

Submit 3 Copies To Appropriate District  
Office

District I

1625 N. French Dr., Hobbs, NM 88240

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1301 W. Grand Ave., Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

1220 S. St. Francis Dr., Santa Fe, NM  
87505

State of New Mexico  
Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-103  
March 4, 2004

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b> (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)		WELL API NO. 30-025-36489
1. Type of Well: Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other		5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
2. Name of Operator LATIGO PETROLEUM INC		6. State Oil & Gas Lease No. VA-564
3. Address of Operator 415 W. Wall, Suite 1900 Midland, TX 79701		7. Lease Name or Unit Agreement Name COPPERHEAD 18 STATE
4. Well Location Unit Letter <u>P</u> : 660 feet from the <u>S</u> line and 660 feet from the <u>E</u> line Section 18 Township 24S Range 33E NMPM County LEA		8. Well Number 1
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3541' GR 3568.5' KB		9. OGRID Number 148967
		10. Pool name or Wildcat Triste Draw Atoka, East Gas

Pit or Below-grade Tank Application (For pit or below-grade tank closures, a form C-144 must be attached)

Pit Location: UL \_\_\_\_\_ Sect \_\_\_\_\_ Twp \_\_\_\_\_ Rng \_\_\_\_\_ Pit type \_\_\_\_\_ Depth to Groundwater \_\_\_\_\_ Distance from nearest fresh water well \_\_\_\_\_  
Distance from nearest surface water \_\_\_\_\_ Below-grade Tank Location UL \_\_\_\_\_ Sect \_\_\_\_\_ Twp \_\_\_\_\_ Rng \_\_\_\_\_ ;  
feet from the \_\_\_\_\_ line and \_\_\_\_\_ feet from the \_\_\_\_\_ line

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data  
NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐  
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐  
PULL OR ALTER CASING ☐ MULTIPLE COMPLETION ☐  
OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐  
COMMENCE DRILLING OPNS. ☐ PLUG AND ABANDONMENT ☐  
CASING TEST AND CEMENT JOB ☒  
OTHER: PERFS ☒

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

14,627' TD. WOC after running 4-1/2" csg/liner - Atoka Banks 6-1/8" hole - See back for complete liner/Cmtg Detail, perfs, etc

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☐, a general permit ☐ or an (attached) alternative OCD-approved plan ☐.

SIGNATURE Bonnie Husband TITLE Production Analyst DATE 06/28/2004

Type or print name Bonnie Husband

E-mail address: bhusband@latigopetro.com Telephone No. (432)684-4293

(This space for State use)

APPROVED BY Larry W. Wink OFFICIAL REPRESENTATIVE II/STAFF MANAGER  
Conditions of approval, if any

JUL 06 2004  
DATE

**5-8-04** SITP 250 psi this AM, Blow dwn. RU Pro Well Testing & WL, RIH w/R-profile plug on slickline & set in profile nipple @ 14,438'. POOH & RD Pro slickline. Pour 2 sx sd dwn tbg & pumped 48 bbls dwn, ND x-tree WH, NU BOP, release tbg off pkr. Pump 50 bbls dwn tbg to get sd dwn inside 4-1/2" liner to fall dwn on to pkr & profile plug. SOOH, LD 175 jts 2-7/8" 8.7#PH6 on rack & SDFN. Continue to POOH, LD 211 jts 2-7/8" P-110 tbg, & LD 69 jts 2-3/8" PH6

**5-13-04** Continue to PU 4-1/2" P110 15.5# tbg & RIH 37 jts. & 8' sub, hydrotesting to 8500 psi. PU 4-1/2" x 8' sub sting into liner @ 12,367'. Total 398 jts - 12,338.87' in hole. Test annulus to 1100 psi for 30-mins, no flow out tbg.. Note: tbg wt 170K before sting into liner, left tbg w/46K in compression. RD Hydro-testers & PU machine crew & csg crew. NU frac valve 10K & flange on top of BOP, retest annulus to 1450 psi for 10-mins. No flow out tbg.

**5-14-04** PU 2" sinker bars & Gamma tool & 2-1/16" perf gun. Shoot 4 SPF @ 14,384'-88' - 16 holes. Correlate w/CBL log. Note: No press on well after shooting perfs. POOH, RIH w/CCL tool & perf guns & shoot 4 SPF @ 14,228'-32' & 14,248'-52' - 32 holes. Had 500# on zone 14,248'-52'. 1500# on zone 14,228'-32' after shooting. POOH w/guns. SITP 3150 psi, RD WL trk. SITP 3900 psi, install choke. Tbg vol 2-5 bbls. Open to tank @ 4:30 PM 5-13-04, full open choke after 5 mins. 5:00 PM flow 17 bbls, 5:30 PM flow 4 bbls, 6:30 PM flow 4 bbls, 7:30 PM flow 7 bbls, 8:30 PM flow 6 bbls. Flowed 38 bbls total in 4 hr time period. Rec 205 BLW & 54 BW.

1-9.76' Baker Tie-back-nipple

398 jts - 12,338.87' - 4-1/2" 15.5# PH6 (P110)

1-7.71' 4-1/2" 15.5# x 8' sub

Total 12,377.3' w/21' KB

**5-16-04** RU Cardinal Surveys and run Flowing Trac III Survey. Tag @ 14,366' leaving the perfs @ 14,384'-88' covered. Perfs @ 14,384'-88' flowing 16 BWPD. Perfs 14,248'-52' not contributing. Perfs @ 14,228'-32' flowing 98 BWPD. Well died @ 3:00 PM 5-15-04. Recovered 24 BW. SI @ 6:00 PM 5-15-04

**5-18-04** SITP 2500 psi, press builds up in 37 hrs, op to tk on 16/64" ck @ 7:30 AM 5-17-04. 11:45 AM - FTP on 17/64" ck, estimated rate of 1.3 MMCF. 12:30 PM FTP 30, ARO 77 MCF, no fluid produced. 5:00 PM FTP 0 psi. Flw'g w/no back pressure on test unit, ARO 16 MCFGPD. Left flw'g to tank for night

**5-29-04** SITP 900 psi & SICP 850 psi. Blow tbg & csg dwn, RU Cudd Pumping Ser, pumped 85 bbls 2% KCL wtr dwn annulus, caught press 500#, begin acidizing perfs 14,248'-52' w/2000 gals 15% NEFE HCL, annulus communicating, CP 1800 psi. Bleed annulus dwn to 1000 psi while pumping acid - 15 bbls flowback. SD pumping, reverse acid out of annulus back up into tbg w/15 BW. Put 3000# on annulus & begin pumping back on tbg until annulus reached 4000 psi, TP 3260 psi. SD, let tbg & csg bleed dwn. Start process again, no change after 4-hrs w/acid on perfs & no formation break. Start pumping & let annulus go to 4500 psi & TP 4000 psi before SD & wait 15-mins between settings, TP 4000 & CP 4500, would bleed dwn to 2925 TP & CP to 3485 psi. Continue until 19 bbls acid pumped into formation. SITP 3841 psi. Open up to tank, flow 18 BW w/FTP 0. RU on annulus & pumped 70 bbls, reverse out 24 bbls acid out. Circ @ 1100 psi @ 2 BPM. RD Cudd, Total load 139 bbls, 121 BLTR, Op to tank on 64/64" choke @ 5:00 PM w/FTP 120, 6:00 PM FTP 40, rec 35 bbls. 7:00 PM FTP 0, rec 8 bbls, 78 BLTR. SI for BU @ 7:10 PM. 8:10 PM-SITP 165 psi, 8:10 PM, SITP 165 psi. Op up to tank, bleed dwn 1-min, no fluid. Wait 1-hr, no fluid made. SI tbg @ 9:00 PM. 11:00 PM SITP 260 psi. Bleed dwn in 2-mins, no fluid made. SI tbg @ 12:00 AM 5-29-04

**6-02-04** SITP 400 psi, SICP 4200 psi - Blow tbg dwn to tank, no fluid made, RU swab, IFL 1000', well kicked off flw'g @ 8:00 AM to 10:00 AM & died. Made 65 BW. Wait 1-hr, made no fluid. RU swab. RIH to 9500', no fluid level. RIH to 13,300', no fluid. Install 2" flow nipple w/5/8" orifice plate, flw'g on 2#-50 MCF w/600# on annulus. Wait 2-hrs, RIH w/swab. FL @ 12,200', rec 2 BW. Well kicked off & flw'd 1/2 BW. Well dead after 1-hr. Rec 67-1/2 BW

**6-05-04** PU on-off tool & RIH on 460 jts (14,294.88') 2-3/8" N-80 tbg. Latch on pkr @ 14,325'. Pull 18K over wt, ND BOP & space out w/1- 2-3/8" N-80 x 4' sub & NU WH x-tree. Set 17K compression on pkr. Note: tbg wt 62K. RU pump trk & pump 30 bbls 2% KCL wtr dwn tbg. Wait on slickline trk. RIH w/slick

& tools (FL @ 4500') to equalize perfs 14,384'-88' w/tbg. POOH – FL came up to 1800'. RIH w/slickline tool & retrieve plug. POOH & RD slickline. SITP & SICP 0 psi

**6-13-04** ND Frac valve & remove 4-1/2" x 2' sub & install 4-1/2" x 5.67' sub, set 70K compression on liner top & seal assy. NU frac valve. RU tree save on frac valve & RU BJ Ser & BOC Gas. Spear head 2000 gals 7-1/2% HCL into perfs 14,228'-32' & 14,244'-51' & 14,384'-88' & frac w/9262 gal 65 Quality 20# Linear Gel pad & CO<sub>2</sub> foam & 37,000 gals 65 Quality Medallion 3500 fluid w/40,500# 20/40 Interprop. Ramp f/0.5# to 3# & 124 tons of CO<sub>2</sub>. Max press 10,575 psi, avg 10,460, min 9275. Max inj rate 32 BPM, avg 30 BOP. Flush 32 BPM. ISDP 5362, 5 mins 5140, 10 mins 5072, 15 mins 5050. **Total Load 427 bbls.** RD BJ & Guardian tree saver, NU flowback manifold & op up. 1:00 PM FTP 5000 psi, 14/64" choke ARO 5.3 MCF. 3:00 PM FTP 4790 psi, 10/64" choke ARO 2.6 MCF. Rec 37 bbls. 6:00 PM FTP 3800 psi, 11/64" choke, ARO 2.5 MCF. Total recovery 136 bbls. 9:00 PM FTP 1400 psi, 13/64" choke, ARO 1.2 MCF, total rec 209 bbls. 12:00 AM FTP 600 psi 18/64" choke ARO 1.1 MCF. Total recovery 238 bbls. 1:00 AM FTP 400 psi, 20/64" choke ARO 936 MCF, total rec 268 bbls. 3:00 AM FTP 210 psi, 26/64" choke, ARO 446 MCF, total rec 290 bbls. 6:00 AM FTP 450 psi, 20/64" choke, ARO 1.0 MCF, total rec 333 bbls.

**6-17-04** FTP 450 psi on 14/64" choke. Op up & bleed dwn to 50 psi. RU Apollo WL. PU Baker Model WL pkr 3.65" OD w/1.87 profile F & 2-3/8" N-80 x 6' sub & 1.81" F profile nipple & WL entry guide on setting tool & CCL tool. RIH & correlate w/CBL log on liner top & csg collar @ 14,136'. Set pkr @ 14,128'. POOH w/WL & blow csg dwn 900 psi to 0 in 1-hr. PU on/off tool & RIH on 140 jts 2-3/8" N-80. Well kicked off flw'g 500 psi on annulus. Bleed dwn to tank for 3-hrs. Still flw'g on 64/64" choke w/45 psi. Left op to tank overnight

**6-24-04** 8:30 AM, FTP 450 psi on 18/64" choke, ARO 500 MCF. Sold 494 MCF overnight & produced 5 BO & 5 BW. RU Pro Well Test SL, RIH w/1.05" OD SB & jars. Tag up @ 14,386'. POOH & RIH w/1.81" OD F-plug, set in PN @ 14,226' - SL depth 14,116'. POOH & RD Pro Well Test slickline, blow tbg dwn @ 1350 psi to tank, load tbg w/50 bbls 2% KCL & test plug to 600 psi. ND x-tree, NU BOP, release off pkr & POH w/453 jts 2-3/8" N-80 & on/off tool. Change out pipe rams in BOP to 4-1/2". MIRU lay down machine. Prep to POOH w/4-1/2" tbg

# Well Schematic and History

Lease: Copperhead 18 St Well: 1 Field: Trieste Draw  
 Location: 660' From South Line and 660' From East Line  
Section 18 - T24S - R33E

County: Lea State: New Mexico

API No.: 30-025-

Spud Date: 1/1/04  
 Compl. Date: \_\_\_\_\_

GL: 3541'  
 DF: \_\_\_\_\_  
 KB: 3568.5

## SURF CSG

13 3/8" 48# @ 727'  
 Cmt'd w/ 575 sx (17 1/4" hole)  
 TOC @ surface by circ.

7" TOC @ 3810' by TS.

## INTER CSG

9 5/8" 40# @ 5034'  
 Cmt'd w/ 2900 sx (12 1/4" hole)  
 TOC @ surface by circ.

7" DV tool @ 6895'

## PROD CSG

7" 23&26# N80/P110 @ 12646'  
 Cmt'd w/ 700 sx (8 1/2" hole)  
 TOC @ 7230' by TS.

Strawn Perfs 14228-252'

Strawn Perfs 14384-388'

Atoka Bank Perfs 14477-14532'

## Liner - Top @ 12362'

4 1/2" 15.1# @ 14627'  
 Cmt'd w/ 345 sx (6 1/8" hole)

TD 14627'

## DATE INITIAL COMPLETION DATA:

4/24/04 Perf Atoka Bank 14477-489' w/ 4 spf (52 holes)

Broke perfs w/ water, 3 BPM @ 8600#, ISI 5729#  
 Swab dry

5/4/04 Perf Atoka Bank 14500-05', 514-32' w/ 4 spf (92 holes)

Acidized w/ 2500 gal 15% NEFE, AIR 4.7 BPM @ 7059#  
 Swab dry

5/14/04 Perf Strawn 14228-32, 248-52', 384-88' w/ 4 spf (48 holes)

500# after shooting 14248-52', 1500# after 14228-32'

Delaware @ 5056'  
 Cherry Canyon @ 6146'  
 Brushy Canyon @ 7274'  
 Bone Spring @ 8852'  
 1st BS sand @ 9398'  
 2nd BS sand @ 10470'  
 Wolfcamp @ 12210'  
 Strawn @ 14156'  
 Atoka @ 14390'  
 Atoka Bank @ 14459'

Baker Tie- back nipple - 9.76'  
 398 jts of 4 1/2" P110 work string - 12338.87'  
 1 - 4 1/2" P110 sub - 7.71'

WL entry guide, 1.71' profile-R-nipple, 8' x 2-3/8" P-110 8rd EUE sub  
 on Baker Model -DAB 2.5" ID pkr @ 14430'  
 Model R plug @ 14438', sand on plug