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.

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. **[328173]**

2. Name of Operator **[260297]**

9. API Well No. **30-025-48720**

3a. Address

3b. Phone No. *(include area code)*

10. Field and Pool, or Exploratory **[98158]**

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

At surface

At proposed prod. zone

11. Sec., T. R. M. or Blk. and Survey or Area

14. Distance in miles and direction from nearest town or post office*

12. County or Parish

13. State

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

16. No of acres in lease

17. Spacing Unit dedicated to this well

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.

19. Proposed Depth

20. BLM/BIA Bond No. in file

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

22. Approximate date work will start*

23. Estimated duration

24. Attachments

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

1. Well plat certified by a registered surveyor.
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

Title

Approved by *(Signature)*

Name *(Printed/Typed)*

Date

Title

Office

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

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

**GCP Rec 04/15/2021**

**SL**

APPROVED WITH CONDITIONS

KZ
**04/26/2021**

(Continued on page 2)

*(Instructions on page 2)



**Approval Date: 04/12/2021**

Confidential

# PECOS DISTRICT
# DRILLING CONDITIONS OF APPROVAL

| | |
|---|---|
| **OPERATOR'S NAME:** | **BTA Oil Producers LLC** |
| **LEASE NO.:** | **NMNM014492** |
| **WELL NAME & NO.:** | MESA 8105 11 Federal 74H |
| **SURFACE HOLE FOOTAGE:** | 490'/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



 **Approval Date: 04/12/2021**

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 **12,016** 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 -42%, 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 -5%, 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.

**OTA11042020**

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

# Application Data Report
04/14/2021

**APD ID:** 10400058330
**Submission Date:** 06/23/2020
**Operator Name:** BTA OIL PRODUCERS LLC
**Well Name:** MESA 8105 11 FEDERAL
**Well Number:** 74H
**Well Type:** OIL WELL
**Well Work Type:** Drill

Highlighted data reflects the most recent changes

Show Final Text

## Section 1 - General

**APD ID:** 10400058330
**Tie to previous NOS?**
**Submission Date:** 06/23/2020
**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:** 74H
**Well API Number:**
**Field/Pool or Exploratory?** Field and Pool
**Field Name:** WC-025
**Pool Name:** UPPER WOLFCAMP
**Is the proposed well in an area containing other mineral resources?** NONE



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**Operator Name:** BTA OIL PRODUCERS LLC

**Well Name:** MESA 8105 11 FEDERAL **Well Number:** 74H

**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:** 74H, 75H, 76H, and 77H

**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:** 491 FT **Distance to lease line:** 490 FT

**Reservoir well spacing assigned acres Measurement:** 160 Acres

**Well plat:** Signed_Mesa_8105_11_Federal_74H_C102_20200623072916.pdf

**Well work start Date:** 11/21/2021 **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 | 490 | FNL | 1730 | FEL | 26S | 32E | 11 | Aliquot NWNE | 32.063663 | -103.642564 | LEA | NEW MEXICO | NEW MEXICO | F | NMNM 014492 | 3251 | 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 | -8730 | 12090 | 11981 | 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 | 12063 | 12001 | Y |





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**Operator Name:** BTA OIL PRODUCERS LLC

**Well Name:** MESA 8105 11 FEDERAL **Well Number:** 74H

| 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 | -9208 | 17354 | 12459 | 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 | -9208 | 17634 | 12459 | Y |

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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 Department |

ContiTech Rubber Industrial Kft. | Budapesti út 10. H-6728 Szeged | H-6701 P.O.Box 152 Szeged, Hungary
Phone: +36 62 566 737 | Fax: +36 62 566 738 | e-mail: info@fluid.contitech.hu | Internet: www.contitech-rubber.hu, www.contitech.hu
The Court of Csongrád County as Registry Court | Registry Court No. Cg.06-09-002532 | EU VAT No. HU11087206
Deutsche Commerzbank Zrt., Budapest | 14220106-28633003

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

Page: 1 / 1

| | |
|---|---|
| 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] | 1062.96 | 1048.57 | -14.39 |
| Ambient Temperature[°C] | 23.24 | 23.14 | -0.10 |

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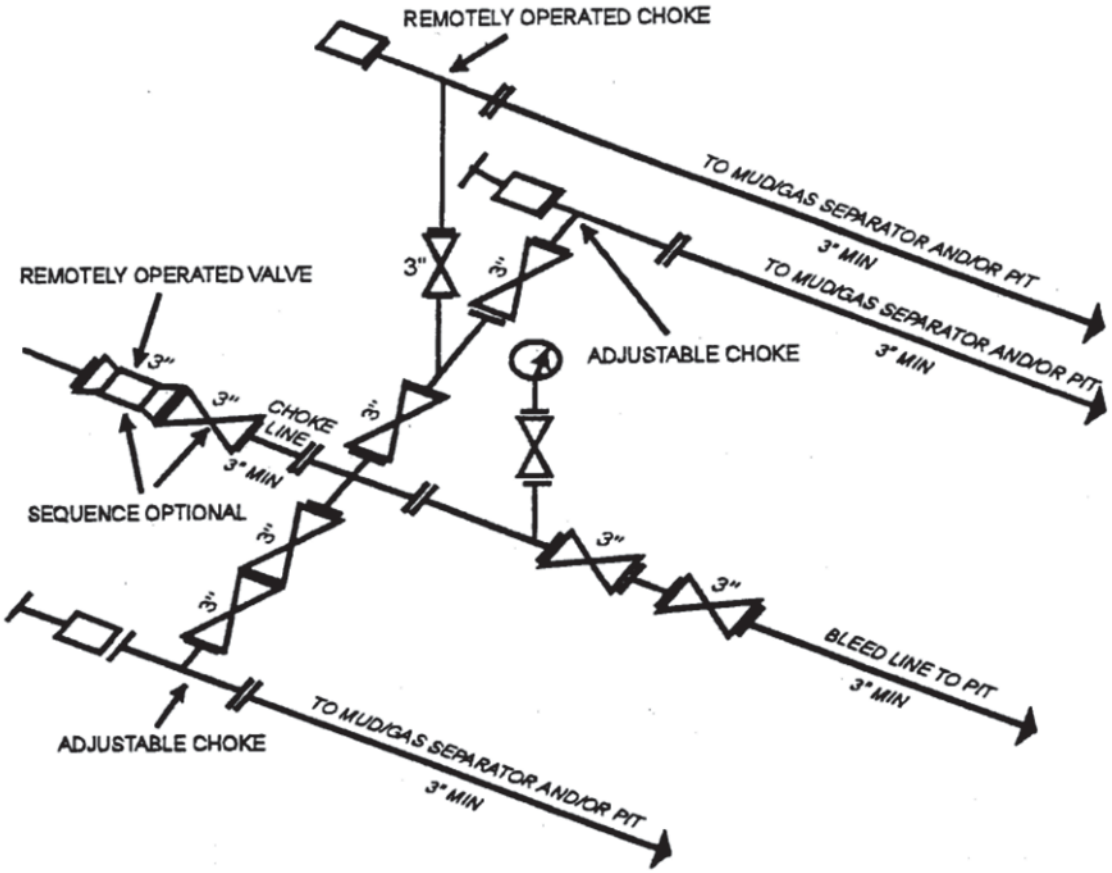
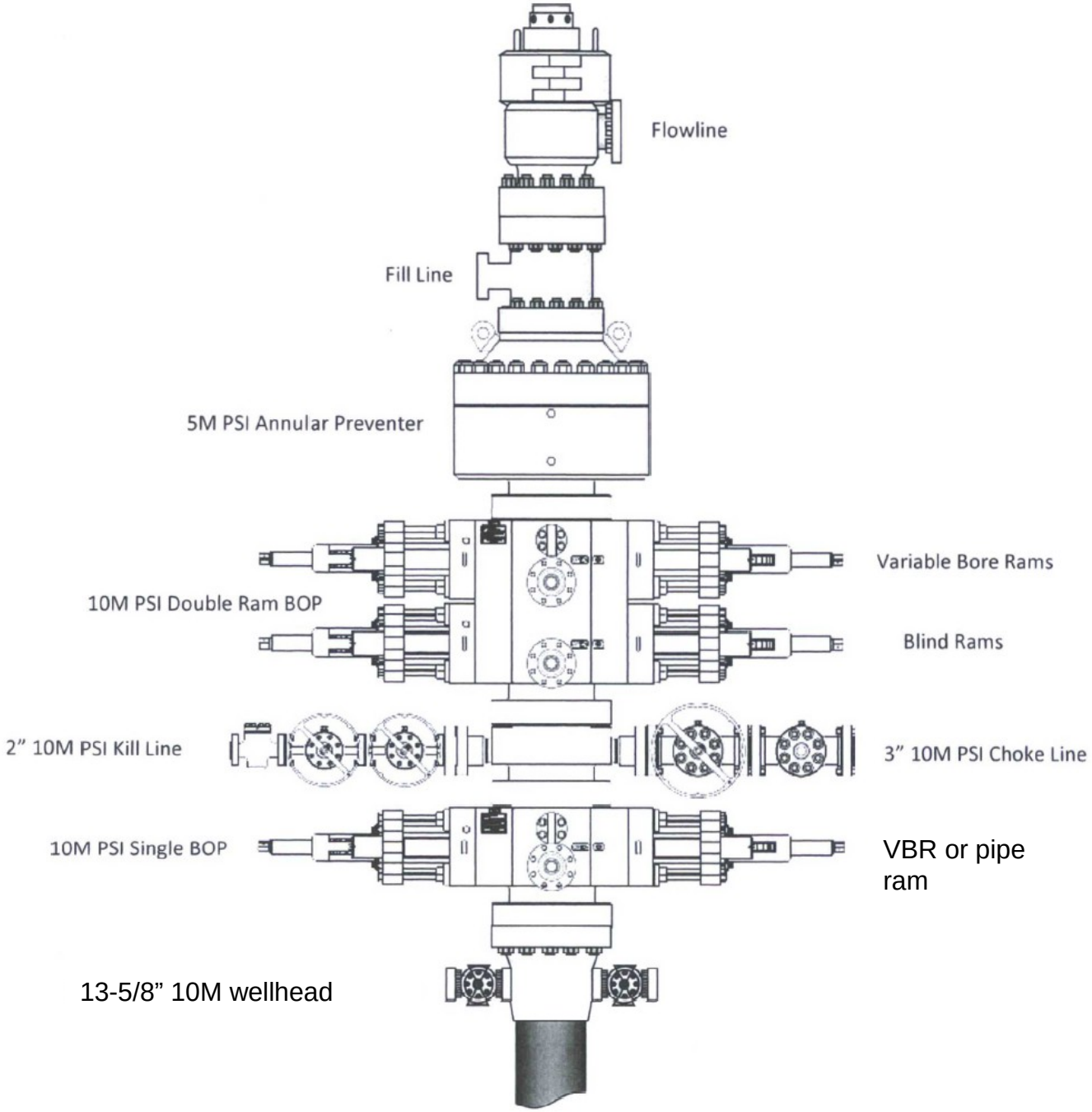



10M AND 15M CHOKE MANIFOLD EQUIPMENT - CONFIGURATION OF CHOKES MAY VARY
[53 FR 49661, Dec. 9, 1988 and 54 FR 39528, Sept. 27, 1989]

# 13-5/8" 10M PSI BOP Stack





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)

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 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 |

TABLE NO. 203

## DIMENSIONS AND STRENGTHS OF CASING

| Size O.D. In. | Grade | Wt. Per Ft. With Cplg. Lb. | Inside Dia. In. | Thread & Cplg. Drift Dia. In. | Thread & Cplg. O.D. of Cplg. In. | Extreme Line Drift Dia. In. | Extreme Line O.D. of Box In. | Col'pse Resistance PSI | Internal Yield Pressure PSI** Plain End or Ext. Line | Round Thread Short | Round Thread Long | Buttress Thd. | Body Yield Stgth. 1,000 Lbs. | Joint Strength - 1000 Lbs.** Threaded & Cplg. Joint Round Thread Short | Round Thread Long | Buttress Thd. | Ext. Line Joint |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5 | C-75* | 20.30 | 4.184 | — | — | 4.059 | 5.094 | 11,240 | 10,710 | — | — | — | — | 369† | — | — | 529‡‡ |
| | C-75* | 23.20 | 4.044 | — | — | 3.919 | 5.094‡ | 12,970 | 12,550 | — | — | — | — | 369† | — | — | 529‡‡ |
| | HCL-80+ | 15.00 | 4.408 | 4.283 | — | — | — | 9,380 | 8,290 | — | 8,290 | 8,290 | — | — | 311 | 408 | — |
| | HCL-80+ | 18.00 | 4.276 | 4.151 | — | — | — | 11,880 | 10,140 | — | 10,140 | 9,910 | 422 | — | 396 | 492 | — |
| | HCL-80+ | 23.20 | 4.044 | 3.919 | — | — | — | 15,820 | 13,380 | — | 10,810 | 9,910 | 543 | — | 540 | 518 | — |
| | HCN-80+ | 15.00 | 4.408 | 4.283 | — | — | — | 9,380 | 8,290 | — | 8,290 | 8,290 | 350 | — | 311 | 408 | — |
| | HCN-80+ | 18.00 | 4.276 | 4.151 | — | — | — | 11,880 | 10,140 | — | 10,140 | 9,910 | 422 | — | 396 | 492 | — |
| | HCN-80+ | 23.20 | 4.044 | 3.919 | — | — | — | 15,820 | 13,380 | — | 10,810 | 9,910 | 543 | — | 540 | 537 | — |
| | L-80 | 15.00 | 4.408 | 4.283 | — | — | — | 7,250 | 8,290 | — | 8,290 | 8,290 | 350 | — | 295 | 379 | — |
| | L-80 | 24.10 | 4.000 | 3.875 | — | — | — | 14,400 | 14,000 | — | 10,810 | 9,910 | 566 | — | 538 | 510 | — |
| | L-80 | 18.00 | 4.276 | 4.151 | — | — | — | 10,500 | 10,140 | — | 10,140 | 9,910 | 422 | — | 377 | 457 | — |
| | L-80 | 21.40 | 4.126 | 4.001 | — | — | — | 12,760 | 12,240 | — | 10,810 | 9,910 | 501 | — | 466 | 510 | — |
| | L-80 | 23.20 | 4.044 | 3.919 | — | — | — | 13,830 | 13,380 | — | 10,810 | 9,910 | 543 | — | 513 | 510 | — |
| | N-80 | 15.00 | 4.408 | 4.283 | 5.563 | 4.151 | 5.360 | 7,250 | 8,290 | — | 8,290 | 8,290 | 350 | — | 311 | 398 | 437 |
| | N-80 | 18.00 | 4.276 | 4.151 | 5.563 | 4.151 | 5.360 | 10,490 | 10,140 | — | 10,140 | 9,910 | 422 | — | 396 | 477 | 469 |
| | N-80 | 20.30 | 4.184 | — | — | 4.059 | 5.250 | 11,990 | 11,420 | — | — | — | — | 388† | 284†† | 363‡ | 556‡‡ |
| | N-80 | 23.20 | 4.044 | — | — | 3.919 | 5.094‡ | 13,830 | 13,380 | — | — | — | — | 388† | 284†† | 363‡ | 556‡‡ |
| | N-80 | 21.40 | 4.126 | 4.001 | — | — | — | 12,760 | 12,240 | — | 10,810 | 9,910 | 501 | — | 490 | 537 | — |
| | N-80 | 24.10 | 4.000 | 3.875 | — | — | — | 14,400 | 14,000 | — | 10,810 | 9,910 | 566 | — | 558 | 537 | — |
| | C-90 | 15.00 | 4.408 | 4.233 | — | — | — | 7,840 | 9,320 | — | 9,320 | 9,320 | 394 | — | 311 | 404 | — |
| | C-90 | 18.00 | 4.276 | 4.151 | — | — | — | 11,530 | 11,400 | — | 11,400 | 11,150 | 475 | — | 396 | 484 | — |
| | C-90 | 21.40 | 4.126 | 4.001 | — | — | — | 14,360 | 13,770 | — | 12,170 | 11,150 | 564 | — | 490 | 537 | — |
| | C-90 | 23.20 | 4.044 | 3.919 | — | — | — | 15,560 | 15,060 | — | 12,170 | 11,150 | 611 | — | 540 | 537 | — |
| | C-90 | 24.10 | 4.000 | 3.875 | — | — | — | 16,200 | 15,750 | — | 12,170 | 11,150 | 636 | — | 567 | 537 | — |
| | C-95 | 15.00 | 4.408 | 4.283 | 5.563 | 4.151 | 5.360 | 8,090 | 9,840 | — | 9,840 | 9,840 | 416 | — | 326 | 424 | 459 |
| | C-95 | 18.00 | 4.276 | 4.151 | 5.563 | 4.151 | 5.360 | 12,010 | 12,040 | — | 12,040 | 11,770 | 501 | — | 416 | 512 | 493 |
| | C-95 | 20.30 | 4.184 | — | — | 4.059 | 5.250 | 14,250 | 13,560 | — | — | — | — | — | — | — | 584‡‡ |
| | C-95 | 23.20 | 4.044 | — | — | 3.919 | 5.094‡ | 16,430 | 15,890 | — | — | — | — | — | — | — | 584‡‡ |
| | C-95 | 21.40 | 4.126 | 4.001 | — | — | — | 15,160 | 14,530 | — | 12,840 | 11,770 | 595 | — | 515 | 563 | — |
| | C-95 | 24.10 | 4.000 | 3.875 | — | — | — | 17,100 | 16,630 | — | 12,840 | 11,770 | 672 | — | 595 | 563 | — |
| | S-95+ | 15.00 | 4.408 | 4.283 | — | — | — | 9,380 | 9,840 | — | 9,840 | 9,840 | 416 | — | 342 | 441 | — |
| | S-95+ | 18.00 | 4.276 | 4.151 | — | — | — | 12,030 | 12,040 | — | 12,040 | 11,770 | 501 | — | 436 | 532 | — |
| | S-95+ | 23.20 | 4.044 | 3.919 | — | — | — | 16,430 | 15,890 | — | 12,840 | 11,770 | 645 | — | 594 | 590 | — |
| | T-95 | 15.00 | 4.408 | 4.283 | — | — | — | 8,110 | 9,840 | — | 9,840 | 9,840 | 416 | — | 326 | 424 | — |
| | T-95 | 18.00 | 4.276 | 4.151 | — | — | — | 12,030 | 12,040 | — | 12,040 | 11,770 | 501 | — | 416 | 512 | — |
| | T-95 | 21.40 | 4.126 | 4.001 | — | — | — | 15,160 | 14,530 | — | 12,840 | 11,770 | 595 | — | 515 | 563 | — |
| | T-95 | 23.20 | 4.044 | 3.919 | — | — | — | 16,430 | 15,890 | — | 12,840 | 11,770 | 645 | — | 567 | 563 | — |
| | T-95 | 24.10 | 4.000 | 3.875 | — | — | — | 17,100 | 16,630 | — | 12,840 | 11,770 | 672 | — | 595 | 563 | — |
| | P-110 | 15.00 | 4.408 | 4.283 | 5.563 | 4.151 | 5.360 | 8,830 | 11,400 | — | 11,400 | 11,400 | 481 | — | 388 | 503 | 547 |
| | P-110 | 18.00 | 4.276 | 4.151 | 5.563 | 4.151 | 5.360 | 13,450 | 13,940 | — | 13,940 | 13,620 | 580 | — | 495 | 606 | 587 |
| | P-110 | 20.30 | 4.184 | — | — | 4.059 | 5.094‡ | 16,490 | 15,710 | — | — | — | — | [illegible] | [illegible] | [illegible] | [illegible] |

TABLE

## DIMENSIONS AND

| Size O.D. In. | Grade | Wt. Per Ft. With Cplg. Lb. | Inside Dia. In. | Thread & Cplg. Drift Dia. In. | Thread & Cplg. O.D. of Cplg. In. | Extreme Line Drift Dia. In. | Extreme Line O.D. of Box In. | ** Col'pse Resis-tance PSI |
|---|---|---|---|---|---|---|---|---|
| 7⅝ | S-95 | 45.30 | 6.435 | 6.310 | — | — | — | 13,660 |
| | S-95+ | 26.40 | 6.969 | 6.844 | — | — | — | 4,850 |
| | S-95+ | 29.70 | 6.875 | 6.750 | — | — | — | 7,150 |
| | S-95+ | 33.70 | 6.765 | 6.640 | — | — | — | 8,800 |
| | S-95+ | 39.00 | 6.625 | 6.500 | — | — | — | 10,600 |
| | T-95 | 26.40 | 6.969 | 6.844 | — | — | — | 3,710 |
| | T-95 | 29.70 | 6.875 | 6.750 | — | — | — | 5,140 |
| | T-95 | 33.70 | 6.765 | 6.640 | — | — | — | 7,280 |
| | T-95 | 39.00 | 6.625 | 6.500 | — | — | — | 10,000 |
| | T-95 | 42.80 | 6.501 | 6.376 | — | — | — | 12,410 |
| | T-95 | 45.30 | 6.435 | 6.310 | — | — | — | 13,660 |
| | T-95 | 47.10 | 6.375 | 6.250 | — | — | — | 14,300 |
| | T-95 | 51.20 | 6.251 | 6.126 | — | — | — | 15,580 |
| | T-95 | 55.30 | 6.125 | 6.000 | — | — | — | 16,850 |
| | HCP-110+ | 26.40 | 6.969 | 6.844 | — | — | — | 4,850 |
| | HCP-110+ | 29.70 | 6.875 | 6.750 | — | — | — | 7,150 |
| | HCP-110+ | 33.70 | 6.765 | 6.640 | — | — | — | 8,800 |
| | P-110 | 29.70 | 6.875 | 6.750 | 6.500 | 6.75 | 8.010 | 5,340 |
| | P-110 | [illegible] | 6.765 | 6.640 | 6.500 | 6.64 | 8.010 | 7,850 |
| | P-110 | 39.00 | 6.625 | 6.500 | 6.500 | 6.5 | 8.010 | 11,060 |
| | P-110 | 42.80 | 6.501 | 6.376 | — | — | — | 13,920 |
| | P-110 | 45.30 | 6.435 | 6.310 | — | — | — | 15,430 |
| | P-110 | 47.10 | 6.375 | 6.250 | — | — | — | 16,550 |
| | HCQ-125+ | 33.70 | 6.765 | 6.640 | — | — | — | 8,800 |
| | Q-125 | 45.30 | 6.435 | 6.310 | — | — | — | 17,090 |
| | Q-125+ | 33.70 | 6.765 | 6.640 | — | — | — | 8,350 |
| | Q-125 | 39.00 | 6.625 | 6.500 | — | — | — | 12,060 |
| | Q-125 | 42.80 | 6.501 | 6.376 | — | — | — | 15,350 |
| | Q-125 | 47.10 | 6.375 | 6.250 | — | — | — | 18,700 |
| | LS-140+ | 33.70 | 6.765 | 6.640 | — | — | — | 8,690 |
| | LS-140+ | 39.00 | 6.625 | 6.500 | — | — | — | 12,930 |
| | V-150 | 33.70 | 6.765 | 6.640 | 8.500 | — | — | 8,880 |
| | V-150 | 39.00 | 6.625 | 6.500 | 8.500 | — | — | 13,450 |
| | V-150 | 45.30 | 6.435 | 6.310 | 8.500 | — | — | 19,680 |
| 7⅞ | HCL-80+ | 46.10 | 6.560 | 6.435 | — | — | — | 13,320 |
| | L-80 | 46.10 | 6.560 | 6.435 | — | — | — | 11,340 |
| | C-90 | 46.10 | 6.560 | 6.435 | — | — | — | 12,740 |
| | H2S-90 | 46.10 | 6.560 | 6.435 | — | — | — | 12,740 |
| | C-95 | 46.10 | 6.560 | 6.435 | — | — | — | 13,320 |
| | H2S-95 | 46.10 | 6.560 | 6.435 | — | — | — | 13,320 |
| | S-95+ | 46.10 | 6.560 | 6.435 | — | — | — | 13,320 |
| | T-95 | 46.10 | 6.560 | 6.435 | — | — | — | 13,320 |
| | P-110 | 46.10 | 6.560 | 6.435 | — | — | — | 14,990 |
| | Q-125 | 46.10 | 6.560 | 6.435 | — | — | — | 16,580 |
| | LS-140+ | 46.10 | 6.560 | 6.435 | — | — | — | 18,090 |
| 8⅝ | F-25* | 24.00 | 8.097 | 7.972 | 9.625 | — | — | 950 |
| | H-40 | 28.00 | 8.017 | 7.892 | 9.625 | — | — | 1,640 |
| | H-40 | 32.00 | 7.921 | 7.796 | 9.625 | — | — | 2,210 |
| | HCK-55+ | 24.00 | 8.097 | 7.972 | — | — | — | 1,780 |
| | HCK-55+ | 28.00 | 8.017 | 7.892 | — | — | — | 2,680 |
| | HCK-55+ | 32.00 | 7.921 | 7.796 | — | — | — | 4,130 |
| | HCK-55+ | 36.00 | 7.825 | 7.700 | — | — | — | 5,300 |

*Non API Standard. Shown for information only. +Lone Star Pipe Data

** Collapse, Internal Yield and Joint Yield Strengths are minimum values with no safety actor, reproduced by permission from API Bul. 5C2, Bulletin on Performance Properties of Casing and Tubing.



NO. 203

## STRENGTHS OF CASING

| Internal Yield Pressure PSI** Plain End or Ext. Line | Round Thread Short | Round Thread Long | But-tress Thd. | ** Body Yield Strh. 1,000 Lbs. | Joint Strength - 1000 Lbs.** Threaded & Cplg. Joint Round Thread Short | Round Thread Long | But-tress Thd. | Ext. Line Joint |
|---|---|---|---|---|---|---|---|---|
| 12,970 | — | 12,460 | 11,620 | 1,248 | — | 1,116 | 1,293 | — |
| 7,150 | — | 7,150 | 7,150 | 714 | — | 568 | 740 | — |
| 8,180 | — | 8,180 | 8,180 | 811 | — | 668 | 841 | — |
| 9,380 | — | 9,380 | 9,380 | 923 | — | 783 | 957 | — |
| 10,900 | — | 10,900 | 10,900 | 1,063 | — | 926 | 1,101 | — |
| 7,150 | — | 7,159 | 7,150 | 714 | — | 560 | 718 | — |
| 8,180 | — | 8,180 | 8,180 | 811 | — | 659 | 813 | — |
| 9,380 | — | 9,380 | 9,380 | 923 | — | 772 | 925 | — |
| 10,900 | — | 10,900 | 10,900 | 1,063 | — | 914 | 1,065 | — |
| 12,250 | — | 12,250 | 11,620 | 1,185 | — | 1,037 | 1,187 | — |
| 12,970 | — | 12,460 | 11,620 | 1,248 | — | 1,101 | 1,251 | — |
| 13,630 | — | 12,460 | 11,620 | 1,306 | — | 1,159 | 1,300 | — |
| 14,980 | — | — | — | 1,423 | — | — | — | — |
| 16,350 | — | — | — | 1,539 | — | — | — | — |
| 8,280 | — | 8,280 | 8,280 | 827 | — | 654 | 845 | — |
| 9,470 | — | 9,470 | 9,470 | 940 | — | 769 | 960 | — |
| 10,860 | — | 10,860 | 10,860 | 1,069 | — | 901 | 1,093 | — |
| 9,470 | — | 9,470 | 9,470 | 940 | — | 769 | 960 | 932 |
| 10,860 | — | 10,860 | 10,860 | 1,069 | — | 901 | 1,093 | 1,008 |
| 12,620 | — | 12,620 | 12,620 | 1,231 | — | 1,056 | 1,258 | 1,120 |
| 14,190 | — | 14,190 | 13,460 | 1,372 | — | 1,210 | 1,402 | — |
| 15,020 | — | 14,430 | 13,460 | 1,446 | — | 1,285 | 1,477 | — |
| 15,780 | — | 14,430 | 13,460 | 1,512 | — | 1,353 | 1,545 | — |
| 12,340 | — | 12,340 | 12,340 | 1,215 | — | 1,009 | 1,197 | — |
| 17,070 | — | 16,400 | 15,290 | 1,643 | — | 1,439 | 1,619 | — |
| 12,340 | — | 12,340 | 12,340 | 1,215 | — | 1,009 | 1,197 | — |
| 14,340 | — | 14,340 | 14,340 | 1,399 | — | 1,194 | 1,379 | — |
| 16,120 | — | 16,120 | 15,290 | 1,559 | — | 1,355 | 1,536 | — |
| 17,930 | — | 16,400 | 15,290 | 1,718 | — | 1,515 | 1,672 | — |
| 13,820 | — | 13,820 | 13,820 | 1,361 | — | 1,128 | 1,334 | — |
| 16,070 | — | 16,070 | 16,070 | 1,567 | — | 1,335 | 1,536 | — |
| — | — | 14,800 | 14,800 | 1,456 | — | 1,207 | 1,482 | — |
| — | — | 17,210 | 17,210 | 1,679 | — | 1,428 | 1,706 | — |
| — | — | 19,680 | 18,350 | 1,971 | — | 1,721 | 1,932 | — |
| 10,750 | — | 10,490 | 9,790 | 1,070 | — | 965 | 1,091 | — |
| 10,750 | — | 10,490 | 9,790 | 1,070 | — | 841 | 1,001 | — |
| 12,090 | — | 11,810 | 11,010 | 1,204 | — | 928 | 1,074 | — |
| 12,090 | — | 11,810 | 11,010 | 1,204 | — | 965 | 1,091 | — |
| 12,760 | — | 12,460 | 11,620 | 1,271 | — | 978 | 1,129 | — |
| 12,760 | — | 12,460 | 11,620 | 1,271 | — | 978 | 1,129 | — |
| 12,760 | — | 12,460 | 11,620 | 1,271 | — | 992 | 1,168 | — |
| 12,760 | — | 12,460 | 11,620 | 1,271 | — | 978 | 1,129 | — |
| 14,780 | — | 14,430 | 13,460 | 1,471 | — | 1,142 | 1,334 | — |
| 16,790 | — | 16,400 | 15,290 | 1,672 | — | 1,279 | 1,462 | — |
| 18,810 | — | 18,360 | 17,130 | 1,872 | — | 1,429 | 1,628 | — |
| 1,340 | — | 173 | 161 | — | — | — | — | — |
| 2,470 | 2,470 | — | 318 | 233 | — | — | — | — |
| 2,860 | 2,860 | — | 366 | 279 | — | — | — | — |
| 2,950 | 2,950 | — | — | 381 | 326 | — | — | — |
| 3,390 | 3,390 | 3,390 | 3,390 | 437 | 414 | 464 | 651 | — |
| 3,930 | 3,930 | 3,930 | 3,930 | 503 | 497 | 556 | 749 | — |
| 4,460 | 4,460 | 4,460 | 4,460 | 568 | 579 | 648 | 847 | — |

† Hydril TS ‡ Hydril Super FJ-P

†† Hydril FJ-P ‡‡ Hydril Super EU

# 7.625 29.7# P-110 HC Stinger™

## Pipe Body Data

| | | |
|---|---|---|
| Nominal OD | 7.625 | Inches |
| Wall Thickness | 0.375 | Inches |
| Weight | 29.70 | lb/ft |
| PE Weight | 29.04 | lb/ft |
| Nominal ID | 6.875 | Inches |
| Drift | 6.750 | Inches |
| Minimum Yield Strength | 110,000 | PSI |
| Minimum Tensile Strength | 125,000 | PSI |
| RBW | 87.5% | Rating |

## Connection Data

| | | |
|---|---|---|
| Connection OD | 7.625 | Inches |
| Connection ID | 6.875 | Inches |
| Make-Up loss | 3.030 | Inches |
| Tension Efficiency | 60% | Rating |
| Compression Efficiency | 60% | Rating |
| Yield Strength in Tension | 564,000 | LBS. |
| Yield Strength in Compression | 564,000 | LBS. |
| MIYP (Burst) | 7,570 | PSI |
| Collapse Pressure | 6,150 | PSI |
| Uniaxial Bending | - | degrees |

## Make-Up torques

| | | |
|---|---|---|
| Yield torque | 25,960 | LBS. |
| Max Operating Torque | 23,600 | LBS. |
| Max Make-Up | 18,900 | LBS. |
| Optimum Make-Up | 17,200 | LBS. |
| Minimum Make-Up | 15,500 | LBS. |

**Technical Sales Support:** Rafael Escamilla Jr., Cell: 281-949-7704, jescamilla@ofsint.com

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

WELL: Mesa 8105 11 Federal #74H (WUAP)
TVD: 12459
MD: 17634

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 | 8073 | 0 | 8000 | yes | 29.7 | P110 | Buttress | 1.4 | 2.4 | 3.9 | 4.0 | Dry | 9.4 |
| 8 3/4 | 7 5/8 | 8073 | 12016 | 8000 | 11907 | yes | 29.7 | P110 | RJ | 1.7 | 1.6 | 2.6 | 2.7 | Dry | 9.4 |
| 6 3/4 | 5 1/2 | 0 | 11816 | 0 | 11707 | Yes | 20 | P110 | Buttress | 1.3 | 1.5 | 2.7 | 2.8 | Dry | 14 |
| 6 3/4 | 5 | 11816 | 17634 | 11707 | 12459 | Yes | 18 | P110 | Buttress | 1.3 | 1.4 | 1.8 | 1.9 | Dry | 14 |

*7 5/8" has DV Tool @ 4637'

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

WELL: Mesa 8105 11 Federal #74H (WUAP)
TVD: 12459
MD: 17634

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 | 8073 | 0 | 8000 | yes | 29.7 | P110 | Buttress | 1.4 | 2.4 | 3.9 | 4.0 | Dry | 9.4 |
| 8 3/4 | 7 5/8 | 8073 | 12016 | 8000 | 11907 | yes | 29.7 | P110 | RJ | 1.7 | 1.6 | 2.6 | 2.7 | Dry | 9.4 |
| 6 3/4 | 5 1/2 | 0 | 11816 | 0 | 11707 | Yes | 20 | P110 | Buttress | 1.3 | 1.5 | 2.7 | 2.8 | Dry | 14 |
| 6 3/4 | 5 | 11816 | 17634 | 11707 | 12459 | Yes | 18 | P110 | Buttress | 1.3 | 1.4 | 1.8 | 1.9 | Dry | 14 |

*7 5/8" has DV Tool @ 4637'

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

WELL: Mesa 8105 11 Federal #74H (WUAP)
TVD: 12459
MD: 17634

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 | 8073 | 0 | 8000 | yes | 29.7 | P110 | Buttress | 1.4 | 2.4 | 3.9 | 4.0 | Dry | 9.4 |
| 8 3/4 | 7 5/8 | 8073 | 12016 | 8000 | 11907 | yes | 29.7 | P110 | RJ | 1.7 | 1.6 | 2.6 | 2.7 | Dry | 9.4 |
| 6 3/4 | 5 1/2 | 0 | 11816 | 0 | 11707 | Yes | 20 | P110 | Buttress | 1.3 | 1.5 | 2.7 | 2.8 | Dry | 14 |
| 6 3/4 | 5 | 11816 | 17634 | 11707 | 12459 | Yes | 18 | P110 | Buttress | 1.3 | 1.4 | 1.8 | 1.9 | Dry | 14 |

*7 5/8" has DV Tool @ 4637'

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

WELL: Mesa 8105 11 Federal #74H (WUAP)
TVD: 12459
MD: 17634

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 | 8073 | 0 | 8000 | yes | 29.7 | P110 | Buttress | 1.4 | 2.4 | 3.9 | 4.0 | Dry | 9.4 |
| 8 3/4 | 7 5/8 | 8073 | 12016 | 8000 | 11907 | yes | 29.7 | P110 | RJ | 1.7 | 1.6 | 2.6 | 2.7 | Dry | 9.4 |
| 6 3/4 | 5 1/2 | 0 | 11816 | 0 | 11707 | Yes | 20 | P110 | Buttress | 1.3 | 1.5 | 2.7 | 2.8 | Dry | 14 |
| 6 3/4 | 5 | 11816 | 17634 | 11707 | 12459 | Yes | 18 | P110 | Buttress | 1.3 | 1.4 | 1.8 | 1.9 | Dry | 14 |

*7 5/8" has DV Tool @ 4637'

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

WELL: Mesa 8105 11 Federal #74H (WUAP)
TVD: 12459
MD: 17634

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 | 8073 | 0 | 8000 | yes | 29.7 | P110 | Buttress | 1.4 | 2.4 | 3.9 | 4.0 | Dry | 9.4 |
| 8 3/4 | 7 5/8 | 8073 | 12016 | 8000 | 11907 | yes | 29.7 | P110 | RJ | 1.7 | 1.6 | 2.6 | 2.7 | Dry | 9.4 |
| 6 3/4 | 5 1/2 | 0 | 11816 | 0 | 11707 | Yes | 20 | P110 | Buttress | 1.3 | 1.5 | 2.7 | 2.8 | Dry | 14 |
| 6 3/4 | 5 | 11816 | 17634 | 11707 | 12459 | Yes | 18 | P110 | Buttress | 1.3 | 1.4 | 1.8 | 1.9 | Dry | 14 |

*7 5/8" has DV Tool @ 4637'

# EMERGENCY CALL LIST

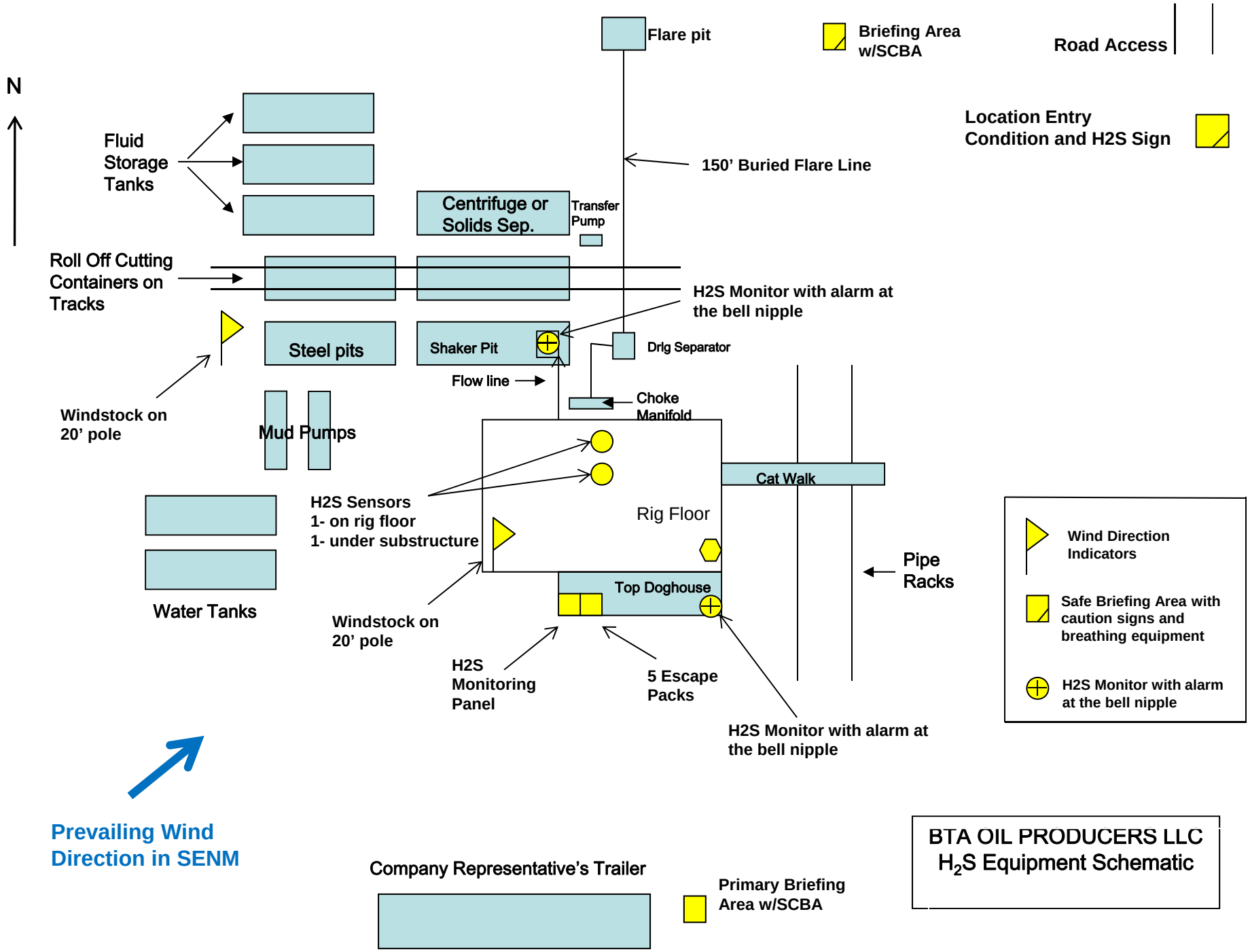
| | OFFICE | MOBILE |
|---|---|---|
| BTA Oil Producers LLC OFFICE | 432-682-3753 | |
| BEN GRIMES, Operations | 432-682-3753 | 432-559-4309 |
| NICK EATON, Drilling | 432-682-3753 | 432-260-7841 |
| TRACE WOHLFAHRT, Completions | 432-682-3753 | |

# 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 |

Released to Imaging: 4/27/2021 11:18:07 AM

Received by OCD: 4/15/2021 9:56:46 AM




BTA OIL PRODUCERS LLC
$H_2S$ Equipment Schematic

**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

Released to Imaging: 4/27/2021 11:18:07 AM

Received by OCD: 4/15/2021 9:56:46 AM

# BTA Oil Producers, LLC

Azimuths to Grid North
True North: -0.37°
Magnetic North: 7.40°

Magnetic Field
Strength: 48689.5nT
Dip Angle: 60.08°
Date: 12/31/2009
Model: IGRF200510

## WELL DETAILS: Mesa #74H

| +N/-S | +E/-W | Northing | Easting | Latitude | Longitude |
|---|---|---|---|---|---|
| 0.0 | 0.0 | 387582.90 | 755321.90 | 32° 3' 49.186 N | 103° 38' 33.231 W |

Ground Level 3251.0

## 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

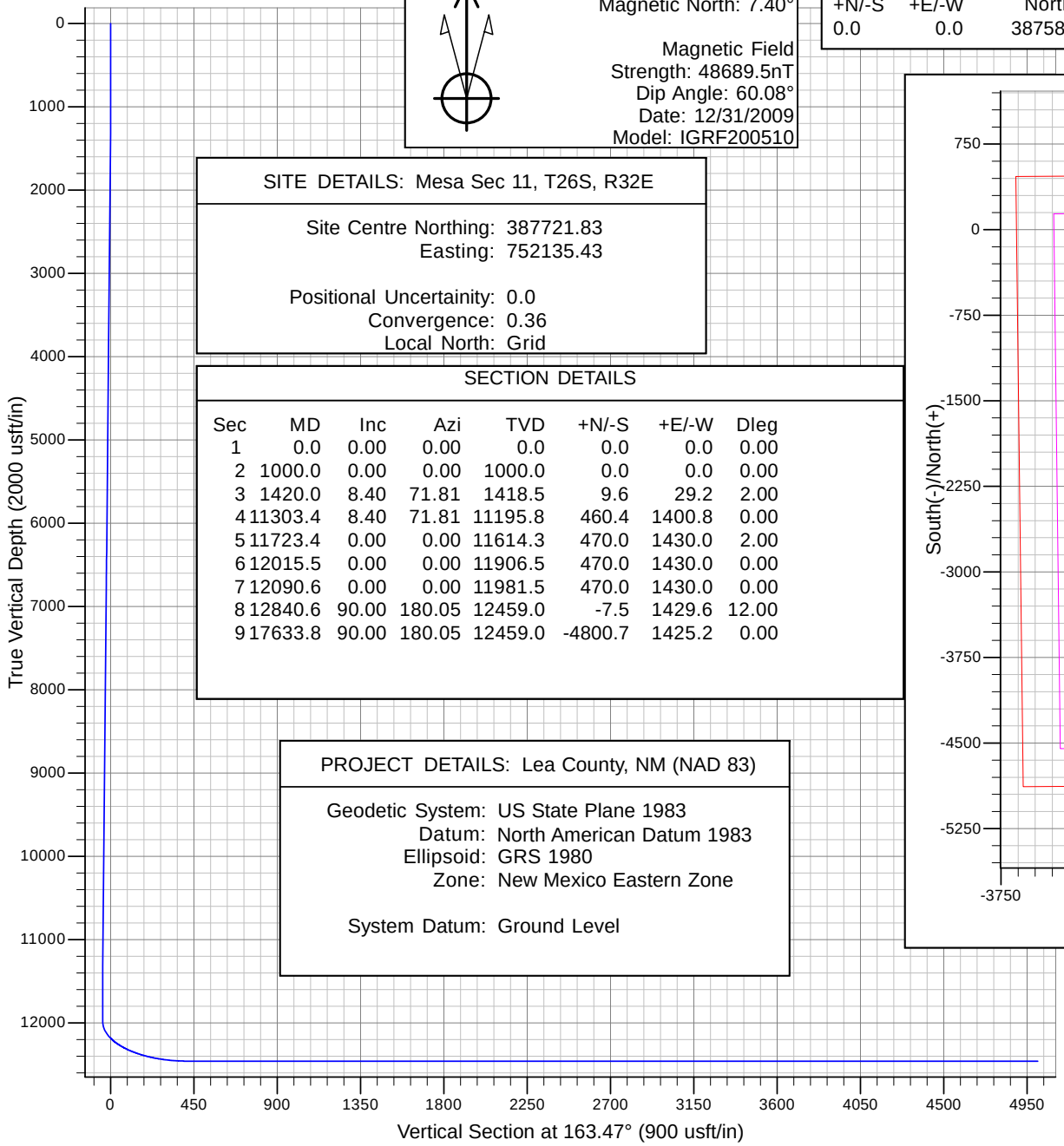
## SECTION DETAILS

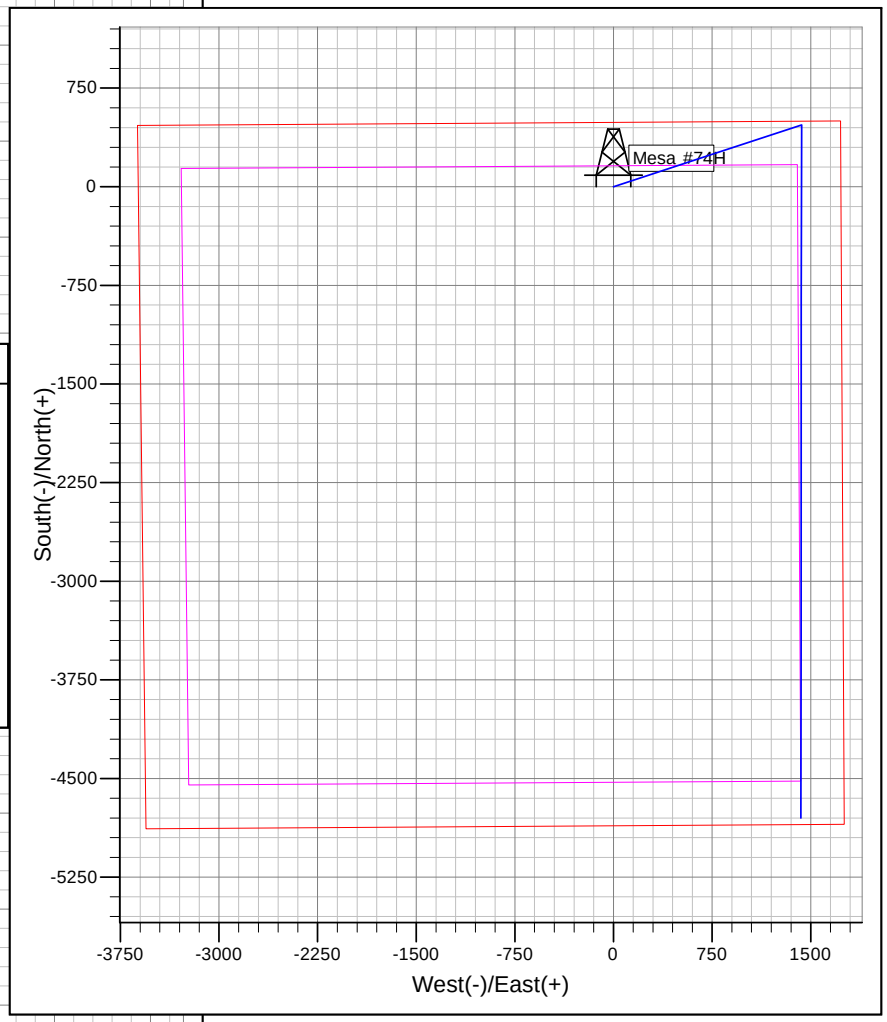
| Sec | MD | Inc | Azi | TVD | +N/-S | +E/-W | Dleg |
|---|---|---|---|---|---|---|---|
| 1 | 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 |
| 2 | 1000.0 | 0.00 | 0.00 | 1000.0 | 0.0 | 0.0 | 0.00 |
| 3 | 1420.0 | 8.40 | 71.81 | 1418.5 | 9.6 | 29.2 | 2.00 |
| 4 | 11303.4 | 8.40 | 71.81 | 11195.8 | 460.4 | 1400.8 | 0.00 |
| 5 | 11723.4 | 0.00 | 0.00 | 11614.3 | 470.0 | 1430.0 | 2.00 |
| 6 | 12015.5 | 0.00 | 0.00 | 11906.5 | 470.0 | 1430.0 | 0.00 |
| 7 | 12090.6 | 0.00 | 0.00 | 11981.5 | 470.0 | 1430.0 | 0.00 |
| 8 | 12840.6 | 90.00 | 180.05 | 12459.0 | -7.5 | 1429.6 | 12.00 |
| 9 | 17633.8 | 90.00 | 180.05 | 12459.0 | -4800.7 | 1425.2 | 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

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# BTA Oil Producers, LLC

**Lea County, NM (NAD 83)**
**Mesa Sec 11, T26S, R32E**
**Mesa #74H**

**Wellbore #1**

**Plan: Design #1**

# Standard Planning Report - Geographic

**19 June, 2020**

# Microsoft

## Planning Report - Geographic

| | | | |
|---|---|---|---|
| **Database:** | Old | **Local Co-ordinate Reference:** | Well Mesa #74H |
| **Company:** | BTA Oil Producers, LLC | **TVD Reference:** | SL @ 3251.0usft |
| **Project:** | Lea County, NM (NAD 83) | **MD Reference:** | SL @ 3251.0usft |
| **Site:** | Mesa Sec 11, T26S, R32E | **North Reference:** | Grid |
| **Well:** | Mesa #74H | **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 #74H

| | | | | | | |
|---|---|---|---|---|---|---|
| **Well Position** | **+N/-S** | 0.0 usft | **Northing:** | 387,582.90 usft | **Latitude:** | 32° 3' 49.186 N |
| | **+E/-W** | 0.0 usft | **Easting:** | 755,321.90 usft | **Longitude:** | 103° 38' 33.231 W |
| **Position Uncertainty** | | 0.0 usft | **Wellhead Elevation:** | | **Ground Level:** | 3,251.0 usft |

**Wellbore** Wellbore #1

| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
|---|---|---|---|---|---|
| | IGRF200510 | 12/31/2009 | 7.77 | 60.08 | 48,689.45392747 |

**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 | 163.47 |

**Plan Survey Tool Program** **Date** 6/19/2020

| | Depth From (usft) | Depth To (usft) | Survey (Wellbore) | Tool Name | Remarks |
|---|---|---|---|---|---|
| 1 | 0.0 | 17,633.8 | 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 | |
| 1,420.0 | 8.40 | 71.81 | 1,418.5 | 9.6 | 29.2 | 2.00 | 2.00 | 0.00 | 71.81 | |
| 11,303.4 | 8.40 | 71.81 | 11,195.8 | 460.4 | 1,400.8 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 11,723.4 | 0.00 | 0.00 | 11,614.3 | 470.0 | 1,430.0 | 2.00 | -2.00 | 0.00 | 180.00 | |
| 12,015.5 | 0.00 | 0.00 | 11,906.5 | 470.0 | 1,430.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 12,090.6 | 0.00 | 0.00 | 11,981.5 | 470.0 | 1,430.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 12,840.6 | 90.00 | 180.05 | 12,459.0 | -7.5 | 1,429.6 | 12.00 | 12.00 | 0.00 | 180.05 | |
| 17,633.8 | 90.00 | 180.05 | 12,459.0 | -4,800.7 | 1,425.2 | 0.00 | 0.00 | 0.00 | 0.00 | Mesa #74H BHL |

# Microsoft

## Planning Report - Geographic

| | | | |
|---|---|---|---|
| **Database:** | Old | **Local Co-ordinate Reference:** | Well Mesa #74H |
| **Company:** | BTA Oil Producers, LLC | **TVD Reference:** | SL @ 3251.0usft |
| **Project:** | Lea County, NM (NAD 83) | **MD Reference:** | SL @ 3251.0usft |
| **Site:** | Mesa Sec 11, T26S, R32E | **North Reference:** | Grid |
| **Well:** | Mesa #74H | **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 | 387,582.90 | 755,321.90 | 32° 3' 49.186 N | 103° 38' 33.231 W |
| 100.0 | 0.00 | 0.00 | 100.0 | 0.0 | 0.0 | 387,582.90 | 755,321.90 | 32° 3' 49.186 N | 103° 38' 33.231 W |
| 200.0 | 0.00 | 0.00 | 200.0 | 0.0 | 0.0 | 387,582.90 | 755,321.90 | 32° 3' 49.186 N | 103° 38' 33.231 W |
| 300.0 | 0.00 | 0.00 | 300.0 | 0.0 | 0.0 | 387,582.90 | 755,321.90 | 32° 3' 49.186 N | 103° 38' 33.231 W |
| 400.0 | 0.00 | 0.00 | 400.0 | 0.0 | 0.0 | 387,582.90 | 755,321.90 | 32° 3' 49.186 N | 103° 38' 33.231 W |
| 500.0 | 0.00 | 0.00 | 500.0 | 0.0 | 0.0 | 387,582.90 | 755,321.90 | 32° 3' 49.186 N | 103° 38' 33.231 W |
| 600.0 | 0.00 | 0.00 | 600.0 | 0.0 | 0.0 | 387,582.90 | 755,321.90 | 32° 3' 49.186 N | 103° 38' 33.231 W |
| 700.0 | 0.00 | 0.00 | 700.0 | 0.0 | 0.0 | 387,582.90 | 755,321.90 | 32° 3' 49.186 N | 103° 38' 33.231 W |
| 800.0 | 0.00 | 0.00 | 800.0 | 0.0 | 0.0 | 387,582.90 | 755,321.90 | 32° 3' 49.186 N | 103° 38' 33.231 W |
| 900.0 | 0.00 | 0.00 | 900.0 | 0.0 | 0.0 | 387,582.90 | 755,321.90 | 32° 3' 49.186 N | 103° 38' 33.231 W |
| 1,000.0 | 0.00 | 0.00 | 1,000.0 | 0.0 | 0.0 | 387,582.90 | 755,321.90 | 32° 3' 49.186 N | 103° 38' 33.231 W |
| 1,100.0 | 2.00 | 71.81 | 1,100.0 | 0.5 | 1.7 | 387,583.44 | 755,323.55 | 32° 3' 49.191 N | 103° 38' 33.212 W |
| 1,200.0 | 4.00 | 71.81 | 1,199.8 | 2.2 | 6.6 | 387,585.08 | 755,328.53 | 32° 3' 49.207 N | 103° 38' 33.154 W |
| 1,300.0 | 6.00 | 71.81 | 1,299.5 | 4.9 | 14.9 | 387,587.80 | 755,336.81 | 32° 3' 49.233 N | 103° 38' 33.057 W |
| 1,400.0 | 8.00 | 71.81 | 1,398.7 | 8.7 | 26.5 | 387,591.60 | 755,348.38 | 32° 3' 49.270 N | 103° 38' 32.922 W |
| 1,420.0 | 8.40 | 71.81 | 1,418.5 | 9.6 | 29.2 | 387,592.49 | 755,351.09 | 32° 3' 49.279 N | 103° 38' 32.891 W |
| 1,500.0 | 8.40 | 71.81 | 1,497.6 | 13.2 | 40.3 | 387,596.14 | 755,362.19 | 32° 3' 49.314 N | 103° 38' 32.762 W |
| 1,600.0 | 8.40 | 71.81 | 1,596.6 | 17.8 | 54.2 | 387,600.70 | 755,376.07 | 32° 3' 49.359 N | 103° 38' 32.600 W |
| 1,700.0 | 8.40 | 71.81 | 1,695.5 | 22.4 | 68.1 | 387,605.27 | 755,389.95 | 32° 3' 49.403 N | 103° 38' 32.438 W |
| 1,800.0 | 8.40 | 71.81 | 1,794.4 | 26.9 | 81.9 | 387,609.83 | 755,403.83 | 32° 3' 49.447 N | 103° 38' 32.277 W |
| 1,900.0 | 8.40 | 71.81 | 1,893.3 | 31.5 | 95.8 | 387,614.39 | 755,417.70 | 32° 3' 49.491 N | 103° 38' 32.115 W |
| 2,000.0 | 8.40 | 71.81 | 1,992.3 | 36.1 | 109.7 | 387,618.95 | 755,431.58 | 32° 3' 49.536 N | 103° 38' 31.954 W |
| 2,100.0 | 8.40 | 71.81 | 2,091.2 | 40.6 | 123.6 | 387,623.51 | 755,445.46 | 32° 3' 49.580 N | 103° 38' 31.792 W |
| 2,200.0 | 8.40 | 71.81 | 2,190.1 | 45.2 | 137.4 | 387,628.07 | 755,459.34 | 32° 3' 49.624 N | 103° 38' 31.630 W |
| 2,300.0 | 8.40 | 71.81 | 2,289.1 | 49.7 | 151.3 | 387,632.63 | 755,473.21 | 32° 3' 49.668 N | 103° 38' 31.469 W |
| 2,400.0 | 8.40 | 71.81 | 2,388.0 | 54.3 | 165.2 | 387,637.19 | 755,487.09 | 32° 3' 49.713 N | 103° 38' 31.307 W |
| 2,500.0 | 8.40 | 71.81 | 2,486.9 | 58.9 | 179.1 | 387,641.75 | 755,500.97 | 32° 3' 49.757 N | 103° 38' 31.146 W |
| 2,600.0 | 8.40 | 71.81 | 2,585.8 | 63.4 | 193.0 | 387,646.32 | 755,514.85 | 32° 3' 49.801 N | 103° 38' 30.984 W |
| 2,700.0 | 8.40 | 71.81 | 2,684.8 | 68.0 | 206.8 | 387,650.88 | 755,528.72 | 32° 3' 49.845 N | 103° 38' 30.822 W |
| 2,800.0 | 8.40 | 71.81 | 2,783.7 | 72.5 | 220.7 | 387,655.44 | 755,542.60 | 32° 3' 49.890 N | 103° 38' 30.661 W |
| 2,900.0 | 8.40 | 71.81 | 2,882.6 | 77.1 | 234.6 | 387,660.00 | 755,556.48 | 32° 3' 49.934 N | 103° 38' 30.499 W |
| 3,000.0 | 8.40 | 71.81 | 2,981.5 | 81.7 | 248.5 | 387,664.56 | 755,570.35 | 32° 3' 49.978 N | 103° 38' 30.338 W |
| 3,100.0 | 8.40 | 71.81 | 3,080.5 | 86.2 | 262.3 | 387,669.12 | 755,584.23 | 32° 3' 50.022 N | 103° 38' 30.176 W |
| 3,200.0 | 8.40 | 71.81 | 3,179.4 | 90.8 | 276.2 | 387,673.68 | 755,598.11 | 32° 3' 50.067 N | 103° 38' 30.014 W |
| 3,300.0 | 8.40 | 71.81 | 3,278.3 | 95.3 | 290.1 | 387,678.24 | 755,611.99 | 32° 3' 50.111 N | 103° 38' 29.853 W |
| 3,400.0 | 8.40 | 71.81 | 3,377.3 | 99.9 | 304.0 | 387,682.80 | 755,625.86 | 32° 3' 50.155 N | 103° 38' 29.691 W |
| 3,500.0 | 8.40 | 71.81 | 3,476.2 | 104.5 | 317.9 | 387,687.37 | 755,639.74 | 32° 3' 50.199 N | 103° 38' 29.530 W |
| 3,600.0 | 8.40 | 71.81 | 3,575.1 | 109.0 | 331.7 | 387,691.93 | 755,653.62 | 32° 3' 50.244 N | 103° 38' 29.368 W |
| 3,700.0 | 8.40 | 71.81 | 3,674.0 | 113.6 | 345.6 | 387,696.49 | 755,667.50 | 32° 3' 50.288 N | 103° 38' 29.206 W |
| 3,800.0 | 8.40 | 71.81 | 3,773.0 | 118.2 | 359.5 | 387,701.05 | 755,681.37 | 32° 3' 50.332 N | 103° 38' 29.045 W |
| 3,900.0 | 8.40 | 71.81 | 3,871.9 | 122.7 | 373.4 | 387,705.61 | 755,695.25 | 32° 3' 50.376 N | 103° 38' 28.883 W |
| 4,000.0 | 8.40 | 71.81 | 3,970.8 | 127.3 | 387.2 | 387,710.17 | 755,709.13 | 32° 3' 50.421 N | 103° 38' 28.722 W |
| 4,100.0 | 8.40 | 71.81 | 4,069.7 | 131.8 | 401.1 | 387,714.73 | 755,723.01 | 32° 3' 50.465 N | 103° 38' 28.560 W |
| 4,200.0 | 8.40 | 71.81 | 4,168.7 | 136.4 | 415.0 | 387,719.29 | 755,736.88 | 32° 3' 50.509 N | 103° 38' 28.398 W |
| 4,300.0 | 8.40 | 71.81 | 4,267.6 | 141.0 | 428.9 | 387,723.85 | 755,750.76 | 32° 3' 50.553 N | 103° 38' 28.237 W |
| 4,400.0 | 8.40 | 71.81 | 4,366.5 | 145.5 | 442.8 | 387,728.42 | 755,764.64 | 32° 3' 50.598 N | 103° 38' 28.075 W |
| 4,500.0 | 8.40 | 71.81 | 4,465.5 | 150.1 | 456.6 | 387,732.98 | 755,778.52 | 32° 3' 50.642 N | 103° 38' 27.914 W |
| 4,600.0 | 8.40 | 71.81 | 4,564.4 | 154.6 | 470.5 | 387,737.54 | 755,792.39 | 32° 3' 50.686 N | 103° 38' 27.752 W |
| 4,700.0 | 8.40 | 71.81 | 4,663.3 | 159.2 | 484.4 | 387,742.10 | 755,806.27 | 32° 3' 50.730 N | 103° 38' 27.590 W |
| 4,800.0 | 8.40 | 71.81 | 4,762.2 | 163.8 | 498.3 | 387,746.66 | 755,820.15 | 32° 3' 50.775 N | 103° 38' 27.429 W |
| 4,900.0 | 8.40 | 71.81 | 4,861.2 | 168.3 | 512.1 | 387,751.22 | 755,834.03 | 32° 3' 50.819 N | 103° 38' 27.267 W |
| 5,000.0 | 8.40 | 71.81 | 4,960.1 | 172.9 | 526.0 | 387,755.78 | 755,847.90 | 32° 3' 50.863 N | 103° 38' 27.106 W |
| 5,100.0 | 8.40 | 71.81 | 5,059.0 | 177.5 | 539.9 | 387,760.34 | 755,861.78 | 32° 3' 50.907 N | 103° 38' 26.944 W |
| 5,200.0 | 8.40 | 71.81 | 5,157.9 | 182.0 | 553.8 | 387,764.90 | 755,875.66 | 32° 3' 50.952 N | 103° 38' 26.782 W |
| 5,300.0 | 8.40 | 71.81 | 5,256.9 | 186.6 | 567.7 | 387,769.47 | 755,889.54 | 32° 3' 50.996 N | 103° 38' 26.621 W |

# Microsoft

## Planning Report - Geographic

| | | | |
|---|---|---|---|
| **Database:** | Old | **Local Co-ordinate Reference:** | Well Mesa #74H |
| **Company:** | BTA Oil Producers, LLC | **TVD Reference:** | SL @ 3251.0usft |
| **Project:** | Lea County, NM (NAD 83) | **MD Reference:** | SL @ 3251.0usft |
| **Site:** | Mesa Sec 11, T26S, R32E | **North Reference:** | Grid |
| **Well:** | Mesa #74H | **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 |
|---|---|---|---|---|---|---|---|---|---|
| 5,400.0 | 8.40 | 71.81 | 5,355.8 | 191.1 | 581.5 | 387,774.03 | 755,903.41 | 32° 3' 51.040 N | 103° 38' 26.459 W |
| 5,500.0 | 8.40 | 71.81 | 5,454.7 | 195.7 | 595.4 | 387,778.59 | 755,917.29 | 32° 3' 51.084 N | 103° 38' 26.298 W |
| 5,600.0 | 8.40 | 71.81 | 5,553.7 | 200.3 | 609.3 | 387,783.15 | 755,931.17 | 32° 3' 51.129 N | 103° 38' 26.136 W |
| 5,700.0 | 8.40 | 71.81 | 5,652.6 | 204.8 | 623.2 | 387,787.71 | 755,945.04 | 32° 3' 51.173 N | 103° 38' 25.974 W |
| 5,800.0 | 8.40 | 71.81 | 5,751.5 | 209.4 | 637.0 | 387,792.27 | 755,958.92 | 32° 3' 51.217 N | 103° 38' 25.813 W |
| 5,900.0 | 8.40 | 71.81 | 5,850.4 | 213.9 | 650.9 | 387,796.83 | 755,972.80 | 32° 3' 51.261 N | 103° 38' 25.651 W |
| 6,000.0 | 8.40 | 71.81 | 5,949.4 | 218.5 | 664.8 | 387,801.39 | 755,986.68 | 32° 3' 51.306 N | 103° 38' 25.489 W |
| 6,100.0 | 8.40 | 71.81 | 6,048.3 | 223.1 | 678.7 | 387,805.95 | 756,000.55 | 32° 3' 51.350 N | 103° 38' 25.328 W |
| 6,200.0 | 8.40 | 71.81 | 6,147.2 | 227.6 | 692.6 | 387,810.52 | 756,014.43 | 32° 3' 51.394 N | 103° 38' 25.166 W |
| 6,300.0 | 8.40 | 71.81 | 6,246.1 | 232.2 | 706.4 | 387,815.08 | 756,028.31 | 32° 3' 51.438 N | 103° 38' 25.005 W |
| 6,400.0 | 8.40 | 71.81 | 6,345.1 | 236.7 | 720.3 | 387,819.64 | 756,042.19 | 32° 3' 51.483 N | 103° 38' 24.843 W |
| 6,500.0 | 8.40 | 71.81 | 6,444.0 | 241.3 | 734.2 | 387,824.20 | 756,056.06 | 32° 3' 51.527 N | 103° 38' 24.681 W |
| 6,600.0 | 8.40 | 71.81 | 6,542.9 | 245.9 | 748.1 | 387,828.76 | 756,069.94 | 32° 3' 51.571 N | 103° 38' 24.520 W |
| 6,700.0 | 8.40 | 71.81 | 6,641.9 | 250.4 | 762.0 | 387,833.32 | 756,083.82 | 32° 3' 51.616 N | 103° 38' 24.358 W |
| 6,800.0 | 8.40 | 71.81 | 6,740.8 | 255.0 | 775.8 | 387,837.88 | 756,097.70 | 32° 3' 51.660 N | 103° 38' 24.197 W |
| 6,900.0 | 8.40 | 71.81 | 6,839.7 | 259.6 | 789.7 | 387,842.44 | 756,111.57 | 32° 3' 51.704 N | 103° 38' 24.035 W |
| 7,000.0 | 8.40 | 71.81 | 6,938.6 | 264.1 | 803.6 | 387,847.00 | 756,125.45 | 32° 3' 51.748 N | 103° 38' 23.873 W |
| 7,100.0 | 8.40 | 71.81 | 7,037.6 | 268.7 | 817.5 | 387,851.56 | 756,139.33 | 32° 3' 51.793 N | 103° 38' 23.712 W |
| 7,200.0 | 8.40 | 71.81 | 7,136.5 | 273.2 | 831.3 | 387,856.13 | 756,153.21 | 32° 3' 51.837 N | 103° 38' 23.550 W |
| 7,300.0 | 8.40 | 71.81 | 7,235.4 | 277.8 | 845.2 | 387,860.69 | 756,167.08 | 32° 3' 51.881 N | 103° 38' 23.389 W |
| 7,400.0 | 8.40 | 71.81 | 7,334.3 | 282.4 | 859.1 | 387,865.25 | 756,180.96 | 32° 3' 51.925 N | 103° 38' 23.227 W |
| 7,500.0 | 8.40 | 71.81 | 7,433.3 | 286.9 | 873.0 | 387,869.81 | 756,194.84 | 32° 3' 51.970 N | 103° 38' 23.065 W |
| 7,600.0 | 8.40 | 71.81 | 7,532.2 | 291.5 | 886.9 | 387,874.37 | 756,208.72 | 32° 3' 52.014 N | 103° 38' 22.904 W |
| 7,700.0 | 8.40 | 71.81 | 7,631.1 | 296.0 | 900.7 | 387,878.93 | 756,222.59 | 32° 3' 52.058 N | 103° 38' 22.742 W |
| 7,800.0 | 8.40 | 71.81 | 7,730.1 | 300.6 | 914.6 | 387,883.49 | 756,236.47 | 32° 3' 52.102 N | 103° 38' 22.581 W |
| 7,900.0 | 8.40 | 71.81 | 7,829.0 | 305.2 | 928.5 | 387,888.05 | 756,250.35 | 32° 3' 52.147 N | 103° 38' 22.419 W |
| 8,000.0 | 8.40 | 71.81 | 7,927.9 | 309.7 | 942.4 | 387,892.61 | 756,264.23 | 32° 3' 52.191 N | 103° 38' 22.257 W |
| 8,100.0 | 8.40 | 71.81 | 8,026.8 | 314.3 | 956.2 | 387,897.18 | 756,278.10 | 32° 3' 52.235 N | 103° 38' 22.096 W |
| 8,200.0 | 8.40 | 71.81 | 8,125.8 | 318.9 | 970.1 | 387,901.74 | 756,291.98 | 32° 3' 52.279 N | 103° 38' 21.934 W |
| 8,300.0 | 8.40 | 71.81 | 8,224.7 | 323.4 | 984.0 | 387,906.30 | 756,305.86 | 32° 3' 52.324 N | 103° 38' 21.773 W |
| 8,400.0 | 8.40 | 71.81 | 8,323.6 | 328.0 | 997.9 | 387,910.86 | 756,319.73 | 32° 3' 52.368 N | 103° 38' 21.611 W |
| 8,500.0 | 8.40 | 71.81 | 8,422.5 | 332.5 | 1,011.8 | 387,915.42 | 756,333.61 | 32° 3' 52.412 N | 103° 38' 21.449 W |
| 8,600.0 | 8.40 | 71.81 | 8,521.5 | 337.1 | 1,025.6 | 387,919.98 | 756,347.49 | 32° 3' 52.456 N | 103° 38' 21.288 W |
| 8,700.0 | 8.40 | 71.81 | 8,620.4 | 341.7 | 1,039.5 | 387,924.54 | 756,361.37 | 32° 3' 52.501 N | 103° 38' 21.126 W |
| 8,800.0 | 8.40 | 71.81 | 8,719.3 | 346.2 | 1,053.4 | 387,929.10 | 756,375.24 | 32° 3' 52.545 N | 103° 38' 20.965 W |
| 8,900.0 | 8.40 | 71.81 | 8,818.3 | 350.8 | 1,067.3 | 387,933.66 | 756,389.12 | 32° 3' 52.589 N | 103° 38' 20.803 W |
| 9,000.0 | 8.40 | 71.81 | 8,917.2 | 355.3 | 1,081.1 | 387,938.23 | 756,403.00 | 32° 3' 52.633 N | 103° 38' 20.641 W |
| 9,100.0 | 8.40 | 71.81 | 9,016.1 | 359.9 | 1,095.0 | 387,942.79 | 756,416.88 | 32° 3' 52.678 N | 103° 38' 20.480 W |
| 9,200.0 | 8.40 | 71.81 | 9,115.0 | 364.5 | 1,108.9 | 387,947.35 | 756,430.75 | 32° 3' 52.722 N | 103° 38' 20.318 W |
| 9,300.0 | 8.40 | 71.81 | 9,214.0 | 369.0 | 1,122.8 | 387,951.91 | 756,444.63 | 32° 3' 52.766 N | 103° 38' 20.157 W |
| 9,400.0 | 8.40 | 71.81 | 9,312.9 | 373.6 | 1,136.7 | 387,956.47 | 756,458.51 | 32° 3' 52.810 N | 103° 38' 19.995 W |
| 9,500.0 | 8.40 | 71.81 | 9,411.8 | 378.1 | 1,150.5 | 387,961.03 | 756,472.39 | 32° 3' 52.855 N | 103° 38' 19.833 W |
| 9,600.0 | 8.40 | 71.81 | 9,510.7 | 382.7 | 1,164.4 | 387,965.59 | 756,486.26 | 32° 3' 52.899 N | 103° 38' 19.672 W |
| 9,700.0 | 8.40 | 71.81 | 9,609.7 | 387.3 | 1,178.3 | 387,970.15 | 756,500.14 | 32° 3' 52.943 N | 103° 38' 19.510 W |
| 9,800.0 | 8.40 | 71.81 | 9,708.6 | 391.8 | 1,192.2 | 387,974.71 | 756,514.02 | 32° 3' 52.987 N | 103° 38' 19.348 W |
| 9,900.0 | 8.40 | 71.81 | 9,807.5 | 396.4 | 1,206.0 | 387,979.28 | 756,527.90 | 32° 3' 53.032 N | 103° 38' 19.187 W |
| 10,000.0 | 8.40 | 71.81 | 9,906.5 | 401.0 | 1,219.9 | 387,983.84 | 756,541.77 | 32° 3' 53.076 N | 103° 38' 19.025 W |
| 10,100.0 | 8.40 | 71.81 | 10,005.4 | 405.5 | 1,233.8 | 387,988.40 | 756,555.65 | 32° 3' 53.120 N | 103° 38' 18.864 W |
| 10,200.0 | 8.40 | 71.81 | 10,104.3 | 410.1 | 1,247.7 | 387,992.96 | 756,569.53 | 32° 3' 53.164 N | 103° 38' 18.702 W |
| 10,300.0 | 8.40 | 71.81 | 10,203.2 | 414.6 | 1,261.6 | 387,997.52 | 756,583.41 | 32° 3' 53.209 N | 103° 38' 18.540 W |
| 10,400.0 | 8.40 | 71.81 | 10,302.2 | 419.2 | 1,275.4 | 388,002.08 | 756,597.28 | 32° 3' 53.253 N | 103° 38' 18.379 W |
| 10,500.0 | 8.40 | 71.81 | 10,401.1 | 423.8 | 1,289.3 | 388,006.64 | 756,611.16 | 32° 3' 53.297 N | 103° 38' 18.217 W |
| 10,600.0 | 8.40 | 71.81 | 10,500.0 | 428.3 | 1,303.2 | 388,011.20 | 756,625.04 | 32° 3' 53.341 N | 103° 38' 18.056 W |
| 10,700.0 | 8.40 | 71.81 | 10,598.9 | 432.9 | 1,317.1 | 388,015.76 | 756,638.92 | 32° 3' 53.386 N | 103° 38' 17.894 W |
| 10,800.0 | 8.40 | 71.81 | 10,697.9 | 437.4 | 1,330.9 | 388,020.33 | 756,652.79 | 32° 3' 53.430 N | 103° 38' 17.732 W |

# Microsoft

## Planning Report - Geographic

| | | | |
|---|---|---|---|
| **Database:** | Old | **Local Co-ordinate Reference:** | Well Mesa #74H |
| **Company:** | BTA Oil Producers, LLC | **TVD Reference:** | SL @ 3251.0usft |
| **Project:** | Lea County, NM (NAD 83) | **MD Reference:** | SL @ 3251.0usft |
| **Site:** | Mesa Sec 11, T26S, R32E | **North Reference:** | Grid |
| **Well:** | Mesa #74H | **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 |
|---|---|---|---|---|---|---|---|---|---|
| 10,900.0 | 8.40 | 71.81 | 10,796.8 | 442.0 | 1,344.8 | 388,024.89 | 756,666.67 | 32° 3' 53.474 N | 103° 38' 17.571 W |
| 11,000.0 | 8.40 | 71.81 | 10,895.7 | 446.6 | 1,358.7 | 388,029.45 | 756,680.55 | 32° 3' 53.518 N | 103° 38' 17.409 W |
| 11,100.0 | 8.40 | 71.81 | 10,994.7 | 451.1 | 1,372.6 | 388,034.01 | 756,694.42 | 32° 3' 53.563 N | 103° 38' 17.248 W |
| 11,200.0 | 8.40 | 71.81 | 11,093.6 | 455.7 | 1,386.5 | 388,038.57 | 756,708.30 | 32° 3' 53.607 N | 103° 38' 17.086 W |
| 11,300.0 | 8.40 | 71.81 | 11,192.5 | 460.3 | 1,400.3 | 388,043.13 | 756,722.18 | 32° 3' 53.651 N | 103° 38' 16.924 W |
| 11,303.4 | 8.40 | 71.81 | 11,195.8 | 460.4 | 1,400.8 | 388,043.29 | 756,722.65 | 32° 3' 53.653 N | 103° 38' 16.919 W |
| 11,400.0 | 6.47 | 71.81 | 11,291.7 | 464.3 | 1,412.7 | 388,047.19 | 756,734.52 | 32° 3' 53.690 N | 103° 38' 16.781 W |
| 11,500.0 | 4.47 | 71.81 | 11,391.2 | 467.3 | 1,421.7 | 388,050.16 | 756,743.57 | 32° 3' 53.719 N | 103° 38' 16.675 W |
| 11,600.0 | 2.47 | 71.81 | 11,491.0 | 469.2 | 1,427.5 | 388,052.05 | 756,749.32 | 32° 3' 53.738 N | 103° 38' 16.608 W |
| 11,700.0 | 0.47 | 71.81 | 11,591.0 | 470.0 | 1,429.9 | 388,052.85 | 756,751.75 | 32° 3' 53.745 N | 103° 38' 16.580 W |
| 11,723.4 | 0.00 | 0.00 | 11,614.3 | 470.0 | 1,430.0 | 388,052.88 | 756,751.84 | 32° 3' 53.746 N | 103° 38' 16.579 W |
| 11,800.0 | 0.00 | 0.00 | 11,691.0 | 470.0 | 1,430.0 | 388,052.88 | 756,751.84 | 32° 3' 53.746 N | 103° 38' 16.579 W |
| 11,900.0 | 0.00 | 0.00 | 11,791.0 | 470.0 | 1,430.0 | 388,052.88 | 756,751.84 | 32° 3' 53.746 N | 103° 38' 16.579 W |
| 12,000.0 | 0.00 | 0.00 | 11,891.0 | 470.0 | 1,430.0 | 388,052.88 | 756,751.84 | 32° 3' 53.746 N | 103° 38' 16.579 W |
| 12,015.5 | 0.00 | 0.00 | 11,906.5 | 470.0 | 1,430.0 | 388,052.88 | 756,751.84 | 32° 3' 53.746 N | 103° 38' 16.579 W |
| 12,090.6 | 0.00 | 0.00 | 11,981.5 | 470.0 | 1,430.0 | 388,052.88 | 756,751.84 | 32° 3' 53.746 N | 103° 38' 16.579 W |
| 12,100.0 | 1.13 | 180.05 | 11,991.0 | 469.9 | 1,430.0 | 388,052.79 | 756,751.84 | 32° 3' 53.745 N | 103° 38' 16.579 W |
| 12,200.0 | 13.13 | 180.05 | 12,090.0 | 457.5 | 1,430.0 | 388,040.39 | 756,751.83 | 32° 3' 53.622 N | 103° 38' 16.580 W |
| 12,300.0 | 25.13 | 180.05 | 12,184.3 | 424.8 | 1,430.0 | 388,007.68 | 756,751.80 | 32° 3' 53.298 N | 103° 38' 16.583 W |
| 12,400.0 | 37.13 | 180.05 | 12,269.8 | 373.2 | 1,429.9 | 387,956.08 | 756,751.75 | 32° 3' 52.788 N | 103° 38' 16.587 W |
| 12,500.0 | 49.13 | 180.05 | 12,342.6 | 304.9 | 1,429.8 | 387,887.84 | 756,751.69 | 32° 3' 52.112 N | 103° 38' 16.593 W |
| 12,600.0 | 61.13 | 180.05 | 12,399.7 | 223.1 | 1,429.8 | 387,805.94 | 756,751.61 | 32° 3' 51.302 N | 103° 38' 16.600 W |
| 12,700.0 | 73.13 | 180.05 | 12,438.5 | 131.1 | 1,429.7 | 387,713.97 | 756,751.53 | 32° 3' 50.392 N | 103° 38' 16.608 W |
| 12,800.0 | 85.13 | 180.05 | 12,457.3 | 33.1 | 1,429.6 | 387,615.95 | 756,751.44 | 32° 3' 49.422 N | 103° 38' 16.616 W |
| 12,840.6 | 90.00 | 180.05 | 12,459.0 | -7.5 | 1,429.6 | 387,575.43 | 756,751.40 | 32° 3' 49.021 N | 103° 38' 16.620 W |
| 12,900.0 | 90.00 | 180.05 | 12,459.0 | -66.9 | 1,429.5 | 387,516.00 | 756,751.35 | 32° 3' 48.433 N | 103° 38' 16.625 W |
| 13,000.0 | 90.00 | 180.05 | 12,459.0 | -166.9 | 1,429.4 | 387,416.01 | 756,751.26 | 32° 3' 47.443 N | 103° 38' 16.633 W |
| 13,100.0 | 90.00 | 180.05 | 12,459.0 | -266.9 | 1,429.3 | 387,316.01 | 756,751.16 | 32° 3' 46.454 N | 103° 38' 16.642 W |
| 13,200.0 | 90.00 | 180.05 | 12,459.0 | -366.9 | 1,429.2 | 387,216.01 | 756,751.07 | 32° 3' 45.464 N | 103° 38' 16.651 W |
| 13,300.0 | 90.00 | 180.05 | 12,459.0 | -466.9 | 1,429.1 | 387,116.02 | 756,750.98 | 32° 3' 44.475 N | 103° 38' 16.659 W |
| 13,400.0 | 90.00 | 180.05 | 12,459.0 | -566.9 | 1,429.0 | 387,016.02 | 756,750.89 | 32° 3' 43.485 N | 103° 38' 16.668 W |
| 13,500.0 | 90.00 | 180.05 | 12,459.0 | -666.9 | 1,429.0 | 386,916.03 | 756,750.80 | 32° 3' 42.496 N | 103° 38' 16.676 W |
| 13,600.0 | 90.00 | 180.05 | 12,459.0 | -766.9 | 1,428.9 | 386,816.03 | 756,750.70 | 32° 3' 41.506 N | 103° 38' 16.685 W |
| 13,700.0 | 90.00 | 180.05 | 12,459.0 | -866.9 | 1,428.8 | 386,716.03 | 756,750.61 | 32° 3' 40.517 N | 103° 38' 16.693 W |
| 13,800.0 | 90.00 | 180.05 | 12,459.0 | -966.9 | 1,428.7 | 386,616.04 | 756,750.52 | 32° 3' 39.527 N | 103° 38' 16.702 W |
| 13,900.0 | 90.00 | 180.05 | 12,459.0 | -1,066.9 | 1,428.6 | 386,516.04 | 756,750.43 | 32° 3' 38.538 N | 103° 38' 16.710 W |
| 14,000.0 | 90.00 | 180.05 | 12,459.0 | -1,166.9 | 1,428.5 | 386,416.05 | 756,750.34 | 32° 3' 37.548 N | 103° 38' 16.719 W |
| 14,100.0 | 90.00 | 180.05 | 12,459.0 | -1,266.9 | 1,428.4 | 386,316.05 | 756,750.25 | 32° 3' 36.559 N | 103° 38' 16.728 W |
| 14,200.0 | 90.00 | 180.05 | 12,459.0 | -1,366.9 | 1,428.3 | 386,216.05 | 756,750.15 | 32° 3' 35.569 N | 103° 38' 16.736 W |
| 14,300.0 | 90.00 | 180.05 | 12,459.0 | -1,466.9 | 1,428.2 | 386,116.06 | 756,750.06 | 32° 3' 34.580 N | 103° 38' 16.745 W |
| 14,400.0 | 90.00 | 180.05 | 12,459.0 | -1,566.9 | 1,428.1 | 386,016.06 | 756,749.97 | 32° 3' 33.590 N | 103° 38' 16.753 W |
| 14,500.0 | 90.00 | 180.05 | 12,459.0 | -1,666.9 | 1,428.0 | 385,916.07 | 756,749.88 | 32° 3' 32.601 N | 103° 38' 16.762 W |
| 14,600.0 | 90.00 | 180.05 | 12,459.0 | -1,766.9 | 1,427.9 | 385,816.07 | 756,749.79 | 32° 3' 31.611 N | 103° 38' 16.770 W |
| 14,700.0 | 90.00 | 180.05 | 12,459.0 | -1,866.9 | 1,427.9 | 385,716.07 | 756,749.69 | 32° 3' 30.622 N | 103° 38' 16.779 W |
| 14,800.0 | 90.00 | 180.05 | 12,459.0 | -1,966.9 | 1,427.8 | 385,616.08 | 756,749.60 | 32° 3' 29.632 N | 103° 38' 16.787 W |
| 14,900.0 | 90.00 | 180.05 | 12,459.0 | -2,066.9 | 1,427.7 | 385,516.08 | 756,749.51 | 32° 3' 28.643 N | 103° 38' 16.796 W |
| 15,000.0 | 90.00 | 180.05 | 12,459.0 | -2,166.9 | 1,427.6 | 385,416.08 | 756,749.42 | 32° 3' 27.653 N | 103° 38' 16.805 W |
| 15,100.0 | 90.00 | 180.05 | 12,459.0 | -2,266.9 | 1,427.5 | 385,316.09 | 756,749.33 | 32° 3' 26.664 N | 103° 38' 16.813 W |
| 15,200.0 | 90.00 | 180.05 | 12,459.0 | -2,366.9 | 1,427.4 | 385,216.09 | 756,749.23 | 32° 3' 25.674 N | 103° 38' 16.822 W |
| 15,300.0 | 90.00 | 180.05 | 12,459.0 | -2,466.9 | 1,427.3 | 385,116.10 | 756,749.14 | 32° 3' 24.685 N | 103° 38' 16.830 W |
| 15,400.0 | 90.00 | 180.05 | 12,459.0 | -2,566.9 | 1,427.2 | 385,016.10 | 756,749.05 | 32° 3' 23.695 N | 103° 38' 16.839 W |
| 15,500.0 | 90.00 | 180.05 | 12,459.0 | -2,666.9 | 1,427.1 | 384,916.10 | 756,748.96 | 32° 3' 22.706 N | 103° 38' 16.847 W |
| 15,600.0 | 90.00 | 180.05 | 12,459.0 | -2,766.9 | 1,427.0 | 384,816.11 | 756,748.87 | 32° 3' 21.716 N | 103° 38' 16.856 W |
| 15,700.0 | 90.00 | 180.05 | 12,459.0 | -2,866.9 | 1,426.9 | 384,716.11 | 756,748.77 | 32° 3' 20.727 N | 103° 38' 16.864 W |
| 15,800.0 | 90.00 | 180.05 | 12,459.0 | -2,966.9 | 1,426.8 | 384,616.12 | 756,748.68 | 32° 3' 19.737 N | 103° 38' 16.873 W |

# Microsoft

## Planning Report - Geographic

| | | | |
|---|---|---|---|
| **Database:** | Old | **Local Co-ordinate Reference:** | Well Mesa #74H |
| **Company:** | BTA Oil Producers, LLC | **TVD Reference:** | SL @ 3251.0usft |
| **Project:** | Lea County, NM (NAD 83) | **MD Reference:** | SL @ 3251.0usft |
| **Site:** | Mesa Sec 11, T26S, R32E | **North Reference:** | Grid |
| **Well:** | Mesa #74H | **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 |
|---|---|---|---|---|---|---|---|---|---|
| 15,900.0 | 90.00 | 180.05 | 12,459.0 | -3,066.9 | 1,426.7 | 384,516.12 | 756,748.59 | 32° 3' 18.748 N | 103° 38' 16.882 W |
| 16,000.0 | 90.00 | 180.05 | 12,459.0 | -3,166.9 | 1,426.7 | 384,416.12 | 756,748.50 | 32° 3' 17.758 N | 103° 38' 16.890 W |
| 16,100.0 | 90.00 | 180.05 | 12,459.0 | -3,266.9 | 1,426.6 | 384,316.13 | 756,748.41 | 32° 3' 16.768 N | 103° 38' 16.899 W |
| 16,200.0 | 90.00 | 180.05 | 12,459.0 | -3,366.9 | 1,426.5 | 384,216.13 | 756,748.31 | 32° 3' 15.779 N | 103° 38' 16.907 W |
| 16,300.0 | 90.00 | 180.05 | 12,459.0 | -3,466.9 | 1,426.4 | 384,116.14 | 756,748.22 | 32° 3' 14.789 N | 103° 38' 16.916 W |
| 16,400.0 | 90.00 | 180.05 | 12,459.0 | -3,566.9 | 1,426.3 | 384,016.14 | 756,748.13 | 32° 3' 13.800 N | 103° 38' 16.924 W |
| 16,500.0 | 90.00 | 180.05 | 12,459.0 | -3,666.9 | 1,426.2 | 383,916.14 | 756,748.04 | 32° 3' 12.810 N | 103° 38' 16.933 W |
| 16,600.0 | 90.00 | 180.05 | 12,459.0 | -3,766.9 | 1,426.1 | 383,816.15 | 756,747.95 | 32° 3' 11.821 N | 103° 38' 16.941 W |
| 16,700.0 | 90.00 | 180.05 | 12,459.0 | -3,866.9 | 1,426.0 | 383,716.15 | 756,747.86 | 32° 3' 10.831 N | 103° 38' 16.950 W |
| 16,800.0 | 90.00 | 180.05 | 12,459.0 | -3,966.9 | 1,425.9 | 383,616.15 | 756,747.76 | 32° 3' 9.842 N | 103° 38' 16.958 W |
| 16,900.0 | 90.00 | 180.05 | 12,459.0 | -4,066.9 | 1,425.8 | 383,516.16 | 756,747.67 | 32° 3' 8.852 N | 103° 38' 16.967 W |
| 17,000.0 | 90.00 | 180.05 | 12,459.0 | -4,166.9 | 1,425.7 | 383,416.16 | 756,747.58 | 32° 3' 7.863 N | 103° 38' 16.976 W |
| 17,100.0 | 90.00 | 180.05 | 12,459.0 | -4,266.9 | 1,425.6 | 383,316.17 | 756,747.49 | 32° 3' 6.873 N | 103° 38' 16.984 W |
| 17,200.0 | 90.00 | 180.05 | 12,459.0 | -4,366.9 | 1,425.6 | 383,216.17 | 756,747.40 | 32° 3' 5.884 N | 103° 38' 16.993 W |
| 17,300.0 | 90.00 | 180.05 | 12,459.0 | -4,466.9 | 1,425.5 | 383,116.17 | 756,747.30 | 32° 3' 4.894 N | 103° 38' 17.001 W |
| 17,400.0 | 90.00 | 180.05 | 12,459.0 | -4,566.9 | 1,425.4 | 383,016.18 | 756,747.21 | 32° 3' 3.905 N | 103° 38' 17.010 W |
| 17,500.0 | 90.00 | 180.05 | 12,459.0 | -4,666.9 | 1,425.3 | 382,916.18 | 756,747.12 | 32° 3' 2.915 N | 103° 38' 17.018 W |
| 17,600.0 | 90.00 | 180.05 | 12,459.0 | -4,766.9 | 1,425.2 | 382,816.19 | 756,747.03 | 32° 3' 1.926 N | 103° 38' 17.027 W |
| 17,633.8 | 90.00 | 180.05 | 12,459.0 | -4,800.7 | 1,425.2 | 382,782.40 | 756,747.00 | 32° 3' 1.591 N | 103° 38' 17.030 W |

**Design Targets**

| Target Name<br>- hit/miss target<br>- Shape | Dip Angle (°) | Dip Dir. (°) | TVD (usft) | +N/-S (usft) | +E/-W (usft) | Northing (usft) | Easting (usft) | Latitude | Longitude |
|---|---|---|---|---|---|---|---|---|---|
| Mesa #74H BHL<br>- plan hits target center<br>- Point | 0.00 | 0.00 | 12,459.0 | -4,800.7 | 1,425.2 | 382,782.40 | 756,747.00 | 32° 3' 1.591 N | 103° 38' 17.030 W |

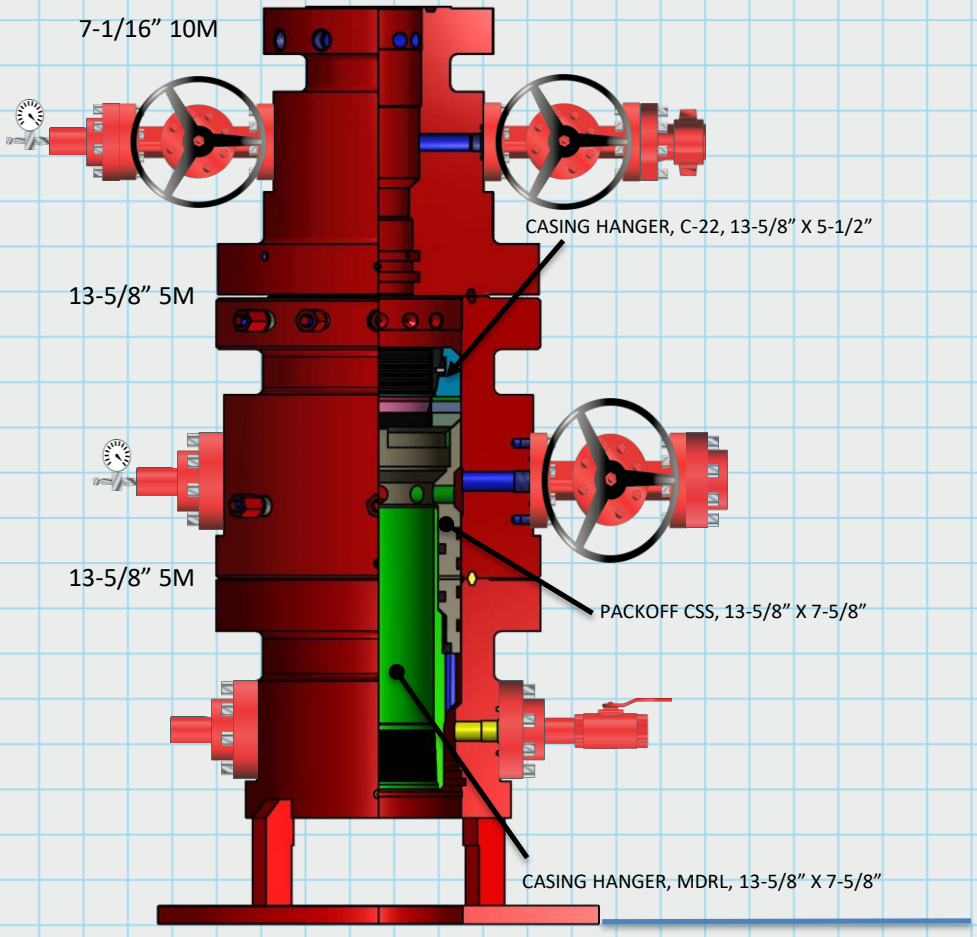
BTA

# 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

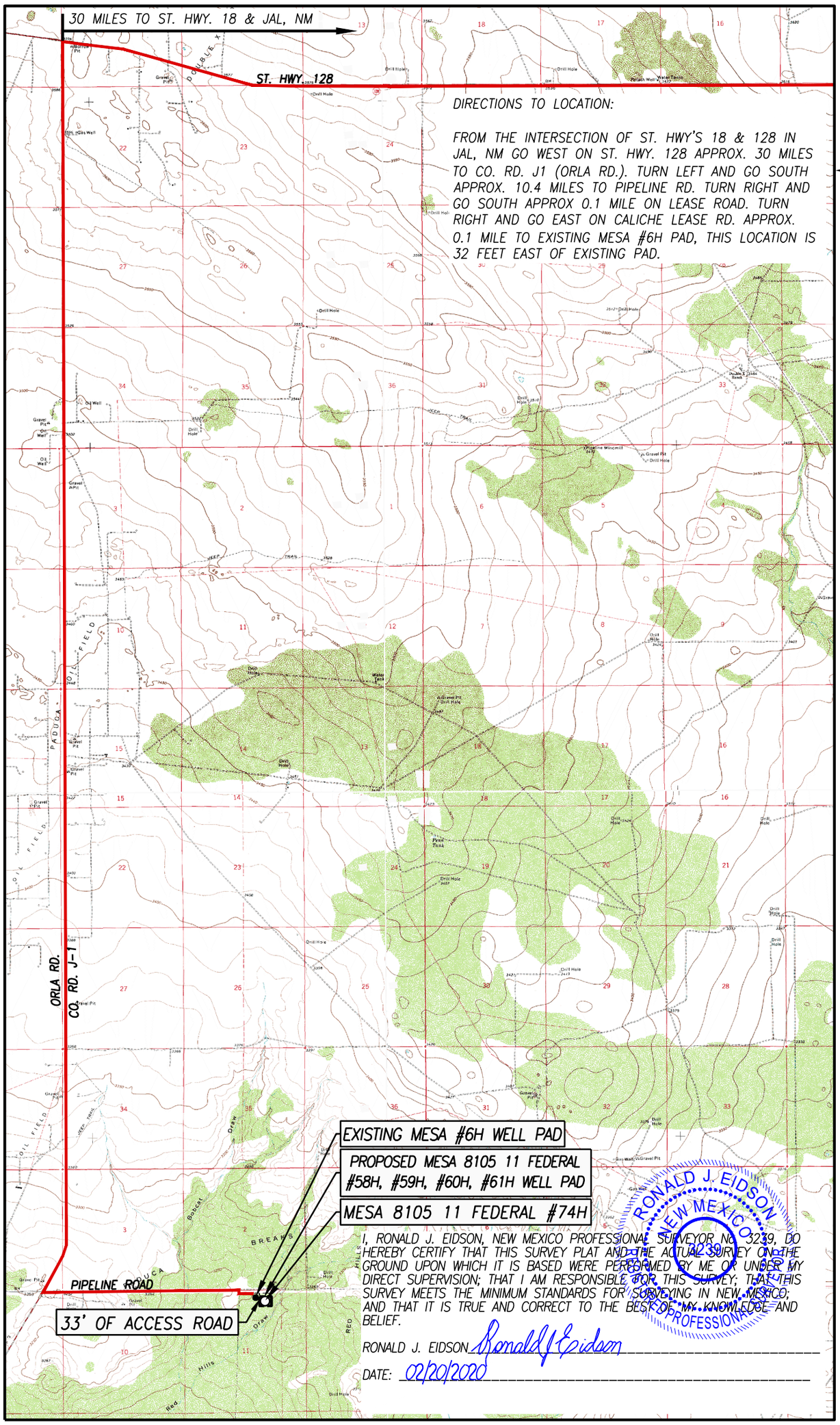



# 10-3/4” SOW x 7-5/8” x 5-1/2”

McClinton Energy GROUP

QUALITY SERVICE
QUALITY PRODUCTS
QUALITY PERSONNEL

# VICINITY, TOPOGRAPHIC AND ACCESS ROAD MAP




SEC. 11 TWP. 26-S RGE. 32-E
COUNTY LEA STATE NEW MEXICO
DESCRIPTION 490' FNL & 1730' FEL
ELEVATION 3251'
OPERATOR BTA OIL PRODUCERS, LLC
LEASE MESA 8105 11 FEDERAL
U.S.G.S. TOPOGRAPHIC MAP
PADUCA BREAKS EAST, N.M. SURVEY N.M.P.M.

CONTOUR INTERVAL: PADUCA BREAKS SW, N.M. – 10'
BELL, N.M. – 10', PADUCA BREAKS EAST, N.M. – 10'
SCALE: 1" = 5280'

PROVIDING SURVEYING SERVICES
SINCE 1946
JOHN WEST SURVEYING COMPANY
412 N. DAL PASO HOBBS, N.M. 88240
(575) 393-3117 www.jwsc.biz
TBPLS# 10021000

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 |
|---|---|---|
| | | WC-025 ; Upper Wolfcamp |

| Property Code | Property Name | Well Number |
|---|---|---|
| | MESA 8105 11 FEDERAL | 74H |

| OGRID No. | Operator Name | Elevation |
|---|---|---|
| 260297 | BTA OIL PRODUCERS, LLC | 3251' |

Surface Location

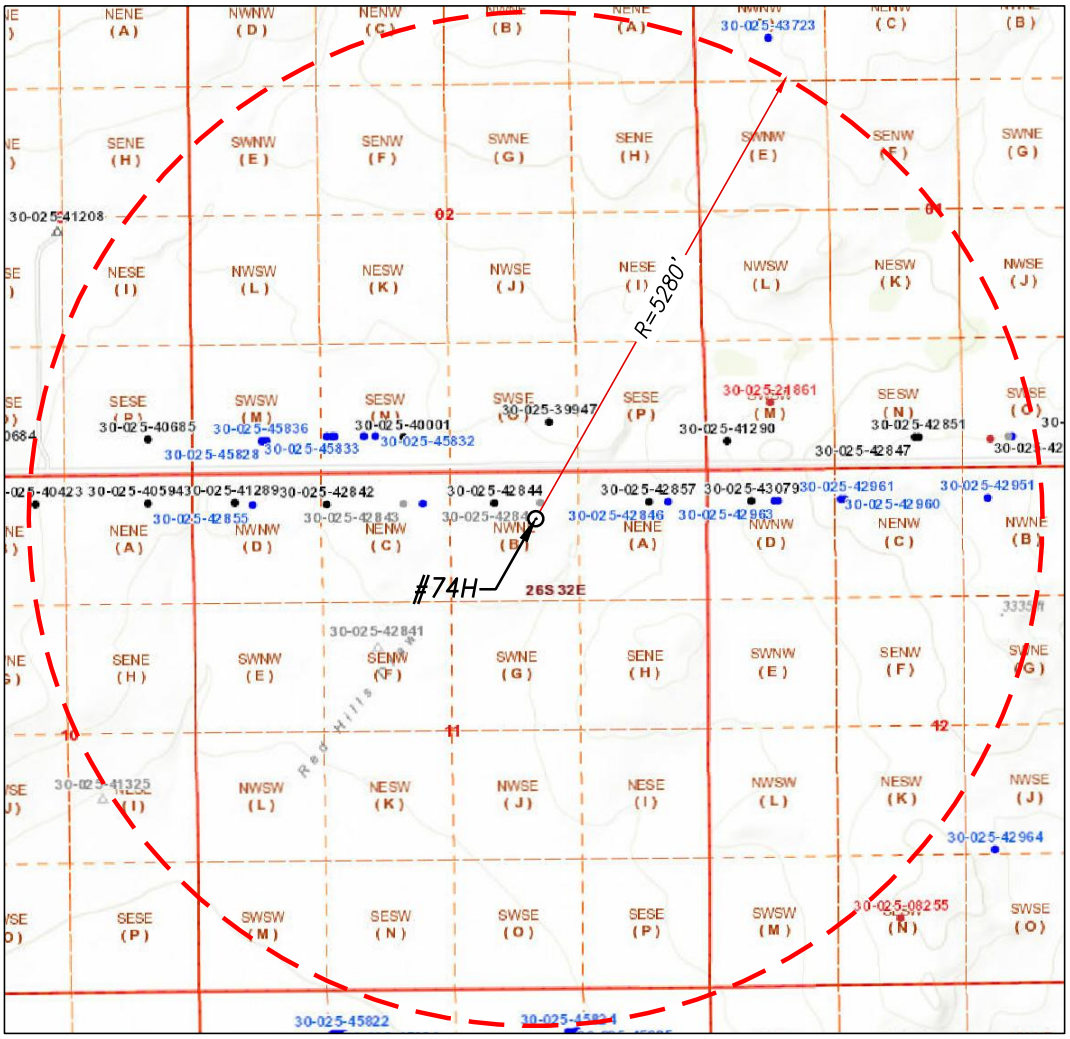
| UL or lot No. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---|---|---|---|---|---|---|---|---|---|
| B | 11 | 26-S | 32-E | | 490 | NORTH | 1730 | EAST | LEA |

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




2000 0 2000 Feet

Scale:1"=2000'

LEGEND

⊙ DENOTES PROPOSED WELL

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

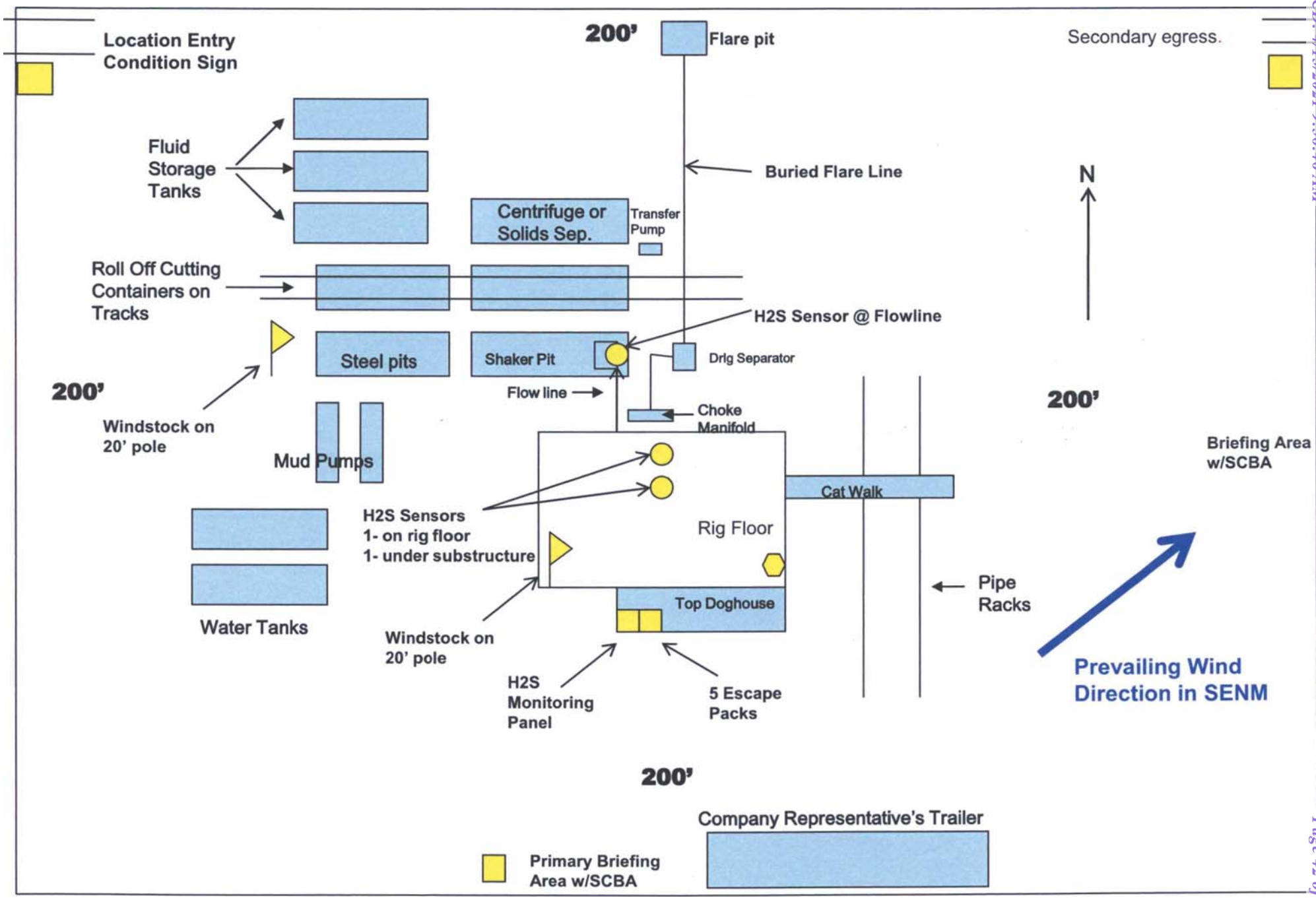
Certificate Number Gary G. Eidson 12641
Ronald J. Eidson 3239

ACK JWSC W.O.: 19.11.1276

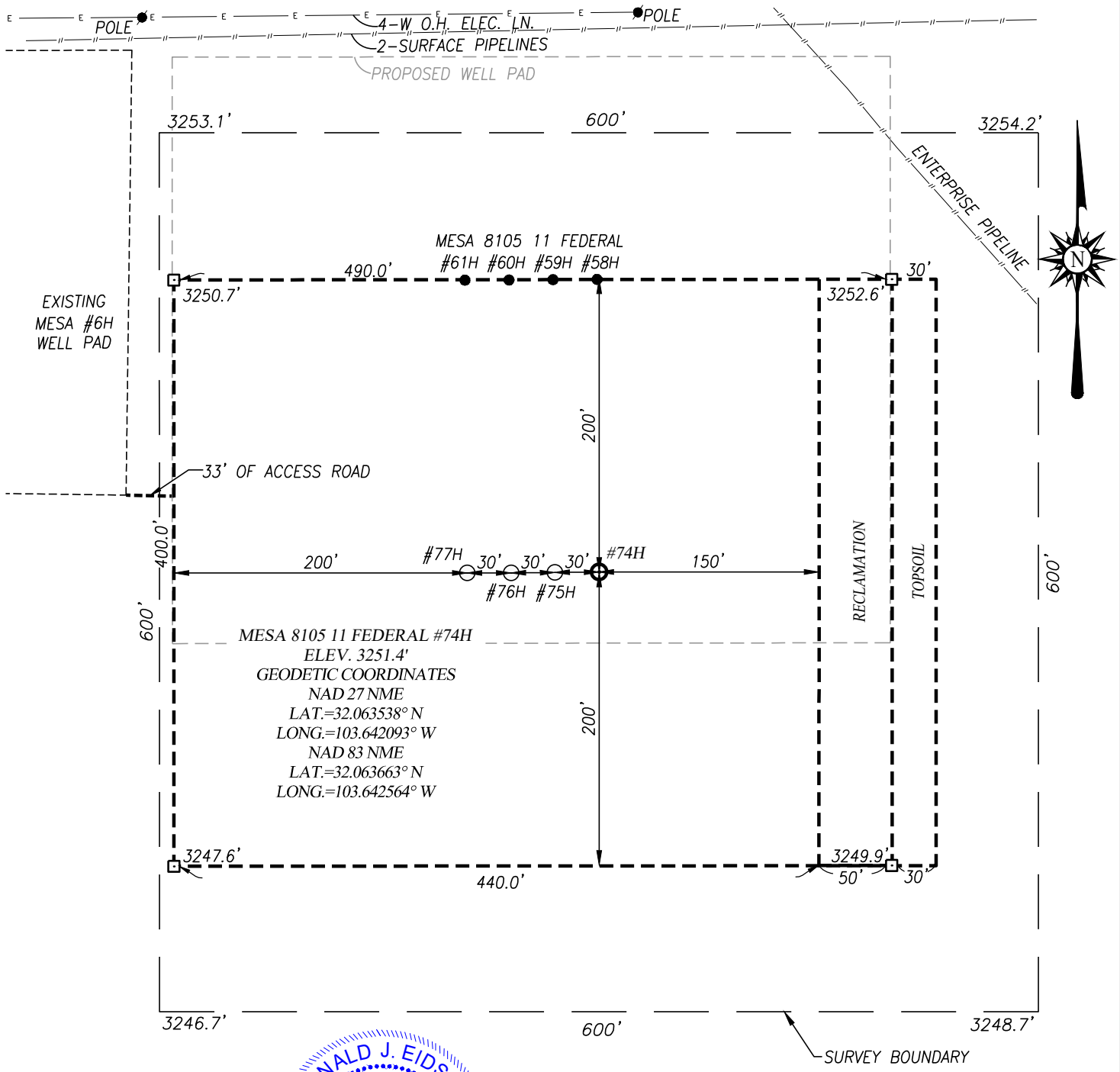
BTA OIL PRODUCERS, LLC
WATER TRANSPORTATION MAP
MESA 8105 FEDERAL WATER TRANSPORT MAP
SEC 1; T26S ; R32E (Water Pit is in SESE QUARTER QUARTER)
LEA COUNTY, NM

Released to Imaging: 4/27/2021 11:18:07 AM

Received by OCD: 4/15/2021 9:56:46 AM



# WELL SITE PLAN




NOTE:
SEE "TOPOGRAPHICAL AND ACCESS ROAD MAP" FOR ACCESS ROAD LOCATION.

100 0 100 200 Feet

Scale: 1"=100'

I, RONALD J. EIDSON, NEW MEXICO PROFESSIONAL SURVEYOR No. 3239, DO HEREBY CERTIFY THAT THIS SURVEY PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

RONALD J. EIDSON Ronald J Eidson

DATE: 02/20/2020

RONALD J. EIDSON NEW MEXICO 3239 PROFESSIONAL SURVEYOR

## BTA OIL PRODUCERS, LLC

MESA 8105 11 FEDERAL #74H WELL LOCATED 490 FEET FROM THE NORTH LINE AND 1730 FEET FROM THE EAST LINE OF SECTION 11, TOWNSHIP 26 SOUTH, RANGE 32 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO

PROVIDING SURVEYING SERVICES
SINCE 1946
JOHN WEST SURVEYING COMPANY
412 N. DAL PASO HOBBS, N.M. 88240
(575) 393-3117 www.jwsc.biz
TBPLS# 10021000

| | | | |
|---|---|---|---|
| Survey Date: 1/10/2020 | CAD Date:2/20/2020 | | Drawn By: ACK |
| W.O. No.:19111276 | Rev: . | Rel. W.O.: | Sheet 1 of 1 |

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

# PWD Data Report
04/14/2021

**APD ID:** 10400058330
**Submission Date:** 06/23/2020
**Operator Name:** BTA OIL PRODUCERS LLC
**Well Name:** MESA 8105 11 FEDERAL
**Well Number:** 74H
**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:** 74H

**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:** 74H

**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:** 74H

**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

04/14/2021

**APD ID:** 10400058330

**Submission Date:** 06/23/2020

**Operator Name:** BTA OIL PRODUCERS LLC

**Well Name:** MESA 8105 11 FEDERAL

**Well Number:** 74H

**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 |
|---|---|---|
| 30-025-48720 | 98158 | WC-025 ; Upper Wolfcamp |

| Property Code | Property Name | Well Number |
|---|---|---|
| 328173 | MESA 8105 11 FEDERAL | 74H |

| OGRID No. | Operator Name | Elevation |
|---|---|---|
| 260297 | BTA OIL PRODUCERS, LLC | 3251' |

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 | | 490 | 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

SURFACE LOCATION
GEODETIC COORDINATES
NAD 27 NME
Y=387525.5 N
X=714135.1 E
LAT.=32.063538° N
LONG.=103.642093° W

SURFACE LOCATION
GEODETIC COORDINATES
NAD 83 NME
Y=387582.9 N
X=755321.9 E
LAT.=32.063663° N
LONG.=103.642564° W

FIRST TAKE POINT
NAD 27 NME
Y=387923.8 N
X=715532.3 E
LAT.=32.064608° N
LONG.=103.637575° W

FIRST TAKE POINT
NAD 83 NME
Y=387981.2 N
X=756719.1 E
LAT.=32.064733° N
LONG.=103.638046° W

CORNER COORDINATES TABLE
NAD 27 NME
A - Y=388009.7 N, X=713187.5 E
B - Y=388017.7 N, X=714524.6 E
C - Y=388025.8 N, X=715861.6 E
D - Y=382669.1 N, X=714562.7 E
E - Y=382677.2 N, X=715890.2 E

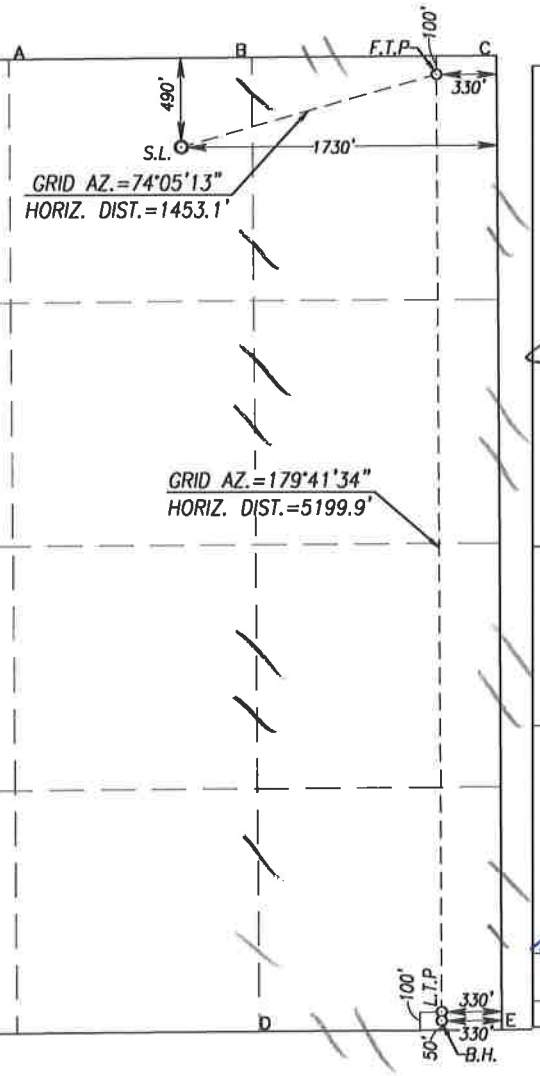
CORNER COORDINATES TABLE
NAD 83 NME
A - Y=388067.1 N, X=754374.2 E
B - Y=388075.2 N, X=755711.3 E
C - Y=388083.2 N, X=757048.4 E
D - Y=382726.4 N, X=755749.7 E
E - Y=382734.5 N, X=757077.2 E

LAST TAKE POINT
NAD 27 NME
Y=382775.1 N
X=715559.7 E
LAT.=32.050454° N
LONG.=103.637594° W

LAST TAKE POINT
NAD 83 NME
Y=382832.4 N
X=756746.7 E
LAT.=32.050579° N
LONG.=103.638064° W

BOTTOM HOLE LOCATION
NAD 27 NME
Y=382725.1 N
X=715560.0 E
LAT.=32.050317° N
LONG.=103.637594° W

BOTTOM HOLE LOCATION
NAD 83 NME
Y=382782.4 N
X=756747.0 E
LAT.=32.050442° N
LONG.=103.638064° W




## 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.: 19.11.1276

District I
1625 N. French Dr., Hobbs, NM 88240
District II
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
☐ 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 | 30-025-48720 | SEC 11 ; 26S ; 32E | 490 FNL 1730 FEL | 2000 | Flared | Battery Connected |
| FEDERAL 74H | | | | | | 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 24170

## CONDITIONS OF APPROVAL

| Operator: | OGRID: | Action Number: | Action Type: |
|---|---|---|---|
| BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX79701 | 260297 | 24170 | FORM 3160-3 |

| OCD Reviewer | Condition |
|---|---|
| pkautz | Will require a File As Drilled C-102 and a Directional Survey with the C-104 |
| 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 |