Form 3160-5 (June 2015) DI B	UNITED STATES EPARTMENT OF THE INT UREAU OF LAND MANAGE	ERIOR MENT	HOBBS	0CD	FORM A OMB NC Expires: Jar 5. Lease Serial No.	APPRC). 1004 nuary :	DVED I-0137 31, 2018
SUNDRY Do not use th abandoned we	6. If Indian, Allottee or Tribe Name						
SUBMIT IN TRIPLICATE - Other instructions on page 2 7. If Unit or CA/Agreement, Name and/or No.							Name and/or No.
1. Type of Well 1. Type of Well Gas Well Ot	her				8. Well Name and No. VACA DRAW 9418 10 FED 18H		
2. Name of Operator Contact: SAMMY HAJAR BTA OIL PRODUCERS E-Mail: shajar@btaoil.com				9. API Well No. 30-025-46226-00-X1			
3a. Address 3b. Phone No. (incl 104 SOUTH PECOS STREET MIDLAND. TX 79701 Ph: 432-682-37			o. (include area code) 32-3753		10. Field and Pool or Exploratory Area BOBCAT DRAW-UPR WOLFCAMP		
4. Location of Well (Footage, Sec., 7	., R., M., or Survey Description)				11. County or Parish, State		
Sec 10 T25S R33E SESE 220FSL 1305FEL 32.138412 N Lat, 103.555870 W Lon					LEA COUNTY, NM		
12. CHECK THE A	PPROPRIATE BOX(ES) TO) INDICA	TE NATURE OI	F NOTICE,	REPORT, OR OTH	ER D	DATA
TYPE OF SUBMISSION		<u>.</u>	TYPE OF	ACTION			
R Notice of Intent	Acidize	🗖 Dee	pen	Product	ion (Start/Resume)	۵v	Vater Shut-Off
	Alter Casing	🗖 Hyd	Iraulic Fracturing	🗖 Reclam	ation	٥v	Vell Integrity
Subsequent Report	Casing Repair	🗖 Nev	lew Construction 🔲 Reco		olete		Other
Final Abandonment Notice	 Change Plans Convert to Injection 	C Plug	g and Abandon g Back	and Abandon Demogratily Abandon Back Demogratily Abandon		PD	
If the proposal is to deepen direction: Attach the Bond under which the wo following completion of the involved testing has been completed. Final Al determined that the site is ready for f BTA OIL PRODUCERS LLC I	ally or recomplete horizontally, given rk will be performed or provide the loperations. If the operation results pandonment Notices must be filed or inal inspection.	Bond No. or s in a multip only after all	In gestmace starting locations and measur n file with BLM/BIA le completion or recor requirements, includi	ed and true ve Required sul mpletion in a r ng reclamation	AND CEMENT PRO	nt mar filed wi -4 mus nd the o	Arrandon difference ithin 30 days st be filed once operator has
AS WELL AS BATCH DRILLI PLEASE SEE ATTACHED.	NG TO THE ORIGINAL APD	AS APPI	ROVED.				
CD Hobbs							
14. I hereby certify that the foregoing is	true and correct.						
, , , , ,	Electronic Submission #493 For BTA OIL	327 verifie PRODUCE	d by the BLM Well RS. sent to the H	Information obbs	System		
Con	mitted to AFMSS for process	ing by PRI	SCILLA PEREZ on	11/21/2019	(20PP0448SE)		
Name (Printed/Typed) SAMMY H	IAJAR		Title REGUL/	TORY AN	ALYST		<u>.</u>
Signature (Electronic S	Submission)		Date 11/21/20	19			
	THIS SPACE FOR	FEDERA			SE		
Approved By LONG VO Conditions of approval, if any, are attached. Approval of this notice does not warrant or			TitlePETROLEUM ENGINEER Date 12/		Date 12/03/2019		
hich would entitle the applicant to conduct operations thereon. Office Hobbs itle 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						of the United	
States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.							
(Instructions on page 2) ** BLM REV	SED ** BLM REVISED **	BLM RE	EVISED ** BLM	REVISED	** BLM REVISED	, **	Kat.

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	BTA OIL PRODUCERS LLC
LEASE NO.:	NMNM97153
WELL NAME & NO.:	18H – VACA DRAW 9418 10 FED
SURFACE HOLE FOOTAGE:	220'/S & 1305'/E
BOTTOM HOLE FOOTAGE	50'/N & 1656'/E
LOCATION:	SECTION 10, T25S, R33E, NMPM
COUNTY:	LEA

COA

H2S	⊂ Yes	· No	·
Potash	None	C Secretary	C R-111-P
Cave/Karst Potential	• Low		
Cave/Karst Potential	Critical		
Variance	∩ None	Flex Hose	∩ Other
Wellhead	Conventional	← Multibowl	le Both
Other	☐ 4 String Area	Capitan Reef	└ WIPP
Other	Fluid Filled	Cement Squeeze	F Pilot Hole
Special Requirements	☐ Water Disposal	ГСОМ	└ Unit

All Previous COAs Still Apply

BTA is approved to batch drill the 16H, 17H, 18H, 19H according to the procedure attached in the sundries.

A. CASING

- 1. The 10-3/4 inch surface casing shall be set at approximately 1400 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 <u>8</u> <u>hours</u> 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.

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.
- 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:

- Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 10,000 (10M) psi. Variance is approved to use a 5000 (5M) Annular which shall be tested to 5000 (5M) psi.
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
 - e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

GENERAL REQUIREMENTS

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

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)
 - \boxtimes 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.
- <u>Wait on cement (WOC) for Potash Areas:</u> After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least <u>24 hours</u>. 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. <u>Wait on cement (WOC) for Water Basin:</u> After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least <u>8 hours</u>. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. 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 test.
 - d. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.
 - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not

hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).

- b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the plug. However, no tests shall commence until the cement has had a minimum of 24 hours setup time, 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.

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

BATCH DRILLING SEQUENCE OF THE 19H, 18H, 17H, 16H:

-SPUD Vaca Draw #19H – rig up walked out, drill 14-3/4" hole and set 10-3/4" csg -Walk to Vaca Draw #18H, SPUD 14-3/4" hole and set 10-3/4" csg -Walk to Vaca Draw #17H, SPUD 14-3/4" hole and set 10-3/4" csg -Walk to Vaca Draw #16H, SPUD 14-3/4" hole and set 10-3/4" csg, test BOP, drill and set 7-5/8" csg -Walk to Vaca Draw #17H, test BOP, drill 9-7/8" hole and set 7-5/8" csg -Walk to Vaca Draw #18H, test BOP, drill 9-7/8" hole and set 7-5/8" csg -Walk to Vaca Draw #18H, test BOP, drill 9-7/8" hole and set 7-5/8" csg -Walk to Vaca Draw #18H, test BOP, drill 9-7/8" hole and set 7-5/8" csg -Walk to Vaca Draw #19H, 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 Vaca Draw #18H, test BOP, drill 6-3/4" hole and set 5-1/2" x 5" casing. -Walk to Vaca Draw #18H, test BOP, drill 6-3/4" hole and set 5-1/2" x 5" casing. -Walk to Vaca Draw #16H, test BOP, drill 6-3/4" hole and set 5-1/2" x 5" casing. -Walk to Vaca Draw #16H, test BOP, drill 6-3/4" hole and set 5-1/2" x 5" casing. -Walk to Vaca Draw #16H, test BOP, drill 6-3/4" hole and set 5-1/2" x 5" casing. -Walk to Vaca Draw #16H, test BOP, drill 6-3/4" hole and set 5-1/2" x 5" casing. -Walk to Vaca Draw #16H, test BOP, drill 6-3/4" hole and set 5-1/2" x 5" casing. -Rig release

Mud Program 18H:

Original Permit

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-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
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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 18H

Original APD

-Surface

13-3/8" 54.5# J-55 STC set at 1450' in a 17-1/2" hole

-Intermediate

9-5/8" 40# J-55 @ 5030' in a 12-1/4" hole

- 2nd Intermediate 7" 29# P-110 @ 12540' in a 8-3/4" hole

-Liner

4-1/2" 11.6# P-110 liner from 11940' - 17484' in a 6-1/8" hole

Proposed Change

-Surface

10-3/4" 40.5# J-55 STC set at 1450' in a 14-3/4" hole

- -Intermediate
 - 9-7/8" hole from 1450' to 8013' and 8-3/4" hole from 8013' 11972'. 7-5/8" 29.7# P-110 BTC from 0 7700' and 7-5/8" 29.7# P-110 Stinger HC from 7700' 11972' and DV tool at 5038'
- -Production

11772' of 5-1/2" 20# P-110 BTC and 5736' of 5" 18# P-110 BTC set at 17508' (12501' TVD) in a 6-3/4" hole

Cement Programs

Vaca Draw #18H

Original

-Surface Cement 890 sx

-Intermediate Cement 1490 sx

-2nd Intermediate Cement 730 sx

-Liner Cement 470 sx

Proposed Change

-Surface Cement		
	Lead:	765 sx
		100% Class C
		13.5 ppg, 1.73 ft3/sx
	Tail:	270 sx
		100% Class C
		14.8 ppg, 1.34 ft3/sx
-Intermediate Cement		
	Stg 1 Lead:	575 sx
		100% TXI Lite
		10.5 ppg, 3.32 ft3/sx
	Stg 1 Tail:	105 sx
	-	100% Class H
		15.0 ppg, 1.27 ft3/sx
	Stg 2 Lead:	650 sx
	-	100% Class C Blend
		11.8 ppg, 2.68 ft3/sx
	Stg 2 Tail:	60 sx
	0	100% Class C
		14.8 ppg, 1.33 ft3/sx
-Production Cement	Lead:	780 sx
		40% Class H Premium & Poz-Mix
		13.5 ppg, 1.35 ft3/sx
	Tail:	640 sx
		50:50 Class H Blend
		14.2 ppg, 1.24 ft3/sx

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.

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