

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

GCD HORRS

FORM APPROVED  
OMB No. 1004-0137  
Expires: March 31, 2007

**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.*

**SUBMIT IN TRIPLICATE- Other instructions on reverse side.**

1. Type of Well  
☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator **PATTERSON PETROLEUM LP**

3a. Address  
**P.O. DRAWER 1416, SNYDER, TX 79550**

3b. Phone No. (include area code)  
**325/573-1938**

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

**SEC. 24, T-17S, R-32E**

5. Lease Serial No.  
**LC-059152b**

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.  
**COOPER 24 FEDERAL COM. NO. 1**

9. API Well No.  
**30-025-37841**

10. Field and Pool, or Exploratory Area  
**LEAMEX MORROW WEST**

11. County or Parish, State  
**LEA**

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

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input checked="" type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input checked="" 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 type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> 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 shall 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 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.)

**08/16/06 - 09/07/06 - ATTACHED DAILY COMPLETION REPORT**

14. I hereby certify that the foregoing is true and correct  
Name (Printed/Typed)

**Nolan von Roeder**

Title **Engineer**

Signature

Date

**10/04/2006**

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

Title

Date

**OCT 31 2006**

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

**WESLEY W. INGRAM**  
**PETROLEUM ENGINEER**

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 Federal or State official any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

324 2526

1516

1234

PATTERSON PETROLEUM LP  
P.O. DRAWER 1416  
SNYDER, TX 79550  
325/573-1938

**COOPER 24 FEDERAL COM NO. 1**

Sec. 24, T-17-S, R-32-E  
Lea County, New Mexico  
Property Code #35622 – API #30-025-37841

**DAILY COMPLETION REPORT**

- 08/16/06 MIRUPU. Nipple up 5000 psi BOP. Picked up 6 – 3½” drill collars & 4-3/4” bit. Ran in the hole with new 2-3/8” N80 tubing. Tagged cement @6940’. Washed through cement to DV tool @7030’. Drilled out DV tool. Circulated clean. Rigged up pump truck & tested DV good @4500 psi. Continued in with tubing to PBTD @13,720’. Displaced hole with 313 bbls of 10#/gallon brine water. Rigged down reverse unit. Pulled out of hole with 250 joints of tubing & shut well in for night.
- 08/17/06 Finished tripping out of the hole with tubing. Laid down drill collars & bit. Rigged up wireline truck. Ran in with GR/CBL/CCL to loggers PBTD @13,699’. Ran logs across Morrow zone, DV tool, Paddock zone & top of cement @4150’. Had good cement & bond at pay zone intervals & DV tool. Ran in hole with 3-3/8” gun. Perforated (13,509-14’) & (13,611-20’) 3 spf, 120° phasing. Had no reaction from well. Pulled out of the hole & rigged down wireline truck. Picked up 10’ – 2-3/8” sub with 1.78” profile nipple below 10K 5-1/2” x 2-3/8” packer. Ran in the hole. Left packer loose above perfs for the night. Shut well in.
- 08/18/06 SITP = 1150 psi. SICP = 1050 psi. Flowed gas off of both. Casing continued gassing. Pulled tubing up to 13,379’ & set packer in 20,000 lbs of compression. NDBOP. NU tree & tested seal to 8000 psi. Rigged up pump truck & tested packer to 3000 psi. Rigged up & swabbed tubing down to 6500’ from surface in 6 runs. Well kicked off flowing. Rigged up Guardian tree saver. Rigged up Halliburton pump trucks & treated w/2000 gals of Claysafe “H” acid, 30 balls & flushed w/58 bbls of 6% KCL water. Average pressure & rate 8300 psi @3.2 bpm. Did not see any ball action. ISIP = 6233psi, 5 min = 5867 psi, 10 min = 5652 psi & 15 min = 5514 psi. Continued to record bleed off for total of 90 minutes. Pressure @4383 psi after 90 minutes. Rigged down Halliburton & Guardian. Began flowing well back. Recovered 10 bbls of fluid. Rate & pressure dropped low enough to swab. Swabbed down to 5600’. Recovered 35 bbls of 105 bbl load. Tubing had a slight blow. Shut tubing in for the night.
- 08/19/06 SITP = 1400 psi. Began flowing gas to tank. Recovered 21 bbls of water. Pressure & rate dropped enough to swab. Made 3 runs & well kicked off flowing. Recovered a total of 85 bbls (load – 105 bbls), had a trace of condensate. Turned through test separator. Left flowing at rate of 450 mcf/day on 12/64” choke. Tubing pressure – 550 psi. Burning gas at the flare. Continued flowing overnight.
- 08/20/06 Choke plugged. 1500 psi on tubing. Flow rate - 15 mcf/day. Recovered 14 bbls of water & 4 bbls of condensate in 18 hours. Total water recovered is 100 bbls. Cleared choke & continued flowing. Checked well in afternoon – holding 200 psi on tubing, flow rate 290 mcf/day. Made 2 bbls of fluid in 5 hours (50% condensate). Left well flowing.

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Lea County, New Mexico  
Property Code #35622 – API #30-025-37841

**DAILY COMPLETION REPORT**

- 08/21/06 Flow rate 300 mcf/day on 200 psi. Made 5 bbls of water & 35 bbls of condensate in 24 hours. Continue testing well.
- 08/22/06 Flowing on 200 psi. Rate 300 mcf/day. Made 30 bbls of condensate in 24 hours.
- 08/23/06 FTP – 200 psi. Gas rate = 300 mcf/d. Made 33 bbls condensate in 24 hrs. Rigged up Arc Pressure Data & ran in the hole with bottomhole pressure gauges. Set same in profile nipple. Pulled out of the hole & rigged down slickline. Shut well in for pressure buildup. @5:00 p.m. – SITP – 550 psi.
- 08/24/06 SITP = 1750 psi @7:00 a.m. Went back to check pressure @6:00 p.m. & found that swab valve on tree was left shut by slickline company. SITP = 4150 psi. Capping flange was leaking, shut swab valve back.
- 08/25/06 SITP = 4150 psi @6:30 a.m.
- 08/26/06 SITP = 4250 psi. Rigged up slick wireline truck. Ran in the hole & latched onto gauges. Tripped out making gradient stops every 2000'. BHP = 6549 psi. BHT = 180°. Turned well into test equipment & flowed well down to 200 psi. Left flowing overnight. MIRUPU & shut down for night.
- 08/27/06 At 7:00 a.m. well was flowing on 200 psi tubing pressure, rate 600 mcf/day. Made 25 bbls of condensate in 13 hours. Loaded tubing with 48 bbls of 10#/gal brine water. Nipple down tree. Nipple up BOP. Unset packer. Tubing began flowing brine water back. Unloaded 48 bbls of brine water with ±5 bbls of condensate & gas. Tubing slowed down enough to start out of the hole. Rigged up pump truck on casing. Tubing continued to flow while pulling. Pumped 65 bbls of brine water down casing while tripping. Pulled out of the hole & laid down packer. Pumped 10 bbls of brine down casing. NDBOP. Nipple up 10K frac valve & tested to 9000 psi. Shut well in for the night.
- 08/28/06 Casing on a slight vacuum. Rigged up BJ coil tubing unit (1-3/4") & nitrogen pump. Began pumping 500 scf per minute nitrogen while running in the hole with tubing. Got under fluid @3600'. Ran on into 11,000', did not unload fluid. Pulled back up to 5000' from the surface & began unloading fluid. Started back in the hole. Got under fluid @7500'. Ran in to 11,500'. Pulled back up to 6800' & unloaded fluid. Ran back in pumping nitrogen @rate of 1000 scf. Got under fluid @11,000'. Ran on into the bottom @13,740'. Pumped nitrogen at rate of 1000 scf for 30 minutes. Pulled out of the hole & blew hole dry. Rigged down coil tubing unit.

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DAILY COMPLETION REPORT

- 08/29/06 SICP = 800 psi. Rigged up Guardian isolation tool. Rigged up BJ Services frac & FloCO2 equipment. Held safety meeting. Tested lines to 11,000 psi. Frac down 5½" production casing with 456 bbls 6% KCL water, 44,000 lb 20/40 Bauxite & 160 tons of CO2.
- 27 bbls 35# Medallion prepad  
375 bbls 70% 35# Medallion pad 30.2 bpm @9009 psi  
148 bbls 71% .64 lb/gal 20/40 Bauxite 29.2 bpm @8900 psi  
140 bbls 69% .86 lb/gal 20/40 Bauxite 30.8 bpm @8829 psi  
216 bbls 73% 1.64 lb/gal 20/40 Bauxite 29 bpm @8893 psi  
106 bbls 65% 3.11 lb/gal 20/40 Bauxite 29 bpm @8950 psi  
45 bbls 67% 3.56 lb/gal 20/40 Bauxite 29 bpm @8972 psi  
300 bbls 60% 35# Medallion Flush 29 bpm @9269 psi  
Final pressure 9552 psi, ISIP = 9472 psi, 5 min 7088 psi. Average 29.6 bpm @8985 psi. Rigged down frac equipment. Rigged up wireline truck with 10K lubricator. 6200 psi on casing. Picked up 5½" 10K composite bridgeplug. Ran in the hole & stacked out on sand @13,350'. Pulled out & rigged down wireline. Turned into flowback manifold & began flowing back with 5750 psi on casing. Recovered 250 bbls of fluid. Well stabilized @300 psi on 48/64" choke. Making light sand, fluid, gas & a large amount of CO2.
- 08/30/06 Flowing to pit 300 psi, choke set on 48/64". Recovering CO2, water & light sand to the pit. Continued flowing until sand cleared up. Recovered ±270 bbls of fluid to flowback tank & reserve pit. Rigged up STS 10K lube & wireline truck. Ran in the hole to 13,550' with junk basket, did not set down on any sand. Pulled out of the hole & had a small amount of sand in the bottom of the basket. Picked up & ran in the hole with 5½" 10K composite plug with flow through ball. Set plug @13,500'. Pulled out of the hole. Made two casing gun runs. Perforated (13,438-40') & (13,472-80') 3 spf 120° phasing. Casing pressure increased 200 psi after first run. Did not see anything after 2<sup>nd</sup> run. Rigged down wireline truck & left 1500 psi shut in on casing.

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**DAILY COMPLETION REPORT**

- 08/31/06 SICP = 3150 psi. Waited on BJ for frac. BJ on location @4:00 p.m. Rigged up casing isolation tool. Rigged up BJ frac equipment & FloCO2. Held pre-job safety meeting. Tested lines to 11,000 psi, had leak on isolation tool. Rigged down & repaired tool. Rigged up & tested lines to 11,000 psi, all tested good. Opened tree saver, had 3315 psi on casing. Started prepad. Formation broke @9996 psi.  
14 bbls prepad @31.2 bpm @7995 psi.  
605 bbls 69% 38# Medallion 32.2 bpm @9859 psi  
288 bbls 72% .52 lb/gal Bauxite 28.3 bpm @9807 psi  
238 bbls 70% .99 lb/gal Bauxite 26.5 bpm @9717 psi  
273 bbls 72% 2.06 lb/gal Bauxite 24.9 bpm @9555 psi  
173 bbls 66% 3.01 lb/gal Bauxite 24.9 bpm @9355 psi  
79 bbls 68% 4 lb/gal Bauxite 24.9 bpm @9239 psi  
295 bbls 59% 35# flush 24.5 bpm @9542 psi  
Final pressure 9900, ISIP = 8739 psi, 5 min = 8075 psi, 10 min = 7829 psi & 15 min = 7696 psi. Average rate 28 bpm @9596 psi.  
Total fluid for this stage is 637 bbls. Used 74,980 lbs of 20/40 Bauxite & 228 tons of CO2.  
Rigged down frac equipment & rigged up flowback equipment. Began flowing well back with 6800 psi on the casing. Recovered 305 bbls of fluid, a large slug of sand & a large amount of CO2. At 7:30 a.m. well was flowing on 34/64" choke with 800 psi. Shut well in & began rigging up coil tubing unit.
- 09/01/06 Rigged up 1-3/4" coil tubing unit. Picked up 4.5" mill with motor. Loaded coil & tested motor with 6% KCL water. Ran in the hole holding 1700 psi on well. Flowing on 16/64" choke. Recovered CO2, mist & small amount of gas. Drilled out composite plug @13,500'. Pulled plug down to 13,578' & stacked out. Drilled on plug & then washed down to PBTD @13,700'. Pumped high VIS sweep. Circulated bottoms up. Recovered packer rubber & frac balls. Started out of the hole. Casing loaded up with 6% KCL water. Pulled out of the hole & laid down motor & mill.
- 09/02/06 Trip in hole with coil tubing at 5005', stopped & pumped nitrogen. Trip in the hole to 10,300' & pumped nitrogen. Went down to 10,760', tagged up. Pulled up 100', went back down & tagged @10,703'. Pulled coil tubing out of the hole. Ran back in the hole to 13,685' & circulated with nitrogen for 30 minutes. Tripped out of the hole. Rigged down coil tubing & nipped up tree. Opened up with 950# at 12:30 a.m. on 48/64" choke. Pressure at 100# @6:00 a.m.
- 09/03/06 Flowed well & left open until 4 p.m., closed in with 400#. At 8:00 p.m. had 1500 psi
- 09/04/06 At 7:00 a.m. – 3000 psi.

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**DAILY COMPLETION REPORT**

- 09/04/06 SICP = 3150 psi. Rigged up wireline truck with 5000 psi lube. Ran in the hole with 4.62" gauge ring & junk basket to 13,350', did not see any sand. Ran in the hole with 10K packer & set @13,392'. Pulled out of the hole & laid down setting tool. Began bleeding gas off casing. Bled down in 3.5 hours. Left casing venting overnight.
- 09/05/06 Nipped down frac valve. Nipped up BOP. Tripped in the hole with tubing. Rigged up pump truck & circulated casing with 6% KCL water. Latched onto on/off tool. Spaced out tubing. Unlatched from packer. Nipped down BOP. Picked up subs for space out. Latched back onto packer. Landed tree with tubing in 15,000# compression. Rigged up pump truck & pumped out plug with 1500 psi. Rigged down pump truck. Opened tubing up to flowback tank, had gas to the surface in 15 minutes. Turned well into test separator with 2700 psi on tubing. Left well flowing on 14/64" choke. Rate 1200 mcf/day, pressure 2000 psi.
- 09/06/06 FTP = 2000 psi. Gas rate = 1200 MCF/D. Made 40 bbls of condensate & 40 bbls water.
- 09/07/06 FTP = 1950 psi. Flowrate = 1200 MCF/D. Made 55 bbls condensate with a trace of water. Will check CO2 content in gas, then shut well in to wait on gas line (approximately one week). Still flowing 5% CO2, will continue to flow until CO2 is less than 3%.

**TUBING DETAIL**

1 – jt 2-3/8" N80 4.7# tubing	31.24'
1 – 2-3/8" N80 4.7# sub	8.10'
1 – 2-3/8" N80 4.7# sub	6.05'
1 – 2-3/8" N80 4.7#sub	4.06'
424 – jts 2-3/8" N80 4.7# tubing	13,332.84'
1 – 5-1/2" z 2-3/8" 10K AS-1X w/1.78"F on/off	8.95'
1 – 2-3/8" N80 4.7# sub	10.15'
1 – 2-3/8" x 1.78"R nipple	.80'
1 – 2-3/8" Collar re-entry w/pump out plug	.42'
Used 10 KB correction	10.00'

**Bottom of assembly @13,412.61'**