Form 3160-5
(June 2015)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018

SUNDRY NOTICES AND REPORTS ON WELLS

Carlsbad Field Office
Operator Copy
HOBBS OCD

Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on page 2

JAN 09 2020

RECEIVED

1. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other	5. Lease Serial No. NMNM05792
	6. If Indian, Allottee or Tribe Name
	7. If Unit or CA/Agreement, Name and/or No.
	8. Well Name and No. ROJO 7811 34-27 FEDERAL COM 21H
2. Name of Operator BTA OIL PRODUCERS LLC Contact: SAMMY HAJAR E-Mail: shajar@btaoil.com	9. API Well No. 30-025-44300-00-X1
3a. Address 104 S. PECOS MIDLAND, TX 79701 3b. Phone No. (include area code) Ph: 432-682-3753	10. Field and Pool or Exploratory Area WC025G09S253336D-UPPER WC
4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)* Sec 34 T25S R33E NWSW 1540FSL 660FWL 32.084000 N Lat, 103.566597 W Lon	11. County or Parish, State LEA COUNTY, NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other Change to Original APD
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

BTA OIL PRODUCERS, LLC RESPECTFULLY REQUESTS A CHANGE TO THE ORIGINAL APD FOR THE SURFACE HOLE LOCATION.

ORIGINAL SURFACE HOLE LOCATION: 1540 FSL; 660 FWL. LATITUDE 32.084000 ; LONG 103.566599

NEW SURFACE HOLE LOCATION: 2600 FSL; 660 FWL. LATITUDE 32.086913 ; LONG 103.566608

PLEASE SEE ATTACHED FOR NEW SUPPORTING DOCUMENTS, Engineering & geod.

All Previous COA's Still Apply. See attached COA.

BTA OIL PRODUCERS LLC ALSO RESPECTFULLY REQUESTS THE FOLLOWING MUD, CASING, AND CEMENT PROGRAM CHANGES, AS WELL AS BATCH DRILLING TO THE ORIGINAL APD AS APPROVED.

surface geod. MR. 12/12/2019. Same stipulations apply

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #495220 verified by the BLM Well Information System
For BTA OIL PRODUCERS LLC, sent to the Hobbs
Committed to AFMSS for processing by JUANA MEDRANO on 12/11/2019 (20JM0039SE)

Name *(Printed/Typed)* SAMMY HAJAR	Title REGULATORY ANALYST
Signature (Electronic Submission)	Date 12/10/2019

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By [signature]	Title AFM - LPM	Date 12/18/2019
Conditions of approval, if any, are attached. Approval of this notice 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.	Office CFO	

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)

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

Additional data for EC transaction #495220 that would not fit on the form

32. Additional remarks, continued

PLEASE SEE ATTACHED.

Revisions to Operator-Submitted EC Data for Sundry Notice #495220

	Operator Submitted	BLM Revised (AFMSS)
Sundry Type:	OTHER NOI	APDCH NOI
Lease:	NMNM05792	NMNM05792
Agreement:		
Operator:	BTA OIL PRODUCERS, LLC 104 S. PECOS MIDLAND, TX 79701 Ph: 432-682-3753	BTA OIL PRODUCERS LLC 104 S. PECOS MIDLAND, TX 79701 Ph: 4326823753
Admin Contact:	SAMMY HAJAR REGULATORY ANALYST E-Mail: shajar@btaoil.com Ph: 432-682-3753	SAMMY HAJAR REGULATORY ANALYST E-Mail: shajar@btaoil.com Ph: 432-682-3753
Tech Contact:	SAMMY HAJAR REGULATORY ANALYST E-Mail: shajar@btaoil.com Ph: 432-682-3753	SAMMY HAJAR REGULATORY ANALYST E-Mail: shajar@btaoil.com Ph: 432-682-3753
Location: State: County:	 NM LEA	 NM LEA
Field/Pool:	BOBCAT DRAW/UPPER WOLFCAM	WC025G09S253336D-UPPER WC
Well/Facility:	ROJO 7811 34-27 FEDERAL COM 21H Sec 34 T25S R33E NWSW 1540FSL 660FWL 32.084000 N Lat, 103.566599 W Lon	ROJO 7811 34-27 FEDERAL COM 21H Sec 34 T25S R33E NWSW 1540FSL 660FWL 32.084000 N Lat, 103.566597 W Lon

BTA OIL PRODUCERS LLC RESPECTFULLY REQUEST THE FOLLOWING CHANGES TO THE ORIGINAL APD AS APPROVED.

BATCH DRILLING SEQUENCE OF THE 20H and 21H:

-SPUD Rojo #20H – drill 14-3/4" hole and set 10-3/4" csg
-Walk to Rojo #21H, SPUD 14-3/4" hole and set 10-3/4" csg test BOP, drill 9-7/8" hole and set 7-5/8" csg
-Walk to Rojo #20H, test BOP, drill 9-7/8" hole and set 7-5/8" csg, drill 6-3/4" hole and set 5-1/2" x 5" casing.
-Walk to Rojo #21H, test BOP, drill 6-3/4" hole and set 5-1/2" x 5" casing.
-Rig release

Mud Program 21H:

Original Permit

-Surface Section – Fresh water 8.4 ppg
-Intermediate – Brine 10.0 – 10.2 ppg
-2nd Intermediate – Cut brine 8.6 – 9.2 ppg
-Production – OBM 11.5 – 12.0 ppg

Proposed Change

-Surface Section – Fresh water 8.3 - 8.4 ppg
-Intermediate – DBE 9.0 - 9.4 ppg
-Production – OBM 11.5 – 12.0 ppg

Casing Programs

Casing Program **21H**

Original APD

-Surface
13-3/8" 54.5# J-55 STC set at 1000' in a 17-1/2" hole

-Intermediate
9-5/8" 40# J-55 @ 4950' in a 12-1/4" hole

-2nd Intermediate
7" 29# P-110 @ 12528' in a 8-3/4" hole

-Liner
4-1/2" 11.6# P-110 liner from 12028' – 21466' in a 6-1/8" hole

Proposed Change

-Surface
10-3/4" 40.5# J-55 STC set at 1050' in a 14-3/4" hole

-Intermediate
9-7/8" hole from 1060' to 8000' and 8-3/4" hole from 8000' – 11785'. 7-5/8" 29.7# P-110 BTC from 0 - 7700' and 7-5/8" 29.7# P-110 Stinger HC from 7700' – 11785' and DV tool at 4914'

-Production
11585' of 5-1/2" 20# P-110 BTC and 8419' of 5" 18# P-110 BTC set at 20004' (12309' TVD) in a 6-3/4" hole

Cement Programs

Rojo #21H

Original

-Surface Cement
Lead 650 sx; 1.73 cfs; 13.5 ppg; 100% Class C; 100% excess
Tail 200 sx; 1.33 cfs; 14.8 ppg; 100% Class C; 100% excess

-Intermediate Cement

Lead 1200 sx; 2.08 cfs; 12.9 ppg 100% Class C; 100% excess
Tail 250 sx; 1.33 cfs; 14.8 ppg; 100% Class C; 25% excess

-2nd Intermediate Cement
Lead 280 sx; 2.99 cfs; 10.5 ppg 100% TXL; 40% excess
Tail 2425 sx; 1.22 cfs; 14.4 ppg; 100% Class H; 15% excess

-Liner Cement
Lead 800 sx; 1.22 cfs; 14.4 ppg; 50:50 Class H; 10% excess

Proposed Change

-Surface Cement
Lead 485 sx; 1.74 cfs; 13.5 ppg; 100% Class C; 100% excess
Tail 200 sx; 1.34 cfs; 14.8 ppg; 100% Class C; 100% excess ✓

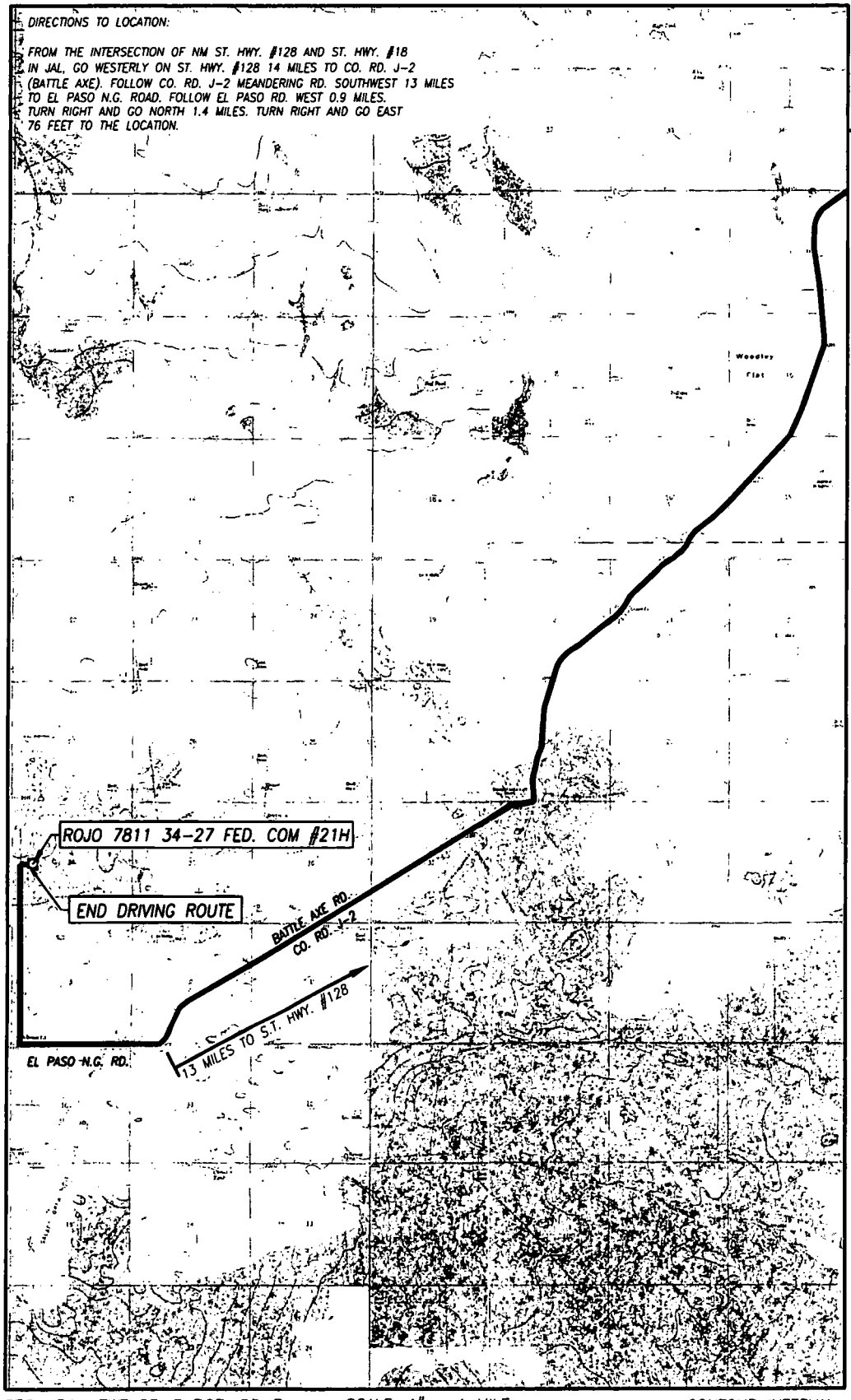
-Intermediate Cement
Stage 1 Lead 470 sx; 2.64 cfs; 10.5 ppg; 50:50 Class H; 15% excess
Stage 1 Tail 400 sx; 1.19 cfs; 15.6 ppg; 100% Class H; 15% excess
Stage 2 Lead 720 sx; 2.68 cfs; 12.7 ppg 100% Class C; 50% excess
Stage 2 Tail 150 sx; 1.33 cfs; 14.8 ppg; 100% Class C; 50% excess ✓

-Production Cement
Tail 915 sx; 1.27 cfs; 14.8 ppg; 50% POZ 50% Class H; 10% excess ✓

Variances:

-5M BOP on 9-7/8" hole
-10M BOP with 5M annular for 6-3/4" hole
-Wave the centralizer requirements for the 5-1/2" and 5" casing in the 6-3/4" hole size. An expansion additive will be utilized in the cement slurry for the entire length of the 6-3/4" hole interval to maximize cement bond and zonal isolation.

VICINITY, TOPOGRAPHIC AND ACCESS ROAD MAP



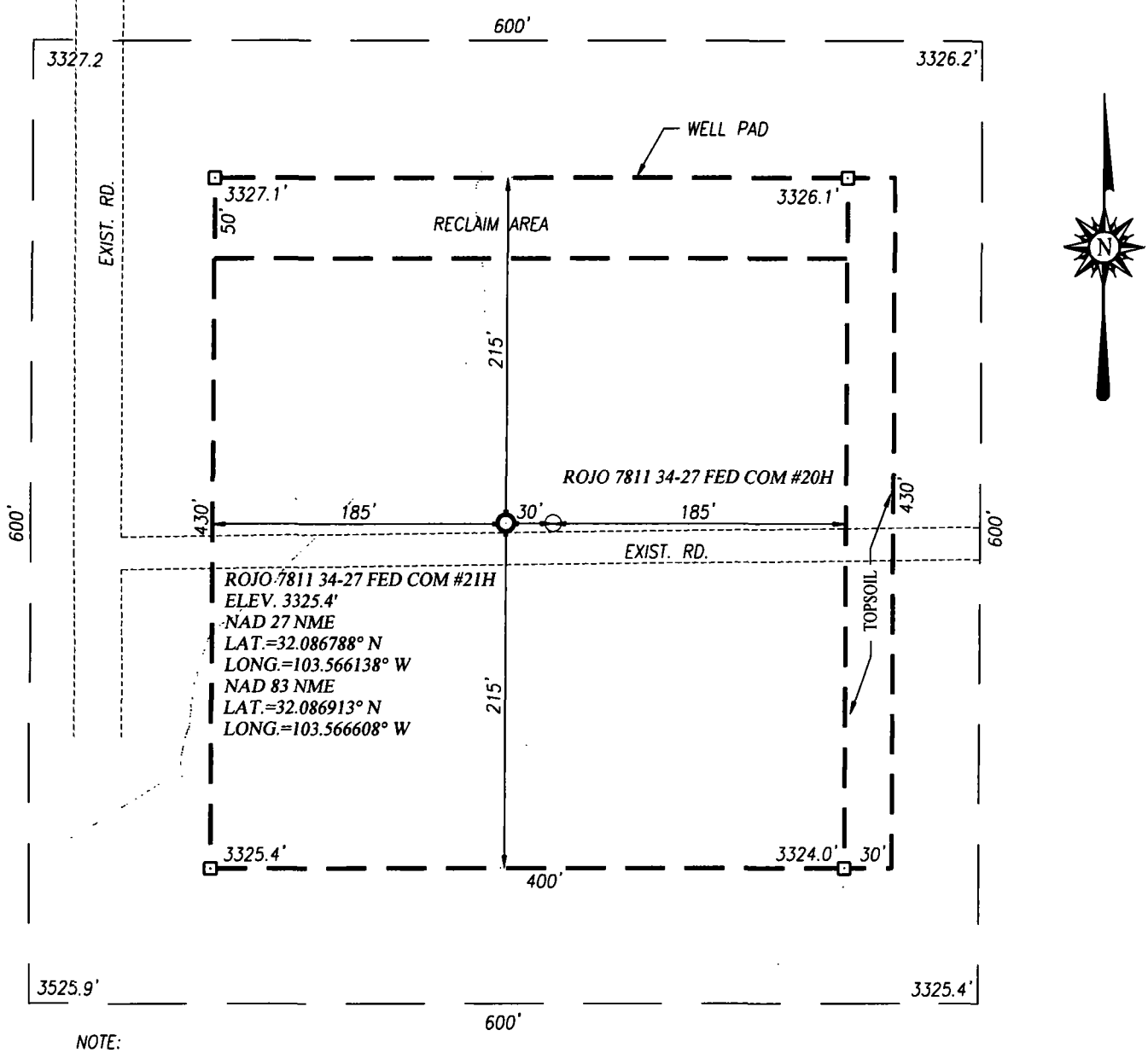
SEC. 34 TWP. 25-S RGE. 33-E
COUNTY LEA STATE NEW MEXICO
DESCRIPTION 2600' FSL & 660' FWL
ELEVATION 3325'
OPERATOR BTA OIL PRODUCERS, LLC
LEASE ROJO 7811 34-27 FEDERAL COM
U.S.G.S. TOPOGRAPHIC MAP
PADUCCA BREAKS EAST, N.M. SURVEY N.M.P.M.

SCALE: 1" = 1 MILE

CONTOUR INTERVAL:
PADUCCA BREAKS EAST, N.M. - 10'

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

WELL SITE PLAN



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

DIRECTIONS TO LOCATION:

FROM THE INTERSECTION OF NM ST. HWY. #128 AND ST. HWY. #18 IN JAL, GO WESTERLY ON ST. HWY. #128 14 MILES TO CO. RD. J-2 (BATTLE AXE). FOLLOW CO. RD. J-2 MEANDERING RD. SOUTHWEST 13 MILES TO EL PASO N.G. ROAD. FOLLOW EL PASO RD. WEST 0.9 MILES. TURN RIGHT AND GO NORTH 1.4 MILES. TURN RIGHT AND GO EAST 76 FEET TO THE LOCATION.

100 0 100 200 Feet

Scale: 1"=100'

BTA OIL PRODUCERS, LLC

ROJO 7811 34-27 FED COM #21H WELL LOCATED 2600 FEET FROM THE SOUTH LINE AND 660 FEET FROM THE WEST LINE OF SECTION 34, TOWNSHIP 25 SOUTH, RANGE 33 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO

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

Survey Date: 07/22/19	CAD Date: 08/29/19	Drawn By: LSL
W.O. No.: 19110842	Rev: .	Rel. W.O.: 19110753	Sheet 1 of 1

DISTRICT I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
DISTRICT II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
DISTRICT III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

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

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

☐AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
30-025-44300		BOBCAT DRAW ; UPPER WOLFCAMP

Property Code	Property Name	Well Number
	ROJO 7811 34-27 FED COM	21H

OGRID No.	Operator Name	Elevation
260297	BTA OIL PRODUCERS, LLC	3325'

Surface Location

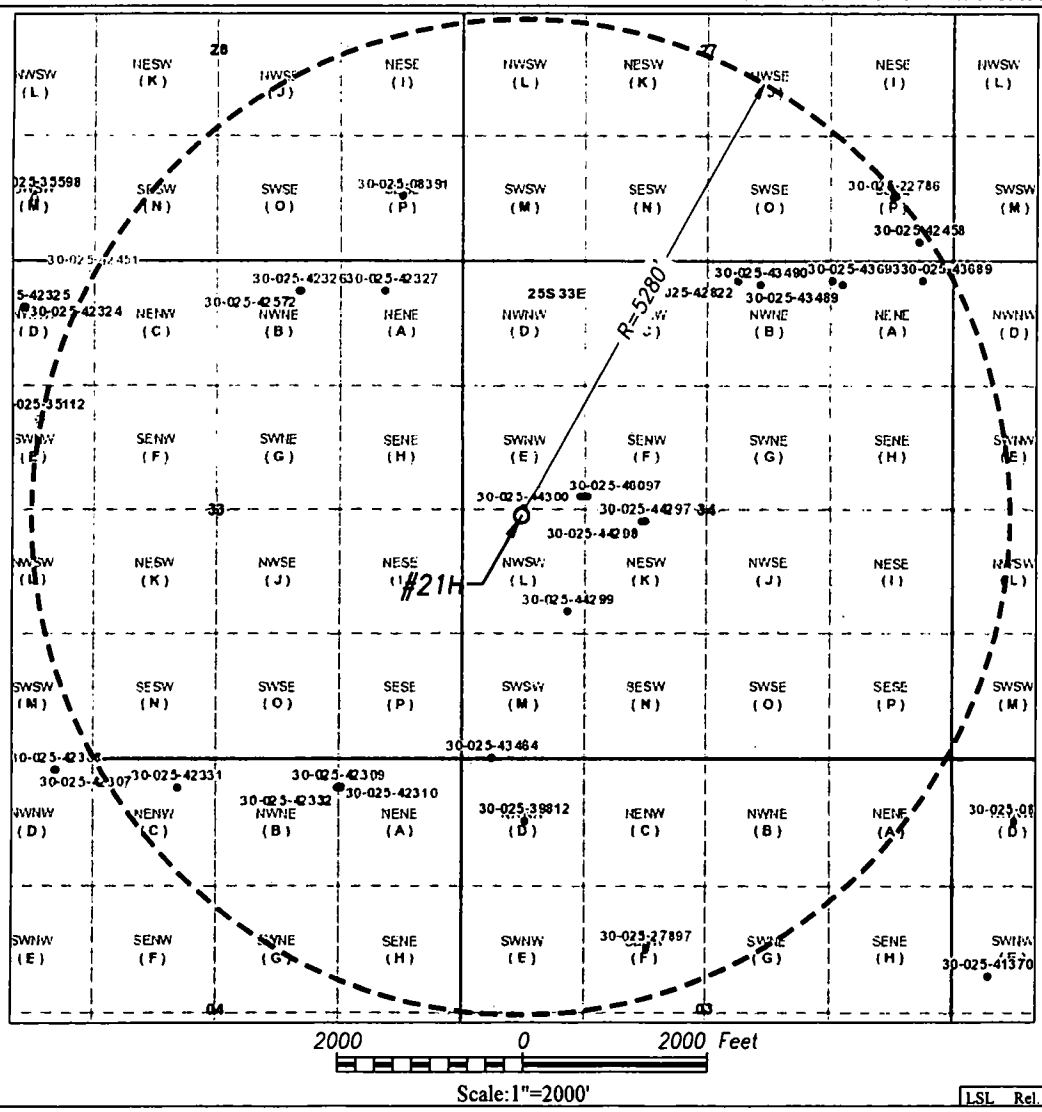
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	34	25-S	33-E		2600	SOUTH	660	WEST	LEA

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	27	25-S	33-E		50	NORTH	330	WEST	LEA

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
240			

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



LSL Rel. w.o., 19.11.0753 JWSC W.O., 19.11.0841

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D	27	25-S	33-E		50	NORTH	330	WEST	LEA

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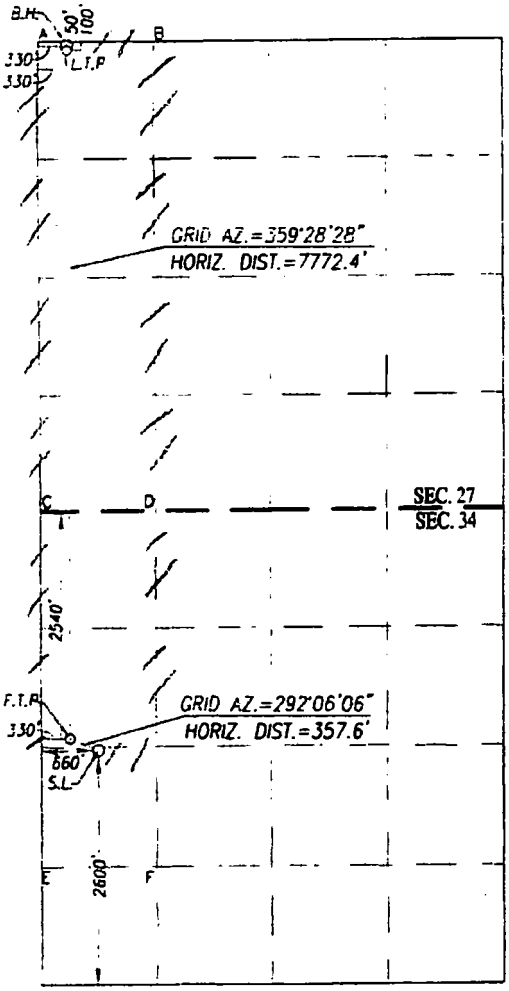

SCALE: 1"=2000'

BOTTOM HOLE LOCATION
NAD 27 NME
Y= 404047.2 N
X= 737203.1 E
LAT.=32.108525° N
LONG.=103.567255° W

BOTTOM HOLE LOCATION
NAD 83 NME
Y= 404104.9 N
X= 778389.4 E
LAT.=32.108649° N
LONG.=103.567726° W

LAST TAKE POINT
NAD 27 NME
Y= 403997.2 N
X= 737203.6 E
LAT.=32.108387° N
LONG.=103.567255° W

LAST TAKE POINT
NAD 83 NME
Y= 404055.0 N
X= 778389.9 E
LAT.=32.108512° N
LONG.=103.567726° W

CORNER COORDINATES TABLE
NAD 27 NME
A - Y= 404095.0 N, X= 736872.7 E
B - Y= 404103.8 N, X= 738199.0 E
C - Y= 398814.0 N, X= 736921.4 E
D - Y= 398822.6 N, X= 738243.9 E
E - Y= 394858.9 N, X= 736957.7 E
F - Y= 394866.1 N, X= 738279.6 E

CORNER COORDINATES TABLE
NAD 83 NME
A - Y= 404152.8 N, X= 778059.0 E
B - Y= 404161.5 N, X= 779385.3 E
C - Y= 398871.6 N, X= 778107.9 E
D - Y= 398880.1 N, X= 779430.4 E
E - Y= 394916.4 N, X= 778144.4 E
F - Y= 394923.6 N, X= 779466.4 E

FIRST TAKE POINT
NAD 27 NME
Y= 396276.8 N
X= 737274.0 E
LAT.=32.087164° N
LONG.=103.567204° W

FIRST TAKE POINT
NAD 83 NME
Y= 396334.3 N
X= 778460.7 E
LAT.=32.087289° N
LONG.=103.567674° W

GEODETIC COORDINATES
NAD 27 NME
SURFACE LOCATION
Y= 396142.3 N
X= 737605.2 E
LAT.=32.086788° N
LONG.=103.566138° W

GEODETIC COORDINATES
NAD 83 NME
SURFACE LOCATION
Y= 396199.8 N
X= 778791.9 E
LAT.=32.086913° N
LONG.=103.566608° W

OPERATOR CERTIFICATION

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

Signature — Date: 12/10/2019

Sammy Hajar
Printed Name

SHAJAR@BTAOIL.COM
E-mail Address

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

JULY 22, 2019
Date of Survey

Signature & Seal of Professional Surveyor

RONALD J. EIDSON
NEW MEXICO
3239
REGISTERED PROFESSIONAL SURVEYOR

12/30/2019

Certificate Number: Gary L. Eidson 12641
Ronald J. Eidson 3239

LSL Rel w o. 19 11 0753 JWSC W O 19 11 0842

corrected acreage

ROJO 7811 34-27 FEDERAL COM 21H

10 3/4 surface csg in a 14 3/4 inch hole.

Segment	#/ft	Grade	Coupling	Joint	Collapse	Burst	Length	B@s	a-B	a-C	Weight
					Design Factors				Surface		
"A"	40.50	J 55	STC	9.88	3.45	0.54	1,050	7	0.99	6.95	42,525
"B"			STC				0				0
w/8.4#/g mud, 30min Sfc Csg Test psig: 1,500			Tail Cmt	does not	circ to sfc.	Totals:	1,050				42,525

Comparison of Proposed to Minimum Required Cement Volumes

Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE	Min Dist Hole-Cplg
14 3/4	0.5563	685	1112	584	90	8.40	3162	5M	1.50

Burst Frac Gradient(s) for Segment(s) A, B = , b All > 0.70, OK.

7 5/8 casing inside the 10 3/4

Segment	#/ft	Grade	Coupling	Body	Collapse	Burst	Length	B@s	a-B	a-C	Weight
					Design Factors				Int 1		
"A"	29.70	P 110	BTC	2.68	1.42	1.23	7,700	2	1.91	2.59	228,690
"B"	29.70	P 110	HC Stinger	4.65	1.06	0.99	4,085	1	1.52	1.94	121,325
w/8.4#/g mud, 30min Sfc Csg Test psig:						Totals:	11,785				350,015

The cement volume(s) are intended to achieve a top of 0 ft from surface or a 1050 overlap.

Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE	Min Dist Hole-Cplg
9 7/8	0.2148	870	1717	2551	-33	9.40	4965	5M	0.69
D V Tool(s):			4914				sum of sx	Σ CuFt	Σ%excess
t by stage % :		16	98				1740	3846	51

MASP is within 10% of 5000psig, need exrta equip?

Burst Frac Gradient(s) for Segment(s): A, B, C, D = a, 0.64, c, d <0.70 a Problem!!

Intermediate casing must be kept fluid filled to meet BLM minimum collapse requirement. Alternate Burst = 1.52 > 1 therefore okay & Alternate Collapse = 1.94 > 1.125 therefore keep 1/3 fluid filled.

Tail cmt

5 1/2 casing inside the 7 5/8

Segment	#/ft	Grade	Coupling	Joint	Collapse	Burst	Length	B@s	a-B	a-C	Weight
					Design Factors				Prod 1		
"A"	23.00	P 110	BTC	2.59	2.01	1.61	11,585	2	2.49	3.11	266,455
"B"	18.00	P 110	BTC	6.60	1.59	1.78	8,419	2	2.74	2.71	151,542
w/8.4#/g mud, 30min Sfc Csg Test psig: 2,549						Totals:	20,004				417,997

The cement volume(s) are intended to achieve a top of 11585 ft from surface or a 200 overlap.

Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE	Min Dist Hole-Cplg
6 3/4	0.0835	915	1162	705	65	12.00			0.35

Class 'C' tail cmt yld > 1.35

#N/A

0 5 1/2

Segment	#/ft	Grade	Coupling	#N/A	Collapse	Burst	Length	B@s	a-B	a-C	Weight
					Design Factors				<Choose Casing>		
"A"			0.00				0				0
"B"			0.00				0				0
w/8.4#/g mud, 30min Sfc Csg Test psig:						Totals:	0				0

Cmt vol calc below includes this csg, TOC intended #N/A ft from surface or a #N/A overlap.

Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE	Min Dist Hole-Cplg
0		#N/A	#N/A	0	#N/A				

#N/A Capitan Reef est top XXXX.

PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	BTA OIL PRODUCERS, LLC
LEASE NO.:	NMNM05792
WELL NAME & NO.:	21H – ROJO 7811 34-27 FEDERAL COM
SURFACE HOLE FOOTAGE:	2600'/S & 660'/W
BOTTOM HOLE FOOTAGE	50'/N & 330'/W
LOCATION:	SECTION 34, T25S, R33E, NMP
COUNTY:	LEA

COA

H2S	○ Yes	◉ No	
Potash	◉ None	○ Secretary	○ R-111-P
Cave/Karst Potential	○ Low	◉ Medium	○ High
Cave/Karst Potential	○ Critical		
Variance	○ None	◉ Flex Hose	○ Other
Wellhead	○ Conventional	○ Multibowl	◉ Both
Other	☐ 4 String Area	☐ Capitan Reef	☐ WIPP
Other	☑ Fluid Filled	☐ Cement Squeeze	☐ Pilot Hole
Special Requirements	☐ Water Disposal	☑ COM	☐ Unit

All previous COAs still apply.

A. CASING

Primary Casing Design:

1. The **10-3/4** inch surface casing shall be set at approximately **1028 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 **7-5/8** inch intermediate casing is:

Option 1 (Single Stage):

- Cement to surface. If cement does not circulate see B.1.a, c-d above. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.**

Option 2:

Operator has proposed a DV tool, the depth may be adjusted as long as the cement is changed proportionally. The DV tool may be cancelled if cement circulates to surface on the first stage.

a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.

b. Second stage above DV tool:

- Cement to surface. If cement does not circulate, contact the appropriate BLM office.
  Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.

❖ In Medium Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.

3. The minimum required fill of cement behind the production casing is:

- Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

B. 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 **5000 (5M)** psi.

b. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the intermediate casing shoe shall be **10,000 (10M)** psi. **Variance is approved to use a 5000 (5M) Annular which shall be tested to 5000 (5M) psi.**

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 **10,000 (10M)** psi. **Variance is approved to use a 5000 (5M) Annular which shall be tested to 5000 (5M) psi.**

    a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
    b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
    c. Manufacturer representative shall install the test plug for the initial BOP test.
    d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
    e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

C. 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.

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