

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-12028

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

7. UNIT AGREEMENT NAME
N/A

8. FARM OR LEASE NAME, WELL NO.
COWSAROUND 22-24

9. API WELL NO.
30-045-27948

10. FIELD AND POOL, OR CATE
BASIN (FRUITLAND COAL)

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA
SECTION 22
T26N-R12W

12. COUNTY OR PARISH
SAN JUAN

13. STATE
NM

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

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

b. TYPE OF COMPLETION:
NEW ☒ WORK OVER ☐ REPAIR ☐ PLUG BACK ☐ DIFF. REPAIR ☐ 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 BLM Form 3160-2)
At surface 1160' FNL, 1480' FEL
At top prod. interval reported below
At total depth

14. PERMIT NO. OIL CON. DIV. DIST. 3

15. DATE SPUDDED 10/17/90 16. DATE T.D. REACHED 10/19/90 17. DATE COMPL. (Ready to prod.) 5/17/93 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 6166' 19. ELEV. CASINGHEAD 6168'

20. TOTAL DEPTH, MD & TVD 1430' 21. PLUG. BACK T.D., MD & TVD 1405' 22. IF MULTIPLE COMPL., HOW MANY* 23. INTERVALS DRILLED BY ROTARY TOOLS 10'-1430' CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
BASIN FRUITLAND COAL 1280'-1295'

25. WAS DIRECTIONAL SURVEY MADE
YES

26. TYPE ELECTRIC AND OTHER LOGS RUN
DUAL SPACED NEUTRON II, DUAL INDUCTION SHORT GUARD

27. WAS WELL CORRED
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#	123'	8-3/4"	50 SK "B" 2% CACL	
4 1/2" J-55	9.5#	1405'	6-1/4"	90 SK 65/35 POZ 12% GEL	
				40 SK 50/50 POZ "B"	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	BACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
1-1/2"	1279'	N/A

31. PERFORATION RECORD (Interval, size and number)

1280'-1295' / 30 (.38") HOLES
1290'-1295' / 10 (.39") HOLES
1186'-1192' / 12 (.39") HOLES

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
1280'-1295'	SEE ATTACHED REPORTS
1290'-1295'	" " "
1186'-1192'	" " "

33. PRODUCTION

DATE FIRST PRODUCTION _____ PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) _____ WELL IS CAPABLE OF PRODUCING IN COMMERCIAL QUANTITIES
WELL STATUS (Producing or shut-in) SHUT-IN GAS WELL

DATE OF TEST _____ HOURS TESTED _____ CHOKER SIZE _____ PROD'N. FOR TEST PERIOD _____ OIL—BSL. _____ GAS—MCF. _____ WATER—BSL. _____ GAS-OIL RATIO _____

FLOW. TUBING PRESS. _____ CASING PRESSURE _____ CALCULATED 24-HOUR RATE _____ OIL—BSL. _____ GAS—MCF. _____ WATER—BSL. _____ OIL GRAVITY-API (CORR.) _____

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) _____ TEST WITNESSED BY _____
WAITING ON PIPELINE CONNECTION

35. LIST OF ATTACHMENTS

TREATMENT REPORT FOR FRAC/BLM SUNDRY FOR FRACS/DAILY REPORT FOR FRAC

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

DATE

MAY 20, 1993

*(See Instructions and Spaces for Additional Data on Reverse Side) MAY 24 1993

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.

NMOCO

BY

FARMINGTON DISTRICT OFFICE

38. GEOLOGIC MARKERS

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
OJO ALAMO	160'	295'	SANDSTONE			
KIRTLAND	295'	1005'	SHALE & SANDSTONE			
FRUITLAND	1005'	1130'	COAL, SILT & SANDSTONE			
BASAL COAL	1130'	1295'	COAL			
PC	1295'		SANDSTONE			

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

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

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

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

TYPE OF SUBMISSION	TYPE OF ACTION
☐ Notice of Intent	☐ Abandonment
☒ Subsequent Report	☐ Recompletion
☐ Final Abandonment Notice	☐ 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, and give pertinent dates, 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

RECEIVED
BLM
93 MAY 21 PM 3:38
070 FARMINGTON, NM

14. I hereby certify that the foregoing is true and correct
Signed J. Keith Edwards Title PRESIDENT Date MAY 20, 1993

(This space for Federal or State office use)
Approved by _____ Title _____ Date _____
Conditions of approval, if any:

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.

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: 15,500 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	BACTERIACIDE

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	BACTERIACIDE

WALSH ENGINEERING & PRODUCTION WORKOVER AND COMPLETION REPORT

2nd FRAC

Operator: EDWARDS & ASSOC
Date: 5/17/93
Field: Basin Fr Coal
Contractor:
Work Summary:

Well Name: CONRAD 22
Report No: 3
County: S.J. State: N.M.
Supervisor: Paul Tremblin

R.D. TRIPLE? & MOVE TO CONRAD 22. R.D. PERFORMING & PERFORATING
10 (0.39") HOLE FROM 1275-95 AND 12 (0.39") HOLE FROM 1186-1192. TOTAL 26 PERFS
DURING PERFOR TO OPEN HOLE WAS. R.D. PERFORMING & R.D. WIRELINE TO FORM
FRAC WELL WITH 1500 GALLONS OF 20/40 SAND FOLLOWED BY 2500 GALLONS OF 70/140 SAND
PERFORATION BY 10,500 GALLONS OF 20/40 SAND AT 1-3 PPG. DROPPED FROM SURFACE TO 60" DURING 1 PPG
STAGE. PUMPED 29,000 GALLONS OF 20/40 SAND AT 1-3 PPG IN 20-45 MIN. DURING
FORM SURFACE TO 60" AT 1 PPG 20/40 SAND. FINISHED W/ 6000 GALLONS OF 12/20 SAND ON 3 PPG
IN 60" OF FORM. FINISHED TO TOP PERFOR W/ 1/2" A.P.G. FORM SURFACE TO 20" SURFACE
UNDER 60" SURFACE. 20" SURFACE. COAL SURFACE. FORM SURFACE. 20" SURFACE. 20" SURFACE.
WELL COMPLETED @ 11:45 AM 5/17/93. TOTAL 19700 GALLONS - 1500 10 MIN - 1500 15 MIN - 1500
AIR - 30 GPM; AIR - 30 GPM; AIR - 2300 GPM. TOTAL 2300 GPM. PRESSURE STARTED DROPPING.
WHEN 1 1/2" 20/40 WAS ON FORMATION. TOTAL FORM BIG BOLL TOTAL 16" 200, 100, 500.
R.D. WIRELINE & OPENED WELL 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

10M
16,373
190
193

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

18,220
34,554

Pulled from well				Well Record				Run in well			
1"	7/8"	3/4"	5/8"	Equipment				1"	7/8"	3/4"	5/8"
Has tube				Sucker Rod Count				New tube			
API Pump Size				Pump				API Pump Size			
Depth				Tubing Bottom				Depth			
Length				Gas or Mud Anchor				Length			
Length				Perforated Nipple				Length			
Size				Sealing Nipple				Size			
Length				Tubing Count				Length			
Tubing Sub				Anchor Catcher				Tubing Size			
Type				Factor				Tubing Sub			
Type				Type				Type			