

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE*

(See other instructions on reverse side)

FOR APPROVED
OMB NO. 1004-0137
Expires: December 31, 1991

5. LEASE DESIGNATION AND SERIAL NO.
NM-16471

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL ☐ GAS ☐ DRY ☐ Other COALBED METHANE

b. TYPE OF COMPLETION:

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

2. NAME OF OPERATOR

J.K. EDWARDS ASSOCIATES, INC.

3. ADDRESS AND TELEPHONE NO. 303/298-1400

1331-17TH STREET, SUITE 710, DENVER, COLORADO 80202

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

At surface 810' FSL, 1670' FWL

At top prod. interval reported below

At total depth

14. PERMIT NO.

DATE ISSUED

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
N/A

7. UNIT AGREEMENT NAME
N/A

8. FARM OR LEASE NAME, WELL NO.
COWSAROUND 2-14

9. API WELL NO. 28285
30-045- ?

10. FIELD AND POOL OR WILDCAT

BASIN (FRUITLAND COAL)

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

SECTION 2
T26N-R12W

12. COUNTY OR PARISH
SAN JUAN

13. STATE
NM

15. DATE SPUDDED
10/22/90

16. DATE T.D. REACHED
10/24/90

17. DATE COMPL. (Ready to prod.)
5/10/93

18. ELEVATIONS (OF. RKB, RT. GR. ETC.)*
5950'

19. ELEV. CASINGHEAD
5952'

20. TOTAL DEPTH, MD & TVD
1300'

21. PLUG BACK T.D., MD & TVD
1278'

22. IF MULTIPLE COMPL., HOW MANY*

23. INTERVALS DRILLED BY

ROTARY TOOLS
10'-1300'

CABLE TOOLS

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

BASIN FRUITLAND COAL 1210'-1214'

25. WAS DIRECTIONAL SURVEY MADE

YES

26. TYPE ELECTRIC AND OTHER LOGS RUN

DUAL INDUCTION, SPECTRAL DENSITY NEUTRON, GAMMA RAY COLLAR

27. WAS WELL CORRO

NO

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

| CASING SIZE/GRADE | WEIGHT, LB./FT. | DEPTH SET (MD) | HOLE SIZE | TOP OF CEMENT, CEMENTING RECORD | AMOUNT PULLED |
|-------------------|-----------------|----------------|-----------|---------------------------------|------------------|
| 7" J-55 | 23# | 127' | 8-3/4" | 50 SK "B" 2% CACL | 8 MAY 12 AM 1993 |
| 4 1/2" J-55 | 9.5# | 1278' | 6-1/4" | 90 SK 65/35 POZ 128' GET | RECEIVED |
| | | | | 40 SK "B" | BLM |

29. LINER RECORD

| SIZE | TOP (MD) | BOTTOM (MD) | BACKS CEMENT* | SCREEN (MD) | SIZE | DEPTH SET (MD) | PACKER SET (MD) |
|------|----------|-------------|---------------|-------------|--------|----------------|-----------------|
| | | | | | 1 1/2" | 1188' | N/A |

31. PREPARATION RECORD (Interval, size and number)

1210'-1214'
2 JSPF
.38" HOLES
8 HOLES

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

| DEPTH INTERVAL (MD) | AMOUNT AND KIND OF MATERIAL USED |
|---------------------|----------------------------------|
| 1210'-1214' | SEE ATTACHED DAILY REPORT |

33. PRODUCTION

DATE FIRST PRODUCTION
WELL IS CAPABLE OF COMMERCIAL PRODUCTION

WELL STATUS (Producing or Shut-in)

SHUTIN GAS WELL

| DATE OF TEST | HOURS TESTED | CHOKE SIZE | PROD'N. FOR TEST PERIOD | WATER—BSL | GAS—OIL RATIO |
|---------------------|-----------------|-------------------------|-------------------------|-----------|-------------------------|
| 290 | 296 | | | | |
| FLOW, TUBING PRESS. | CASING PRESSURE | CALCULATED 24-HOUR RATE | OIL—BSL | GAS—MCF | OIL GRAVITY-API (CORR.) |

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

WAITING ON FIRST DELIVERY

TEST WITNESSED BY

35. LIST OF ATTACHMENTS

DAILY REPORT FOR PERF AND FRAC

OIL CON. DIV.
DIST. 3

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

SIGNED

TITLE

J. KEITH EDWARDS
PRESIDENT

ACCEPTED FOR RECORD
DATE 5/10/93

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

Title 18 U.S.C. Section 1001, makes 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.

NMOCD

FARMINGTON DISTRICT OFFICE

BY

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):

| FORMATION | TOP | BOTTOM | DESCRIPTION, CONTENTS, ETC. | NAME | TOP | |
|------------|-------|--------|-----------------------------|------|-------------|------------------|
| | | | | | MEAS. DEPTH | TRUE VERT. DEPTH |
| KIRTLAND | 285' | 950' | SHALE & SANDSTONE | | | |
| FRUITLAND | 950' | 1202' | COAL, SILT & SANDSTONE | | | |
| BASAL COAL | 1202' | 1225' | COAL | | | |
| PC | 1225' | | SANDSTONE | | | |

38. GEOLOGIC MARKERS

| NAME | TOP | |
|------|-------------|------------------|
| | MEAS. DEPTH | TRUE VERT. DEPTH |
| | | |

Cowsaround 2#14

Rig up Petro Wireline to perforate at 1210-1214 with 2 JSPF. Total of 8 .38 " holes. Rig down perforators and rig up Western Company to refrac. Had gas blow during perforating. Frac at 20-25 BPM using 70Q foam and 20# gel. Pump as follows:

| | | | |
|-------------|----------|----|-------|
| 14,000 gals | 70Q foam | | |
| 5,000 gals | 70Q foam | 1# | 40/70 |
| 5,000 gals | 70Q foam | 1# | 20/40 |
| 7,000 gals | 70Q foam | 2# | 20/40 |

Pressured out at 3000 psi.

AIR 25 BPM, ATP 2400, MTP 3000. ISDP 3000, 15 minute 2650. Old perforations did not take fluid. Excessive friction, but Nolte positive throughout.

Estimated daily cost: \$14,532

Estimated total cost: \$39,498