

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 ☒

OTHER Coal Seam

SINGLE
ZONE ☒

MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

Amoco Production Company ATTN: J. L. Hampton

3. ADDRESS OF OPERATOR

P. O. Box 800 Denver, Colorado 80201

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

At surface

1080' FNL, 1200' FEL SW/NE

At proposed prod. zone

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

13 miles from Aztec, NM

10. DISTANCE FROM PROPOSED*

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

1400'

16. NO. OF ACRES IN LEASE

1160.05

18. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

19. PROPOSED DEPTH

3342' TD

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

6548' 519 GR

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH
12 1/4"	9 5/8"	36#	250'
8 3/4"	7"	20#	3110'
6 1/4"	5 1/2"	23#	3342' (TD)

17. NO. OF ACRES ASSIGNED
TO THIS WELL

320 acres E/2 315.08

20. ROTARY OR CABLE TOOLS

Rotary

12. COUNTY OR PARISH

San Juan

13. STATE

NM

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

Sec. 19, T31N, R9W

22. APPROX. DATE WORK WILL START*

As soon as permitted

Notice of Staking was Submitted: 3/20/90

Lease Description:

T31N, R9W:

Sec. 19: Lots 5-20

Sec. 20: Lots 1-16

RECEIVED
SEP 04 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.

SIGNER

J. L. Hampton

TITLE Sr. Staff Admin. Supervisor

DATE

3/28/90

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

NMOCD

AUG 29 1990
AREA MANAGER

*See Instructions On Reverse Side

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

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

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

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

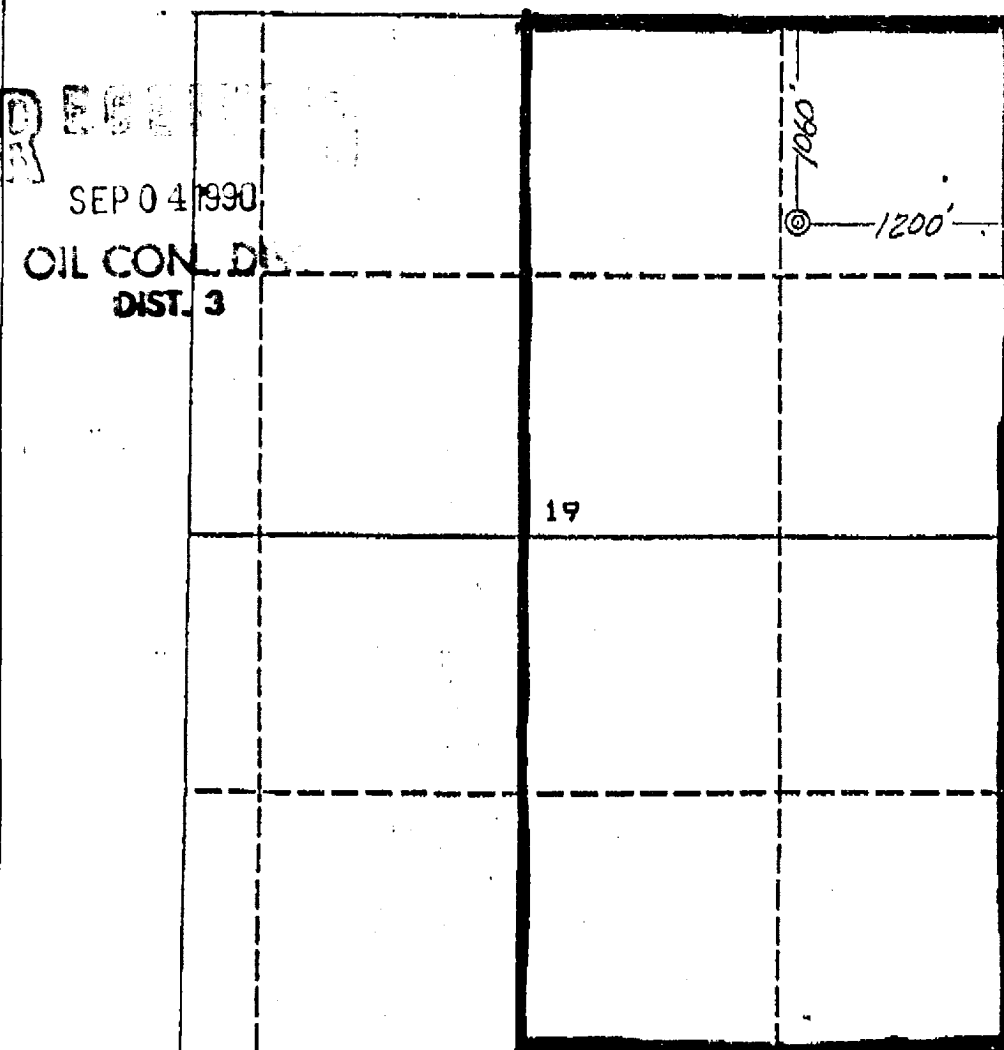
DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator AMOCO PRODUCTION COMPANY			Lease BARRETT /A/		Well No. # 14
Unit Letter A	Section 19	Township 31 NORTH	Range 9 WEST	County SAN JUAN	
Actual Footage Location of Well: 1060 feet from the NORTH line and 1200 feet from the EAST line					
Ground level Elev. 6519	Producing Formation Fruitland Coal	Pool Basin Fruitland Coal Gas		Dedicated Acreage: E/2 315.08 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 900-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.

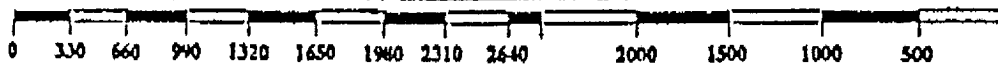
Signature *J. L. Hampton*
Printed Name **J. L. Hampton**
Position **Sr. STAFF Admin Supv**
Company **Amoco Prod**
Date **8-14-90**

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
June 12, 1990

Signature & Seal of Professional Surveyor
GARY D. VANN
NEW MEXICO
REGISTERED PROFESSIONAL LAND SURVEYOR
7016



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 12" 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
----------	------	--------	-------------	-------------------

SURFACE CASING

250'	9-5/8"	36#	K55 ST&C	200 cf Class B, 2% CaCl ₂ 15.6 ppg
------	--------	-----	----------	--

INTERMEDIATE STRING

3110'	7"	20#	K55 ST&C	cf Class B, 65:35:6 10% salt, .25% dispersant 13.1 ppg 118 cf Class B, 2% CaCl ₂ 15.6 ppg
-------	----	-----	----------	---

LINER

300	5-1/2"	15.5#	K55 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 200' 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.

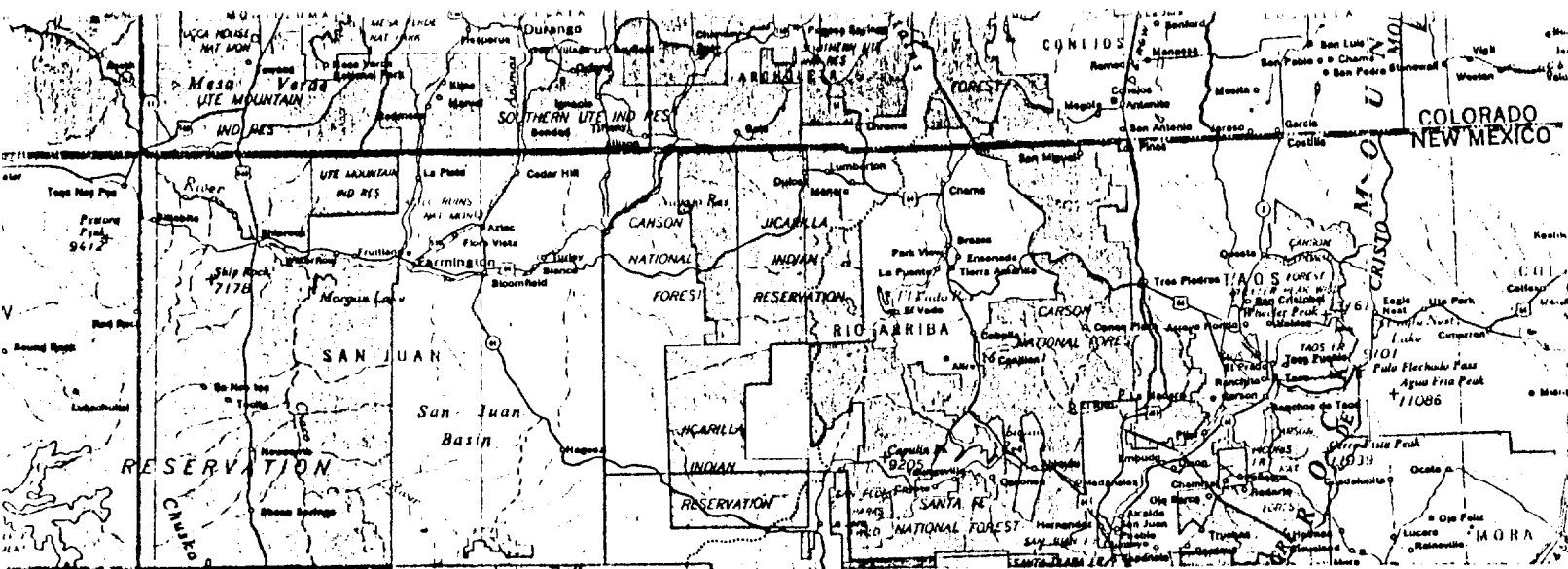
CONTINGENCY LINER

650'	4-1/2"	11.6#	K-55 LT&C	250 cf Class B
------	--------	-------	-----------	----------------

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, 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.



BARRETT /A/ # 14
 1720' F/NL 1400' F/EL
 SEC. 19, T31N, R9W, NMPM
 RAIL POINT: 154 miles from Montrose, Co.
 MUD POINT: 13 miles from Aztec, NM
 CEMENT POINT: 27 miles from Farmington, NM

