

HOBBS OCD
DEC 28 2017
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UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED
OMB No. 1004-0137
Expires October 31, 2014

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. NMNM15091
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name
2. Name of Operator BTA OIL PRODUCERS LLC (260297)		7. If Unit or CA Agreement, Name and No.
3a. Address 104 S. Pecos Midland TX 79701	3b. Phone No. (include area code) (432)682-3753	8. Lease Name and Well No. (320523) ROJO 7811 27 FEDERAL COM 13H
4. Location of Well (Report location clearly and in accordance with any State requirements.) At surface NWNE / 220 FNL / 1340 FEL / LAT 32.108176 / LONG -103.555985 At proposed prod. zone SWSE / 50 FSL / 2310 FEL / LAT 32.094402 / LONG -103.559116		9. API Well No. 32025-44296
14. Distance in miles and direction from nearest town or post office* 21 miles		10. Field and Pool, or Exploratory (98094) WC 025 G 09 S253336D / UPPER WOLI
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 50 feet	16. No. of acres in lease 840	11. Sec., T. R. M. or Blk. and Survey or Area SEC 27 / T25S / R33E / NMP
18. Distance from proposed location* to nearest well, drilling, completed, 944 feet applied for, on this lease, ft.	19. Proposed Depth 12553 feet / 17617 feet	12. County or Parish LEA
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3344 feet	22. Approximate date work will start* 09/20/2017	13. State NM
23. Estimated duration 45 days		
24. Attachments		

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, must be attached to this form:

- Well plat certified by a registered surveyor.
- A Drilling Plan.
- A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).
- Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- Operator certification
- Such other site specific information and/or plans as may be required by the BLM.

25. Signature (Electronic Submission)	Name (Printed/Typed) Kayla McConnell / Ph: (432)682-3753	Date 03/28/2017
Title Regulatory Analyst		
Approved by (Signature) (Electronic Submission)	Name (Printed/Typed) Bobby Ballard / Ph: (575)234-2235	Date 12/20/2017
Title Natural Resource Specialist		

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.

(Continued on page 2)

*(Instructions on page 2)

APPROVED WITH CONDITIONS
Approval Date: 12/20/2017

KZ
12/27/17

Double
sided
X

**OCD Hobbs**U.S. Department of the Interior
Bureau of Land Management**Application for Permit to Drill****APD Package Report**

Date Printed: 12/21/2017 07:19 AM

APD ID: 10400012744

Well Status: AAPD

APD Received Date: 03/28/2017 08:59 AM (260297)

Well Name: ROJO 7811 27 FEDERAL COM (320523)

Operator: BTA OIL PRODUCERS LLC

Well Number: 13H

APD Package Report Contents

- Form 3160-3
- Operator Certification Report
- Application Report
- Application Attachments
 - Well Plat: 1 file(s)
- Drilling Plan Report
- Drilling Plan Attachments
 - Blowout Prevention Choke Diagram Attachment: 2 file(s)
 - Blowout Prevention BOP Diagram Attachment: 1 file(s)
 - Casing Design Assumptions and Worksheet(s): 4 file(s)
 - Proposed horizontal/directional/multi-lateral plan submission: 1 file(s)
 - Other Facets: 3 file(s)
 - Other Variances: 3 file(s)
- SUPO Report
- SUPO Attachments
 - Existing Road Map: 1 file(s)
 - New Road Map: 1 file(s)
 - Attach Well map: 1 file(s)
 - Production Facilities map: 1 file(s)
 - Water source and transportation map: 1 file(s)
 - Well Site Layout Diagram: 1 file(s)
- PWD Report
- PWD Attachments
 - None
- Bond Report
- Bond Attachments
 - None

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Review and Appeal Rights

A person contesting a decision shall request a State Director review. This request must be filed within 20 working days of receipt of the Notice with the appropriate State Director (see 43 CFR 3165.3). The State Director review decision may be appealed to the Interior Board of Land Appeals, 801 North Quincy Street, Suite 300, Arlington, VA 22203 (see 43 CFR 3165.4). Contact the above listed Bureau of Land Management office for further information.

CONFIDENTIAL

INSTRUCTIONS

GENERAL: This form is designed for submitting proposals to perform certain well operations, as indicated on Federal and Indian lands and leases for action by appropriate Federal agencies, pursuant to applicable Federal laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from local Federal offices.

ITEM 1: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable Federal regulations concerning subsequent work proposals or reports on the well.

ITEM 4: Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local Federal offices for specific instructions.

ITEM 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on the reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal agency offices.

ITEMS 15 AND 18: If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective productive zone.

ITEM 22: Consult applicable Federal regulations, or appropriate officials, concerning approval of the proposal before operations are started.

NOTICES

The Privacy Act of 1974 and regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 25 U.S.C. 396; 43 CFR 3160

PRINCIPAL PURPOSES: The information will be used to: (1) process and evaluate your application for a permit to drill a new oil, gas, or service well or to reenter a plugged and abandoned well; and (2) document, for administrative use, information for the management, disposal and use of National Resource Lands and resources including (a) analyzing your proposal to discover and extract the Federal or Indian resources encountered; (b) reviewing procedures and equipment and the projected impact on the land involved; and (c) evaluating the effects of the proposed operation on the surface and subsurface water and other environmental impacts.

ROUTINE USE: Information from the record and/or the record will be transferred to appropriate Federal, State, and local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecution, in connection with congressional inquiries and for regulatory responsibilities.

EFFECT OF NOT PROVIDING INFORMATION: Filing of this application and disclosure of the information is mandatory only if you elect to initiate a drilling or reentry operation on an oil and gas lease.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to allow evaluation of the technical, safety, and environmental factors involved with drilling for oil and/or gas on Federal and Indian oil and gas leases. This information will be used to analyze and approve applications. Response to this request is mandatory only if the operator elects to initiate drilling or reentry operations on an oil and gas lease. The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 LS, Washington, D.C. 20240.

Additional Operator Remarks

Location of Well

1. SHL: NWNE / 220 FNL / 1340 FEL / TWSP: 25S / RANGE: 33E / SECTION: 27 / LAT: 32.108176 / LONG: -103.555985 (TVD: 0 feet, MD: 0 feet)
PPP: NWNE / 220 FNL / 1340 FEL / TWSP: 25S / RANGE: 33E / SECTION: 27 / LAT: 32.107876 / LONG: -103.559117 (TVD: 12553 feet, MD: 12876 feet)
BHL: SWSE / 50 FSL / 2310 FEL / TWSP: 25S / RANGE: 33E / SECTION: 27 / LAT: 32.094402 / LONG: -103.559116 (TVD: 12553 feet, MD: 17617 feet)

BLM Point of Contact

Name: Priscilla Perez
Title: Legal Instruments Examiner
Phone: 5752345934
Email: pperez@blm.gov

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BTA Oil Producers, LLC

WELL: Rojo 7811 27 Fed Com #13

Casing Assumption

Hole Size	Csg.Size	From (MD)	To (MD)	From (TVD)	To (TVD)	Tapered String	Weight (lbs)	Grade	Conn.	Collapse	Burst	Body Tension	Joint Tension	Dry/Buoyant	Mud Weight (ppg)
17.500	13.375	0	1050	0	1050	No	54.5	J-55	STC	2.40	5.90	14.90	9.50	Dry	8.4
12.250	9.625	0	4973	0	4960	No	40.0	J-55	LTC	1.70	2.60	3.10	2.60	Dry	10.0
8.750	7.000	0	12100	0	12048	No	27.0	P-110	LTC	2.70	2.50	2.60	2.30	Dry	9.2
6.125	4.500	11600	17618	11583	12553	No	13.5	P-110	LTC	2.20	2.60	31.00	25.00	Dry	11.50



BTA Oil Producers, LLC

WELL: Rojo 7811 27 Fed Com #13

Casing Assumption

Hole Size	Csg.Size	From (MD)	To (MD)	From (TVD)	To (TVD)	Tapered String	Weight (lbs)	Grade	Conn.	Collapse	Burst	Body Tension	Joint Tension	Dry/Buoyant	Mud Weight (ppg)
17.500	13.375	0	1050	0	1050	No	54.5	J-55	STC	2.40	5.90	14.90	9.50	Dry	8.4
12.250	9.625	0	4973	0	4960	No	40.0	J-55	LTC	1.70	2.60	3.10	2.60	Dry	10.0
8.750	7.000	0	12100	0	12048	No	27.0	P-110	LTC	2.70	2.50	2.60	2.30	Dry	9.2
6.125	4.500	11600	17618	11583	12553	No	13.5	P-110	LTC	2.20	2.60	31.00	25.00	Dry	11.50

ATTACHMENT OF QUALITY CONTROL INSPECTION AND TEST CERTIFICATE

No: 1588, 1590, 1592

Page: 1 / 1

1.000 sec
2014/02/04 01:53:54.000
2014/09/04 04:39:39.000

Sampling Int.
Start Time
Stop Time

000220_88543_68545-547 GEV 000236_04543_68545-547 GEV

88543_68545_58547

CX10

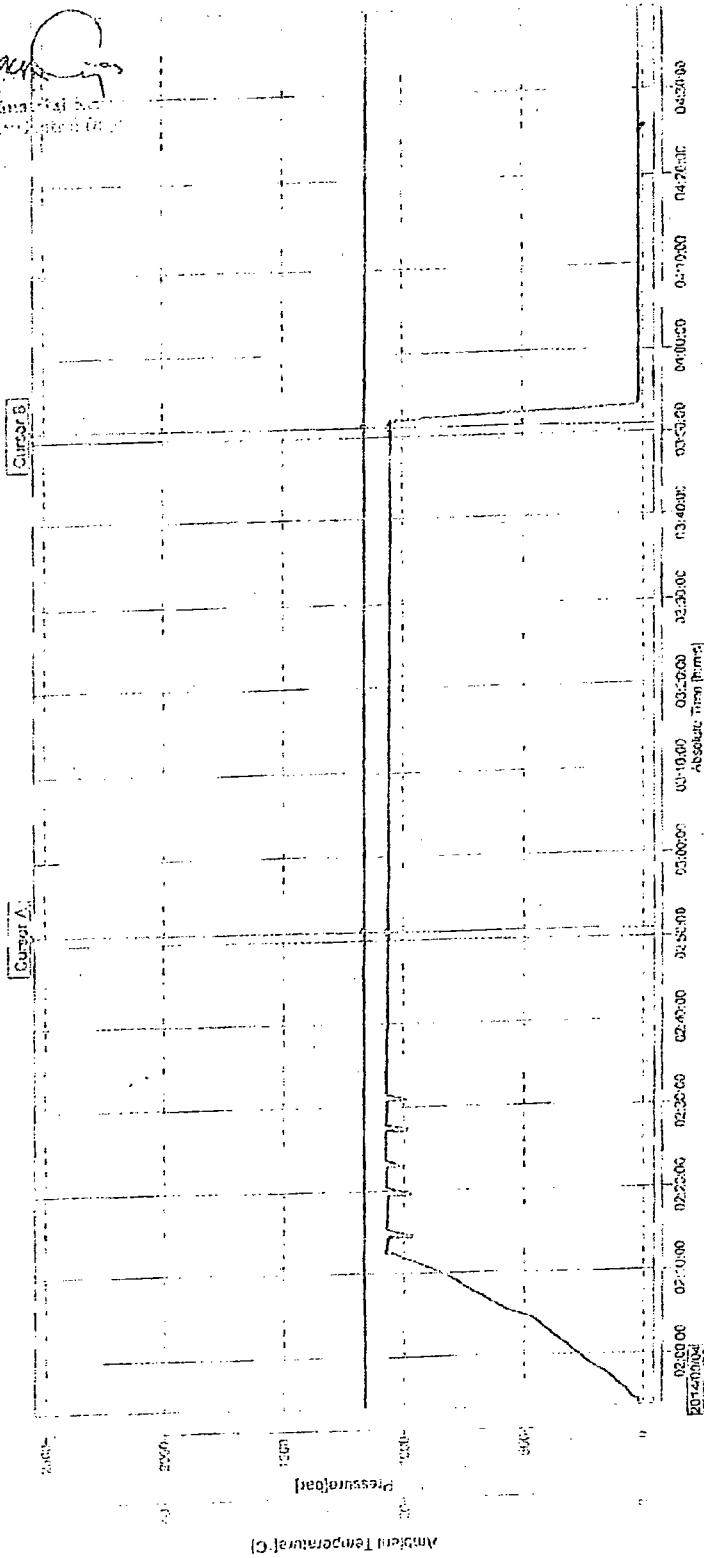
SPP005399

0046

Press-Temp
2014/09/04 01:53:54.000 - 2014/09/04 04:39:39.000

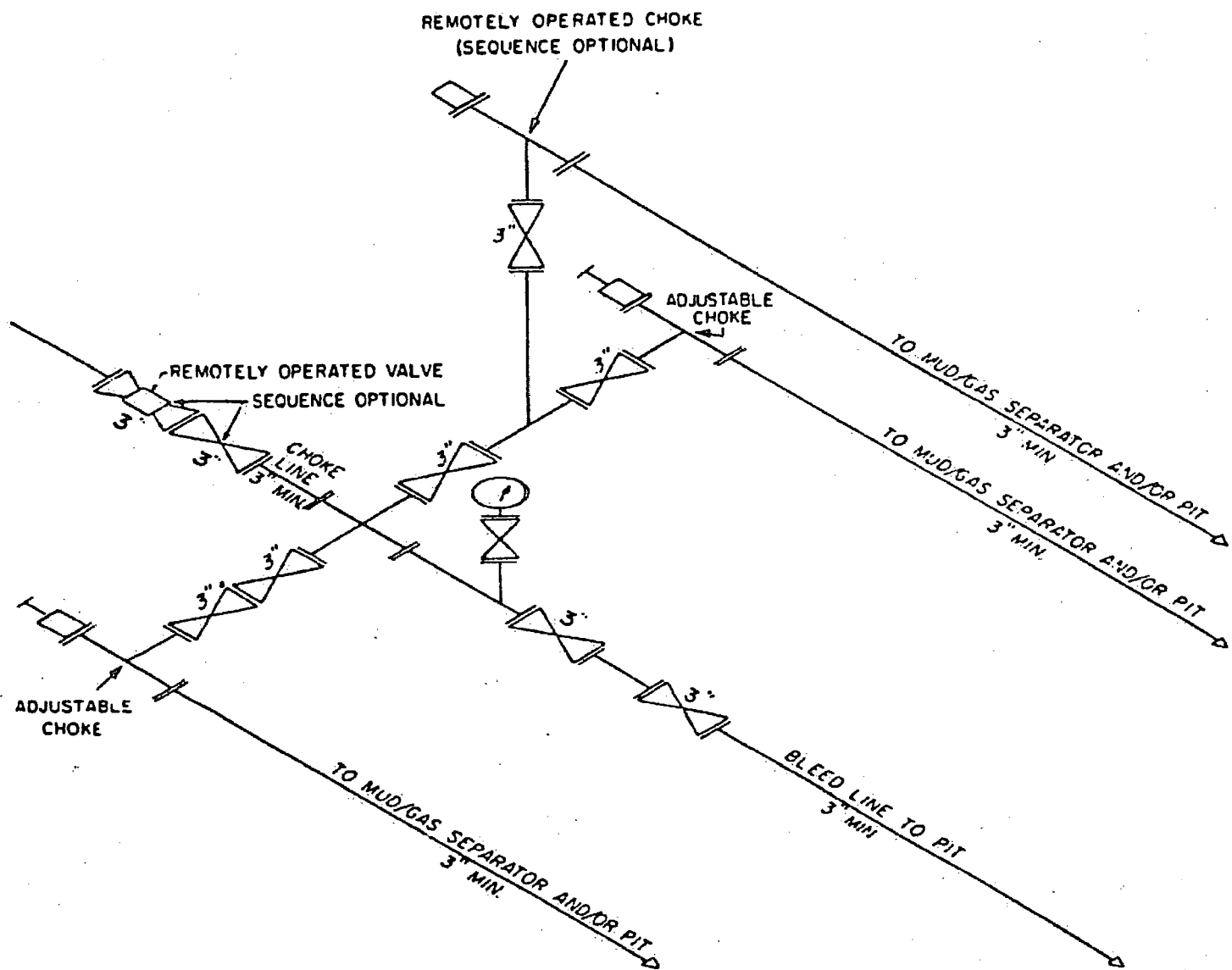
Print Group
Print Range
Comment

Date No	Cursor A	Cursor B	Difference
2014/09/04 01:53:54.000	2014/09/04 04:39:39.000	2014/09/04 04:39:39.000	38.00
Absolute Time	2014/09/04 01:53:54.000	2014/09/04 04:39:39.000	31.00:00.000
Run Count	Value A	Value B	Value B-A
Pressure (kPa)	1092.95	1048.57	-44.38
Ambient Temperature (°C)	23.24	23.14	-0.10

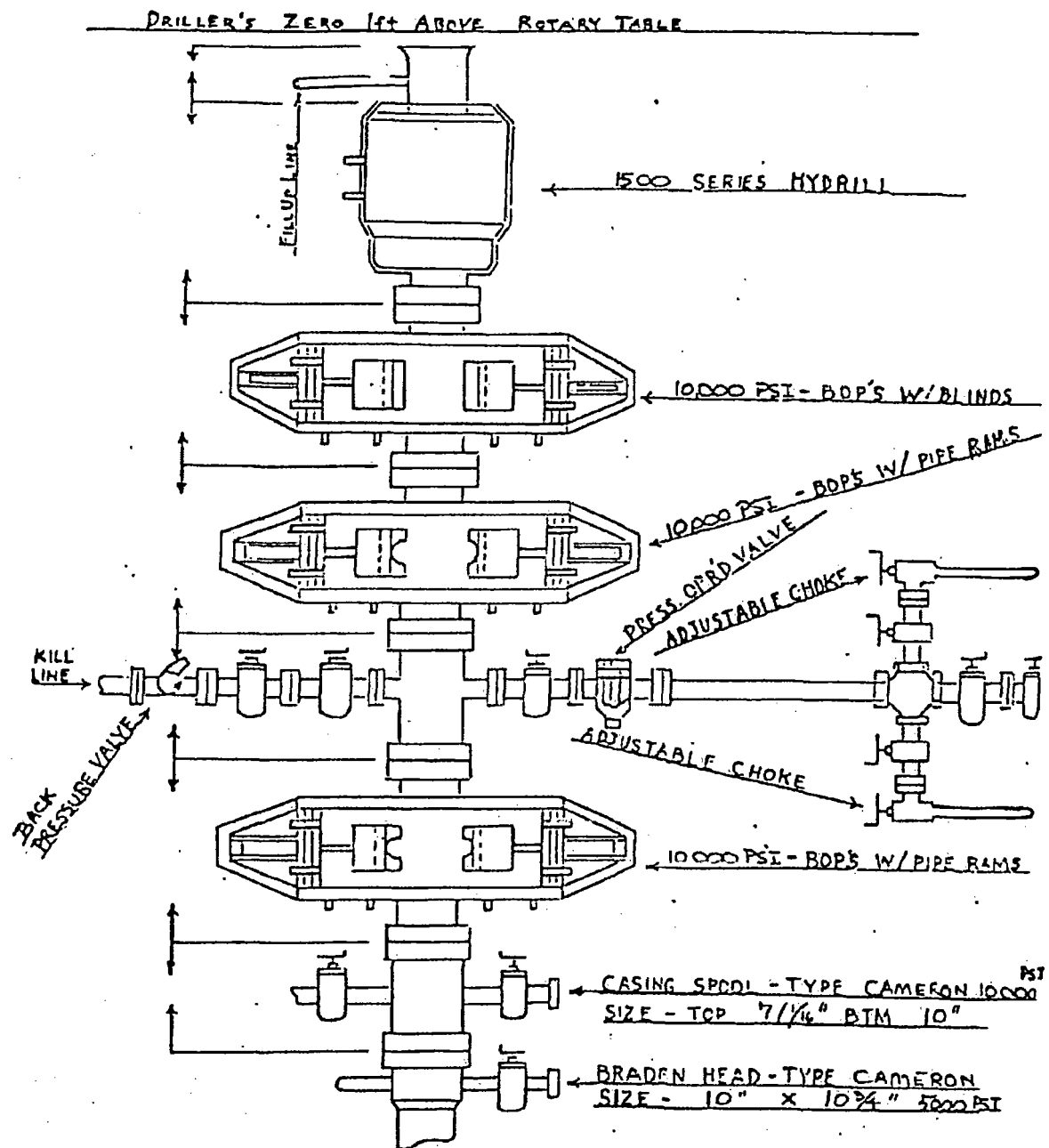


Temperature

Pressure



10M CHOKE MANIFOLD EQUIPMENT — CONFIGURATION MAY VARY





BTA Oil Producers, LLC

WELL: Rojo 7811 27 Fed Com #13

Casing Assumption

Hole Size	Csg.Size	From (MD)	To (MD)	From (TVD)	To (TVD)	Tapered String	Weight (lbs)	Grade	Conn.	Collapse	Burst	Body Tension	Joint Tension	Dry/Buoyant	Mud Weight (ppg)
17.500	13.375	0	1050	0	1050	No	54.5	J-55	STC	2.40	5.90	14.90	9.50	Dry	8.4
12.250	9.625	0	4973	0	4960	No	40.0	J-55	LTC	1.70	2.60	3.10	2.60	Dry	10.0
8.750	7.000	0	12100	0	12048	No	27.0	P-110	LTC	2.70	2.50	2.60	2.30	Dry	9.2
6.125	4.500	11600	17618	11583	12553	No	13.5	P-110	LTC	2.20	2.60	31.00	25.00	Dry	11.50



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

PWD Data Report

12/21/2017

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? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Lined pit PWD on or off channel:

Lined pit PWD discharge volume (bbl/day):

Lined pit specifications:

Pit liner description:

Pit liner manufacturers information:

Precipitated solids disposal:

Describe precipitated solids disposal:

Precipitated solids disposal permit:

Lined pit precipitated solids disposal schedule:

Lined pit precipitated solids disposal schedule attachment:

Lined pit reclamation description:

Lined pit reclamation attachment:

Leak detection system description:

Leak detection system attachment:

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? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Unlined pit PWD on or off channel:

Unlined pit PWD discharge volume (bbl/day):

Unlined pit specifications:

Precipitated solids disposal:

Describe precipitated solids disposal:

Precipitated solids disposal permit:

Unlined pit precipitated solids disposal schedule:

Unlined pit precipitated solids disposal schedule attachment:

Unlined pit reclamation description:

Unlined pit reclamation attachment:

Unlined pit Monitor description:

Unlined pit Monitor attachment:

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

Beneficial use user confirmation:

Estimated depth of the shallowest aquifer (feet):

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

TDS lab results:

Geologic and hydrologic evidence:

State authorization:

Unlined Produced Water Pit Estimated percolation:

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

Is the reclamation bond a rider under the BLM bond?

Unlined pit bond number:

Unlined pit bond amount:

Additional bond information attachment:

Section 4 - Injection

Would you like to utilize Injection PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Injection PWD discharge volume (bbl/day):

Injection well mineral owner:

Injection well type:

Injection well number:

Assigned injection well API number?

Injection well new surface disturbance (acres):

Minerals protection information:

Mineral protection attachment:

Underground Injection Control (UIC) Permit?

UIC Permit attachment:

Injection well name:

Injection well API number:

Section 5 - Surface Discharge

Would you like to utilize Surface Discharge PWD options? NO

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? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Other PWD discharge volume (bbl/day):

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

12/21/2017

Bond Information

Federal/Indian APD: FED

BLM Bond number: NMB000849

BIA Bond number:

Do you have a reclamation bond? NO

Is the reclamation bond a rider under the BLM bond?

Is the reclamation bond BLM or Forest Service?

BLM reclamation bond number:

Forest Service reclamation bond number:

Forest Service reclamation bond attachment:

Reclamation bond number:

Reclamation bond amount:

Reclamation bond rider amount:

Additional reclamation bond information attachment:



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

Operator Certification Data Report

12/21/2017

Operator Certification

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

NAME: Kayla McConnell

Signed on: 03/28/2017

Title: Regulatory Analyst

Street Address: 104 S. Pecos

City: Midland

State: TX

Zip: 79701

Phone: (432)682-3753

Email address: kmcconnell@btaoil.com

Field Representative

Representative Name: Nick Eaton

Street Address: 104 South Pecos

City: Midland

State: TX

Zip: 79701

Phone: (432)682-3753

Email address: neaton@btaoil.com



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

Application Data Report

12/21/2017

APD ID: 10400012744

Submission Date: 03/28/2017

Highlighted data
reflects the most
recent changes

Operator Name: BTA OIL PRODUCERS LLC

Well Name: ROJO 7811 27 FEDERAL COM

Well Number: 13H

[Show Final Text](#)

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - General

APD ID: 10400012744

Tie to previous NOS?

Submission Date: 03/28/2017

BLM Office: CARLSBAD

User: Kayla McConnell

Title: Regulatory Analyst

Federal/Indian APD: FED

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

Lease number: NMNM15091

Lease Acres: 840

Surface access agreement in place?

Allotted?

Reservation:

Agreement in place? NO

Federal or Indian agreement:

Agreement number:

Agreement name:

Keep application confidential? YES

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: pinskeep@btaoil.com

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 27 FEDERAL COM

Well Number: 13H

Well API Number:

Field/Pool or Exploratory? Field and Pool

Field Name: WC 025 G 09
S253336D

Pool Name: UPPER
WOLFCAMP

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

Operator Name: BTA OIL PRODUCERS LLC

Well Name: ROJO 7811 27 FEDERAL COM

Well Number: 13H

Describe other minerals:

Is the proposed well in a Helium production area? N Use Existing Well Pad? NO New surface disturbance?

Type of Well Pad: MULTIPLE WELL

Multiple Well Pad Name: ROJO Number: WC 1

7811 27 FEDERAL COM

Well Class: HORIZONTAL

Number of Legs:

Well Work Type: Drill

Well Type: OIL WELL

Describe Well Type:

Well sub-Type: EXPLORATORY (WILDCAT)

Describe sub-type:

Distance to town: 21 Miles

Distance to nearest well: 944 FT

Distance to lease line: 50 FT

Reservoir well spacing assigned acres Measurement: 320 Acres

Well plat: Rojo_7811_27_Fed_Com_13H__C102_03-28-2017.pdf

Well work start Date: 09/20/2017

Duration: 45 DAYS

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83

Vertical Datum: NGVD29

Survey number:

	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
SHL Leg #1	220	FNL	134 0	FEL	25S	33E	27	Aliquot NWNE	32.10817 6	- 103.5559 85	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 15091	334 4	0	0
KOP Leg #1	220	FNL	134 0	FEL	25S	33E	27	Aliquot NWNE	32.10817 6	- 103.5559 85	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 15091	106 8	227 6	227 6
PPP Leg #1	220	FNL	134 0	FEL	25S	33E	27	Aliquot NWNE	32.10787 6	- 103.5591 17	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 15091	- 920 9	128 76	125 53

Operator Name: BTA OIL PRODUCERS LLC

Well Name: ROJO 7811 27 FEDERAL COM

Well Number: 13H

	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
EXIT Leg #1	330	FSL	231 0	FEL	25S	33E	27	Aliquot SWSE	32.09517 2	- 103.5591 16	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 26080	- 920 9	173 37	125 53
BHL Leg #1	50	FSL	231 0	FEL	25S	33E	27	Aliquot SWSE	32.09440 2	- 103.5591 16	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 26080	- 920 9	176 17	125 53

Operator Name: BTA OIL PRODUCERS LLC

Well Name: ROJO 7811 27 FEDERAL COM

Well Number: 13H

Rojo_7811_27_Fed_Com___Choke_Hose___Test_Chart_and_Specs_03-24-2017.pdf

10M_Choke_20171005093829.pdf

10K_BOP_schematic_20171005093837.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	1050	0	1050	-9209	-10259	1050	J-55	54.5	STC	2.4	5.9	DRY	9.5	DRY	14.9
2	INTERMEDIATE	12.25	9.625	NEW	API	N	0	4973	0	4960	-9209	-14169	4973	J-55	40	LTC	1.7	2.6	DRY	2.6	DRY	3.1
3	PRODUCTION	8.75	7.0	NEW	API	N	0	12100	0	12048	-9209	-21257	12100	P-110	27	LTC	2.7	2.5	DRY	2.3	DRY	2.6
4	LINER	6.125	4.5	NEW	API	N	11600	17618	11583	12553	-20792	-21762	6018	P-110	13.5	LTC	2.2	2.6	DRY	25	DRY	31

Casing Attachments

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

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Rojo_7811_27_Fed_Com_13H___Casing_Assumption_03-28-2017.pdf

Operator Name: BTA OIL PRODUCERS LLC

Well Name: ROJO 7811 27 FEDERAL COM

Well Number: 13H

Casing Attachments

Casing ID: 2 **String Type:** INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Rojo_7811_27_Fed_Com_13H___Casing_Assumption_03-28-2017.pdf

Casing ID: 3 **String Type:** PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Rojo_7811_27_Fed_Com_13H___Casing_Assumption_03-28-2017.pdf

Casing ID: 4 **String Type:** LINER

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Rojo_7811_27_Fed_Com_13H___Casing_Assumption_03-28-2017.pdf

Section 4 - Cement

Operator Name: BTA OIL PRODUCERS LLC

Well Name: ROJO 7811 27 FEDERAL COM

Well Number: 13H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	841	605	1.75	13.5	1058	81	Class C	4% Gel
SURFACE	Tail		841	1050	200	1.34	14.8	268	81	Class C	2% CaCl2
INTERMEDIATE	Lead		0	4314	1000	2.18	12.7	2180	61	Class C	6% Gel
INTERMEDIATE	Tail		4314	4973	250	1.33	14.8	332	25	Class C	0.004 GPS cf-41L
PRODUCTION	Lead		4000	1077 4	265	4.43	10.5	1173	15	50:50H	0.004 GPS cf-41L
PRODUCTION	Tail		1077 4	1210 0	200	1.18	15.6	236	15	Class H	Class H
LINER	Lead		1160 0	1761 8	720	1.22	14.4	652	10	50:50H	50% Class H POZ. 2% Gel 1 Gal/1000 sx CF-41L

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

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

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

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

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

Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
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Operator Name: BTA OIL PRODUCERS LLC

Well Name: ROJO 7811 27 FEDERAL COM

Well Number: 13H

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	1050	SPUD MUD	8.3	8.4							
1050	4960	SALT SATURATED	10	10.2							
4960	1204 8	WATER-BASED MUD	8.6	9.2							
1204 8	1255 3	OIL-BASED MUD	11	11.5							

Section 6 - Test, Logging, Coring

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

Drill Stem Tests will be based on geological sample shows.

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

CBL,GR,MUDLOG

Coring operation description for the well:

None planned

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 7525

Anticipated Surface Pressure: 4763.34

Anticipated Bottom Hole Temperature(F): 185

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

Describe:

Contingency Plans geohazards description:

Contingency Plans geohazards attachment:

Hydrogen Sulfide drilling operations plan required? NO

Hydrogen sulfide drilling operations plan:

Operator Name: BTA OIL PRODUCERS LLC

Well Name: ROJO 7811 27 FEDERAL COM

Well Number: 13H

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Rojo_7811_27_Fed_Com__13H__Directional_Plan_03-28-2017.pdf

Other proposed operations facets description:

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

Other proposed operations facets attachment:

Rojo_7811_27_Fed_Com__H2S_Plan_03-24-2017.pdf

Rojo_7811_27_Fed_Com__H2S_Equipment_Schematic_03-24-2017.pdf

BTA_Oil_Producers_LLC__EMERGENCY_CALL_LIST_9_11_17_20171005093924.pdf

Other Variance attachment:

Rojo_7811_27_Fed_Com__Multi_Bowl_Wellhead_Schematic_03-24-2017.pdf

Rojo_7811_27_Fed_Com__Casing_Head_Running_Procedure_03-24-2017.pdf

Rojo_7811_27_Fed_Com_13H_GasCapturePlan_20171005142615.pdf

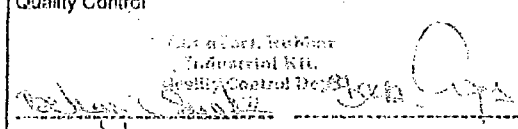
Continental

ContiTech

CONTITECH RUBBER Industrial Kft.	No:QC-DB- 590/ 2014 Page: 16 / 176
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Rig 94

Asset 24455

QUALITY CONTROL INSPECTION AND TEST CERTIFICATE				CERT. N°: 1592	
PURCHASER: ContiTech Oil & Marine Corp.				P.O. N°: 4500461753	
CONTITECH ORDER N°: 539225		HOSE TYPE: 3" ID Choke & Kill Hose			
HOSE SERIAL N°:		NOMINAL / ACTUAL LENGTH: 7,62 m / 7,66 m			
W.P. 68,9 MPa 10000 psi		T.P. 103,4 MPa 15000 psi		Duration: 60 min.	
Pressure test with water at ambient temperature					
See attachment. (1 page)					
<div style="display: flex; justify-content: space-between;"> → 10 Min. ↑ 50 MPa </div>					
COUPLINGS Type		Serial N°		Quality	
3" coupling with 4 1/16" 10K API Swivel Flange end Hub		2574 5533		AISI 4130 AISI 4130 AISI 4130	
				Heat N° A1582N H8672 58855 A1199N A1423N	
Not Designed For Well Testing				API Spec 16 C	
Fire Rated				Temperature rate: "B"	
All metal parts are flawless					
WE CERTIFY THAT THE ABOVE HOSE HAS BEEN MANUFACTURED IN ACCORDANCE WITH THE TERMS OF THE ORDER INSPECTED AND PRESSURE TESTED AS ABOVE WITH SATISFACTORY RESULT.					
STATEMENT OF CONFORMITY: We hereby certify that the above items/equipment supplied by us are in conformity with the terms, conditions and specifications of the above Purchaser Order and that these items/equipment were fabricated inspected and tested in accordance with the referenced standards, codes and specifications and meet the relevant acceptance criteria and design requirements.					
Date: 04. September 2014.		Inspector		Quality Control	
				Contitech Rubber Industrial Kft. Quality Control Dept. 	

Operator Name: BTA OIL PRODUCERS LLC

Well Name: ROJO 7811 27 FEDERAL COM

Well Number: 13H

Access surfacing type: OTHER

Access topsoil source: BOTH

Access surfacing type description: Native Caliche

Access onsite topsoil source depth: 6

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

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

Access other construction information:

Access miscellaneous information:

Number of access turnouts:

Access turnout map:

Drainage Control

New road drainage crossing: OTHER

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

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

Road Drainage Control Structures (DCS) attachment:

Access Additional Attachments

Additional Attachment(s):

Section 3 - Location of Existing Wells

Existing Wells Map? YES

Attach Well map:

Rojo_7811_27_Fed_Com__13H__1_Mile_Radius_Map_03-28-2017.pdf

Existing Wells description:

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

Submit or defer a Proposed Production Facilities plan? SUBMIT

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

Production Facilities map:

Rojo_7811_27_Federal_Com_10H_13H__Proposed_Tank_Battery_03-24-2017.pdf

Operator Name: BTA OIL PRODUCERS LLC

Well Name: ROJO 7811 27 FEDERAL COM

Well Number: 13H

Section 5 - Location and Types of Water Supply

Water Source Table

Water source use type: DUST CONTROL,
INTERMEDIATE/PRODUCTION CASING, STIMULATION, SURFACE
CASING

Water source type: OTHER

Describe type:

Source longitude: -103.71602

Source latitude: 31.999126

Source datum: NAD83

Water source permit type: PRIVATE CONTRACT

Source land ownership: PRIVATE

Water source transport method: TRUCKING

Source transportation land ownership: PRIVATE

Water source volume (barrels): 100000

Source volume (acre-feet): 12.88931

Source volume (gal): 4200000

Water source and transportation map:

Rojo_7811_27_Fed_Com___Water_Source_Transportation_Map_03-24-2017.pdf

Water source comments:

New water well? NO

New Water Well Info

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:

Operator Name: BTA OIL PRODUCERS LLC

Well Name: ROJO 7811 27 FEDERAL COM

Well Number: 13H

Additional information attachment:

Section 6 - Construction Materials

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

Construction Materials source location attachment:

Section 7 - Methods for Handling Waste

Waste type: GARBAGE

Waste content description: Trash

Amount of waste: 500 pounds

Waste disposal frequency : One Time Only

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

Safe containmant attachment:

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

Disposal type description:

Disposal location description: Trucked to an approved disposal facility.

Waste type: DRILLING

Waste content description: Drilling fluids and cuttings.

Amount of waste: 4164 barrels

Waste disposal frequency : One Time Only

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

Safe containmant attachment:

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

Disposal type description:

Disposal location description: Trucked to an approved disposal facility.

Waste type: SEWAGE

Waste content description: Human waste and grey water.

Amount of waste: 1000 gallons

Waste disposal frequency : One Time Only

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

Safe containmant attachment:

Operator Name: BTA OIL PRODUCERS LLC

Well Name: ROJO 7811 27 FEDERAL COM

Well Number: 13H

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

Disposal type description:

Disposal location description: Trucked to an approved disposal facility.

Reserve Pit

Reserve Pit being used? NO

Temporary disposal of produced water into reserve pit?

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? NO

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?: NO

Ancillary Facilities attachment:

Comments: It is possible that a mobile home will be used at the well site during drilling operations.

Operator Name: BTA OIL PRODUCERS LLC

Well Name: ROJO 7811 27 FEDERAL COM

Well Number: 13H

Section 9 - Well Site Layout

Well Site Layout Diagram:

Rojo_7811_27_Fed_Com_13H__Well_Site_Plan_03-28-2017.pdf

Comments:

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance

Multiple Well Pad Name: ROJO 7811 27 FEDERAL COM

Multiple Well Pad Number: WC 1

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.

Wellpad long term disturbance (acres): 4.49

Wellpad short term disturbance (acres): 4.49

Access road long term disturbance (acres): 0.16

Access road short term disturbance (acres): 0.26

Pipeline long term disturbance (acres): 0

Pipeline short term disturbance (acres): 0

Other long term disturbance (acres): 0

Other short term disturbance (acres): 0

Total long term disturbance: 4.65

Total short term disturbance: 4.75

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"

Operator Name: BTA OIL PRODUCERS LLC

Well Name: ROJO 7811 27 FEDERAL COM

Well Number: 13H

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? NO

Non native seed description:

Seedling transplant description:

Will seedlings be transplanted for this project? NO

Seedling transplant description attachment:

Will seed be harvested for use in site reclamation? NO

Seed harvest description:

Seed harvest description attachment:

Seed Management

Seed Table

Seed type:

Seed source:

Seed name:

Source name:

Source address:

Source phone:

Seed cultivar:

Seed use location:

PLS pounds per acre:

Proposed seeding season:

Seed Summary

Total pounds/Acre:

Seed Type	Pounds/Acre
-----------	-------------

Seed reclamation attachment:

Operator Contact/Responsible Official Contact Info

First Name:

Last Name:

Phone:

Email:

Operator Name: BTA OIL PRODUCERS LLC

Well Name: ROJO 7811 27 FEDERAL COM

Well Number: 13H

Seedbed prep:

Seed BMP:

Seed method:

Existing invasive species? NO

Existing invasive species treatment description:

Existing invasive species treatment attachment:

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

Weed treatment plan attachment:

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

Monitoring plan attachment:

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

Pit closure description: N/A

Pit closure attachment:

Section 11 - Surface Ownership

Disturbance type: WELL PAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT, PRIVATE OWNERSHIP

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Operator Name: BTA OIL PRODUCERS LLC

Well Name: ROJO 7811 27 FEDERAL COM

Well Number: 13H

Fee Owner: Harvey Williams

Fee Owner Address: PO Box 3157 San Angelo, TX 76902

Phone: (325)653-8211

Email:

Surface use plan certification: NO

Surface use plan certification document:

Surface access agreement or bond: Agreement

Surface Access Agreement Need description: BTA will have a surface use agreement in place, before operations begin.

Surface Access Bond BLM or Forest Service:

BLM Surface Access Bond number:

USFS Surface access bond number:

Disturbance type: NEW ACCESS ROAD

Describe:

Surface Owner: PRIVATE OWNERSHIP

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Operator Name: BTA OIL PRODUCERS LLC

Well Name: ROJO 7811 27 FEDERAL COM

Well Number: 13H

Section 12 - Other Information

Right of Way needed? NO

Use APD as ROW?

ROW Type(s):

ROW Applications

SUPO Additional Information:

Use a previously conducted onsite? YES

Previous Onsite information: Onsite was conducted Wednesday, March 8, 2017 by Fernando Banos.

Other SUPO Attachment



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

Drilling Plan Data Report

12/21/2017

APD ID: 10400012744

Submission Date: 03/28/2017

Highlighted data
reflects the most
recent changes

Operator Name: BTA OIL PRODUCERS LLC

Well Name: ROJO 7811 27 FEDERAL COM

Well Number: 13H

[Show Final Text](#)

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical Depth	Measured Depth	Lithologies	Mineral Resources	Producing Formation
1	UNKNOWN	3344	0	0	ALLUVIUM	NONE	No
2	RUSTLER	2341	1003	1003		NONE	No
3	TOP OF SALT	2005	1339	1339		NONE	No
4	BASE OF SALT	-1335	4679	4679		NONE	No
5	DELAWARE	-1571	4915	4915		NATURAL GAS,OIL	No
6	BONE SPRING LIME	-5736	9080	9080		NATURAL GAS,OIL	No
7	WOLFCAMP	-8833	12177	12177		NATURAL GAS,OIL	No

Section 2 - Blowout Prevention

Pressure Rating (PSI): 10M

Rating Depth: 14000

Equipment: The blowout preventer equipment (BOP) shown in Exhibit A will consist of a (10M system) double ram type (10000 psi WP) preventer and a bag-type (Hydril) preventer (10000 psi WP). Both units will be hydraulically operated and the ram type preventer will be equipped with blind rams on top and 4-1/2" drill pipe rams on bottom. The BOP's will be installed on the 13-3/8" surface casing and utilized continuously until total depth is reached. All BOP's and associated equipment will be tested as per BLM drilling Operations Order No. 2. A 2" kill line and 3" choke line will be incorporated in the drilling spool below the ram-type BOP. Other accessory BOP equipment will include a Kelly cock, floor safety valve, choke lines, and choke manifold having a 10000 psi WP rating.

Requesting Variance? YES

Variance request: A Choke Hose Variance is requested. See attached test chart and spec.

Testing Procedure: Pipe rams will be operated and checked each 24-hour period and each time the drill pipe is out of the hole. These functional tests will be documented on the daily driller's log.

Choke Diagram Attachment:

Rojo_7811_27_Fed_Com___Choke_Hose___Test_Chart_and_Specs_03-24-2017.pdf

10M_Choke_20171005093829.pdf

BOP Diagram Attachment:



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

SUPO Data Report

12/21/2017

APD ID: 10400012744

Submission Date: 03/28/2017

Operator Name: BTA OIL PRODUCERS LLC

Well Name: ROJO 7811 27 FEDERAL COM

Well Number: 13H

Well Type: OIL WELL

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:

Rojo_7811_27_Fed_Com_13H_Vicinity_Map_03-28-2017.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? YES

New Road Map:

Rojo_7811_27_Fed_Com_13H_Topographical_and_Access_Rd_03-28-2017.pdf

New road type: RESOURCE

Length: 470

Feet

Width (ft.): 25

Max slope (%): 2

Max grade (%): 2

Army Corp of Engineers (ACOE) permit required? NO

ACOE Permit Number(s):

New road travel width: 15

New road access erosion control: Road construction requirements and regular maintenance would alleviate potential impacts to the access road from water erosion damage.

New road access plan or profile prepared? NO

New road access plan attachment:

Access road engineering design? NO

Access road engineering design attachment:

11/29/2017

DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT - AFMSS II Submitted APD's



Haque, Mustafa <mhaque@blm.gov>

Rojo lease - AFMSS II Submitted APD's

Kayla McConnell <KMConnell@blaoil.com>
 To: "Haque, Mustafa" <mhaque@blm.gov>

Wed, Nov 29, 2017 at 2:39 PM

Haque:

Listed below are the amendments that we would like to make to the 7" lead cementing string. Please let me know if you would like for me to send this information to you differently. Thank you.

Rojo 7811 27 Fed Com #12H

Csg. Size		Stage Tool Depth	Top MD of Segment	Bottom MD of Segment	Cement Type	Quantity (sk)	Yield (cu. Ft./sk)	Density (lbs. gal)	Volume (cu.ft.)	% Excess	Additives
7	Lead		4000	10774	100% TXL	410	2.87	10.5	1173	40%	Plus Additives

Rojo 7811 27 Fed Com #13H

Csg. Size		Stage Tool Depth	Top MD of Segment	Bottom MD of Segment	Cement Type	Quantity (sk)	Yield (cu. Ft./sk)	Density (lbs. gal)	Volume (cu.ft.)	% Excess	Additives
7	Lead		4000	10774	100% TXL	410	2.87	10.5	1173	40%	Plus Additives

Rojo 7811 34-27 Fed Com #18H

Csg. Size		Stage Tool Depth	Top MD of Segment	Bottom MD of Segment	Cement Type	Quantity (sk)	Yield (cu. Ft./sk)	Density (lbs. gal)	Volume (cu.ft.)	% Excess	Additives
7	Lead		4000	11205	100% TXL	410	2.87	10.5	1173	40%	Plus Additives

Rojo 7811 34-27 Fed Com #19H

Csg. Size		Stage Tool Depth	Top MD of Segment	Bottom MD of Segment	Cement Type	Quantity (sk)	Yield (cu. Ft./sk)	Density (lbs. gal)	Volume (cu.ft.)	% Excess	Additives
7	Lead		4000	11205	100% TXL	410	2.87	10.5	1173	40%	Plus Additives

11/29/2017

DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT - AFMSS II Submitted APD's

Rojo 7811 34-27 Fed Com #20H

Csg. Size		Stage Tool Depth	Top MD of Segment	Bottom MD of Segment	Cement Type	Quantity (sk)	Yield (cu. Ft./sk)	Density (lbs. gal)	Volume (cu.ft.)	% Excess	Additives
7	Lead		4000	11170	100% TXL	410	2.87	10.5	1173	40%	Plus Additives

Rojo 7811 34-27 Fed Com #21H

Csg. Size		Stage Tool Depth	Top MD of Segment	Bottom MD of Segment	Cement Type	Quantity (sk)	Yield (cu. Ft./sk)	Density (lbs. gal)	Volume (cu.ft.)	% Excess	Additives
7	Lead		4000	11170	100% TXL	410	2.87	10.5	1173	40%	Plus Additives

Kayla McConnell

RTA Oil Producers, LLC

Office: 432-682-3753

kmccconnell@btaoil.com



From: Haque, Mustafa [mailto:mhaque@blm.gov]

Sent: Wednesday, November 29, 2017 12:55 PM

[Quoted text hidden]

[Quoted text hidden]



BTA Oil Producers, LLC

WELL: Rojo 7811 27 Fed Com #13

Casing Assumption

Hole Size	Csg. Size	From (MD)	To (MD)	From (TVD)	To (TVD)	Tapered String	Weight (lbs)	Grade	Conn.	Collapse	Burst	Body Tension	Joint Tension	Dry/Buoyant	Mud Weight (ppg)
17.500	13.375	0	1050	0	1050	No	54.5	J-55	STC	2.40	5.90	14.90	9.50	Dry	8.4
12.250	9.625	0	4973	0	4960	No	40.0	J-55	LTC	1.70	2.60	3.10	2.60	Dry	10.0
8.750	7.000	0	12100	0	12048	No	27.0	P-110	LTC	2.70	2.50	2.60	2.30	Dry	9.2
6.125	4.500	11600	17618	11583	12553	No	13.5	P-110	LTC	2.20	2.60	31.00	25.00	Dry	11.50