

OCD - HOBBS
05/06/2020
RECEIVED

FORM APPROVED
OMB No. 1004-0137
Expires: January 31, 2018

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: <input type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No.
1b. Type of Well: <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		6. If Indian, Allottee or Tribe Name
1c. Type of Completion: <input type="checkbox"/> Hydraulic Fracturing <input type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		7. If Unit or CA Agreement, Name and No.
2. Name of Operator [260297]		8. Lease Name and Well No. [328173]
3a. Address	3b. Phone No. (include area code)	9. API Well No. 30-025-47156
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface At proposed prod. zone		10. Field and Pool, or Exploratory [97838]
14. Distance in miles and direction from nearest town or post office*		11. Sec., T. R. M. or Blk. and Survey or Area
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)		12. County or Parish
16. No of acres in lease		13. State
17. Spacing Unit dedicated to this well		
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.		
19. Proposed Depth		
20. BLM/BIA Bond No. in file		
21. Elevations (Show whether DF, KDB, RT, GL, etc.)		
22. Approximate date work will start*		
23. Estimated duration		
24. Attachments		

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable)

- | | |
|------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| 1. Well plat certified by a registered surveyor. | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan. | 5. Operator certification. |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be requested by the BLM. |

25. Signature	Name (Printed/Typed)	Date
Title		
Approved by (Signature)	Name (Printed/Typed)	Date
Title		
Office		

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

GCP Rec 05/06/2020

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(Continued on page 2)

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 46H
SURFACE HOLE FOOTAGE:	350'/N & 680'/W
BOTTOM HOLE FOOTAGE:	50'/S & 350'/W
LOCATION:	Section 11, T.26 S., R.32 E., NMP
COUNTY:	Lea County, New Mexico

COA

H2S	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Potash	<input checked="" type="radio"/> None	<input type="radio"/> Secretary	<input type="radio"/> R-111-P
Cave/Karst Potential	<input type="radio"/> Low	<input checked="" type="radio"/> Medium	<input type="radio"/> High
Cave/Karst Potential	<input type="radio"/> Critical		
Variance	<input type="radio"/> None	<input checked="" type="radio"/> Flex Hose	<input type="radio"/> Other
Wellhead	<input type="radio"/> Conventional	<input checked="" type="radio"/> Multibowl	<input type="radio"/> Both
Other	<input type="checkbox"/> 4 String Area	<input type="checkbox"/> Capitan Reef	<input type="checkbox"/> WIPP
Other	<input type="checkbox"/> Fluid Filled	<input type="checkbox"/> Cement Squeeze	<input type="checkbox"/> Pilot Hole
Special Requirements	<input type="checkbox"/> Water Disposal	<input type="checkbox"/> COM	<input type="checkbox"/> Unit

Break Testing	<input checked="" type="radio"/> Yes	<input type="radio"/> No
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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 **4570** 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 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 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 integrity 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 integrity 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.

OTA04242020



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

Operator Certification Data Report

05/06/2020

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: 10/15/2019

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



APD ID: 10400049349

Submission Date: 10/15/2019

Highlighted data
reflects the most
recent changes

Operator Name: BTA OIL PRODUCERS LLC

Well Name: MESA 8105 11 FED

Well Number: 46H

[Show Final Text](#)

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - General

APD ID: 10400049349

Tie to previous NOS?

Submission Date: 10/15/2019

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: 46H

Well API Number:

Field/Pool or Exploratory? Field and Pool

Field Name: BOBCAT DRAW

Pool Name: BOBCAT DRAW;
UPPER WOLFCAMP

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

Operator Name: BTA OIL PRODUCERS LLC

Well Name: MESA 8105 11 FED

Well Number: 46H

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:** 2H and 46H
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: 251 FT

Distance to lease line: 350 FT

Reservoir well spacing assigned acres Measurement: 160 Acres

Well plat: Mesa_8105_46H_C102_20191015080151.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 Leg #1	350	FNL	680	FW L	26S	32E	11	Aliquot NWN W	32.06404 4	- 103.6520 4	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 014492	323 8	0	0	N
KOP Leg #1	100	FNL	350	FW L	26S	32E	11	Aliquot NWN W	32.06473 2	- 103.6531 09	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 014492	- 518 1	845 0	841 9	Y
PPP Leg #1-1	100	FNL	350	FW L	26S	32E	11	Aliquot NWN W	32.06473 2	- 103.6531 09	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 014492	- 565 9	920 0	889 7	Y

Operator Name: BTA OIL PRODUCERS LLC

Well Name: MESA 8105 11 FED

Well Number: 46H

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	350	FW L	26S	32E	11	Aliquot SWS W	32.050581	- 103.653012	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 014492	- 5659	13724	8897	Y
BHL Leg #1	50	FSL	350	FW L	26S	32E	11	Aliquot SWS W	32.050443	- 103.653011	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 014492	- 5659	14004	8897	Y

APD ID: 10400049349

Submission Date: 10/15/2019

Highlighted data
reflects the most
recent changes

Operator Name: BTA OIL PRODUCERS LLC

Well Name: MESA 8105 11 FED

Well Number: 46H

[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
562314	QUATERNARY	3238	0	0	ALLUVIUM	NONE	N
562315	RUSTLER	2537	701	701	ANHYDRITE	NONE	N
562316	TOP SALT	2039	1199	1199	SALT	NONE	N
562317	BASE OF SALT	-1082	4320	4320	SALT	NONE	N
562318	DELAWARE	-1332	4570	4570	LIMESTONE	NATURAL GAS, OIL	N
562327	BELL CANYON	-1349	4587	4587	SANDSTONE	NONE	N
562320	CHERRY CANYON	-2593	5831	5831	SANDSTONE	NATURAL GAS, OIL	N
562321	BRUSHY CANYON	-3960	7198	7198	SANDSTONE	NATURAL GAS, OIL	N
562325	BONE SPRING	-5583	8821	8821	LIMESTONE, SANDSTONE	CO2, NATURAL GAS, OIL	N
562328	UPPER AVALON SHALE	-5659	8897	8897	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.

Operator Name: BTA OIL PRODUCERS LLC

Well Name: MESA 8105 11 FED

Well Number: 46H

Choke Diagram Attachment:

Choke_Hose___Test_Chart_and_Specs_20190723082742.pdf

5M_choke_mannifold_20190723082749.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	3238	2138	1100	J-55	54.5	ST&C	2.4	5.8	DRY	8.6	DRY	14.2
2	INTERMEDIATE	12.25	9.625	NEW	API	N	0	4580	0	4570	3018	-1332	4580	J-55	40	LT&C	2.1	1.8	DRY	2.8	DRY	3.4
3	PRODUCTION	8.75	5.5	NEW	API	N	0	14004	0	8897	3018	-5659	14004	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_46H_casing_assumption_20191015085423.JPG

Operator Name: BTA OIL PRODUCERS LLC

Well Name: MESA 8105 11 FED

Well Number: 46H

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_46H_casing_assumption_20191015085413.JPG

Casing ID: 3 **String Type:** PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Mesa_46H_casing_assumption_20191015085508.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	4025	1190	2.46	12.8	2927.4	100	Class C	0.5% CaCl2
INTERMEDIATE	Tail		4025	4580	200	1.34	14.8	268	25	Class C	1% CaCl2
PRODUCTION	Lead		3580	9910	620	3.9	10.5	2418	60	25% Poz 75% Class C	0.4% Fluid Loss

Operator Name: BTA OIL PRODUCERS LLC

Well Name: MESA 8105 11 FED

Well Number: 46H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
PRODUCTION	Tail		9910	1400 4	1035	1.25	14.4	1293. 75	25	Class H	0.2% LT Retarder

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

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

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

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

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

Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	1100	OTHER : FW SPUD	8.3	8.4							
1100	4570	OTHER : FW GEL	9	9.4							
4570	8897	OTHER : CUT BRINE	8.7	9.3							

Operator Name: BTA OIL PRODUCERS LLC

Well Name: MESA 8105 11 FED

Well Number: 46H

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: 4349

Anticipated Surface Pressure: 2391

Anticipated Bottom Hole Temperature(F): 151

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

Describe:

Contingency Plans geohazards 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_46H_directional_plan_20191015090022.pdf

Mesa_46H_Wall_plot_20191015090022.pdf

Mesa_8105_46H_Gas_Capture_Plan_20191015090030.pdf

Other proposed operations facets description:

Other proposed operations facets attachment:

Other Variance attachment:

Casing_Head_Running_Procedure_20190723163249.pdf

BOP_Break_Testing_Variance_20200416094428.pdf

Multi_Bowl_Diagram_13_38_x_9_58_x_5_12_20200416094428.pdf

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.

W A R N I N G

**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 #46H

Wellbore #1

Plan: Design #1

Standard Planning Report - Geographic

10 October, 2019

Microsoft
Planning Report - Geographic

Database:	Old	Local Co-ordinate Reference:	Well 8105 JV-P Mesa #46H
Company:	BTA Oil Producers, LLC	TVD Reference:	GL @ 3238.0usft
Project:	Lea County, NM (NAD 83)	MD Reference:	GL @ 3238.0usft
Site:	Mesa Sec 11, T26S, R32E	North Reference:	Grid
Well:	8105 JV-P Mesa #46H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Project	Lea County, NM (NAD 83), Lea County, NM		
Map System:	US State Plane 1983	System Datum:	Ground Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		Using geodetic scale factor

Site	Mesa Sec 11, T26S, R32E		
Site Position:		Northing:	387,721.83 usft
From:	Map	Easting:	752,135.43 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 3' 50.761 N
		Longitude:	103° 39' 10.249 W
		Grid Convergence:	0.36 °

Well	8105 JV-P Mesa #46H		
Well Position	+N/-S	0.0 usft	Northing:
	+E/-W	0.0 usft	Easting:
Position Uncertainty	0.0 usft		Wellhead Elevation:
			Latitude:
			Longitude:
			Ground Level:

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	12/31/2009	7.77	60.08	48,688.72376311

Design	Design #1			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	183.12

Plan Survey Tool Program	Date	10/10/2019		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	14,003.6 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	
3,278.7	0.00	0.00	3,278.7	0.0	0.0	0.00	0.00	0.00	0.00	
3,678.7	8.00	315.00	3,677.4	19.7	-19.7	2.00	2.00	0.00	315.00	
6,631.3	8.00	315.00	6,601.3	310.3	-310.3	0.00	0.00	0.00	0.00	
7,031.3	0.00	0.00	7,000.0	330.0	-330.0	2.00	-2.00	0.00	180.00	
8,450.9	0.00	0.00	8,419.5	330.0	-330.0	0.00	0.00	0.00	0.00	
9,200.9	90.00	179.35	8,897.0	-147.4	-324.5	12.00	12.00	0.00	179.35	
14,003.6	90.00	179.35	8,897.0	-4,949.9	-269.7	0.00	0.00	0.00	0.00	Mesa #46H BHL

Microsoft
Planning Report - Geographic

Database:	Old	Local Co-ordinate Reference:	Well 8105 JV-P Mesa #46H
Company:	BTA Oil Producers, LLC	TVD Reference:	GL @ 3238.0usft
Project:	Lea County, NM (NAD 83)	MD Reference:	GL @ 3238.0usft
Site:	Mesa Sec 11, T26S, R32E	North Reference:	Grid
Well:	8105 JV-P Mesa #46H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.0	0.00	0.00	0.0	0.0	0.0	387,703.10	752,385.60	32° 3' 50.560 N	103° 39' 7.344 W
100.0	0.00	0.00	100.0	0.0	0.0	387,703.10	752,385.60	32° 3' 50.560 N	103° 39' 7.344 W
200.0	0.00	0.00	200.0	0.0	0.0	387,703.10	752,385.60	32° 3' 50.560 N	103° 39' 7.344 W
300.0	0.00	0.00	300.0	0.0	0.0	387,703.10	752,385.60	32° 3' 50.560 N	103° 39' 7.344 W
400.0	0.00	0.00	400.0	0.0	0.0	387,703.10	752,385.60	32° 3' 50.560 N	103° 39' 7.344 W
500.0	0.00	0.00	500.0	0.0	0.0	387,703.10	752,385.60	32° 3' 50.560 N	103° 39' 7.344 W
600.0	0.00	0.00	600.0	0.0	0.0	387,703.10	752,385.60	32° 3' 50.560 N	103° 39' 7.344 W
700.0	0.00	0.00	700.0	0.0	0.0	387,703.10	752,385.60	32° 3' 50.560 N	103° 39' 7.344 W
800.0	0.00	0.00	800.0	0.0	0.0	387,703.10	752,385.60	32° 3' 50.560 N	103° 39' 7.344 W
900.0	0.00	0.00	900.0	0.0	0.0	387,703.10	752,385.60	32° 3' 50.560 N	103° 39' 7.344 W
1,000.0	0.00	0.00	1,000.0	0.0	0.0	387,703.10	752,385.60	32° 3' 50.560 N	103° 39' 7.344 W
1,100.0	0.00	0.00	1,100.0	0.0	0.0	387,703.10	752,385.60	32° 3' 50.560 N	103° 39' 7.344 W
1,200.0	0.00	0.00	1,200.0	0.0	0.0	387,703.10	752,385.60	32° 3' 50.560 N	103° 39' 7.344 W
1,300.0	0.00	0.00	1,300.0	0.0	0.0	387,703.10	752,385.60	32° 3' 50.560 N	103° 39' 7.344 W
1,400.0	0.00	0.00	1,400.0	0.0	0.0	387,703.10	752,385.60	32° 3' 50.560 N	103° 39' 7.344 W
1,500.0	0.00	0.00	1,500.0	0.0	0.0	387,703.10	752,385.60	32° 3' 50.560 N	103° 39' 7.344 W
1,600.0	0.00	0.00	1,600.0	0.0	0.0	387,703.10	752,385.60	32° 3' 50.560 N	103° 39' 7.344 W
1,700.0	0.00	0.00	1,700.0	0.0	0.0	387,703.10	752,385.60	32° 3' 50.560 N	103° 39' 7.344 W
1,800.0	0.00	0.00	1,800.0	0.0	0.0	387,703.10	752,385.60	32° 3' 50.560 N	103° 39' 7.344 W
1,900.0	0.00	0.00	1,900.0	0.0	0.0	387,703.10	752,385.60	32° 3' 50.560 N	103° 39' 7.344 W
2,000.0	0.00	0.00	2,000.0	0.0	0.0	387,703.10	752,385.60	32° 3' 50.560 N	103° 39' 7.344 W
2,100.0	0.00	0.00	2,100.0	0.0	0.0	387,703.10	752,385.60	32° 3' 50.560 N	103° 39' 7.344 W
2,200.0	0.00	0.00	2,200.0	0.0	0.0	387,703.10	752,385.60	32° 3' 50.560 N	103° 39' 7.344 W
2,300.0	0.00	0.00	2,300.0	0.0	0.0	387,703.10	752,385.60	32° 3' 50.560 N	103° 39' 7.344 W
2,400.0	0.00	0.00	2,400.0	0.0	0.0	387,703.10	752,385.60	32° 3' 50.560 N	103° 39' 7.344 W
2,500.0	0.00	0.00	2,500.0	0.0	0.0	387,703.10	752,385.60	32° 3' 50.560 N	103° 39' 7.344 W
2,600.0	0.00	0.00	2,600.0	0.0	0.0	387,703.10	752,385.60	32° 3' 50.560 N	103° 39' 7.344 W
2,700.0	0.00	0.00	2,700.0	0.0	0.0	387,703.10	752,385.60	32° 3' 50.560 N	103° 39' 7.344 W
2,800.0	0.00	0.00	2,800.0	0.0	0.0	387,703.10	752,385.60	32° 3' 50.560 N	103° 39' 7.344 W
2,900.0	0.00	0.00	2,900.0	0.0	0.0	387,703.10	752,385.60	32° 3' 50.560 N	103° 39' 7.344 W
3,000.0	0.00	0.00	3,000.0	0.0	0.0	387,703.10	752,385.60	32° 3' 50.560 N	103° 39' 7.344 W
3,100.0	0.00	0.00	3,100.0	0.0	0.0	387,703.10	752,385.60	32° 3' 50.560 N	103° 39' 7.344 W
3,200.0	0.00	0.00	3,200.0	0.0	0.0	387,703.10	752,385.60	32° 3' 50.560 N	103° 39' 7.344 W
3,278.7	0.00	0.00	3,278.7	0.0	0.0	387,703.10	752,385.60	32° 3' 50.560 N	103° 39' 7.344 W
3,300.0	0.43	315.00	3,300.0	0.1	-0.1	387,703.15	752,385.54	32° 3' 50.560 N	103° 39' 7.344 W
3,400.0	2.43	315.00	3,400.0	1.8	-1.8	387,704.91	752,383.78	32° 3' 50.578 N	103° 39' 7.364 W
3,500.0	4.43	315.00	3,499.8	6.0	-6.0	387,709.14	752,379.55	32° 3' 50.620 N	103° 39' 7.413 W
3,600.0	6.43	315.00	3,599.3	12.7	-12.7	387,715.83	752,372.87	32° 3' 50.687 N	103° 39' 7.490 W
3,678.7	8.00	315.00	3,677.4	19.7	-19.7	387,722.81	752,365.88	32° 3' 50.756 N	103° 39' 7.571 W
3,700.0	8.00	315.00	3,698.5	21.8	-21.8	387,724.91	752,363.78	32° 3' 50.777 N	103° 39' 7.595 W
3,800.0	8.00	315.00	3,797.5	31.7	-31.7	387,734.75	752,353.94	32° 3' 50.875 N	103° 39' 7.709 W
3,900.0	8.00	315.00	3,896.5	41.5	-41.5	387,744.59	752,344.10	32° 3' 50.973 N	103° 39' 7.823 W
4,000.0	8.00	315.00	3,995.6	51.3	-51.3	387,754.43	752,334.26	32° 3' 51.071 N	103° 39' 7.936 W
4,100.0	8.00	315.00	4,094.6	61.2	-61.2	387,764.27	752,324.42	32° 3' 51.169 N	103° 39' 8.050 W
4,200.0	8.00	315.00	4,193.6	71.0	-71.0	387,774.11	752,314.58	32° 3' 51.267 N	103° 39' 8.164 W
4,300.0	8.00	315.00	4,292.7	80.9	-80.9	387,783.95	752,304.74	32° 3' 51.365 N	103° 39' 8.277 W
4,400.0	8.00	315.00	4,391.7	90.7	-90.7	387,793.80	752,294.90	32° 3' 51.463 N	103° 39' 8.391 W
4,500.0	8.00	315.00	4,490.7	100.5	-100.5	387,803.64	752,285.06	32° 3' 51.561 N	103° 39' 8.504 W
4,600.0	8.00	315.00	4,589.7	110.4	-110.4	387,813.48	752,275.22	32° 3' 51.659 N	103° 39' 8.618 W
4,700.0	8.00	315.00	4,688.8	120.2	-120.2	387,823.32	752,265.38	32° 3' 51.757 N	103° 39' 8.732 W
4,800.0	8.00	315.00	4,787.8	130.1	-130.1	387,833.16	752,255.54	32° 3' 51.855 N	103° 39' 8.845 W
4,900.0	8.00	315.00	4,886.8	139.9	-139.9	387,843.00	752,245.70	32° 3' 51.953 N	103° 39' 8.959 W
5,000.0	8.00	315.00	4,985.8	149.7	-149.7	387,852.84	752,235.86	32° 3' 52.051 N	103° 39' 9.073 W
5,100.0	8.00	315.00	5,084.9	159.6	-159.6	387,862.68	752,226.02	32° 3' 52.149 N	103° 39' 9.186 W
5,200.0	8.00	315.00	5,183.9	169.4	-169.4	387,872.52	752,216.18	32° 3' 52.247 N	103° 39' 9.300 W

Microsoft
Planning Report - Geographic

Database:	Old	Local Co-ordinate Reference:	Well 8105 JV-P Mesa #46H
Company:	BTA Oil Producers, LLC	TVD Reference:	GL @ 3238.0usft
Project:	Lea County, NM (NAD 83)	MD Reference:	GL @ 3238.0usft
Site:	Mesa Sec 11, T26S, R32E	North Reference:	Grid
Well:	8105 JV-P Mesa #46H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
5,300.0	8.00	315.00	5,282.9	179.3	-179.3	387,882.36	752,206.33	32° 3' 52.345 N	103° 39' 9.414 W	
5,400.0	8.00	315.00	5,381.9	189.1	-189.1	387,892.20	752,196.49	32° 3' 52.443 N	103° 39' 9.527 W	
5,500.0	8.00	315.00	5,481.0	199.0	-199.0	387,902.04	752,186.65	32° 3' 52.541 N	103° 39' 9.641 W	
5,600.0	8.00	315.00	5,580.0	208.8	-208.8	387,911.88	752,176.81	32° 3' 52.639 N	103° 39' 9.754 W	
5,700.0	8.00	315.00	5,679.0	218.6	-218.6	387,921.72	752,166.97	32° 3' 52.737 N	103° 39' 9.868 W	
5,800.0	8.00	315.00	5,778.1	228.5	-228.5	387,931.56	752,157.13	32° 3' 52.835 N	103° 39' 9.982 W	
5,900.0	8.00	315.00	5,877.1	238.3	-238.3	387,941.40	752,147.29	32° 3' 52.933 N	103° 39' 10.095 W	
6,000.0	8.00	315.00	5,976.1	248.2	-248.2	387,951.25	752,137.45	32° 3' 53.031 N	103° 39' 10.209 W	
6,100.0	8.00	315.00	6,075.1	258.0	-258.0	387,961.09	752,127.61	32° 3' 53.129 N	103° 39' 10.323 W	
6,200.0	8.00	315.00	6,174.2	267.8	-267.8	387,970.93	752,117.77	32° 3' 53.227 N	103° 39' 10.436 W	
6,300.0	8.00	315.00	6,273.2	277.7	-277.7	387,980.77	752,107.93	32° 3' 53.325 N	103° 39' 10.550 W	
6,400.0	8.00	315.00	6,372.2	287.5	-287.5	387,990.61	752,098.09	32° 3' 53.423 N	103° 39' 10.663 W	
6,500.0	8.00	315.00	6,471.2	297.4	-297.4	388,000.45	752,088.25	32° 3' 53.521 N	103° 39' 10.777 W	
6,600.0	8.00	315.00	6,570.3	307.2	-307.2	388,010.29	752,078.41	32° 3' 53.619 N	103° 39' 10.891 W	
6,631.3	8.00	315.00	6,601.3	310.3	-310.3	388,013.37	752,075.32	32° 3' 53.650 N	103° 39' 10.926 W	
6,700.0	6.63	315.00	6,669.4	316.5	-316.5	388,019.55	752,069.14	32° 3' 53.711 N	103° 39' 10.998 W	
6,800.0	4.63	315.00	6,768.9	323.4	-323.4	388,026.48	752,062.21	32° 3' 53.780 N	103° 39' 11.078 W	
6,900.0	2.63	315.00	6,868.7	327.9	-327.9	388,030.96	752,057.74	32° 3' 53.825 N	103° 39' 11.129 W	
7,000.0	0.63	315.00	6,968.7	329.9	-329.9	388,032.96	752,055.73	32° 3' 53.845 N	103° 39' 11.153 W	
7,031.3	0.00	0.00	7,000.0	330.0	-330.0	388,033.09	752,055.61	32° 3' 53.846 N	103° 39' 11.154 W	
7,100.0	0.00	0.00	7,068.7	330.0	-330.0	388,033.09	752,055.61	32° 3' 53.846 N	103° 39' 11.154 W	
7,200.0	0.00	0.00	7,168.7	330.0	-330.0	388,033.09	752,055.61	32° 3' 53.846 N	103° 39' 11.154 W	
7,300.0	0.00	0.00	7,268.7	330.0	-330.0	388,033.09	752,055.61	32° 3' 53.846 N	103° 39' 11.154 W	
7,400.0	0.00	0.00	7,368.7	330.0	-330.0	388,033.09	752,055.61	32° 3' 53.846 N	103° 39' 11.154 W	
7,500.0	0.00	0.00	7,468.7	330.0	-330.0	388,033.09	752,055.61	32° 3' 53.846 N	103° 39' 11.154 W	
7,600.0	0.00	0.00	7,568.7	330.0	-330.0	388,033.09	752,055.61	32° 3' 53.846 N	103° 39' 11.154 W	
7,700.0	0.00	0.00	7,668.7	330.0	-330.0	388,033.09	752,055.61	32° 3' 53.846 N	103° 39' 11.154 W	
7,800.0	0.00	0.00	7,768.7	330.0	-330.0	388,033.09	752,055.61	32° 3' 53.846 N	103° 39' 11.154 W	
7,900.0	0.00	0.00	7,868.7	330.0	-330.0	388,033.09	752,055.61	32° 3' 53.846 N	103° 39' 11.154 W	
8,000.0	0.00	0.00	7,968.7	330.0	-330.0	388,033.09	752,055.61	32° 3' 53.846 N	103° 39' 11.154 W	
8,100.0	0.00	0.00	8,068.7	330.0	-330.0	388,033.09	752,055.61	32° 3' 53.846 N	103° 39' 11.154 W	
8,200.0	0.00	0.00	8,168.7	330.0	-330.0	388,033.09	752,055.61	32° 3' 53.846 N	103° 39' 11.154 W	
8,300.0	0.00	0.00	8,268.7	330.0	-330.0	388,033.09	752,055.61	32° 3' 53.846 N	103° 39' 11.154 W	
8,400.0	0.00	0.00	8,368.7	330.0	-330.0	388,033.09	752,055.61	32° 3' 53.846 N	103° 39' 11.154 W	
8,450.9	0.00	0.00	8,419.5	330.0	-330.0	388,033.09	752,055.61	32° 3' 53.846 N	103° 39' 11.154 W	
8,500.0	5.90	179.35	8,468.6	327.5	-330.0	388,030.56	752,055.64	32° 3' 53.821 N	103° 39' 11.154 W	
8,600.0	17.90	179.35	8,566.3	306.9	-329.7	388,009.99	752,055.87	32° 3' 53.617 N	103° 39' 11.153 W	
8,700.0	29.90	179.35	8,657.5	266.5	-329.3	387,969.56	752,056.34	32° 3' 53.217 N	103° 39' 11.150 W	
8,800.0	41.90	179.35	8,738.4	207.9	-328.6	387,911.04	752,057.00	32° 3' 52.638 N	103° 39' 11.147 W	
8,900.0	53.90	179.35	8,805.3	133.9	-327.8	387,836.99	752,057.85	32° 3' 51.905 N	103° 39' 11.142 W	
9,000.0	65.90	179.35	8,855.4	47.5	-326.8	387,750.64	752,058.84	32° 3' 51.051 N	103° 39' 11.137 W	
9,100.0	77.90	179.35	8,886.4	-47.3	-325.7	387,655.78	752,059.92	32° 3' 50.112 N	103° 39' 11.132 W	
9,200.0	89.90	179.35	8,897.0	-146.6	-324.6	387,556.54	752,061.05	32° 3' 49.130 N	103° 39' 11.126 W	
9,200.9	90.00	179.35	8,897.0	-147.4	-324.5	387,555.67	752,061.06	32° 3' 49.121 N	103° 39' 11.126 W	
9,300.0	90.00	179.35	8,897.0	-246.6	-323.4	387,456.55	752,062.19	32° 3' 48.140 N	103° 39' 11.120 W	
9,400.0	90.00	179.35	8,897.0	-346.6	-322.3	387,356.56	752,063.33	32° 3' 47.151 N	103° 39' 11.114 W	
9,500.0	90.00	179.35	8,897.0	-446.5	-321.1	387,256.57	752,064.48	32° 3' 46.161 N	103° 39' 11.108 W	
9,600.0	90.00	179.35	8,897.0	-546.5	-320.0	387,156.58	752,065.62	32° 3' 45.172 N	103° 39' 11.102 W	
9,700.0	90.00	179.35	8,897.0	-646.5	-318.8	387,056.59	752,066.76	32° 3' 44.182 N	103° 39' 11.096 W	
9,800.0	90.00	179.35	8,897.0	-746.5	-317.7	386,956.60	752,067.90	32° 3' 43.193 N	103° 39' 11.090 W	
9,900.0	90.00	179.35	8,897.0	-846.5	-316.6	386,856.61	752,069.04	32° 3' 42.203 N	103° 39' 11.084 W	
10,000.0	90.00	179.35	8,897.0	-946.5	-315.4	386,756.62	752,070.19	32° 3' 41.214 N	103° 39' 11.078 W	
10,100.0	90.00	179.35	8,897.0	-1,046.5	-314.3	386,656.63	752,071.33	32° 3' 40.224 N	103° 39' 11.072 W	
10,200.0	90.00	179.35	8,897.0	-1,146.5	-313.1	386,556.64	752,072.47	32° 3' 39.235 N	103° 39' 11.066 W	
10,300.0	90.00	179.35	8,897.0	-1,246.5	-312.0	386,456.65	752,073.61	32° 3' 38.245 N	103° 39' 11.060 W	

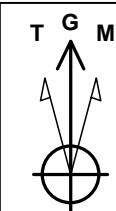
Microsoft
Planning Report - Geographic

Database:	Old	Local Co-ordinate Reference:	Well 8105 JV-P Mesa #46H
Company:	BTA Oil Producers, LLC	TVD Reference:	GL @ 3238.0usft
Project:	Lea County, NM (NAD 83)	MD Reference:	GL @ 3238.0usft
Site:	Mesa Sec 11, T26S, R32E	North Reference:	Grid
Well:	8105 JV-P Mesa #46H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
10,400.0	90.00	179.35	8,897.0	-1,346.5	-310.9	386,356.66	752,074.75	32° 3' 37.256 N	103° 39' 11.054 W	
10,500.0	90.00	179.35	8,897.0	-1,446.5	-309.7	386,256.67	752,075.89	32° 3' 36.266 N	103° 39' 11.048 W	
10,600.0	90.00	179.35	8,897.0	-1,546.5	-308.6	386,156.68	752,077.04	32° 3' 35.276 N	103° 39' 11.042 W	
10,700.0	90.00	179.35	8,897.0	-1,646.5	-307.4	386,056.70	752,078.18	32° 3' 34.287 N	103° 39' 11.036 W	
10,800.0	90.00	179.35	8,897.0	-1,746.5	-306.3	385,956.71	752,079.32	32° 3' 33.297 N	103° 39' 11.031 W	
10,900.0	90.00	179.35	8,897.0	-1,846.5	-305.1	385,856.72	752,080.46	32° 3' 32.308 N	103° 39' 11.025 W	
11,000.0	90.00	179.35	8,897.0	-1,946.4	-304.0	385,756.73	752,081.60	32° 3' 31.318 N	103° 39' 11.019 W	
11,100.0	90.00	179.35	8,897.0	-2,046.4	-302.9	385,656.74	752,082.74	32° 3' 30.329 N	103° 39' 11.013 W	
11,200.0	90.00	179.35	8,897.0	-2,146.4	-301.7	385,556.75	752,083.89	32° 3' 29.339 N	103° 39' 11.007 W	
11,300.0	90.00	179.35	8,897.0	-2,246.4	-300.6	385,456.76	752,085.03	32° 3' 28.350 N	103° 39' 11.001 W	
11,400.0	90.00	179.35	8,897.0	-2,346.4	-299.4	385,356.77	752,086.17	32° 3' 27.360 N	103° 39' 10.995 W	
11,500.0	90.00	179.35	8,897.0	-2,446.4	-298.3	385,256.78	752,087.31	32° 3' 26.371 N	103° 39' 10.989 W	
11,600.0	90.00	179.35	8,897.0	-2,546.4	-297.2	385,156.79	752,088.45	32° 3' 25.381 N	103° 39' 10.983 W	
11,700.0	90.00	179.35	8,897.0	-2,646.4	-296.0	385,056.80	752,089.60	32° 3' 24.392 N	103° 39' 10.977 W	
11,800.0	90.00	179.35	8,897.0	-2,746.4	-294.9	384,956.81	752,090.74	32° 3' 23.402 N	103° 39' 10.971 W	
11,900.0	90.00	179.35	8,897.0	-2,846.4	-293.7	384,856.82	752,091.88	32° 3' 22.413 N	103° 39' 10.965 W	
12,000.0	90.00	179.35	8,897.0	-2,946.4	-292.6	384,756.83	752,093.02	32° 3' 21.423 N	103° 39' 10.959 W	
12,100.0	90.00	179.35	8,897.0	-3,046.4	-291.4	384,656.84	752,094.16	32° 3' 20.434 N	103° 39' 10.953 W	
12,200.0	90.00	179.35	8,897.0	-3,146.4	-290.3	384,556.85	752,095.30	32° 3' 19.444 N	103° 39' 10.947 W	
12,300.0	90.00	179.35	8,897.0	-3,246.4	-289.2	384,456.86	752,096.45	32° 3' 18.454 N	103° 39' 10.941 W	
12,400.0	90.00	179.35	8,897.0	-3,346.4	-288.0	384,356.87	752,097.59	32° 3' 17.465 N	103° 39' 10.935 W	
12,500.0	90.00	179.35	8,897.0	-3,446.4	-286.9	384,256.88	752,098.73	32° 3' 16.475 N	103° 39' 10.929 W	
12,600.0	90.00	179.35	8,897.0	-3,546.3	-285.7	384,156.90	752,099.87	32° 3' 15.486 N	103° 39' 10.924 W	
12,700.0	90.00	179.35	8,897.0	-3,646.3	-284.6	384,056.91	752,101.01	32° 3' 14.496 N	103° 39' 10.918 W	
12,800.0	90.00	179.35	8,897.0	-3,746.3	-283.5	383,956.92	752,102.15	32° 3' 13.507 N	103° 39' 10.912 W	
12,900.0	90.00	179.35	8,897.0	-3,846.3	-282.3	383,856.93	752,103.30	32° 3' 12.517 N	103° 39' 10.906 W	
13,000.0	90.00	179.35	8,897.0	-3,946.3	-281.2	383,756.94	752,104.44	32° 3' 11.528 N	103° 39' 10.900 W	
13,100.0	90.00	179.35	8,897.0	-4,046.3	-280.0	383,656.95	752,105.58	32° 3' 10.538 N	103° 39' 10.894 W	
13,200.0	90.00	179.35	8,897.0	-4,146.3	-278.9	383,556.96	752,106.72	32° 3' 9.549 N	103° 39' 10.888 W	
13,300.0	90.00	179.35	8,897.0	-4,246.3	-277.7	383,456.97	752,107.86	32° 3' 8.559 N	103° 39' 10.882 W	
13,400.0	90.00	179.35	8,897.0	-4,346.3	-276.6	383,356.98	752,109.00	32° 3' 7.570 N	103° 39' 10.876 W	
13,500.0	90.00	179.35	8,897.0	-4,446.3	-275.5	383,256.99	752,110.15	32° 3' 6.580 N	103° 39' 10.870 W	
13,600.0	90.00	179.35	8,897.0	-4,546.3	-274.3	383,157.00	752,111.29	32° 3' 5.591 N	103° 39' 10.864 W	
13,700.0	90.00	179.35	8,897.0	-4,646.3	-273.2	383,057.01	752,112.43	32° 3' 4.601 N	103° 39' 10.858 W	
13,800.0	90.00	179.35	8,897.0	-4,746.3	-272.0	382,957.02	752,113.57	32° 3' 3.612 N	103° 39' 10.852 W	
13,900.0	90.00	179.35	8,897.0	-4,846.3	-270.9	382,857.03	752,114.71	32° 3' 2.622 N	103° 39' 10.846 W	
14,000.0	90.00	179.35	8,897.0	-4,946.3	-269.8	382,757.04	752,115.86	32° 3' 1.632 N	103° 39' 10.840 W	
14,003.6	90.00	179.35	8,897.0	-4,949.9	-269.7	382,753.40	752,115.90	32° 3' 1.596 N	103° 39' 10.840 W	

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
- hit/miss target										
- Shape										
Mesa #46H BHL	0.00	0.00	8,897.0	-4,949.9	-269.7	382,753.40	752,115.90	32° 3' 1.596 N	103° 39' 10.840 W	
- plan hits target center										
- Point										

BTA Oil Producers, LLC



Azimuths to Grid North
True North: -0.36°
Magnetic North: 7.41°

Magnetic Field
Strength: 48688.7nT
Dip Angle: 60.08°
Date: 12/31/2009
Model: IGRF200510

WELL DETAILS: 8105 JV-P Mesa #46H					
+N/-S	+E/-W	Northing	Ground Level Easting	3238.0 Latitude	Longitude
0.0	0.0	387703.10	752385.60	32° 3' 50.560 N	103° 39' 7.344 W

SITE DETAILS: Mesa Sec 11, T26S, R32E

Site Centre Northing: 387721.83
Easting: 752135.43

Positional Uncertainty: 0.0
Convergence: 0.36
Local North: Grid

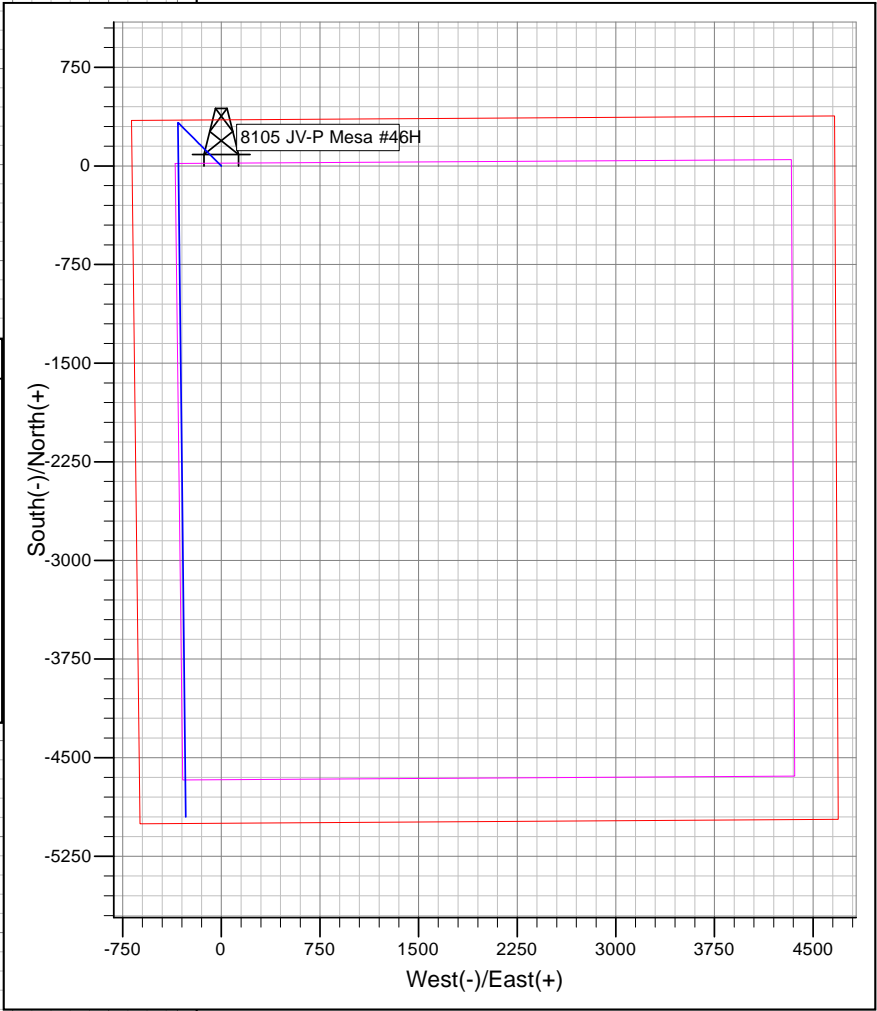
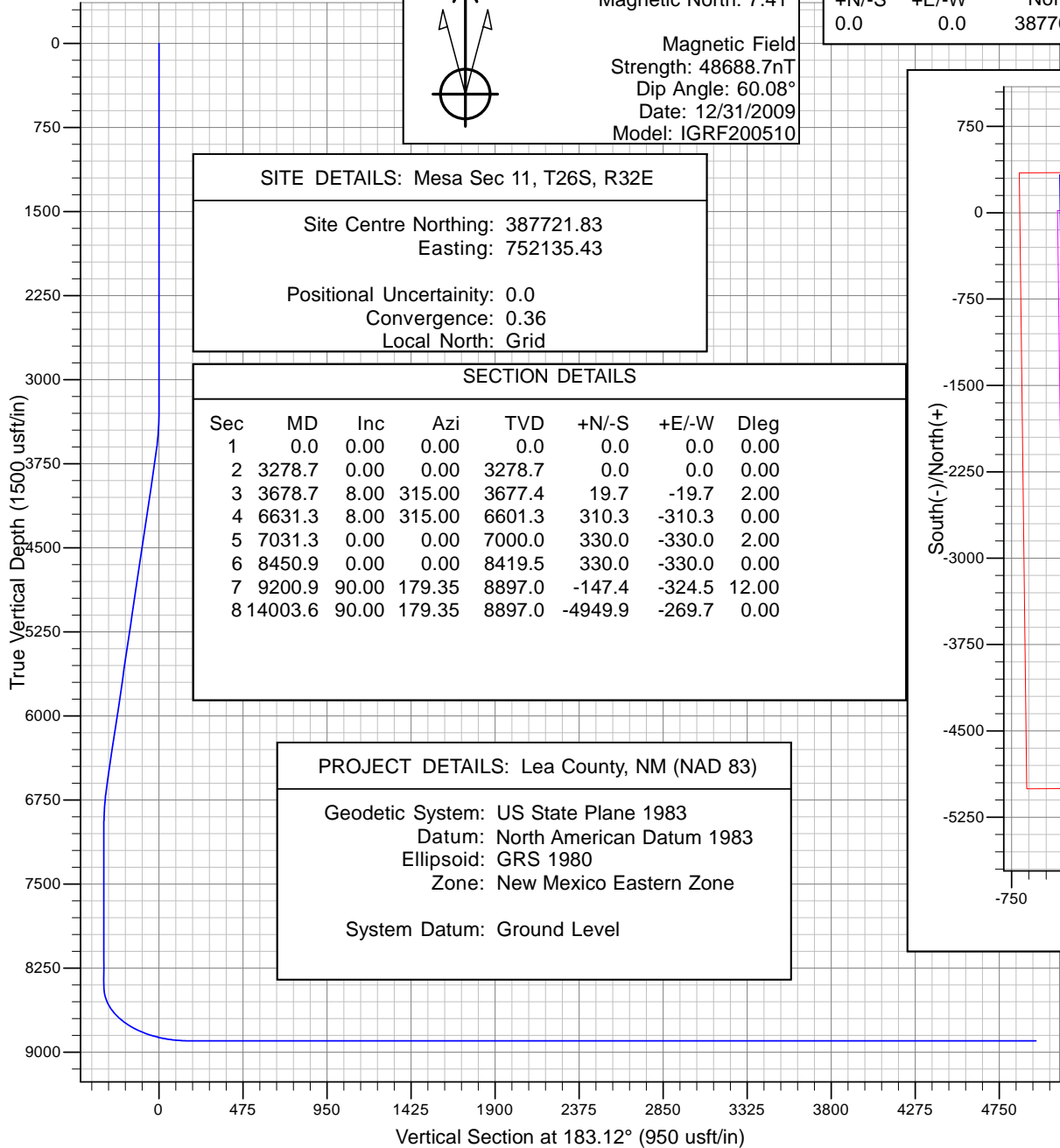
SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00
2	3278.7	0.00	0.00	3278.7	0.0	0.0	0.00
3	3678.7	8.00	315.00	3677.4	19.7	-19.7	2.00
4	6631.3	8.00	315.00	6601.3	310.3	-310.3	0.00
5	7031.3	0.00	0.00	7000.0	330.0	-330.0	2.00
6	8450.9	0.00	0.00	8419.5	330.0	-330.0	0.00
7	9200.9	90.00	179.35	8897.0	-147.4	-324.5	12.00
8	14003.6	90.00	179.35	8897.0	-4949.9	-269.7	0.00

PROJECT DETAILS: Lea County, NM (NAD 83)

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone

System Datum: Ground Level





APD ID: 10400049349

Submission Date: 10/15/2019

Highlighted data
reflects the most
recent changes

Operator Name: BTA OIL PRODUCERS LLC

Well Name: MESA 8105 11 FED

Well Number: 46H

[Show Final Text](#)

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

0921_Topographical___Access_Rd_20191015090107.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:

0921_1_Mile_Radius_20191015090207.pdf

Operator Name: BTA OIL PRODUCERS LLC

Well Name: MESA 8105 11 FED

Well Number: 46H

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_46H_Water_Transportation_Map_20191015090246.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

Operator Name: BTA OIL PRODUCERS LLC

Well Name: MESA 8105 11 FED

Well Number: 46H

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 FACILITY

Disposal location ownership: COMMERCIAL

Disposal type description:

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

Operator Name: BTA OIL PRODUCERS LLC

Well Name: MESA 8105 11 FED

Well Number: 46H

Waste type: SEWAGE

Waste content description: Human waste and grey water.

Amount of waste: 1000 gallons

Waste disposal frequency : One Time Only

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

Safe containmant attachment:

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

Disposal type description:

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

Waste type: DRILLING

Waste content description: Drilling fluids and cuttings.

Amount of waste: 4164 barrels

Waste disposal frequency : One Time Only

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

Safe containmant attachment:

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

Disposal type description:

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

Reserve Pit

Reserve Pit being used? N

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

Operator Name: BTA OIL PRODUCERS LLC

Well Name: MESA 8105 11 FED

Well Number: 46H

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

0921_Well_Site_Plan_20191015090329.pdf

Comments: This pad will be partially constructed on the same pad as the MESA 8105 JV-P MESA #2H

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance

Multiple Well Pad Name: MESA 8105

Multiple Well Pad Number: 2H and 46H

Recontouring attachment:

0921_Well_Site_Plan_20191015090503.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.

Operator Name: BTA OIL PRODUCERS LLC

Well Name: MESA 8105 11 FED

Well Number: 46H

Well pad proposed disturbance (acres): 3.67	Well pad interim reclamation (acres): 0.46	Well pad long term disturbance (acres): 3.21
Road proposed disturbance (acres): 0.01	Road interim reclamation (acres): 0	Road long term disturbance (acres): 0
Powerline proposed disturbance (acres): 0	Powerline interim reclamation (acres): 0	Powerline long term disturbance (acres): 0
Pipeline proposed disturbance (acres):	Pipeline interim reclamation (acres): 0	Pipeline long term disturbance (acres): 0
Other proposed disturbance (acres): 0	Other interim reclamation (acres): 0	Other long term disturbance (acres): 0
Total proposed disturbance: 3.6799999999999997	Total interim reclamation: 0.46	Total long term disturbance: 3.21

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

Operator Name: BTA OIL PRODUCERS LLC

Well Name: MESA 8105 11 FED

Well Number: 46H

Seed harvest description:

Seed harvest description attachment:

Seed Management

Seed Table

Seed Summary

Total pounds/Acre:

Seed Type	Pounds/Acre
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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

Operator Name: BTA OIL PRODUCERS LLC

Well Name: MESA 8105 11 FED

Well Number: 46H

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



APD ID: 10400049349

Submission Date: 10/15/2019

Operator Name: BTA OIL PRODUCERS LLC

Well Name: MESA 8105 11 FED

Well Number: 46H

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:

PWD disturbance (acres):

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:

Describe 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:

Operator Name: BTA OIL PRODUCERS LLC

Well Name: MESA 8105 11 FED

Well Number: 46H

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:

Describe 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?

Operator Name: BTA OIL PRODUCERS LLC

Well Name: MESA 8105 11 FED

Well Number: 46H

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):

Operator Name: BTA OIL PRODUCERS LLC

Well Name: MESA 8105 11 FED

Well Number: 46H

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: 10400049349

Submission Date: 10/15/2019

Highlighted data
reflects the most
recent changes

Operator Name: BTA OIL PRODUCERS LLC

Well Name: MESA 8105 11 FED

Well Number: 46H

[Show Final Text](#)

Well Type: OIL WELL

Well Work Type: Drill

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: