

UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

Form approved.  
Budget Bureau No. 1004-0137  
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.

NM 59035

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Red Lake Federal

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Red Lake Q-G-SA

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA

S.10 T17S, R28E

12. COUNTY OR PARISH

13. STATE

1a. TYPE OF WELL:

OIL WELL ☒ GAS WELL ☐ DRY ☐ Other ☐

b. TYPE OF COMPLETION:

NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. REVR. ☐ Other ☐

2. NAME OF OPERATOR

Armstrong Energy Corporation

RECEIVED

3. ADDRESS OF OPERATOR

P.O. Box 1973, Roswell, New Mexico 88201

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\*

At surface 1980' FSL and 1650' FWL of S.10

At top prod. interval reported below

At total depth SAME

C. C. D.  
ARTEJIA, OFFICE

14. PERMIT NO.

DATE ISSUED\*

15. DATE SPUDDED

08-26-89

16. DATE T.D. REACHED

04-25-90

17. DATE COMPL. (Ready to prod.)

06-01-90

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\*

GR 3536

19. ELEV. CASINGHEAD

3536

20. TOTAL DEPTH, MD & TVD

2117'

21. PLUG, BACK T.D., MD & TVD

2112'

22. IF MULTIPLE COMPL., HOW MANY\*

23. INTERVALS DRILLED BY

ROTARY TOOLS

CABLE TOOLS

X

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\*

1428' - 2062' Queen, Grayburg, San Andres

25. WAS DIRECTIONAL SURVEY MADE

No

26. TYPE ELECTRIC AND OTHER LOGS RUN

Comp. Neutron, Dual Laterolog, CGL-GR

27. WAS WELL CORRED

No

28. CASING RECORD (Report all strings set in well)

| CASING SIZE | WEIGHT, LB./FT. | DEPTH SET (MD) | HOLE SIZE | CEMENTING RECORD                                             | AMOUNT PULLED |
|-------------|-----------------|----------------|-----------|--------------------------------------------------------------|---------------|
| 8 5/8"      | 23#             | 349'           | 12 1/4"   | 225 sx Prem. Plus, 2% Cal. Chloride, Cir                     |               |
| 7"          | 26-29#          | 1600'          | 8"        | Mudded                                                       | 1600'         |
| 4 1/2"      | 10.5#           | 2112'          | 6 1/2"    | 420 sx PP/POZ, 2% Gel, 5# Salt, 5/10# Halad 322 - Circulated |               |

29. LINER RECORD

| SIZE | TOP (MD) | BOTTOM (MD) | SACKS CEMENT* | SCREEN (MD) | SIZE   | DEPTH SET (MD) | PACKER SET (MD) |
|------|----------|-------------|---------------|-------------|--------|----------------|-----------------|
|      |          |             |               |             | 2 1/2" | 1928'          |                 |

31. PERFORATION RECORD (Interval, size and number)

1792, 93, 94, 99, 1800; 1980, 82, 83, 84, 90;  
2062, 62 1/2; 1479-86 at 2 SPF; 1499, 1500;  
1428-46 at 2 SPF.

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

| DEPTH INTERVAL (MD) | AMOUNT AND KIND OF MATERIAL USED |
|---------------------|----------------------------------|
| 1792-2062 1/2       | 12/20 Sand                       |
| 1479-86             | Frac 11420 gal oil-16900#        |
|                     | Frac 24000 gal diesel, nitroge   |
|                     | 44,500# 20/40 sand               |
| 1428-46             | Frac 48000 gal diesel, nitroge   |

33.\* PRODUCTION

96800# 20/40 sand

DATE FIRST PRODUCTION

06-01-90

PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)

Pumping

WELL STATUS (Producing or shut-in)

Producing

DATE OF TEST

HOURS TESTED

CHOKER SIZE

PROD'N. FOR TEST PERIOD

OIL—BBL.

GAS—MCF.

WATER—BBL.

GAS-OIL RATIO

6-1 to 6-2-90

24

2"

14

load oil

190

0

13571

FLOW, TUBING PRESS.

CASING PRESSURE

CALCULATED 24-HOUR RATE

OIL—BBL.

GAS—MCF.

WATER—BBL.

OIL GRAVITY-API (CORR.)

20#

20#

36

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

Sold

TEST WITNESSED BY

35. LIST OF ATTACHMENTS

Logs

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

Thos. K. Vung

TITLE

Production Supervisor

DATE

06-26-90

\*(See Instructions and Spaces for Additional Data on Reverse Side)

37. SUMMARY OF POROUS ZONES: (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):

38. GEOLOGIC MARKERS

| FORMATION     | TOP  | BOTTOM  | DESCRIPTION, CONTENTS, ETC. | NAME<br>TOPS  | TOP         |                     |
|---------------|------|---------|-----------------------------|---------------|-------------|---------------------|
|               |      |         |                             |               | MEAS. DEPTH | TRUE<br>VERT. DEPTH |
| 7-Rivers      | 654  | 1182    | Dolomite, Lime, Anhydrite   | 7-Rivers      | 654         | +2883               |
| Queen         | 1182 | 1420    | Sand, Lime, Anhydrite       | Queen         | 1182        | +2355               |
| Upper Penrose | 1420 | 1476    | Sand, Anhydrite             | Upper Penrose | 1420        | +2117               |
| Lower Penrose | 1476 | 1632    | Sand, Lime, Anhydrite       | Lower Penrose | 1476        | +2060               |
| Grayburg      | 1632 | 1994    | Sand, Lime, Anhydrite       | Grayburg      | 1632        | +1905               |
| San Andres    | 1994 | TD 2117 | Dolomite, Shale, Sand       | San Andres    | 1994        | +1544               |