| LI der | | | - | | | m / | |
|--|-----------------------------------|--|---|--|--|---------------|--|
| m 3160-3 ane 2015) | | HOBBS | oco | FORM A OMB No Expires: Ja | APPROVED 0. 1004-0137 nuary 31, 2018 | (H) | |
| UNITED STATE DEPARTMENT OF THE I BUREAU OF LAND MAN | S NTERIOR AGEMENI | JUN O | 8 2019 8 2019 | 5. Lease Serial No. MNM015091 | | | |
| APPLICATION FOR PERMIT TO D | | REENT | EINE | 6. If Indian, Allotee | or Tribe Name | | |
| Ia. Type of work: 🖌 DRILL 🔤 R | EENTER | | | 7. If Unit or CA Agr | eement, Name and N | 0. | |
| b. Type of Well: C. Type of Completion: Hydraulic Fracturing Hydraulic Fracturing | ther | Multiple Zone | | 8. Lease Name and 7 ROJO 7811 22 FE 29H | Well No. DERAL COM 322775) | | |
| 2. Name of Operator BTA OIL PRODUCERS LLC (260297) | | | ~ | 9. APJ-Well No. 30-024 - | 46071 1 | / | |
| a. Address 104 S. Pecos Midland TX 79701 | 3b. Phone N (432)682-3 | Io. <i>(include area cod</i> 753 | le) | 10, Field and Pool, c BOBCAT DRAW / | UPPER WOLFCAN | SO FK | |
| Location of Well (Report location clearly and in accordance At surface SWSE / 420 FSL / 1340 FEL / LAT 32.1099 | with any State 935 / LONG - | requirements.*) 103.555985 | | 11. Sec., T. R. M. or SEC 22 / T255 / R | Blk. and Survey or A 33E / NMP | Area | |
| At proposed prod. zone NWNE / 100 FNL / 2260 FEL / L | AT 32.12302 | 22 / LONG -103.55 | 8962 | | | <u> </u> | |
| 4. Distance in miles and direction from nearest town or post off 21 miles | ice* | | | 12. County or Parish LEA | INM | | |
| 5. Distance from proposed* 50 feet location to nearest property or lease line, ft. (Also to nearest drig, unit line, if any) | 16. No of ac 840 | cres in lease | 17. Špaci 160 | ng Unit dedicated to the | nis well | | |
| 8. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 640 feet | 19. Propose 12680 feet | d Depth / 17630 feet | 20, BLM | WBIA Bond No. in file MB000849 | | | |
| 1. Elevations (Show whether DF, KDB, RT, GL, etc.) 3345 feet | 22. Approxi 03/15/2019 | mate date work will | start* | 23. Estimated durati 30 days | on | | |
| | 24. Attac | hments | | | | | |
| The following, completed in accordance with the requirements o as applicable) | f Onshore Oil | and Gas Order No. | l, and the l | Hydraulic Fracturing n | ule per 43 CFR 3162 | .3-3 | |
| Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest Syste SUPO must be filed with the appropriate Forest Service Office | em Lands, the | Bond to cover the Item 20 above). Operator certification Such other site specification | ne operation cation. pecific info | ns unless covered by an rmation and/or plans as | existing bond on file may be requested by | : (see the | |
| 25. Signature (Electronic Submission) | Name Samm | (Printed/Typed) ny Hajar / Ph: (432) |)682-3753 | 3 | Date 11/09/2018 | | |
| Title Regulatory Analyst | | | | | | | |
| Approved by (Signature) (Electronic Submission) | Name | (Printed/Typed) Layton / Ph: (575) | 234-5959 | | Date 05/24/2019 | | |
| itle Assistant Field Manager Lands & Minerals | Office | SBAD | | | | | |
| Application approval does not warrant or certify that the application pplicant to conduct operations thereon. Conditions of approval, if any, are attached. | nt holds legal (| or equitable title to the | hose rights | in the subject lease wh | hich would entitle the | | |
| Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, r of the United States any false, fictitious or fraudulent statements | nake it a crime or representat | e for any person kno ions as to any matter | wingly and within its | l willfully to make to a jurisdiction. | ny department or age | ency | |
| 5CA Rec 06/01/19 | | | -010 | KE 107 | 119 | | |

(Continued on page 2)



*(Instructions on page 2) Double Sided

Additional Operator Remarks

Location of Well

SHL: SWSE / 420 FSL / 1340 FEL / TWSP: 25S / RANGE: 33E / SECTION: 22 / LAT: 32.109935 / LONG: -103.555985 (TVD: 0 feet) MD: 0 feet)
 PPP: SWSE / 330 FSL / 2260 FEL / TWSP: 25S / RANGE: 33E / SECTION: 22 / LAT: 32.10969 / LONG: -103.558956 (TVD: 0 feet) L2248 feet, MD: 12302 feet)
 PPP: SWNE / 2551 FNL / 2118 FEL / TWSP: 25S / RANGE: 33E / SECTION: 22 / LAT: 32.116241 / LONG: -103.558498 (TVD: 12680 feet, MD: 15100 feet)
 BHL: NWNE / 100 FNL / 2260 FEL / TWSP: 25S / RANGE: 33E / SECTION: 22 / LAT: 32.123022 / LONGE L03.558962 (TVD: 12680 feet, MD: 15100 feet)

BLM Point of Contact

Name: Ciji Methola Title: GIS Support - Adjudicator Phone: 5752345924 Email: cmethola@blm.gov

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

| OPERATOR'S NAME: | BTA Oil Producers LLC |
|----------------------------|------------------------------------|
| LEASE NO.: | NMNM015091 |
| WELL NAME & NO.: | ROJO 7811 22 FEDERAL COM 29H |
| SURFACE HOLE FOOTAGE: | 420'/S & 1340'/E |
| BOTTOM HOLE FOOTAGE | 100'/N & 2260'/E |
| LOCATION: | Section 22, T.25 S., R.33 E., NMPM |
| COUNTY: | Lea County, New Mexico |

COA

| H2S | • Yes | No | / |
|----------------------|------------------|----------------|------------------|
| Potash | None | C Secretary | C R-111-P |
| Cave/Karst Potential | C Low | | 🕻 High |
| Variance | | 🗭 Flex Hose | C Other |
| Wellhead | Conventional | | Both |
| Other | | Capitan Reef | Г WIPP |
| Other | Fluid Filled | Cement Squeeze | Pilot Hole |
| Special Requirements | ✓ Water Disposal | COM | └ Unit |

A. HYDROGEN SULFIDE

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

B. CASING

- 1. The 13-3/8 inch surface casing shall be set at approximately 1160 feet (a minimum of 25 feet (Lea County) into the Rustler Anhydrite and above the salt) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of $\underline{8}$ hours or 500 pounds compressive strength, whichever is greater. (This is to

Page 1 of 8

- 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.

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

- The operator will submit a Communitization Agreement to the Carlsbad Field Office, 620 E Greene St. Carlsbad, New Mexico 88220, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. <u>When the Communitization Agreement number is known, it shall also be on the sign.</u>

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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.
- <u>Wait on cement (WOC) for Potash Areas:</u> 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 <u>24</u> hours. WOC time will be recorded in the driller's log.
- <u>Wait on cement (WOC) for Water Basin:</u> 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 <u>8 hours</u>. 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.

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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

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PECOS DISTRICT SURFACE USE CONDITIONS OF APPROVAL

| OPERATOR'S NAME: | BTA Oil Producers LLC |
|-----------------------|------------------------------------|
| WELL NAME & NO.: | ROJO 7811 22 FEDERAL COM 29H |
| SURFACE HOLE FOOTAGE: | 420'/S & 1340'/E |
| BOTTOM HOLE FOOTAGE | 100'/N & 2260'/E |
| LOCATION: | Section 22, T.25 S., R.33 E., NMPM |
| COUNTY: | Lea County, New Mexico |

TABLE OF CONTENTS

Standard Conditions of Approval (COA) apply to this APD. If any deviations to these standards exist or special COAs are required, the section with the deviation or requirement will be checked below.

| General Provisions | |
|---|---|
| Permit Expiration | |
| Archaeology, Paleontology, and Historical Sites | 5 |
| Noxious Weeds | |
| Special Requirements | |
| | |
| Construction | |
| | |

| Notification |
|-------------------------------|
| Topsoil |
| Closed Loop System |
| Federal Mineral Material Pits |
| Well Pads |
| Roads |
| load Section Diagram |

Road Section Diagram

] Production (Post Drilling)

Well Structures & Facilities

Interim Reclamation

Final Abandonment & Reclamation

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V. SPECIAL REQUIREMENT(S)

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Exclosure Fencing

The operator will install and maintain exclosure fencing for all open well cellars to prevent access to public, livestock, and large forms of wildlife before and after drilling operations until the pit is free of fluids and the operator initiates backfilling. (For examples of exclosure fencing design, refer to BLM's Oil and Gas Gold Book, Exclosure Fence Illustrations, Figure 1, Page 18.)

G. ON LEASE ACCESS ROADS

Road Width

The access road shall have a driving surface that creates the smallest possible surface disturbance and does not exceed fourteen (14) feet in width. The maximum width of surface disturbance, when constructing the access road, shall not exceed twenty-five (25) feet.

Surfacing

Surfacing material is not required on the new access road driving surface. If the operator elects to surface the new access road or pad, the surfacing material may be required to be removed at the time of reclamation.

Where possible, no improvements should be made on the unsurfaced access road other than to remove vegetation as necessary, road irregularities, safety issues, or to fill low areas that may sustain standing water.

The Authorized Officer reserves the right to require surfacing of any portion of the access road at any time deemed necessary. Surfacing may be required in the event the road deteriorates, erodes, road traffic increases, or it is determined to be beneficial for future field development. The surfacing depth and type of material will be determined at the time of notification.

Crowning

Crowning shall be done on the access road driving surface. The road crown shall have a grade of approximately 2% (i.e., a 1" crown on a 14' wide road). The road shall conform to Figure 1; cross section and plans for typical road construction.

Ditching

Ditching shall be required on both sides of the road.

Turnouts

Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

Drainage

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Proposed production facilities such as storage tanks and other vessels will have a secondary containment structure that is constructed to hold the capacity of 1.5 times the largest tank, plus freeboard to account for precipitation, unless more stringent protective requirements are deemed necessary.

Painting Requirement

All above-ground structures including meter housing that are not subject to safety requirements shall be painted a flat non-reflective paint color, <u>Shale Green</u> from the BLM Standard Environmental Color Chart (CC-001: June 2008).

VIII. INTERIM RECLAMATION

During the life of the development, all disturbed areas not needed for active support of production operations should undergo interim reclamation in order to minimize the environmental impacts of development on other resources and uses.

Within six (6) months of well completion, operators should work with BLM surface management specialists (Jim Amos: 575-234-5909) to devise the best strategies to reduce the size of the location. Interim reclamation should allow for remedial well operations, as well as safe and efficient removal of oil and gas.

During reclamation, the removal of caliche is important to increasing the success of revegetating the site. Removed caliche that is free of contaminants may be used for road repairs, fire walls or for building other roads and locations. In order to operate the well or complete workover operations, it may be necessary to drive, park and operate on restored interim vegetation within the previously disturbed area. Disturbing revegetated areas for production or workover operations will be allowed. If there is significant disturbance and loss of vegetation, the area will need to be revegetated. Communicate with the appropriate BLM office for any exceptions/exemptions if needed.

All disturbed areas after they have been satisfactorily prepared need to be reseeded with the seed mixture provided below.

Upon completion of interim reclamation, the operator shall submit a Sundry Notices and Reports on Wells, Subsequent Report of Reclamation (Form 3160-5).

IX. FINAL ABANDONMENT & RECLAMATION

At final abandonment, well locations, production facilities, and access roads must undergo "final" reclamation so that the character and productivity of the land are restored.

Earthwork for final reclamation must be completed within six (6) months of well plugging. All pads, pits, facility locations and roads must be reclaimed to a satisfactory revegetated, safe, and stable condition, unless an agreement is made with the landowner or BLM to keep the road and/or pad intact.

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| · · · · · · · · · · · · · · · · · · · | | | | | | | | |
|--|--------------------------|-----------------------------|------------------------------|--|--|--|--|--|
| U.S. Department of the Interior BUREAU OF LAND MANAGEMENT | | 06/03/2019 | | | | | | |
| APD ID: 10400035984 | Submiss | Submission Date: 11/09/2018 | | | | | | |
| Operator Name: BTA OIL PRODUCERS LLC | | | | | | | | |
| Well Name: ROJO 7811 22 FEDERAL COM | Well Nun | n ber: 29H | Show Final Text | | | | | |
| Well Type: OIL WELL | Well Wor | k Type: Drill | | | | | | |
| | | |) | | | | | |
| Section 1 - General | | | | | | | | |
| APD ID: 10400035984 | Tie to previous NOS? | 10400030896 | Submission Date: 11/09/2018 | | | | | |
| BLM Office: CARLSBAD | User: Sammy Hajar | Title | : Regulatory Analyst | | | | | |
| Federal/Indian APD: FED | Is the first lease penet | rated for productio | on Federal or Indian? FED | | | | | |
| Lease number: NMNM015091 | Lease Acres: 840 | | | | | | | |
| Surface access agreement in place? | Allotted? | Reservation: | | | | | | |
| Agreement in place? NO | Federal or Indian agre | ement: | | | | | | |
| Agreement number: | | | | | | | | |
| Agreement name: | | | | | | | | |
| Keep application confidential? YES | | | | | | | | |
| Permitting Agent? NO | APD Operator: BTA O | L PRODUCERS LL | С | | | | | |
| Operator letter of designation: | | | | | | | | |
| | | | | | | | | |
| F | 7 | | | | | | | |
| Operator Info | | | | | | | | |
| Operator Organization Name: BTA OIL PRO | DUCERS LLC | | | | | | | |
| Operator Address: 104 S. Pecos | | Zip: 79701 | | | | | | |
| Operator PO Box: | | | | | | | | |
| Operator City: Midland State: T | X | | | | | | | |
| Operator Phone: (432)682-3753 | | | | | | | | |
| Operator Internet Address: | | | | | | | | |
| Section 2 - Well Informat | ion | | | | | | | |
| Well in Master Development Plan? NO | Master Devel | opment Plan name | : | | | | | |
| Well in Master SUPO? NO | Master SUPC |) name: | | | | | | |
| Well in Master Drilling Plan? NO | Master Drillin | ng Plan name: | | | | | | |
| Well Name: ROJO 7811 22 FEDERAL COM | Well Number | : 29H | Well API Number: | | | | | |
| Field/Pool or Exploratory? Field and Pool | Field Name: | BOBCAT DRAW | Pool Name: UPPER WOLFCAMP | | | | | |

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

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

APD ID: 10400035984

Operator Name: BTA OIL PRODUCERS LLC

Well Name: ROJO 7811 22 FEDERAL COM

Well Type: OIL WELL

Section 1 - Geologic Formations

| Formation | | | True Vertical | Measured | | | Producing |
|-----------|----------------|-----------|---------------|----------|-------------|-------------------|-----------|
| ID | Formation Name | Elevation | Depth | Depth | Lithologies | Mineral Resources | Formation |
| 1 | QUATERNARY | 3345 | 0 | 0 | ALLUVIUM | NONE | No |
| 2 | RUSTLER | 2353 | 992 | 992 | | NONE | No |
| 3 | TOP SALT | 1787 | 1558 | 1558 | | NONE | No |
| 4 | BASE OF SALT | -1432 | 4777 | 4777 | : | NONE | No |
| 5 | DELAWARE | -1676 | 5021 | 5021 | | NATURAL GAS,OIL | No |
| 6 | BONE SPRING | -5794 | 9139 | 9139 | | NATURAL GAS,OIL | No |
| 7 | WOLFCAMP | -8903 | 12248 | 12248 | | NATURAL GAS,OIL | Yes |

06/03/2019

Show Final Text

Submission Date: 11/09/2018

Well Number: 29H

Well Work Type: Drill

Section 2 - Blowout Prevention

Pressure Rating (PSI): 10M

Rating Depth: 14000

Equipment: The blowout preventer equipment (BOP) shown in Exhibit A will consist of a (10M system) double ram type (10,000 psi WP) preventer and a bag-type (Hydril) preventer (5000 psi WP). Both units will be hydraulically operated and the ram type preventer will be equipped with blind rams on top and 5" drill pipe rams on bottom. The BOP's will be installed on the 13-3/8" surface casing and utilized continuously until total depth is reached. A 2" kill line and 3" choke line will be incorporated in the drilling spool below the ram-type BOP. A remote kill line will be used for the 10M system as per onshore order #2. Other accessory BOP equipment will include a Kelly cock, floor safety valve, choke lines, and choke manifold having a 10,000 psi WP rating. The 5M annular on the 10M system will be tested to 100% of rated working pressure. **Requesting Variance?** YES

Variance request: A Choke Hose Variance is requested. See attached test chart and spec. 5M annular variance requested.

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

Choke Diagram Attachment:

10M_choke_mannifold_20190408154723.pdf

Choke_Hose___Test_Chart_and_Specs_20190408154724.pdf

BOP Diagram Attachment:

Uperator Name: BIA OIL PRODUCERS LLC

Well Name: ROJO 7811 22 FEDERAL COM

Well Number: 29H

Casing Attachments

| J |
|---|
| Casing ID: 2 String Type: INTERMEDIATE |
| Inspection Document: |
| |
| Spec Document: |
| |
| Tapered String Spec: |
| |
| Casing Design Assumptions and Worksheet(s): |
| Rojo_29H_Casing_Assumption_20181109075003.JPG |
| |
| Inspection Document: |
| |
| Spec Document: |
| |
| Tapered String Spec: |
| |
| Casing Design Assumptions and Worksheet(s): |
| Rojo_29H_Casing_Assumption_20181109075010.JPG |
| |
| Casing ID: 4 String Type:LINER |
| Inspection Document: |
| |
| Spec Document: |
| |
| lapered String Spec: |
| Casing Design Assumptions and Worksheet/s). |
| vasing vesigii Assumptions and worksingelis). |
| Rojo_29H_Casing_Assumption_20181109075018.JPG |
| |
| |
| Section 4 - Cement |

Uperator Name: BTA UIL PRODUCERS LLC

Well Name: ROJO 7811 22 FEDERAL COM

Well Number: 29H

| Top Depth | Bottom Depth | Mud Type | Min Weight (Ibs/gal) | Max Weight (Ibs/gal) | Density (Ibs/cu ft) | Gel Strength (lbs/100 sqft) | Н | Viscosity (CP) | Salinity (ppm) | Fittration (cc) | Additional Characteristics |
|-----------|--------------|----------------------------|----------------------|----------------------|---------------------|-----------------------------|---|----------------|----------------|-----------------|----------------------------|
| 1040 | 5050 | OTHER : Saturated Brine | 10 | 10.2 | | | | | | | |
| 5050 | 1260 0 | OTHER : Cut Brine | 8.6 | 9.2 | | | | | | | |
| 1260 0 | 1268 0 | OIL-BASED MUD | 11 | 11.5 | | | | | | | |

Section 6 - Test, Logging, Coring

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

Drill Stem Tests will be based on geological sample shows.

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

CBL,GR,MUDLOG

Coring operation description for the well:

None planned

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 7583

Anticipated Surface Pressure: 4793.39

Anticipated Bottom Hole Temperature(F): 183

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

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards attachment:

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations plan:

Rojo_7811_27_Fed_Com___H2S_Equipment_Schematic_03_24_2017_20181105163321.pdf Rojo_7811_27_Fed_Com___H2S_Plan_03_24_2017_20181105163321.pdf



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



Well control plan for 10M BOPE with 5M annular

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

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





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

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 WELL:
 Rojo 7811 22 Fed Com #29H

 TVD:
 12680

 MD:
 17630

DRILLING PLAN

| Casing Program | | | | • • • • • • | | | · · | | | | | | | | |
|----------------|----------|-----------|---------|-------------|----------|-------------------|--------------|-------|-------|----------|-------|-----------------|------------------|-----------------|------------------------|
| Hole Size | Cag.Size | From (MD) | To (MD) | From (TVD) | To (TVD) | Tapered String | Weight (lba) | Grade | Conn. | Collapse | Burst | Body Tension | Joint Tension | Dry/ Buoyant | Mud Weight (ppg) |
| 17 1/2 | 13 3/8 | 0 | 1040 | 0 | 1040 | No | 54.5 | J-55 | STC | 2.5 | 8.1 | 15.0 | 9.1 | D: 7 | 8.3 |
| 12 1/4 | 9 5/8 | 0 | 5050 | 0 | 5050 | No | 40 | J-55 | LTC | 1.7 | 1.5 | 3.1 | 2.8 | סיז | 10 |
| 8 3/4 | 7 | 0 | 12720 | o | 12600 | No | 29 | P110 | LTC | 1.4 | 1.8 | 2.5 | 2.1 | Dry | 9.2 |
| e 1/8 | 4 1/2 | 12133 | 17830 | 12082 | 12680 | No | 13.5 | P110 | LTC | 1.4 | 2.6 | 2.5 | 2.0 | Dry | 11.5 |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |

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

 WELL:
 Rojo 7811 22 Fed Com #29H

 TVD:
 12680

 MD:
 17630

DRILLING PLAN

| Casing Pr | ogram | • | | - | ·· | ••• | | | | | | | | | |
|-----------|----------|-----------|---------|------------|----------|-------------------|--------------|-------|-------|----------|-------|-----------------|------------------|-----------------|------------------------|
| Hole Size | Cag.Size | From (MD) | To (MD) | From (TVD) | To (TVD) | Tapered String | Weight (lba) | Grade | Conn. | Collapse | Burst | Body Tension | Joint Tension | Dry/ Buoyant | Mud Weight (ppg) |
| 17 1/2 | 13 3/8 | 0 | 1040 | 0 | 1040 | No | 54.5 | J-55 | STC | 2.5 | 6.1 | 15.0 | 9.1 | נ ינ ו | 8.3 |
| 12 1/4 | 9 5/8 | 0 | 5050 | 0 | 5050 | No | 40 | J55 | LTC | 1.7 | 1.5 | 3.1 | 2.8 | Dry | 10 |
| 8 3/4 | 7 | 0 | 12720 | 0 | 12600 | No | 29 | P110 | LTC | 1.4 | 1.8 | 2.5 | 2.1 | Dry | 9.2 |
| 6 1/8 | 4 1/2 | 12133 | 17830 | 12082 | 12680 | No | 13.5 | P110 | LTC | 1.4 | 2.6 | 2.5 | 2.0 | Dry | 11.5 |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |

BTA OIL PRODUCERS LLC

HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

1. HYDROGEN SULFIDE TRAINING

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

- a. The hazards and characteristics of hydrogen sulfide (H₂S).
- b. The proper use and maintenance of personal protective equipment and life support systems.
- c. The proper use of H₂S detectors, alarms, warning systems, briefing areas, evacuation procedures, and prevailing winds.
- d. The proper techniques for first aid and rescue procedures.

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

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

There will be an initial training session just prior to encountering a known or probable H2S zone (within 3 days or 500 feet) and weekly H2S and well control drills for all personnel in each crew. The initial training session shall include a review of the site specific H2S Drilling Operations Plan and the Public Protection Plan. This plan shall be available at the well site. All personnel will be required to carry documentation that they have received the proper training.

2. <u>H₂S SAFETY EQUIPMENT AND SYSTEMS</u>

a.

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.

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:



BTA Planning Report - Geographic

| Database: Company: Project: Site: Well: Wellbore: Design: | EDM BTA C Lea C Rojo Rojo # Wellb Desig | 5000.1 Single Dil Producers, County, NM (N/ #29H ore #1 n #1 | User Db LLC AD 83) | | Local Co- TVD Refer MD Refer North Ref Survey Ca | ordinate Refe rence: ance: erence: alculation Met | rence: | Well Rojo #29H GL @ 3345.0usf GL @ 3345.0usf Grid Minimum Curvat | ure | |
|---|---|---|----------------------------------|-------------------------|--|---|---|--|---------------|---|
| Project | Lea Co | ounty, NM (NA | D 83), Lea Cou | unty, NM | | | | | | |
| Map System: Geo Datum: Map Zone: | US State North Ar New Me | e Plane 1983 nerican Datum xico Eastern Z | 1983 Ione | | System Da | tum: | Gn Us | ound Level | le factor | |
| Site | Rojo | | | | | | | | | |
| Site Position: From: Position Uncert | Ma _l zainty: | P 0 | Norti Easti .0 usft Slot I | ning: ng: Radius: | 399 783 | ,077.50 usft ,078.55 usft 13-3/16 " | Latitude: Longitude: Grid Converg | ence: | | 32° 5' 41.057 N 103° 33' 9.721 W 0.41 ° |
| Well | Rojo #2 | 29H | | | ····· | | | | | |
| Well Position | +N/-S +E/-W | | 0.0 usft N 0.0 usft E | orthing: asting: | | 404,598.8 | Dusft Lati Dusft Lon | itude: igitude: | | 32° 6' 35.768 N 103° 33' 21.548 W |
| Position Uncert | ainty | | 0.0 usft 🛛 🕅 | ellhead Eleva | ation: | 0.0 | 0 usft Gro | ound Level: | | 3,345.0 usft |
| Wellbore | Wellbo | ore #1 | | | | | <u></u> | | | |
| Magnetics | Mc | odel Name | Samp | le Date | Deciina (°) | ition | Dip A | ngle ') | Field | Strength |
| ······································ | | IGRF200510 |) | 12/31/2009 | | 7.73 | | 60.14 | | 48,726 |
| Design | Design | n #1 | | | | | | | | |
| Audit Notes: | | | | | | | | | | |
| Version: | | | Pha | se: | PROTOTYPE | Ti | e On Depth: | | 0.0 | |
| Vertical Section |): | | Depth From (T | VD) | +N/-S (usft) | + + | E/-W | Dire | ection (°) | |
| | | | 0.0 | | 0.0 | | 0.0 | 34 | 8.63 | |
| Plan Sections | | | <u> </u> | | | | | | | <u> </u> |
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Tum Rate (°/100usft) | TFO (°) | Target |
| 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 2,249.5 | 0.00 | 0.00 | 2,249.5 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 2,549.5 | 6.00 | 247.03 | 2,549.0 | -6.1 | -14.4 | 2.00 | 2.00 | 0.00 | 247.03 | |
| 11,808.8 | 6.00 | 247.03 | 11,/5/.5 | -303.9 _300.0 | -903.6 | 2.00 | -2 00 | 0.00 | 180.00 | |
| 12,100.0 | 0.00 | 0.00 | 12 107 0 | -390.0 | -920.0 | 2.00 | 0.00 | 0.00 | 0.00 | |
| 12 158 9 | | 0.00 | , | 000.0 | 020.0 | 0.00 | 0.00 | | | |
| 12,158.9 13.058.9 | 90.00 | 359.60 | 12.680.0 | 182.9 | -924.0 | 10.00 | 10.00 | 0.00 | 359.60 | |

BTA Planning Report - Geographic

TVD Reference:

MD Reference:

North Reference:

Local Co-ordinate Reference:

Survey Calculation Method:

Well Rojo #29H

GL @ 3345.0usft

GL @ 3345.0usft

Minimum Curvature

Grid

EDM 5000.1 Single User Db BTA Oil Producers, LLC Database: Company: Project: Lea County, NM (NAD 83) Rojo Rojo #29H Wellbore: Wellbore #1 Design: Design #1

Planned Survey

Site:

Well:

| Measured Depth | Inclination | Azimuth | Vertical Depth | +N/-S | +E/-W | Map Northing | Map Easting | | |
|-------------------|-------------|---------|-------------------|-----------------|-----------------|-----------------|----------------|-----------------|-------------------|
| (usn) | (°) | (°) | (usit) | (usft) | (usft) | (usit) | (ustt) | Latitude | Longitude |
| 5,300.0 | 6.00 | 247.03 | 5,284.4 | -118.3 | -279.2 | 404,480.47 | 781,742.15 | 32° 6' 34.617 N | 103° 33' 24.803 W |
| 5,400.0 | 6.00 | 247.03 | 5,383.8 | -122.4 | · -288.8 | 404,476.39 | 781,732.53 | 32° 6' 34.577 N | 103° 33' 24.916 W |
| 5,500.0 | 6.00 | 247.03 | 5,483.3 | -126.5 | -298.4 | 404,472.31 | 781,722.90 | 32° 6' 34.537 N | 103° 33' 25.028 W |
| 5,600.0 | 6.00 | 247.03 | 5,582.7 | -130.6 | -308.0 | 404,468.23 | 781,713.28 | 32° 6' 34.498 N | 103° 33' 25.140 W |
| 5,700.0 | 6.00 | 247.03 | 5,682.2 | -134.7 | -317.6 | 404,464.15 | 781,703.66 | 32° 6' 34.458 N | 103° 33' 25.252 W |
| 5,800.0 | 6.00 | 247.03 | 5,781.6 | -138.7 | -327.3 | 404,460.07 | 781,694.03 | 32° 6' 34.418 N | 103° 33' 25.365 W |
| 5,900.0 | 6.00 | 247.03 | 5,881.1 | -142.8 | -336.9 | 404,455.99 | 781,684.41 | 32° 6' 34.379 N | 103° 33' 25.477 W |
| 6,000.0 | 6.00 | 247.03 | 5,980.5 | -146.9 | -346.5 | 404,451.91 | 781,674.79 | 32° 6' 34.339 N | 103° 33' 25.589 W |
| 6,100.0 | 6.00 | 247.03 | 6,080.0 | -151.0 | -356.1 | 404,447.83 | 781,665.16 | 32° 6' 34.299 N | 103° 33' 25.701 W |
| 6,200.0 | 6.00 | 247.03 | 6,179.5 | -155.1 | -365.8 | 404,443.75 | 781,655.54 | 32° 6' 34.260 N | 103° 33' 25.813 W |
| 6,300.0 | 6.00 | 247.03 | 6,278.9 | -159.1 | -375.4 | 404,439.67 | 781,645.92 | 32° 6' 34.220 N | 103° 33' 25.926 W |
| 6,400.0 | 6.00 | 247.03 | 6,378.4 | -163.2 | -385.0 | 404,435.59 | 781,636.29 | 32° 6' 34.180 N | 103° 33' 26.038 W |
| 6,500.0 | 6.00 | 247.03 | 6,477.8 | -167.3 | -394.6 | 404,431.51 | 781,626.67 | 32° 6' 34.141 N | 103° 33' 26.150 W |
| 6,600.0 | 6.00 | 247.03 | 6,577.3 | -171.4 | -404.3 | 404,427.43 | 781,617.04 | 32° 6' 34.101 N | 103° 33' 26.262 W |
| 6,700.0 | 6.00 | 247.03 | 6,676.7 | -175.5 | -413.9 | 404,423.35 | 781,607.42 | 32° 6' 34.061 N | 103° 33' 26.375 W |
| 6,800.0 | 6.00 | 247.03 | 6,776.2 | -179.5 | -423.5 | 404,419.27 | 781,597.80 | 32° 6' 34.022 N | 103° 33' 26.487 W |
| 6,900.0 | 6.00 | 247.03 | 6,875.6 | -183.6 | -433.1 | 404,415.19 | 781,588.17 | 32° 6' 33.982 N | 103° 33' 26.599 W |
| 7,000.0 | 6.00 | 247.03 | 6,975.1 | -187.7 | -442.8 | 404,411.11 | 781,578.55 | 32° 6' 33.942 N | 103° 33' 26.711 W |
| 7,100.0 | 6.00 | 247.03 | 7,074.5 | -191.8 | -452.4 | 404,407.03 | 781,568.93 | 32° 6' 33,903 N | 103° 33' 26.823 W |
| 7,200.0 | 6.00 | 247.03 | 7,174.0 | -195.9 | -462.0 | 404,402,95 | 781,559.30 | 32° 6' 33,863 N | 103° 33' 26.936 W |
| 7,300.0 | 6.00 | 247.03 | 7,273.4 | -199.9 | -471.6 | 404,398.87 | 781,549.68 | 32° 6' 33.823 N | 103° 33' 27.048 W |
| 7,400.0 | 6.00 | 247.03 | 7,372.9 | -204.0 | -481.3 | 404,394,79 | 781,540.06 | 32° 6' 33.783 N | 103° 33' 27,160 W |
| 7,500.0 | 6.00 | 247.03 | 7.472.3 | -208.1 | -490.9 | 404,390,71 | 781,530,43 | 32° 6' 33.744 N | 103° 33' 27.272 W |
| 7,600.0 | 6.00 | 247.03 | 7.571.8 | -212.2 | -500.5 | 404.386.64 | 781,520,81 | 32° 6' 33 704 N | 103° 33' 27 385 W |
| 7,700.0 | 6.00 | 247.03 | 7.671.2 | -216.2 | -510.1 | 404,382,56 | 781.511.19 | 32° 6' 33 664 N | 103° 33' 27 497 W |
| 7.800.0 | 6.00 | 247.03 | 7 770 7 | -220.3 | -519.7 | 404 378 48 | 781 501 56 | 32° 6' 33 625 N | 103° 33' 27 609 W |
| 7,900.0 | 6.00 | 247.03 | 7 870 1 | -224.4 | -529.4 | 404 374 40 | 781 491 94 | 32° 6' 33 585 N | 103° 33' 27 721 W |
| 8,000.0 | 6.00 | 247.03 | 7 969 6 | -228 5 | -539.0 | 404,370,32 | 781 482 31 | 32° 6' 33 545 N | 103 33 27.721 W |
| 8,100.0 | 6.00 | 247.03 | 8 069 0 | -232.6 | -548.6 | 404 366 24 | 781 472 69 | 32° 6' 33 506 N | 103 33 27.004 W |
| 8 200 0 | 6.00 | 247.03 | 8 168 5 | -236.6 | -558.2 | 404 362 16 | 781 463 07 | 32° 6' 33 466 N | 103 33 27.340 W |
| 8,300,0 | 6.00 | 247.00 | 8 268 0 | -200.0 | -567.9 | 404,302.10 | 781 453 44 | 32 0 33.400 N | 103 33 20.030 W |
| 8 400 0 | 6.00 | 247.03 | 8 367 4 | -240.7 | -577.5 | 404,350.00 | 781 443 82 | 32 0 33.420 N | 103 33 20.170 99 |
| 8 500 0 | 6.00 | 247.03 | 8 466 9 | -244.0 | -587.1 | 404,334.00 | 781 434 20 | 32 0 33.307 N | 103 33 20.202 W |
| 8,600,0 | 6.00 | 247.03 | 9,400.3 | -240.9 | -507.1 | 404,345.52 | 701,434.20 | 32 0 33.347 N | 103 33 20.395 W |
| 8 700 0 | 6.00 | 247.03 | 8,500.3 | -253.0 | -590.7 | 404,345.04 | 701,424.57 | 32 0 33.307 N | 103 33 20.307 99 |
| 8 800 0 | 6.00 | 247.03 | 8 765 2 | -257.0 | -000.4 | 404,341.70 | 781 405 33 | 32 0 33.200 N | 103 33 20.019 W |
| 8 900 0 | 6.00 | 247.03 | 8 864 7 | -201.1 | -010.0 | 404,337.00 | 781 395 70 | 32 0 33.220 N | 103 33 20.731 99 |
| 9,900.0 | 6.00 | 247.03 | 8,004.7 | -205.2 | -023.0 | 404,333.00 | 701,395.70 | 32 0 33.100 N | 103 33 20.044 99 |
| 9,000.0 | 6.00 | 247.03 | 0,904.1 | -209.3 | -035.2 | 404,329.32 | 701,300.00 | 32 0 33.149 N | 103 33 20.900 VV |
| 9,100.0 | 6.00 | 247.03 | 9,003.0 | -2/3.4 277 A | -044.9 654.5 | 404,325.44 | 701,370.43 | 32 0 33.109 N | 103 33 29.000 W |
| 9,200.0 | 6.00 | 247.03 | 9,103.0 | -211.4 | -034.5 | 404,321.30 | 701,300.03 | 32 6 33.069 N | 103" 33 29.160 W |
| 9,300.0 | 6.00 | 247.03 | 9,202.5 | -201.5 | -004.1 | 404,317.20 | 701,337.21 | 32° 6 33.029 N | 103° 33 29.292 W |
| 9,400.0 | 6.00 | 247.03 | 9,301.9 | -203.0 | -073.7 | 404,313.20 | 701,347.30 | 32" 6 32.990 N | 103° 33 29.405 W |
| 9,500.0 | 6.00 | 247.03 | 9,401.4 | -209.7 | -003.4 | 404,309.12 | 701,337.90 | 32 6 32.950 N | 103° 33° 29.517 W |
| 9,600.0 | 6.00 | 247.03 | 9,560.8 | -293.8 | -693.0 | 404,305.04 | 781,328.34 | 32° 6' 32.910 N | 103° 33' 29.629 W |
| 9,700.0 | 6.00 | 247.03 | 9,660.3 | -297.8 | -702.6 | 404,300.96 | /81,318./1 | 32° 6' 32.871 N | 103° 33' 29.741 W |
| 9,800.0 | 6.00 | 247.03 | 9,759.7 | -301.9 | -/12.2 | 404,296.88 | 781,309.09 | 32° 6' 32.831 N | 103° 33' 29.854 W |
| 9,900.0 | 6.00 | 247.03 | 9,859.2 | -306.0 | -721.8 | 404,292.81 | 781,299.47 | 32° 6' 32.791 N | 103° 33' 29.966 W |
| 10,000.0 | 6.00 | 247.03 | 9,958.6 | -310.1 | -731.5 | 404,288.73 | 781,289.84 | 32° 6' 32.752 N | 103° 33' 30.078 W |
| 10,100.0 | 6.00 | 247.03 | 10,058.1 | -314.2 | -741.1 | 404,284.65 | 781,280.22 | 32° 6' 32.712 N | 103° 33' 30.190 W |
| 10,200.0 | 6.00 | 247.03 | 10,157.5 | -318.2 | -750.7 | 404,280.57 | 781,270.60 | 32° 6' 32.672 N | 103° 33' 30.303 W |
| 10,300.0 | 6.00 | 247.03 | 10,257.0 | -322.3 | -760.3 | 404,276.49 | 781,260.97 | 32° 6' 32.633 N | 103° 33' 30.415 W |
| 10,400.0 | 6.00 | 247.03 | 10,356.4 | -326.4 | -770.0 | 404,272.41 | 781,251.35 | 32° 6' 32.593 N | 103° 33' 30.527 W |
| 10,500.0 | 6.00 | 247.03 | 10,455.9 | -330.5 | -779.6 | 404,268.33 | 781,241.72 | 32° 6' 32.553 N | 103° 33' 30.639 W |
| 10,600.0 | 6.00 | 247.03 | 10,555.4 | -334.6 | -789.2 | 404,264.25 | 781,232.10 | 32° 6' 32.514 N | 103° 33' 30.751 W |
| 10,700.0 | 6.00 | 247 03 | 10 654 8 | -338.6 | -798 8 | 404 260 17 | 781 222 48 | 32° 6' 32 474 N | 103° 33' 30 864 W |

11/1/2018 3:40:05PM

COMPASS 5000.1 Build 72

BTA Planning Report - Geographic

| Database: | EDM 5000.1 Single User Db | Local Co-ordinate Reference: | Well Roio #29H |
|-----------|---------------------------|------------------------------|-------------------|
| Company: | BTA Oil Producers, LLC | TVD Reference: | GL @ 3345.0usft |
| Project: | Lea County, NM (NAD 83) | MD Reference: | GL @ 3345.0usft |
| Site: | Rojo | North Reference: | Grid |
| Well: | Rojo #29H | 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 | 359.60 | 12,680.0 | 3,024.0 | -943.8 | 407,622.74 | 781,077.48 | 32° 7' 5.758 N | 103° 33' 32.268 W |
| 16,000.0 | 90.00 | 359.60 | 12,680.0 | 3,124.0 | -944.5 | 407,722.73 | 781,076.78 | 32° 7' 6.747 N | 103° 33' 32.268 W |
| 16,100.0 | 90.00 | 359.60 | 12,680.0 | 3,224.0 | -945.2 | 407,822.73 | 781,076.08 | 32° 7' 7.737 N | 103° 33' 32.268 W |
| 16,200.0 | 90.00 | 359.60 | 12,680.0 | 3,324.0 | -945.9 | 407,922.72 | 781,075.38 | 32° 7' 8.727 N | 103° 33' 32.268 W |
| 16,300.0 | 90.00 | 359.60 | 12,680.0 | 3,424.0 | -946.6 | 408,022.72 | 781,074.69 | 32° 7' 9.716 N | 103° 33' 32.268 W |
| 16,400.0 | 90.00 | 359.60 | 12,680.0 | 3,524.0 | -947.3 | 408,122.71 | 781,073.99 | 32° 7' 10.706 N | 103° 33' 32.267 W |
| 16,500.0 | 90.00 | 359.60 | 12,680.0 | 3,624.0 | -948.0 | 408,222.71 | 781,073.29 | 32° 7' 11.695 N | 103° 33' 32.267 W |
| 16,600.0 | 90.00 | 359.60 | 12,680.0 | 3,724.0 | -948.7 | 408,322.70 | 781,072.59 | 32° 7' 12.685 N | 103° 33' 32.267 W |
| 16,700.0 | 90.00 | 359.60 | 12,680.0 | 3,824.0 | -949.4 | 408,422.70 | 781,071.89 | 32° 7' 13.674 N | 103° 33' 32.267 W |
| 16,800.0 | 90.00 | 359.60 | 12,680.0 | 3,924.0 | -950.1 | 408,522.69 | 781,071.19 | 32° 7' 14.664 N | 103° 33' 32.266 W |
| 16,900.0 | 90.00 | 359.60 | 12,680.0 | 4,024.0 | -950.8 | 408,622.69 | 781,070.50 | 32° 7' 15.653 N | 103° 33' 32.266 W |
| 17,000.0 | 90.00 | 359.60 | 12,680.0 | 4,124.0 | -951.5 | 408,722.68 | 781,069.80 | 32° 7' 16.643 N | 103° 33' 32.266 W |
| 17,100.0 | 90.00 | 359.60 | 12,680.0 | 4,224.0 | -952.2 | 408,822.68 | 781,069.10 | 32° 7' 17.632 N | 103° 33' 32.266 W |
| 17,200.0 | 90.00 | 359.60 | 12,680.0 | 4,324.0 | -952.9 | 408,922.67 | 781,068.40 | 32° 7' 18.622 N | 103° 33' 32.265 W |
| 17,300.0 | 90.00 | 359.60 | 12,680.0 | 4,424.0 | -953.6 | 409,022.67 | 781,067.70 | 32° 7' 19.611 N | 103° 33' 32.265 W |
| 17,400.0 | 90.00 | 359.60 | 12,680.0 | 4,524.0 | -954.3 | 409,122.66 | 781,067.00 | 32° 7' 20.601 N | 103° 33' 32.265 W |
| 17,500.0 | 90.00 | 359.60 | 12,680.0 | 4,624.0 | -955.0 | 409,222.66 | 781,066.31 | 32° 7' 21.590 N | 103° 33' 32.265 W |
| 17,600.0 | 90.00 | 359.60 | 12,680.0 | 4,724.0 | -955.7 | 409,322.65 | 781,065.61 | 32° 7' 22.580 N | 103° 33' 32.264 W |
| 17,630.1 | 90.00 | 359.60 | 12,680.0 | 4,754.1 | -955.9 | 409,352.80 | 781,065.40 | 32° 7' 22.878 N | 103° 33' 32.264 W |
| Design Targets | <u> </u> | | | | | | | | |
| Target Name - hit/miss targ | jet Dip | Angie D | ip Dir. TVD | +N/-S | +E/-W | Northing | Easting | | |
| - Shape | | (") | (°) (usft) | (usft) | (usft) | (usft) | (usft) | Latitude | Longitude |
| Rojo #29H BHL - plan hits tar - Point | rget center | 0.00 | 0.00 12,680 | 0 4,754.1 | -955.9 | 409,352.80 | 781,065.40 | 32° 7' 22.878 N | 103° 33' 32.264 W |

Multi-Bowl System

13-5/8" x 9-5/8" x 7"

With 4-1/2" liner downhole



13-3/8" SOW

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Install the Casing Head

- 1. Examine the *WFT Casing Head*. Verify the following:
 - bore is clean and free of debris
 seal areas, threads and ring
 - grooves are clean and undamaged
 o-ring is properly installed, clean
 - and undamagedall peripheral equipment is intact and undamaged
- 2. Measure the pocket depth of the Casing Head and record this dimension.
- 3. Run the surface casing and cement as required.
- 4. Determine the required elevation of the Casing Head as required by the Drilling Supervisor.
- 5. Use the following calulation to determine the correct final cut location of the surface casing.
- X = Pocket Depth

Y = Overall Casing Head Height

Y-X = Distance from correct elevation point to surface casing cutoff height.

- 6. Lift the riser assembly high enough to rough cut the surface casing a minimum of 12" above the anticipated final cut location, if applicable.
- 7. Remove the spent portion of surface casing and the riser assembly and set aside.
- 8. Determine the correct elevation for the wellhead assembly.
- 9. Rough cut the surface casing a minimum of 12" above the final cut location.
- 10. Cut the conductor pipe a comfortable level below the final cut location of the surface casing.





11. Final cut the surface casing at the correct elevation.

NOTE: Ensure the cut on the surface casing is level as this will determine the orientation of the remainder of the wellhead equipment.

- 12. Bevel the surface casing with a 3/16" x 3/8" bevel and remove any sharp edges from the OD of the casing.
- 13. Break a 1/8" x 45° bevel on the ID of the surface casing.

| ₩ | WFT Casing Head (Slip on Weld with O-Bing) | Approved By: | Reviewed By: | RP-001 |
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Recommended Procedure for Field Welding Pipe to Wellhead Parts for Pressure Seal

1. Introduction and Scope. The following recommended procedure has been prepared with particular regard to attaining pressure-tight weld when attaching casing heads, flanges, etc., to casing. Although most of the high strength casing used (such as N-80) is not normally considered field weldable, some success may be obtained by using the following or similar procedures.

Caution: In some wellheads, the seal weld is also a structural weld and can be subjected to high tensile stresses. Consideration must therefore be given by competent authority to the mechanical properties of the weld and its heat affected zone.

a. The steels used in wellhead parts and in casing are high strength steels that are susceptible to cracking when welded. It is imperative that the finished weld and adjacent metal be free from cracks. The heat from welding also affects the mechanical properties. This is especially serious if the weld is subjected to service tension stresses.

b. This procedure is offered only as a recommendation. The responsibility for welding lies with the user and results are largely governed by the welder's skill. Weldability of the several makes and grades of casing varies widely, thus placing added responsibility on the welder. Transporting a qualified welder to the job, rather than using a less-skilled man who may be at hand, will, in most cases, prove economical. The responsible operating representative should ascertain the welder's qualifications and, if necessary, assure himself by instruction or demonstration, that the welder is able to perform the work satisfactorily.

- 2. Welding Conditions. Unfavorable welding conditions must be avoided or minimized in every way possible, as even the most skilled welder cannot successfully weld steels that are susceptible to cracking under adverse working conditions, or when the work is rushed. Work above the welder on the drilling floor should be avoided> The weld should be protected from dripping mud, water, and oil and from wind, rain, or other adverse weather conditions. The drilling mud, water, or other fluids must be lowered in the casing and kept at a low level until the weld has properly cooled. It is the responsibility of the user to provide supervision that will assure favorable working conditions, adequate time, and the necessary cooperation of the rig personnel.
- 3. Welding. The welding should be done by the shielded metal-arc or other approved process.

- Filler Metal. Filler Metals. For root pass, it's recommended 4. to use E6010, E6011 (AC), E6019 or equivalent electrodes. The E7018 or E7018-A1 electrodes may also be used for root pass operations but has the tendency to trap slag in tight grooves. The E6010, E6011 and E6019 offer good penetration and weld deposit ductility with relatively high intrinsic hydrogen content. Since the E7018 and E7018-A1 are less susceptible to hydrogen induced cracking, it is recommended for use as the filler metal for completion of the weld groove after the root pass is completed. The E6010, E6011 (AC), E6019, E7018 and E7018-A1 are classified under one of the following codes AWS A5.1 (latest edition): Mild Steel covered electrodes or the AWS A5.5 (latest edition): Low Alloy Steel Covered Arc-Welding Electrodes. The low hydrogen electrodes, E7018 and E7018-A1, should not be exposed to the atmosphere until ready for use. It's recommended that hydrogen electrodes remain in their sealed containers. When a job arises, the container shall be opened and all unused remaining electrodes to be stored in heat electrode storage ovens. Low hydrogen electrodes exposed to the atmosphere, except water, for more than two hours should be dried 1 to 2 hours at 600°F to 700 °F (316°C to 371 °C) just before use. It's recommended for any low hydrogen electrode containing water on the surface should be scrapped.
- 5. Preparation of Base Metal. The area to be welded should be dry and free of any paint, grease/oil and dirt. All rust and heat-treat surface scale shall be ground to bright metal before welding.
- 6. Preheating. Prior to any heating, the wellhead member shall be inspected for the presence of any o-rings or other polymeric seals. If any o-rings or seals are identified then preheating requires close monitoring as noted in paragraph 6a. Before applying preheat, the fluid should be bailed out of the casing to a point several inches (>6" or 150 mm) below the weld joint/location. Preheat both the casing and wellhead member for a minimum distance of three (3) inches on each side of the weld joint using a suitable preheating torch in accordance with the temperatures shown below in a and b. The preheat temperature should be checked by the use of heat sensitive crayons. Special attention must be given to preheating the thick sections of wellhead parts to be welded, to insure uniform heating and expansion with respect to the relatively thin casing.

a. Wellhead members containing o-rings and other polymeric seals have tight limits on the preheat and interpass temperatures. Those temperatures must be controlled at 200°F to 325°F or 93 °C to 160°C and closely monitored to prevent damage to the o-ring or seals.

b. Wellhead members not containing o-rings and other polymeric seals should be maintained at a preheat and interpass temperature of 400°F to 600°F or 200°C to 300°C.



WFT Casing Head (Slip on Weld with O-Ring) Running Procedure

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| Date: Oct 21, 2010 | Date: Oct 21, 2010 | Page 3 |

Weatherford[®] Wellhead Field Service Manual

WFT-SB Wellhead System Running Procedure

Publication: SM-11-1 Release Date: December 2014



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WFT Split Bowl (SB) Wellhead System



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- 14. Slowly and carefully lower the assembly over the casing stub until the stub bottoms in the casing socket.
- 15. Remove the test fitting from the casing head test port, and set aside.
- **16.** Ensure that the WFT-SB Casing Head/Spool Assembly is plumb and level.
- **17.** Weld and test the surface casing using the recommended welding procedure located in the Appendices Section of this manual.

Testing the BOP Stack

- 1. Examine the Test Plug/Running & Retrieval Tool. Verify the following:
- Elastomer seals, threads and plugs are intact and in good condition.
- Drill pipe threads are correct size, clean and in good condition.
- Install a new, appropriately sized ring gasket in the ring groove of the WFT-SB Spool and make up the BOP stack.



Immediately after make-up of the BOP stack and periodically during drilling of hole for the casing string, the BOP stack (flanged connections and rams) must be tested.

3. Orient the test plug with elastomer down/ACME threads up, and make up a joint of drill pipe to the test plug.



If pressure is to be supplied through the drill pipe, remove the pipe plug from the weep port.



Ensure that the test plug elastomer is down and Acme threads are up when testing.

- 4. Fully retract all lockscrews in the entire WFT-SB casing head/spool assembly.
- 5. Lubricate the test plug elastomer seal with a light oil or grease.
- 6. Lower the test plug through the BOP stack into the WFT-SB assembly, until it lands on the casing head load shoulder.



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- 4. Make-up a drill pipe joint to the Running Tool.
- 5. Thread Running Tool into the Long Bowl Protector, rotating two turns counterclockwise.
- Verify that all lockscrews in the WFT-SB Casing Head/Spool Assembly are fully retracted.
- Slowly lower the Running Tool/Bowl Protector Assembly through the BOP stack and into the WFT-SB Casing Head/Spool Assembly, until it lands securely on the casing head load shoulder.
- On WFT-SB Casing Spool, run in two Lockscrews ("snug" tight ONLY), 180 degrees apart, to hold Bowl Protector in place.



Do NOT over tighten the lockscrews, as this will cause damage to the Bowl Protector and the lockscrews.

- Remove the running tool from the bowl protector, by rotating the drill pipe clockwise two turns while lifting straight up.
- 10. Drill out and prepare to run the casing string per the drilling supervisor's instruction.

Retrieving the Bowl Protector after Drilling

- 1. Make-up the retrieval tool to the drill pipe, with Acme threads down.
- 2. Slowly lower the retrieval tool through the BOP Stack into the Bowl Protector.
- Rotate the retrieval Tool counterclockwise, two turns, to engage with bowl protector Acme threads.

4. Fully retract both lockscrews on the WFT-SB casing spool, and retrieve the bowl protector.



Ensure that all lockscrews in both the upper flange (casing spool) and lower flange (casing head) of the wellhead Assembly are fully retracted from well bore.

5. Remove the bowl protector and the running and retrieval tool from the drill floor.

Hanging off the Intermediate Casing

1. Run the intermediate casing as required and space out appropriately for the mandrel casing hanger.



If the intermediate casing becomes stuck and the mandrel casing hanger cannot be landed, refer to STAGE 4B.

- 2. Examine the WFT-SBD-SN Mandrel Casing Hanger. Verify the following:
 - Bore drift is correct size, clean and free of debris
 - All threads are clean and undamaged.
 - Flow-By flutes are clear and unobstructed.
 - Slick Neck seal area is clean and undamaged.
- 3. Examine the Mandrel Casing Hanger Running Tool. Verify the following:
 - Threads are clean and in good condition.
 - O-ring seals are clean and undamaged.
- Thread the mandrel hanger onto the last joint of casing to be run. Torque the connection thread to manufacturer's optimum "make-up" torque value.
- Make up a landing joint to the top of the running tool. Torque the connection to thread manufacturer's maximum "make-up" torque valve.



If Steps 4 and 5 were performed prior to being shipped to location, the hanger running tool should be backed off and made back up to ensure it will back off freely.

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- 16. Drain the BOP stack through the casing head side outlet valves.
- 17. Remove the pipe plug from the casing head flange port marked "Inspection Port."
- Visually verify that the running tool groove is in the center of the inspection port, and that the mandrel hanger has landed properly.
- 19. Reinstall the pipe plug and tighten securely.
- 20. Place a paint mark on the landing joint level with the rig floor, and cement casing as required.



If the casing is to be reciprocated during cementing, it is advisable to pick up the mandrel hanger a minimum of eight feet above the landing point. Place a mark on the landing joint, level with the rig floor, and then reciprocate above that point. If at any time resistance is felt, land the mandrel casing hanger immediately.

21. Retrieve the hanger running tool and landing joint by rotating landing joint clockwise (to the right), fourteen full turns.

Hanging off Intermediate Casing – Contingency Completion



The following procedure should ONLY be followed if the intermediate casing should become stuck in the hole. If the casing did NOT get stuck and is successfully hung off with the mandrel casing hanger, skip this stage.

- 1. Cement the intermediate casing in accordance with the program, taking returns through the flow-by flutes of the mandrel casing hanger as required.
- 2. Drain the casing head bowl through the side outlet.
- 3. Separate the WFT-SB casing spool from the casing head.
- 4. Pull up on WFT-SB casing spool and suspend it above casing head, high enough to install a WFT-21 Slip Type Casing Hanger.
- 5. Wash out as required.
- 6. Examine the WFT-21 slip type casing hanger. Verify the following:
 - Hanger is correct size, clean and undamaged.
 - Slip segments are sharp and in proper position.
 - All screws are in place.
- 7. Remove the latch screw to open the slip type hanger.
- 8. Place two boards on the casing head flange, against the casing, to support the hanger.
- 9. Wrap the hanger around the casing and replace the latch screw.
- 10. Prepare to lower the hanger into the casing head bowl.
- 11. Grease the WFT-21 slip type casing hanger body and remove the slip retaining cap screws.
- 12. Remove the boards and allow the hanger to slide down into the casing head.

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- 4. Examine the pack-off bushing running tool. Verify the following:
 - All elastomer seals are properly installed, clean and undamaged
 - Threads are clean, undamaged and free of debris
 - Bore and ports are clean and unobstructed.
- 5. Make-up a landing joint to the running tool and rack back assembly.
- 6. Run two or three stands of heavy weight drill pipe or collars in the hole and set floor slips.

NOTE

Use heavy weight drill pipe or drill collars. Weight required to push Pack-Off Bushing into Casing Head, over Mandrel Hanger slick neck, is approximately 14,000 lbs.



When lowering the drill pipe into the well, extreme caution must be taken to not damage the top of the mandrel hanger with the end of the drill pipe. It is recommended that the drill pipe be centralized to the hanger inner diameter, as closely as possible, when entering the hanger.

- 7. Carefully lower the bushing over the drill pipe and set it on top of floor slips.
- Make up the landing joint/running tool assembly to the drill pipe suspended in floor slips.
- Carefully pick up the pack-off bushing, thread the bushing into the running tool, then rotate the bushing approximately two turns counterclockwise (to the left), coming to a positive stop.

10. Lower the assembly through the BOP Stack and the WFT-SB spool assembly until the pack-off bushing lands on the casing hanger.



- 11. Verify, through inspection port that the pack-off bushing has landed properly after:
 - ensuring well is stable and no pressure buildup or mud flow is occurring.
 - drain BOP Stack through Casing Head side outlet valves.
 - remove Pipe Plug (1"-NPT) from Casing Head flange port marked "Inspection Port".
 - Check, to ensure, bottom of Lockscrew relief groove (painted white) on Support Bushing is at bottom of inspection port.
 - Reinstall Pipe Plug and tighten securely.
- 12. Fully run in all Casing Head Lockscrews (lower flange), in an alternating cross pattern.
- 13. Using two chain tongs, 180 apart, rotate Landing Joint/Running Tool approximately 2 turns clockwise (to the

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- 10. Locate the "SEAL TEST" fitting, slightly below and 90 degrees from the injection fittings. Remove the dust cap from this fitting.
- 11. Attach a test pump to the fitting.
- Pump clean test fluid between the P-Seals until a test pressure of 5,000 psi or 80% of casing collapse pressure is attained, whichever is lower.



Do NOT exceed 80% of casing collapse pressure when a slip type casing hanger and contingency pack-off bushing are utilized.

- 13. Hold test pressure for **15 minutes or** as required by the drilling supervisor.
- 14. If pressure drops, a leak has developed. Take the appropriate action per the following table:

| Leak Location | Cause | Action |
|--|-----------------------------|--|
| Into the bore of the casing head | Upper P- seal leaking | Bleed off pressure and re-inject plastic packing into leaking upper P- seal port. |
| Around the casing | Lower P- Seal leaking | Bleed off pressure and re-inject plastic packing into lower P-seal port. |

- 15. Repeat Steps 12 thru 14 until a satisfactory test is achieved.
- 16. Once a satisfactory test is achieved, carefully bleed off pressure and remove Test Pump.
- 17. Attach the bleeder tool to the test port fitting and open the tool to vent any remaining trapped pressure.



Always direct the bleeder tool port away from people and property.

18. Remove the bleeder tool and reinstall dust cap in Test Port Fitting.



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Running and Retrieving the Short Bowl Protector



Always use a bowl protector while drilling to protect the wellhead load shoulders from damage by the drill bit or rotating drill pipe. The bowl protector must be retrieved prior to running the casing string!

Running the Bowl Protector Prior to Drilling

- 1. Examine the short bowl protector. Verify the following:
 - Bore drift is correct size, is clean, in good condition, and free of debris.
 - Threads are correct size and type.
 - Threads are clean and in good condition.
- 2. Orient the bowl protector running tool with ACME threads down.

NOTE

The running tool is the same tool used for handling the long bowl protector.



Make sure that the left hand (LH) ACME threads are down prior to engaging the bowl protector running tool into the short bowl protector.

- 3. Make-up a drill pipe joint to the running tool.
- 4. Thread the running tool into the short bowl protector, rotating two turns counterclockwise (to the left).
- 5. Verify that all upper lockscrews in the WFT-SB spool assembly are fully retracted. Slowly lower the running

tool/bowl protector assembly through the BOP stack into the WFT-SB spool assembly until it lands on top of the pack-off bushing.



Do NOT retract the lower lockscrews located in the WFT-SB casing head, as this could allow the pack-off bushing to rise out of position.

 On the upper WFT-SB spool assembly, run in two lockscrews ("snug" tight ONLY), 180 degrees apart, to hold the bowl protector in place.



Do NOT over tighten the lockscrews, as this will cause damage to both the bowl protector and lockscrews.

- 7. Remove the running tool from the bowl protector, by rotating the drill pipe clockwise two turns while lifting straight up.
- 8. Drill out and prepare to the production casing string per the drilling supervisor's instructions.



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Installation of the Slip-Type Casing Hanger through the BOP Stack

- 1. Drain the WFT-SB casing head/spool assembly and BOP stack through the side outlet valves on the spool assembly.
- 2. Wash out the wellhead assembly until clean returns are seen.
- 3. Examine the slip type casing hanger. Verify the following:
 - slip segments are clean and undamaged
 - all screws are in place
 - Packing Element is clean and undamaged.



The packing element should not protrude past the casing hanger outer diameter. If the packing element does extend past the outer diameter, loosen the cap screws in the bottom of the hanger.

- 4. Place two boards across the rotary table, against the casing, to support the hanger.
- Disengage the spring loaded latch, open the hanger and wrap it around the casing, allowing the support boards to carry the weight.
- 6. Re-engage the casing hanger's spring loaded latch.
- 7. Measure the distance from the top flange of the WFT-SB casing spool to the drilling rig floor (RKB).
- 8. Measure out two lengths of soft-line cord (rope) to the same length as the

RKB measurement, and adding an additional 10 feet to each line.

- 9. Mark the soft line cord at the required length.
- 10. Install two eyebolts into the tapped holes in the top of the casing hanger slip segments, 180 degrees apart.
- 11. Securely tie the soft-line cord to the eyebolts.



Measuring the soft-line cord and installing the eyebolts into the hanger segments should be done offline.



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Installation of the Double-Studded Adapter (DSA) Flange

- 1. Examine the double studded adapter (DSA) Flange. Verify the following:
 - Ring grooves are clean and undamaged.
 - Stud threads are clean and undamaged.
- 2. Orient the DSA flange with the 10M side down.
- Thoroughly clean the mating grooves of the DSA flange and the WFT-SB spool assembly. Wipe lightly with oil or grease.



Excessive oil or grease will prevent a positive seal from forming.

- 4. Install a new appropriately sized ring gasket into the WFT-SB spool assembly groove.
- 5. Lift, while holding level, and carefully lower the DSA over the production casing stub until it lands on the ring gasket.
- 6. Make-up the flange connection with appropriate nuts, tightening in alternate cross pattern, as required by API 6A.
- 7. Fill the void area in the DSA around the production casing with a light weight oil.
- 8. Continue filling with a light weight oil to the top of the DSA.



Do NOT allow oil to run into the ring groove. This may prevent a positive seal from forming.



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Testing the BOP



Immediately after the make-up of the BOP Stack and periodically during drilling of hole for the next string, the BOP stack (flanged connections and rams) must be tested.

- 1. Examine the test plug. Verify that:
 - O-ring seals and plugs are properly installed, clean and undamaged.
 - All threads are clean and undamaged.
- 2. Orient the test plug with O-ring seals up and drill pipe pin connection down.
- 3. Make up a joint of drill pipe to the top of the test plug.



If pressure is to be supplied through the drill pipe, the pipe plug should be removed from the weep port.

- 4. Fully retract all lockscrews on the WFT-TCM tubing spool assembly.
- 5. Open the side outlet valves on the tubing spool.
- 6. Wipe the test plug O-ring seals with a light oil or grease.
- 7. Lower the test plug through the BOP until it lands on the tubing spool load shoulder.
- 8. Close the BOP rams on the drill pipe and test to **10,000 psi maximum.**
- 9. Monitor the open outlets for signs of leakage past the test plug.

- 10. Once a satisfactory test is achieved, release pressure and open the rams.
- 11. Close the side outlet valves.
- 12. Remove as much fluid from the BOP stack as possible.
- 13. Slowly retrieve the test plug, avoiding damage to the seals.
- 14. Repeat this procedure, as required, during drilling or conditioning of the hole.



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- Install the Type H Back Pressure Valve, carefully lowering the BPV through the BOP stack into the tubing hanger. Rotate the BPV counterclockwise (to the left) until it bottoms out in the tubing hanger BPV prep. Continue rotating counterclockwise, approximately 7 turns, to retrieve the running tool.
- 12. With the well safe and under control, the BOP stack may be removed.

Installation and Testing of the Production Tree

Installation

- 1. Examine the production tree assembly. Verify the following;
 - Bore is clean and free of debris.
 - All valves are in the fully open position.
 - All threads and seal areas are clean and undamaged.
 - All fittings, nuts and handwheels are intact and undamaged.
- 2. Thoroughly clean all exposed portions of the tubing hanger, tubing head adapter flange and bottom prep of the tubing head adapter.
- Thoroughly clean mating ring grooves of the tubing head adapter flange and WFT-TCM tubing spool.
- 4. Lightly lubricate the tubing hanger neck outer diameter and tubing head adapter flange bottom prep with oil or grease.



Excessive oil or grease will prevent a positive seal from forming.

5. Install a new appropriately sized ring gasket into the WFT-TCM tubing spool groove.

6. Fill the void area around the hanger with hydraulic fluid, to the top of the tubing spool assembly.



Do NOT overfill the void area, allowing oil to run into the ring groove. This may prevent a positive seal from forming.



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| vvcauicriuru | mariaai | Marion Robertson | Brad Franks | Manual Zaragoza | Page 23 of | |
| 5-3-GL-GL-WES-00XXX | | December 2014 | December 2014 | December 2014 | 24 | |

Uperator Name: BTA OIL PRODUCERS LLC

Well Name: ROJO 7811 22 FEDERAL COM

Well Number: 29H

Access surfacing type: OTHER

Access topsoil source: BOTH

Access surfacing type description: Native Caliche

Access onsite topsoil source depth: 6

Offsite topsoil source description: Material will be obtained from the closest existing caliche pit as designated by the BLM.

Onsite topsoil removal process: The top 6 inches of topsoil is pushed off and stockpiled along the side of the location. An approximate 160' X 160' area is used within the proposed well site to remove caliche. Subsoil is removed and stockpiled within the pad site to build the location and road. Then subsoil is pushed back in the hole and caliche is spread accordingly across proposed access road.

Access other construction information:

Access miscellaneous information:

Number of access turnouts:

Access turnout map:

Drainage Control

New road drainage crossing: OTHER

Drainage Control comments: Proposed access road will be crowned and ditched and constructed of 6 inch rolled and compacted caliche. Water will be diverted where necessary to avoid ponding, maintain good drainage, and to be consistent with local drainage patterns.

Road Drainage Control Structures (DCS) description: Any ditches will be at 3:1 slope and 3 feet wide.

Road Drainage Control Structures (DCS) attachment:

Access Additional Attachments

Additional Attachment(s):

Section 3 - Location of Existing Wells

Existing Wells Map? YES

Attach Well map:

ROJO_7811_22_FED_COM_29H_1_Mile_Radius_Plat_20181105113906.pdf

Existing Wells description:

Section 4 - Location of Existing and/or Proposed Production Facilities

Submit or defer a Proposed Production Facilities plan? SUBMIT

Production Facilities description: If well is productive, we will use the existing well pad for the tank battery and all necessary production facilities. **Production Facilities map:**

Production_Facility_Layout_20180131163053.pdf

Uperator Name: BTA OIL PRODUCERS LLC

Well Name: ROJO 7811 22 FEDERAL COM

Well Number: 29H

Additional information attachment:

Section 6 - Construction Materials

Construction Materials description: Caliche used for construction of the drilling pad and access road will be obtained from the closest existing caliche pit as approved by the BLM or from prevailing deposits found under the location. If there is not sufficient material available, caliche will be purchased from the nearest caliche pit located in Section 23 T25S R33E Lea County, NM. Alternative location if original location closes will be located in Sec 3 T26S R33E Lea County, NM. **Construction Materials source location attachment:**

Section 7 - Methods for Handling Waste

Waste type: GARBAGE

Waste content description: Trash

Amount of waste: 500 pounds

Waste disposal frequency : One Time Only

Safe containment description: Trash produced during drilling and completion operations will be collected in a trash container and disposed of properly. **Safe containmant attachment:**

Sale containmant attaciment.

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

Disposal type description:

Disposal location description: Trucked to an approved disposal facility.

Waste type: DRILLING

Waste content description: Drilling fluids and cuttings.

Amount of waste: 4164 barrels

Waste disposal frequency : One Time Only

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

Safe containmant attachment:

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

FACILITY Disposal type description:

Disposal location description: Trucked to an approved disposal facility.

Waste type: SEWAGE

Waste content description: Human waste and grey water.

Amount of waste: 1000 gallons

Waste disposal frequency : One Time Only

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

Safe containmant attachment:

Uperator Name: BTA OIL PRODUCERS LLC

Well Name: ROJO 7811 22 FEDERAL COM

Well Number: 29H

Section 9 - Well Site Layout

Well Site Layout Diagram:

ROJO_7811_22_FED_COM_29H_Well_Site_Plan_20181105113950.pdf ROJO_7811_22_FED_COM_29H_Well_Site_Plan_with_Topsoil_and_IR_20190408154533.pdf **Comments:**

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance

Multiple Well Pad Name: ROJO 7811 22 FEDERAL COM

Multiple Well Pad Number: 26-29

Recontouring attachment:

Drainage/Erosion control construction: During construction proper erosion control methods will be used to control erosion, runoff, and siltation of the surrounding area.

Drainage/Erosion control reclamation: Proper erosion control methods will be used on the area to control erosion, runoff, and siltation of the surrounding area.

| Well pad proposed disturbance | Well pad interim reclamation (acres): | Well pad long term disturbance |
|---------------------------------------|---|--|
| (acres): 0 | 4.49 | (acres): 4.49 |
| Road proposed disturbance (acres): 0 | Road interim reclamation (acres): 0.26 | Road long term disturbance (acres): |
| | | 0.16 |
| Powerline proposed disturbance | Powerline interim reclamation (acres): | Powerline long term disturbance |
| (acres): 0 | 0 | (acres): 0 |
| Pipeline proposed disturbance | Pipeline interim reclamation (acres): 0 | Pipeline long term disturbance |
| | Other interim reclamation (acres): 0 | (acres): 0 |
| Other proposed disturbance (acres): 0 | | Other long term disturbance (acres): 0 |
| Total proposed disturbance: 0 | Total interim reclamation: 4.75 | 0 |
| rotar proposed disturbance. | | Total long term disturbance: 4.65 |

Disturbance Comments: Interim Reclamation will be at North side of well pad, 50' (see attachment under SUPO Section 9).

Reconstruction method: The areas planned for interim reclamation will then be recontoured to the original contour if feasible, or if not feasible, to an interim contour that blends with the surrounding topography as much as possible. Where applicable, the fill material of the well pad will be backfilled into the cut to bring the area back to the original contour. The interim cut and fill slopes prior to re-seeding will not be steeper than a 3:1 ratio, unless the adjacent native topography is steeper. Note: Constructed slopes may be much steeper during drilling, but will be recontoured to the above ratios during interim reclamation.

Topsoil redistribution: Topsoil will be evenly respread and aggressively revegetated over the entire disturbed area not needed for all-weather operations. Topsoil will be at North side of well pad, 30' (see attachment under SUPO Section 9). **Soil treatment:** To seed the area, the proper BLM seed mixture, free of noxious weeds, will be used. Final seedbed preparation will consist of contour cultivating to a depth of 4 to 6 inches within 24 hours prior to seeding, dozer tracking, or other imprinting in order to break the soil crust and create seed germination micro-sites.

Existing Vegetation at the well pad: The historic climax plant community is a grassland dominated by black grama, dropseeds, and blue stems with sand sage and shinnery oak distributed evenly throughout. Current landscape displays mesquite, shinnery oak, yucca, desert sage, fourwing saltbush, snakeweed, and bunch grasses. **Existing Vegetation at the well pad attachment:**

Existing Vegetation Community at the road: Refer to "Existing Vegetation at the well pad"

Uperator Name: BIA OIL PRODUCERS LLC

Well Name: ROJO 7811 22 FEDERAL COM

Well Number: 29H

Phone:

Email:

Seedbed prep:

Seed BMP:

Seed method:

Existing invasive species? NO

Existing invasive species treatment description:

Existing invasive species treatment attachment:

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

Weed treatment plan attachment:

Monitoring plan description: Identify areas supporting weeds prior to construction; prevent the introduction and spread of weeds from construction equipment during construction; and contain weed seeds and propagules by preventing segregated topsoil from being spread to adjacent areas. No invasive species present. Standard regular maintenance to maintain a clear location and road.

Monitoring plan attachment:

Success standards: To maintain all disturbed areas as per Gold Book standards.

Pit closure description: N/A

Pit closure attachment:

Section 11 - Surface Ownership

Disturbance type: WELL PAD

Describe:

Surface Owner: PRIVATE OWNERSHIP

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

VICINITY MAP

 SEC.
 22
 TWP.
 25-S
 RGE.
 33-E

 SURVEY
 N.M.P.M.

 COUNTY
 LEA
 STATE
 NEW MEXICO

 DESCRIPTION
 420' FSL & 1340' FEL

 ELEVATION
 3345'

 OPERATOR
 BTA OIL PRODUCERS, LLC

 LEASE
 ROJO 7811 22 FED COM

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 1 1625 N. French Phone: (575) 3 DISTRICT II 811 S. First St. Phone: (575) 7 DISTRICT IIV 1000 Rio Braz Phone: (505) 3 DISTRICT IV 1220 S. S. Fra Phone: (505) 4 | h Dr., Hobbs, J 393-6161 Fax: -, Artesia, NM 748-1283 Fax: | NM 88240 : (575) 393-0 88210 (575) 748-97 x; NM 87410 (505) 334-61 ia Fe, NM 87: (505) 476-34 | 720 220 70 505 162 WI | Energy ELL LOC | S , Mineral OIL COI 1220 Santa ATION 2 | tate of Ne s & Natur NSERVA 0 South S Fe, New AND AC | ew Mexic ral Resou TION D t. Francis Mexico (REAGE) | co irces Dep IVISION 5 Dr. 87505 DEDICA | partment | Re Submit or □AM | Form C-102 wised August 1, 2011 ne copy to appropriate District Office | |
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| | API | Number | | | Pool Code | | | | Pool Name | | | |
| Pr | roperty Code | | | | . <u>-</u> | Propert | y Name | | | We | all Number | |
| | | | | | ROJ | O 7811 2 | 2 FED C | OM | | | 29H | |
| | JGRID No. | | | | BTA (| OIL PRO | DUCERS | S, LLC | | | 3345' | |
| L | | | | | | Surface | Location | - | | I | | |
| UL or lo | ot No. | Section | Townsh | ip Range | Lot Idn | Feet from | the North | VSouth line | Feet from the | East/West line | County | |
| 0 | | 22 | 23-8 | 33-E | | 420 | 50 | | 1340 | EASI | LEA | |
| UL or lo | ot No. | Section | Townsh | ip Range | Lot Idn | Feet from | the North | om Surface | Feet from the | East/West line | County | |
| B | | 22 | 25-S | 33-E | | 100 | N | ORTH | 2260 | EAST | LEA | |
| Dedicate | ed Acres | Joint or | Infill | Consolidation | n Code Oi | rder No. | | ŀ | 1 | | | |
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| | ³⁵³ 30-925 <u>२</u> (Å) | B386 | NWNYA (B) | NENW (C) | NWNE (B) | NENE (A) | NWNW (D) | NE MY | NWNE (B) | | | |
| | SENE (H) | / | SWNW (E) | SENW (F) | SWNE (G) | SENE (H) (C) | SWNW (E) | SENW (F) | SWNE V G) | | | |
| | - 1 / / NESE | | NWSW (L) | NESW (K) | NWSE (J) | NE SE | NWSW (L) | NESW (K) | NV/SE \ (J) \ | | | |
| | 000 30-025-2 (P) | 3895 | SWSW (M) | SESW (N) | #29H-30 SWSE (0) | -225/42704 SESE (P30-025- 136 33E 30-025 30-025-424 | 30-025-03387 3875m (#) 13876 4 30-02 | SESW (N) 30-025-43877 5-43878 | SWSE (0) | | | |
| | B0-025-423 130-025-423 (A) | 374 8390 30- | 30-025-434 30-025-434 025-26188 (8) | NENW (C) | 30-025-44350 NWNE (B) | 30-22 5-44458 NENE (A) | 30-025-39531 30-025-4322 30-025-4322 00 -4 | 130-025-0218 025-03219 | 30-025-02971/30- 0025-02970/30-026-025 | 2 | | |
| | SENE (N) | | SWNW (E) | SENW (F) | SWNE (G) | SENE (H) | SWNW (E) | SENW (F) | 5WFIE 1/G) 30-025-38705 | | | |
| | NESE (1) | | NWSW (L) | NESW (K) | NWSE (J) | NESE (1) | NWSW (L) | NESW (K V | NWSE (J) | | | |
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BTA OIL PRODUCERS, LLC WATER TRANSPORTATION MAP ROJO 7811 JV-P FED COM #26H - #29H WELLPAD TO ROJO Pond SEC 22 T25S – R33E LEA COUNTY, NM

Section 3 - Unlined Pits

Would you like to utilize Unlined Pit PWD options? NO

Produced Water Disposal (PWD) Location:

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?

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? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

Injection PWD discharge volume (bbl/day):

Injection well mineral owner:

PWD disturbance (acres):

PWD disturbance (acres):

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

Bond Information

• - -- --- -

Federal/Indian APD: FED BLM Bond number: NMB000849 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; Bomanning Balannapont

06/03/2019