

Form 3160-3
(June 2015)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

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

1a. Type of work: ☒ DRILL ☐ REENTER		5. Lease Serial No. NMNM014492
1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other		6. If Indian, Allottee or Tribe Name
1c. Type of Completion: ☐ Hydraulic Fracturing ☒ Single Zone ☐ Multiple Zone		7. If Unit or CA Agreement, Name and No.
2. Name of Operator BTA OIL PRODUCERS LLC [260297]		8. Lease Name and Well No. MESA 8105 11 FEDERAL [328173] 62H
3a. Address 104 SOUTH PECOS STREET, MIDLAND, TX 79701	3b. Phone No. (include area code) (432) 682-3753	9. API Well No. 30-025-48965
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface NENW / 320 FNL / 1700 FWL / LAT 32.06413 / LONG -103.648749 At proposed prod. zone SESW / 50 FSL / 2310 FWL / LAT 32.050444 / LONG -103.646686		10. Field and Pool, or Exploratory WC-025/WOLFCAMP SAND [98158] 11. Sec., T. R. M. or Blk. and Survey or Area SEC 11/T26S/R32E/NMP
14. Distance in miles and direction from nearest town or post office*		12. County or Parish LEA
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 320 feet		13. State NM
16. No of acres in lease		17. Spacing Unit dedicated to this well 160.0
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 285 feet		20. BLM/BIA Bond No. in file FED: NMB001711
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3254 feet		22. Approximate date work will start* 12/05/2021
		23. Estimated duration 30 days
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 (Electronic Submission)	Name (Printed/Typed) SAMMY HAJAR / Ph: (432) 682-3753	Date 07/09/2020
Title Regulatory Analyst		
Approved by (Signature) (Electronic Submission)	Name (Printed/Typed) Cody Layton / Ph: (575) 234-5959	Date 04/12/2021
Title Assistant Field Manager Lands & Minerals		
Office Carlsbad Field 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 04/27/2021

SL

(Continued on page 2)

KZ
06/02/2021

*(Instructions on page 2)

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	BTA Oil Producers LLC
LEASE NO.:	NMNM014492
WELL NAME & NO.:	MESA 8105 11 Federal 62H
SURFACE HOLE FOOTAGE:	320'/N & 1700'/W
BOTTOM HOLE FOOTAGE:	50'/S & 2310'/W
LOCATION:	Section 11, T.26 S., R.32 E., NMP
COUNTY:	Lea County, New Mexico

COA

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

A. HYDROGEN SULFIDE

Hydrogen Sulfide (H2S) monitors shall be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

B. CASING

Casing Design:

1. The **10-3/4** inch surface casing shall be set at approximately **795 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 7-5/8 inch intermediate casing shall be set at approximately **11,538** feet. The minimum required fill of cement behind the 7-5/8 inch intermediate casing is:

Option 1 (Single Stage):

- Cement to surface. If cement does not circulate see B.1.a, c-d above. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.**
Excess cement calculates to -44%, additional cement might be required.

Option 2:

Operator has proposed a DV tool, the depth may be adjusted as long as the cement is changed proportionally. The DV tool may be cancelled if cement circulates to surface on the first stage.

- a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
Excess cement calculates to -7%, additional cement might be required.
 - b. Second stage above DV tool:
 - Cement to surface. If cement does not circulate, contact the appropriate BLM office.
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 X 5 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 **10,000 (10M) psi. Variance is approved to use a 5000 (5M) Annular which shall be tested to 5000 (5M) psi.**
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
 - e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

GENERAL REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)

☒ Chaves and Roosevelt Counties
Call the Roswell Field Office, 2909 West Second St., Roswell NM 88201.
During office hours call (575) 627-0272.
After office hours call (575)

☒ 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.
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.
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: 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.
 - 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.

OTA11042020



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

Application Data Report

04/16/2021

APD ID: 10400058887

Submission Date: 07/09/2020

Highlighted data
reflects the most
recent changes

Operator Name: BTA OIL PRODUCERS LLC

Well Name: MESA 8105 11 FEDERAL

Well Number: 62H

[Show Final Text](#)

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - General

APD ID: 10400058887

Tie to previous NOS?

Submission Date: 07/09/2020

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:

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 FEDERAL

Well Number: 62H

Well API Number:

Field/Pool or Exploratory? Field and Pool

Field Name: WC-025

Pool Name: WOLFCAMP
SAND

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

Operator Name: BTA OIL PRODUCERS LLC

Well Name: MESA 8105 11 FEDERAL

Well Number: 62H

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: 62H, 63H, 64H, and
8105 11 FEDERAL 65H

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:

Distance to nearest well: 285 FT

Distance to lease line: 320 FT

Reservoir well spacing assigned acres Measurement: 160 Acres

Well plat: Signed_Mesa_8105_11_Federal_62H_C102_20200709120259.pdf

Well work start Date: 12/05/2021

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	320	FNL	170 0	FW L	26S	32E	11	Aliquot NENW	32.06413	- 103.6487 49	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 014492	325 4	0	0	Y
KOP Leg #1	100	FNL	231 0	FW L	26S	32E	11	Aliquot NENW	32.06473 5	- 103.6467 84	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 014492	- 831 2	116 12	115 66	Y
PPP Leg #1-1	100	FNL	231 0	FW L	26S	32E	11	Aliquot NENW	32.06473 5	- 103.6467 84	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 014492	- 870 5	120 86	119 59	Y

Operator Name: BTA OIL PRODUCERS LLC**Well Name:** MESA 8105 11 FEDERAL**Well Number:** 62H

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	231 0	FW L	26S	32E	11	Aliquot SESW	32.05058 1	- 103.6466 87	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 014492	- 879 0	168 81	120 44	Y
BHL Leg #1	50	FSL	231 0	FW L	26S	32E	11	Aliquot SESW	32.05044 4	- 103.6466 86	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 014492	- 879 0	171 61	120 44	Y



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

Drilling Plan Data Report

04/16/2021

APD ID: 10400058887

Submission Date: 07/09/2020

Highlighted data
reflects the most
recent changes

Operator Name: BTA OIL PRODUCERS LLC

Well Name: MESA 8105 11 FEDERAL

Well Number: 62H

[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
781768	QUATERNARY	3254	0	0	ALLUVIUM	NONE	N
781769	RUSTLER	2534	720	720	ANHYDRITE	NONE	N
781770	TOP SALT	2050	1204	1204	SALT	NONE	N
781771	BASE OF SALT	-1150	4404	4404	SALT	NONE	N
781772	DELAWARE	-1360	4614	4614	LIMESTONE	NATURAL GAS, OIL	N
781781	BELL CANYON	-1385	4639	4639	SANDSTONE	NATURAL GAS, OIL	N
781774	CHERRY CANYON	-2735	5989	5989	SANDSTONE	NATURAL GAS, OIL	N
781775	BRUSHY CANYON	-4005	7259	7259	SANDSTONE	NATURAL GAS, OIL	N
781776	BONE SPRING LIME	-5600	8854	8854	LIMESTONE	NATURAL GAS, OIL	N
781777	FIRST BONE SPRING SAND	-6500	9754	9754	SANDSTONE	NATURAL GAS, OIL	N
781778	BONE SPRING 2ND	-7100	10354	10354	SANDSTONE	NATURAL GAS, OIL	N
781779	BONE SPRING 3RD	-8250	11504	11504	SANDSTONE	NATURAL GAS, OIL	N
781780	WOLFCAMP	-8705	11959	11959	SHALE	NATURAL GAS, OIL	Y

Section 2 - Blowout Prevention

Operator Name: BTA OIL PRODUCERS LLC**Well Name:** MESA 8105 11 FEDERAL**Well Number:** 62H**Pressure Rating (PSI):** 10M**Rating Depth:** 14000

Equipment: The blowout preventer equipment (BOP) shown in Exhibit A will consist of a (10M system) double ram type (10,000 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 10-3/4" 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 10M 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 10,000 psi WP rating. The 5M annular will be tested as per BLM drilling Operations Order No. 2, and will be test to 100% of working pressure.

Requesting Variance? NO**Variance request:**

Testing Procedure: Pipe rams will be operated and checked each 24-hour period and each time the drill pipe is out of the hole. These functional tests will be documented on the daily drillers log. All BOPs and associated equipment will be tested as per BLM drilling Operations Order No. 2.

Choke Diagram Attachment:

Choke_Hose___Test_Chart_and_Specs_20190723082742.pdf

10M_choke_mannifold_20200521113335.pdf

BOP Diagram Attachment:

BLM_10M_BOP_with_5M_annular_20200521113411.pptx

5M_annular_well_control_plan_for_BLM_20200521113411.docx

10M_annular_variance_20200521113430.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	14.75	10.75	NEW	API	N	0	750	0	750	3254	2504	750	J-55	40.5	ST&C	4.9	9.7	DRY	13.8	DRY	20.7
2	INTERMEDIATE	9.875	7.625	NEW	API	Y	0	8046	0	8000	3018	-4746	8046	P-110	29.7	BUTT	1.4	2.4	DRY	4	DRY	3.9
3	PRODUCTION	6.75	5.5	NEW	API	Y	0	11338	0	11292	3018	-8038	11338	P-110	20	BUTT	1.3	1.5	DRY	2.9	DRY	2.8
4	INTERMEDIATE	8.75	7.625	NEW	API	Y	8046	11538	8000	11492	-4635	-8238	3492	P-110	29.7	FJ	1.7	1.7	DRY	2.8	DRY	2.7
5	PRODUCTION	6.75	5.0	NEW	API	Y	11338	17161	11292	12044	-8038	-8790	5823	P-110	18	BUTT	1.3	1.4	DRY	1.9	DRY	1.9

Operator Name: BTA OIL PRODUCERS LLC**Well Name:** MESA 8105 11 FEDERAL**Well Number:** 62H**Casing Attachments**

Casing ID: 1 **String Type:** SURFACE**Inspection Document:****Spec Document:****Tapered String Spec:****Casing Design Assumptions and Worksheet(s):**Mesa_62H_casing_assumption_20200709124900.JPG

Casing ID: 2 **String Type:** INTERMEDIATE**Inspection Document:****Spec Document:****Tapered String Spec:**

7_5_8_tapered_string_9_7_8_hole_spec__20200521134254.jpg

Casing Design Assumptions and Worksheet(s):Mesa_62H_casing_assumption_20200709124939.JPG

Casing ID: 3 **String Type:** PRODUCTION**Inspection Document:****Spec Document:****Tapered String Spec:**

5.5_tapered_string_spec_20190930151650.jpg

Casing Design Assumptions and Worksheet(s):Mesa_62H_casing_assumption_20200709125023.JPG

Operator Name: BTA OIL PRODUCERS LLC

Well Name: MESA 8105 11 FEDERAL

Well Number: 62H

Casing Attachments

Casing ID: 4 String Type: INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

7_5_8_tapered_string_8_3_4_hole_spec_for_FJ_20200521140259.jpg

Casing Design Assumptions and Worksheet(s):

Mesa_62H_casing_assumption_20200709125118.JPG

Casing ID: 5 String Type: PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

5_tapered_string_spec_20190930151627.jpg

Casing Design Assumptions and Worksheet(s):

Mesa_62H_casing_assumption_20200709124822.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	505	315	1.8	13.5	567	100	Class C	2% CaCl2
SURFACE	Tail		505	750	200	1.34	14.8	268	100	Class C	2% CaCl2
INTERMEDIATE	Lead	4627	0	4205	675	2.19	12.7	1478.25	50	Class C	0.5% CaCl2
INTERMEDIATE	Tail		4205	4627	150	1.33	14.8	199.5	50	Class C	1% CaCl2
INTERMEDIATE	Lead		4627	8020	345	2.64	10.5	910.8	25	Class H	0.5% CaCl2

Operator Name: BTA OIL PRODUCERS LLC

Well Name: MESA 8105 11 FEDERAL

Well Number: 62H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
INTERMEDIATE	Tail		8020	11538	400	1.19	15.6	476	25	Class H	1% CaCl2
PRODUCTION	Lead		10540	11338	0	0	0	0		n/a	n/a

PRODUCTION	Lead		11338	17161	645	1.27	14.8	819.15	10	Class H	0.1% Fluid Loss
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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	750	OTHER : FW SPUD	8.3	8.4							
750	11538	OTHER : DBE	9	9.4							
11538	12044	OIL-BASED MUD	11	14							

Operator Name: BTA OIL PRODUCERS LLC**Well Name:** MESA 8105 11 FEDERAL**Well Number:** 62H

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: 8768**Anticipated Surface Pressure:** 6118**Anticipated Bottom Hole Temperature(F):** 177**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_62H_Wall_plot_20200709125554.pdf

Mesa_62H_directional_plan_20200709125554.pdf

Mesa_8105_62H_Gas_Capture_Plan_20200709125952.pdf

Other proposed operations facets description:

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

Other proposed operations facets attachment:**Other Variance attachment:**

BTA_MB_10_34___7_58___5_12_20200521143833.pdf

Well control plan for 10M BOPE with 5M annular

Drilling

1. Sound alarm (alert crew).
2. Space out drill string.
3. Shut down pumps (stop pumps and rotary).
4. Shut-in Well with annular with HCR and choke in closed position.
5. Confirm shut-in.
6. Notify tool pusher/company representative.
7. Read and record the following:
 - a. SIDPP & SICP
 - b. Time of shut in
 - c. Pit gain
8. Regroup and identify forward plan. If pressure has increased to 2500 psi, confirm spacing and close the upper variable bore rams.
9. Prepare for well kill operation.

Tripping

1. Sound alarm (alert rig crew)
2. Stab full opening safety valve and close valve
3. Space out drill string
4. Shut in the well with the annular with HCR and choke in closed position
5. Confirm shut in
6. Notify tool pusher/company representative
7. Read and record the following
 - a. Time of shut in
 - b. SIDPP and SICP
 - c. Pit gain
8. If pressure has increased to 2500 psi, confirm spacing and close the upper most variable bore ram.
9. Prepare for well kill operation.

While Running Casing

1. Sound alarm (alert rig crew)
2. Stab crossover and full opening safety valve and close valve
3. Space out casing string
4. Shut in well with annular with HCR and choke in closed position
5. Confirm shut in
6. Notify tool pusher/company representative
7. Read and record the following:
 - a. SIDPP & SICP
 - b. Pit gain
 - c. Time
8. If pressure has increased to 2500 psi, confirm spacing and close the upper most variable bore ram.
9. Prepare for well kill operation.

No Pipe In Hole (Open Hole)

1. Sound alarm (alert rig crew)

Well control plan for 10M BOPE with 5M annular

2. Shut in blind rams with HCR and choke in closed position
3. Confirm shut in
4. Notify tool pusher/company representative
5. Read and record the following:
 - a. SICP
 - b. Pit gain
 - c. Time
6. Prepare for well kill operation

Pulling BHA thru Stack

1. Prior to pulling last joint of drill pipe thru the stack
 - a. Perform flow check, if flowing:
 - a.i. Sound Alarm (alert crew)
 - a.ii. Stab full opening safety valve and close valve
 - a.iii. Space out drill string
 - a.iv. Shut in using upper most VBR, choke and HCR in closed position
 - a.v. Confirm shut in
 - a.vi. Notify tool pusher/company representative.
 - a.vii. Read and record the following:
 - a.vii.1. SIDPP and SICP
 - a.vii.2. Pit gain
 - a.vii.3. Time
 - a.viii. Prepare for well kill operation
 2. With BHA in the stack:
 - a. If possible pull BHA clear of stack
 - a.i. Follow 'open hole' procedure above
 - b. If unable to pull BHA clear of stack
 - b.i. Stab crossover with full opening safety valve, close valve.
 - b.ii. Space out
 - b.iii. Shut in using upper most VBR. HCR and choke in closed position.
 - b.iv. Confirm shut in
 - b.v. Notify tool pusher/company rep
 - b.vi. Read and record the following:
 - b.vi.1. SIDPP and SICP
 - b.vi.2. Pit gain
 - b.vi.3. Time
 - b.vii. Prepare for well kill operation

Drilling component and preventer compatibility table **for 10M approval**

The following table outlines the drilling and production liner components for Wolfcamp targets requiring 10M BOPE approval. Variance is requested to utilize a 5M annular preventer in 6-1/8" hole as all components can be covered using 10M rated VBR's (variable bore rams). 5M annular on the 10M system will be tested to 100% of rated working pressure.

6-1/8" hole section – 10M BOPE requirement (13-5/8" BOP)			
Component	OD	Preventer	RWP
Drill pipe	4"	3.5"-5.5" VBR	10M
HWDP	4"	3.5"-5.5" VBR	10M
Jars	5"	3.5"-5.5" VBR	10M
DC's and NMDC's	4-3/4"	3.5"-5.5" VBR	10M
Mud motor	5"	3.5"-5.5" VBR	10M
Casing	4-1/2"	3.5"-5.5" VBR	10M
Open hole	NA	Blind rams	10M

12-1/4" & 8-3/4" hole sections – 5M BOPE requirement (13-5/8" BOP)			
Component	OD	Preventer	RWP
Drill pipe	5"	3.5"-5.5" VBR or 5" pipe rams	10M
HWDP	5"	3.5"-5.5" VBR or 5" pipe rams	10M
Jars	6-1/4"	Annular	5M
DC's and NMDC's	7"-8"	Annular	5M
Mud motor	7"-8"	Annular	5M
Casing	9-5/8" & 7"	Annular	5M
Open hole	NA	Blind rams	10M

		BTA Oil Producers, LLC								WELL: Mesa 8105 11 Fed #62H (WSCN)					
		104 S Pecos								TVD: 12044					
		Midland, TX 79701								MD: 17161					
DRILLING PLAN															
Casing Program															
Hole Size	Csg. Size	From (MD)	To (MD)	From (TVD)	To (TVD)	Tapered String	Weight (lbs)	Grade	Conn.	Collapse	Burst	Body Tension	Joint Tension	Dry/ Buoyant	Mud Weight (ppg)
14 3/4	10 3/4	0	750	0	750	No	40.5	J-55	STC	4.9	9.7	20.7	13.8	Dry	8.3
9 7/8	7 5/8	0	8046	0	8000	yes	29.7	P110	Buttress	1.4	2.4	3.9	4.0	Dry	9.4
8 3/4	7 5/8	8046	11538	8000	11492	yes	29.7	P110	FJ	1.7	1.7	2.7	2.8	Dry	9.4
6 3/4	5 1/2	0	11338	0	11292	Yes	20	P110	Buttress	1.3	1.5	2.8	2.9	Dry	14
6 3/4	5	11338	17161	11292	12044	Yes	18	P110	Buttress	1.3	1.4	1.9	2.0	Dry	14
*7 5/8" has DV Tool @ 4627'															

EMERGENCY CALL LIST

	<u>OFFICE</u>	<u>MOBILE</u>
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.

W A R N I N G

**YOU ARE ENTERING AN H₂S AREA
AUTHORIZED PERSONNEL ONLY**

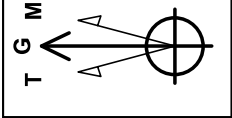
- 1. BEARDS OR CONTACT LENSES NOT ALLOWED**
- 2. HARD HATS REQUIRED**
- 3. SMOKING IN DESIGNATED AREAS ONLY**
- 4. BE WIND CONSCIOUS AT ALL TIMES**
- 5. CK WITH BTA OIL PRODUCERS LLC FOREMAN AT MAIN OFFICE**

BTA OIL PRODUCERS LLC

1-432-682-3753

BTA Oil Producers, LLC

Azimuths to Grid North
 True North: -0.36°
 Magnetic North: 7.41°
 Magnetic Field
 Strength: 48689.0nT
 Dip Angle: 60.08°
 Date: 12/31/2009
 Model: IGRF200510



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	1000.0	0.00	0.00	1000.0	0.0	0.0	0.00
3	1400.0	8.00	63.81	1398.7	12.3	25.0	2.00
4	5883.8	8.00	63.81	5838.8	287.7	585.0	0.00
5	6283.8	0.00	0.00	6237.5	300.0	610.0	2.00
6	11537.7	0.00	0.00	11491.5	300.0	610.0	0.00
7	11612.8	0.00	0.00	11566.5	300.0	610.0	0.00
8	12362.8	90.00	179.34	12044.0	-177.4	615.5	12.00
9	17160.5	90.00	179.34	12044.0	-4974.9	670.6	0.00

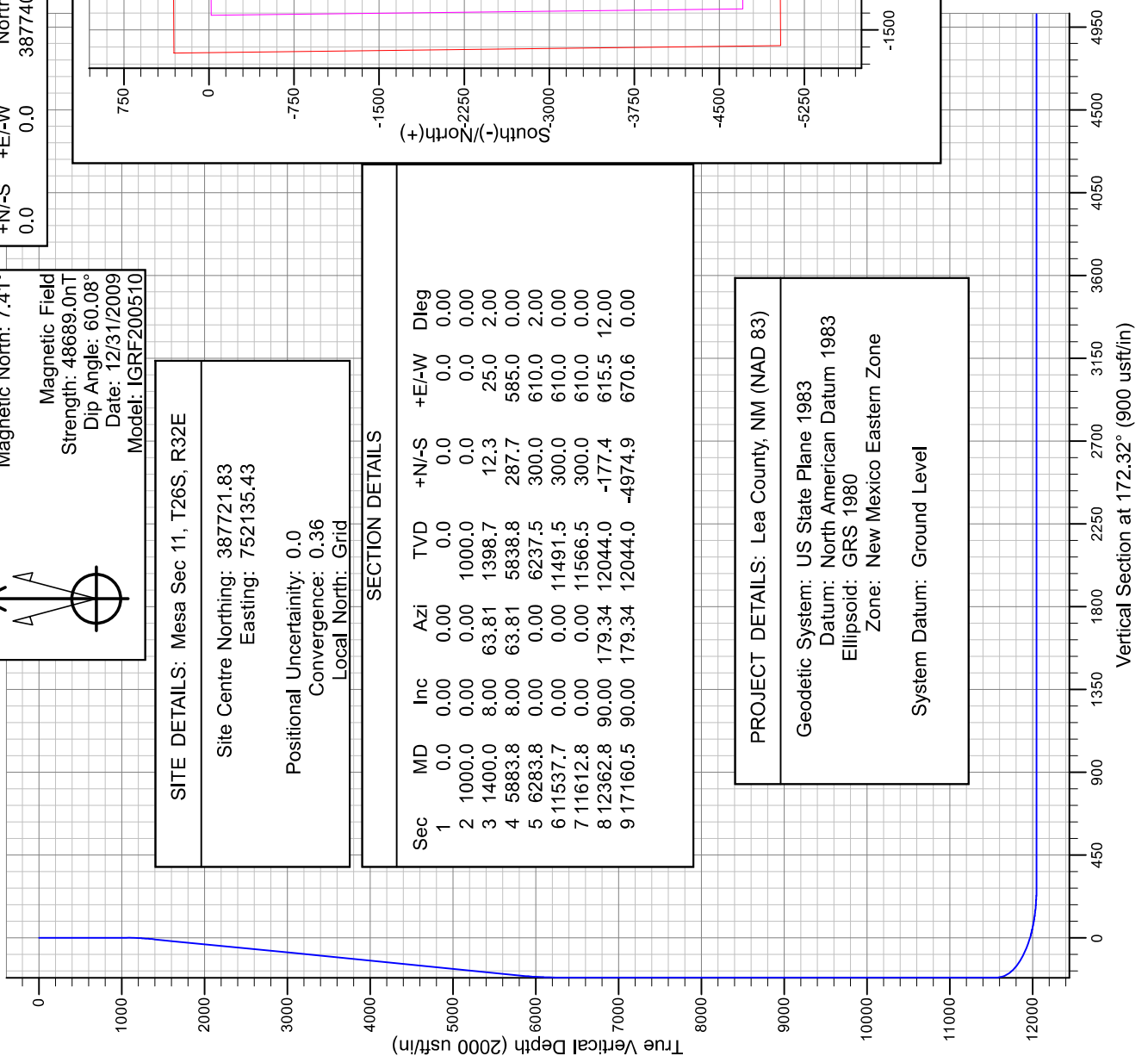
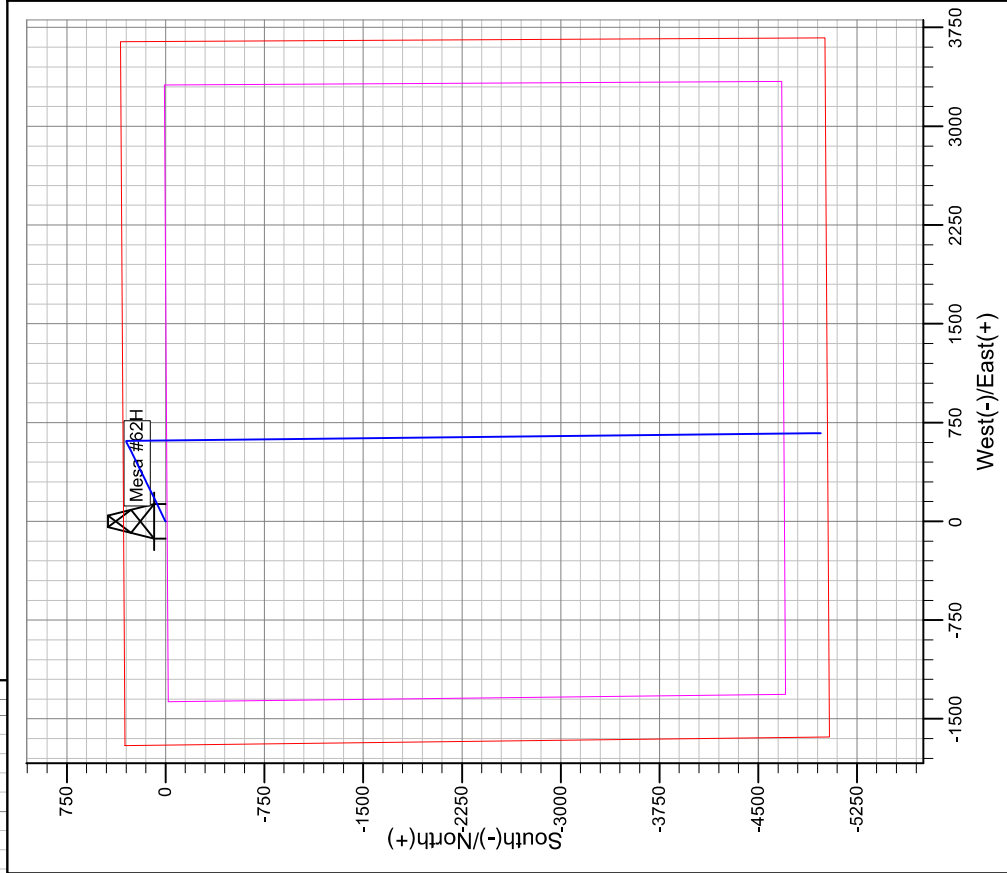
PROJECT DETAILS: Lea County, NM (NAD 83)

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

System Datum: Ground Level

WELL DETAILS: Mesa #62H

+N/-S 0.0 +E/-W 0.0 Northing 387740.60 Ground Level Easting 753404.90 Latitude 32° 3' 50.867 N Longitude 103° 38' 55.496 W



BTA Oil Producers, LLC

Lea County, NM (NAD 83)

Mesa Sec 11, T26S, R32E

Mesa #62H

Wellbore #1

Plan: Design #1

Standard Planning Report - Geographic

09 July, 2020

Microsoft
Planning Report - Geographic

Database:	Old	Local Co-ordinate Reference:	Well Mesa #62H
Company:	BTA Oil Producers, LLC	TVD Reference:	GL @ 3254.0usft
Project:	Lea County, NM (NAD 83)	MD Reference:	GL @ 3254.0usft
Site:	Mesa Sec 11, T26S, R32E	North Reference:	Grid
Well:	Mesa #62H	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	Mesa #62H		
Well Position	+N/-S	0.0 usft	Northing:
	+E/-W	0.0 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	
		Latitude:	32° 3' 50.867 N
		Longitude:	103° 38' 55.496 W
		Ground Level:	3,254.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	12/31/2009	7.77	60.08	48,689.02348892

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	172.32

Plan Survey Tool Program	Date	7/9/2020		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	17,160.5 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	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,400.0	8.00	63.81	1,398.7	12.3	25.0	2.00	2.00	0.00	63.81	
5,883.8	8.00	63.81	5,838.8	287.7	585.0	0.00	0.00	0.00	0.00	
6,283.8	0.00	0.00	6,237.5	300.0	610.0	2.00	-2.00	0.00	180.00	
11,537.7	0.00	0.00	11,491.5	300.0	610.0	0.00	0.00	0.00	0.00	
11,612.8	0.00	0.00	11,566.5	300.0	610.0	0.00	0.00	0.00	0.00	
12,362.8	90.00	179.34	12,044.0	-177.4	615.5	12.00	12.00	0.00	179.34	
17,160.5	90.00	179.34	12,044.0	-4,974.9	670.6	0.00	0.00	0.00	0.00	Mesa #62H BHL

Microsoft
Planning Report - Geographic

Database:	Old	Local Co-ordinate Reference:	Well Mesa #62H
Company:	BTA Oil Producers, LLC	TVD Reference:	GL @ 3254.0usft
Project:	Lea County, NM (NAD 83)	MD Reference:	GL @ 3254.0usft
Site:	Mesa Sec 11, T26S, R32E	North Reference:	Grid
Well:	Mesa #62H	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	387,740.60	753,404.90	32° 3' 50.867 N	103° 38' 55.496 W
100.0	0.00	0.00	100.0	0.0	0.0	387,740.60	753,404.90	32° 3' 50.867 N	103° 38' 55.496 W
200.0	0.00	0.00	200.0	0.0	0.0	387,740.60	753,404.90	32° 3' 50.867 N	103° 38' 55.496 W
300.0	0.00	0.00	300.0	0.0	0.0	387,740.60	753,404.90	32° 3' 50.867 N	103° 38' 55.496 W
400.0	0.00	0.00	400.0	0.0	0.0	387,740.60	753,404.90	32° 3' 50.867 N	103° 38' 55.496 W
500.0	0.00	0.00	500.0	0.0	0.0	387,740.60	753,404.90	32° 3' 50.867 N	103° 38' 55.496 W
600.0	0.00	0.00	600.0	0.0	0.0	387,740.60	753,404.90	32° 3' 50.867 N	103° 38' 55.496 W
700.0	0.00	0.00	700.0	0.0	0.0	387,740.60	753,404.90	32° 3' 50.867 N	103° 38' 55.496 W
800.0	0.00	0.00	800.0	0.0	0.0	387,740.60	753,404.90	32° 3' 50.867 N	103° 38' 55.496 W
900.0	0.00	0.00	900.0	0.0	0.0	387,740.60	753,404.90	32° 3' 50.867 N	103° 38' 55.496 W
1,000.0	0.00	0.00	1,000.0	0.0	0.0	387,740.60	753,404.90	32° 3' 50.867 N	103° 38' 55.496 W
1,100.0	2.00	63.81	1,100.0	0.8	1.6	387,741.37	753,406.46	32° 3' 50.875 N	103° 38' 55.478 W
1,200.0	4.00	63.81	1,199.8	3.1	6.3	387,743.68	753,411.16	32° 3' 50.897 N	103° 38' 55.423 W
1,300.0	6.00	63.81	1,299.5	6.9	14.1	387,747.52	753,418.98	32° 3' 50.935 N	103° 38' 55.332 W
1,400.0	8.00	63.81	1,398.7	12.3	25.0	387,752.90	753,429.91	32° 3' 50.987 N	103° 38' 55.204 W
1,500.0	8.00	63.81	1,497.7	18.4	37.5	387,759.04	753,442.40	32° 3' 51.047 N	103° 38' 55.059 W
1,600.0	8.00	63.81	1,596.8	24.6	50.0	387,765.19	753,454.89	32° 3' 51.107 N	103° 38' 54.913 W
1,700.0	8.00	63.81	1,695.8	30.7	62.5	387,771.33	753,467.38	32° 3' 51.167 N	103° 38' 54.768 W
1,800.0	8.00	63.81	1,794.8	36.9	75.0	387,777.47	753,479.87	32° 3' 51.227 N	103° 38' 54.622 W
1,900.0	8.00	63.81	1,893.8	43.0	87.5	387,783.61	753,492.35	32° 3' 51.287 N	103° 38' 54.476 W
2,000.0	8.00	63.81	1,992.9	49.2	100.0	387,789.75	753,504.84	32° 3' 51.347 N	103° 38' 54.331 W
2,100.0	8.00	63.81	2,091.9	55.3	112.4	387,795.89	753,517.33	32° 3' 51.407 N	103° 38' 54.185 W
2,200.0	8.00	63.81	2,190.9	61.4	124.9	387,802.04	753,529.82	32° 3' 51.467 N	103° 38' 54.040 W
2,300.0	8.00	63.81	2,289.9	67.6	137.4	387,808.18	753,542.31	32° 3' 51.527 N	103° 38' 53.894 W
2,400.0	8.00	63.81	2,389.0	73.7	149.9	387,814.32	753,554.80	32° 3' 51.587 N	103° 38' 53.749 W
2,500.0	8.00	63.81	2,488.0	79.9	162.4	387,820.46	753,567.28	32° 3' 51.647 N	103° 38' 53.603 W
2,600.0	8.00	63.81	2,587.0	86.0	174.9	387,826.60	753,579.77	32° 3' 51.707 N	103° 38' 53.457 W
2,700.0	8.00	63.81	2,686.1	92.1	187.4	387,832.74	753,592.26	32° 3' 51.767 N	103° 38' 53.312 W
2,800.0	8.00	63.81	2,785.1	98.3	199.9	387,838.89	753,604.75	32° 3' 51.827 N	103° 38' 53.166 W
2,900.0	8.00	63.81	2,884.1	104.4	212.3	387,845.03	753,617.24	32° 3' 51.887 N	103° 38' 53.021 W
3,000.0	8.00	63.81	2,983.1	110.6	224.8	387,851.17	753,629.73	32° 3' 51.947 N	103° 38' 52.875 W
3,100.0	8.00	63.81	3,082.2	116.7	237.3	387,857.31	753,642.21	32° 3' 52.007 N	103° 38' 52.729 W
3,200.0	8.00	63.81	3,181.2	122.9	249.8	387,863.45	753,654.70	32° 3' 52.067 N	103° 38' 52.584 W
3,300.0	8.00	63.81	3,280.2	129.0	262.3	387,869.60	753,667.19	32° 3' 52.127 N	103° 38' 52.438 W
3,400.0	8.00	63.81	3,379.2	135.1	274.8	387,875.74	753,679.68	32° 3' 52.187 N	103° 38' 52.293 W
3,500.0	8.00	63.81	3,478.3	141.3	287.3	387,881.88	753,692.17	32° 3' 52.247 N	103° 38' 52.147 W
3,600.0	8.00	63.81	3,577.3	147.4	299.8	387,888.02	753,704.65	32° 3' 52.307 N	103° 38' 52.002 W
3,700.0	8.00	63.81	3,676.3	153.6	312.3	387,894.16	753,717.14	32° 3' 52.367 N	103° 38' 51.856 W
3,800.0	8.00	63.81	3,775.3	159.7	324.7	387,900.30	753,729.63	32° 3' 52.427 N	103° 38' 51.710 W
3,900.0	8.00	63.81	3,874.4	165.9	337.2	387,906.45	753,742.12	32° 3' 52.487 N	103° 38' 51.565 W
4,000.0	8.00	63.81	3,973.4	172.0	349.7	387,912.59	753,754.61	32° 3' 52.547 N	103° 38' 51.419 W
4,100.0	8.00	63.81	4,072.4	178.1	362.2	387,918.73	753,767.10	32° 3' 52.607 N	103° 38' 51.274 W
4,200.0	8.00	63.81	4,171.5	184.3	374.7	387,924.87	753,779.58	32° 3' 52.667 N	103° 38' 51.128 W
4,300.0	8.00	63.81	4,270.5	190.4	387.2	387,931.01	753,792.07	32° 3' 52.727 N	103° 38' 50.983 W
4,400.0	8.00	63.81	4,369.5	196.6	399.7	387,937.15	753,804.56	32° 3' 52.787 N	103° 38' 50.837 W
4,500.0	8.00	63.81	4,468.5	202.7	412.2	387,943.30	753,817.05	32° 3' 52.847 N	103° 38' 50.691 W
4,600.0	8.00	63.81	4,567.6	208.8	424.7	387,949.44	753,829.54	32° 3' 52.907 N	103° 38' 50.546 W
4,700.0	8.00	63.81	4,666.6	215.0	437.1	387,955.58	753,842.02	32° 3' 52.967 N	103° 38' 50.400 W
4,800.0	8.00	63.81	4,765.6	221.1	449.6	387,961.72	753,854.51	32° 3' 53.027 N	103° 38' 50.255 W
4,900.0	8.00	63.81	4,864.6	227.3	462.1	387,967.86	753,867.00	32° 3' 53.087 N	103° 38' 50.109 W
5,000.0	8.00	63.81	4,963.7	233.4	474.6	387,974.00	753,879.49	32° 3' 53.147 N	103° 38' 49.964 W
5,100.0	8.00	63.81	5,062.7	239.6	487.1	387,980.15	753,891.98	32° 3' 53.207 N	103° 38' 49.818 W
5,200.0	8.00	63.81	5,161.7	245.7	499.6	387,986.29	753,904.47	32° 3' 53.267 N	103° 38' 49.672 W
5,300.0	8.00	63.81	5,260.7	251.8	512.1	387,992.43	753,916.95	32° 3' 53.327 N	103° 38' 49.527 W
5,400.0	8.00	63.81	5,359.8	258.0	524.6	387,998.57	753,929.44	32° 3' 53.387 N	103° 38' 49.381 W

Microsoft
Planning Report - Geographic

Database:	Old	Local Co-ordinate Reference:	Well Mesa #62H
Company:	BTA Oil Producers, LLC	TVD Reference:	GL @ 3254.0usft
Project:	Lea County, NM (NAD 83)	MD Reference:	GL @ 3254.0usft
Site:	Mesa Sec 11, T26S, R32E	North Reference:	Grid
Well:	Mesa #62H	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	
5,500.0	8.00	63.81	5,458.8	264.1	537.1	388,004.71	753,941.93	32° 3' 53.447 N	103° 38' 49.236 W	
5,600.0	8.00	63.81	5,557.8	270.3	549.5	388,010.86	753,954.42	32° 3' 53.507 N	103° 38' 49.090 W	
5,700.0	8.00	63.81	5,656.9	276.4	562.0	388,017.00	753,966.91	32° 3' 53.567 N	103° 38' 48.945 W	
5,800.0	8.00	63.81	5,755.9	282.6	574.5	388,023.14	753,979.39	32° 3' 53.627 N	103° 38' 48.799 W	
5,883.8	8.00	63.81	5,838.8	287.7	585.0	388,028.28	753,989.86	32° 3' 53.677 N	103° 38' 48.677 W	
5,900.0	7.68	63.81	5,854.9	288.7	587.0	388,029.26	753,991.84	32° 3' 53.687 N	103° 38' 48.654 W	
6,000.0	5.68	63.81	5,954.2	293.8	597.4	388,034.39	754,002.27	32° 3' 53.737 N	103° 38' 48.532 W	
6,100.0	3.68	63.81	6,053.9	297.4	604.7	388,037.99	754,009.59	32° 3' 53.772 N	103° 38' 48.447 W	
6,200.0	1.68	63.81	6,153.8	299.5	608.9	388,040.05	754,013.77	32° 3' 53.792 N	103° 38' 48.398 W	
6,283.8	0.00	0.00	6,237.5	300.0	610.0	388,040.59	754,014.87	32° 3' 53.797 N	103° 38' 48.385 W	
6,300.0	0.00	0.00	6,253.8	300.0	610.0	388,040.59	754,014.87	32° 3' 53.797 N	103° 38' 48.385 W	
6,400.0	0.00	0.00	6,353.8	300.0	610.0	388,040.59	754,014.87	32° 3' 53.797 N	103° 38' 48.385 W	
6,500.0	0.00	0.00	6,453.8	300.0	610.0	388,040.59	754,014.87	32° 3' 53.797 N	103° 38' 48.385 W	
6,600.0	0.00	0.00	6,553.8	300.0	610.0	388,040.59	754,014.87	32° 3' 53.797 N	103° 38' 48.385 W	
6,700.0	0.00	0.00	6,653.8	300.0	610.0	388,040.59	754,014.87	32° 3' 53.797 N	103° 38' 48.385 W	
6,800.0	0.00	0.00	6,753.8	300.0	610.0	388,040.59	754,014.87	32° 3' 53.797 N	103° 38' 48.385 W	
6,900.0	0.00	0.00	6,853.8	300.0	610.0	388,040.59	754,014.87	32° 3' 53.797 N	103° 38' 48.385 W	
7,000.0	0.00	0.00	6,953.8	300.0	610.0	388,040.59	754,014.87	32° 3' 53.797 N	103° 38' 48.385 W	
7,100.0	0.00	0.00	7,053.8	300.0	610.0	388,040.59	754,014.87	32° 3' 53.797 N	103° 38' 48.385 W	
7,200.0	0.00	0.00	7,153.8	300.0	610.0	388,040.59	754,014.87	32° 3' 53.797 N	103° 38' 48.385 W	
7,300.0	0.00	0.00	7,253.8	300.0	610.0	388,040.59	754,014.87	32° 3' 53.797 N	103° 38' 48.385 W	
7,400.0	0.00	0.00	7,353.8	300.0	610.0	388,040.59	754,014.87	32° 3' 53.797 N	103° 38' 48.385 W	
7,500.0	0.00	0.00	7,453.8	300.0	610.0	388,040.59	754,014.87	32° 3' 53.797 N	103° 38' 48.385 W	
7,600.0	0.00	0.00	7,553.8	300.0	610.0	388,040.59	754,014.87	32° 3' 53.797 N	103° 38' 48.385 W	
7,700.0	0.00	0.00	7,653.8	300.0	610.0	388,040.59	754,014.87	32° 3' 53.797 N	103° 38' 48.385 W	
7,800.0	0.00	0.00	7,753.8	300.0	610.0	388,040.59	754,014.87	32° 3' 53.797 N	103° 38' 48.385 W	
7,900.0	0.00	0.00	7,853.8	300.0	610.0	388,040.59	754,014.87	32° 3' 53.797 N	103° 38' 48.385 W	
8,000.0	0.00	0.00	7,953.8	300.0	610.0	388,040.59	754,014.87	32° 3' 53.797 N	103° 38' 48.385 W	
8,100.0	0.00	0.00	8,053.8	300.0	610.0	388,040.59	754,014.87	32° 3' 53.797 N	103° 38' 48.385 W	
8,200.0	0.00	0.00	8,153.8	300.0	610.0	388,040.59	754,014.87	32° 3' 53.797 N	103° 38' 48.385 W	
8,300.0	0.00	0.00	8,253.8	300.0	610.0	388,040.59	754,014.87	32° 3' 53.797 N	103° 38' 48.385 W	
8,400.0	0.00	0.00	8,353.8	300.0	610.0	388,040.59	754,014.87	32° 3' 53.797 N	103° 38' 48.385 W	
8,500.0	0.00	0.00	8,453.8	300.0	610.0	388,040.59	754,014.87	32° 3' 53.797 N	103° 38' 48.385 W	
8,600.0	0.00	0.00	8,553.8	300.0	610.0	388,040.59	754,014.87	32° 3' 53.797 N	103° 38' 48.385 W	
8,700.0	0.00	0.00	8,653.8	300.0	610.0	388,040.59	754,014.87	32° 3' 53.797 N	103° 38' 48.385 W	
8,800.0	0.00	0.00	8,753.8	300.0	610.0	388,040.59	754,014.87	32° 3' 53.797 N	103° 38' 48.385 W	
8,900.0	0.00	0.00	8,853.8	300.0	610.0	388,040.59	754,014.87	32° 3' 53.797 N	103° 38' 48.385 W	
9,000.0	0.00	0.00	8,953.8	300.0	610.0	388,040.59	754,014.87	32° 3' 53.797 N	103° 38' 48.385 W	
9,100.0	0.00	0.00	9,053.8	300.0	610.0	388,040.59	754,014.87	32° 3' 53.797 N	103° 38' 48.385 W	
9,200.0	0.00	0.00	9,153.8	300.0	610.0	388,040.59	754,014.87	32° 3' 53.797 N	103° 38' 48.385 W	
9,300.0	0.00	0.00	9,253.8	300.0	610.0	388,040.59	754,014.87	32° 3' 53.797 N	103° 38' 48.385 W	
9,400.0	0.00	0.00	9,353.8	300.0	610.0	388,040.59	754,014.87	32° 3' 53.797 N	103° 38' 48.385 W	
9,500.0	0.00	0.00	9,453.8	300.0	610.0	388,040.59	754,014.87	32° 3' 53.797 N	103° 38' 48.385 W	
9,600.0	0.00	0.00	9,553.8	300.0	610.0	388,040.59	754,014.87	32° 3' 53.797 N	103° 38' 48.385 W	
9,700.0	0.00	0.00	9,653.8	300.0	610.0	388,040.59	754,014.87	32° 3' 53.797 N	103° 38' 48.385 W	
9,800.0	0.00	0.00	9,753.8	300.0	610.0	388,040.59	754,014.87	32° 3' 53.797 N	103° 38' 48.385 W	
9,900.0	0.00	0.00	9,853.8	300.0	610.0	388,040.59	754,014.87	32° 3' 53.797 N	103° 38' 48.385 W	
10,000.0	0.00	0.00	9,953.8	300.0	610.0	388,040.59	754,014.87	32° 3' 53.797 N	103° 38' 48.385 W	
10,100.0	0.00	0.00	10,053.8	300.0	610.0	388,040.59	754,014.87	32° 3' 53.797 N	103° 38' 48.385 W	
10,200.0	0.00	0.00	10,153.8	300.0	610.0	388,040.59	754,014.87	32° 3' 53.797 N	103° 38' 48.385 W	
10,300.0	0.00	0.00	10,253.8	300.0	610.0	388,040.59	754,014.87	32° 3' 53.797 N	103° 38' 48.385 W	
10,400.0	0.00	0.00	10,353.8	300.0	610.0	388,040.59	754,014.87	32° 3' 53.797 N	103° 38' 48.385 W	
10,500.0	0.00	0.00	10,453.8	300.0	610.0	388,040.59	754,014.87	32° 3' 53.797 N	103° 38' 48.385 W	
10,600.0	0.00	0.00	10,553.8	300.0	610.0	388,040.59	754,014.87	32° 3' 53.797 N	103° 38' 48.385 W	
10,700.0	0.00	0.00	10,653.8	300.0	610.0	388,040.59	754,014.87	32° 3' 53.797 N	103° 38' 48.385 W	

Microsoft
Planning Report - Geographic

Database:	Old	Local Co-ordinate Reference:	Well Mesa #62H
Company:	BTA Oil Producers, LLC	TVD Reference:	GL @ 3254.0usft
Project:	Lea County, NM (NAD 83)	MD Reference:	GL @ 3254.0usft
Site:	Mesa Sec 11, T26S, R32E	North Reference:	Grid
Well:	Mesa #62H	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	
10,800.0	0.00	0.00	10,753.8	300.0	610.0	388,040.59	754,014.87	32° 3' 53.797 N	103° 38' 48.385 W	
10,900.0	0.00	0.00	10,853.8	300.0	610.0	388,040.59	754,014.87	32° 3' 53.797 N	103° 38' 48.385 W	
11,000.0	0.00	0.00	10,953.8	300.0	610.0	388,040.59	754,014.87	32° 3' 53.797 N	103° 38' 48.385 W	
11,100.0	0.00	0.00	11,053.8	300.0	610.0	388,040.59	754,014.87	32° 3' 53.797 N	103° 38' 48.385 W	
11,200.0	0.00	0.00	11,153.8	300.0	610.0	388,040.59	754,014.87	32° 3' 53.797 N	103° 38' 48.385 W	
11,300.0	0.00	0.00	11,253.8	300.0	610.0	388,040.59	754,014.87	32° 3' 53.797 N	103° 38' 48.385 W	
11,400.0	0.00	0.00	11,353.8	300.0	610.0	388,040.59	754,014.87	32° 3' 53.797 N	103° 38' 48.385 W	
11,500.0	0.00	0.00	11,453.8	300.0	610.0	388,040.59	754,014.87	32° 3' 53.797 N	103° 38' 48.385 W	
11,537.7	0.00	0.00	11,491.5	300.0	610.0	388,040.59	754,014.87	32° 3' 53.797 N	103° 38' 48.385 W	
11,600.0	0.00	0.00	11,553.8	300.0	610.0	388,040.59	754,014.87	32° 3' 53.797 N	103° 38' 48.385 W	
11,612.8	0.00	0.00	11,566.5	300.0	610.0	388,040.59	754,014.87	32° 3' 53.797 N	103° 38' 48.385 W	
11,700.0	10.47	179.34	11,653.3	292.1	610.1	388,032.64	754,014.96	32° 3' 53.719 N	103° 38' 48.385 W	
11,800.0	22.47	179.34	11,749.0	263.8	610.4	388,004.35	754,015.29	32° 3' 53.439 N	103° 38' 48.383 W	
11,900.0	34.47	179.34	11,836.8	216.2	611.0	387,956.77	754,015.84	32° 3' 52.968 N	103° 38' 48.380 W	
12,000.0	46.47	179.34	11,912.7	151.4	611.7	387,892.00	754,016.58	32° 3' 52.327 N	103° 38' 48.377 W	
12,100.0	58.47	179.34	11,973.5	72.3	612.6	387,812.85	754,017.49	32° 3' 51.544 N	103° 38' 48.372 W	
12,200.0	70.47	179.34	12,016.5	-17.8	613.7	387,722.79	754,018.53	32° 3' 50.652 N	103° 38' 48.366 W	
12,300.0	82.47	179.34	12,039.9	-114.9	614.8	387,625.75	754,019.64	32° 3' 49.692 N	103° 38' 48.361 W	
12,362.8	90.00	179.34	12,044.0	-177.4	615.5	387,563.17	754,020.36	32° 3' 49.073 N	103° 38' 48.357 W	
12,400.0	90.00	179.34	12,044.0	-214.7	615.9	387,525.94	754,020.79	32° 3' 48.704 N	103° 38' 48.355 W	
12,500.0	90.00	179.34	12,044.0	-314.7	617.1	387,425.95	754,021.94	32° 3' 47.715 N	103° 38' 48.349 W	
12,600.0	90.00	179.34	12,044.0	-414.6	618.2	387,325.97	754,023.09	32° 3' 46.725 N	103° 38' 48.343 W	
12,700.0	90.00	179.34	12,044.0	-514.6	619.4	387,225.98	754,024.24	32° 3' 45.736 N	103° 38' 48.337 W	
12,800.0	90.00	179.34	12,044.0	-614.6	620.5	387,125.99	754,025.38	32° 3' 44.746 N	103° 38' 48.331 W	
12,900.0	90.00	179.34	12,044.0	-714.6	621.7	387,026.00	754,026.53	32° 3' 43.757 N	103° 38' 48.325 W	
13,000.0	90.00	179.34	12,044.0	-814.6	622.8	386,926.01	754,027.68	32° 3' 42.767 N	103° 38' 48.319 W	
13,100.0	90.00	179.34	12,044.0	-914.6	624.0	386,826.02	754,028.83	32° 3' 41.778 N	103° 38' 48.313 W	
13,200.0	90.00	179.34	12,044.0	-1,014.6	625.1	386,726.03	754,029.98	32° 3' 40.788 N	103° 38' 48.307 W	
13,300.0	90.00	179.34	12,044.0	-1,114.6	626.3	386,626.04	754,031.13	32° 3' 39.799 N	103° 38' 48.301 W	
13,400.0	90.00	179.34	12,044.0	-1,214.6	627.4	386,526.05	754,032.28	32° 3' 38.809 N	103° 38' 48.295 W	
13,500.0	90.00	179.34	12,044.0	-1,314.6	628.6	386,426.06	754,033.43	32° 3' 37.820 N	103° 38' 48.289 W	
13,600.0	90.00	179.34	12,044.0	-1,414.6	629.7	386,326.07	754,034.58	32° 3' 36.830 N	103° 38' 48.283 W	
13,700.0	90.00	179.34	12,044.0	-1,514.6	630.9	386,226.08	754,035.73	32° 3' 35.840 N	103° 38' 48.277 W	
13,800.0	90.00	179.34	12,044.0	-1,614.6	632.0	386,126.09	754,036.88	32° 3' 34.851 N	103° 38' 48.271 W	
13,900.0	90.00	179.34	12,044.0	-1,714.6	633.2	386,026.10	754,038.03	32° 3' 33.861 N	103° 38' 48.265 W	
14,000.0	90.00	179.34	12,044.0	-1,814.6	634.3	385,926.11	754,039.18	32° 3' 32.872 N	103° 38' 48.259 W	
14,100.0	90.00	179.34	12,044.0	-1,914.6	635.5	385,826.12	754,040.32	32° 3' 31.882 N	103° 38' 48.253 W	
14,200.0	90.00	179.34	12,044.0	-2,014.5	636.6	385,726.13	754,041.47	32° 3' 30.893 N	103° 38' 48.247 W	
14,300.0	90.00	179.34	12,044.0	-2,114.5	637.8	385,626.14	754,042.62	32° 3' 29.903 N	103° 38' 48.241 W	
14,400.0	90.00	179.34	12,044.0	-2,214.5	638.9	385,526.15	754,043.77	32° 3' 28.914 N	103° 38' 48.235 W	
14,500.0	90.00	179.34	12,044.0	-2,314.5	640.0	385,426.17	754,044.92	32° 3' 27.924 N	103° 38' 48.229 W	
14,600.0	90.00	179.34	12,044.0	-2,414.5	641.2	385,326.18	754,046.07	32° 3' 26.935 N	103° 38' 48.224 W	
14,700.0	90.00	179.34	12,044.0	-2,514.5	642.3	385,226.19	754,047.22	32° 3' 25.945 N	103° 38' 48.218 W	
14,800.0	90.00	179.34	12,044.0	-2,614.5	643.5	385,126.20	754,048.37	32° 3' 24.956 N	103° 38' 48.212 W	
14,900.0	90.00	179.34	12,044.0	-2,714.5	644.6	385,026.21	754,049.52	32° 3' 23.966 N	103° 38' 48.206 W	
15,000.0	90.00	179.34	12,044.0	-2,814.5	645.8	384,926.22	754,050.67	32° 3' 22.977 N	103° 38' 48.200 W	
15,100.0	90.00	179.34	12,044.0	-2,914.5	646.9	384,826.23	754,051.82	32° 3' 21.987 N	103° 38' 48.194 W	
15,200.0	90.00	179.34	12,044.0	-3,014.5	648.1	384,726.24	754,052.97	32° 3' 20.998 N	103° 38' 48.188 W	
15,300.0	90.00	179.34	12,044.0	-3,114.5	649.2	384,626.25	754,054.12	32° 3' 20.008 N	103° 38' 48.182 W	
15,400.0	90.00	179.34	12,044.0	-3,214.5	650.4	384,526.26	754,055.26	32° 3' 19.018 N	103° 38' 48.176 W	
15,500.0	90.00	179.34	12,044.0	-3,314.5	651.5	384,426.27	754,056.41	32° 3' 18.029 N	103° 38' 48.170 W	
15,600.0	90.00	179.34	12,044.0	-3,414.5	652.7	384,326.28	754,057.56	32° 3' 17.039 N	103° 38' 48.164 W	
15,700.0	90.00	179.34	12,044.0	-3,514.4	653.8	384,226.29	754,058.71	32° 3' 16.050 N	103° 38' 48.158 W	
15,800.0	90.00	179.34	12,044.0	-3,614.4	655.0	384,126.30	754,059.86	32° 3' 15.060 N	103° 38' 48.152 W	
15,900.0	90.00	179.34	12,044.0	-3,714.4	656.1	384,026.31	754,061.01	32° 3' 14.071 N	103° 38' 48.146 W	

Microsoft
Planning Report - Geographic

Database:	Old	Local Co-ordinate Reference:	Well Mesa #62H
Company:	BTA Oil Producers, LLC	TVD Reference:	GL @ 3254.0usft
Project:	Lea County, NM (NAD 83)	MD Reference:	GL @ 3254.0usft
Site:	Mesa Sec 11, T26S, R32E	North Reference:	Grid
Well:	Mesa #62H	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	
16,000.0	90.00	179.34	12,044.0	-3,814.4	657.3	383,926.32	754,062.16	32° 3' 13.081 N	103° 38' 48.140 W	
16,100.0	90.00	179.34	12,044.0	-3,914.4	658.4	383,826.33	754,063.31	32° 3' 12.092 N	103° 38' 48.134 W	
16,200.0	90.00	179.34	12,044.0	-4,014.4	659.6	383,726.34	754,064.46	32° 3' 11.102 N	103° 38' 48.128 W	
16,300.0	90.00	179.34	12,044.0	-4,114.4	660.7	383,626.36	754,065.61	32° 3' 10.113 N	103° 38' 48.122 W	
16,400.0	90.00	179.34	12,044.0	-4,214.4	661.9	383,526.37	754,066.76	32° 3' 9.123 N	103° 38' 48.116 W	
16,500.0	90.00	179.34	12,044.0	-4,314.4	663.0	383,426.38	754,067.91	32° 3' 8.134 N	103° 38' 48.110 W	
16,600.0	90.00	179.34	12,044.0	-4,414.4	664.2	383,326.39	754,069.05	32° 3' 7.144 N	103° 38' 48.104 W	
16,700.0	90.00	179.34	12,044.0	-4,514.4	665.3	383,226.40	754,070.20	32° 3' 6.155 N	103° 38' 48.098 W	
16,800.0	90.00	179.34	12,044.0	-4,614.4	666.5	383,126.41	754,071.35	32° 3' 5.165 N	103° 38' 48.092 W	
16,900.0	90.00	179.34	12,044.0	-4,714.4	667.6	383,026.42	754,072.50	32° 3' 4.176 N	103° 38' 48.086 W	
17,000.0	90.00	179.34	12,044.0	-4,814.4	668.8	382,926.43	754,073.65	32° 3' 3.186 N	103° 38' 48.080 W	
17,100.0	90.00	179.34	12,044.0	-4,914.4	669.9	382,826.44	754,074.80	32° 3' 2.196 N	103° 38' 48.074 W	
17,160.5	90.00	179.34	12,044.0	-4,974.9	670.6	382,765.90	754,075.50	32° 3' 1.597 N	103° 38' 48.071 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 #62H BHL - plan hits target center - Point	0.00	0.00	12,044.0	-4,974.9	670.6	382,765.90	754,075.50	32° 3' 1.597 N	103° 38' 48.071 W	



TOTAL LENGTH = 78'-3/8"

TUBING SPOOL

SW-TCM

13-5/8" 5M x 7-1/16" 10M
5-1/2" PP SEAL
w/ (2) 1-13/16" 10M SSO

SW-MB SPOOL ASSEMBLY

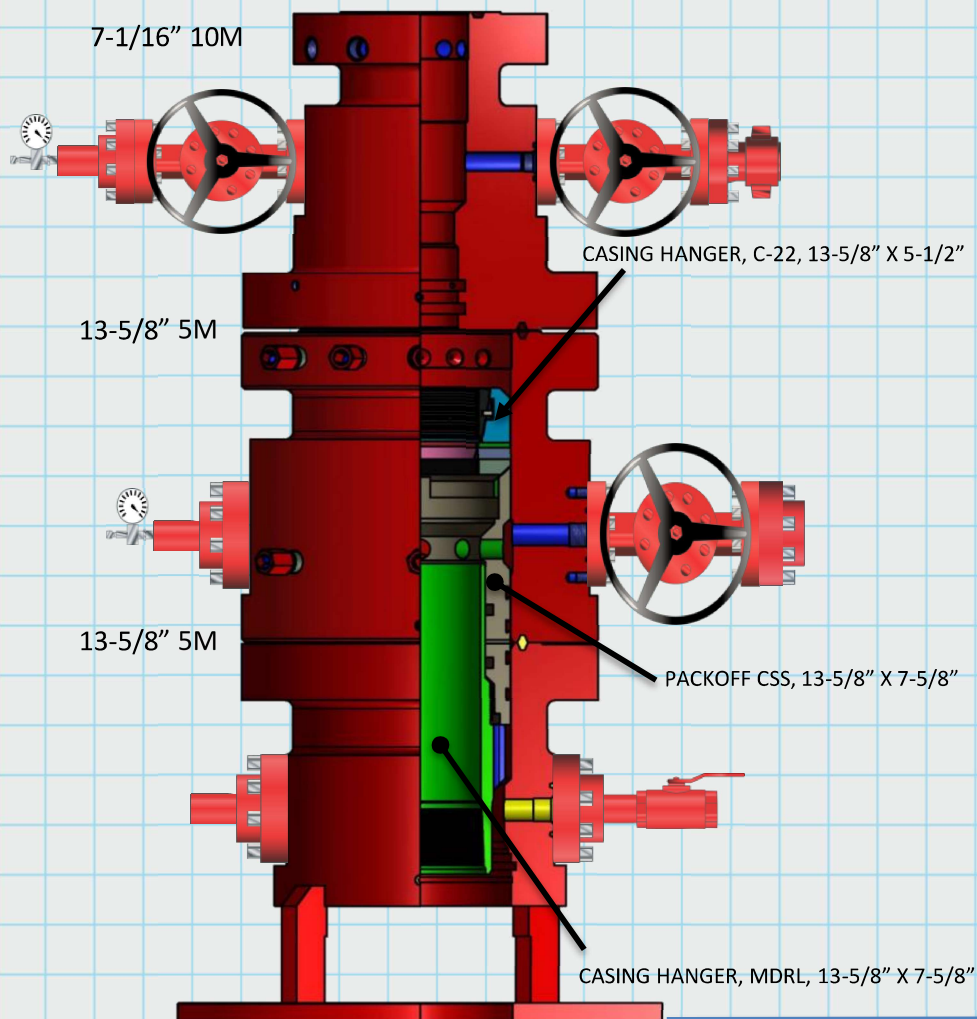
UPPER MBH

13-5/8" 5M x 13-5/8" 5M
w/ (2) 2-1/16" 5M SSO

CASING HEAD ASSEMBLY

LOWER MBH

13-5/8" 5M x 10-3/4" SOW
w/ (2) 2-1/16" 5M SSO



10-3/4" SOW x 7-5/8" x 5-1/2"





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

PWD Data Report

04/16/2021

APD ID: 10400058887

Submission Date: 07/09/2020

Operator Name: BTA OIL PRODUCERS LLC

Well Name: MESA 8105 11 FEDERAL

Well Number: 62H

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 FEDERAL

Well Number: 62H

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 FEDERAL**Well Number:** 62H**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 FEDERAL

Well Number: 62H

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

04/16/2021

APD ID: 10400058887

Submission Date: 07/09/2020

Highlighted data
reflects the most
recent changes

Operator Name: BTA OIL PRODUCERS LLC

Well Name: MESA 8105 11 FEDERAL

Well Number: 62H

[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:

DISTRICT I

1625 N. French Dr., Hobbs, NM 88240
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DISTRICT II

811 S. First St., Artesia, NM 88210
Phone: (505) 748-1283 Fax: (505) 748-9720

DISTRICT III

1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

DISTRICT IV

1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

Form C-102

Revised August 1, 2011

Submit one copy to appropriate
District Office

□ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-48965	Pool Code 98158	Pool Name WC-025 G-09 S253236A; UPR WOLFCAMP
Property Code 328173	Property Name MESA 8105 11 FEDERAL	Well Number 62H
OGRID No. 260297	Operator Name BTA OIL PRODUCERS, LLC	Elevation 3254'

Surface Location

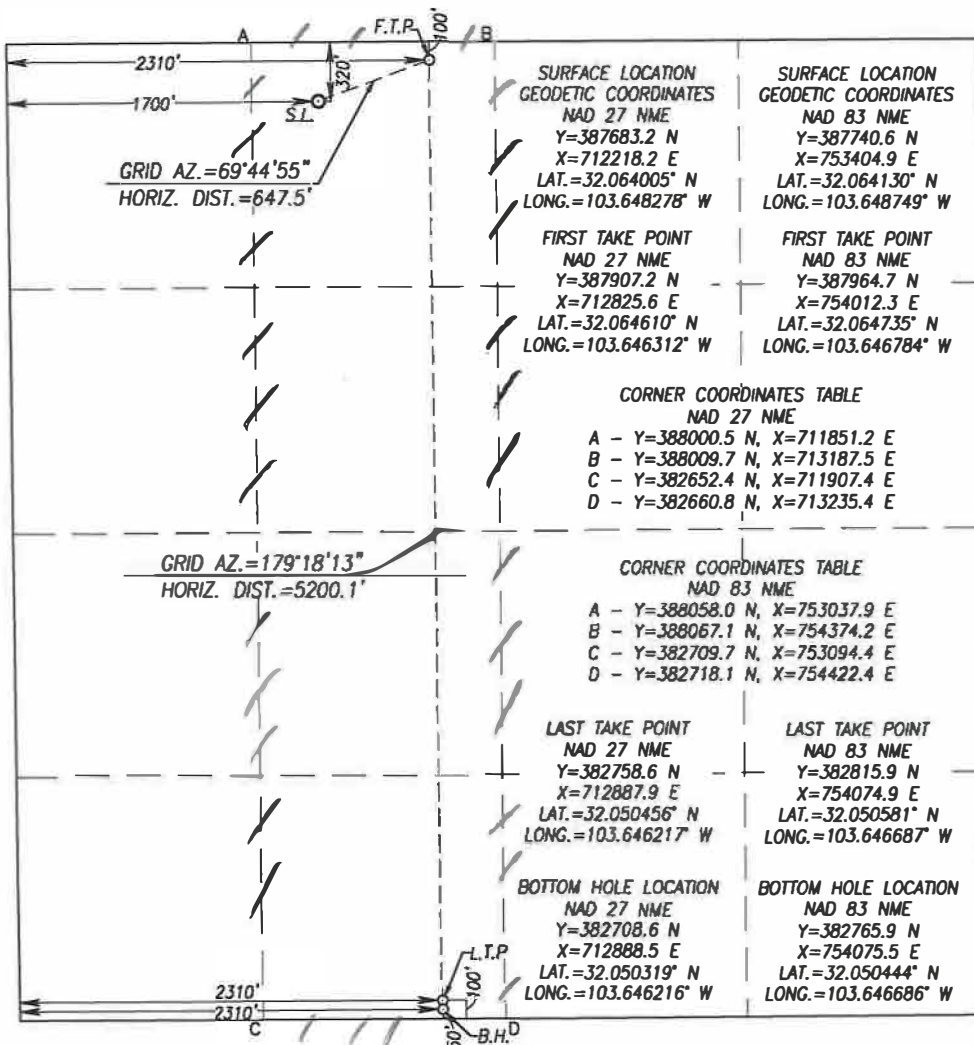
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	11	26-S	32-E		320	NORTH	1700	WEST	LEA

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	11	26-S	32-E		50	SOUTH	2310	WEST	LEA

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
160			

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



OPERATOR CERTIFICATION

I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Sammy Hajar 7/9/2020
Signature Date

Printed Name

SHAJAR@BTAOIL.COM

E-mail Address

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Ronald J. Eidson 02/25/2020
Date of Survey 3239
Signature & Seal of Professional Surveyor

Certificate Number Gary G. Eidson 12641

Ronald J. Eidson 3239

ACK JWSC W.O.: 19.11.1272

District I
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811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit Original
to Appropriate
District Office

GAS CAPTURE PLAN

Date: 5/27/2020

☒ Original Operator & OGRID No.: 260297
☐ Amended - Reason for Amendment: _____

This Gas Capture Plan outlines actions to be taken by the Operator to reduce well/production facility flaring/venting for new completion (new drill, recomple to new zone, re-frac) activity.

Note: Form C-129 must be submitted and approved prior to exceeding 60 days allowed by Rule (Subsection A of 19.15.18.12 NMAC).

Well(s)/Production Facility – Name of facility

The well(s) that will be located at the production facility are shown in the table below.

Well Name	API	Well Location (ULSTR)	Footages	Expected MCF/D	Flared or Vented	Comments
MESA 8105 11	30-025-48965	SEC 11 ; 26S ; 32E	320 FNL 1700 FWL	2000	Flared	Battery Connected
FEDERAL 62H						To ETP System

Gathering System and Pipeline Notification

Well(s) will be connected to a production facility after flowback operations are complete, if gas transporter system is in place. The gas produced from production facility is dedicated to Gas Transporter and will be connected to Gas Transporter low/high pressure gathering system located in LEA County, New Mexico. It will require 0 ' of pipeline to (ETP) connect the facility to low/high pressure gathering system. Operator provides (periodically) to Gas Transporter a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, Operator and Gas Transporter have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at Gas Transporter Processing Plant located in Sec.____, Twn.____, Rng.____, _____ County, New Mexico. The actual flow of the gas will be based on compression operating parameters and gathering system pressures.

Flowback Strategy

After the fracture treatment/completion operations, well(s) will be produced to temporary production tanks and gas will be flared or vented. During flowback, the fluids and sand content will be monitored. When the produced fluids contain minimal sand, the wells will be turned to production facilities. Gas sales should start as soon as the wells start flowing through the production facilities, unless there are operational issues on Gas Transporter system at that time. Based on current information, it is Operator's belief the system can take this gas upon completion of the well(s).

Safety requirements during cleanout operations from the use of underbalanced air cleanout systems may necessitate that sand and non-pipeline quality gas be vented and/or flared rather than sold on a temporary basis.

Alternatives to Reduce Flaring

Below are alternatives considered from a conceptual standpoint to reduce the amount of gas flared.

- Power Generation – On lease
 - Only a portion of gas is consumed operating the generator, remainder of gas will be flared
- Compressed Natural Gas – On lease
 - Gas flared would be minimal, but might be uneconomical to operate when gas volume declines
- NGL Removal – On lease
 - Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines

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Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 25844

CONDITIONS

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID: 260297
	Action Number: 25844
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
pkautz	Will require a File As Drilled C-102 and a Directional Survey with the C-104	6/3/2021
pkautz	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string	6/3/2021