

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Artesia

FORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010**SUNDRY NOTICES AND REPORTS ON WELLS**
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.*5. Lease Serial No.
NMNM030456

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on reverse side.7. If Unit or CA/Agreement, Name and/or No.
891000303X

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other8. Well Name and No.
PLU BIG SINKS 1 25 30 USA 1H2. Name of Operator
BOPCO LPContact: COURTNEY LOCKHART
E-Mail: cjlockhart@basspet.com9. API Well No.
30-015-40766-00-X1

3a. Address

MIDLAND, TX 79702

3b. Phone No. (include area code)
Ph: 432-221-730710. Field and Pool, or Exploratory
WILDCAT

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 1 T25S R30E SESW 150FSL 1980FWL
32.152717 N Lat, 103.836142 W Lon11. County or Parish, and State
EDDY COUNTY, NM**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	Change to Original A
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	PD

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 recompleat 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 shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

BOPCO, L.P. respectfully requests permission to amend the casing program for Poker Lake Unit Big Sinks 1-25-30 USA #1H. The 13-5/8" surface casing will be cemented to surface. The salt string will be drilled with an 11" hole drilled to approximately 4,092' and then cased using an 8-5/8", 32 ppf, J-55, LTC intermediate string that will be cemented to surface. The production hole will be a 7-7/8" hole drilled to TD and cased with 5-1/2", 17 ppf, HCP-110, BTC casing and cemented into the 8-5/8" salt string.

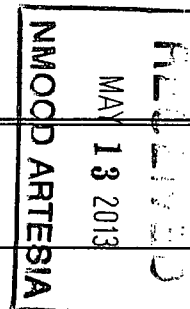
Revised Casing Program:

Type Interval (MD) Hole Size

8-5/8", 32 ppf, J-55, LTC 0 - 4,092' 11"

5-1/2", 17 ppf, HCP-110, Buttress 0 ? 13,956' 7-7/8"

Casing Program Safety Factors:

Added 5/14/2013
Copied for record
NMDCD**SEE ATTACHED FOR
CONDITIONS OF APPROVAL**

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

Electronic Submission #205975 verified by the BLM Well Information System**For BOPCO LP, sent to the Carlsbad****Committed to AFMSS for processing by JOHNNY DICKERSON on 05/02/2013 (13JLD0740SE)**

Name (Printed/Typed) CHRISTOPHER VOLEK

Title DRILLING ENGINEER

Signature

(Electronic Submission)

Date 05/02/2013

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By CHRISTOPHER WALLS

Title PETROLEUM ENGINEER

Date 05/07/2013

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 Carlsbad

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.

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

Additional data for EC transaction #205975 that would not fit on the form

32. Additional remarks, continued

Type Tension Collapse Burst
8-5/8?, 32 ppf, J-55, LTC 3.77 1.16 1.72
5-1/2?, 17 ppf, HCP-110, BTC 5.00 2.10 2.59

Cementing Program: Please see below for updates to cement program

13-3/8? Surface (gauge hole + 100% excess)

Lead Slurry: Class ?C? Cement: 4% Bentonite Gel + 2% Calcium Chloride + 0.125 lb/sk Cellophane + 0.25 lb/sk Antifoam
Lead Volume: 660? sacks
Lead Details: 13.5 ppg, 1.75 ft3/sk yield, H2O 9.133 gal/sk

Tail Slurry: Class ?C? Cement: 1% Calcium Chloride
Tail Volume: 275 sacks
Tail Details: 14.8 ppg, 1.33 ft3/sk yield, H2O 6.323 gal/sk
Tail length: 280?

TOC: Surface .

Intermediate Casing Cement Design and Notes ? Par Five

Lead Slurry: Class ?C? Cement: 6% Bentonite Gel + 0.2% Retarder + 5 lb/sk Kol Seal + 0.25 lb/sk Antifoam + 5% Salt
Lead Volume: 650 sacks
Lead Details: 12.9 ppg, 1.92 ft3/sk yield, H2O 9.805 gal/sk
Tail Slurry: Class ?C? Cement: 0.2% Retarder
Tail Volume: 150 sacks
Tail Details: 14.8 ppg, 1.33 ft3/sk yield, H2O 6.300 gal/sk
Tail Length: 500?

TOC: Surface

Production Casing Cement Design and Notes ? Par Five

1st Stage
Lead Slurry: 65/35 Class ?H?: Poz Cement: 5% Salt + 6% Bentonite + 0.6% Retarder + 0.125 lb/sk Cellophane + 0.25 lb/sk Antifoam + 3 lb/sk Kol-Seal LCM
Lead Volume: 500 sacks
Lead Details: 12.9 ppg, 1.92 ft3/sk yield, H2O 9.922 gal/sk
Top of Lead: DV Tool

Tail Slurry: PVL Cement: 1.3% Salt + 5% Expanding Cement + 0.5% Gel Suppressing Agent + 0.1% Antisettling agent + 0.6% Retarder + 0.25 pps Antifoam
Tail Volume: 800 sacks
Tail Details: 13.0 ppg, 1.48 ft3/sk yield, H2O 7.566 gal/sk
Top of Tail: KOP

TOC: +/- 5,000? (DV Tool)

2nd Stage
Lead Slurry: 65/35 Class ?C?: Poz Cement: 5% Salt + 6% Bentonite + 0.6% Retarder + 0.125 lb/sk Cellophane + 0.25 lb/sk Antifoam + 3 lb/sk Kol-Seal LCM
Lead Volume: 320 sacks
Lead Details: 12.9 ppg, 1.91 ft3/sk yield, H2O 9.922 gal/sk
Top of Lead: 1,000? inside of 8-5/8? shoe

Tail Slurry: Class ?C? Cement: 0.2% Retarder
Tail Volume: 100 sacks
Tail Details: 14.8 ppg, 1.33 ft3/sk yield, 6.320 gal/sk
Tail Length: 500?

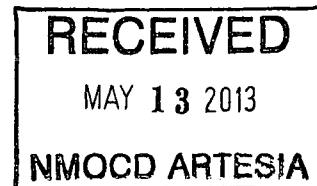
TOC: 3,000?

CONDITIONS OF APPROVAL

OPERATOR'S NAME:	BOPCO, LLC
LEASE NO.:	NM030456
WELL NAME & NO.:	PLU BIG SINKS 1 25 30 USA
SURFACE HOLE FOOTAGE:	150'/S. & 1980'/W.
BOTTOM HOLE FOOTAGE:	330'/N. & 1980'/W.
LOCATION:	Section 1, T. 25 S., R. 30 E., NMPM
COUNTY:	Eddy County, New Mexico

I. DRILLING

A. DRILLING OPERATIONS REQUIREMENTS



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

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)

☒ **Eddy County**

Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,
(575) 361-2822

1. **Although Hydrogen Sulfide has not been reported in the area, it is always a potential hazard. If Hydrogen Sulfide is encountered, please report measured amounts and formations to the BLM.**
2. 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. **If the drilling rig is removed without approval – an Incident of Non-Compliance will be written and will be a “Major” violation.**
3. 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.
4. **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.**

B. CASING

Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size. 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.).

Centralizers required on surface casing per Onshore Order 2.III.B.1.f.

Wait on cement (WOC) time prior to drilling out for a primary cement job will be a minimum 18 hours for a water basin, 24 hours in the potash area, or 500 pounds compressive strength, whichever is greater for all casing strings. DURING THIS WOC TIME, NO DRILL PIPE, ETC. SHALL BE RUN IN THE HOLE. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. See individual casing strings for details regarding lead cement slurry requirements.

No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

Medium cave/karst

Possible water flows in the Castile, Salado, Delaware and Bone Springs Groups

Possible lost circulation in the Delaware and Bone Spring formations

1. The 13-3/8 inch surface casing shall be set at **approximately 1075 feet (below the Magenta Dolomite member of 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 is to include the lead cement slurry.**
 - 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.
2. The minimum required fill of cement behind the **8-5/8** inch intermediate casing is:
 - ☒ Cement to surface. If cement does not circulate see B.1.a, c-d above.
Additional cement may be required – excess calculates to 12%.

If 75% or greater lost circulation occurs while drilling the intermediate casing hole, the cement on the production casing must come to surface.

Centralizers required on horizontal leg, must be type for horizontal service and a minimum of one every other joint.

3. The minimum required fill of cement behind the **5-1/2** inch production casing is:
 - ☒ Cement should tie-back at least **500** feet into previous casing string. Operator shall provide method of verification.
4. 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.

C. 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. Variance approved to use flex line from BOP to choke manifold. 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..** If the BLM inspector questions the straightness of the hose, a BLM engineer will be contacted and will review in the field or via picture supplied by inspector to determine if changes are required (operator shall expect delays if this occurs).
3. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **3000 (3M) psi.**

- a. **For surface casing only:** If the BOP/BOPE is to be tested against casing, the wait on cement (WOC) time for that casing is to be met (see WOC statement at start of casing section). Independent service company required.
4. 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. 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 (18 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).
 - c. 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.
 - d. The results of the test shall be reported to the appropriate BLM office.
 - e. 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.**
 - f. 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.

D. DRILL STEM TEST

If drill stem tests are performed, Onshore Order 2.III.D shall be followed.

E. 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.

CRW 50713