.20	755,406.69	32° 3' 42.257 N	103° 38' 32.298 W
10,100.0	90.00	179.71	8,989.0	-956.2	666.3	386,783.21	755,407.19	32° 3' 41.267 N	103° 38' 32.299 W
10,200.0	90.00	179.71	8,989.0	-1,056.2	666.8	386,683.21	755,407.69	32° 3′ 40.277 N	103° 38' 32.301 W

Planning Report - Geographic

Database: Old

Company: BTA Oil Producers, LLC
Project: Lea County, NM (NAD 83)
Site: Mesa Sec 11, T26S, R32E

Well: 8105 JV-P Mesa #44H
Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well 8105 JV-P Mesa #44H

GL @ 3250.0usft GL @ 3250.0usft

Grid

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
10,300.0	90.00	179.71	8,989.0	-1,156.2	667.3	386,583.22	755,408.19	32° 3′ 39.288 N	103° 38' 32.303 W
10,400.0	90.00	179.71	8,989.0	-1,256.2	667.8	386,483.22	755,408.69	32° 3′ 38.298 N	103° 38' 32.304 W
10,500.0	90.00	179.71	8,989.0	-1,356.2	668.3	386,383.23	755,409.19	32° 3′ 37.309 N	103° 38' 32.306 W
10,600.0	90.00	179.71	8,989.0	-1,456.2	668.8	386,283.23	755,409.69	32° 3′ 36.319 N	103° 38' 32.307 W
10,700.0	90.00	179.71	8,989.0	-1,556.2	669.3	386,183.24	755,410.18	32° 3′ 35.330 N	103° 38' 32.309 W
10,800.0	90.00	179.71	8,989.0	-1,656.2	669.8	386,083.24	755,410.68	32° 3′ 34.340 N	103° 38' 32.311 W
10,900.0	90.00	179.71	8,989.0	-1,756.2	670.3	385,983.25	755,411.18	32° 3′ 33.351 N	103° 38' 32.312 W
11,000.0	90.00	179.71	8,989.0	-1,856.2	670.8	385,883.25	755,411.68	32° 3′ 32.361 N	103° 38' 32.314 W
11,100.0	90.00	179.71	8,989.0	-1,956.2	671.3	385,783.26	755,412.18	32° 3′ 31.372 N	103° 38' 32.316 W
11,200.0	90.00	179.71	8,989.0	-2,056.2	671.8	385,683.26	755,412.68	32° 3′ 30.382 N	103° 38' 32.317 W
11,300.0	90.00	179.71	8,989.0	-2,156.2	672.3	385,583.27	755,413.18	32° 3′ 29.392 N	103° 38' 32.319 W
11,400.0	90.00	179.71	8,989.0	-2,256.2	672.8	385,483.28	755,413.68	32° 3′ 28.403 N	103° 38' 32.321 W
11,500.0	90.00	179.71	8,989.0	-2,356.2	673.3	385,383.28	755,414.18	32° 3′ 27.413 N	103° 38' 32.322 W
11,600.0	90.00	179.71	8,989.0	-2,456.2	673.8	385,283.29	755,414.68	32° 3′ 26.424 N	103° 38' 32.324 W
11,700.0	90.00	179.71	8,989.0	-2,556.2	674.3	385,183.29	755,415.17	32° 3′ 25.434 N	103° 38' 32.325 W
11,800.0	90.00	179.71	8,989.0	-2,656.2	674.8	385,083.30	755,415.67	32° 3′ 24.445 N	103° 38' 32.327 W
11,900.0	90.00	179.71	8,989.0	-2,756.2	675.3	384,983.30	755,416.17	32° 3′ 23.455 N	103° 38' 32.329 W
12,000.0	90.00	179.71	8,989.0	-2,856.2	675.8	384,883.31	755,416.67	32° 3′ 22.466 N	103° 38' 32.330 W
12,100.0	90.00	179.71	8,989.0	-2,956.2	676.3	384,783.31	755,417.17	32° 3′ 21.476 N	103° 38' 32.332 W
12,200.0	90.00	179.71	8,989.0	-3,056.2	676.8	384,683.32	755,417.67	32° 3′ 20.487 N	103° 38' 32.334 W
12,300.0	90.00	179.71	8,989.0	-3,156.2	677.3	384,583.32	755,418.17	32° 3′ 19.497 N	103° 38' 32.335 W
12,400.0	90.00	179.71	8,989.0	-3,256.2	677.8	384,483.33	755,418.67	32° 3′ 18.508 N	103° 38' 32.337 W
12,500.0	90.00	179.71	8,989.0	-3,356.2	678.3	384,383.33	755,419.17	32° 3′ 17.518 N	103° 38' 32.339 W
12,600.0	90.00	179.71	8,989.0	-3,456.2	678.8	384,283.34	755,419.67	32° 3′ 16.528 N	103° 38' 32.340 W
12,700.0	90.00	179.71	8,989.0	-3,556.2	679.3	384,183.34	755,420.16	32° 3′ 15.539 N	103° 38' 32.342 W
12,800.0	90.00	179.71	8,989.0	-3,656.2	679.8	384,083.35	755,420.66	32° 3′ 14.549 N	103° 38' 32.344 W
12,900.0	90.00	179.71	8,989.0	-3,756.2	680.3	383,983.35	755,421.16	32° 3′ 13.560 N	103° 38' 32.345 W
13,000.0	90.00	179.71	8,989.0	-3,856.2	680.8	383,883.36	755,421.66	32° 3′ 12.570 N	103° 38' 32.347 W
13,100.0	90.00	179.71	8,989.0	-3,956.2	681.3	383,783.36	755,422.16	32° 3' 11.581 N	103° 38' 32.348 W
13,200.0	90.00	179.71	8,989.0	-4,056.2	681.8	383,683.37	755,422.66	32° 3' 10.591 N	103° 38' 32.350 W
13,300.0	90.00	179.71	8,989.0	-4,156.2	682.3	383,583.37	755,423.16	32° 3′ 9.602 N	103° 38' 32.352 W
13,400.0	90.00	179.71	8,989.0	-4,256.2	682.8	383,483.38	755,423.66	32° 3' 8.612 N	103° 38' 32.353 W
13,500.0	90.00	179.71	8,989.0	-4,356.2	683.3	383,383.38	755,424.16	32° 3′ 7.623 N	103° 38' 32.355 W
13,600.0	90.00	179.71	8,989.0	-4,456.2	683.8	383,283.39	755,424.66	32° 3' 6.633 N	103° 38' 32.357 W
13,700.0	90.00	179.71	8,989.0	-4,556.2	684.3	383,183.39	755,425.16	32° 3′ 5.643 N	103° 38' 32.358 W
13,800.0	90.00	179.71	8,989.0	-4,656.2	684.8	383,083.40	755,425.65	32° 3' 4.654 N	103° 38' 32.360 W
13,900.0	90.00	179.71	8,989.0	-4,756.2	685.3	382,983.40	755,426.15	32° 3' 3.664 N	103° 38' 32.362 W
14,000.0	90.00	179.71	8,989.0	-4,856.2	685.8	382,883.41	755,426.65	32° 3' 2.675 N	103° 38' 32.363 W
14,100.0	90.00	179.71	8,989.0	-4,956.2	686.3	382,783.41	755,427.15	32° 3′ 1.685 N	103° 38' 32.365 W
14,109.1	90.00	179.71	8,989.0	-4,965.3	686.3	382,774.30	755,427.20	32° 3' 1.595 N	103° 38' 32.365 W

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Mesa #43H BHL - plan misses target (- Point	0.00 center by 200	0.00 0.7usft at 14	8,928.0 100.0usft ME	-4,950.7) (8989.0 TVD	2,686.0), -4956.2 N, 6	382,788.90 686.3 E)	757,426.80	32° 3′ 1.612 N	103° 38' 9.131 W
Mesa #44H BHL (USE T - plan hits target cent - Point	0.00 ter	0.00	8,989.0	-4,965.3	686.3	382,774.30	755,427.20	32° 3′ 1.595 N	103° 38' 32.365 W

Planning Report - Geographic

Database: Old
Company: BTA Oil Producers, LLC
Project: Lea County, NM (NAD 83)
Site: Mesa Sec 11, T26S, R32E
Well: 8105 JV-P Mesa #44H

Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference:
TVD Reference:

MD Reference: North Reference:

Survey Calculation Method:

Well 8105 JV-P Mesa #44H

GL @ 3250.0usft GL @ 3250.0usft

Grid



U.S. Department of the Interior BUREAU OF LAND MANAGEMENT SUPO Data Report

APD ID: 10400050175

Operator Name: BTA OIL PRODUCERS LLC

Well Name: MESA 8105 11 FED

Well Type: OIL WELL

Submission Date: 10/28/2019

Well Number: 44H

Well Work Type: Drill

Highlighted data reflects the most

recent changes

Show Final Text

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

19110919_Mesa_8105_11_Fed_44H_Topographical___Access_Rd_20191028121149.pdf

Existing Road Purpose: ACCESS,FLUID TRANSPORT Row(s) Exist? NO

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:

19110919_Mesa_8105_11_Fed_44H_1_Mile_Radius___C102_20191028121329.pdf

Well Name: MESA 8105 11 FED Well Number: 44H

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 and Types of Water Supply

Water Source Table

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: FEDERAL

Source transportation land ownership: PRIVATE

Water source volume (barrels): 100000 Source volume (acre-feet): 12.88930963

Source volume (gal): 4200000

Water source and transportation map:

Mesa_8105_44H_and_45H_Water_Transportation_Map_20191028121404.pdf

Water source comments: Water Pit is in SESE Quarter Quarter of Sec 1, T26S, R32E in Lea Co, NM

New water well? N

New Water Well Info

Well Name: MESA 8105 11 FED Well Number: 44H

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 inside diameter (in.):

New water well casing?

Used casing source:

Drilling method: Drill material:

Grout material: Grout depth:

Casing length (ft.): Casing top depth (ft.):

Well Production type: Completion Method:

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 SESE Quarter Quarter of Section 4 T26S R32E 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: MESA 8105 11 FED Well Number: 44H

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 containment 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 containment 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

Well Name: MESA 8105 11 FED Well Number: 44H

Description of cuttings location

Cuttings 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_20191009140414.pdf

19110919_Mesa_8105_11_Fed_44H_Well_Site_Plan__600s__20191028121459.pdf

Comments: This pad will be partially constructed on the same pad as the MESA 8105 JV-P MESA #6H

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance Multiple Well Pad Name: MESA 8105

Multiple Well Pad Number: 6H, 44H, and 45H

Recontouring attachment:

19110919_Mesa_8105_11_Fed_44H_Well_Site_Plan__600s__20191028121556.pdf

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 Name: MESA 8105 11 FED Well Number: 44H

Well pad proposed disturbance

(acres): 3.67

Road proposed disturbance (acres):

Powerline proposed disturbance

(acres): 0

Pipeline proposed disturbance

(acres):

Other interim reclamation (acres): 0

Other proposed disturbance (acres): 0

Well pad interim reclamation (acres): Well pad long term disturbance

(acres): 3.21

Road long term disturbance (acres): 0 Road interim reclamation (acres): 0

Powerline interim reclamation (acres): Powerline long term disturbance

(acres): 0

Pipeline interim reclamation (acres): 0 Pipeline long term disturbance

(acres): 0

Other long term disturbance (acres): 0

Total interim reclamation: 0.46 Total long term disturbance: 3.21

Total proposed disturbance:

3.679999999999997

Disturbance Comments: This pad will be on the same, previously constructed pad, as the MESA 8105 JV P #31H.

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? N

Well Name: MESA 8105 11 FED Well Number: 44H

Seed harvest description:

Seed harvest description attachment:

Seed Management

Seed Table

Seed Summary

Total pounds/Acre:

Seed Type

Pounds/Acre

Seed reclamation attachment:

Operator Contact/Responsible Official Contact Info

First Name: Last Name:

Phone: (432)682-3753 Email: csmith@btaoil.com

Seedbed prep:

Seed BMP:

Seed method:

Existing invasive species? N

Existing invasive species treatment description:

Existing invasive species treatment attachment:

Weed treatment plan description: No invasive species present. Standard regular maintenance to maintain a clear location and road.

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: MESA 8105 11 FED Well Number: 44H

Disturbance type: WELL PAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

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:

Section 12 - Other Information

Right of Way needed? N

Use APD as ROW?

ROW Type(s):

ROW Applications

SUPO Additional Information:

Use a previously conducted onsite? Y

Previous Onsite information: Onsite conducted on 10/10/19 by McKenna Ryder BLM

Other SUPO Attachment



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

PWD Data Report

PWD disturbance (acres):

APD ID: 10400050175 **Submission Date:** 10/28/2019

Operator Name: BTA OIL PRODUCERS LLC

Well Name: MESA 8105 11 FED Well Number: 44H

Well Type: OIL WELL 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:

Well Name: MESA 8105 11 FED Well Number: 44H

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 Name: MESA 8105 11 FED Well Number: 44H

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: PWD disturbance (acres):

Injection PWD discharge volume (bbl/day):

Injection well mineral owner:

Injection well type:

Injection well number: Injection well name:

Assigned injection well API number? 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: PWD disturbance (acres):

Other PWD discharge volume (bbl/day):

Well Name: MESA 8105 11 FED Well Number: 44H

Other PWD type description:

Other PWD type attachment:

Have other regulatory requirements been met?

Other regulatory requirements attachment:



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

Bond Info Data Report

05/06/2020

APD ID: 10400050175

Submission Date: 10/28/2019

Highlighted data reflects the most recent changes

Operator Name: BTA OIL PRODUCERS LLC

Well Number: 44H

Show Final Text

Well Name: MESA 8105 11 FED

Well Work Type: Drill

Bond Information

Well Type: OIL WELL

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: