Oil Cons.
N.M. DIV-Dist. 2
1301 W. Grand Avenue
Artesia, NM 88210

Form 3160-4
(April 2004)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No. **NMNM-109754**

1a. Type of Well ☐ Oil Well ☑ Gas Well ☐ Dry ☐ Other
b. Type of Completion: ☐ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr, .
Other

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No. **33048**

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

8. Lease Name and Well No. **MILLER FEDERAL NO. 2**

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

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

9. AFI Well No. **30-015-33060**

4. Location of Well *(Report location clearly and in accordance with Federal requirements)**

At surface **840' FNL & 1830 FWL**

At top prod. interval reported below **1011.2' FNL & 2024.1' FWL**

At total depth **1009.8 FNL & 2026.6 FWL**

10. Field and Pool, or Exploratory **BURTON FLAT - MORROW**

11. Sec., T., R., M., on Block and Survey or Area **SEC 3,T21S,R27E LOT6**

12. County or Parish **EDDY**

13. State **NM**

14. Date Spudded **01/04/2004**

15. Date T.D. Reached **02/25/2004**

16. Date Completed **05/18/2004** ☐ D & A ☑ Ready to Prod.

17. Elevations (DF, RKB, RT, GL)* **3192' GR**

18. Total Depth: MD **11,570'** TVD **11,550.8'**

19. Plug Back T.D.: MD **11,534'** TVD **11,514.8'**

20. Depth Bridge Plug Set: MD TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
CNL/LD/LL/GR

22. Was well cored? ☐ No ☑ Yes (Submit analysis)
Was DST run? ☑ No ☐ Yes (Submit report)
Directional Survey? ☐ No ☑ Yes (Submit copy)

23. Casing and Liner Record *(Report all strings set in well)*

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17-1/2"	13-3/8"	48	0	630.8'		500 "C"	156	SURFACE	0
12-1/4"	9-5/8"	40	0	2804'		1200 "C"	408	SURFACE	0
8-3/4"	5-1/2"	17	0	11,569'	8030'	2300 "H"	792	3050'	0

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2-7/8"	11,185'	11,165'						

25. Producing Intervals / 26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) MORROW	11,262'	11,336'	11,262-84'	.34	88	OPEN
B)			11,332-36'	.34	16	OPEN
C)						
D)						

27. Acid, Fracture, Treatment, Cement Squeeze, etc.

Depth Interval	Amount and Type of Material
11,262 - 11,336'	3000 GALS CLAYSAFE H ACID + 97,000 SCF N2
	35,633 GALS MEDALLION 3500 BINARY FOAM + 41,250 LBS 20/40 INTERPROP

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
05/18/2004	06/17/2004	4		0	128	0		0.619	FLOWING
Choke Size	**Tbg. Press. Flwg. SI**	**Csg. Press.**	**24 Hr. Rate →**	**Oil BBL**	**Gas MCF**	**Water BBL**	**Gas/Oil Ratio**	**Well Status**	
14/64"	1740 SI 2200			0	1012	0		FLOWING	

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	**Tbg. Press. Flwg. SI**	**Csg. Press.**	**24 Hr. Rate →**	**Oil BBL**	**Gas MCF**	**Water BBL**	**Gas/Oil Ratio**	**Well Status**	

(See instructions and spaces for additional data on page 2)

RECEIVED
JUL 2004
OCD - ARTESIA

ACCEPTED FOR RECORD
JUL 12 2004
LES BABYAK
PETROLEUM ENGINEER

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status

29. Disposition of Gas *(Sold, used for fuel, vented, etc.)*

SOLD

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth
1ST BONE SPRINGS	6408'	6482'	PROBABLE OIL	DELAWARE	2860'
				BONE SPRINGS LIME	5138'
				BONE SPRINGS SAND	6406'
STRAWN LIME	10,216'	10,228'	PROBABLE OIL OR SW	WOLFCAMP	8990'
				STRAWN	10,132'
				ATOKA	10,440'
STRAWN LIME	10,292'	10,302'	PROBABLE OIL OR SW	MORROW CLASTICS	11,192'
MORROW SAND	11,240'	11,256' TVD	GAS PRODUCTIVE		

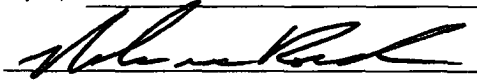
32. Additional remarks (include plugging procedure):

33. Indicate which itmes have been attached by placing a check in the appropriate boxes:

☑ Electrical/Mechanical Logs (1 full set req'd.) ☐ Geologic Report ☐ DST Report ☑ Directional Survey
☐ Sundry Notice for plugging and cement verification ☑ Core Analysis ☐ Other:

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)*

Name *(please print)* NOLAN VON ROEDER Title ENGINEER

Signature  Date 07/07/2004

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