

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

30-039-25047

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

1940' FNL, 1850' FEL, NW/NE

At proposed prod. zone

same

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

15. DISTANCE FROM PROPOSED*

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

1040'

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

10. NO. OF ACRES IN LEASE

960.00

10. PROPOSED DEPTH

3553' TD

17. NO. OF ACRES ASSIGNED
TO THIS WELL

320 acres E/2

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.) This action is subject to technical and
procedural review pursuant to 43 CFR 3165.3
and appeal pursuant to 43 CFR 3165.4.
PROPOSED CASING AND CEMENTING PROGRAM

22. APPROX. DATE WORK WILL START*

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	8 5/8"	24#	250'	250 cf (cement to surface)
7 7/8"	5 1/2"	17#	3553' (TD)	995 cf (cement to surface)

Notice of Staking was submitted: 10/24/90

Lease Description:

T28N-R7W:

Sec. 13: W/2

Sec. 23: E/2

Sec. 24: E/2

RECEIVED
JAN 31 1991
OIL CON. DIV.
DIST. 3

RECEIVED
JAN 8 1991
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. J. L. Hampton

SIGNED

J. L. Hampton

TITLE Sr. Staff Admin. Supv.

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

NMOOD

APPROVED
AS AMENDED

JAN 11 1991

AREA MANAGER

*See Instructions 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.

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
1000 Rio Brazos Rd., 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 SAN JUAN 28-7 UNIT		Well No. # 413
Unit Letter B	Section 24	Township 28 NORTH	Range 7 WEST	County RIO ARriba	NMPM

Actual Footage Location of Well:

940 feet from the NORTH line and 1850 feet from the EAST line

Ground level Elev. 6602	Producing Formation Fruitland Coal	Pool Basin Fruitland Coal Gas	Dedicated Acreage: E/2 320.00 Acres
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- Outline the acreage dedicated to the subject well by colored pencil or hachure 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: *J. L. Hampton*
Printed Name: J. L. Hampton
Position: Sr Staff Admin Supr
Company: Amoco Prod
Date: 11-8-90

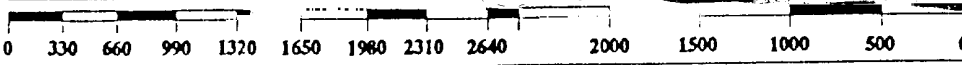
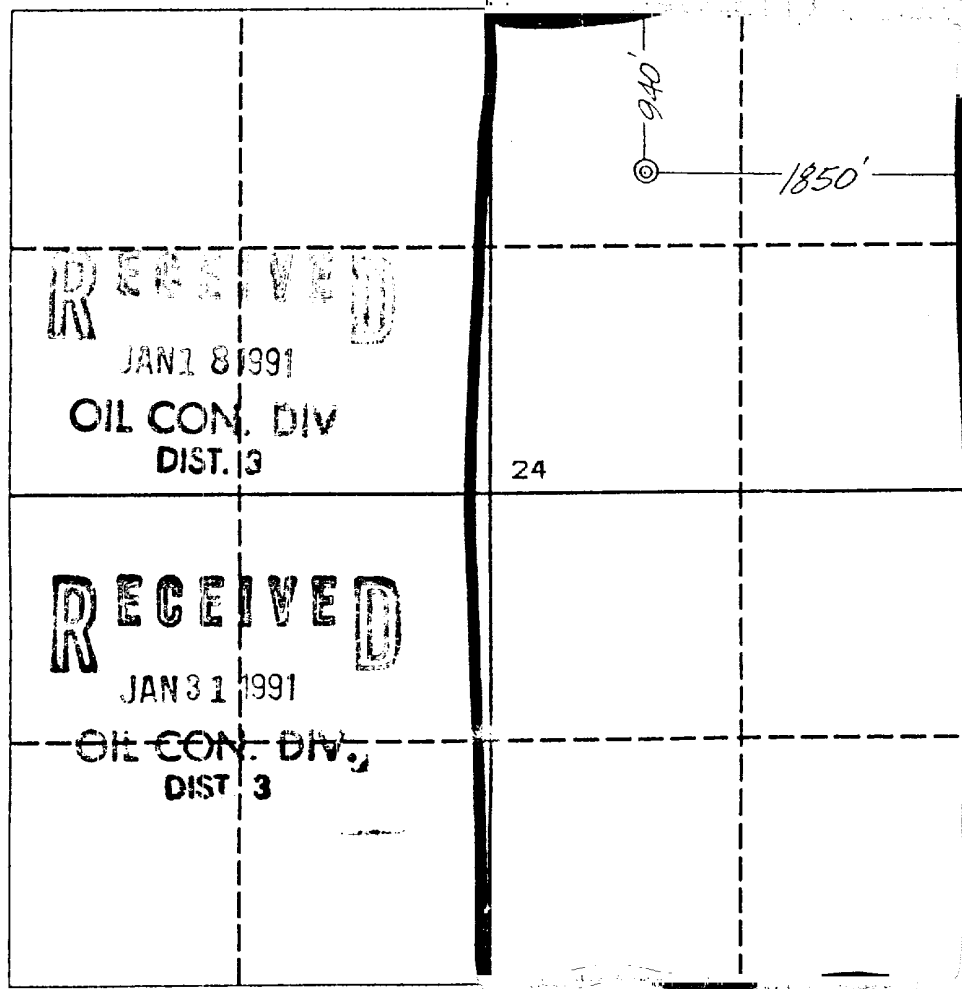
SURVEYOR CERTIFICATION

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: October 31, 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 total depth with a non-dispersed mud system. The attached modified 12" 3000 psi blowout preventer will be used (please see attached BOP information). The well will be completed in the Fruitland Coal with a fracture stimulation.

Quantity	Size	Weight	Description	Cementing Program
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SURFACE CASING

250'	8-5/8"	24#	K55 ST&C	250 cf Class B, 2% CaCl ₂ 15.6 ppg
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INTERMEDIATE STRING

3553	5.5"	17#	K55 ST&C	945 cf Class B, 65:35:6 10% salt, .25% dispersant 13.1 ppg 118 cf Class B, 2% CaCl ₂ 15.6 ppg
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The above casing design is based upon a 11.0#/gal mud weight.

EVALUATION

The log surveys (FDC/GR/CAL, Microlog) will be run per attached drilling and completion program.

AMOCO PRODUCTION COMPANY DRILLING AND COMPLETION PROGRAM

Lease & Well # San Juan 28-7 #413 Date: _____
 City/St LaPlata/Colo FLAC NO. _____
 Field Ignacio Blanco Fruitland Operation Center Durango/San Juan
 Surf. Loc. 940' FNL, 1850' FFL, N41°E, Sec 24, T28N R7E BHL0C same
 Coal Degas # 312 Area _____

CRITICAL WELL _____ NON-CRITICAL WELL _____
 ORIGINAL _____ REVISION # _____

APPROXIMATE DEPTHS OF GEOLOGICAL MARKERS

ESTIMATED ELEVATION 6614 KB _____

SPECIAL SURVEYS

TYPE DEPTH INTERVAL
 FDC/GR/CAL (TD+1000')-TD
 Microlog (TD+1000')-TD

MARKER	TVD ELEV	MEAS DEPTH
Ojo Alamo	+4100	2514
Fruitland #	+3350	3064
Pictured Cliffs	+3260	3354

REMARKS Run FDC at slow speed high sample rate through bottom 1000' of hole. Bulk Density presentation as per standard coal log format. Customer edit: 9 track LIS tape to R. G. Kemp in Denver - ASAP

TOTAL DEPTH +3060 3554

SPECIAL TESTS

None

*POSSIBLE PAY #PROBABLE COMPLETION INTERVAL

DRILL CUTTING SAMPLES		DRILLING TIME	
FREQUENCY	DEPTH INTERVAL	FREQUENCY	DEPTH INTERVAL
None		Geolograph	BSC-TD

REMARKS

REMARKS Correct for actual elevation if necessary. The actual total depth will be 200' below the the last coal.

MUD PROGRAM

Approximate Interval	Type Mud	Weight #/Gal.	Viscosity Sec. API	W.I. CC/30M	Other Specifications
0-250'	spud				
250-TD	LSND	8.6-11.0			Sufficient to clean hole and maintain hole conditions for logs.

Remarks:

CASING PROGRAM (Normally, tubular goods allocation letter specifies casing sizes to be used. Hole sizes will be governed by Contract)

CASING STRING CONDUCTOR	EST. DEPTH	CASING SIZE	HOLE SIZE	SX CEMENT	TYPE CEMENT	DESCRIP. OF LANDING PT
SURFACE	250'	8 5/8"	12 1/4"	to sfc.	**	
INTERMEDIATE						
OIL STRING	TD	5 1/2"	7 7/8"	to sfc.	**	
LINER CASING						

Remarks: ** Operation Center Drilling Engineer to design.

WELLHEAD: 2,000 psi threaded equipment

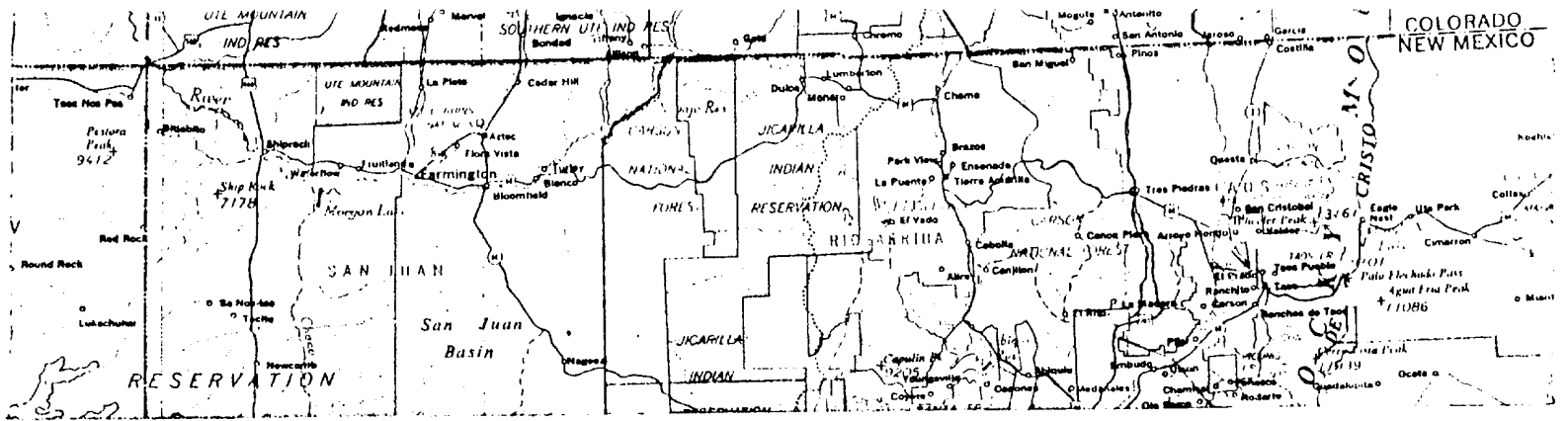
COMPLETION PROGRAM: Southern Division Coal Degas Group to design

GENERAL REMARKS: This well to be maintained in confidential status.

Prepared by: R. G. Kemp, T. R. Enterline, R. A. Ross, G. E. Gray

Approvals:

PRODUCTION DEPARTMENT	DATE	EXPLORATION DEPARTMENT	DATE
C:CODEGAS3.SHL			



SAN JUAN 28-7 UNIT # 413
 940' F/NL 1850' F/EL
 SEC. 24, T28N, R7W, NMMP
 RAIL POINT:
 MUD POINT:
 CEMENT POINT:

