Form 3160-3 FORM APPROVED OMB No. 1004-0137 (June 2015) Expires: January 31, 2018 **UNITED STATES** DEPARTMENT OF THE INTERIOR 5. Lease Serial No. BUREAU OF LAND MANAGEMENT APPLICATION FOR PERMIT TO DRILL OR REENTER 6. If Indian, Allotee or Tribe Name 7. If Unit or CA Agreement, Name and No. DRILL REENTER 1a. Type of work: 1b. Type of Well: Oil Well Gas Well Other 8. Lease Name and Well No. 1c. Type of Completion: Hydraulic Fracturing Single Zone Multiple Zone 2. Name of Operator 9. API Well No. 3a. Address 3b. Phone No. (include area code) 10. Field and Pool, or Exploratory 4. Location of Well (Report location clearly and in accordance with any State requirements.*) 11. Sec., T. R. M. or Blk. and Survey or Area At surface At proposed prod. zone 14. Distance in miles and direction from nearest town or post office* 12. County or Parish 13. State 15. Distance from proposed* 16. No of acres in lease 17. Spacing Unit dedicated to this well location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 18. Distance from proposed location* 19. Proposed Depth 20. BLM/BIA Bond No. in file to nearest well, drilling, completed, applied for, on this lease, ft. 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 22. Approximate date work will start* 23. Estimated duration 24. Attachments The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable) 1. Well plat certified by a registered surveyor. 4. Bond to cover the operations unless covered by an existing bond on file (see 2. A Drilling Plan. Item 20 above). 3. A Surface Use Plan (if the location is on National Forest System Lands, the 5. Operator certification. SUPO must be filed with the appropriate Forest Service Office). 6. Such other site specific information and/or plans as may be requested by the 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



*(Instructions on page 2)

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

30-025-49912	Pool Code 51020	Pool Name RED HILLS;LOW	ER BONE SRPING
Property Code	Prope	rty Name	Well Number
322775	ROJO 7811 22	FEDERAL COM	47H
OGRID No.	Opera	tor Name	Elevation
260297	BTA OIL PRO	DDUCERS, LLC	3367'

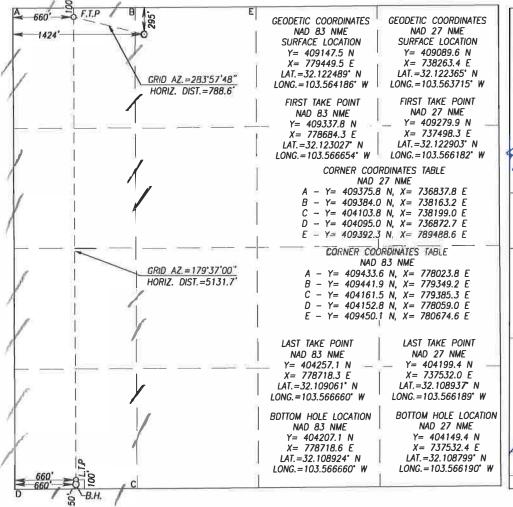
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
С	22	25-S	33-E		295	NORTH	1424	WEST	LEA

Bottom Hole Location If Different From Surface

UL or lot No.	Section 22	Township 25-S	Range 33-E	Lot Idn	Feet from the	North/South line	Feet from the 660	East/West line WEST	County LEA
Dedicated Acres	Joint or	Infill C	onsolidation C	ode Ord	er No.				

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



OPERATOR CERTIFICATION

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

vnatur#

3/10/2020

Date

Sammy Hajar

Printed Name

SHAJAR@BTAOIL.COM

E-mail Address

SURVEYOR CERTIFICATION

I hereby certify that the work Mishing on this plat was plotted from College of the first of the first plane by me or under my super signal by the state of the first plane by an and correct to the state of the first super signal by the state of the sta

NOVEMBER 13

Date of Survey Signature Stand of Pro-

2 EuQoon 01/13/2020 Gary G. Eidson Certificate Number 12641 3239

Ronald J. Eidson LSL. JWSC W O : 19 11 1244

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: | BTA OIL PRODUCERS LLC

LEASE NO.: | NMNM015091

WELL NAME & NO.: ROJO 7811 22 FED COM 47H

SURFACE HOLE FOOTAGE: 295'/N & 1424'/W **BOTTOM HOLE FOOTAGE** 50'/S & 660'/W

LOCATION: | Section 22, T.25 S., R.33 E., NMP

COUNTY: Lea County, New Mexico

COA

H2S	• Yes	O No	
Potash	None	Secretary	© R-111-P
Cave/Karst Potential	• Low	O Medium	O High
Cave/Karst Potential	Critical		
Variance	O None	Flex Hose	Other
Wellhead	Conventional	O Multibowl	O Both
Other	☐4 String Area	☐ Capitan Reef	□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

Casing Design:

- 1. The 13-3/8 inch surface casing shall be set at approximately 1,350 feet (a minimum of 25 feet (Lea County) into the Rustler Anhydrite and above the salt) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after

- completing the cement job.
- b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8** hours or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- d. If cement falls back, remedial cementing will be done prior to drilling out that string.

Intermediate casing must be kept fluid filled to meet BLM minimum collapse requirement.

- 2. The minimum required fill of cement behind the **9-5/8** inch intermediate casing, which shall be set at approximately **4,992** feet is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above.
- 3. The minimum required fill of cement behind the 5-1/2 inch production casing is:
 - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'

2.

Option 1:

a. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **2000 (2M)** psi.

b. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the intermediate casing shoe shall be **5000** (**5M**) psi.

Option 2:

- 1. 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 **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. When the Communitization Agreement number is known, it shall also be on the sign.

BOP Break Testing Variance (Note: For 5M BOP or less)

- BOPE Break Testing is ONLY permitted for 5M BOPE or less.
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer prior to the commencement of any BOPE Break Testing operations.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required.
- The BLM is to be contacted (575-361-2822 Eddy County) (575-393-3612 Lea County) 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at 21-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per Onshore Oil and Gas Order No. 2.

GENERAL REQUIREMENTS

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

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)
 - Eddy County
 Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822
 - Lea County
 Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 393-3612
- 1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).

- b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
- 3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

- 1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
- 2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.

- 4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
- 5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
- 6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
- 7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
- 8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
- 2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
- 3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
- 4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.

- b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
- c. Manufacturer representative shall install the test plug for the initial BOP
- d. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.
- e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the plug. However, no tests shall commence until the cement has had a minimum of 24 hours setup time, except the casing pressure test can be initiated immediately after bumping the plug (only applies to single stage cement jobs).
 - c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
 - d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall

have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.

- e. The results of the test shall be reported to the appropriate BLM office.
- f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

C. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

OTA10082020



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

Operator Certification Data Report 03/14/2022

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

Application Data Report

APD ID: 10400055318

Submission Date: 03/19/2020

Highlighted data reflects the most recent changes

Operator Name: BTA OIL PRODUCERS LLC

Well Number: 47H

Show Final Text

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - General

Well Name: ROJO 7811 22 FEDERAL COM

10400055318 Tie to previous NOS? N

Submission Date: 03/19/2020

BLM Office: Carlsbad

APD ID:

User: Sammy Hajar

Title: Regulatory Analyst

Federal/Indian APD: FED

Is the first lease penetrated for production Federal or Indian? FED

Lease number: NMNM015091

Surface access agreement in place?

Allotted?

Lease Acres:

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: ROJO 7811 22 FEDERAL COM Well API Number: Well Number: 47H

Field/Pool or Exploratory? Field and Pool Field Name: PURPLE SAGE; Pool Name: BONESPRING

WOLFCAMP (GAS)

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

Page 1 of 3

Operator Name: BTA OIL PRODUCERS LLC

Well Name: ROJO 7811 22 FEDERAL COM Well Number: 47H

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

Is the proposed well in a Helium production area? N Use Existing Well Pad? Y New surface disturbance? Y

Type of Well Pad: MULTIPLE WELL Multiple Well Pad Name: ROJO Number: 2H, 47H, and 48H

Well Class: HORIZONTAL 7811 FED COM
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: 14 Miles Distance to nearest well: 166 FT Distance to lease line: 295 FT

Reservoir well spacing assigned acres Measurement: 160 Acres

Well plat: Rojo_7811_22_Federal_Com_47H_c102_20200319100558.pdf

Well work start Date: 08/18/2020 Duration: 30 DAYS

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83 Vertical Datum: NGVD29

Survey number: Reference Datum: GROUND LEVEL

Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD	Will this well produce from this lease?
SHL	295	FNL	142	FW	25S	33E		Aliquot	32.12248		LEA	1		F	NMNM	336	0	0	Υ
Leg			4	L				NENW	9	103.5641		1	MEXI		015091	7			
#1										86		СО	СО						
KOP	100	FNL	660	FW	25S	33E	22	Aliquot	32.12302	-	LEA	NEW	NEW	F	NMNM	-	118	117	Υ
Leg				L				NWN	7	103.5666		MEXI	I		015091	841	12	80	
#1								W		54		CO	CO			3			
PPP	100	FNL	660	FW	25S	33E	22	Aliquot	32.12302	-	LEA	NEW	NEW	F	NMNM	-	920	918	Υ
Leg				L				NWN	7	103.5666		MEXI	MEXI		015091	581	6	1	
#1-1								W		54		СО	СО			4			

Operator Name: BTA OIL PRODUCERS LLC

Well Name: ROJO 7811 22 FEDERAL COM Well Number: 47H

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	660	FW L	25S	33E	22	Aliquot SWS W	32.10906 1	- 103.5666 6	LEA	NEW MEXI CO		F	NMNM 015091	- 889 0	170 21	122 57	Υ
BHL Leg #1	50	FSL	660	FW L	25S	33E	22	Aliquot SWS W	32.10892 4	- 103.5666 6		NEW MEXI CO	—	F	NMNM 015091	- 889 0	173 01	122 57	Y



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

Drilling Plan Data Report

03/14/2022

APD ID: 10400055318

Submission Date: 03/19/2020

Highlighted data reflects the most recent changes

Operator Name: BTA OIL PRODUCERS LLC Well Name: ROJO 7811 22 FEDERAL COM

Well Number: 47H

Show Final Text

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - Geologic Formations

Formation			True Vertical	Measured			Producing
ID	Formation Name	Elevation	Depth	Depth	Lithologies	Mineral Resources	Formation
693822	QUATERNARY	3367	0	Ö	ALLUVIUM	NONE	N
693823	RUSTLER	2285	1082	1082	ANHYDRITE	NONE	N
693824	TOP SALT	1796	1571	1571	SALT	NONE	N
693825	BASE OF SALT	-1376	4743	4743	SALT	NONE	N
693826	DELAWARE	-1634	5001	5001	LIMESTONE	NATURAL GAS, OIL	N
693835	BELL CANYON	-1667	5034	5034	SANDSTONE	NONE	N
693828	CHERRY CANYON	-3062	6429	6429	SANDSTONE	NATURAL GAS, OIL	N
693829	BRUSHY CANYON	-4198	7565	7565	SANDSTONE	NATURAL GAS, OIL	N
693833	BONE SPRING LIME	-5814	9181	9181	LIMESTONE	NATURAL GAS, OIL	N
693836	FIRST BONE SPRING SAND	-6810	10177	10177	SANDSTONE	NATURAL GAS, OIL	Y
693837	BONE SPRING 2ND	-7379	10746	10746	SANDSTONE	NATURAL GAS, OIL	Y
693838	BONE SPRING 3RD	-8487	11854	11854	SANDSTONE	NATURAL GAS, OIL	Y
693839	WOLFCAMP	-8950	12317	12317	SHALE	NATURAL GAS, OIL	Y

Section 2 - Blowout Prevention

Operator Name: BTA OIL PRODUCERS LLC

Well Name: ROJO 7811 22 FEDERAL COM Well Number: 47H

Pressure Rating (PSI): 5M Rating Depth: 11000

Equipment: The blowout preventer equipment (BOP) shown in Exhibit A will consist of a (5M system) double ram type (5,000 psi WP) preventer and a bag-type (Hydril) preventer (5000 psi WP). Both units will be hydraulically operated and the ram type preventer will be equipped with blind rams on top and 5 drill pipe rams on bottom. The BOPs will be installed on the 13-3/8 surface casing and utilized continuously until total depth is reached. A 2 kill line and 3 choke line will be incorporated in the drilling spool below the ram-type BOP. A remote kill line will be used for the 5M system as per onshore order #2. Other accessory BOP equipment will include a Kelly cock, floor safety valve, choke lines, and choke manifold having a 5,000 psi WP rating. The 5M annular will be tested as per BLM drilling Operations Order No. 2.

Requesting Variance? NO

Variance request:

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

Choke Diagram Attachment:

5M_choke_mannifold_20200316152112.pdf

Choke_Hose___Test_Chart_and_Specs_20190723082742.pdf

BOP Diagram Attachment:

5M_BOP_diagram_20200316152127.pdf

Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	17.5	13.375	NEW	API	N	0	1475	0	1475	3367	1892	1475	J-55	54.5	ST&C	1.8	4.3	DRY	6.4	DRY	10.6
	INTERMED IATE	12.2 5	9.625	NEW	API	N	0	4992	0	4981	3328	-1614	4992	J-55	40	LT&C	1.7	1.5	DRY	2.6	DRY	3.2
3	PRODUCTI ON	8.75	5.5	NEW	API	N	0	17301	0	12257	3328	-8890	17301	P- 110	17	BUTT	2.3	1.8	DRY	1.9	DRY	1.9

Casing Attachments

Operator Name: BTA OIL PRODUCERS LLC

Well Name: ROJO 7811 22 FEDERAL COM

Well Number: 47H

Casing ID: 1 String Type: SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Rojo_47H_Casing_Assumption_20200319115816.JPG

Casing ID: 2 String Type: INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Rojo_47H_Casing_Assumption_20200319115856.JPG

Casing ID: 3 String Type: PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Rojo_47H_Casing_Assumption_20200319115937.JPG

Section 4 - Cement

Operator Name: BTA OIL PRODUCERS LLC

Well Name: ROJO 7811 22 FEDERAL COM Well Number: 47H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	1280	1030	1.73	13.5	1781. 9	100	Class C	2% CaCl2
SURFACE	Tail		1280	1475	200	1.35	14.8	270	100	Class C	2% CaCl2
INTERMEDIATE	Lead		0	4435	1310	2.46	12.8	3222. 6	100	Class C	0.5% CaCl2
INTERMEDIATE	Tail		4435	4492	200	1.34	14.8	268	25	Class C	1% CaCl2
PRODUCTION	Lead		3992	9910	580	3.9	10.5	2262	60	25% Poz 75% Class C	0.4% Fluid Loss
PRODUCTION	Tail		9910	1730 1	1870	1.25	14.4	2337. 5	25	Class H	0.2% LT Retarder

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

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

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

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

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

Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	ЬН	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	1475	OTHER : FW SPUD	8.3	8.4							
1475	4981	OTHER : BRINE	10	10							
4981	1225 7	OTHER : CUT BRINE	8.7	9.3							

Operator Name: BTA OIL PRODUCERS LLC

Well Name: ROJO 7811 22 FEDERAL COM Well Number: 47H

Section 6 - Test, Logging, Coring

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

Drill Stem Tests will be based on geological sample shows.

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

MUD LOG/GEOLOGICAL LITHOLOGY LOG, GAMMA RAY LOG, CEMENT BOND LOG,

Coring operation description for the well:

None planned

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 5991 Anticipated Surface Pressure: 3294

Anticipated Bottom Hole Temperature(F): 179

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

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards attachment:

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations plan:

BTA_Oil_Producers_LLC___EMERGENCY_CALL_LIST_20190723161502.pdf H2S_Equipment_Schematic_20190723161502.pdf

H2S_Plan_20190723161502.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Rojo_47H_wall_plot_20200319120500.pdf

Rojo_47H_directional_plan_20200319120500.pdf

Rojo_47H_Gas_Capture_Plan_20200319120515.pdf

Other proposed operations facets description:

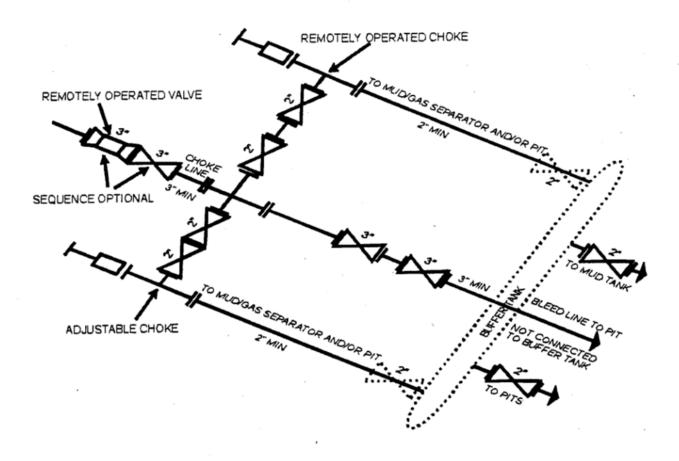
Other proposed operations facets attachment:

Other Variance attachment:

BOP_Break_Testing_Variance_20200106151949.pdf

Casing_Head_Running_Procedure_20190723163249.pdf

 $Multi_Bowl_Diagram_13_38_x_9_58_x_5_12_20200317120230.pdf$



5M CHOKE MANIFOLD EQUIPMENT - CONFIGURATION OF CHOKES MAY VARY

Although not required for any of the choke manifold systems, buffer tanks are sometimes installed downstream of the choke assemblies for the purpose of manifolding the bleed lines together. When buffer tanks are employed, valves shall be installed upstream to isolate a failure or malfunction without interrupting flow control. Though not shown on 2M, 3M, 10M, OR 15M drawings, it would also be applicable to those situations.

[54 FR 39528, Sept. 27, 1989]



Contifech

CONTITECH RUBBER Industrial Kft.

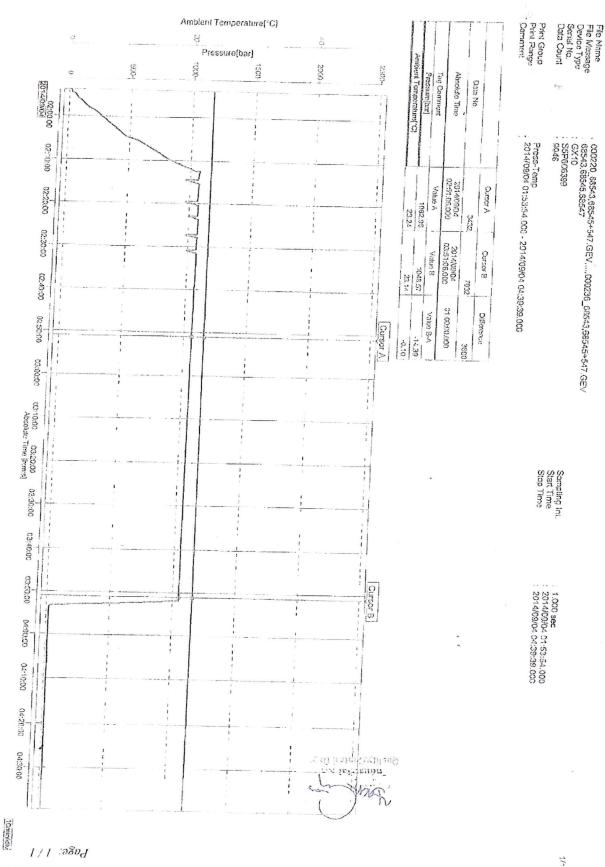
No:QC-DB- 599/ 2014

Page:

16 / 176

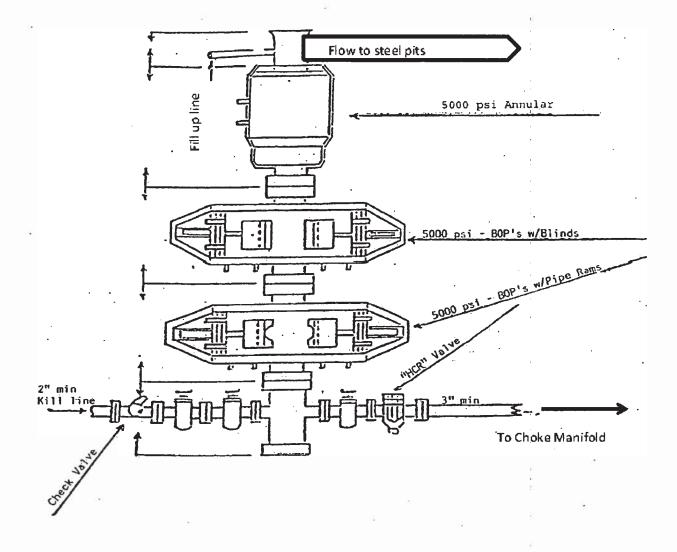
Ria 94				F	1226		244	55		
QUALI INSPECTION /	TY CONT AND TEST		ICATE	en e	CERT. N	jo.	1592	2		
PURCHASER:	ContiTech C	il & Marine	Corp.		P.O. N°:		450046	1753		
CONTITECH ORDER N°:	539225	HOSE TYPE	3"	ID	L.	Choke	& Kill Hose)		
HOSE SERIAL Nº:	68547	NOMINAL / A	CTUAL LI	ENGTH:		7,62 m	1 / 7,66 m			
W.P. 68,9 MPa	10000 psi	T.P. 103,4	. МРа	1500	00 psi	Duration:	60	min.		
ambient temperature → 10 Min		'See attac	shment.	(1 pa	ge)					
↑ 50 MP:	The agrant strategy of the last last a			7111 CAN 170	O	.:		a software redements		
COUPLINGS Typ			ial N°		Qua		Hea			
3" coupling with 4 1/16" 10K API Swivel F	1	2574	553	3	AISI 4		A1582N 588	H8672		
Hub	lange en				AISI		A1199N			
Not Designed For V	Vell Testinç	}				i	API Spec	16 C		
Fire Rated						Ten	perature	rate:"B"		
All metal parts are flawless						*				
WE CERTIFY THAT THE ABOVE INSPECTED AND PRESSURE T				CCORDA RESULT.	NCE WITH	THE TERM	AS OF THE OF	DER		
STATEMENT OF CONFORMIN conditions and specifications of accordance with the referenced st	of the above Purci	naser Order and	that these i	tems/equ	uipment we	re fabricated	inspected and	I tested in		
Date."	Inspector		Quality	/ Contro	1					
04. September 2014. O4. September 2014. O5. September 2014. O5. September 2014. O5. September 2014.										

Contificin Ryther Industrial Kit. | Budagosti ĉi 10.11 6728 Szeged | IN-6701 P.O.Box 152 Szaged, Hungshy Phone: 156.67.66 737 | Fax: +36.62.556 738 | e-mail inte@fluid contiects in I Internet www.contiects.rut.evr.in.contiects in The Court of Osongrád County as Registry Court | Registry Court No. Cg 08.69.69252? | FITVAT No. P.I.11087298 Book cots Commerciand, Zit., Budagost | 14220106-26833693



VILIVCHWENI OF QUALITY CONTROL INSPECTION AND TEST CERTIFICATE — Vo.: 1588, 1590, 1592

13-5/8" 5,000 PSI BOP

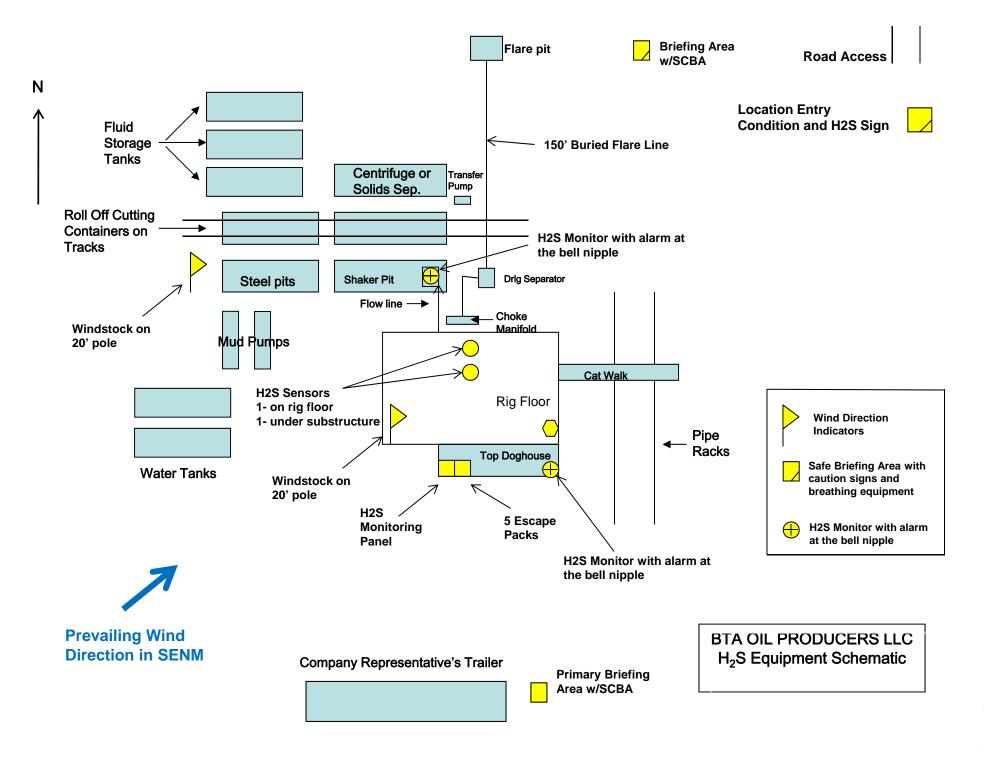


EMERGENCY CALL LIST

	<u>OFFICE</u>	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

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



BTA OIL PRODUCERS LLC



HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

1. HYDROGEN SULFIDE TRAINING

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

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

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

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

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

2. H₂S SAFETY EQUIPMENT AND SYSTEMS

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

- a. Well Control Equipment:
 - Flare line.
 - Choke manifold with remotely operated choke.
 - Blind rams and pipe rams to accommodate all pipe sizes with properly sized closing unit.
 - Auxiliary equipment to include: annular preventer, mud-gas separator, rotating head.
- b. Protective equipment for essential personnel:
 - Mark II Surviveair 30-minute units located in the dog house and at briefing areas.
- c. H2S detection and monitoring equipment:

- 2 portable H2S monitor positioned on location for best coverage and response. These units have warning lights and audible sirens when H2S levels of 20 ppm are reached.
- d. Visual warning systems: Caution/Danger signs shall be posted on roads providing direct access to location. Signs will be painted a high visibility yellow with black lettering of sufficient size to be readable at a reasonable distance from the immediate location. Bilingual signs will be used, when appropriate. See example attached.
- e. Mud Program:
 The mud program has been designed to minimize the volume of H2S circulated to the surface.
- f. Metallurgy:
 All drill strings, casings, tubing, wellhead, blowout preventers, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H2S service.
- g. Communication:
 Company vehicles equipped with cellular telephone.

WARNING

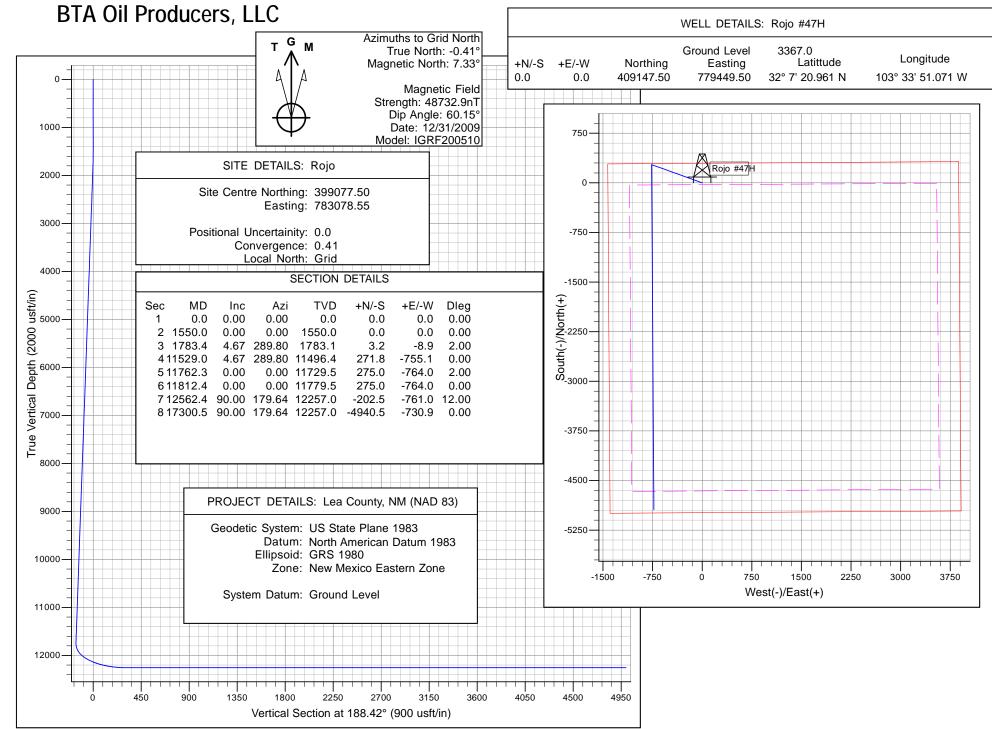
YOU ARE ENTERING AN H₂S AREA AUTHORIZED PERSONNEL ONLY

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

BTA OIL PRODUCERS LLC

1-432-682-3753

3/17/2022 2:57:36 PM



BTA Oil Producers, LLC

Lea County, NM (NAD 83) Rojo Rojo #47H

Wellbore #1

Plan: Design #1

Standard Planning Report - Geographic

18 March, 2020

Planning Report - Geographic

Database: Company: Old

BTA Oil Producers, LLC

Project: Site:

Lea County, NM (NAD 83) Rojo

Well: Rojo #47H Wellbore: Wellbore #1 Design #1 Design:

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Rojo #47H GL @ 3367.0usft

GL @ 3367.0usft Grid

Minimum Curvature

Project

Lea County, NM (NAD 83), Lea County, NM

Map System: Geo Datum:

Map Zone:

US State Plane 1983 North American Datum 1983 New Mexico Eastern Zone

System Datum:

Ground Level

Using geodetic scale factor

Site Rojo

Site Position: From:

Position Uncertainty:

Position Uncertainty

Well Position

Northing: Мар Easting: 0.0 usft Slot Radius: 399,077.50 usft 783,078.55 usft 13-3/16 "

Latitude: Longitude: **Grid Convergence:**

32° 5' 41.057 N 103° 33' 9.721 W

0.41

Well

Rojo #47H +N/-S

0.0 usft +E/-W 0.0 usft 0.0 usft

Northing: Easting:

409,147.50 usft 779,449.50 usft Wellhead Elevation:

Latitude: Longitude: Ground Level:

32° 7' 20.961 N 103° 33' 51.071 W

3,367.0 usft

Wellbore Wellbore #1

Magnetics **Model Name** Sample Date Declination Dip Angle Field Strength (°) (°) (nT) 7.74 60.15 48,732.93094970 IGRF200510 12/31/2009

Design #1 Design

Audit Notes:

Version:

Vertical Section:

Phase:

Depth From (TVD)

(usft)

0.0

PROTOTYPE

+N/-S

(usft)

0.0

Tie On Depth: +E/-W

(usft)

0.0

0.0

Direction (°) 188.42

Plan Survey Tool Program

Date 3/18/2020

Depth From Depth To (usft) (usft)

Survey (Wellbore)

Tool Name

Remarks

0.0 17,300.5 Design #1 (Wellbore #1)

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,550.0	0.00	0.00	1,550.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,783.4	4.67	289.80	1,783.1	3.2	-8.9	2.00	2.00	0.00	289.80	
11,529.0	4.67	289.80	11,496.4	271.8	-755.1	0.00	0.00	0.00	0.00	
11,762.3	0.00	0.00	11,729.5	275.0	-764.0	2.00	-2.00	0.00	180.00	
11,812.4	0.00	0.00	11,779.5	275.0	-764.0	0.00	0.00	0.00	0.00	
12,562.4	90.00	179.64	12,257.0	-202.5	-761.0	12.00	12.00	0.00	179.64	
17,300.5	90.00	179.64	12,257.0	-4,940.5	-730.9	0.00	0.00	0.00	0.00	Rojo #47H BHL

Planning Report - Geographic

Database: Old

Company: BTA Oil Producers, LLC
Project: Lea County, NM (NAD 83)

 Site:
 Rojo

 Well:
 Rojo #47H

 Wellbore:
 Wellbore #1

 Design:
 Design #1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Rojo #47H GL @ 3367.0usft

GL @ 3367.0usft Grid

Minimum Curvature

esign:	Desig	,							
lanned 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	409,147.50	779,449.50	32° 7' 20.961 N	103° 33' 51.071 W
100.0	0.00	0.00	100.0	0.0	0.0	409,147.50	779,449.50	32° 7' 20.961 N	103° 33' 51.071 W
200.0	0.00	0.00	200.0	0.0	0.0	409,147.50	779,449.50	32° 7′ 20.961 N	103° 33' 51.071 W
300.0	0.00	0.00	300.0	0.0	0.0	409,147.50	779,449.50	32° 7′ 20.961 N	103° 33' 51.071 W
400.0	0.00	0.00	400.0	0.0	0.0	409,147.50	779,449.50	32° 7' 20.961 N	103° 33' 51.071 W
500.0	0.00	0.00	500.0	0.0	0.0	409,147.50	779,449.50	32° 7' 20.961 N	103° 33' 51.071 V
600.0	0.00	0.00	600.0	0.0	0.0	409,147.50	779,449.50	32° 7' 20.961 N	103° 33' 51.071 V
700.0	0.00	0.00	700.0	0.0	0.0	409,147.50	779,449.50	32° 7' 20.961 N	103° 33' 51.071 V
800.0	0.00	0.00	800.0	0.0	0.0	409,147.50	779,449.50	32° 7' 20.961 N	103° 33' 51.071 V
900.0	0.00	0.00	900.0	0.0	0.0	409,147.50	779,449.50	32° 7' 20.961 N	103° 33' 51.071 V
1,000.0	0.00	0.00	1,000.0	0.0	0.0	409,147.50	779,449.50	32° 7' 20.961 N	103° 33' 51.071 V
1,100.0	0.00	0.00	1,100.0	0.0	0.0	409,147.50	779,449.50	32° 7' 20.961 N	103° 33' 51.071 V
1,200.0	0.00	0.00	1,200.0	0.0	0.0	409,147.50	779,449.50	32° 7' 20.961 N	103° 33' 51.071 V
1,300.0	0.00	0.00	1,300.0	0.0	0.0	409,147.50	779,449.50	32° 7' 20.961 N	103° 33' 51.071 V
1,400.0	0.00	0.00	1,400.0	0.0	0.0	409,147.50 409.147.50	779,449.50 779.449.50	32° 7' 20.961 N	103° 33' 51.071 V
1,500.0	0.00	0.00	1,500.0	0.0	0.0 0.0	,	-,	32° 7' 20.961 N	103° 33' 51.071 V
1,550.0 1,600.0	0.00 1.00	0.00 289.80	1,550.0 1,600.0	0.0 0.1	-0.4	409,147.50 409,147.65	779,449.50 779,449.09	32° 7' 20.961 N 32° 7' 20.963 N	103° 33' 51.071 V 103° 33' 51.076 V
1,700.0	3.00	289.80	1,699.9	1.3	-0.4	409,148.83	779,445.80	32° 7' 20.975 N	103° 33' 51.114 \
1,783.4	4.67	289.80	1,783.1	3.2	-8.9	409,150.72	779,440.56	32° 7' 20.973 N	103° 33' 51.175 \
1,800.0	4.67	289.80	1,799.7	3.7	-10.2	409,151.17	779,439.29	32° 7' 20.998 N	103° 33' 51.189 \
1,900.0	4.67	289.80	1,899.4	6.4	-17.9	409,153.93	779,439.29	32° 7' 21.026 N	103° 33' 51.278 \
2,000.0	4.67	289.80	1,999.0	9.2	-25.5	409,156.69	779,423.97	32° 7' 21.054 N	103° 33' 51.367 \
2,100.0	4.67	289.80	2,098.7	11.9	-33.2	409,159.44	779,416.32	32° 7' 21.082 N	103° 33' 51.456 \
2,200.0	4.67	289.80	2,198.4	14.7	-40.8	409,162.20	779,408.66	32° 7' 21.110 N	103° 33' 51.544 \
2,300.0	4.67	289.80	2,298.0	17.5	-48.5	409,164.95	779,401.01	32° 7' 21.137 N	103° 33' 51.633 \
2,400.0	4.67	289.80	2,397.7	20.2	-56.1	409,167.71	779,393.35	32° 7' 21.165 N	103° 33' 51.722 \
2,500.0	4.67	289.80	2,497.4	23.0	-63.8	409,170.46	779,385.70	32° 7' 21.193 N	103° 33' 51.811 \
2,600.0	4.67	289.80	2,597.0	25.7	-71.5	409,173.22	779,378.04	32° 7' 21.221 N	103° 33' 51.900 \
2,700.0	4.67	289.80	2,696.7	28.5	-79.1	409,175.98	779,370.38	32° 7' 21.249 N	103° 33' 51.988 \
2,800.0	4.67	289.80	2,796.4	31.2	-86.8	409,178.73	779,362.73	32° 7' 21.277 N	103° 33' 52.077 \
2,900.0	4.67	289.80	2,896.0	34.0	-94.4	409,181.49	779,355.07	32° 7' 21.304 N	103° 33' 52.166 \
3,000.0	4.67	289.80	2,995.7	36.7	-102.1	409,184.24	779,347.42	32° 7' 21.332 N	103° 33' 52.255 \
3,100.0	4.67	289.80	3,095.4	39.5	-109.7	409,187.00	779,339.76	32° 7' 21.360 N	103° 33' 52.344 \
3,200.0	4.67	289.80	3,195.0	42.3	-117.4	409,189.75	779,332.10	32° 7' 21.388 N	103° 33' 52.432 \
3,300.0	4.67	289.80	3,294.7	45.0	-125.1	409,192.51	779,324.45	32° 7' 21.416 N	103° 33' 52.521 \
3,400.0	4.67	289.80	3,394.4	47.8	-132.7	409,195.27	779,316.79	32° 7' 21.443 N	103° 33' 52.610 \
3,500.0	4.67	289.80	3,494.0	50.5	-140.4	409,198.02	779,309.14	32° 7' 21.471 N	103° 33' 52.699 \
3,600.0	4.67	289.80	3,593.7	53.3	-148.0	409,200.78	779,301.48	32° 7' 21.499 N	103° 33' 52.788 \
3,700.0	4.67	289.80	3,693.4	56.0	-155.7	409,203.53	779,293.83	32° 7' 21.527 N	103° 33' 52.876 \
3,800.0	4.67	289.80	3,793.1	58.8	-163.3	409,206.29	779,286.17	32° 7' 21.555 N	103° 33' 52.965 \
3,900.0	4.67	289.80	3,892.7	61.5	-171.0	409,209.04	779,278.51	32° 7' 21.582 N	103° 33' 53.054 \
4,000.0	4.67	289.80	3,992.4	64.3	-178.6	409,211.80	779,270.86	32° 7' 21.610 N	103° 33' 53.143 \
4,100.0	4.67	289.80	4,092.1	67.1	-186.3	409,214.56	779,263.20	32° 7' 21.638 N	103° 33′ 53.232 \
4,200.0	4.67	289.80	4,191.7	69.8	-194.0	409,217.31	779,255.55	32° 7' 21.666 N	103° 33' 53.320 \ 103° 33' 53.409 \
4,300.0	4.67	289.80	4,291.4	72.6	-201.6	409,220.07	779,247.89	32° 7' 21.694 N 32° 7' 21.721 N	
4,400.0 4,500.0	4.67 4.67	289.80 289.80	4,391.1 4,490.7	75.3 78.1	-209.3 -216.9	409,222.82 409,225.58	779,240.23 779,232.58	32 7 21.721 N 32° 7' 21.749 N	103° 33' 53.498 \ 103° 33' 53.587 \
4,600.0	4.67	289.80	4,490.7	80.8	-216.9 -224.6	409,225.58	779,232.58 779,224.92	32 7 21.749 N 32° 7' 21.777 N	103° 33' 53.675 \
4,700.0	4.67	289.80	4,690.4	83.6	-224.0	409,231.09	779,224.92	32° 7' 21.805 N	103° 33' 53.764 '
4,700.0	4.67	289.80	4,789.7	86.3	-232.2	409,233.85	779,209.61	32° 7' 21.833 N	103° 33' 53.853 \
4,900.0	4.67	289.80	4,789.7	89.1	-239.9	409,236.60	779,209.01	32° 7' 21.860 N	103° 33' 53.942 \
5,000.0	4.67	289.80	4,989.1	91.9	-247.3	409,239.36	779,194.30	32° 7' 21.888 N	103° 33' 54.031 \
5,100.0	4.67	289.80	5,088.7	94.6	-262.9	409,242.11	779,186.64	32° 7' 21.916 N	103° 33' 54.119 V
5,200.0	4.67	289.80	5,188.4	97.4	-270.5	409,244.87	779,178.99	32° 7' 21.944 N	103° 33' 54.208 V

Planning Report - Geographic

Database:

Old

BTA Oil Producers, LLC

Company: Project:

Lea County, NM (NAD 83)

Site: Well: Wellbore: Rojo #47H

Wellbore #1 Design #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Rojo #47H GL @ 3367.0usft

GL @ 3367.0usft

Grid Minimum Curvature

ign:	Desig	yn #1							
nned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
5,300.0	4.67	289.80	5,288.1	100.1	-278.2	409,247.62	779,171.33	32° 7' 21.972 N	103° 33' 54.29'
5,400.0	4.67	289.80	5,387.7	102.9	-285.8	409,250.38	779,163.68	32° 7' 22.000 N	103° 33' 54.38
5,500.0	4.67	289.80	5,487.4	105.6	-293.5	409,253.14	779,156.02	32° 7' 22.027 N	103° 33' 54.47
5,600.0	4.67	289.80	5,587.1	108.4	-301.1	409,255.89	779,148.37	32° 7' 22.055 N	103° 33' 54.56
5,700.0	4.67	289.80	5,686.8	111.2	-308.8	409,258.65	779,140.71	32° 7' 22.083 N	103° 33' 54.65
5,800.0	4.67	289.80	5,786.4	113.9	-316.5	409,261.40	779,133.05	32° 7' 22.111 N	103° 33' 54.74
5,900.0	4.67	289.80	5,886.1	116.7	-324.1	409,264.16	779,125.40	32° 7' 22.139 N	103° 33' 54.83
6,000.0	4.67	289.80	5,985.8	119.4	-331.8	409,266.91	779,117.74	32° 7' 22.166 N	103° 33' 54.91
6,100.0	4.67	289.80	6,085.4	122.2	-339.4	409,269.67	779,110.09	32° 7' 22.194 N	103° 33' 55.00
6,200.0	4.67	289.80	6,185.1	124.9	-347.1	409,272.43	779,102.43	32° 7' 22.222 N	103° 33' 55.09
6,300.0	4.67	289.80	6,284.8	127.7	-354.7	409,275.18	779,094.77	32° 7' 22.250 N	103° 33' 55.18
6,400.0	4.67	289.80	6,384.4	130.4	-362.4	409,277.94	779,087.12	32° 7' 22.278 N	103° 33' 55.27
6,500.0	4.67	289.80	6,484.1	133.2	-370.0	409,280.69	779,079.46	32° 7' 22.305 N	103° 33' 55.36
6,600.0	4.67	289.80	6,583.8	136.0	-377.7	409,283.45	779,071.81	32° 7' 22.333 N	103° 33' 55.45
6,700.0	4.67	289.80	6,683.4	138.7	-385.4	409,286.20	779,064.15	32° 7' 22.361 N	103° 33' 55.54
6,800.0	4.67	289.80	6,783.1	141.5	-393.0	409,288.96	779,056.50	32° 7' 22.389 N	103° 33' 55.62
6,900.0	4.67	289.80	6,882.8	144.2	-400.7	409,291.71	779,048.84	32° 7' 22.417 N	103° 33' 55.71
7,000.0	4.67	289.80	6,982.4	147.0	-408.3	409,294.47	779,041.18	32° 7' 22.444 N	103° 33' 55.80
7,100.0	4.67	289.80	7,082.1	149.7	-416.0	409,297.23	779,033.53	32° 7' 22.472 N	103° 33' 55.89
7,200.0	4.67	289.80	7,181.8	152.5	-423.6	409,299.98	779,025.87	32° 7' 22.500 N	103° 33' 55.98
7,300.0	4.67	289.80	7,281.4	155.2	-431.3	409,302.74	779,018.22	32° 7' 22.528 N	103° 33' 56.07
7,400.0	4.67	289.80	7,381.1	158.0	-438.9	409,305.49	779,010.56	32° 7' 22.556 N	103° 33' 56.16
7,500.0	4.67	289.80	7,480.8	160.8	-446.6	409,308.25	779,002.91	32° 7' 22.584 N	103° 33' 56.25
7,600.0	4.67	289.80	7,580.5	163.5	-454.3	409,311.00	778,995.25	32° 7' 22.611 N	103° 33' 56.33
7,700.0	4.67	289.80	7,680.1	166.3	-461.9	409,313.76	778,987.59	32° 7' 22.639 N	103° 33' 56.42
7,800.0	4.67	289.80	7,779.8	169.0	-469.6	409,316.52	778,979.94	32° 7' 22.667 N	103° 33' 56.51
7,900.0	4.67	289.80	7,879.5	171.8	-477.2	409,319.27	778,972.28	32° 7' 22.695 N	103° 33' 56.60
8,000.0	4.67	289.80	7,979.1	174.5	-484.9	409,322.03	778,964.63	32° 7' 22.723 N	103° 33' 56.69
8,100.0	4.67	289.80	8,078.8	177.3	-492.5	409,324.78	778,956.97	32° 7' 22.750 N	103° 33' 56.78
8,200.0	4.67	289.80	8,178.5	180.0	-500.2	409,327.54	778,949.31	32° 7' 22.778 N	103° 33' 56.87
8,300.0	4.67	289.80	8,278.1	182.8	-507.9	409,330.29	778,941.66	32° 7' 22.806 N	103° 33' 56.96
8,400.0	4.67	289.80	8,377.8	185.6	-515.5	409,333.05	778,934.00	32° 7' 22.834 N	103° 33' 57.05
8,500.0	4.67	289.80	8,477.5	188.3	-523.2	409,335.81	778,926.35	32° 7' 22.862 N	103° 33' 57.13
8,600.0	4.67	289.80	8,577.1	191.1	-530.8	409,338.56	778,918.69	32° 7' 22.889 N	103° 33' 57.22
8,700.0	4.67	289.80	8,676.8	193.8	-538.5	409,341.32	778,911.04	32° 7' 22.917 N	103° 33' 57.3′
8,800.0	4.67	289.80	8,776.5	196.6	-546.1	409,344.07	778,903.38	32° 7' 22.945 N	103° 33' 57.40
8,900.0	4.67	289.80	8,876.1	199.3	-553.8	409,346.83	778,895.72	32° 7' 22.973 N	103° 33' 57.49
9,000.0	4.67	289.80	8,975.8	202.1	-561.4	409,349.58	778,888.07	32° 7' 23.001 N	103° 33' 57.58
9,100.0	4.67	289.80	9,075.5	204.8	-569.1	409,352.34	778,880.41	32° 7' 23.028 N	103° 33' 57.67
9,200.0	4.67	289.80	9,175.1	207.6	-576.8	409,355.10	778,872.76	32° 7' 23.056 N	103° 33' 57.76
9,300.0	4.67	289.80	9,274.8	210.4	-584.4	409,357.85	778,865.10	32° 7' 23.084 N	103° 33' 57.84
9,400.0	4.67	289.80	9,374.5	213.1	-592.1	409,360.61	778,857.44	32° 7' 23.112 N	103° 33' 57.93
9,500.0	4.67	289.80	9,474.2	215.9	-599.7	409,363.36	778,849.79	32° 7' 23.140 N	103° 33' 58.02
9,600.0	4.67	289.80	9,573.8	218.6	-607.4	409,366.12	778,842.13	32° 7' 23.167 N	103° 33' 58.11
9,700.0	4.67	289.80	9,673.5	221.4	-615.0	409,368.87	778,834.48	32° 7' 23.195 N	103° 33' 58.20
9,800.0	4.67	289.80	9,773.2	224.1	-622.7	409,371.63	778,826.82	32° 7' 23.223 N	103° 33' 58.29
9,900.0	4.67	289.80	9,872.8	226.9	-630.3	409,374.39	778,819.17	32° 7' 23.251 N	103° 33' 58.38
10,000.0	4.67	289.80	9,972.5	229.6	-638.0	409,377.14	778,811.51	32° 7' 23.279 N	103° 33' 58.47
10,100.0	4.67	289.80	10,072.2	232.4	-645.7	409,379.90	778,803.85	32° 7' 23.307 N	103° 33' 58.55
10,200.0	4.67	289.80	10,171.8	235.2	-653.3	409,382.65	778,796.20	32° 7' 23.334 N	103° 33' 58.64
10,300.0	4.67	289.80	10,271.5	237.9	-661.0	409,385.41	778,788.54	32° 7' 23.362 N	103° 33' 58.73
10,400.0	4.67	289.80	10,371.2	240.7	-668.6	409,388.16	778,780.89	32° 7' 23.390 N	103° 33' 58.82
10,500.0	4.67	289.80	10,470.8	243.4	-676.3	409,390.92	778,773.23	32° 7' 23.418 N	103° 33' 58.91
10,600.0	4.67	289.80	10,570.5	246.2	-683.9	409,393.68	778,765.58	32° 7' 23.446 N	103° 33' 59.00
10,700.0	4.67	289.80	10,670.2	248.9	-691.6	409,396.43	778,757.92	32° 7' 23.473 N	103° 33' 59.09

Planning Report - Geographic

Database: Old

Company:

Project:

Olu

BTA Oil Producers, LLC Lea County, NM (NAD 83)

Site: Rojo
Well: Rojo #47H
Wellbore: Wellbore #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Rojo #47H GL @ 3367.0usft

GL @ 3367.0usft Grid

Minimum Curvature

ign:	Desig	n #1							
nned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
10,800.0	4.67	289.80	10,769.8	251.7	-699.3	409,399.19	778,750.26	32° 7' 23.501 N	103° 33' 59.181
10,900.0	4.67	289.80	10,869.5	254.4	-706.9	409,401.94	778,742.61	32° 7' 23.529 N	103° 33' 59.269
11,000.0	4.67	289.80	10,969.2	257.2	-714.6	409,404.70	778,734.95	32° 7' 23.557 N	103° 33' 59.358
11,100.0	4.67	289.80	11,068.8	260.0	-722.2	409,407.45	778,727.30	32° 7' 23.585 N	103° 33' 59.447
11,200.0	4.67	289.80	11,168.5	262.7	-729.9	409,410.21	778,719.64	32° 7' 23.612 N	103° 33' 59.53
11,300.0	4.67	289.80	11,268.2	265.5	-737.5	409,412.97	778,711.98	32° 7' 23.640 N	103° 33' 59.62
11,400.0	4.67	289.80	11,367.9	268.2	-745.2	409,415.72	778,704.33	32° 7' 23.668 N	103° 33' 59.71
11,500.0	4.67	289.80	11,467.5	271.0	-752.8	409,418.48	778,696.67	32° 7' 23.696 N	103° 33' 59.80
11,529.0	4.67	289.80	11,496.4	271.8	-755.1	409,419.27	778,694.46	32° 7' 23.704 N	103° 33' 59.82
11,600.0	3.25	289.80	11,567.3	273.4	-759.7	409,420.93	778,689.84	32° 7' 23.721 N	103° 33' 59.88
11,700.0	1.25	289.80	11,667.2	274.8	-763.4	409,422.26	778,686.16	32° 7' 23.734 N	103° 33' 59.92
11,762.3	0.00	0.00	11,729.5	275.0	-764.0	409,422.49	778,685.52	32° 7' 23.736 N	103° 33' 59.93
11,800.0	0.00	0.00	11,767.2	275.0	-764.0	409,422.49	778,685.52	32° 7' 23.736 N	103° 33' 59.93
11,812.4	0.00	0.00	11,779.5	275.0	-764.0	409,422.49	778,685.52	32° 7' 23.736 N	103° 33' 59.93
11,900.0	10.52	179.64	11,866.7	267.0	-763.9	409,414.47	778,685.57	32° 7' 23.657 N	103° 33' 59.93
12,000.0	22.52	179.64	11,962.4	238.6	-763.8	409,386.10	778,685.75	32° 7' 23.376 N	103° 33' 59.93
12,100.0	34.52	179.64	12,050.1	191.0	-763.5	409,338.45	778,686.05	32° 7' 22.905 N	103° 33' 59.93
12,200.0	46.52	179.64	12,126.0	126.1	-763.1	409,273.60	778,686.46	32° 7' 22.263 N	103° 33' 59.93
12,300.0	58.52	179.64	12,186.7	46.9	-762.6	409,194.40	778,686.96	32° 7' 21.479 N	103° 33' 59.93
12,400.0	70.52	179.64	12,229.7	-43.2	-762.0	409,104.30	778,687.54	32° 7' 20.588 N	103° 33' 59.93
12,500.0	82.52	179.64	12,252.9	-140.3	-761.4	409,007.24	778,688.15	32° 7' 19.627 N	103° 33' 59.93
12,562.4	90.00	179.64	12,257.0	-202.5	-761.0	408,945.05	778,688.55	32° 7' 19.012 N	103° 33' 59.93
12,600.0	90.00	179.64	12,257.0	-240.1	-760.7	408,907.42	778,688.78	32° 7' 18.639 N	103° 33' 59.93
12,700.0	90.00	179.64	12,257.0	-340.1	-760.1	408,807.42	778,689.42	32° 7' 17.650 N	103° 33' 59.93
12,800.0	90.00	179.64	12,257.0	-440.1	-759.5	408,707.43	778,690.05	32° 7' 16.660 N	103° 33' 59.93
12,900.0	90.00	179.64	12,257.0	-540.1	-758.8	408,607.43	778,690.69	32° 7' 15.671 N	103° 33' 59.93
13,000.0	90.00	179.64	12,257.0	-640.1	-758.2	408,507.44	778,691.32	32° 7' 14.681 N	103° 33' 59.94
13,100.0	90.00	179.64	12,257.0	-740.1	-757.6	408,407.44	778,691.96	32° 7' 13.692 N	103° 33' 59.94
13,200.0	90.00	179.64	12,257.0	-840.1	-756.9	408,307.45	778,692.59	32° 7' 12.702 N	103° 33' 59.94
13,300.0	90.00	179.64	12,257.0	-940.1	-756.3	408,207.45	778,693.22	32° 7' 11.713 N	103° 33' 59.94
13,400.0	90.00	179.64	12,257.0	-1,040.1	-755.7	408,107.45	778,693.86	32° 7' 10.723 N	103° 33' 59.94
13,500.0	90.00	179.64	12,257.0	-1,140.1	-755.0	408,007.46	778,694.49	32° 7' 9.733 N	103° 33' 59.94
13,600.0	90.00	179.64	12,257.0	-1,240.1	-754.4	407,907.46	778,695.13	32° 7' 8.744 N	103° 33' 59.94
13,700.0	90.00	179.64	12,257.0	-1,340.1	-753.8	407,807.47	778,695.76	32° 7' 7.754 N	103° 33' 59.94
13,800.0	90.00	179.64	12,257.0	-1,440.1	-753.1	407,707.47	778,696.40	32° 7' 6.765 N	103° 33' 59.94
13,900.0	90.00	179.64	12,257.0	-1,540.1	-752.5	407,607.48	778,697.03	32° 7' 5.775 N	103° 33' 59.94
14,000.0	90.00	179.64	12,257.0	-1,640.1	-751.9	407,507.48	778,697.66	32° 7' 4.786 N	103° 33' 59.94
14,100.0	90.00	179.64	12,257.0	-1,740.1	-751.2	407,407.49	778,698.30	32° 7' 3.796 N	103° 33' 59.95
14,200.0	90.00	179.64	12,257.0	-1,840.1	-750.6	407,307.49	778,698.93	32° 7' 2.807 N	103° 33' 59.95
14,300.0	90.00	179.64	12,257.0	-1,940.1	-750.0	407,207.50	778,699.57	32° 7' 1.817 N	103° 33' 59.95
14,400.0	90.00	179.64	12,257.0	-2,040.1	-749.3	407,107.50	778,700.20	32° 7' 0.828 N	103° 33' 59.95
14,500.0	90.00	179.64	12,257.0	-2,140.0	-748.7	407,007.51	778,700.84	32° 6′ 59.838 N	103° 33' 59.95
14,600.0	90.00	179.64	12,257.0	-2,240.0	-748.0	406,907.51	778,701.47	32° 6′ 58.849 N	103° 33' 59.95
14,700.0	90.00	179.64	12,257.0	-2,340.0	-747.4	406,807.51	778,702.10	32° 6′ 57.859 N	103° 33' 59.95
14,800.0	90.00	179.64	12,257.0	-2,440.0	-746.8	406,707.52	778,702.74	32° 6′ 56.870 N	103° 33' 59.95
14,900.0	90.00	179.64	12,257.0	-2,540.0	-746.1	406,607.52	778,703.37	32° 6' 55.880 N	103° 33' 59.95
15,000.0	90.00	179.64	12,257.0	-2,640.0	-745.5	406,507.53	778,704.01	32° 6' 54.890 N	103° 33' 59.95
15,100.0	90.00	179.64	12,257.0	-2,740.0	-744.9	406,407.53	778,704.64	32° 6' 53.901 N	103° 33' 59.95
15,200.0	90.00	179.64	12,257.0	-2,840.0	-744.2	406,307.54	778,705.27	32° 6′ 52.911 N	103° 33' 59.95
15,300.0	90.00	179.64	12,257.0	-2,940.0	-743.6	406,207.54	778,705.91	32° 6' 51.922 N	103° 33' 59.96
15,400.0	90.00	179.64	12,257.0	-3,040.0	-743.0	406,107.55	778,706.54	32° 6' 50.932 N	103° 33' 59.96
15,500.0	90.00	179.64	12,257.0	-3,140.0	-742.3	406,007.55	778,707.18	32° 6' 49.943 N	103° 33' 59.96
15,600.0	90.00	179.64	12,257.0	-3,240.0	-741.7	405,907.56	778,707.81	32° 6' 48.953 N	103° 33' 59.96
15,700.0	90.00	179.64	12,257.0	-3,340.0	-741.1	405,807.56	778,708.45	32° 6' 47.964 N	103° 33' 59.96
15,800.0	90.00	179.64	12,257.0	-3,440.0	-740.4	405,707.57	778,709.08	32° 6' 46.974 N	103° 33' 59.96

Planning Report - Geographic

Database: Old

Company: BTA Oil Producers, LLC
Project: Lea County, NM (NAD 83)

 Site:
 Rojo

 Well:
 Rojo #47H

 Wellbore:
 Wellbore #1

 Design:
 Design #1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Rojo #47H GL @ 3367.0usft GL @ 3367.0usft

Grid

Minimum Curvature

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	179.64	12,257.0	-3,540.0	-739.8	405,607.57	778,709.71	32° 6′ 45.985 N	103° 33' 59.966 W
16,000.0	90.00	179.64	12,257.0	-3,640.0	-739.2	405,507.57	778,710.35	32° 6′ 44.995 N	103° 33' 59.967 W
16,100.0	90.00	179.64	12,257.0	-3,740.0	-738.5	405,407.58	778,710.98	32° 6′ 44.006 N	103° 33' 59.968 W
16,200.0	90.00	179.64	12,257.0	-3,840.0	-737.9	405,307.58	778,711.62	32° 6' 43.016 N	103° 33' 59.968 W
16,300.0	90.00	179.64	12,257.0	-3,940.0	-737.3	405,207.59	778,712.25	32° 6' 42.027 N	103° 33' 59.969 W
16,400.0	90.00	179.64	12,257.0	-4,040.0	-736.6	405,107.59	778,712.89	32° 6' 41.037 N	103° 33' 59.970 W
16,500.0	90.00	179.64	12,257.0	-4,140.0	-736.0	405,007.60	778,713.52	32° 6' 40.047 N	103° 33' 59.971 W
16,600.0	90.00	179.64	12,257.0	-4,240.0	-735.4	404,907.60	778,714.15	32° 6′ 39.058 N	103° 33' 59.972 W
16,700.0	90.00	179.64	12,257.0	-4,340.0	-734.7	404,807.61	778,714.79	32° 6′ 38.068 N	103° 33' 59.973 W
16,800.0	90.00	179.64	12,257.0	-4,440.0	-734.1	404,707.61	778,715.42	32° 6′ 37.079 N	103° 33' 59.974 W
16,900.0	90.00	179.64	12,257.0	-4,540.0	-733.5	404,607.62	778,716.06	32° 6′ 36.089 N	103° 33' 59.975 W
17,000.0	90.00	179.64	12,257.0	-4,640.0	-732.8	404,507.62	778,716.69	32° 6' 35.100 N	103° 33' 59.976 W
17,100.0	90.00	179.64	12,257.0	-4,740.0	-732.2	404,407.63	778,717.33	32° 6′ 34.110 N	103° 33' 59.977 W
17,200.0	90.00	179.64	12,257.0	-4,840.0	-731.6	404,307.63	778,717.96	32° 6′ 33.121 N	103° 33' 59.977 W
17,300.0	90.00	179.64	12,257.0	-4,940.0	-730.9	404,207.63	778,718.59	32° 6′ 32.131 N	103° 33' 59.978 W
17,300.5	90.00	179.64	12,257.0	-4,940.5	-730.9	404,207.10	778,718.60	32° 6′ 32.126 N	103° 33' 59.978 W

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Rojo #47H BHL - plan hits target cent - Point	0.00 ter	0.00	12,257.0	-4,940.5	-730.9	404,207.10	778,718.60	32° 6′ 32.126 N	103° 33' 59.978 W

District 1 1625 N. French Dr., Hobbs, NM 88240 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

Submit Original to Appropriate District Office

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Date: 3/11/2020	GAS CAPTURE PLAN	
□ Original	Operator & OGRID No.:	260297
☐ Amended - Reason for Amendment:		
This Gas Capture Plan outlines actions new completion (new drill, recomplete	to be taken by the Operator to reduct to new zone, re-frac) activity.	ce well/production facility flaring/venting for
Note: Form C-129 must be submitted and ap	proved 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.

e	well(s) that will be loca	ned at the	production facility a	I C SHOWII III	the turne oci		1
ſ	Well Name	API	Well Location	Footages	Expected	Flared or	Comments
	W CH I Vallio		(ULSTR)		MĈF/D	Vented	
Ì	ROJO 7811 22		SEC 22; 25S; 33E	295 FNL 1424 FWL	2000	Flared	Battery Connected
ŀ							To ETP System
- (FEDERAL COM 47H						

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
 - o Gas flared would be minimal, but might be uneconomical to operate when gas volume declines
- NGL Removal On lease

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BOP Break Testing Request

BTA requests permission to allow BOP Break Testing under the following conditions:

- After a full BOP test is conducted on the first well on the pad.
- When skidding to drill a hole section that does not penetrate into the Wolfcamp.
- Full BOP test will be required prior to drilling any production hole.



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

Publication RP-001 October 21, 2010

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\	WFT Casing Head (Slip on Weld with O-Ring)	Approved By:	Reviewed By:	RP-001
Weatherford	Running Procedure	BO	Bruco J. Ross	Rev 0
5-2-GL-GL-WES-00052	49 PM	Date: Oct 21, 2010	Date: Oct 21, 2010	

Install the Casing Head

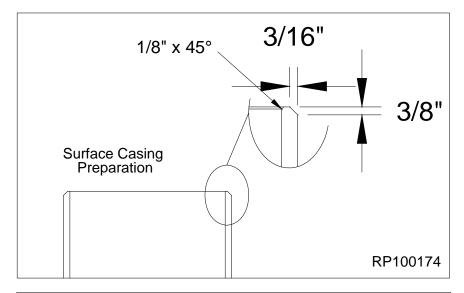
- Examine the WFT Casing Head. Verify the following:
 - bore is clean and free of debris
 - seal areas, threads and ring grooves are clean and undamaged
 - o-ring is properly installed, clean and undamaged
 - all peripheral equipment is intact and undamaged
- 2. Measure the pocket depth of the Casing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

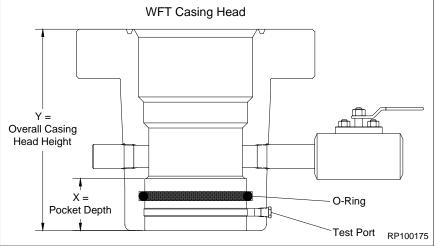
X = Pocket Depth

Y = Overall Casing Head Height

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

- Lift the riser assembly high enough to rough cut the surface casing a minimum of 12" above the anticipated final cut location, if applicable.
- Remove the spent portion of surface casing and the riser assembly and set aside.
- Determine the correct elevation for the wellhead assembly.
- Rough cut the surface casing a minimum of 12" above the final cut location.
- 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-Ring) Running Procedure

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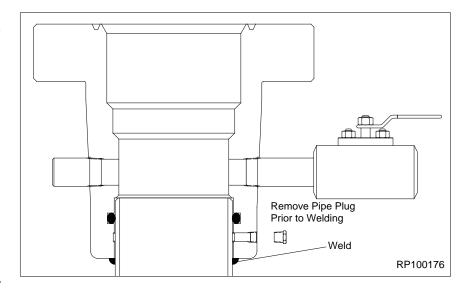
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Install the Casing Head

 Wipe the ID of the o-ring of the Casing Head with a light coat of oil or grease.

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

- 15. Lower the Casing Head over the surface casing stub to a positive stop.
- 16. Remove the fitting from the test port and set aside.
- 17. Orient the Casing Head as per the Drilling Superintendents instructions ensuring the face of the Casing Head is level and two holed to the drilling rig substructure.
- Weld and test the surface casing to the Casing Head as per the REC-OMMENDED FIELD WELDING PROCEDURE located in the back of this manual.
- Once all welding and testing is completed, replace the fitting into the open port and close the valve on the Casing Head.



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



Recommended Procedure for Field Welding Pipe to Wellhead Parts for Pressure Seal

 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.
- 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.
- 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 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.

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

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Recommended Procedure for Field Welding Pipe to Wellhead Parts for Pressure Seal (continued)

- 7. Welding Technique. Use a 1/8 or 5/32-inch (3.2 or 4.0 mm) E6010 or E7018 electrode and step weld the first bead (root pass); that, weld approximately 2 to 4 inches (50 to 100 mm) and then move diametrically opposite this point and weld 2 to 4 inches (50 to 100 mm) halfway between the first two welds, move diametrically opposite this weld, and so on until the first pass is completed. This second pass should be made with a 5/32-inch (4.0 mm) low hydrogen electrode of the proper strength and may be continuous. The balance of the welding groove may then be filled with continuous passes without back stepping or lacing, using a 3/16-inch (4.8 mm) low hydrogen electrode. All beads should be stringer beads with good penetration. There should be no undercutting and weld shall be workmanlike in appearance.
 - **a.** Test ports should be open when welding is performed to prevent pressure buildup within the test cavity.
 - **b.** During welding the temperature of the base metal on either side of the weld should be maintained at 200 to 300°F (93 to 149°C).
 - **c.** Care should be taken to insure that the welding cable is properly grounded to the casing, but ground wire should not be welded to the casing or the wellhead. Ground wire should be firmly clamped to the casing, the wellhead, or fixed in position between pipe slips. Bad contact may cause sparking, with resultant hard spots beneath which incipient cracks may develop. The welding cable should not be grounded to the steel derrick, nor to the rotary-table base.
- Cleaning. All slag or flux remaining on any welding bead should be removed before laying the next bead. This also applies to the completed weld.
- Defects. Any cracks or blow holes that appear on any bead should be removed to sound metal by chipping or grinding before depositing the next bead.
- 10. Postheating. Post-heating should be performed at the temperatures shown below and held at that temperature for no less than one hour followed by a slow cooling. The post-heating temperature should be in accordance with the following paragraphs.
 - **a.** Wellhead members containing o-rings and other polymeric seals have tight limits on the post-heating temperatures. Those temperatures must be controlled at 250°F to 300°F or 120 °C to 150°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 post-heated at a temperature of 400°F to 600°F or 200°C to 300°C.

- 11. Cooling. Rapid cooling must be avoided. To assure slow cooling, welds should be protected from extreme weather conditions (cold, rain, high winds, etc.) by the use of suitable insulating material. (Specially designed insulating blankets are available at many welding supply stores.) Particular attention should be given to maintaining uniform cooling of the thick sections of the wellhead parts and the relatively thin casing, as the relatively thin casing will pull away from the head or hanger if allowed to cool more rapidly. The welds should cool in air to less than 200°F (93°C) (measured with a heat sensitive crayon) prior to permitting the mud to rise in the casing.
- **12. Test the Weld.** After cooling, test the weld. The weld must be cool otherwise the test media will crack the weld. The test pressure should be no more than 80% of the casing collapse pressure.

Test Media			
Acceptable Medias	Unacceptable Medias		
Water Water Soluable Oil Inert Gas •Nitrogen •Argon Gas	Oxygen Acetylene Hydraulic Oil Motor Oil Brake Fluid		

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





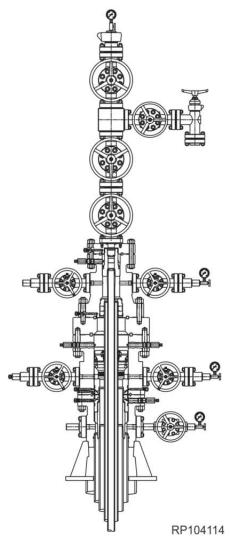
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Wellhead Field Service Manual

WFT-SB Wellhead System Running Procedure

Publication: SM-11-1

Release Date: December 2014



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5-3-GL-WES-00XXX

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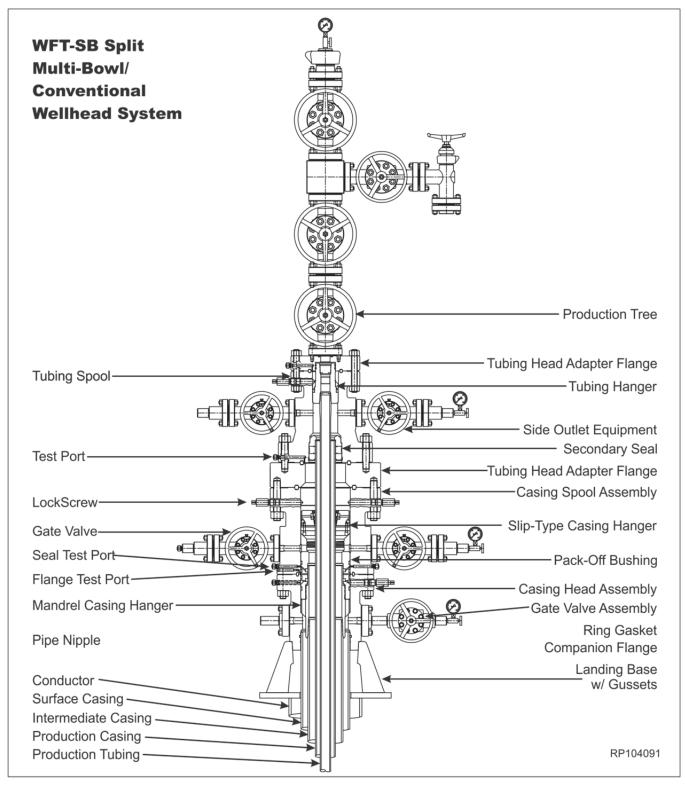
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WFT Split Bowl (SB) Wellhead System



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WFT Split Bowl (SB) Multi-Bowl/Conventional Wellhead System (Continued)

WFT-SB Casing Head/Spool Assembly Rig Up and Installation

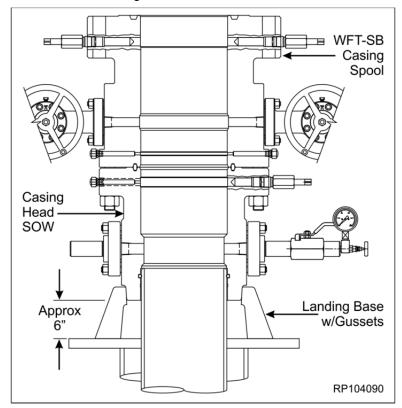
 Determine the correct elevation for the wellhead system, and cut the conductor pipe at a comfortable elevation, below the surface casing final cut.

NOTE

Ensure that the cut on the conductor is level, as this will determine the orientation of all remaining wellhead equipment.

- 2. Remove any excess conductor pipe and set aside.
- Grind the conductor pipe and remove any sharp edges, ensuring that the conductor pipe cut is level.
- Run the surface casing to the required depth and cement casing in place.
 Allow the cement to set.
- Lift the blow-out preventer (BOP) or diverter and prepare to cut off the surface casing at a sufficient height above the cellar deck to facilitate the installation of the WFT-SB Casing Head/Spool Assembly with Base Plate.
- Once the surface casing is released from the rig floor, cut it approximately 12 inches (or more) above the final cut location.
- 7. Remove the excess surface casing, and the BOP or diverter, and set aside.
- Bevel the surface casing outer diameter (3/16" x 3/8") and inner diameter (1/8" x 45 degrees). Remove any sharp edges.

- 9. Examine the Casing Head with Slip-On Weld (SOW) bottom prep. Verify the following:
- O-ring seal, bore, ports and exposed ring grooves are clean and in good condition.
- Test fittings, studs and nuts, valves, flanges and bull plugs are intact and in good condition.

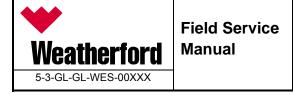


- Determine the correct elevation for the wellhead assembly.
 Measure depth of the surface casing socket in SOW with Oring bottom prep.
- 11. Lightly lubricate the casing stub with an oil or light grease.



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

 Align and level the WFT-SB Casing Head/Spool Assembly over the casing stub, orienting the outlets to drilling equipment, per the drilling supervisor's direction.



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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

- 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.

NOTE

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.

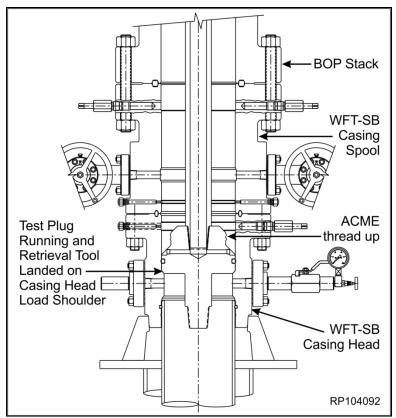
NOTE

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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- Open lower casing head side outlet valve. Monitor any leakage past the test plug seal.
- 8. Close the BOP rams on the drill pipe, and test to **5,000 psi or as required by the drilling supervisor**.
- 9. After a satisfactory test is achieved, release pressure and open the rams.
- 10. Remove as much fluid from the BOP stack as possible.
- 11. Retrieve the test plug assembly slowly to avoid damage to the seal.
- 12. Close all outlet valves on WFT-SB Casing Head/Spool Assembly.
- 13. Repeat Steps 1 thru 12, as required during drilling of the hole.

Running and Retrieval of the Long Bowl Protector

NOTE

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

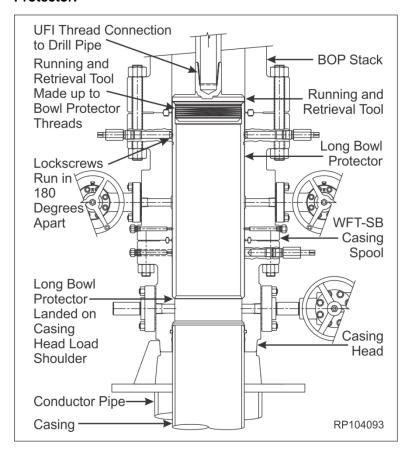
Running in the Bowl Protector prior to Drilling

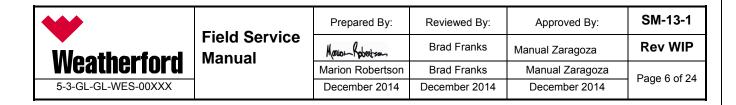
- Examine the Long Bowl Protector. Verify the following:
 - Bore drift is correct size, clean, in good condition, and free of debris
 - · Threads are clean and undamaged
 - O-ring seals are properly installed, clean, and undamaged.

- 2. Examine the Bowl Protector Running/Retrieval Tool. Verify the following:
 - Threads are clean, undamaged and free of debris
 - Ports are clean and unobstructed.
 - Drill Pipe threads are correct size, clean and in good condition.
- 3. Orient the Bowl Protector Running Tool with Acme threads down.



Ensure that the left hand (LH) Acme threads are down prior to engaging Bowl Protector Running Tool into Long Bowl Protector.





- 4. Make-up a drill pipe joint to the Running Tool.
- 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.
- 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.
- Slowly lower the retrieval tool through the BOP Stack into the Bowl Protector.
- 3. 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.

NOTE

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.

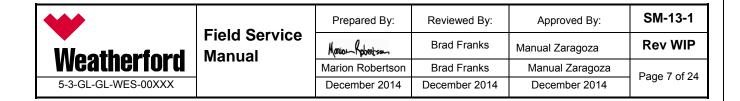
NOTE

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.
- 4. 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.
- 5. 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.



 Liberally lubricate the outer diameter of the hanger neck and inner diameter of the running tool O-ring seals with a light oil or grease.



Do NOT use pipe dope or other metal based compounds. This will cause galling.

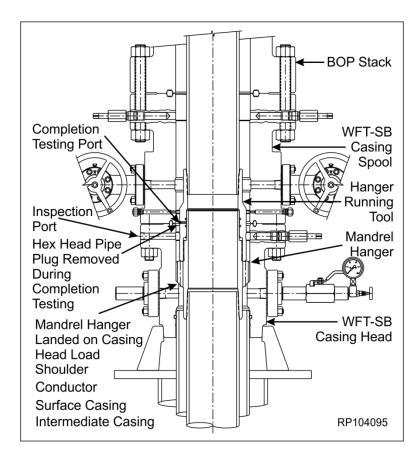
7. Maintaining a neutral weight, rotate the hanger running tool with chain tongs, first clockwise until a thread "jump" can be felt, then counterclockwise, approximately eight turns, to a positive stop, and then back off (clockwise) one quarter (1/4) turn.



Do NOT torque the running tool to the casing hanger connection. Do NOT back off more than one quarter (1/4) turn.

- 8. Remove the flush fitting hex head pipe plug from the outer diameter of the running tool and attach a test pump.
- Apply hydraulic test pressure to 5,000 psi and hold for 15 minutes or as required by the drilling supervisor.
- Upon completion of a successful test, bleed off test pressure through the test pump and remove the pump. Replace the pipe plug.
- Locate indicator groove machined in outer diameter of Running Tool, coat with white paint.

- 12. Verify that all lockscrews in the WFT-SB casing head/casing spool assembly are fully retracted.
- 13. Slowly and carefully lower the mandrel hanger through the BOP stack, and land the hanger onto the casing head load shoulder.
- 14. Slack off weight on the casing.
- 15. Check that the well is stable and no pressure buildup or mud flow is occurring.



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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."
- 18. 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.

NOTE

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

NOTE

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.

- 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.
- 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.
- 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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13. Once the hanger has landed securely on the casing head bowl load shoulder, pull tension on the casing to the desired hanging weight, and then slack off.

NOTE

A sharp decrease on weight indicator will signify that the hanger has taken weight. If this does not occur, pull tension again and slack once more.

- 14. Rough cut the casing approximately eight inches, or more, above the top of the casing head flange. Remove the excess casing.
- 15. Final cut the casing at 2 1/2" +/- 1/8" above casing head flange.
- Bevel the casing outer diameter (1/4" x 30 degrees) and inner diameter (1/8" x 30 degrees).
- 17. Remove and discard the used gasket ring from the casing head.
- 18. Clean the mating ring grooves on the WFT-SB casing spool and casing head. Lightly wipe with oil or grease.

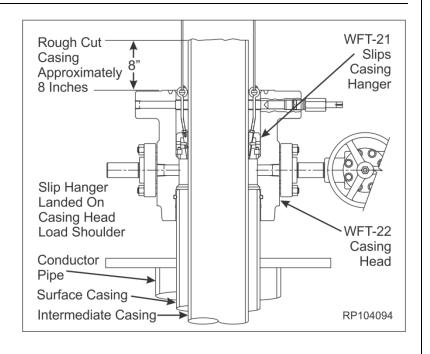


Excessive oil or grease will prevent a positive seal from forming.

- 19. Install a new appropriately sized ring gasket into the casing head groove.
- Loosely reconnect or make up the WFT-SB casing spool to the casing head.



The casing spool to casing head connection will be fully tightened after the pack-off bushing is run and proper setting is verified.



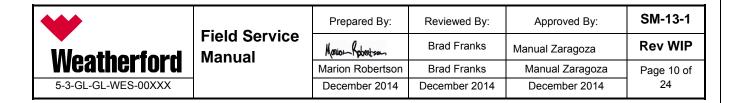
Installation of the Pack-Off Bushing and Energizing the P-Seals

WFT-SB Pack-Off Bushing Installation

NOTE

Installation procedure is identical for both Standard and Emergency WFT-SB Pack-Off Bushings.

- 1. Determine which pack-off bushing to use:
 - If casing has been run normally and is hung off with a mandrel casing hanger, use a standard packoff bushing.
- 2. Examine the appropriate pack-off bushing. Verify the following:
 - All elastomer seals are in place and undamaged.
 - Bore, ports and alignment lugs are clean and in good condition.
 - Coat the lockscrew relief groove with white paint.
- Liberally lubricate the inner diameter of the double P-seal grooves and outer diameter of dovetail seals with a light oil or grease.



- 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.
- Run two or three stands of heavy weight drill pipe or collars in the hole and set floor slips.

NOTE

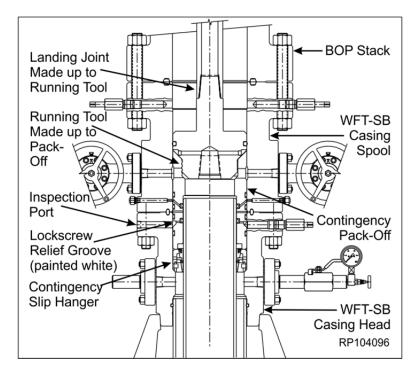
Use heavy weight drill pipe or drill collars. Weight required to push Pack-Off Bushing into Casing Head, over Mandrel Hanger slick neck, is approximately 14,000 lbs.



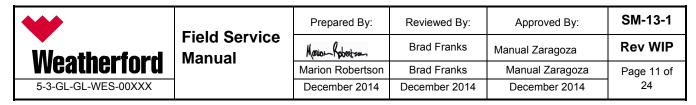
When lowering the drill pipe into the well, extreme caution must be taken to not damage the top of the mandrel hanger with the end of the drill pipe. It is recommended that the drill pipe be centralized to the hanger inner diameter, as closely as possible, when entering the hanger.

- 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.

 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



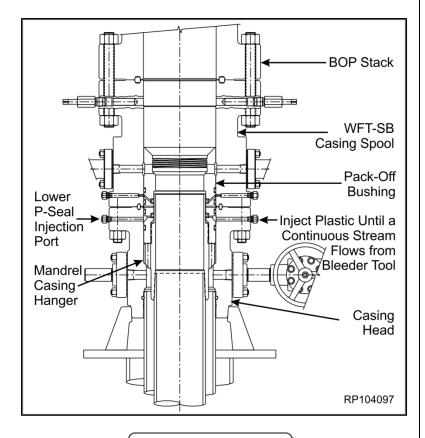
right), coming to a stop and carefully lift tool to Drill Floor, set aside.

NOTE

If the Contingency Pack-Off Bushing is being installed, it is now necessary to make up the Speed Head Casing Head/Casing Spool connection. Tighten all studs in an alternating cross pattern until the flange bolting is fully made up.

Energizing the P-Seals

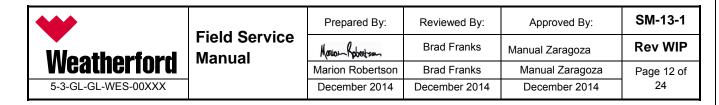
- Locate the two lower injection fittings ("INJ"), located 180 degrees apart on the casing head. Remove the dust cap from one fitting and remove the second fitting entirely.
- Attach a bleeder tool to the injection fitting without the dust cap, in the casing head. Open the bleeder tool.
- Attach a plastic injection tool to the open port and inject plastic packing into the port until a continuous stream flows from the bleeder tool. Close the bleeder tool.
- Remove the injection tool. Reinstall the injection fitting into the open port and remove the dust cap. Reattach the injection tool.
- Continue injecting plastic packing to 5,000 psi. or to 80% of casing collapse pressure, whichever is less.



NOTE

The strength of a mandrel casing hanger slick neck is equivalent to P110 Grade casing with the same weight as run in the casing string.

- 6. Hold and monitor pressure for 15 minutes or as required by the drilling supervisor.
- If pressure drops, the plastic packing has not filled the seal area completely. Open the bleeder tool, bleed off the pressure and repeat Steps 5 and 6, until pressure is stabilized.
- 8. Remove the plastic injection tool and bleeder tool. Reinstall the dust caps on both injection fittings.
- 9. Repeat Steps 1 thru 8 to pack off and energize the upper P-Seal.



- 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.
- 12. 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:

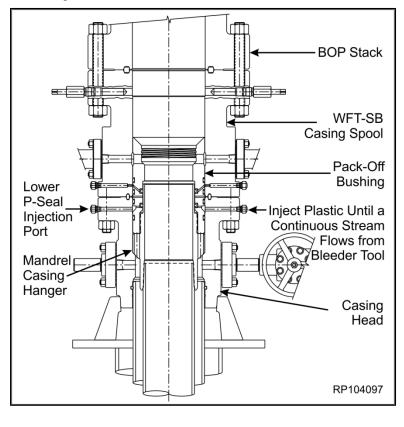
Leak Location	Cause	Action
Into the bore of the casing head	Upper P- seal leaking	Bleed off pressure and re-inject plastic packing into leaking upper P- seal port.
Around the casing	Lower P- Seal leaking	Bleed off pressure and re-inject plastic packing into lower P-seal port.

- 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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Retesting the BOP Stack

- Examine the Test Plug/Running Tool.
 Verify the following:
 - Elastomer seals are intact and in good condition.
 - Drill pipe threads are clean and in good condition.

NOTE

Immediately after testing the support bushing seals and periodically during conditioning of the hole prior to running tubing, the BOP stack (flanged connections and rams) must be tested.

Orient the test plug with elastomer down/ACME threads up. Make up a joint of drill pipe to the test plug.

NOTE

Remove the pipe plug from the weep port if pressure is to be supplied through the drill pipe.



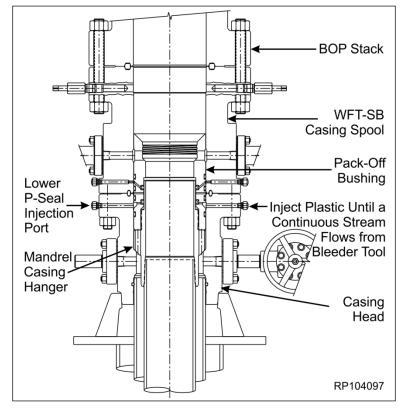
Make sure the elastomer is down and ACME threads are up when testing.

3. Fully retract all lockscrews in the upper WFT-SB Spool Assembly.

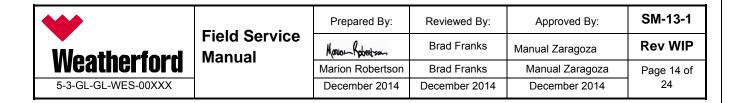


Do NOT retract the lockscrews located in the casing head (lower flange). Doing so could allow the pack-off support bushing to rise out of position.

4. Lubricate the test plug elastomer seal with light oil or grease.



- 5. Lower the test plug through the BOP stack into the WFT-SB spool assembly until it lands on top of the pack-off bushing.
- 6. Open the upper WFT-SB casing spool side outlet valves. Monitor for any leakage past the test plug seal.
- 7. Close the BOP rams on the drill pipe and test to **10,000 psi** or as required by the drilling supervisor.
- 8. After a satisfactory test is achieved, release all pressure and open the rams.
- 9. Remove as much fluid from the BOP stack as possible.
- 10. Retrieve the test plug assembly slowly to avoid damage to the seal.
- 11. Close all outlet valves on the WFT-SB casing head/spool assembly.



Running and Retrieving the Short Bowl Protector

NOTE

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).
- 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.



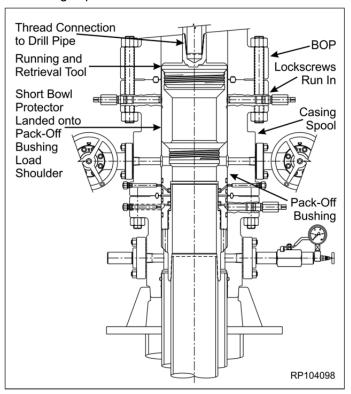
Do NOT retract the lower lockscrews located in the WFT-SB casing head, as this could allow the pack-off bushing to rise out of position.

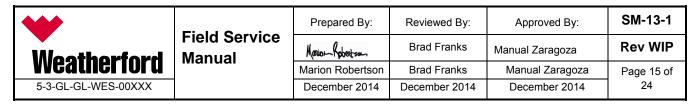
6. On the upper WFT-SB spool assembly, run in two lockscrews ("snug" tight ONLY), 180 degrees apart, to hold the bowl protector in place.



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.





Retrieval of the Short Bowl Protector After Drilling

- 1. Make up the retrieval tool to the drill pipe with ACME threads down.
- 2. Slowly lower the retrieval tool into the bowl protector.
- Rotate the retrieval tool counterclockwise, two turns, to engage with the bowl protector ACME threads.
- Fully retract both lockscrews on the casing spool (upper flange), and retrieve the bowl protector.
- 5. Remove the bowl protector and retrieval tool from the drill string.

Running the Production Casing

1. Run the production casing to necessary depth and cement as required.

NOTE

There are two methods for installing WFT-22 Slip Type Casing Hangers:

- Under the BOP stack.
- Through the BOP stack.

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

- 1. Drain the casing head through the uppermost side outlet valve.
- 2. Lift and suspend the BOP stack above the WFT-SB spool assembly to a minimum of 18 inches.
- Wash out the WFT-SB casing head/spool assembly as required.
- Confirm that ONLY the lockscrews in the casing spool (upper flange) are fully retracted.

- 5. Examine the WFT-22 slip-type casing hanger. Verify the following:
 - Slip segments are clean and undamaged.
 - All screws are in place.
 - Packing element is clean and undamaged.

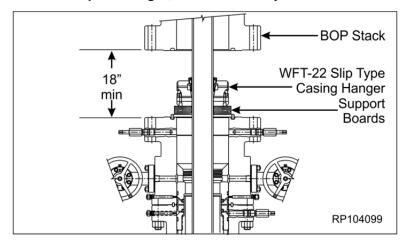


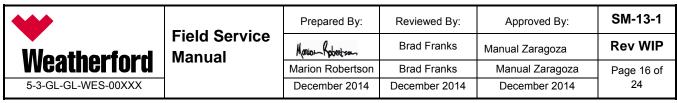
The packing element should not protrude past the casing hanger outer diameter. If the packing element does extend past the outer diameter, loosen the cap screws in the bottom of the hanger.

- 6. Place two boards across the casing spool face, against the casing, to support the hanger.
- 7. Disengage the spring loaded latch, open the hanger and wrap the hanger around the casing, allowing the support boards to carry weight.
- 8. Re-engage the casing hanger spring loaded latch.
- 9. Remove the slip retaining cap screws from the outer diameter of the hanger body, allowing the slip segments to settle around the casing.
- 10. Supporting the weight of the casing hanger, remove the support boards and lower the hanger into the WFT-SB casing head/spool assembly until it lands on the pack-off bushing load shoulder.



Do NOT drop the hanger; lower it carefully.





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

- 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.



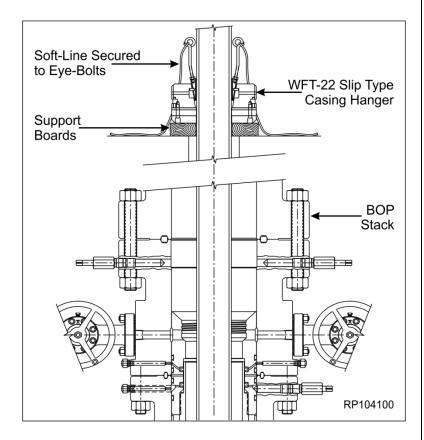
The packing element should not protrude past the casing hanger outer diameter. If the packing element does extend past the outer diameter, loosen the cap screws in the bottom of the hanger.

- 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.
- Measure the distance from the top flange of the WFT-SB casing spool to the drilling rig floor (RKB).
- 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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- Remove the slip retaining cap screws from the outer diameter of the hanger body, allowing the slip segments to settle around the casing.
- 13. Supporting the weight of the casing hanger, remove the support boards and carefully lower the hanger through the BOP stack into the WFT-SB casing head/spool assembly, until it securely lands on the pack-off bushing load shoulder.



Do NOT drop hanger; lower it carefully.

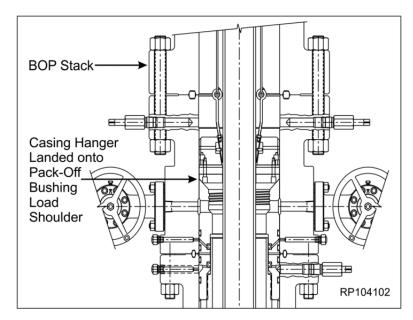
Hanging off the Production Casing

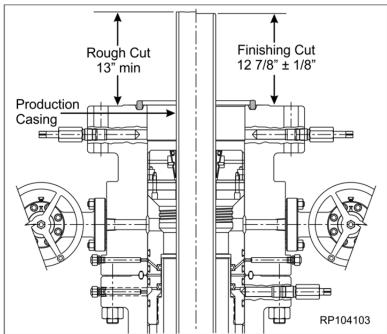
 With the casing hanger now landed onto the pack-off bushing load shoulder, pull tension on the casing to the desired hanging weight, and then slack off.

NOTE

A sharp decrease on the weight indicator will signify that the hanger has taken weight. If this does not occur, pull tension again and slack off once more.

- 2. Rough cut casing approximately 16" above top of WFT-SB Spool top flange. Remove excess casing.
- 3. Carefully remove BOP stack, set aside.
- Final cut the casing at about 12 7/8" +/1/8" above the face of the WFT-SB
 spool, which will allow room for the
 double studded adapter flange.
- 5. Grind the casing stub level and bevel the casing outer diameter (1/4" x 1/8") and inner diameter (1/8" x 45 degrees).





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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.

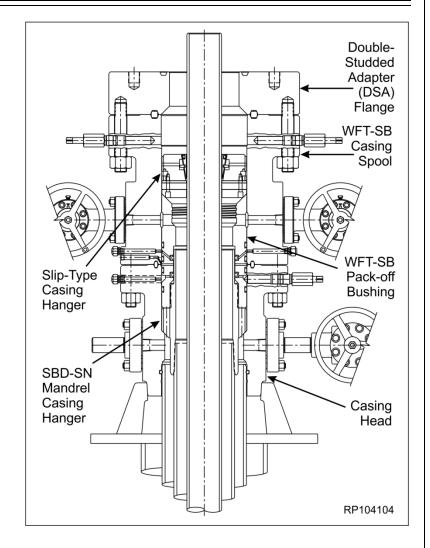


Excessive oil or grease will prevent a positive seal from forming.

- Install a new appropriately sized ring gasket into the WFT-SB spool assembly groove.
- 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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Installation and Testing of the Tubing Spool Assembly

Installation of the TCM Tubing Spool Assembly

- 1. Examine the tubing spool assembly. Verify the following:
 - bore is clean and free of debris
 - ring grooves and seals are clean and undamaged
 - PE-seal assembly is properly installed, clean and undamaged.
- Thoroughly clean the mating ring grooves of the WFT-TCM Tubing Spool and WFT-SB Casing Spool.
- Lightly lubricate the inner diameter of the PE-seal and outer diameter of the casing stub 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 casing spool assembly groove.
- Orient the tubing spool assembly as required and carefully lower it over the casing stub, until it lands on the ring gasket.
- Make up the flange connection with the appropriate studs and nuts, tightening in an alternating cross pattern, as required by API 6A.

Testing the Secondary Seal and Flange Connection Test

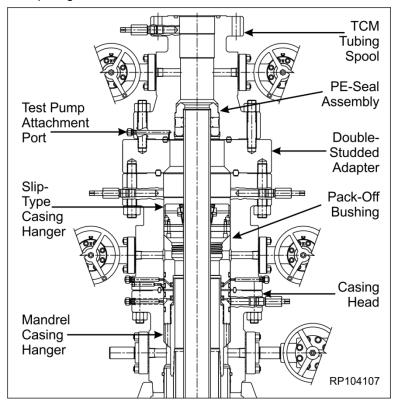
- Locate the test port fitting on the OD of the tubing spool lower flange. Remove the dust cap from the fitting.
- 2. Attach a test pump to the test port fitting.

- Pump clean test fluid into the void area between the flanges until a test pressure of 10,000 psi or 80% of casing collapse pressure is attained, whichever is lower.
- 4. Hold and monitor pressure for 15 minutes or as required by the drilling supervisor.
- 5. Once a satisfactory test is achieved, carefully bleed off pressure and remove the test pump
- 6. Attach a 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.

- 7. Remove the bleeder tool and reinstall the dust cap on the test port fitting.
- 8. Install a new appropriately sized ring gasket into the tubing spool groove.



Weatherford
Weatherford
5-3-GL-GL-WES-00XXX

Prepared By:	Reviewed By:	Approved By:	SM-13-1
Monitor Brad Franks		Manual Zaragoza	Rev WIP
Marion Robertson	Brad Franks	Manual Zaragoza	Page 20 of
December 2014	December 2014	December 2014	24
	Marion Robertson	Marion Robertson Brad Franks Marion Robertson Brad Franks	Brad Franks Manual Zaragoza Marion Robertson Brad Franks Manual Zaragoza

Testing the BOP

NOTE

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.

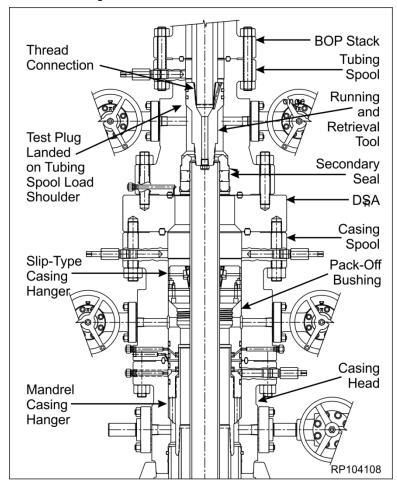
- 1. Examine the test plug. Verify that:
 - O-ring seals and plugs are properly installed, clean and undamaged.
 - All threads are clean and undamaged.
- 2. Orient the test plug with O-ring seals up and drill pipe pin connection down.
- 3. Make up a joint of drill pipe to the top of the test plug.

NOTE

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.
- 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.



Weatherford
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5-3-GL-GL-WES-00XXX

Prepared By:	Reviewed By:	Approved By:	SM-13-1
Manion-Robertson	Brad Franks	Manual Zaragoza	Rev WIP
Marion Robertson	Brad Franks	Manual Zaragoza	Page 21 of
December 2014 December 201		December 2014	24

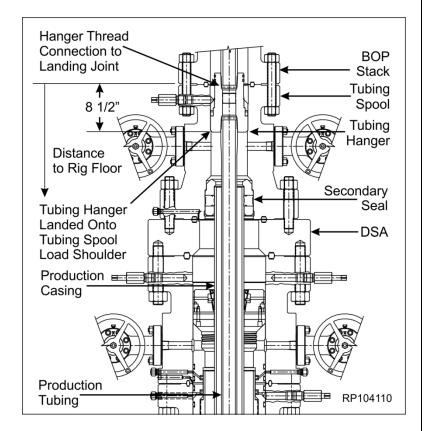
Hanging off the Production Tubing String

- 1. Run the production tubing and space out appropriately for the tubing hanger.
- 2. Examine the TC1AEN Tubing Hanger. Verify the following;
 - Packing element is clean and undamaged.
 - S-seals are properly installed.
 - S-seals are clean and undamaged.
 - All threads are clean and undamaged.
- 3. Make-up a short handling joint to the top of the tubing hanger.
- 4. Pick up the tubing hanger and make it up to the tubing string, tightening the connection to the thread manufacturer's recommended optimum torque value.
- 5. Remove the short handling joint from the top of the hanger. Make up the landing joint to the top of the tubing hanger, tightening the connection to the thread manufacturer's recommended minimum torque values.
- Ensure that all tubing spool lockscrews are fully retracted from the bore and open side outlet valves. Drain the BOP stack.

NOTE

The side outlet valves should remain open while landing the tubing hanger.

- 7. Calculate the distance from the tubing spool load shoulder to the rig floor. Measure from the face of the tubing spool.
- 8. Carefully lower the tubing hanger into the well, tallying the tubing every five feet, until the tubing hanger lands securely on the tubing spool load shoulder.
- 9. Run in all tubing spool lockscrews, in an alternating cross pattern, to 300 ft-lbs, in 75 ft-lb increments.
- 10. Remove the landing joint from the tubing hanger, and set it aside.



~	Field Service	Prepared By:	Reviewed By:	Approved By:	SM-13-1
Woothorford		Manior Robertson	Brad Franks	Manual Zaragoza	Rev WIP
Weatherford	Mariaar	Marion Robertson	Brad Franks	Manual Zaragoza	Page 22 of
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- 11. 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.
- Thoroughly clean all exposed portions of the tubing hanger, tubing head adapter flange and bottom prep of the tubing head adapter.
- 3. Thoroughly clean mating ring grooves of the tubing head adapter flange and WFT-TCM tubing spool.
- Lightly lubricate the tubing hanger neck outer diameter and tubing head adapter flange bottom prep with oil or grease.

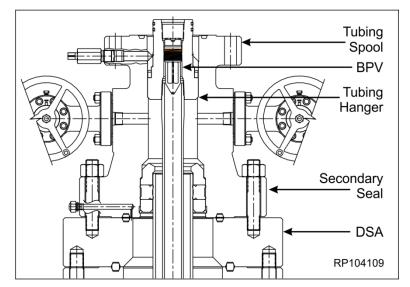


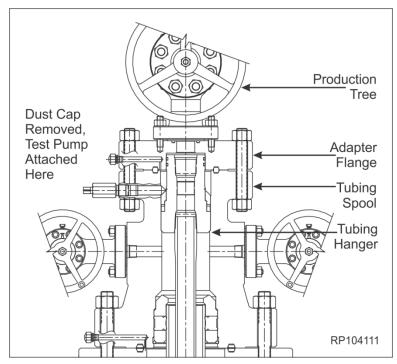
Excessive oil or grease will prevent a positive seal from forming.

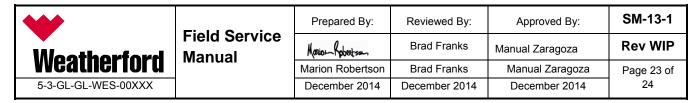
Install a new appropriately sized ring gasket into the WFT-TCM tubing spool groove. 6. Fill the void area around the hanger with hydraulic fluid, to the top of the tubing spool assembly.



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







 Align and level the production tree above the tubing hanger and carefully lower it over the tubing hanger neck, landing it on the ring gasket.



Do NOT damage the hanger neck seals, as this will impair their sealing ability.

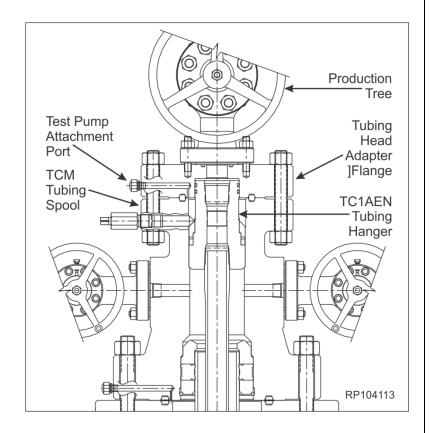
- 8. Make up the connection using the appropriate studs and nuts, and tightening in an alternating cross pattern, as required by API 6A.
- **Testing the Production Tree Connection**
- Locate the test port fitting on the outer diameter of the tubing head adapter flange. Remove the dust cap from the fitting.
- 2. Attach a test pump to test port fitting, and open the pump.
- Pump clean test fluid into void area between flanges, test to 10,000 psi maximum.
- Hold and monitor pressure for 15 minutes or as required by the production supervisor.
- 5. Once a satisfactory test is achieved, carefully bleed off test pressure and remove the test pump.
- 6. Attach a bleeder tool to the test port fitting, and open the tool to vent any remaining trapped pressure.



Always direct the bleeder tool away from people and property.

7. Remove the bleeder tool and reinstall the dust cap on the test port fitting.

- 8. Remove the type 'H' back pressure valve (BPV) through the production tree.
- 9. Ensure that the well is safe and secure by closing all gate valves.



~	Field Comics	Prepared By:	Reviewed By:	Approved By:	SM-13-1
Weatherford Manual	Field Service	Manior Robertson	Brad Franks	Manual Zaragoza	Rev WIP
	Mariaai	Marion Robertson	Brad Franks	Manual Zaragoza	Page 24 of
5-3-GL-GL-WES-00XXX		December 2014	December 2014	December 2014	24

13-3/8" SOW





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

SUPO Data Report

APD ID: 10400055318

Operator Name: BTA OIL PRODUCERS LLC

Well Name: ROJO 7811 22 FEDERAL COM

Well Type: OIL WELL

Submission Date: 03/19/2020

Well Number: 47H

Well Work Type: Drill

Highlighted data reflects the most recent changes

Show Final Text

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

1244_Topographical___Access_Rd_20200319120539.pdf

Existing Road Purpose: ACCESS,FLUID TRANSPORT

Row(s) Exist? NO

ROW ID(s)

ID:

Do the existing roads need to be improved? NO

Existing Road Improvement Description:

Existing Road Improvement Attachment:

Section 2 - New or Reconstructed Access Roads

Will new roads be needed? NO

Section 3 - Location of Existing Wells

Existing Wells Map? YES

Attach Well map:

1244_1_Mile_Radius_20200319120600.pdf

Operator Name: BTA OIL PRODUCERS LLC

Well Name: ROJO 7811 22 FEDERAL COM Well Number: 47H

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

Submit or defer a Proposed Production Facilities plan? DEFER

Estimated Production Facilities description: This well will tie into existing production facilities in the same area.

Section 5 - Location and Types of Water Supply

Water Source Table

Water source type: OTHER

Describe type: PIT

Water source use type: SURFACE CASING

STIMULATION

DUST CONTROL

INTERMEDIATE/PRODUCTION

CASING

Source latitude: Source longitude:

Source datum:

Water source permit type: PRIVATE CONTRACT

Water source transport method: TRUCKING

Source land ownership: FEDERAL

Source transportation land ownership: PRIVATE

Water source volume (barrels): 100000 Source volume (acre-feet): 12.88930963

Source volume (gal): 4200000

Water source and transportation map:

Rojo_7811_22_Federal_Com_47H_and_48H_Water_Transportation_Map_20200319120617.pdf

Water source comments: Water Pit is in SESE Quarter Quarter of SEC 22; T25S; R33E of Lea County, NM

New water well? N

New Water Well Info

Operator Name: BTA OIL PRODUCERS LLC

Well Name: ROJO 7811 22 FEDERAL COM Well Number: 47H

Well latitude: Well Longitude: Well datum:

Well target aquifer:

Est. depth to top of aquifer(ft): Est thickness of aquifer:

Aquifer comments:

Aquifer documentation:

Well depth (ft): Well casing type:

Well casing outside diameter (in.): Well casing inside diameter (in.):

New water well casing?

Used casing source:

Drilling method: Drill material:

Grout material: Grout depth:

Casing length (ft.): Casing top depth (ft.):

Well Production type: Completion Method:

Water well additional information:

State appropriation permit:

Additional information attachment:

Section 6 - Construction Materials

Using any construction materials: YES

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

Construction Materials source location attachment:

Section 7 - Methods for Handling Waste

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 a state approved disposal facility.

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Operator Name: BTA OIL PRODUCERS LLC

Well Name: ROJO 7811 22 FEDERAL COM Well Number: 47H

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 containment attachment:

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

FACILITY

Disposal type description:

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

Waste type: GARBAGE

Waste content description: Trash

Amount of waste: 500 pounds

Waste disposal frequency: One Time Only

Safe containment description: Trash produced during drilling and completion operations will be collected in a trash

container and disposed of properly.

Safe containmant attachment:

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

FACILITY

Disposal type description:

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

Reserve Pit

Reserve Pit being used? NO

Temporary disposal of produced water into reserve pit? NO

Reserve pit length (ft.) Reserve pit width (ft.)

Reserve pit depth (ft.)

Reserve pit volume (cu. yd.)

Is at least 50% of the reserve pit in cut?

Reserve pit liner

Reserve pit liner specifications and installation description

Cuttings Area

Cuttings Area being used? NO

Are you storing cuttings on location? N

Operator Name: BTA OIL PRODUCERS LLC

Well Name: ROJO 7811 22 FEDERAL COM Well Number: 47H

Description of cuttings location

Cuttings area length (ft.)

Cuttings area width (ft.)

Cuttings area depth (ft.) Cuttings area volume (cu. yd.)

Is at least 50% of the cuttings area in cut?

WCuttings area liner

Cuttings area liner specifications and installation description

Section 8 - Ancillary Facilities

Are you requesting any Ancillary Facilities?: N

Ancillary Facilities attachment:

Comments:

Section 9 - Well Site Layout

Well Site Layout Diagram:

Rig_Layout_20190930140859.pdf

20110025_47H_Well_Site_Plan__600s__20200319120802.pdf

Comments: This pad will be an extension of an already existing well pad, the same as the ROJO 7811 JV-P COM #2H.

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance Multiple Well Pad Name: ROJO 7811 FED COM

Multiple Well Pad Number: 2H, 47H, and 48H

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

(acres): 2.1

Road proposed disturbance (acres):

Powerline proposed disturbance

(acres): 0

Pipeline proposed disturbance

(acres):

Other proposed disturbance (acres): 0

Well pad interim reclamation (acres): 0 Well pad long term disturbance

Road interim reclamation (acres): 0

Road long term disturbance (acres): 0

Powerline interim reclamation (acres):

0

Powerline long term disturbance

Pipeline interim reclamation (acres): 0

Pipeline long term disturbance

Other interim reclamation (acres): 0 (acres): 0

Other long term disturbance (acres): 0

Total interim reclamation: 0

Operator Name: BTA OIL PRODUCERS LLC

Well Name: ROJO 7811 22 FEDERAL COM Well Number: 47H

Total proposed disturbance: 2.1 Total long term disturbance: 0

Disturbance Comments: This pad will be on the same, previously constructed pad, as the MESA 8105 JV P #31H.

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

Topsoil redistribution: Topsoil will be evenly respread and aggressively revegetated over the entire disturbed area not needed for all-weather operations.

Soil treatment: To seed the area, the proper BLM seed mixture, free of noxious weeds, will be used. Final seedbed preparation will consist of contour cultivating to a depth of 4 to 6 inches within 24 hours prior to seeding, dozer tracking, or other imprinting in order to break the soil crust and create seed germination micro-sites.

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

Existing Vegetation at the well pad attachment:

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

Existing Vegetation Community at the road attachment:

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

Existing Vegetation Community at the pipeline attachment:

Existing Vegetation Community at other disturbances: Refer to "Existing Vegetation at the well pad"

Existing Vegetation Community at other disturbances attachment:

Non native seed used? N

Non native seed description:

Seedling transplant description:

Will seedlings be transplanted for this project? N

Seedling transplant description attachment:

Will seed be harvested for use in site reclamation?

Seed harvest description:

Seed harvest description attachment:

Well Name: ROJO 7811 22 FEDERAL COM Well Number: 47H

Seed Management

Seed Table

Seed Summary

Total pounds/Acre:

Seed Type

Pounds/Acre

Seed reclamation attachment:

Operator Contact/Responsible Official Contact Info

First Name: Chad Last Name: Smith

Phone: (432)682-3753 Email: csmith@btaoil.com

Seedbed prep:

Seed BMP:

Seed method:

Existing invasive species? N

Existing invasive species treatment description:

Existing invasive species treatment attachment:

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

Weed treatment plan attachment:

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

Monitoring plan attachment:

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

Pit closure description: N/A

Pit closure attachment:

Section 11 - Surface Ownership

Well Name: ROJO 7811 22 FEDERAL COM Well Number: 47H

Disturbance type: WELL PAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Section 12 - Other Information

Right of Way needed? N

Use APD as ROW?

ROW Type(s):

ROW Applications

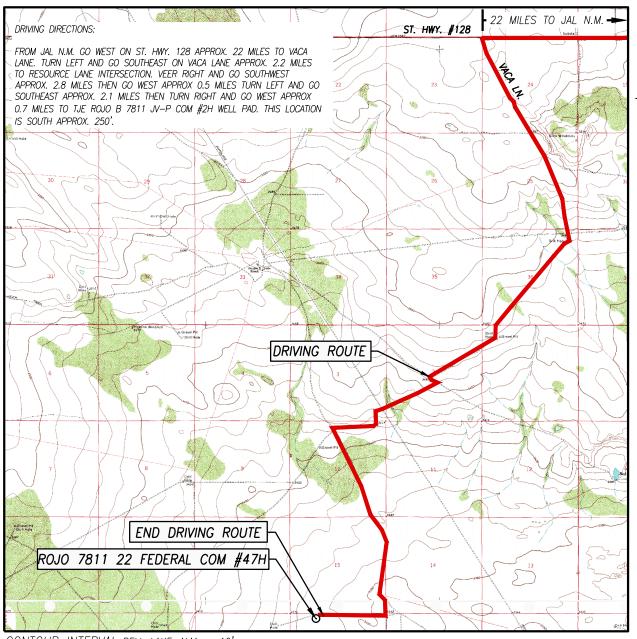
SUPO Additional Information:

Use a previously conducted onsite? Y

Previous Onsite information: Onsite conducted on 1/29/2020 by McKenna Ryder BLM

Other SUPO Attachment

VICINITY, TOPOGRAPHIC AND ACCESS ROAD MAP



CONTOUR INTERVAL: BELL LAKE, N.M. - 10' SCALE: 1" = 5280'

SEC. <u>22</u> TWP. <u>25-S</u> RGE. <u>33-E</u>

SURVEY____N.M.P.M.

COUNTY LEA STATE NEW MEXICO

DESCRIPTION 295' FNL & 1424' FWL

ELEVATION 3367'

OPERATOR BTA OIL PRODUCERS, LLC

LEASE ROJO 7811 22 FEDERAL COM

U.S.G.S. TOPOGRAPHIC MAP Released to Imagins 3/24/2022 2:17:49 PM

I, GARY G. EIDSON, NEW MEXICO PROFESSIONALI, SURVEYOR No. 12641, DO HEREBY CERTIFY THAT THIS SORVEY PLAT AND, THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT SHEET WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERIOR; THAT VAM 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

GARY G. EIDSON LOVING POFFSSION

DATE: <u>01/13/2020</u>

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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

1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

DISTRICT IV

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

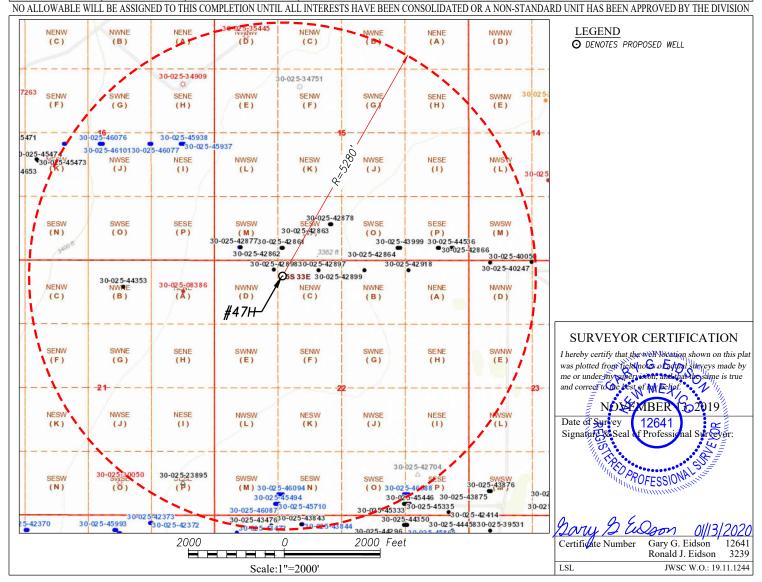
API Number	Pool Code	Pool Name		
RED HILLS ; BONE S		RPING		
Property Code	Propo	Well Number		
	ROJO 7811 22	47H		
OGRID No.	Operator Name		Elevation	
260297	BTA OIL PRO	BTA OIL PRODUCERS, LLC		

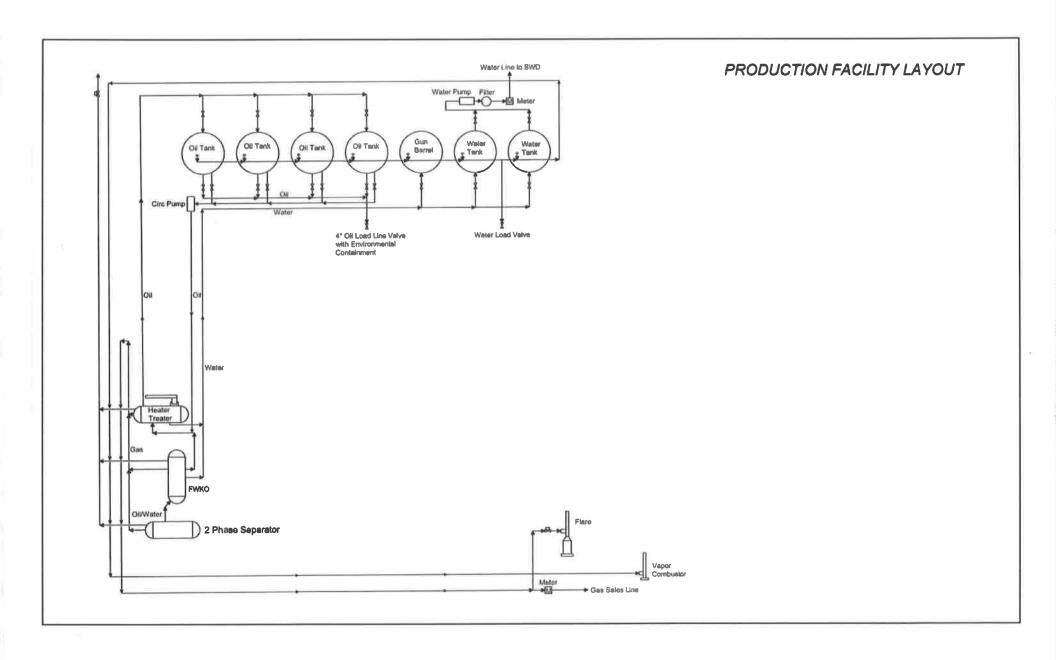
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	22	25-S	33-Е		295	NORTH	1424	WEST	LEA

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Townshi	ip Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	22	25-S	33-E		50	SOUTH	660	WEST	LEA
Dedicated Acres	Joint or	Infill	Consolidation C	ode Ord	er No.				
160									

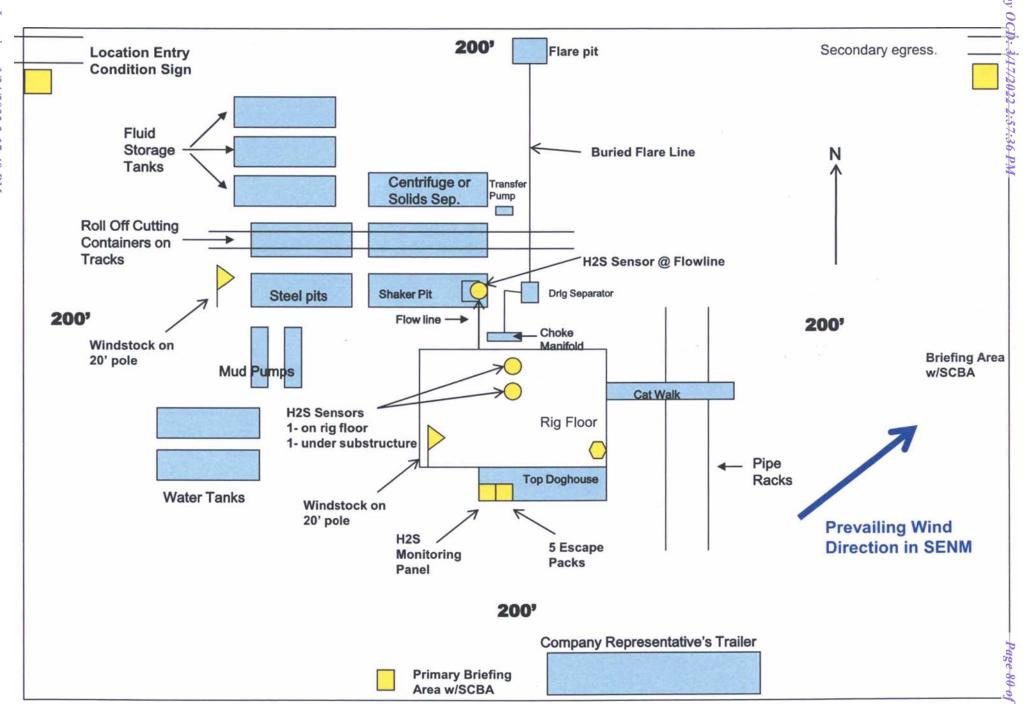


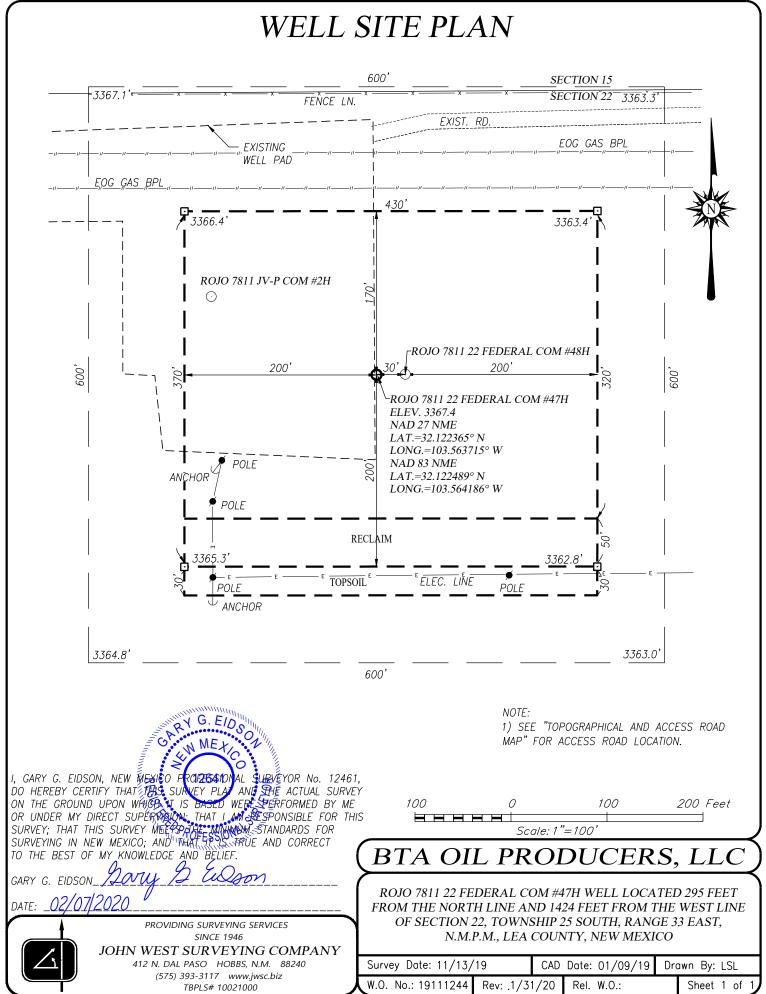




BTA OIL PRODUCERS, LLC
WATER TRANSPORTATION MAP
ROJO 7811 22 FED COM 47H and 48H WELL PAD TO WATER PIT
SEC 22; T25S; R33E (Water Pit is in SESE QUARTER QUARTER)
LEA COUNTY, NM









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

PWD Data Report

PWD disturbance (acres):

APD ID: 10400055318 **Submission Date:** 03/19/2020

Operator Name: BTA OIL PRODUCERS LLC

Well Name: ROJO 7811 22 FEDERAL COM Well Number: 47H

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:

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:

Well Name: ROJO 7811 22 FEDERAL COM Well Number: 47H

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?

Well Name: ROJO 7811 22 FEDERAL COM Well Number: 47H

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):

Well Name: ROJO 7811 22 FEDERAL COM Well Number: 47H

Other PWD type description:

Other PWD type attachment:

Have other regulatory requirements been met?

Other regulatory requirements attachment:



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

Bond Info Data Report

03/14/2022

APD ID: 10400055318

Operator Name: BTA OIL PRODUCERS LLC

Well Name: ROJO 7811 22 FEDERAL COM

Well Type: OIL WELL

Submission Date: 03/19/2020

Highlighted data reflects the most recent changes

Show Final Text

Well Number: 47H
Well Work Type: Drill

Bond Information

Federal/Indian APD: FED

BLM Bond number: NMB001711

BIA Bond number:

Do you have a reclamation bond? NO

Is the reclamation bond a rider under the BLM bond?

Is the reclamation bond BLM or Forest Service?

BLM reclamation bond number:

Forest Service reclamation bond number:

Forest Service reclamation bond attachment:

Reclamation bond number:

Reclamation bond amount:

Reclamation bond rider amount:

Additional reclamation bond information attachment:

State of New Mexico Energy, Minerals and Natural Resources Department

Submit Electronically Via E-permitting

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

Section 1 – Plan Description Effective May 25, 2021

I. Operator: _	ВТА (Dil Producer	s, LLC	OGRID: _	260297	Date:	3_/_	15/2022
II. Type: ☒ Oi	riginal [☐ Amendment	due to □ 19.15.27.	9.D(6)(a) NMA	AC □ 19.15.27.9.D((6)(b) NMAC □	Other.	
If Other, please	describe	e:						
			formation for each i or connected to a c		leted well or set of v point.	wells proposed to	be dril	lled or proposed to
Well Nan	ne	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D		Anticipated roduced Water BBL/D
ROJO 7811 22		025-49912	C-22-25S-33E	295 FNL, 1424 FV	wl +/- 800	+/- 2000	+/-	1200
FEDERAL COM 4	17H							
	Schedu	le: Provide the	Rojo CTB following informatigle well pad or con		ew or recompleted w tral delivery point.	-		7.9(D)(1) NMAC] sed to be drilled or
Well Nan	ne	API	Spud Date	TD Reached Date	Completion Commencement			First Production Date
ROJO 7811 22	30	025-49912	8/15/2022	9/4/2022	9/18/2022	10/9/202	2	11/8/2022
FEDERAL COM	47H							
VII. Operation Subsection A th	nal Prac rough F	tices: Attaction of 19.15.27.8	h a complete descr NMAC. ☑ Attach a comple	ription of the a	perator will size sep ctions Operator wil of Operator's best n	l take to comply	with th	ne requirements of

Section 2 Enhanced Plan

			E APRIL 1, 2022	
Beginning April 1, 2 reporting area must of			with its statewide natural ga	as capture requirement for the applicable
☐ Operator certifies capture requirement	-	-	tion because Operator is in o	compliance with its statewide natural gas
IX. Anticipated Nat	tural Gas Producti	on:		
We	ell	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF
X. Natural Gas Gat	hering System (NC	GGS):		
Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in
production operation the segment or portion the segment or portion in the segment or portion in the segment or portion in the segment or segment in the segment of the segment in the segm	s to the existing or pon of the natural gas gas. The natural gas gas rom the well prior to the compact of the c	planned interconnect of to gathering system(s) to we thering system will to the date of first product does not anticipate that above will continue to eduction in response to the terts confidentiality purs	he natural gas gathering systewhich the well(s) will be considered will not have capacity to go tion. at its existing well(s) connect meet anticipated increases in the increased line pressure. uant to Section 71-2-8 NMS 27.9 NMAC, and attaches a fixewhich which is the increased of the increased line pressure.	atticipated pipeline route(s) connecting the em(s), and the maximum daily capacity of nected. ather 100% of the anticipated natural gas red to the same segment, or portion, of the a line pressure caused by the new well(s). SA 1978 for the information provided in full description of the specific information

Section 3 - Certifications Effective May 25, 2021

	Effective May 25, 2021
Operator certifies that, af	ter reasonable inquiry and based on the available information at the time of submittal:
one hundred percent of t	to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport he anticipated volume of natural gas produced from the well(s) commencing on the date of first production, urrent and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering
hundred percent of the arinto account the current a	able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one nticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system. Fox, Operator will select one of the following:
Well Shut-In. ☐ Operate D of 19.15.27.9 NMAC;	or will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection or
	an. Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential s for the natural gas until a natural gas gathering system is available, including: power generation on lease; power generation for grid; compression on lease; liquids removal on lease; reinjection for underground storage; reinjection for temporary storage; reinjection for enhanced oil recovery; fuel cell production; and other alternative beneficial uses approved by the division.

Section 4 - Notices

- 1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:
- (a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or
- (b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.
- 2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature Language -
Printed Name: Sammy Hajar
Title: Regulatory Analyst
E-mail Address: SHAJAR@BTAOIL.COM
Date: 3/15/2022
Phone: 432-682-3753
OIL CONSERVATION DIVISION
(Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:

VI. Separation Equipment: Attach a complete description of how Operator will size separation equipment to optimize gas capture.

- Separation equipment will be sized to provide adequate separation for anticipated rates.
- Separation equipment will allow for adequate retention time to allow gas and liquids to separate.
- Separation equipment will separate all three phases (Oil, Water, and Gas).
- Collection systems are appropriately sized to handle facility production rates on all (3) phases.
- Ancillary equipment and metering is selected to be serviced without flow interruptions or the need to release gas from the well.

VII. Operational Practices: Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F 19.15.27.8 NMAC.

Drilling Operations

- All flare stacks will be properly sized. The flare stacks will be located at a minimum 100' from the nearest surface hole location on the pad.
- All natural gas produced during drilling operations will be flared, unless there is an equipment
 malfunction and/or to avoid risk of an immediate and substantial adverse impact on safety and
 the environment, at which point the gas will be vented.

Completions/Recompletions Operations

- New wells will not be flowed back until they are connected to a properly sized gathering system.
- The facility will be built/sized for maximum anticipated flowrates and pressures to minimize waste.
- For flowback operations, multiple stages of separation will be used as well as VRU and blowers to make sure waste is minimized off the storage tanks and facility.
- During initial flowback, the well stream will be routed to separation equipment.
- At an existing facility, when necessary, post separation natural gas will be flared until it meets pipeline specifications, at which point it will be turned into a collection system.
- At a new facility, post separation natural gas will be vented until storage tanks can safely function, at which point it will be flared until it meets pipeline spec.

Production Operations

- Weekly AVOs will be performed on all facilities that produce more than 60 MCFD.
- Leaking thief hatches and pressure safety valves found during AVOs will be cleaned and properly re-sealed.
- All flares will be equipped with auto-ignition systems and continuous pilot operations.
- After a well is stabilized from liquid unloading, the well will be turned back into the collection system.
- All gas lift systems will be optimized to limit the amount of waste.
- All tanks will have automatic gauging equipment installed.

Performance Standards

- Production equipment will be designed to handle maximum anticipated rates and pressure.
- All flared gas will be combusted in a flare stack that is properly sized and designed to ensure proper combustion.
- All gas will have multiple points of separation to ensure no liquids enter flares, combustors, or gas sales line.
- Weekly AVOs will be performed on all wells and facilities that produce more than 60 MCFD.
- All OOOOa facilities will be filmed with an Optical Gas Imaging Thermographer camera once per month to check for fugitive emissions.

Measurement & Estimation

- All volume that is flared and vented that is not measured will be estimated.
- All measurement equipment for flared volumes will conform to API 14.10.
- All meters will be calibrated at regular intervals according to meter manufacturer recommendations.
- When metering is not practical due to low pressure/low rate, the vented or flared volume will be estimated.

VIII. Best Management Practices: Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

- During downhole well maintenance, BTA will use best management practices to vent as minimally as possible.
- Prior to the commencement of any maintenance, the tank or vessel will be isolated from the rest of the facilities.
- All valves upstream of the equipment will be closed and isolated.
- After equipment has been isolated, the equipment will be blown down to as low a pressure as possible into the collection system.
- If the equipment being maintained cannot be relieved into the collection system, it shall be released to a tank where the vapor can either be captured or combusted if possible.
- After downhole well maintenance, natural gas will be flared until it reaches pipeline specification.

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

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 91144

CONDITIONS

Operator:	OGRID:
BTA OIL PRODUCERS, LLC	260297
104 S Pecos	Action Number:
Midland, TX 79701	91144
	Action Type:
	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
pkautz	Will require a File As Drilled C-102 and a Directional Survey with the C-104	3/24/2022
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	3/24/2022
pkautz	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system	3/24/2022
pkautz	Cement is required to circulate on both surface and intermediate1 strings of casing	3/24/2022