

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒

DEEPEN ☐

PLUG BACK ☐

b. TYPE OF WELL

OIL
WELL ☐

GAS
WELL ☒

Coal Seam
OTHER

2. NAME OF OPERATOR

Amoco Production Company ✓

3. ADDRESS OF OPERATOR

2325 East 30th Street, Farmington NM 87401

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

At surface

1285' FSL x 950' FWL

At proposed prod. zone

Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

21 miles northeast of Aztec NM

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT. 950'
(Also to nearest drlg. unit line, if any)

18. DISTANCE FROM PROPOSED LOCATION*

TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

16. NO. OF ACRES IN LEASE

1,275.56 ac.

19. PROPOSED DEPTH

See attached plan
2890'

17. NO. OF ACRES ASSIGNED
TO THIS WELL

320 W 12 323

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether TO or FROM, etc.)

5853' GR / subject to technical and
procedural review pursuant to 43 CFR 3165.3

22. APPROX. DATE WORK WILL START*

As soon as permitted

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH
12-1/4"	9-5/8"	36# K55	250'
8-3/4"	7"	20# K55	2432'
6-1/4"	5-1/2"	23# P110	2629'

DRILLING OPERATIONS AUTHORIZED BY
SUBJECT TO COMPLIANCE WITH ATTACHED
"GENERAL REQUIREMENTS"

200 cf Class B
683 cf Class B

Notice of Staking was submitted 04/12/89.

This well was formerly named Pritchard 1, 1A, 2, 2A #11.

Lease description:

T30N-R9W, NMPM

Sec. 1: Lots 1,2,3,4, S/2 N/2, S/2

T31N-R9W, NMPM

Sec. 34: Lots 1-16

RECEIVED
OCT 31 1990
OIL CON. DIV
DIST. 3

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

J. J. Hampton

TITLE Admin. Supv.

DATE 5/3/89

(This space for Federal or State office use)

PERMIT Approval of this action does

APPROVAL DATE

not warrant that the applicant

APPROVED BY

CONDITIONS OF APPROVAL

holds legal or equitable right in NMOC

or title to this lease."

Hold C-104 For Pritchard #9
See Instructions On Reverse Side

Amoco proposes to drill the well to further develop the Fruitland Coal reservoir. The well will be drilled to the surface casing point using native mud. The well will then be drilled to the intermediate casing point with a non-dispersed mud system. The attached modified 11" 3000 psi blowout preventer will be used. Amoco will attempt to complete the Fruitland coal by drilling the interval with water and air. A service unit will probably be used to drill into the coals using the attached modified 6" 3000 psi BOP. If commercial productivity is established, then a 5-1/2" uncemented liner will be run. Amoco reserves the right to utilize a drilling rig to drill this hole section.

Quantity	Size	Weight	Description	Cementing Program
<u>SURFACE CASING</u>				
250'	9-5/8"	36#	K55 ST&C	200 cf Class B, 2% CaCl ₂ 15.6 ppg
<u>INTERMEDIATE STRING</u>				
2432'	7"	20#	K55 ST&C	683 cf Class B, 65:35:6 10% salt, .25% dispersant 13.1 ppg 118 cf Class B, 2% CaCl ₂ 15.6 ppg
<u>LINER</u>				
300'	5-1/2"	23#	P110 LT&C	None

The above casing design is based upon a 9.0#/gallon mud weight.

CONTINGENCY OPERATIONAL PLAN

In the event the well does not yield commercial volumes of gas from the open hole completion, the water filled hole will be mudded-up and weighted-up as necessary (9-11#/gal.) for hole stability and well control. The well will then be deepened approximately 250' into the Pictured Cliffs formation to provide necessary footage for a cased and cemented completion technique. The Fruitland coals will then be perforated and fracture stimulated. The Pictured Cliffs formation will be isolated with cement.

CONTINGENCY LINER

650'	4-1/2"	11.6#	K-55 LT&C	250 cf Class B
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The contingency string is based upon a 11.0#/gallon mud weight.

Evaluation:

Mud logs will be the only logs run if the well is completed as an open hole. The log surveys (FDC/GR/CAL, DIL/SP/GR, Microlog, Mudlogger) will be run only if the well is drilled into the Pictured Cliffs formation, and only if well condition is suitable to allow proper wireline log interpretation.

Submit to Appropriate
District Office
State Lease - 4 copies
Fee Lease - 3 copies

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised 1-1-89

OIL CONSERVATION DIVISION

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

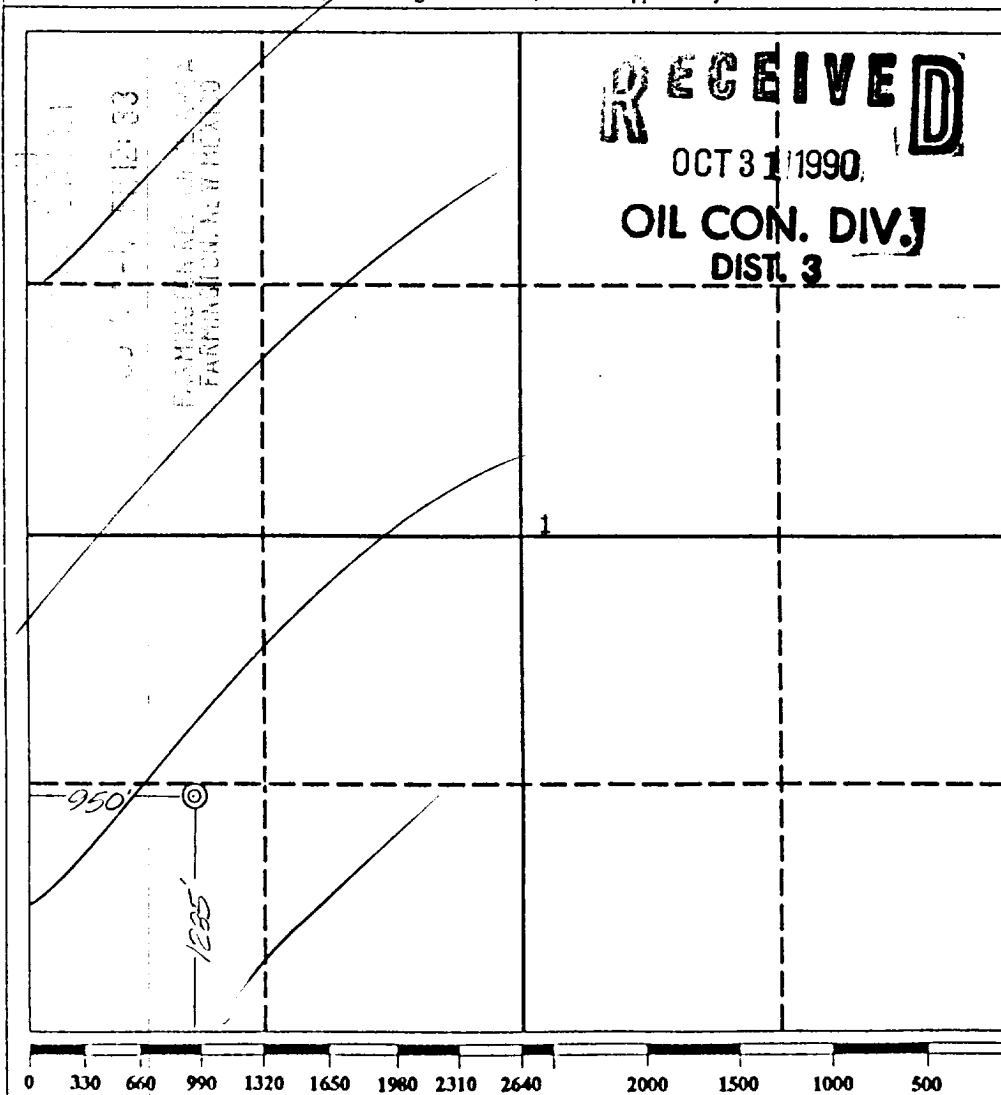
DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator AMOCO PRODUCTION COMPANY			Lease PRITCHARD A		Well No. # 11
Unit Letter M	Section 1	Township 30 NORTH	Range 9 WEST	County SAN JUAN	
Actual Footage Location of Well: 1285 feet from the SOUTH line and 950 feet from the WEST line					
Ground level Elev. 5853	Producing Formation Fruitland		Pool Basin Fruitland Coal Gas	Dedicated Acreage: 320 W/2 3 2 3 Acres	

- Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization, unitization, force-pooling, etc.?
☐ Yes ☐ No If answer is "yes" type of consolidation _____
If answer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary). _____
No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division.



OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

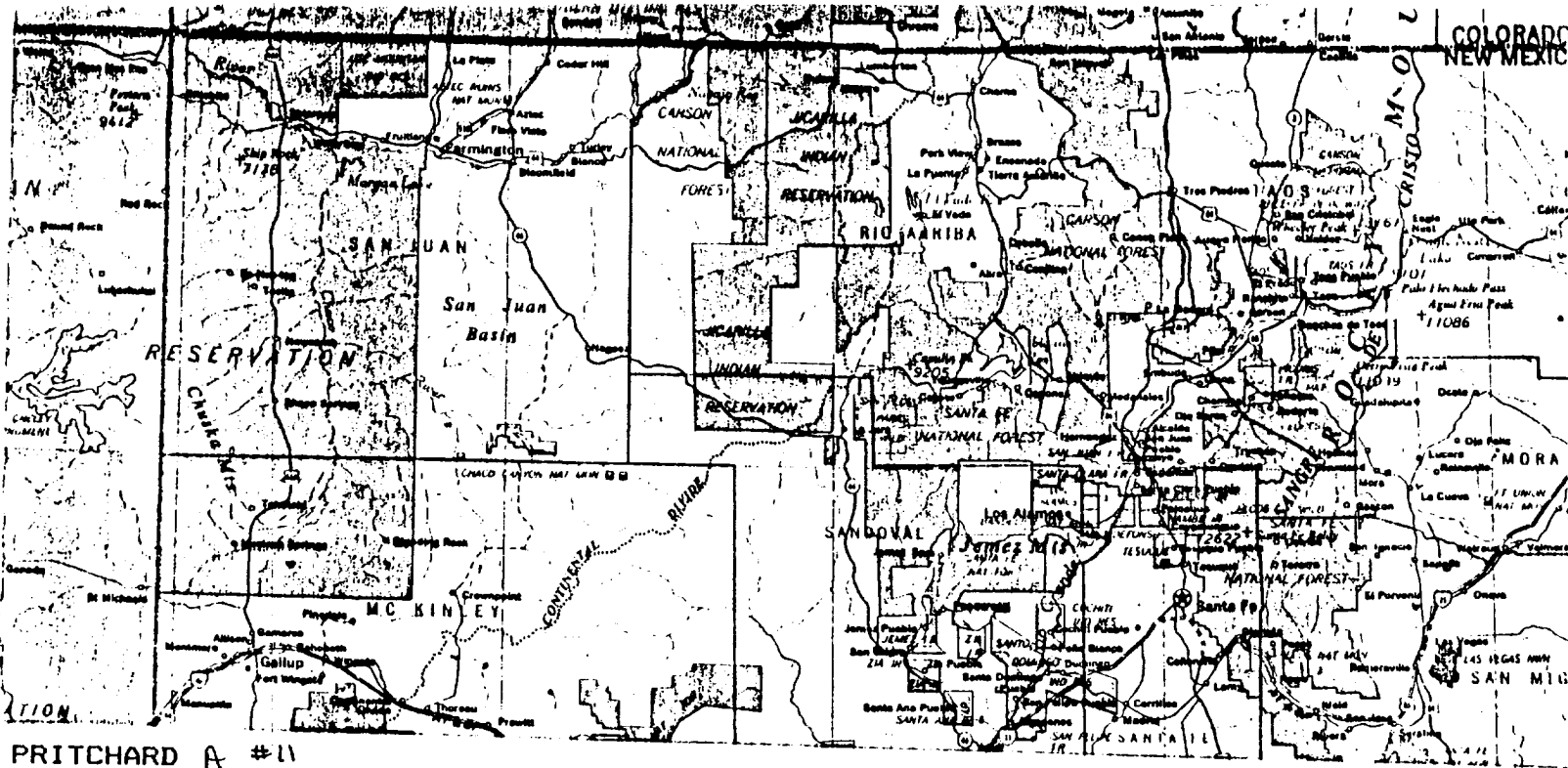
Signature *B. D. Shaw*
Printed Name **B. D. Shaw**
Position **Admin. Supv.**
Company **Amoco Production**
Date **April 12, 1989**

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed
April 1, 1989

Signature & Seal of Professional Surveyor
Gary D. Vann
GARY D. VANN
7016
Certification No. **7016**
REGISTERED PROFESSIONAL LAND SURVEYOR



PRITCHARD A #11
 1285' F/SL 950' F/WL
 SEC. 1, T30N, R9W, NMPM
 RAIL POINT: 134 miles from Montrose CO
 MUD POINT: 21 miles from Aztec NM
 CEMENT POINT: 35 miles from Farmington NM

EXHIBIT A

A #11
 O PRITCHARD #1, 1-A, 2, 2A #11

