Form 3160-4
(September 2001)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2004

# WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.
NM-96835

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.

2. Name of Operator
Samson Resources Company ATTN: Kathy Staton

8. Lease Name and Well No.
Lightning 24 Federal Com #2

3. Address
Two West Second Street, Tulsa, OK 74103

3a. Phone No. *(include area code)*
(918) 591-1971

9. API Well No.
30-015-33578 S1

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

At surface 1980' FSL & 1980' FEL

At top prod. interval reported below same

At total depth same

RECEIVED
AUG 2 4 2005
OCD-ARTESIA

10. Field and Pool, or Exploratory
Undesignated Morrow

11. Sec., T., R., M., on Block and Survey or Area
24-25S-26E

12. County or Parish
Eddy

13. State
NM

14. Date Spudded
2/27/05

15. Date T.D. Reached
4/9/05

16. Date Completed
☐ D&A ☑ Ready to Prod.
6/28/05

17. Elevations (DF, RKB, RT, GL)*
3257' KB; 3256' DF; 3231' GL

18. Total Depth: MD 12,060'
TVD n/a

19. Plug Back T.D.: MD 11,816
TVD n/a

20. Depth Bridge Plug Set: MD 11840' w/ 24' cmt
TVD n/a

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
DSN/SDL; DLL/MGRD

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 |
|---|---|---|---|---|---|---|---|---|---|
| 9.625" | J55 | 36.00# | 0' | 470' | | 260 | | surface | |
| 7.00" | N80 | 26.00# | 0' | 10030' | | 362 | | surface | |
| 4.500" | HCP110 | 11.60# | 0' | 12060' | | 200 | | 5884' | |

24. Tubing Record

| Size | Depth Set (MD) | Packer Depth (MD) | Size | Depth Set (MD) | Packer Depth (MD) | Size | Depth Set (MD) | Packer Depth (MD) |
|---|---|---|---|---|---|---|---|---|
| 2.375" | 11425' | 11425' | | | | | | |

25. Producing Intervals

| Formation | TOP | Bottom |
|---|---|---|
| A) Morrow | 11432' | 12060' |
| B) | | |
| C) | | |
| D) | | |

26. Perforation Record

| Perforated Interval | Size | No. Holes | Perf. Status |
|---|---|---|---|
| 11483'-11720' | | 4 spf | active |
| | | | |
| | | | |
| | | | |

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

| Depth Interval | Amount and Type of Material |
|---|---|
| 11873'-11934' | Acdz w/ 1090 gals 7.5% Claysafe H acid & 70,000 cfm N2 |
| 11483'-11720' | Frac w/ 75,500# prop, 203 tons CO2 |
| | |

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 |
|---|---|---|---|---|---|---|---|---|---|
| 6/28/05 | 7/21/05 | 24 | ☐ | 0 | 904 | 10 | | | flowing |
| **Choke Size** | **Tbg. Press. Flgw. SI** | **Csg. Press** | **24 Hr. Rate** | **Oil BBL** | **Gas MCF** | **Water BBL** | **Gas: Oil Ratio** | **Well Status** | |
| 24/64" | 730 | 160 | ☐ | | | | | active gas well | |

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** | |
| | | | ☐ | | | | | | |

ACCEPTED FOR RECORD
AUG 2 3 2005
acs
ALEXIS C. SWOBODA
PETROLEUM ENGINEER

*(See instructions and spaces for additional data on next page)*

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** | **Thg 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.)

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.

| Formation | Top | Bottom | Descriptions, Contents, etc. |
|---|---|---|---|
| | | | |

31. Formation (Log) Markers

| Name | Top Meas. Depth |
|---|---|
| Bone Springs | 6364' |
| Wolfcamp | 8610' |
| Penn Marker | 10248' |
| Strawn | 10592' |
| Atoka | 10936' |
| Morrow | 11432' |

32. Additional remarks (include plugging procedure):

33. Circle enclosed attachments:

1 Electrical/Mechanical Logs (1 full set req'd.) 2 Geologic Report 3 DST Report 4 Directional Survey
5 Sundry Notice for plugging and cement verification 6 Core Analysis 7 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)* J.L. Farrell, III Title District Engineer

Signature ______ Date 8/12/05

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.