

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☐ Gas Well ☒ Other **COALBED METHANE**

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 (Footage, Sec., T., R., M., or Survey Description)

**1160' FNL, 1480' FEL
SECTION 22, T26N-R12W**

5. Lease Designation and Serial No.

NM-12028

6. If Indian, Allottee or Tribe Name

N/A

7. If Unit or CA, Agreement Designation

NA/

8. Well Name and No.

COWSAROUND 22-2

9. API Well No.

30-045-27948

10. Field and Pool, or Exploratory Area

BASIN (FRUITLAND COAL)

11. County or Parish, State

SAN JUAN, NM

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent
☒ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☐ Other **FRACS**

- ☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

FIRST FRAC: (SEE ATTACHED TREATMENT REPORT)

FRAC WITH 70Q FOAM AT 20 BPM AS FOLLOWS:

**10,000 GALS. 70Q FOAM
4,000 GALS. 70Q FOAM 1/2# 20/40
SCREENOUT WHEN SAND HIT PERFORATIONS**

SECOND FRAC: (SEE ATTACHED DAILY REPORT)

**1500 GALS. 20# LINEAR GEL
2500 GALS. 70% N2 FOAM
10,500# 40/70 SAND 1/2-1 PPG
29,080# 20/40 SAND 1-3 PPG 60-65% N2 FOAM
6,900# 12/20 SAND 3 PPG 60% N2 FOAM
ISIP=1970#, 5 MIN=1560#, 10 MIN=1530#, 15 MIN=1480#
AIR=30 BPM
TOTAL FLUID=316 BBLs, TOTAL N2=388,106 SOF**

14. I hereby certify that the foregoing is true and correct

Signed

Title

**J. KEITH EDWARDS
PRESIDENT**

Date **MAY 20, 1993**

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

ACCEPTED FOR RECORD

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.

*See instruction on Reverse Side

NMOCO

BY

FARMINGTON DISTRICT OFFICE

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations, and reports of such operations when completed, as indicated, on Federal and Indian lands pursuant to applicable Federal law and regulations, and, if approved or accepted by any State, on all lands in such State, pursuant to applicable State law and regulations. Any necessary special in-

structions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

SPECIFIC INSTRUCTIONS

Item 4—If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 13—Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by local Federal and/or State offices. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive

zones, or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to top of any left in the hole; method of closing top of well; and date well site conditioned for final inspection looking to approval of the abandonment.

NOTICE

The Privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et. seq., 351 et. seq., 25 U.S.C. et. seq.; 43 CFR 3160.

PRINCIPAL PURPOSE — The information is to be used to evaluate, when appropriate, approve applications, and report completion of secondary well operations, on a Federal or Indian lease.

ROUTINE USES:

- (1) Evaluate the equipment and procedures used during the proposed or completed subsequent well operations.
- (2) Request and grant approval to perform those actions covered by 43 CFR 3162.3-2(2).
- (3) Analyze future applications to drill or modify operations in light of data obtained and methods used.
- (4)(5) Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions.

EFFECT OF NOT PROVIDING INFORMATION — Filing of this notice and report and disclosure of the information is mandatory once an oil or gas well is drilled.

The Paperwork Reduction Act of 1980 (44 U.S.C. 3501, et. seq.) requires us to inform you that:

This information is being collected in order to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

This information will be used to report subsequent operations once work is completed and when requested, to obtain approval for subsequent operations not previously authorized.

Response to this request is mandatory for the specific types of activities specified in 43 CFR Part 3160.

BURDEN HOURS STATEMENT

Public reporting burden for this form is estimated to average 25 minutes per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management, (Alternate) Bureau Clearance Officer, (WO-771), 18 and C Streets, N.W., Washington, D.C. 20240, and the Office of Management and Budget, Paperwork Reduction Project (1004-0135), Washington, D.C. 20503.

15+ FRAC
#22-2

ACTUAL TREATMENT

TREATING CONDUCTOR: 4.5" 10.5# CASING

INJECTION RATE: 20 BPM

ACTUAL SURFACE TREATING PRESSURE: 1,550 psi (average)

FLUID VOLUMES:

TREATING FLUID VOLUME: 15,600 GALLONS 70Q FOAM

FLUSH VOLUME: 00 GALLONS 70Q FOAM

PROPPANT:

4,300 POUNDS 20/40 ARIZONA

ADDITIVES PER 1000 GALLONS:

TREATING FLUID:

20.00	LB	J-20	GUAR GELLANT AGENT
5.00	GL	FRAC-FOAM 2	FOAMING AGENT
1.00	GL	COAL SURF	SURFACTANT
1.00	LB	B-11	GEL BREAKER
2.00	LB	P-4	PH CONTROL
0.38	LB	FRAC-CIDE 20	BATERIACIDE

FLUSH FLUID:

20.00	LB	J-4	LIQUID GUAR GELLANT
1.00	GL	COAL SURF	SURFACTANT
0.50	LB	B-11	GEL BREAKER
2.00	LB	P-4	PH CONTROL
0.38	LB	FRAC-CIDE 20	BATERIACIDE

WALSH ENGINEERING & PRODUCTION

WORKOVER AND COMPLETION REPORT

2nd FRAC

Operator: EDWARDS & ASSOC

Well Name: Garrett 22

Date: 5/17/93

Report No: 3

Field: Basin Fr Coal

County: S.J.

State: N.M.

Contractor:

Supervisor: Paul Thompson

Work Summary:

R.D. TRIP 1 & MOVE TO GARRETT 22. R.D. PATTI WIRELINE & PERFORATE
10 (0.39") HOLE FROM 1245-95 AND 14 (0.39") HOLE FROM 1186-1192. TOTAL 26 HOLE
DEPTHS REFER TO OPEN HOLE WAS. R.D. PATTI WIRELINE & R.D. WIRELINE TO FIRM
FIRM WELL WITH 1500 GAL OF 20" HOLE 62 FOLLOWED BY 2500 GAL OF 73 3/4" HOLE
FOLLOWED BY 10,500 GAL OF 10 1/2" AT 1/2" PPG. DROPPED FROM SURFACE TO 62' DURING 1 PPG
STAGE. PUMPED 27,000 GAL OF 20/40 SAND AT 1-3 PPG IN 62-65' IN 62' HOLE. DROPPED
FROM SURFACE TO 62' AT 1 PPG. 20/40 SAND. FINISHED W/ 6700 GAL OF 12/20 SAND AT 3 PPG
IN 62' HOLE. PUMPED TO TOP PERF W/ NO. ALL FIRM GRATE 20' HOLE
HOLE 62' HOLE. PATTI WIRELINE, 2nd TRIP, COAL SURFACE, FORMATION & 500' HOLE. R.D. TRIP
WIRELINE 2nd TRIP 5/17/93. 2511-1920 5 min - 1560 10 min - 1570 15 min - 1580
AIR - 30 GPM. AIR - 30 GPM. AT 2300. AIR - 2370. PRESSURE STARTED DROPPING.
WHEN 1 1/2" 20/40 WAS ON FORMATION, TOTAL FIRM 214 BBL, TOTAL HOLE 208,104.50F
R.D. WIRELINE & 20/40 WEL TO PIT THROUGH 1/2" COAL NIPPLE.

Daily Costs:

Road & Location
Rig Cost
Equipment Rental
Logging & Perforating
Stimulation
Testing
Cementing
Completion Fluids 4
Contract Services
Miscellaneous Supplies
Engr. & Supervision 4 + 46
Trucking
Other

1019
16,373
190
198

Tubulars
Wellhead Equipment
Subsurface Equipment
Artificial Lift Equipment
Sucker Rods
Tanks
Pressure Vessels
Flowlines
Installation/Labor
Fittings, Valves, Etc...
Meters, Lact, Etc...
Electrical Equipment
Total Daily Cost
Cumulative Cost

18,290
34,054

Well Record				Run in well			
Pulled from well				Equipment			
1"	7/8"	3/4"	5/8"	Sucker Rod Count			
Hole tube				Pump			
API Pump size				Tubing Bottom			
Depth				Gas or Mud Anchor			
Length				Perforated Nipple			
Length				Sealing Nipple			
Size				Tubing Count			
Length				Tubing Size			
Tubing Size				Tubing Count			
Type				Anchor Clutches			
Type				How Set			
Type				Type			