

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE*
(Other instructions on
reverse side)

30-045-28493
Form approved.
Budget Bureau No. 1004-0136
Expires August 31, 1985

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

SINGLE
ZONE ☒

MULTIPLE
ZONE ☐

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

940' FSL x 1650' FWL

At proposed prod. zone

Same

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

20 miles northeast of Bloomfield NM

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drg. unit line, if any) 1675'

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

16. NO. OF ACRES IN LEASE

2,549.29

See attached plan
3185'

17. NO. OF ACRES ASSIGNED
TO THIS WELL

320

20. ROTARY OR CABLE TOOLS

Rotary

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

6399' GR

DRILLING OPERATIONS AUTHORIZED ARE

23. SUBJECT TO COMPLETION OF THE FOLLOWING PROGRAM
"GENERAL REQUIREMENTS"

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
2-1/4"	9-5/8"	36# K55	250'	200 cf Class B
8-3/4"	7"	20# K55	2711'	762 cf Class B
6-1/4"	5-1/2"	23# P110	2923'	

Notice of Staking was submitted 4-26-89.

This well had an archaeological survey under the name Gartner 19 by SJ County
Arch. Research Center in October 88.
Lease description:

T30N-R8W, NMPM

Sec. 26: E/2, SW/4, E/2 NW/4, SW/4 NW/4

Sec. 27: SE/4 NE/4, W/2 NE/4, NW/4, S/2

Sec. 28: All

Sec. 29: Lots 1,8 (E/2 NE/4)

Sec. 33: All

RECEIVED
DEC 14 1990

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JAN 07 1991

OIL CON. DIV.
DIST. 3

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

SIGNED J. L. Hampton
(This space for Federal or State office use)

TITLE Admin. Supv.

DATE 5/23/89

APPROVED
AS AMENDED

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

DEC 11 1990
AREA MANAGER

*See Instructions On Reverse Side

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

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

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator AMOCO PRODUCTION COMPANY			Lease GARTNER /A/		Well No. # 16
Unit Letter N	Section 33	Township 30 NORTH	Range 8 WEST	County SAN JUAN	
Actual Footage Location of Well: 940 feet from the SOUTH line and 1650 feet from the WEST line					
Ground level Elev. 6401	Producing Formation Fruitland Coal		Pool Basin Fruitland Coal Gas		Dedicated Acreage 3/2 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.

RECEIVED

JAN 07 1991

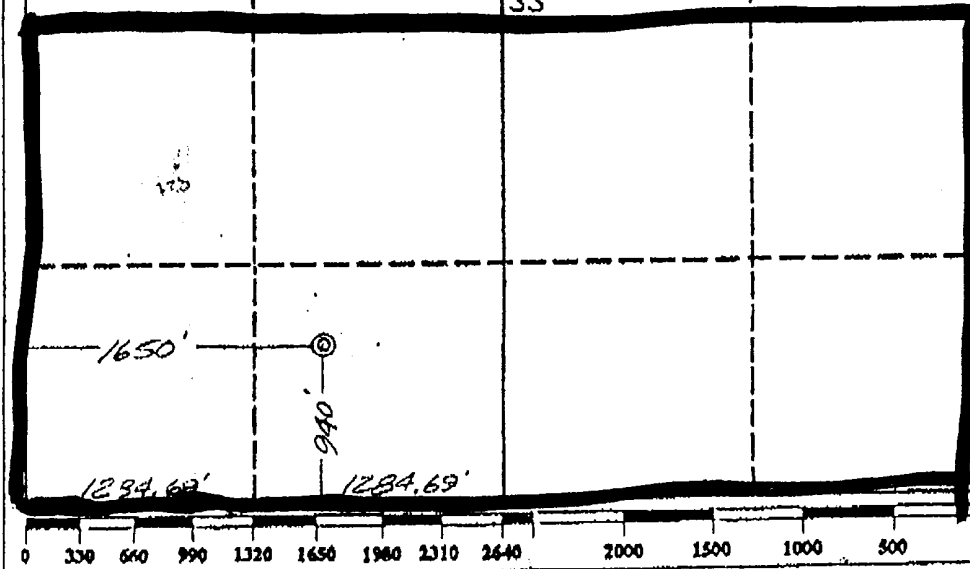
OIL CON. DIV.
DIST. 3

RECEIVED

DEC 14 1990

OIL CON. DIV.
DIST. 3

33



OPERATOR CERTIFICATION

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

Signature *[Signature]*
Printed Name **JL Hampton**
Position **Sr Staff Admin Sgr**
Company **Amoco Production**
Date **12-6-90**

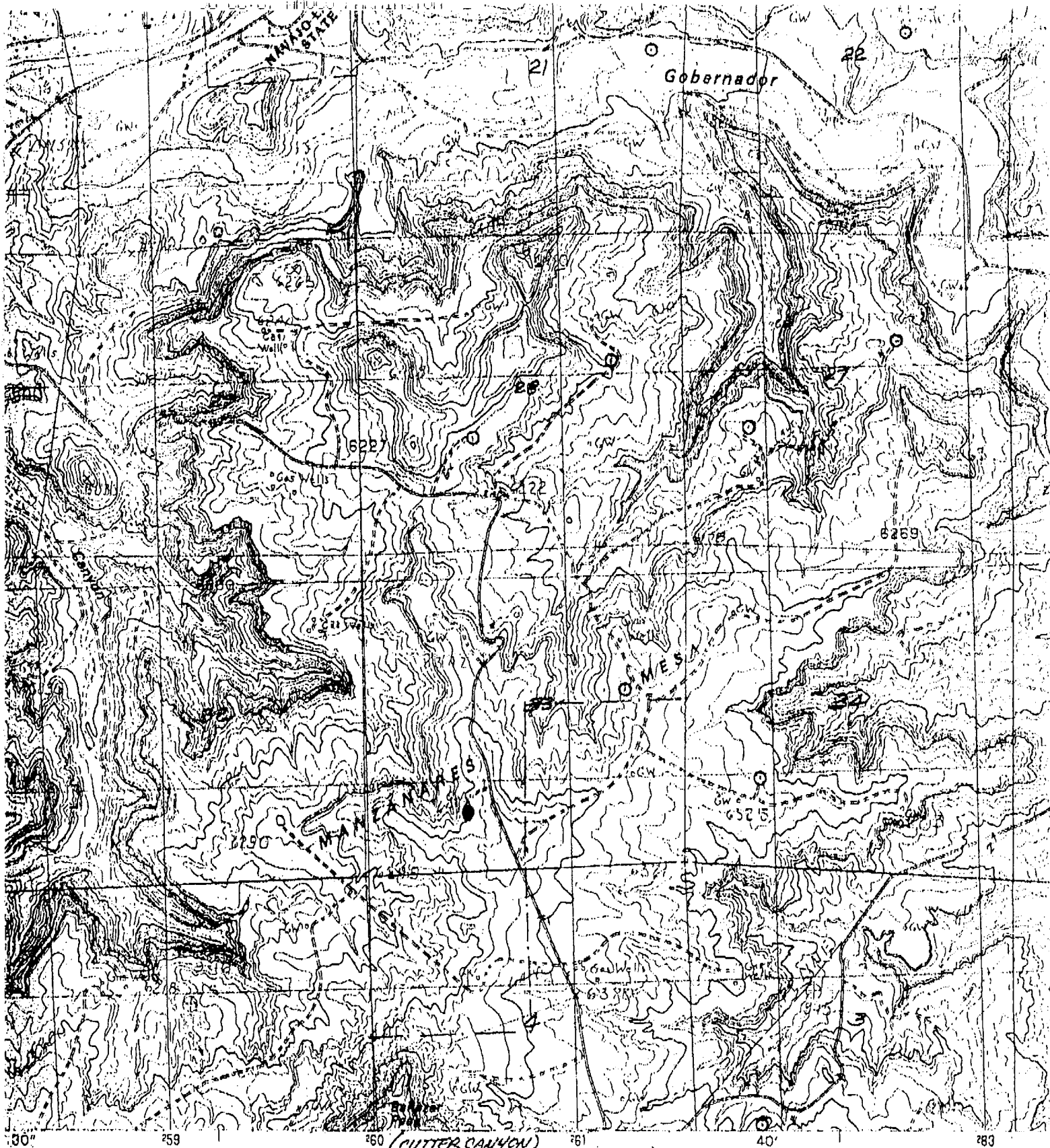
SURVEYOR CERTIFICATION

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.

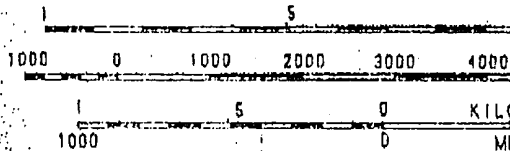
Date Surveyed
May 22, 1989

Signature & Seal
Professional Surveyor

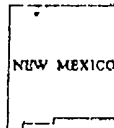
GARY D. VANN
NEW MEXICO
REGISTERED PROFESSIONAL LAND SURVEYOR
7016



SCALE 1:24 000



AMOCO PRODUCTION COMPANY
 GARTNER /A/ # 16
 940' F/BL 1630' F/WL
 SEC. 33, T30N, R8W, NMPM
 SAN JUAN COUNTY, NEW MEXICO



QUADRANGLE LOCATION

1	2	3	1 1/2 miles N40
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UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPPLICATE*
(Other instructions on re-
verse side)

Budget Bureau No. 1004-0135
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.

SF 08597

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL ☐ GAS WELL ☒ OTHER

2. NAME OF OPERATOR

Amoco Production Company

ATTN: J.L. HAMPTON

3. ADDRESS OF OPERATOR

P. O. Box 800 Denver, Co. 80201

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.
See also space 17 below.)

At surface

2270' FWL, 1440' ESL NE/SW

14. PERMIT NO.

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

6392' GR

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Gartner A

9. WELL NO.

16

10. FIELD AND POOL, OR WILDCAT

Basin Fruitland Coal Gas

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

Sec. 33 T30N-R8W

12. COUNTY OR PARISH

San Juan

13. STATE

New Mexico

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

ABANDON OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other) casing design change

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

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

17. 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.)

Amoco requests approval to change the casing design on the subject well from:

9 5/8" 36# set@ 250'

7" 20# set@2711'

5 1/2" 23# set@2923'

to: 8 5/8" 24# set@ 250' w/250cf (cement to surface.)

5 1/2" 17# set@3185' w/892cf (cement to surface.)

Please call Cindy Burton (303) 830-5119 if you have any questions pertaining to the above.

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

SIGNED

J. L. Hampton

TITLE Sr. Staff Admin. Supv.

DATE

11/3/89

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*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.

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

3185'	5.5"	17#	K55 ST&C	892 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, DIL/SP/GR, Microlog) will be run per attached drilling and completion program.



Revision (Previous 3-31-01)
Amoco Production Company
DRILLING AND COMPLETION PROGRAM

Durango Op. Ctr.
WF

FILE NO. 10-31-09

WELL NO. 16

LOCATION 1490 FSLX 2270 FWL Sec 33

T30N-R8W

Gartner "A"

San Juan County, New Mexico

Develop Fruitland Coal Degradation Reserves

METHOD OF DRILLING

TYPE TOOLS Rotary
DEPTH INTERVAL Surface - TD

SPECIAL SURVEYS

TYPE BSC-TD
FDC/GR/CN/CNL (TD+1000') - TD
Microlog (TD+1000') - TD

REMARKS
in FDC at slow speed high sample rate thru
allow 1000 ft of hole. Bulk Density presentation
per standard coal log format. Customer edit
track 113 tape to R.G. Kemp in Denver - ASDP

SPECIAL TESTS

None

APPROXIMATE DEPTHS OF GEOLOGICAL MARKERS

ESTIMATED ELEVATION 6405' K.B.
MARKER DEPTH ELEVATION
Ojo Alamo 2105' +4300'
Fruitland # 2778' +3627'
Pictured Cliffs 3188' +3217'
TOTAL DEPTH 3388' +3017'

*Possible Pay

* Probable Completion Interval

DRILL CUTTING SAMPLES
FREQUENCY DEPTH INTERVAL
None
Geolograph BSC-TD

REMARKS:

None

PROGRAM	APPROXIMATE INTERVAL	TYPE MUD	WEIGHT #/GAL.	VISCOSITY SEC. API	W.L. CC/30M	OTHER SPECIFICATIONS
	0-250'	SPUD				
	250-TD	LSND	8.6-11.0			Sufficient to clean hole and maintain hole conditions for logs

PROGRAM	EST. DEPTH	CASING SIZE*	HOLE SIZE*	SX. CEMENT	TYPE CEMENT	DESCRIPTION OF LANDING POINT, ETC.
CONDUCTOR						
SURFACE	250'	8 5/8"	12 1/4"	TO SFC.	AP X	
INTERMEDIATE						
DEEP STRING	TD	5 1/2"	7 7/8"	TO SFC.	AP X	

REMARKS
X-OP Operation Center Drilling Engineer to design

* Actual, the tubular goods allocation letter specifies casing sizes to be used. Hole sizes will be governed by contract.

Original 'TOP SET' completion technique. This form no replaces

GENERAL REMARKS
This well to be maintained in Confidential Status.
Total depth of well to be adjusted after survey to reflect correct elevation.

APPROVED BY B. Kemp / J. Davidson	APPROVED: FOR PRODUCING DEPARTMENT	APPROVED: FOR EMPLOYMENT DEPARTMENT
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