

Submit 3 Copies To Appropriate District
Office
District I
1625 N. French Dr., Hobbs, NM 88240
District II
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

Form C-103
May 27, 2004

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

WELL API NO. 30-025-36914
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name ALPHA "7"
8. Well Number 2
9. OGRID Number 141928
10. Pool name or Wildcat WILDCAT; MISSISSIPPIAN

11. Elevation (Show whether DR, RKB, RT, GR, etc.)

Pit or Below-grade Tank Application ☐ or Closure ☐

Pit type _____ Depth to Groundwater _____ Distance from nearest fresh water well _____ Distance from nearest surface water _____

Pit Liner Thickness: _____ mil Below-Grade Tank: Volume _____ bbls; Construction Material _____

SUNDRY NOTICES AND REPORTS ON WELLS
(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.)

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

2. Name of Operator PATTERSON PETROLEUM LP

3. Address of Operator P.O. DRAWER 1416
SNYDER, TX 79550

4. Well Location

Unit Letter D : 695 feet from the NORTH line and 330 feet from the WEST line
Section 7 Township 15S Range 34E NMPM County LEA

11. Elevation (Show whether DR, RKB, RT, GR, etc.)

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 COMPL ☐

OTHER: ☐

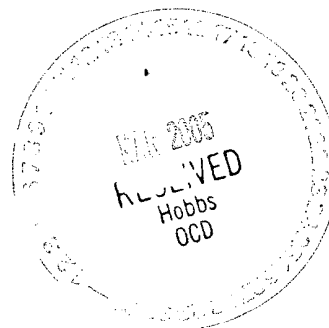
SUBSEQUENT REPORT OF:

REMEDIAL WORK ☒ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ P AND A ☐
CASING/CEMENT JOB ☐

OTHER: ☐

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.

SEE ATTACHED DAILY COMPLETION REPORT.



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 NMOC guidelines ☐, a general permit ☐ or an (attached) alternative OCD-approved plan ☐.

SIGNATURE Nolan von Roeder TITLE ENGINEER DATE 03/10/2005

Type or print name Nolan von Roeder

E-mail address: vonroedern@patenergy.com Telephone No. 325-573-1938

For State Use Only

APPROVED BY: [Signature] TITLE _____
Conditions of Approval (if any):

PETROLEUM ENGINEER

MAR 24 2005

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

ALPHA "7" NO. 2
Sec. 7, T-15-S, R-34-E
Lea County, New Mexico

DAILY COMPLETION REPORT

- 01/06/05 MIRUPU. NUBOP. Picked up 4-3/4" bit & scraper. Began picking up new 2-7/8" L80 tubing from the rack. SWIFN.
- 01/07/05 Continued picking up tubing to depth of 13,628'. Rigged up pump truck & circulated well with 290 bbls of 10#/gal brine water. Pressured up on casing & BOP to 3000 psi (tested good). Began pulling out of the hole with tubing. SWIFN.
- 01/08/05 Finished pulling tubing. Laid down bit & scraper. Rigged up wireline truck & ran in hole with GR/CBL/CCL. Had good cement across pay zones. PBTD @13,982', top of cement @7150'. Rigged down wireline truck. Will perforate Monday morning.
- 01/10/05 Rigged up pump truck & loaded casing with 15 bbls of 10#/gal brine water. Rigged up wireline truck. Ran in the hole with 3-3/8" perforating gun. Perforated Morrow Sand @13,528-36' & 13,584-93'. Pulled out of the hole with wireline & rigged down. Picked up 5 1/2" 10K Arrow-set packer w/2-7/8" N80 sub, 2.313" XN profile with wireline re-entry guide, 2.313" X profile & on-off tool. Set packer @13,428' & re-entry @13,432'. Closed pipe rams & rigged up pump truck on casing. Tested packer good @2000 psi. NDBOP. Nipple up 10K tree, tested seal good @8000 psi. Hooked up flowline to test tank. SWIFN.
- 01/11/05 Had 0 psi on tubing. Rigged up swab. Had fluid @200' from the surface on first run. Swabbed fluid level down to 10,500' from the surface. Recovered 79 bbls of brine water. Had weak gas blow on last two runs. SWIFN.
- 01/12/05 Had 450 psi on tubing. Opened up to test tank & bled gas off with no fluid. Rigged up swab. Had fluid @8400' from the surface on first run. On third run had fluid @10,500' from the surface. Lost No-Go & swab cups in the tubing. Ordered out BOP. Will pull tubing in the morning. SWIFN.
- 01/13/05 Rigged up pump truck & loaded tubing with 35 bbls of 10#/gal brine water. Nipple down tree. NUBOP. Unset packer. Pulled out of the hole with tubing & packer. Found No-Go in bottom profile nipple but did not find cups. Rubber on the packer was damaged & will have to be redressed. In the morning we'll run back & chase pipe until cups are found. SWIFN.

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DAILY COMPLETION REPORT

01/14/05 Ran in the hole with packer & tubing. Found cups in 24th stand. Set packer @13,428' & re-entry guide @13,438'. Tested packer good to 2000 psi. NDBOP. Nipple up tree. Tested seal good to 8000 psi. Hooked flowline up to test tank. SWIFN.

TUBING DETAIL

436 – jts 2-7/8" L80 6.50# tubing	13,400.55'
1 – On-off tool	1.44'
1 – 2-7/8" x 2.313" X profile nipple	.66'
1 – 5-1/2" x 2-7/8" ASIX 10K (packer)	7.14'
1 – 2-7/8" N80 sub	10.65'
1 – 2-7/8" x 2.313" XN profile nipple	.66'
1 – 2-7/8" re-entry guide	.43'
KB adjustment	<u>17.00'</u>
	13,438.47'

- 01/15/05 Began swabbing. First run fluid was @900' from the surface. Swabbed down to 11,800' from surface. Recovered 79 bbls of brine water with no oil. Had weak gas show on last 3 runs. Shut well in until Monday morning. Will treat well Monday afternoon or Tuesday morning.
- 01/17/05 600 psi on tubing. Bled gas off, no fluid. Had fluid level @4800' from the surface on the first run. Swabbed down to 11,300'. Recovered a total of 43 bbls of water, had weak gas show. SWIFN.
- 01/18/05 400 psi on tubing. Flowed down to test tank. Rigged up & began swabbing to tank. First run – fluid level @8300'. Swabbed down to 11,500', recovered 14 bbls of water. Rigged up Halliburton & treated w/2000 gals of Clay-safe acid & 60 ball sealers. Displaced w/80 bbls of 6% KCL water. Broke down @5000 psi. Average treating pressure @5600 psi @4.5 bpm. Did not see any ball action. ISIP – 4343 psi, 5 min – 3683 psi, 10 min – 2817 psi, 15 min – 2264 psi. Rigged down Halliburton. Hooked well up to test tank. Had 1300 psi on tubing. Flowed down to 0 pressure in 1 minute. Rigged up & began swabbing. Made 15 runs, fluid level down to 5100' from surface. Recovered 71 bbls of fluid, total load is 143 bbls. SWIFN.

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DAILY COMPLETION REPORT

- 01/19/05 50 psi on tubing. Fluid level on first swab run was at 1200' from the surface. Found damaged sandline at 6000'. Stopped swabbing & shut well in. Recovered 37 bbls of acid water. Recovered 108 bbls of 143 bbl load. Will replace sandline in the morning & continue swabbing.
- 01/20/05 700 psi on tubing. First run, fluid level @4000'. Swabbed down to 8000'. Recovered 50 bbls of water. Recovered a total of 158 bbls after acid job, load was 143. Have very little gas while swabbing. SWIFN.
- 01/21/05 550 psi on tubing. Fluid level @5700' on first run. Swabbed down to 11,100', recovered 49 bbls of water. Making a small amount of gas. Rigged down swab. Rigged up pump truck. Loaded tubing with 65 bbls of brine water. Nipped down tree & nipped up BOP. Unset packer & started out of the hole with tubing & packer. SWIFN.
- 01/24/05 200 psi on tubing. Pulled out of the hole with tubing. Laid down packer. Rigged up wireline truck & ran in the hole with 4.65" gauge ring to 13,600'. Picked up cast iron cement retainer & set @13,566'. Rigged down wireline truck. Ran in hole to 6500' with tubing. SWIFN.
- 01/25/05 0 psi on tubing & casing. Finished running in the hole with tubing & stinger. Rigged up Halliburton to squeeze lower perms (13,584-93') with 75 sx of "H" cement. Broke circulation & loaded hole with 10# brine water. Stung into retainer. Pressured up on casing to 1000 psi & held. Bled pressure off & opened casing valve to the pit. Bullheaded brine water in tubing into formation at rate of 2 bpm @3800 psi. Back side stayed dead. Pressure increased to 4500 psi with cement in formation. Stopped pumping, had 4000 psi on tubing. Pulled out of retainer. Reversed out. Had ±1 bbl of cement to pit. Rigged down Halliburton & started out of the hole with tubing. Shut down due to high winds.
- 01/26/05 Tubing pressure – 0 psi. Finished pulling out of the hole with tubing & stinger. Picked up packer & ran back in hole. Set packer @13,426'. SWIFN.
- 01/27/05 Tubing pressure – 0 psi. Rigged up pump truck & tested packer to 2000 psi & held. NDBOP. Nipped up tree, tested good to 8000 psi on seal. Began swabbing. Swabbed down to 11,500' & pulled from 12,300' on last run. Had a very small amount of gas on last run. Recovered a total of 78 bbls of 10#/gal brine water. SWIFN.

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DAILY COMPLETION REPORT

- 01/28/05 Tubing pressure – 0 psi. Fluid level @7500' on first run. Swabbed down to 12,000' from surface. Recovered 26 bbl of salt water. Rigged up Halliburton & treated with 1500 gallons of Claysafe "H" acid & 50 ball sealers. Formation broke down @4200 psi. Treated @5150 psi & rate of 3.6 bpm. ISIP – 4650 psi, 5 min – 4279 psi, 10 min – 3864 psi & 15 min – 3259 psi. Flowed down to test tank. Rigged up & began swabbing to test tank. Swabbed down to 5700' from surface. Recovered 70 bbls of KCL water with no gas. SWIFN. Load from acid job is 125 bbls.
- 01/29/05 Tubing pressure – 0 psi. Fluid level @1900' from surface. Continued swabbing. Swabbed down to 8900' from the surface. Recovered a total of 85 bbls for the day. Load from the acid job was 125 bbls. Swabbed back a total of 155 bbls after acid treatment. On last 5 runs swabbing back salt water with a weak gas blow. Shut well in until Monday a.m. Will check pressure & make a swab run first thing & shut down to change out tubing line on rig.
- 01/31/05 850 psi on tubing. Fluid level @4700'. Changed out tubing line on pulling unit. Loaded tubing with 10#/gal brine water. Nipped down tree. NUBOP. Unset packer. Laid down 32 joints. SWIFN.
- 02/01/05 0 psi on tubing. Pulled out of the hole with tubing. Laid down packer. Rigged up wireline truck. Ran in the hole with CIBP & set @13,470'. Dumped 20' of cement on top of plug. Rigged down wireline truck. SWIFN.
- 02/02/05 Rigged up wireline truck. Ran in the hole with casing gun & perforated Atoka @12,551-62', 4 spf. Rigged down wireline truck. Ran back in the hole with tubing & packer. Set packer @12,476'. Rigged up pump truck & tested packer good to 2000 psi. NDBOP. Nipple up tree. Tested seal, good to 8000 psi. SWIFN.

TUBING DETAIL

405 – jts 2-7/8" L80 6.50# tubing
1 – On/off tool
1 – 2.313" X nipple
1 – Arrowset 10K packer @12,476'
1 – 2-7/8" x 10' sub
1 – 2.313" XN nipple
1 – wireline re-entry guide @12,487'

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DAILY COMPLETION REPORT

- 021/03/05 Tubing pressure – 0 psi. Fluid level @1300' from the surface. Swabbed down to 11,900'. Recovered 64 bbls of brine water, had a slight gas show. SWIFN. Will acidize in the morning.
- 02/04/05 Tubing pressure – 0 psi. Fluid level @11,500' from surface. Rigged up Halliburton & treated with 1500 gals of Claysafe "H" acid & 50 ball sealers. Formation broke down @5060 psi. Treating rate & pressure - 4 bbl/min @4200 psi. Displaced with 74 bbls of 6% KCL water. ISIP – 3068, 5 min – 2932 psi, 10 min – 2848 psi & 15 min – 2781 psi. Turned to test tank & bled pressure off. Began swabbing. Swabbed down to 10,700'. Recovered 83 bbls of water, no gas. Load is 110 bbls. SWIFN.
- 02/07/05 Tubing pressure – 0 psi. Fluid level @7500' from surface. Rigged up pump truck & loaded tubing with 40 bbls of brine water. Nippled down tree. NUBOP. Unset packer. Laid down 85 joints of tubing. Stood back 320 joints & laid down packer. SWIFN.
- 02/08/05 Rigged up wireline truck. Ran in hole & set CIBP @12,500'. Dumped 20' cement on top of plug. Ran in hole with casing gun & perforated (9978-84'), (10,129-35') & (10,173-78') 4 spf. Rigged down wireline truck. Picked up packer & ran in the hole with tubing to 10,187'. SWIFN. Will acidize in the morning.
- 02/09/05 Tubing & casing on slight vacuum. Rigged up Halliburton. Broke circulation with brine water. Spotted 300 gals of 15% NeFe HCL acid across perforations. Moved packer to 9809' & set. Pressured up to 500 psi on casing & packer. Treated with 3200 gals of 15% NeFe HCL & 120 ball sealers. Average rate & pressure was 4.5 bpm @6600 psi. Had good ball action. Balled out with 10 bbls of flush left to go. Shut down & surged off balls. Continued flush. ISIP – 4953 psi, 5 min – 4640 psi, 10 min – 4495 psi & 15 min – 4398 psi. Flowed down to test tank. Swabbed down to 4000' from the surface. Recovered 87 bbls of fluid. SWIFN.
- 02/10/05 Tubing pressure – 300 psi. Fluid level @2500' from the surface. Had a trace of oil on the first run. Continued swabbing. From 8:30 a.m. to 3:30 p.m. swabbed back 59 bbls of fluid, 10% oil cut on last few runs. Fluid level @packer (9800'). From 3:30 p.m. to 6:00 p.m. had 6 bbls of fluid entry, 15% oil cut. Had some gas. Recovered 152 bbls of 207 bbl load. SWIFN.

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DAILY COMPLETION REPORT

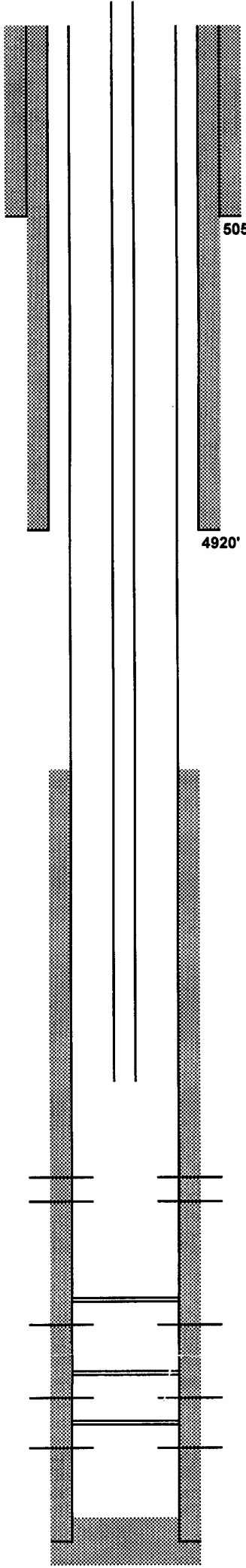
02/11/05 Had 0 psi on tubing. Fluid level at 7700' from the surface. Had 600' of free oil on first run. Pulled from packer on 2nd run, oil cut was 15%. Shut down & waited 2 hours. Made swab run. Fluid at 8900' from the surface, had 1000' of fluid. Shut down & waited 2 hours. Made another swab run. Fluid level at 8900', oil cut 15%. Shut well in. Recovered 8 bbls of fluid.

02/14/05 Tubing pressure – 70 psi. Fluid level at 6500' from the surface, 90% oil. NDBOP. Rigged down pulling unit. Left well shut in.

TUBING DETAIL

318 – jts 2-7/8" L80 6.50#/ft tubing
1 – 5-1/2" x 2-7/8" X2.313" X nipple & on/off tool
1 – 5-1/2" x 2-7/8" AS-1X 10K pkr @9809'
1 – 2-7/8" N80 Pup jt (10')
1 – 2-7/8" x 2.313 XN nipple
1 – 2-7/8" wireline entry guide @9819'

PATTERSON PETROLEUM LP



RKB 4162'
GL 4143'

Lease & Well No.: Alpha"7" No. 2
Well Category:
Area: New Mexico
Subarea: Lovington
Legal Description: API #30-025-36914
D, 695' FNL, 330' FWL, Sec 7, T-15-S, R-34-E
Lea County, NM

Spudded: 10/19/2004
TD: 12/15/2004
Completed: 02/14/2005

17 1/2" hole
13 3/8" 48# J55
set @ 489'
600 sx cement

Stimulation: Morrow - 2000 gals of ClaySafe H + 60 balls
Squeeze - (13,584 - 93') w/ 75 sx "H"
Morrow (13,528 - 36') - 1500 gals of ClaySafe
H + 50 ball sealers
CIBP @ 13,470' w/ 20' cement
Atoka - 1500 gals of ClaySafe H + 50 balls
CIBP @ 12,500' w/ 20' cement
WC - 3500 gals of 15% NeFe HCL acid +
120 ball sealers

12 1/4" hole
9 5/8" 40# J-55 & N80
set @ 4794'
1500 sx cement.
TOC = 550' from surface

5 1/2" TOC = 7,150' (CBL)

Production Tbg

318 jts 2 7/8" 6.5# N-80 tbg
2 7/8" X 2.313" X Nipple w/ On-Off tool
2 7/8" X 5 1/2" Arrowset IX PKR @ 9809'
2 7/8" X 10' N80 sub w/ 2.313 XN nipple
2 7/8" wireline entry guide

Wolfcamp Perfs

9978 - 84' 4spf
10,129 - 35' 4spf
10,173 - 78' 4spf

Atoka Perfs

12,551 - 62' 4 spf

Morrow Perfs

13,528-36' 4 spf
13,584-93' 4 spf

5 1/2" 17# P110 @ 14,105'
Cmt'd w/ 1400 sks

PBTD: 13,982'
TD: 14,108'

