Form 3160-3
(June 2015)

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

5. Lease Serial No.: NMNM014492

6. If Indian, Allotee or Tribe Name:

1a. Type of work: ☑ DRILL ☐ REENTER

1b. Type of Well: ☑ Oil Well ☐ Gas Well ☐ Other

1c. Type of Completion: ☐ Hydraulic Fracturing ☑ Single Zone ☐ Multiple Zone

7. If Unit or CA Agreement, Name and No.:

8. Lease Name and Well No.: MESA 8105 11 FEDERAL [328173] 58H

2. Name of Operator: BTA OIL PRODUCERS LLC [260297]

9. API Well No.: 30-025-48963

3a. Address: 104 SOUTH PECOS STREET, MIDLAND, TX 79701

3b. Phone No. *(include area code)*: (432) 682-3753

10. Field and Pool, or Exploratory: WC-025/WOLFCAMP SAND [98158]

4. Location of Well *(Report location clearly and in accordance with any State requirements.*)*

At surface: NWNE / 290 FNL / 1730 FEL / LAT 32.064212 / LONG -103.642564

At proposed prod. zone: SESE / 50 FSL / 330 FEL / LAT 32.050442 / LONG -103.638064

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

13. State: NM

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any): 290 feet

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.: 459 feet

19. Proposed Depth: 12088 feet / 17226 feet

20. BLM/BIA Bond No. in file: FED: NMB001711

21. Elevations (Show whether DF, KDB, RT, GL, etc.): 3253 feet

22. Approximate date work will start*: 11/14/2021

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.
2. A Drilling Plan.
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).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification.
6. Such other site specific information and/or plans as may be requested by the BLM.

25. Signature	Name *(Printed/Typed)*	Date
(Electronic Submission)	SAMMY HAJAR / Ph: (432) 682-3753	06/19/2020

Title: Regulatory Analyst

Approved by *(Signature)*	Name *(Printed/Typed)*	Date
(Electronic Submission)	Cody Layton / Ph: (575) 234-5959	04/12/2021

Title	Office
Assistant Field Manager Lands & Minerals	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

APPROVED WITH CONDITIONS

06/02/2021 KZ

SL

(Continued on page 2)

*(Instructions on page 2)

Approval Date: 04/12/2021

PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	**BTA Oil Producers LLC**
LEASE NO.:	**NMNM014492**
WELL NAME & NO.:	MESA 8105 11 Federal 58H
SURFACE HOLE FOOTAGE:	290'/N & 1730'/E
BOTTOM HOLE FOOTAGE	50'/S & 330'/E
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

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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 **11,992** 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 -6%, 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 tlead 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.

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BUREAU OF LAND MANAGEMENT

Application Data Report

04/15/2021

APD ID: 10400058051 **Submission Date:** 06/19/2020

Operator Name: BTA OIL PRODUCERS LLC

Well Name: MESA 8105 11 FEDERAL **Well Number:** 58H

Well Type: OIL WELL **Well Work Type:** Drill

Highlighted data reflects the most recent changes

Show Final Text

Section 1 - General

APD ID: 10400058051 **Tie to previous NOS?** **Submission Date:** 06/19/2020

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:** 58H **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:** 58H

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?** N **New surface disturbance?**

Type of Well Pad: MULTIPLE WELL **Multiple Well Pad Name:** MESA 8105 11 FEDERAL **Number:** 58H, 59H, 60H, and 61H

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:** 459 FT **Distance to lease line:** 290 FT

Reservoir well spacing assigned acres Measurement: 160 Acres

Well plat: Signed_Mesa_8105_11_Federal_58H_C102_20200615134516.pdf

Well work start Date: 11/14/2021 **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	290	FNL	1730	FEL	26S	32E	11	Aliquot NWNE	32.064212	-103.642564	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 014492	3253	0	0	Y
KOP Leg #1	100	FNL	330	FEL	26S	32E	11	Aliquot NENE	32.064733	-103.638046	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 014492	-8357	11732	11610	Y
PPP Leg #1-1	100	FNL	330	FEL	26S	32E	11	Aliquot NENE	32.064733	-103.638046	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 014492	-8750	12197	12003	Y

Operator Name: BTA OIL PRODUCERS LLC

Well Name: MESA 8105 11 FEDERAL **Well Number:** 58H

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	330	FEL	26S	32E	11	Aliquot SESE	32.050579	-103.638064	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 014492	-8835	16946	12088	Y
BHL Leg #1	50	FSL	330	FEL	26S	32E	11	Aliquot SESE	32.050442	-103.638064	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 014492	-8835	17226	12088	Y

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

Drilling Plan Data Report
04/15/2021

APD ID: 10400058051
Submission Date: 06/19/2020

Operator Name: BTA OIL PRODUCERS LLC

Well Name: MESA 8105 11 FEDERAL
Well Number: 58H

Well Type: OIL WELL
Well Work Type: Drill

Highlighted data reflects the most recent changes

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Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical Depth	Measured Depth	Lithologies	Mineral Resources	Producing Formation
759411	QUATERNARY	3253	0	0	ALLUVIUM	NONE	N
759412	RUSTLER	2535	718	718	ANHYDRITE	NONE	N
759413	TOP SALT	2055	1198	1198	SALT	NONE	N
759414	BASE OF SALT	-1150	4403	4403	SALT	NONE	N
759415	DELAWARE	-1370	4623	4623	LIMESTONE	NATURAL GAS, OIL	N
759424	BELL CANYON	-1395	4648	4648	SANDSTONE	NATURAL GAS, OIL	N
759417	CHERRY CANYON	-2745	5998	5998	SANDSTONE	NATURAL GAS, OIL	N
759418	BRUSHY CANYON	-4025	7278	7278	SANDSTONE	NATURAL GAS, OIL	N
759419	BONE SPRING LIME	-5615	8868	8868	LIMESTONE	NATURAL GAS, OIL	N
759420	FIRST BONE SPRING SAND	-6515	9768	9768	SANDSTONE	NATURAL GAS, OIL	N
759421	BONE SPRING 2ND	-7110	10363	10363	SANDSTONE	NATURAL GAS, OIL	N
759422	BONE SPRING 3RD	-8255	11508	11508	SANDSTONE	NATURAL GAS, OIL	N
759423	WOLFCAMP	-8750	12003	12003	SHALE	NATURAL GAS, OIL	Y

Section 2 - Blowout Prevention

Operator Name: BTA OIL PRODUCERS LLC

Well Name: MESA 8105 11 FEDERAL **Well Number:** 58H

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	745	0	745	3253	2508	745	J-55	40.5	ST&C	4.9	9.7	DRY	13.9	DRY	20.8
2	INTERMEDIATE	9.875	7.625	NEW	API	Y	0	8100	0	8000	3018	-4747	8100	P-110	29.7	BUTT	1.4	2.4	DRY	4	DRY	3.9
3	PRODUCTION	6.75	5.5	NEW	API	Y	0	11457	0	11336	3018	-8083	11457	P-110	20	BUTT	1.3	1.5	DRY	2.9	DRY	2.8
4	INTERMEDIATE	8.75	7.625	NEW	API	Y	8100	11657	8000	11536	-4635	-8283	3557	P-110	29.7	FJ	1.7	1.7	DRY	2.8	DRY	2.7
5	PRODUCTION	6.75	5.0	NEW	API	Y	11457	17226	11336	12088	-8083	-8835	5769	P-110	18	BUTT	1.3	1.4	DRY	2	DRY	1.9

Operator Name: BTA OIL PRODUCERS LLC

Well Name: MESA 8105 11 FEDERAL **Well Number:** 58H

Casing Attachments

Casing ID: 1 **String Type:** SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Mesa_58H_casing_assumption_20200615140717.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_58H_casing_assumption_20200615140851.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_58H_casing_assumption_20200615141008.JPG

Operator Name: BTA OIL PRODUCERS LLC

Well Name: MESA 8105 11 FEDERAL **Well Number:** 58H

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_58H_casing_assumption_20200615141210.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_58H_casing_assumption_20200615140616.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	500	310	1.8	13.5	558	100	Class C	2% CaCl2
SURFACE	Tail		500	745	200	1.34	14.8	268	100	Class C	2% CaCl2
INTERMEDIATE	Lead	4650	0	4225	680	2.19	12.7	1489.2	50	Class C	0.5% CaCl2
INTERMEDIATE	Tail		4225	4650	150	1.33	14.8	199.5	50	Class C	1% CaCl2
INTERMEDIATE	Lead		4650	8105	355	2.64	10.5	937.2	25	Class H	0.5% CaCl2

Operator Name: BTA OIL PRODUCERS LLC

Well Name: MESA 8105 11 FEDERAL **Well Number:** 58H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
INTERMEDIATE	Tail		8105	11657	400	1.19	15.6	476	25	Class H	1% CaCl2
PRODUCTION	Lead		10660	11457	0	0	0	0		n/a	n/a
PRODUCTION	Lead		11457	17226	640	1.27	14.8	812.8	10	Class H	0.1% Fluid Loss

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	745	OTHER : FW SPUD	8.3	8.4							
745	11657	OTHER : DBE	9	9.4							
11657	12088	OIL-BASED MUD	11	14							

Operator Name: BTA OIL PRODUCERS LLC

Well Name: MESA 8105 11 FEDERAL **Well Number:** 58H

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: 8800 **Anticipated Surface Pressure:** 6140

Anticipated Bottom Hole Temperature(F): 178

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

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards attachment:

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations plan:

BTA_Oil_Producers_LLC___EMERGENCY_CALL_LIST_20190723161502.pdf
H2S_Equipment_Schematic_20190723161502.pdf
H2S_Plan_20190723161502.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Mesa_58H_Wall_plot_20200615151223.pdf
Mesa_58H_directional_plan_20200615151223.pdf
Mesa_8105_58H_Gas_Capture_Plan_20200617095043.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

Continental

ContiTech

CONTITECH RUBBER Industrial Kft.	No:QC-DB- 599/ 2014
	Page: 16 / 176

Rig 94

Asset 24455

QUALITY CONTROL INSPECTION AND TEST CERTIFICATE

CERT. N°: 1592

PURCHASER:	ContiTech Oil & Marine Corp.	P.O. N°:	4500461753
CONTITECH ORDER N°:	539225	HOSE TYPE:	3" ID Choke & Kill Hose
HOSE SERIAL N°:	68547	NOMINAL / ACTUAL LENGTH:	7,62 m / 7,66 m

W.P.	68,9	MPa	10000	psi	T.P.	103,4	MPa	15000	psi

Duration: 60 min.

Pressure test with water at ambient temperature

See attachment. (1 page)

→ 10 Min.

↑ 50 MPa

COUPLINGS Type	Serial N°		Quality	Heat N°
3" coupling with	2574	5533	AISI 4130	A1582N H8672
4 1/16" 10K API Swivel Flange end			AISI 4130	58855
Hub			AISI 4130	A1199N A1423N

Not Designed For Well Testing — **API Spec 16 C**

Fire Rated — **Temperature rate:"B"**

All metal parts are flawless

WE CERTIFY THAT THE ABOVE HOSE HAS BEEN MANUFACTURED IN ACCORDANCE WITH THE TERMS OF THE ORDER INSPECTED AND PRESSURE TESTED AS ABOVE WITH SATISFACTORY RESULT.

STATEMENT OF CONFORMITY: We hereby certify that the above items/equipment supplied by us are in conformity with the terms, conditions and specifications of the above Purchaser Order and that these items/equipment were fabricated inspected and tested in accordance with the referenced standards, codes and specifications and meet the relevant acceptance criteria and design requirements.

Date:	Inspector	Quality Control
04. September 2014.		ContiTech Rubber Industrial Kft. Quality Control Dept.

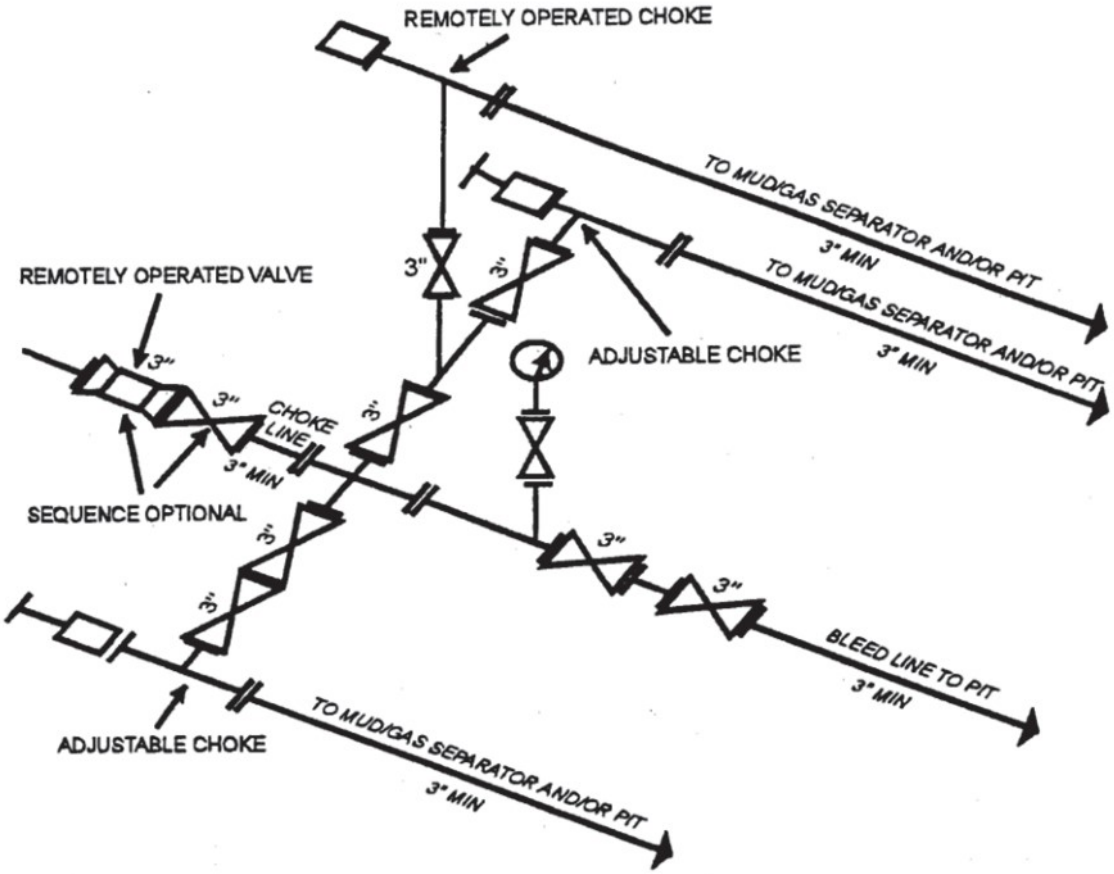
File Name	: 000220_68543,68545+547.GEV,...,000236_68543,68545+547.GEV
File Message	: 68543,68545,68547
Device Type	: GX10
Serial No.	: S5P606399
Data Count	: 9946
Print Group	: Press-Temp
Print Range	: 2014/09/04 01:53:54.000 - 2014/09/04 04:39:39.000
Comment	:

Sampling Int.	: 1.000 sec
Start Time	: 2014/09/04 01:53:54.000
Stop Time	: 2014/09/04 04:39:39.000

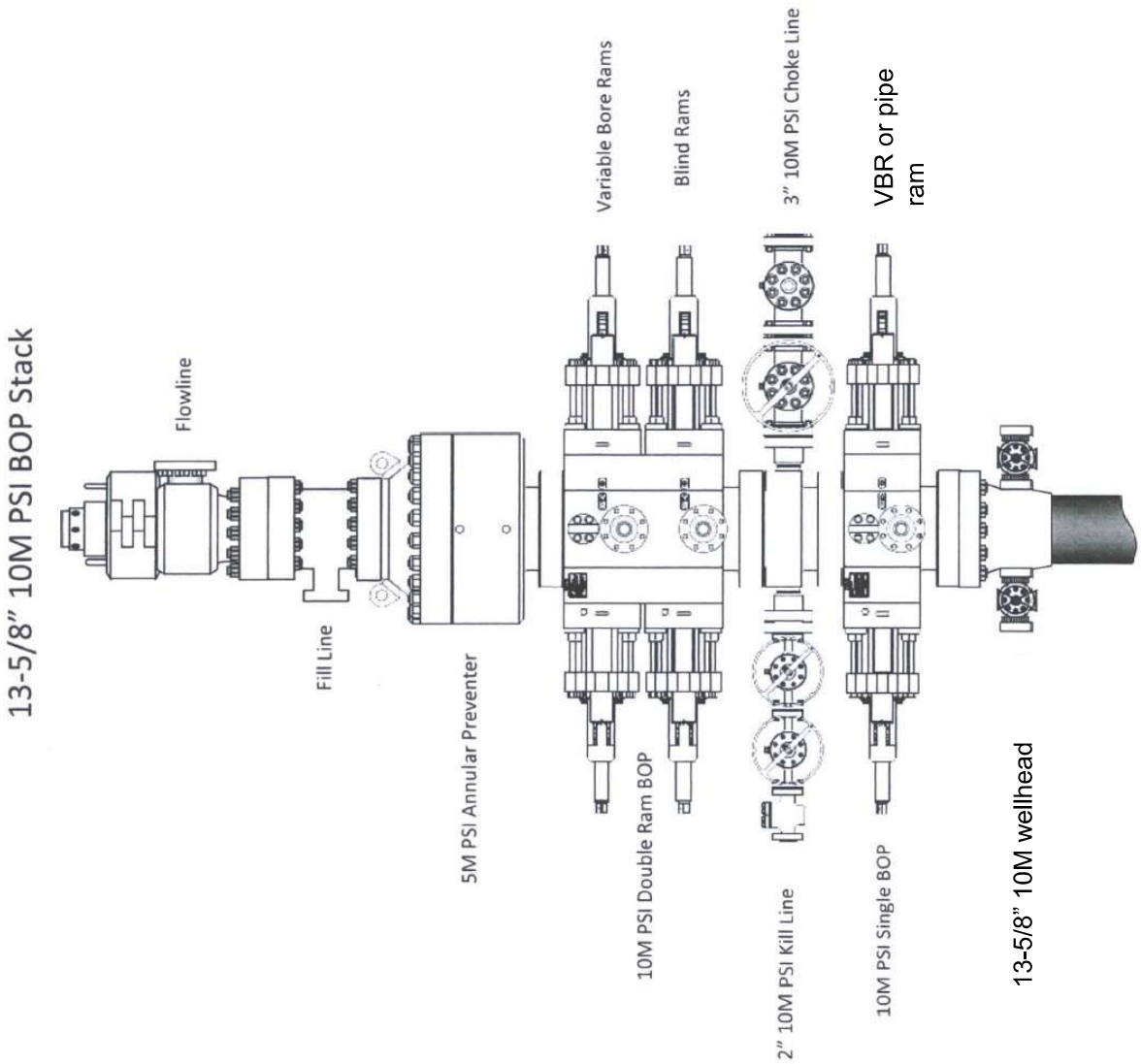
	Cursor A	Cursor B	Difference
Data No.	3432	7032	3600
Absolute Time	2014/09/04 02:51:06.000	2014/09/04 03:51:06.000	01:00:00.000
Tag Comment	Value A	Value B	Value B-A
Pressure[bar]	1082.96	1048.57	-14.39
Ambient Temperature[°C]	23.24	23.14	-0.10

ATTACHMENT OF QUALITY CONTROL INSPECTION AND TEST CERTIFICATE No. 1588, 1590, 1592

Page 1 / 1



10M AND 15M CHOKE MANIFOLD EQUIPMENT - CONFIGURATION OF CHOKES MAY VARY
[53 FR 49661, Dec. 9, 1988 and 54 FR 39528, Sept. 27, 1989]


13-5/8" 10M PSI BOP Stack
Flowline
Fill Line
5M PSI Annular Preventer
10M PSI Double Ram BOP
Variable Bore Rams
Blind Rams
2" 10M PSI Kill Line
3" 10M PSI Choke Line
10M PSI Single BOP
VBR or pipe ram
13-5/8" 10M wellhead

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. Sapce 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)

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 positon
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
104 S Pecos
Midland, TX 79701

WELL: Mesa 8105 11 Fed #58H (WSAP)
TVD: 12088
MD: 17226

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	745	0	745	No	40.5	J-55	STC	4.9	9.7	20.8	13.9	Dry	8.3
9 7/8	7 5/8	0	8100	0	8000	yes	29.7	P110	Buttress	1.4	2.4	3.9	4.0	Dry	9.4
8 3/4	7 5/8	8100	11657	8000	11536	yes	29.7	P110	FJ	1.7	1.7	2.7	2.8	Dry	9.4
6 3/4	5 1/2	0	11457	0	11336	Yes	20	P110	Buttress	1.3	1.5	2.8	2.9	Dry	14
6 3/4	5	11457	17226	11336	12088	Yes	18	P110	Buttress	1.3	1.4	1.9	2.0	Dry	14

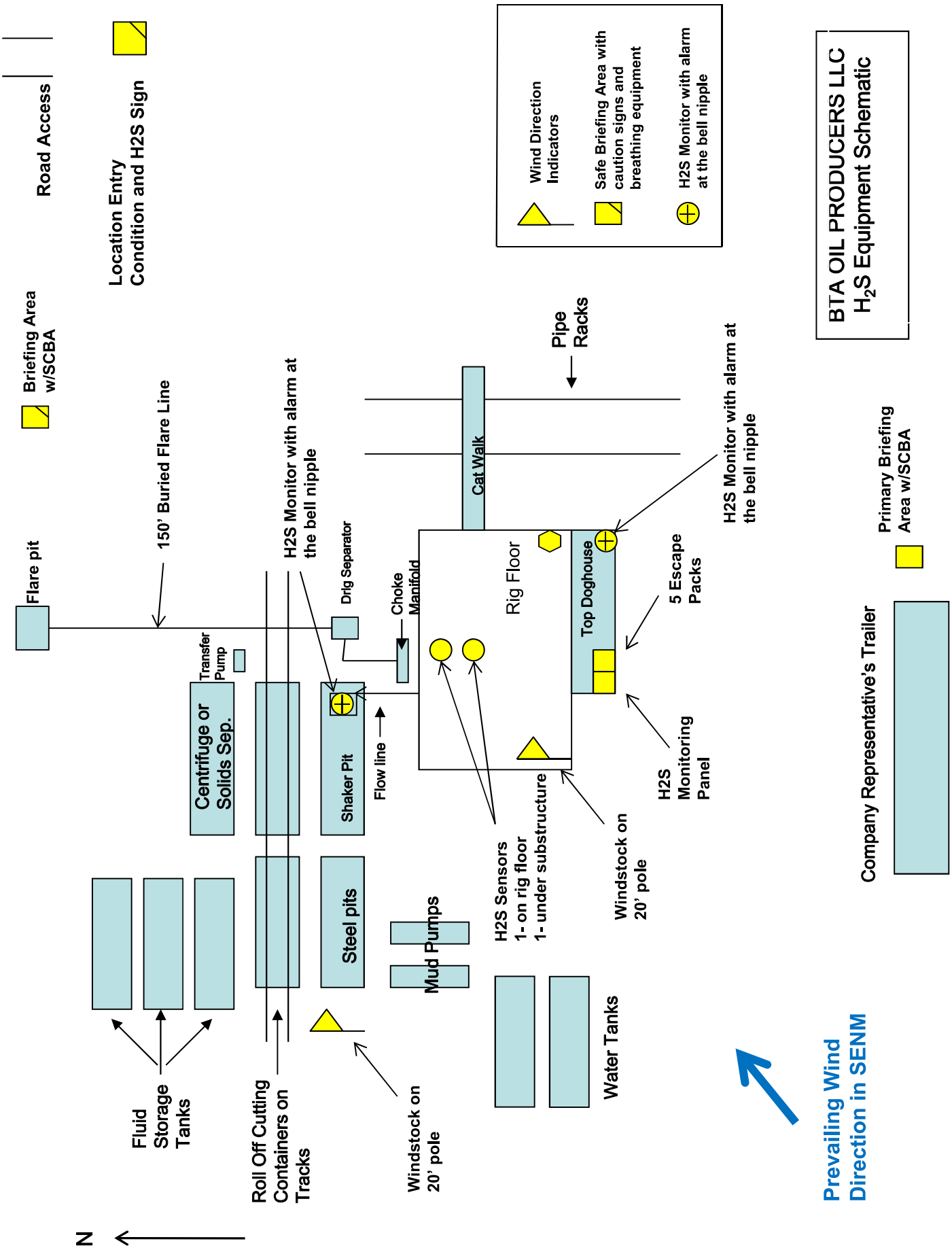
•7 5/8" has DV Tool @ 4650'

EMERGENCY CALL LIST

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

EMERGENCY RESPONSE NUMBERS

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


BTA OIL PRODUCERS LLC
H_2S Equipment Schematic
Road Access
Location Entry
Condition and H2S Sign
Briefing Area
w/SCBA
Wind Direction
Indicators
Safe Briefing Area with
caution signs and
breathing equipment
H2S Monitor with alarm
at the bell nipple
Pipe
Racks
Cat Walk
H2S Monitor with alarm at
the bell nipple
Flare pit
150' Buried Flare Line
H2S Monitor with alarm at
the bell nipple
Drlg Separator
Choke
Manifold
Rig Floor
Top Doghouse
5 Escape
Packs
Primary Briefing
Area w/SCBA
Transfer
Pump
Centrifuge or
Solids Sep.
Shaker Pit
Flow line
H2S
Monitoring
Panel
Company Representative's Trailer
H2S Sensors
1- on rig floor
1- under substructure
Windstock on
20' pole
Steel pits
Mud Pumps
Water Tanks
Fluid
Storage
Tanks
Roll Off Cutting
Containers on
Tracks
Windstock on
20' pole
N
Prevailing Wind
Direction in SENM

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 (H_2S).
b. The proper use and maintenance of personal protective equipment and life support systems.
c. The proper use of H_2S detectors, alarms, warning systems, briefing areas, evacuation procedures, and prevailing winds.
d. The proper techniques for first aid and rescue procedures.

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

a. The effects of H2S on metal components. If high tensile tubulars are to be used, personnel will be trained in their special maintenance requirements.
b. Corrective action and shut-in procedures when drilling or reworking a well and blowout prevention and well control procedures.
c. The contents and requirements of the H_2S 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. H_2S SAFETY EQUIPMENT AND SYSTEMS

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

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

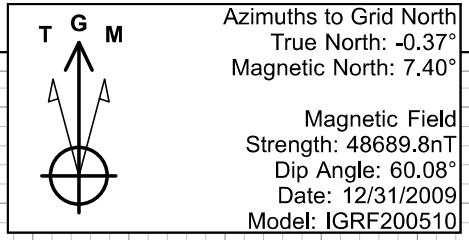
YOU ARE ENTERING AN H_2S AREA
AUTHORIZED PERSONNEL ONLY

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: -0.37°
Magnetic North: 7.40°

Magnetic Field
Strength: 48689.8nT
Dip Angle: 60.08°
Date: 12/31/2009
Model: IGRF200510

WELL DETAILS: Mesa #58H

+N/-S	+E/-W	Northing	Ground Level Easting	3253.0 Latittude	Longitude
0.0	0.0	387782.80	755320.50	32° 3' 51.164 N	103° 38' 33.232 W

SITE DETAILS: Mesa Sec 11, T26S, R32E

Site Centre Northing: 387721.83
Easting: 752135.43

Positional Uncertainity: 0.0
Convergence: 0.36
Local North: Grid

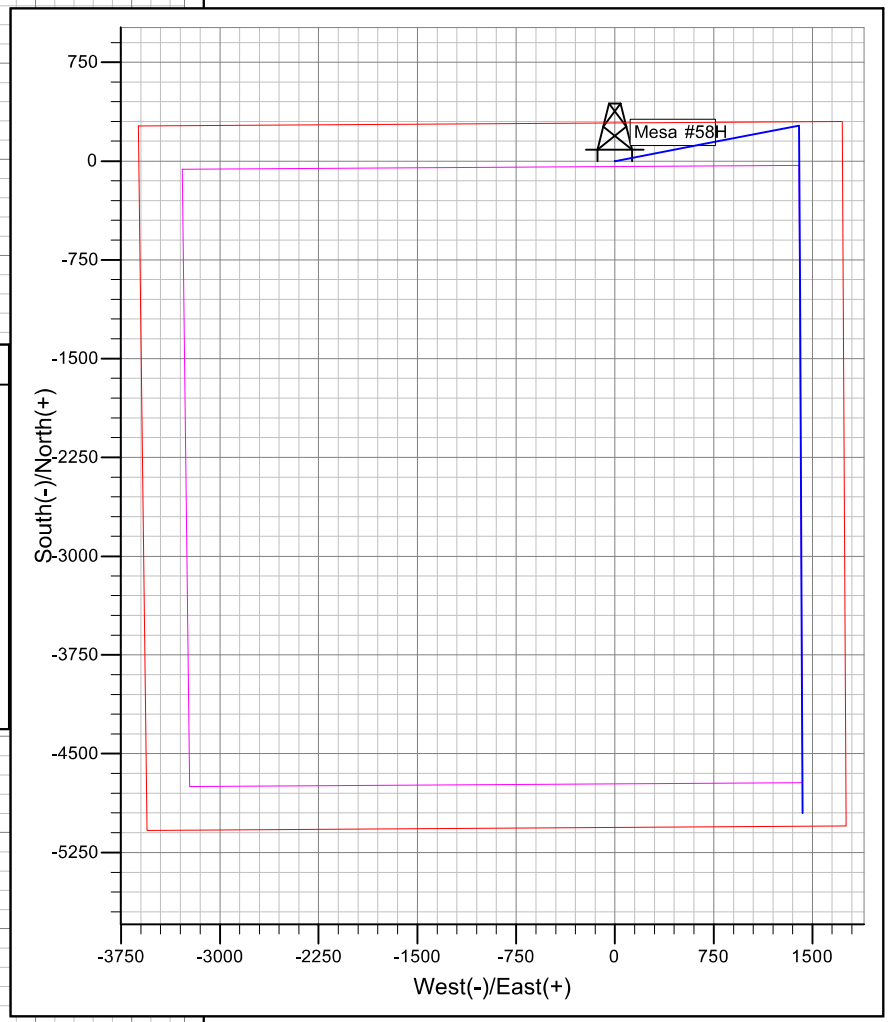
SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DIeg
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00
2	1200.0	0.00	0.00	1200.0	0.0	0.0	0.00
3	1700.0	10.00	79.08	1697.5	8.2	42.7	2.00
4	9409.6	10.00	79.08	9289.9	261.8	1357.3	0.00
5	9909.6	0.00	0.00	9787.4	270.0	1400.0	2.00
6	11657.7	0.00	0.00	11535.5	270.0	1400.0	0.00
7	11732.7	0.00	0.00	11610.5	270.0	1400.0	0.00
8	12482.7	90.00	179.71	12088.0	-207.5	1402.4	12.00
9	17225.9	90.00	179.71	12088.0	-4950.6	1426.3	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



BTA Oil Producers, LLC

Lea County, NM (NAD 83)
Mesa Sec 11, T26S, R32E
Mesa #58H

Wellbore #1

Plan: Design #1

Standard Planning Report - Geographic

11 June, 2020

Microsoft

Planning Report - Geographic

Database:	Old	**Local Co-ordinate Reference:**	Well Mesa #58H
Company:	BTA Oil Producers, LLC	**TVD Reference:**	GL @ 3253.0usft
Project:	Lea County, NM (NAD 83)	**MD Reference:**	GL @ 3253.0usft
Site:	Mesa Sec 11, T26S, R32E	**North Reference:**	Grid
Well:	Mesa #58H	**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	**Latitude:**	32° 3' 50.761 N
From:	Map	**Easting:**	752,135.43 usft	**Longitude:**	103° 39' 10.249 W
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.36 °

Well	Mesa #58H					
Well Position	**+N/-S**	0.0 usft	**Northing:**	387,782.80 usft	**Latitude:**	32° 3' 51.164 N
	+E/-W	0.0 usft	**Easting:**	755,320.50 usft	**Longitude:**	103° 38' 33.232 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**		**Ground Level:**	3,253.0 usft

Wellbore	Wellbore #1				
Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	IGRF200510	12/31/2009	7.77	60.08	48,689.77170751

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	163.93

Plan Survey Tool Program **Date** 6/11/2020

	Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	17,225.9	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	
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,700.0	10.00	79.08	1,697.5	8.2	42.7	2.00	2.00	0.00	79.08	
9,409.6	10.00	79.08	9,289.9	261.8	1,357.3	0.00	0.00	0.00	0.00	
9,909.6	0.00	0.00	9,787.4	270.0	1,400.0	2.00	-2.00	0.00	180.00	
11,657.7	0.00	0.00	11,535.5	270.0	1,400.0	0.00	0.00	0.00	0.00	
11,732.7	0.00	0.00	11,610.5	270.0	1,400.0	0.00	0.00	0.00	0.00	
12,482.7	90.00	179.71	12,088.0	-207.5	1,402.4	12.00	12.00	0.00	179.71	
17,225.9	90.00	179.71	12,088.0	-4,950.6	1,426.3	0.00	0.00	0.00	0.00	Mesa #58H BHL

Microsoft

Planning Report - Geographic

Database:	Old	**Local Co-ordinate Reference:**	Well Mesa #58H
Company:	BTA Oil Producers, LLC	**TVD Reference:**	GL @ 3253.0usft
Project:	Lea County, NM (NAD 83)	**MD Reference:**	GL @ 3253.0usft
Site:	Mesa Sec 11, T26S, R32E	**North Reference:**	Grid
Well:	Mesa #58H	**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	387,782.80	755,320.50	32° 3' 51.164 N	103° 38' 33.232 W
100.0	0.00	0.00	100.0	0.0	0.0	387,782.80	755,320.50	32° 3' 51.164 N	103° 38' 33.232 W
200.0	0.00	0.00	200.0	0.0	0.0	387,782.80	755,320.50	32° 3' 51.164 N	103° 38' 33.232 W
300.0	0.00	0.00	300.0	0.0	0.0	387,782.80	755,320.50	32° 3' 51.164 N	103° 38' 33.232 W
400.0	0.00	0.00	400.0	0.0	0.0	387,782.80	755,320.50	32° 3' 51.164 N	103° 38' 33.232 W
500.0	0.00	0.00	500.0	0.0	0.0	387,782.80	755,320.50	32° 3' 51.164 N	103° 38' 33.232 W
600.0	0.00	0.00	600.0	0.0	0.0	387,782.80	755,320.50	32° 3' 51.164 N	103° 38' 33.232 W
700.0	0.00	0.00	700.0	0.0	0.0	387,782.80	755,320.50	32° 3' 51.164 N	103° 38' 33.232 W
800.0	0.00	0.00	800.0	0.0	0.0	387,782.80	755,320.50	32° 3' 51.164 N	103° 38' 33.232 W
900.0	0.00	0.00	900.0	0.0	0.0	387,782.80	755,320.50	32° 3' 51.164 N	103° 38' 33.232 W
1,000.0	0.00	0.00	1,000.0	0.0	0.0	387,782.80	755,320.50	32° 3' 51.164 N	103° 38' 33.232 W
1,100.0	0.00	0.00	1,100.0	0.0	0.0	387,782.80	755,320.50	32° 3' 51.164 N	103° 38' 33.232 W
1,200.0	0.00	0.00	1,200.0	0.0	0.0	387,782.80	755,320.50	32° 3' 51.164 N	103° 38' 33.232 W
1,300.0	2.00	79.08	1,300.0	0.3	1.7	387,783.13	755,322.21	32° 3' 51.167 N	103° 38' 33.212 W
1,400.0	4.00	79.08	1,399.8	1.3	6.9	387,784.12	755,327.35	32° 3' 51.177 N	103° 38' 33.153 W
1,500.0	6.00	79.08	1,499.5	3.0	15.4	387,785.77	755,335.91	32° 3' 51.192 N	103° 38' 33.053 W
1,600.0	8.00	79.08	1,598.7	5.3	27.4	387,788.08	755,347.87	32° 3' 51.215 N	103° 38' 32.914 W
1,700.0	10.00	79.08	1,697.5	8.2	42.7	387,791.04	755,363.23	32° 3' 51.243 N	103° 38' 32.735 W
1,800.0	10.00	79.08	1,795.9	11.5	59.8	387,794.33	755,380.28	32° 3' 51.274 N	103° 38' 32.537 W
1,900.0	10.00	79.08	1,894.4	14.8	76.8	387,797.62	755,397.33	32° 3' 51.306 N	103° 38' 32.338 W
2,000.0	10.00	79.08	1,992.9	18.1	93.9	387,800.90	755,414.38	32° 3' 51.337 N	103° 38' 32.140 W
2,100.0	10.00	79.08	2,091.4	21.4	110.9	387,804.19	755,431.43	32° 3' 51.369 N	103° 38' 31.942 W
2,200.0	10.00	79.08	2,189.9	24.7	128.0	387,807.48	755,448.48	32° 3' 51.400 N	103° 38' 31.743 W
2,300.0	10.00	79.08	2,288.4	28.0	145.0	387,810.77	755,465.53	32° 3' 51.432 N	103° 38' 31.545 W
2,400.0	10.00	79.08	2,386.8	31.3	162.1	387,814.06	755,482.58	32° 3' 51.463 N	103° 38' 31.346 W
2,500.0	10.00	79.08	2,485.3	34.5	179.1	387,817.35	755,499.63	32° 3' 51.495 N	103° 38' 31.148 W
2,600.0	10.00	79.08	2,583.8	37.8	196.2	387,820.63	755,516.68	32° 3' 51.526 N	103° 38' 30.950 W
2,700.0	10.00	79.08	2,682.3	41.1	213.2	387,823.92	755,533.73	32° 3' 51.557 N	103° 38' 30.751 W
2,800.0	10.00	79.08	2,780.8	44.4	230.3	387,827.21	755,550.78	32° 3' 51.589 N	103° 38' 30.553 W
2,900.0	10.00	79.08	2,879.2	47.7	247.3	387,830.50	755,567.83	32° 3' 51.620 N	103° 38' 30.355 W
3,000.0	10.00	79.08	2,977.7	51.0	264.4	387,833.79	755,584.88	32° 3' 51.652 N	103° 38' 30.156 W
3,100.0	10.00	79.08	3,076.2	54.3	281.4	387,837.08	755,601.93	32° 3' 51.683 N	103° 38' 29.958 W
3,200.0	10.00	79.08	3,174.7	57.6	298.5	387,840.36	755,618.98	32° 3' 51.715 N	103° 38' 29.759 W
3,300.0	10.00	79.08	3,273.2	60.9	315.5	387,843.65	755,636.03	32° 3' 51.746 N	103° 38' 29.561 W
3,400.0	10.00	79.08	3,371.6	64.1	332.6	387,846.94	755,653.08	32° 3' 51.778 N	103° 38' 29.363 W
3,500.0	10.00	79.08	3,470.1	67.4	349.6	387,850.23	755,670.13	32° 3' 51.809 N	103° 38' 29.164 W
3,600.0	10.00	79.08	3,568.6	70.7	366.7	387,853.52	755,687.18	32° 3' 51.841 N	103° 38' 28.966 W
3,700.0	10.00	79.08	3,667.1	74.0	383.7	387,856.80	755,704.23	32° 3' 51.872 N	103° 38' 28.768 W
3,800.0	10.00	79.08	3,765.6	77.3	400.8	387,860.09	755,721.28	32° 3' 51.903 N	103° 38' 28.569 W
3,900.0	10.00	79.08	3,864.0	80.6	417.8	387,863.38	755,738.33	32° 3' 51.935 N	103° 38' 28.371 W
4,000.0	10.00	79.08	3,962.5	83.9	434.9	387,866.67	755,755.38	32° 3' 51.966 N	103° 38' 28.172 W
4,100.0	10.00	79.08	4,061.0	87.2	452.0	387,869.96	755,772.43	32° 3' 51.998 N	103° 38' 27.974 W
4,200.0	10.00	79.08	4,159.5	90.5	469.0	387,873.25	755,789.48	32° 3' 52.029 N	103° 38' 27.776 W
4,300.0	10.00	79.08	4,258.0	93.7	486.1	387,876.53	755,806.53	32° 3' 52.061 N	103° 38' 27.577 W
4,400.0	10.00	79.08	4,356.4	97.0	503.1	387,879.82	755,823.58	32° 3' 52.092 N	103° 38' 27.379 W
4,500.0	10.00	79.08	4,454.9	100.3	520.2	387,883.11	755,840.63	32° 3' 52.124 N	103° 38' 27.181 W
4,600.0	10.00	79.08	4,553.4	103.6	537.2	387,886.40	755,857.68	32° 3' 52.155 N	103° 38' 26.982 W
4,700.0	10.00	79.08	4,651.9	106.9	554.3	387,889.69	755,874.73	32° 3' 52.187 N	103° 38' 26.784 W
4,800.0	10.00	79.08	4,750.4	110.2	571.3	387,892.97	755,891.78	32° 3' 52.218 N	103° 38' 26.585 W
4,900.0	10.00	79.08	4,848.9	113.5	588.4	387,896.26	755,908.83	32° 3' 52.249 N	103° 38' 26.387 W
5,000.0	10.00	79.08	4,947.3	116.8	605.4	387,899.55	755,925.88	32° 3' 52.281 N	103° 38' 26.189 W
5,100.0	10.00	79.08	5,045.8	120.0	622.5	387,902.84	755,942.93	32° 3' 52.312 N	103° 38' 25.990 W
5,200.0	10.00	79.08	5,144.3	123.3	639.5	387,906.13	755,959.98	32° 3' 52.344 N	103° 38' 25.792 W
5,300.0	10.00	79.08	5,242.8	126.6	656.6	387,909.42	755,977.03	32° 3' 52.375 N	103° 38' 25.594 W
5,400.0	10.00	79.08	5,341.3	129.9	673.6	387,912.70	755,994.08	32° 3' 52.407 N	103° 38' 25.395 W

Microsoft

Planning Report - Geographic

Database:	Old	**Local Co-ordinate Reference:**	Well Mesa #58H
Company:	BTA Oil Producers, LLC	**TVD Reference:**	GL @ 3253.0usft
Project:	Lea County, NM (NAD 83)	**MD Reference:**	GL @ 3253.0usft
Site:	Mesa Sec 11, T26S, R32E	**North Reference:**	Grid
Well:	Mesa #58H	**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	10.00	79.08	5,439.7	133.2	690.7	387,915.99	756,011.13	32° 3' 52.438 N	103° 38' 25.197 W
5,600.0	10.00	79.08	5,538.2	136.5	707.7	387,919.28	756,028.18	32° 3' 52.470 N	103° 38' 24.998 W
5,700.0	10.00	79.08	5,636.7	139.8	724.8	387,922.57	756,045.23	32° 3' 52.501 N	103° 38' 24.800 W
5,800.0	10.00	79.08	5,735.2	143.1	741.8	387,925.86	756,062.28	32° 3' 52.533 N	103° 38' 24.602 W
5,900.0	10.00	79.08	5,833.7	146.4	758.9	387,929.14	756,079.33	32° 3' 52.564 N	103° 38' 24.403 W
6,000.0	10.00	79.08	5,932.1	149.6	775.9	387,932.43	756,096.38	32° 3' 52.595 N	103° 38' 24.205 W
6,100.0	10.00	79.08	6,030.6	152.9	793.0	387,935.72	756,113.43	32° 3' 52.627 N	103° 38' 24.007 W
6,200.0	10.00	79.08	6,129.1	156.2	810.0	387,939.01	756,130.48	32° 3' 52.658 N	103° 38' 23.808 W
6,300.0	10.00	79.08	6,227.6	159.5	827.1	387,942.30	756,147.53	32° 3' 52.690 N	103° 38' 23.610 W
6,400.0	10.00	79.08	6,326.1	162.8	844.1	387,945.59	756,164.58	32° 3' 52.721 N	103° 38' 23.411 W
6,500.0	10.00	79.08	6,424.5	166.1	861.2	387,948.87	756,181.63	32° 3' 52.753 N	103° 38' 23.213 W
6,600.0	10.00	79.08	6,523.0	169.4	878.2	387,952.16	756,198.68	32° 3' 52.784 N	103° 38' 23.015 W
6,700.0	10.00	79.08	6,621.5	172.7	895.3	387,955.45	756,215.73	32° 3' 52.816 N	103° 38' 22.816 W
6,800.0	10.00	79.08	6,720.0	175.9	912.3	387,958.74	756,232.78	32° 3' 52.847 N	103° 38' 22.618 W
6,900.0	10.00	79.08	6,818.5	179.2	929.4	387,962.03	756,249.83	32° 3' 52.879 N	103° 38' 22.420 W
7,000.0	10.00	79.08	6,916.9	182.5	946.4	387,965.32	756,266.88	32° 3' 52.910 N	103° 38' 22.221 W
7,100.0	10.00	79.08	7,015.4	185.8	963.5	387,968.60	756,283.93	32° 3' 52.941 N	103° 38' 22.023 W
7,200.0	10.00	79.08	7,113.9	189.1	980.5	387,971.89	756,300.98	32° 3' 52.973 N	103° 38' 21.824 W
7,300.0	10.00	79.08	7,212.4	192.4	997.6	387,975.18	756,318.03	32° 3' 53.004 N	103° 38' 21.626 W
7,400.0	10.00	79.08	7,310.9	195.7	1,014.6	387,978.47	756,335.08	32° 3' 53.036 N	103° 38' 21.428 W
7,500.0	10.00	79.08	7,409.4	199.0	1,031.7	387,981.76	756,352.13	32° 3' 53.067 N	103° 38' 21.229 W
7,600.0	10.00	79.08	7,507.8	202.3	1,048.7	387,985.04	756,369.18	32° 3' 53.099 N	103° 38' 21.031 W
7,700.0	10.00	79.08	7,606.3	205.5	1,065.8	387,988.33	756,386.23	32° 3' 53.130 N	103° 38' 20.832 W
7,800.0	10.00	79.08	7,704.8	208.8	1,082.8	387,991.62	756,403.28	32° 3' 53.162 N	103° 38' 20.634 W
7,900.0	10.00	79.08	7,803.3	212.1	1,099.9	387,994.91	756,420.33	32° 3' 53.193 N	103° 38' 20.436 W
8,000.0	10.00	79.08	7,901.8	215.4	1,116.9	387,998.20	756,437.38	32° 3' 53.225 N	103° 38' 20.237 W
8,100.0	10.00	79.08	8,000.2	218.7	1,134.0	388,001.49	756,454.43	32° 3' 53.256 N	103° 38' 20.039 W
8,200.0	10.00	79.08	8,098.7	222.0	1,151.0	388,004.77	756,471.48	32° 3' 53.287 N	103° 38' 19.841 W
8,300.0	10.00	79.08	8,197.2	225.3	1,168.1	388,008.06	756,488.53	32° 3' 53.319 N	103° 38' 19.642 W
8,400.0	10.00	79.08	8,295.7	228.6	1,185.1	388,011.35	756,505.58	32° 3' 53.350 N	103° 38' 19.444 W
8,500.0	10.00	79.08	8,394.2	231.8	1,202.2	388,014.64	756,522.63	32° 3' 53.382 N	103° 38' 19.245 W
8,600.0	10.00	79.08	8,492.6	235.1	1,219.2	388,017.93	756,539.68	32° 3' 53.413 N	103° 38' 19.047 W
8,700.0	10.00	79.08	8,591.1	238.4	1,236.3	388,021.21	756,556.73	32° 3' 53.445 N	103° 38' 18.849 W
8,800.0	10.00	79.08	8,689.6	241.7	1,253.3	388,024.50	756,573.78	32° 3' 53.476 N	103° 38' 18.650 W
8,900.0	10.00	79.08	8,788.1	245.0	1,270.4	388,027.79	756,590.83	32° 3' 53.508 N	103° 38' 18.452 W
9,000.0	10.00	79.08	8,886.6	248.3	1,287.4	388,031.08	756,607.88	32° 3' 53.539 N	103° 38' 18.254 W
9,100.0	10.00	79.08	8,985.0	251.6	1,304.5	388,034.37	756,624.93	32° 3' 53.571 N	103° 38' 18.055 W
9,200.0	10.00	79.08	9,083.5	254.9	1,321.5	388,037.66	756,641.98	32° 3' 53.602 N	103° 38' 17.857 W
9,300.0	10.00	79.08	9,182.0	258.2	1,338.6	388,040.94	756,659.03	32° 3' 53.633 N	103° 38' 17.658 W
9,400.0	10.00	79.08	9,280.5	261.4	1,355.6	388,044.23	756,676.08	32° 3' 53.665 N	103° 38' 17.460 W
9,409.6	10.00	79.08	9,289.9	261.8	1,357.3	388,044.55	756,677.71	32° 3' 53.668 N	103° 38' 17.441 W
9,500.0	8.19	79.08	9,379.2	264.5	1,371.3	388,047.25	756,691.75	32° 3' 53.694 N	103° 38' 17.278 W
9,600.0	6.19	79.08	9,478.4	266.8	1,383.6	388,049.62	756,704.04	32° 3' 53.716 N	103° 38' 17.135 W
9,700.0	4.19	79.08	9,578.0	268.5	1,392.5	388,051.34	756,712.92	32° 3' 53.733 N	103° 38' 17.031 W
9,800.0	2.19	79.08	9,677.8	269.6	1,397.9	388,052.39	756,718.39	32° 3' 53.743 N	103° 38' 16.968 W
9,900.0	0.19	79.08	9,777.8	270.0	1,400.0	388,052.79	756,720.43	32° 3' 53.747 N	103° 38' 16.944 W
9,909.6	0.00	0.00	9,787.4	270.0	1,400.0	388,052.79	756,720.44	32° 3' 53.747 N	103° 38' 16.944 W
10,000.0	0.00	0.00	9,877.8	270.0	1,400.0	388,052.79	756,720.44	32° 3' 53.747 N	103° 38' 16.944 W
10,100.0	0.00	0.00	9,977.8	270.0	1,400.0	388,052.79	756,720.44	32° 3' 53.747 N	103° 38' 16.944 W
10,200.0	0.00	0.00	10,077.8	270.0	1,400.0	388,052.79	756,720.44	32° 3' 53.747 N	103° 38' 16.944 W
10,300.0	0.00	0.00	10,177.8	270.0	1,400.0	388,052.79	756,720.44	32° 3' 53.747 N	103° 38' 16.944 W
10,400.0	0.00	0.00	10,277.8	270.0	1,400.0	388,052.79	756,720.44	32° 3' 53.747 N	103° 38' 16.944 W
10,500.0	0.00	0.00	10,377.8	270.0	1,400.0	388,052.79	756,720.44	32° 3' 53.747 N	103° 38' 16.944 W
10,600.0	0.00	0.00	10,477.8	270.0	1,400.0	388,052.79	756,720.44	32° 3' 53.747 N	103° 38' 16.944 W
10,700.0	0.00	0.00	10,577.8	270.0	1,400.0	388,052.79	756,720.44	32° 3' 53.747 N	103° 38' 16.944 W

Microsoft

Planning Report - Geographic

Database:	Old	**Local Co-ordinate Reference:**	Well Mesa #58H
Company:	BTA Oil Producers, LLC	**TVD Reference:**	GL @ 3253.0usft
Project:	Lea County, NM (NAD 83)	**MD Reference:**	GL @ 3253.0usft
Site:	Mesa Sec 11, T26S, R32E	**North Reference:**	Grid
Well:	Mesa #58H	**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	10,677.8	270.0	1,400.0	388,052.79	756,720.44	32° 3' 53.747 N	103° 38' 16.944 W
10,900.0	0.00	0.00	10,777.8	270.0	1,400.0	388,052.79	756,720.44	32° 3' 53.747 N	103° 38' 16.944 W
11,000.0	0.00	0.00	10,877.8	270.0	1,400.0	388,052.79	756,720.44	32° 3' 53.747 N	103° 38' 16.944 W
11,100.0	0.00	0.00	10,977.8	270.0	1,400.0	388,052.79	756,720.44	32° 3' 53.747 N	103° 38' 16.944 W
11,200.0	0.00	0.00	11,077.8	270.0	1,400.0	388,052.79	756,720.44	32° 3' 53.747 N	103° 38' 16.944 W
11,300.0	0.00	0.00	11,177.8	270.0	1,400.0	388,052.79	756,720.44	32° 3' 53.747 N	103° 38' 16.944 W
11,400.0	0.00	0.00	11,277.8	270.0	1,400.0	388,052.79	756,720.44	32° 3' 53.747 N	103° 38' 16.944 W
11,500.0	0.00	0.00	11,377.8	270.0	1,400.0	388,052.79	756,720.44	32° 3' 53.747 N	103° 38' 16.944 W
11,600.0	0.00	0.00	11,477.8	270.0	1,400.0	388,052.79	756,720.44	32° 3' 53.747 N	103° 38' 16.944 W
11,657.7	0.00	0.00	11,535.5	270.0	1,400.0	388,052.79	756,720.44	32° 3' 53.747 N	103° 38' 16.944 W
11,700.0	0.00	0.00	11,577.8	270.0	1,400.0	388,052.79	756,720.44	32° 3' 53.747 N	103° 38' 16.944 W
11,732.7	0.00	0.00	11,610.5	270.0	1,400.0	388,052.79	756,720.44	32° 3' 53.747 N	103° 38' 16.944 W
11,800.0	8.07	179.71	11,677.6	265.3	1,400.0	388,048.06	756,720.47	32° 3' 53.700 N	103° 38' 16.944 W
11,900.0	20.07	179.71	11,774.4	241.0	1,400.1	388,023.79	756,720.59	32° 3' 53.460 N	103° 38' 16.944 W
12,000.0	32.07	179.71	11,864.1	197.1	1,400.4	387,979.92	756,720.81	32° 3' 53.026 N	103° 38' 16.945 W
12,100.0	44.07	179.71	11,942.6	135.6	1,400.7	387,918.37	756,721.12	32° 3' 52.417 N	103° 38' 16.946 W
12,200.0	56.07	179.71	12,006.7	59.0	1,401.1	387,841.83	756,721.50	32° 3' 51.659 N	103° 38' 16.947 W
12,300.0	68.07	179.71	12,053.5	-29.2	1,401.5	387,753.64	756,721.95	32° 3' 50.786 N	103° 38' 16.949 W
12,400.0	80.07	179.71	12,080.9	-125.1	1,402.0	387,657.66	756,722.43	32° 3' 49.837 N	103° 38' 16.950 W
12,482.7	90.00	179.71	12,088.0	-207.5	1,402.4	387,575.35	756,722.84	32° 3' 49.022 N	103° 38' 16.952 W
12,500.0	90.00	179.71	12,088.0	-224.7	1,402.5	387,558.08	756,722.93	32° 3' 48.851 N	103° 38' 16.952 W
12,600.0	90.00	179.71	12,088.0	-324.7	1,403.0	387,458.08	756,723.43	32° 3' 47.862 N	103° 38' 16.954 W
12,700.0	90.00	179.71	12,088.0	-424.7	1,403.5	387,358.09	756,723.94	32° 3' 46.872 N	103° 38' 16.955 W
12,800.0	90.00	179.71	12,088.0	-524.7	1,404.0	387,258.09	756,724.44	32° 3' 45.883 N	103° 38' 16.957 W
12,900.0	90.00	179.71	12,088.0	-624.7	1,404.5	387,158.10	756,724.94	32° 3' 44.893 N	103° 38' 16.959 W
13,000.0	90.00	179.71	12,088.0	-724.7	1,405.0	387,058.10	756,725.45	32° 3' 43.903 N	103° 38' 16.960 W
13,100.0	90.00	179.71	12,088.0	-824.7	1,405.5	386,958.11	756,725.95	32° 3' 42.914 N	103° 38' 16.962 W
13,200.0	90.00	179.71	12,088.0	-924.7	1,406.0	386,858.11	756,726.45	32° 3' 41.924 N	103° 38' 16.963 W
13,300.0	90.00	179.71	12,088.0	-1,024.7	1,406.5	386,758.12	756,726.95	32° 3' 40.935 N	103° 38' 16.965 W
13,400.0	90.00	179.71	12,088.0	-1,124.7	1,407.0	386,658.12	756,727.46	32° 3' 39.945 N	103° 38' 16.967 W
13,500.0	90.00	179.71	12,088.0	-1,224.7	1,407.5	386,558.13	756,727.96	32° 3' 38.956 N	103° 38' 16.968 W
13,600.0	90.00	179.71	12,088.0	-1,324.7	1,408.0	386,458.14	756,728.46	32° 3' 37.966 N	103° 38' 16.970 W
13,700.0	90.00	179.71	12,088.0	-1,424.7	1,408.5	386,358.14	756,728.97	32° 3' 36.977 N	103° 38' 16.972 W
13,800.0	90.00	179.71	12,088.0	-1,524.7	1,409.0	386,258.15	756,729.47	32° 3' 35.987 N	103° 38' 16.973 W
13,900.0	90.00	179.71	12,088.0	-1,624.7	1,409.5	386,158.15	756,729.97	32° 3' 34.998 N	103° 38' 16.975 W
14,000.0	90.00	179.71	12,088.0	-1,724.7	1,410.0	386,058.16	756,730.47	32° 3' 34.008 N	103° 38' 16.977 W
14,100.0	90.00	179.71	12,088.0	-1,824.7	1,410.5	385,958.16	756,730.98	32° 3' 33.019 N	103° 38' 16.978 W
14,200.0	90.00	179.71	12,088.0	-1,924.7	1,411.0	385,858.17	756,731.48	32° 3' 32.029 N	103° 38' 16.980 W
14,300.0	90.00	179.71	12,088.0	-2,024.7	1,411.5	385,758.17	756,731.98	32° 3' 31.039 N	103° 38' 16.982 W
14,400.0	90.00	179.71	12,088.0	-2,124.7	1,412.0	385,658.18	756,732.49	32° 3' 30.050 N	103° 38' 16.983 W
14,500.0	90.00	179.71	12,088.0	-2,224.7	1,412.5	385,558.18	756,732.99	32° 3' 29.060 N	103° 38' 16.985 W
14,600.0	90.00	179.71	12,088.0	-2,324.7	1,413.0	385,458.19	756,733.49	32° 3' 28.071 N	103° 38' 16.986 W
14,700.0	90.00	179.71	12,088.0	-2,424.7	1,413.6	385,358.19	756,733.99	32° 3' 27.081 N	103° 38' 16.988 W
14,800.0	90.00	179.71	12,088.0	-2,524.7	1,414.1	385,258.20	756,734.50	32° 3' 26.092 N	103° 38' 16.990 W
14,900.0	90.00	179.71	12,088.0	-2,624.7	1,414.6	385,158.20	756,735.00	32° 3' 25.102 N	103° 38' 16.991 W
15,000.0	90.00	179.71	12,088.0	-2,724.7	1,415.1	385,058.21	756,735.50	32° 3' 24.113 N	103° 38' 16.993 W
15,100.0	90.00	179.71	12,088.0	-2,824.7	1,415.6	384,958.21	756,736.01	32° 3' 23.123 N	103° 38' 16.995 W
15,200.0	90.00	179.71	12,088.0	-2,924.7	1,416.1	384,858.22	756,736.51	32° 3' 22.134 N	103° 38' 16.996 W
15,300.0	90.00	179.71	12,088.0	-3,024.7	1,416.6	384,758.22	756,737.01	32° 3' 21.144 N	103° 38' 16.998 W
15,400.0	90.00	179.71	12,088.0	-3,124.7	1,417.1	384,658.23	756,737.51	32° 3' 20.154 N	103° 38' 17.000 W
15,500.0	90.00	179.71	12,088.0	-3,224.7	1,417.6	384,558.23	756,738.02	32° 3' 19.165 N	103° 38' 17.001 W
15,600.0	90.00	179.71	12,088.0	-3,324.7	1,418.1	384,458.24	756,738.52	32° 3' 18.175 N	103° 38' 17.003 W
15,700.0	90.00	179.71	12,088.0	-3,424.7	1,418.6	384,358.24	756,739.02	32° 3' 17.186 N	103° 38' 17.005 W
15,800.0	90.00	179.71	12,088.0	-3,524.7	1,419.1	384,258.25	756,739.53	32° 3' 16.196 N	103° 38' 17.006 W
15,900.0	90.00	179.71	12,088.0	-3,624.7	1,419.6	384,158.25	756,740.03	32° 3' 15.207 N	103° 38' 17.008 W

Microsoft

Planning Report - Geographic

Database:	Old	**Local Co-ordinate Reference:**	Well Mesa #58H
Company:	BTA Oil Producers, LLC	**TVD Reference:**	GL @ 3253.0usft
Project:	Lea County, NM (NAD 83)	**MD Reference:**	GL @ 3253.0usft
Site:	Mesa Sec 11, T26S, R32E	**North Reference:**	Grid
Well:	Mesa #58H	**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	179.71	12,088.0	-3,724.7	1,420.1	384,058.26	756,740.53	32° 3' 14.217 N	103° 38' 17.009 W
16,100.0	90.00	179.71	12,088.0	-3,824.7	1,420.6	383,958.26	756,741.03	32° 3' 13.228 N	103° 38' 17.011 W
16,200.0	90.00	179.71	12,088.0	-3,924.7	1,421.1	383,858.27	756,741.54	32° 3' 12.238 N	103° 38' 17.013 W
16,300.0	90.00	179.71	12,088.0	-4,024.7	1,421.6	383,758.27	756,742.04	32° 3' 11.249 N	103° 38' 17.014 W
16,400.0	90.00	179.71	12,088.0	-4,124.7	1,422.1	383,658.28	756,742.54	32° 3' 10.259 N	103° 38' 17.016 W
16,500.0	90.00	179.71	12,088.0	-4,224.7	1,422.6	383,558.28	756,743.05	32° 3' 9.270 N	103° 38' 17.018 W
16,600.0	90.00	179.71	12,088.0	-4,324.7	1,423.1	383,458.29	756,743.55	32° 3' 8.280 N	103° 38' 17.019 W
16,700.0	90.00	179.71	12,088.0	-4,424.7	1,423.6	383,358.29	756,744.05	32° 3' 7.290 N	103° 38' 17.021 W
16,800.0	90.00	179.71	12,088.0	-4,524.7	1,424.1	383,258.30	756,744.56	32° 3' 6.301 N	103° 38' 17.023 W
16,900.0	90.00	179.71	12,088.0	-4,624.7	1,424.6	383,158.30	756,745.06	32° 3' 5.311 N	103° 38' 17.024 W
17,000.0	90.00	179.71	12,088.0	-4,724.7	1,425.1	383,058.31	756,745.56	32° 3' 4.322 N	103° 38' 17.026 W
17,100.0	90.00	179.71	12,088.0	-4,824.7	1,425.6	382,958.31	756,746.06	32° 3' 3.332 N	103° 38' 17.027 W
17,200.0	90.00	179.71	12,088.0	-4,924.7	1,426.1	382,858.32	756,746.57	32° 3' 2.343 N	103° 38' 17.029 W
17,225.9	90.00	179.71	12,088.0	-4,950.6	1,426.3	382,832.40	756,746.70	32° 3' 2.086 N	103° 38' 17.030 W

Design Targets

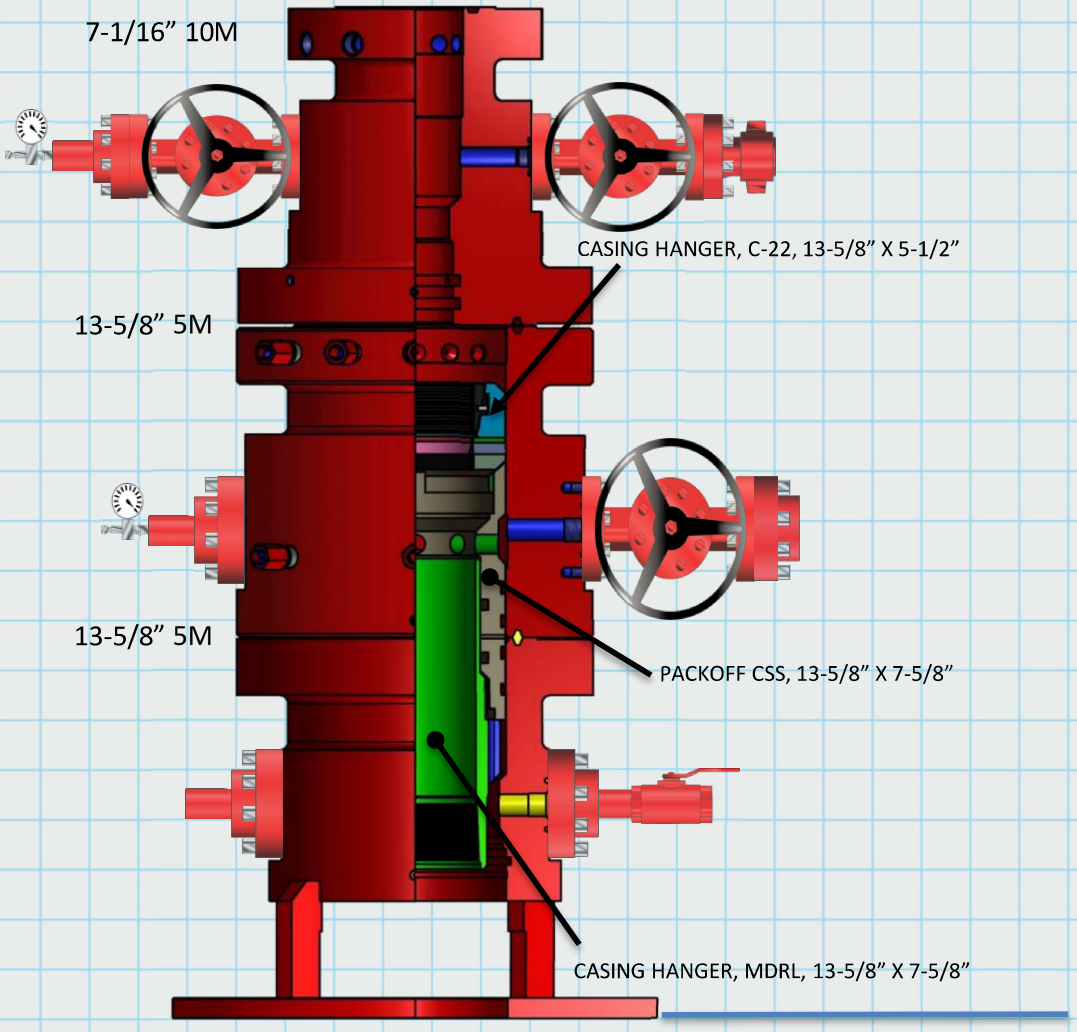
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Mesa #58H BHL - plan hits target center - Point	0.00	0.00	12,088.0	-4,950.6	1,426.3	382,832.40	756,746.70	32° 3' 2.086 N	103° 38' 17.030 W

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”

McClinton Energy GROUP

QUALITY SERVICE
QUALITY PRODUCTS
QUALITY PERSONNEL

AFMSS

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

PWD Data Report
04/15/2021

APD ID: 10400058051 **Submission Date:** 06/19/2020

Operator Name: BTA OIL PRODUCERS LLC

Well Name: MESA 8105 11 FEDERAL **Well Number:** 58H

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:

Decribe precipitated solids disposal:

Precipitated solids disposal permit:

Lined pit precipitated solids disposal schedule:

Lined pit precipitated solids disposal schedule attachment:

Lined pit reclamation description:

Lined pit reclamation attachment:

Leak detection system description:

Leak detection system attachment:

Operator Name: BTA OIL PRODUCERS LLC

Well Name: MESA 8105 11 FEDERAL **Well Number:** 58H

Lined pit Monitor description:

Lined pit Monitor attachment:

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

Is the reclamation bond a rider under the BLM bond?

Lined pit bond number:

Lined pit bond amount:

Additional bond information attachment:

Section 3 - Unlined Pits

Would you like to utilize Unlined Pit PWD options? N

Produced Water Disposal (PWD) Location:

PWD disturbance (acres): **PWD surface owner:**

Unlined pit PWD on or off channel:

Unlined pit PWD discharge volume (bbl/day):

Unlined pit specifications:

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal permit:

Unlined pit precipitated solids disposal schedule:

Unlined pit precipitated solids disposal schedule attachment:

Unlined pit reclamation description:

Unlined pit reclamation attachment:

Unlined pit Monitor description:

Unlined pit Monitor attachment:

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

Beneficial use user confirmation:

Estimated depth of the shallowest aquifer (feet):

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

TDS lab results:

Geologic and hydrologic evidence:

State authorization:

Unlined Produced Water Pit Estimated percolation:

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

Operator Name: BTA OIL PRODUCERS LLC

Well Name: MESA 8105 11 FEDERAL **Well Number:** 58H

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:** 58H

Other PWD type description:

Other PWD type attachment:

Have other regulatory requirements been met?

Other regulatory requirements attachment:

AFMSS

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

Bond Info Data Report
04/15/2021

APD ID: 10400058051
Submission Date: 06/19/2020

Operator Name: BTA OIL PRODUCERS LLC

Well Name: MESA 8105 11 FEDERAL
Well Number: 58H

Well Type: OIL WELL
Well Work Type: Drill

Highlighted data reflects the most recent changes

Show Final Text

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
Phone: (575) 393-6161 Fax: (575) 393-0720
DISTRICT II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
DISTRICT III
1000 Rio Brazos 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) 476-3462

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

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

☐AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
30-025-48963	98158	WC-025 G-09 S253236A;UPR WOLFCAMP

Property Code	Property Name	Well Number
328173	MESA 8105 11 FEDERAL	58H

OGRID No.	Operator Name	Elevation
260297	BTA OIL PRODUCERS, LLC	3253'

Surface Location

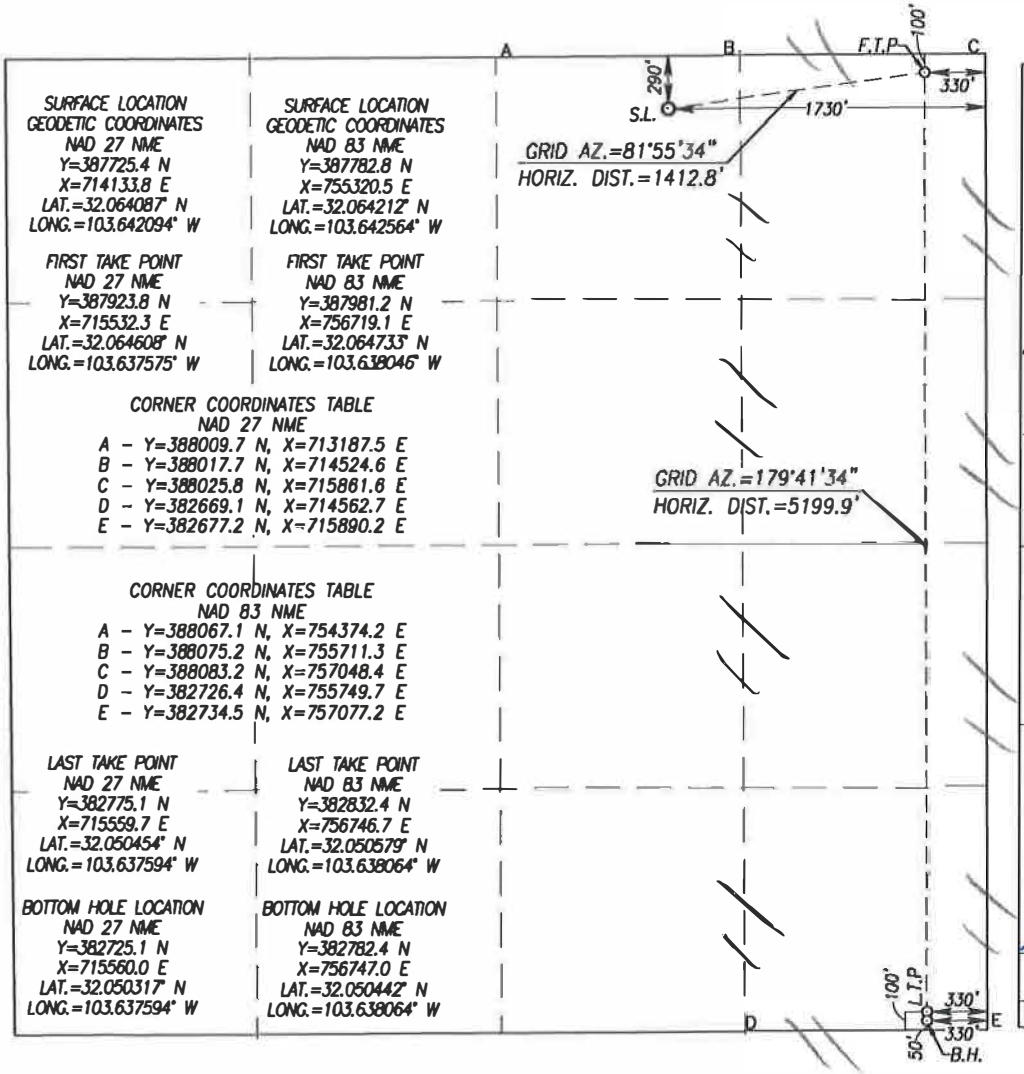
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	11	26-S	32-E		290	NORTH	1730	EAST	LEA

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
P	11	26-S	32-E		50	SOUTH	330	EAST	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.

Signature 5/5/2020 Date

Sammy Hajar
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.

JANUARY 10, 2020
Date of Survey

Signature & Seal of Professional Surveyor

RONALD J. EIDSON
NEW MEXICO
3239
REGISTERED PROFESSIONAL SURVEYOR

Ronald J. Eidson 02/20/2020

Certificate Number	Gary G. Eidson	12641
	Ronald J. Eidson	3239

ACK JWSC W.O.: 19.11.1268

District I
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District III
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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
☐ Amended - Reason for Amendment:

Operator & OGRID No.: 260297

This Gas Capture Plan outlines actions to be taken by the Operator to reduce well/production facility flaring/venting for new completion (new drill, recomplete 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 FEDERAL 58H	30-025-48963	SEC 11 ; 26S ; 32E	290 FNL 1730 FEL	2000	Flared	Battery Connected 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

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 25842

CONDITIONS

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID: 260297
	Action Number: 25842
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
pkautz	Notify OCD 24 hours prior to casing & cement	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