

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

## 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

SINGLE  
ZONE ☒MULTIPLE  
ZONE ☐

## 2. NAME OF OPERATOR

Amoco Production Company

## 3. ADDRESS OF OPERATOR

501 Airport Dr., Farmington, NM 87401

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

At surface

590' FNL x 650' FWL

At proposed prod. zone

Same

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

13.5 miles SE of Aztec, NM

## 16. DISTANCE FROM PROPOSED\*

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

590'

## 18. NO. OF ACRES IN LEASE

1067.75<sup>2</sup> 2372.88

## 17. DISTANCE FROM PROPOSED\*

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

3500'

## 19. PROPOSED DEPTH

7072'

## 20. ELEVATIONS (Show whether DF, RT, GR, etc.)

5816' GL

## 21. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	9-5/8"	36#	300'	282 cu ft Class B w/2% CaCl <sub>2</sub>
8-3/4"	7"	23#	2634'	475 cu ft Class B 50:50 poz. w/6% gel & FLA Tail in w/18 cu ft Class B neat.
6-1/4"	4-1/2 liner	10.5#	7072'	571 cu ft Class B 65:35 poz. w/6% gel & FLA Tail in w/18 cu ft Class B neat.

DRILLING OPERATIONS AUTHORIZED ARE  
SUBJECT TO COMPLIANCE WITH ATTACHED  
"GENERAL REQUIREMENTS"This action is subject to administrative  
appeal pursuant to 30 CFR 290.

Amoco proposes to drill the above well to further develop the Basin Dakota reservoir. The well will be drilled to the surface casing point using native mud, to 2634' using a low solids non-dispersed mud system and to TD using gas. Completion design will be based on open hole logs. A copy of all logs will be filed upon completion. Amoco's standard blowout prevention will be employed; see attached drawing for blowout preventer design.

The gas from this well is dedicated to gas sales contract 56,742. (EPNG)

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.

Original Signed By

SIGNED D. H. SHOEMAKERTITLE District EngineerDATE 2-2-83

(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_

APPROVAL DATE \_\_\_\_\_

APPROVED BY \_\_\_\_\_

TITLE \_\_\_\_\_

DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

Hold C104 for NSL

APPROVED  
AS AMENDED

MAY 23 1983

JAMES F. SIMS  
DISTRICT ENGINEER

Form C-107  
Revised 10-1-78

Scale: 1"=1000'

Annie L. Elliott "B" No. 6E  
590' FNL x 650' FWL, Section 10, T29N, R9W  
San Juan County, New Mexico

The geologic name of the surface formation is the Tertiary Nacimiento.

Estimated tops of important geologic markers and potential water, oil, or gas bearing formations:

<u>FORMATION</u>	<u>DEPTH</u>	<u>ELEVATION</u>
Ojo Alamo	1220 '	4596 '
Kirtland	1370 '	4446 '
Fruitland	2150 '	3666 '
Pictured Cliffs	2434 '	3382 '
Chacra (if present)	'	'
Cliff House	4054 '	1762 '
Mesaverde-		
Point Lookout	4790 '	1026 '
Gallup	5914 '	-98 '
Dakota	6872 '	-1056 '
TD	7072 '	-1256 '

Estimated KB elevation: 5829 '

Drilling fluid to 2634 will be a fresh water, low solids non-dispersed mud system. Open hole logging program will include logs from TD to below surface casing: Gamma-Ray-Induction; Comp. Density-Neutron Log  
2634'-TD Gas Drilled.

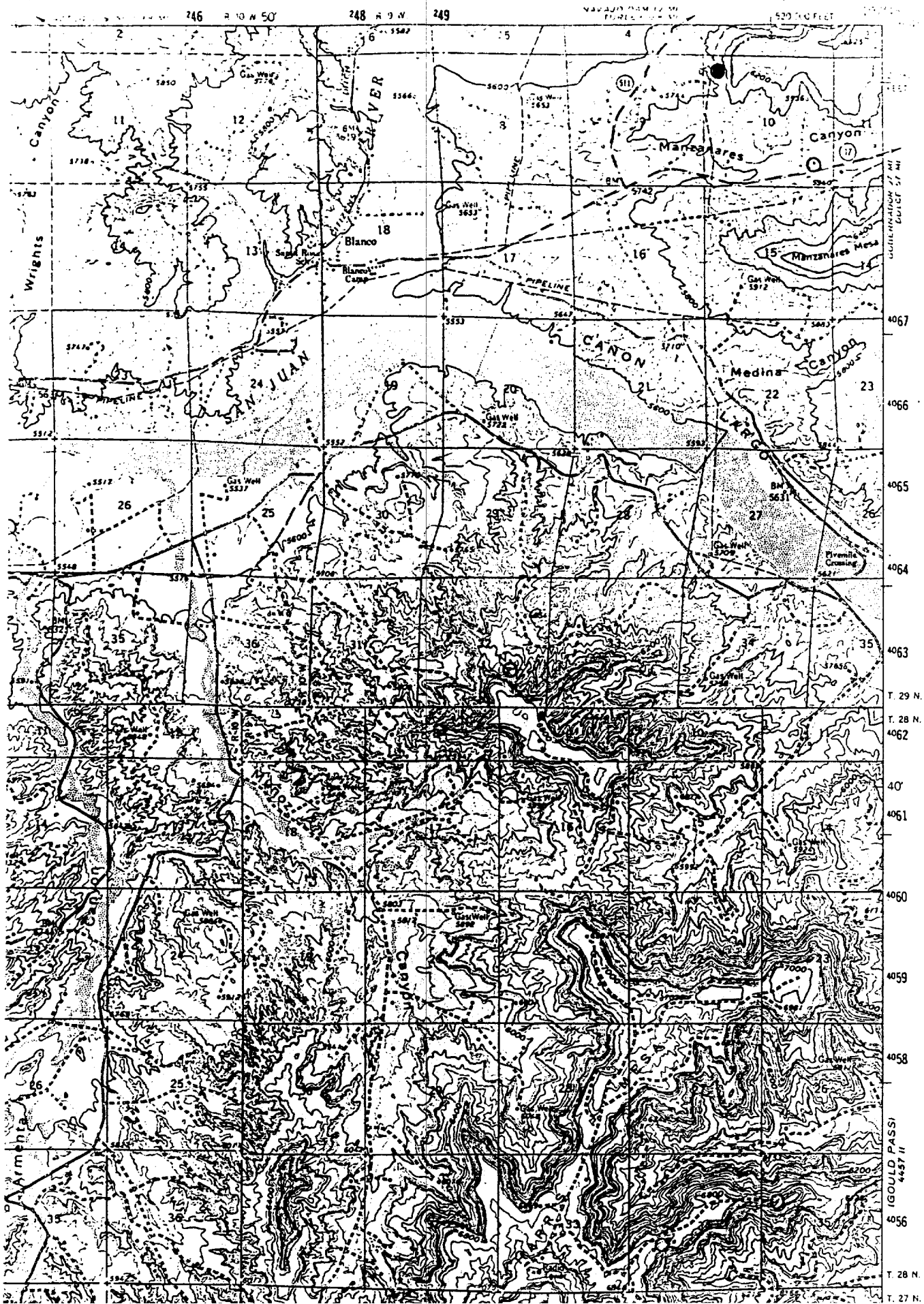
Completion design will be based on these logs. No cores or drill stem tests will be taken.

Operations will commence when permitted and last approximately 2 weeks.

Amoco's standard blowout prevention will be employed (see attached drawing).

In the past, drilling in this area has shown that no abnormal pressures, temperatures, nor hydrogen sulfide gas will be encountered.

BLOOMFIELD QUADRANGLE  
NEW MEXICO-SAN JUAN CO  
15 MINUTE SERIES (TOPOGRAPHIC)





STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT  
OIL CONSERVATION DIVISION

February 14, 1983

TONEY ANAYA  
GOVERNOR

POST OFFICE BOX 2088  
STATE LAND OFFICE BUILDING  
SANTA FE, NEW MEXICO 87501  
(505) 827-5800

Amoco Production Company  
Petroleum Center Building  
501 Airport Drive  
Farmington, New Mexico 87401

Attention: S. D. Blossom

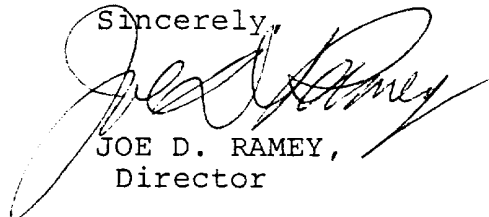
Administrative Order NSL-1656

Gentlemen:

Reference is made to your application for a non-standard location for your Annie L. Elliott "B" Well No. 6E located 590 feet from the North line and 650 feet from the West line of Section 10, Township 29 North, Range 9 West, NMPM, Basin Dakota Field, San Juan County, New Mexico.

By authority granted me under the provisions of Rule 3 of Order No. R-1670, the above-described unorthodox location is hereby approved.

Sincerely,



JOE D. RAMEY,  
Director

JDR/RLS/dr

cc: Oil Conservation Division - Aztec  
Oil & Gas Engineering Committee - Hobbs

RECEIVED  
FEB 22 1983  
OIL CON. DIV.  
DIST. 3



STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION  
AZTEC DISTRICT OFFICE

1000 RIO BRAZOS ROAD  
AZTEC, NEW MEXICO 87410  
(505) 334-6178

OIL CONSERVATION DIVISION  
BOX 2088  
SANTA FE, NEW MEXICO 87501

DATE 2-14-83

RE: Proposed MC \_\_\_\_\_  
Proposed DHC \_\_\_\_\_  
Proposed NSL ✓ \_\_\_\_\_  
Proposed SWD \_\_\_\_\_  
Proposed WFX \_\_\_\_\_  
Proposed PMX \_\_\_\_\_

Gentlemen:

I have examined the application dated 2-8-83  
for the Amoco Annie L. Elliott B #6E D-10-29N-9W  
Operator Lease and Well No. Unit, S-T-R

and my recommendations are as follows:

Approve  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Yours truly,

Jeff A. Edmister



**Amoco Production Company**

Petroleum Center Building  
501 Airport Drive  
Farmington, New Mexico 87401  
505-325-8841

S. D. Blossom  
District Superintendent

February 4, 1983

Mr. Joe D. Ramey  
New Mexico Oil Conservation Division  
P. O. Box 2088  
Santa Fe, NM 87501

File: DDL-83-400.1

Dear Mr. Ramey:

Application for Unorthodox Location  
Annie L. Elliott "B" No. 6E  
Basin Dakota Field  
San Juan County, New Mexico

Amoco Production Company hereby requests approval of our  
Annie L. Elliott "B" No. 6E at a location 590' FNL and  
650 FWL of Section 10, T29N, R9W, San Juan County, New Mexico.

The attached Form C-102 illustrates the topographical problems  
encountered in selecting a suitable well site.

There are no offset lease holders or offset operators of  
Basin Dakota wells.

Very truly yours,

*S. D. Blossom*  
~~Original Signed By~~  
D.D. LAWSON

RPM/mp

Attachment

cc: ✓ New Mexico Oil Conservation Commission  
1000 Rio Brazos Road  
Aztec, NM 87410

**RECEIVED**  
FEB 8 - 1983  
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DIST. 3

Amoco Production Company

Amoco Production Company  
10000 West Alameda  
Denver, Colorado 80231  
303-755-8000



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Amoco Production Company

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AMOCO PRODUCTION COMPANY

AMOCO PRODUCTION COMPANY



## OIL CONSERVATION DIVISION

STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENTP. O. BOX 2088  
SANTA FE, NEW MEXICO 87501Form C-107  
Revised 10-1-78

All distances must be from the outer boundaries of the Section.

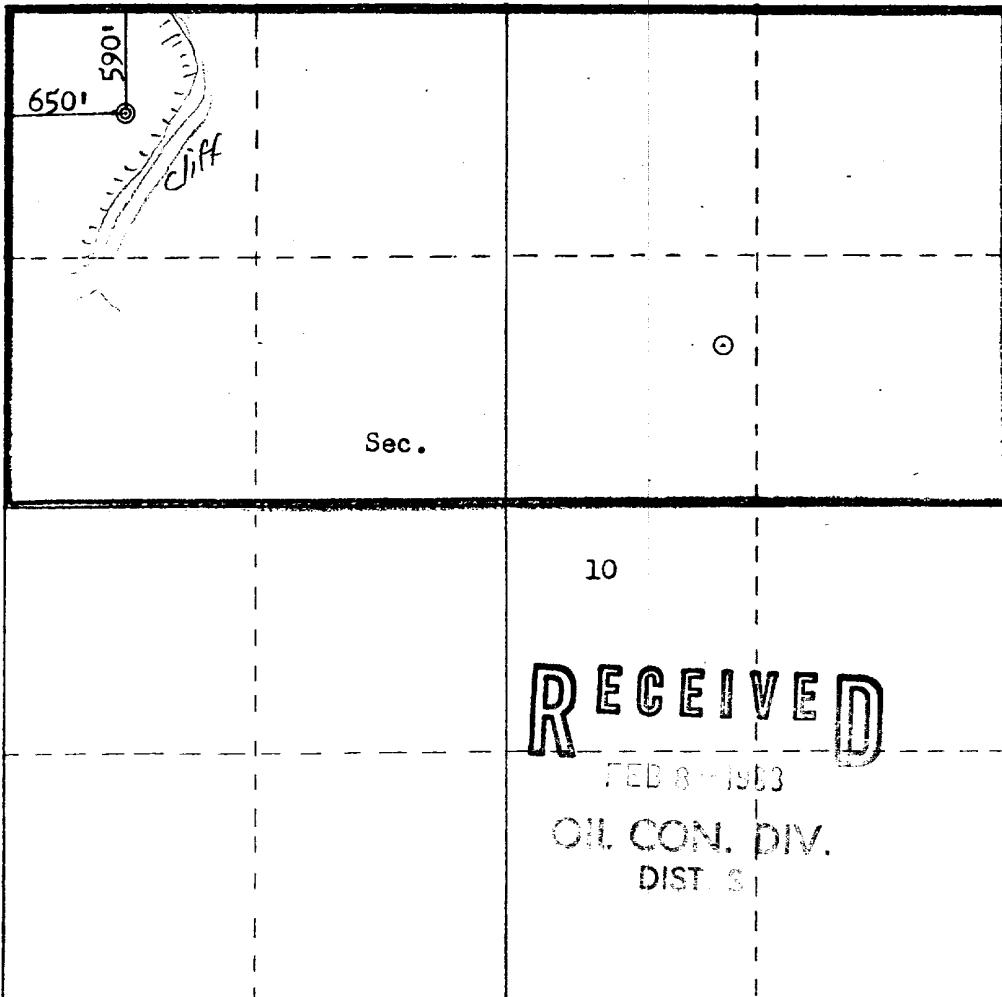
Operator <b>AMOCO PRODUCTION COMPANY</b>			Lease <b>ANNIE L. ELLIOTT "B"</b>		Well No. <b>6E</b>
Unit Letter <b>D</b>	Section <b>10</b>	Township <b>29N</b>	Range <b>9W</b>	County <b>San Juan</b>	
Actual Footage Location of Well: <b>590</b> feet from the <b>North</b> line and <b>650</b> feet from the <b>West</b> line					
Ground Level Elev: <b>5816</b>	Producing Formation <b>Dakota</b>		Pool <b>Basin Dakota</b>		Dedicated Acreage: <b>320</b> Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests 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 interests, has been approved by the Commission.

	<p>10</p> <p><b>RECEIVED</b></p> <p>FEB 8 1983</p> <p>OIL CON. DIV.</p> <p>DIST 3</p>
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Scale: 1"=1000'

## CERTIFICATION

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

*Dale H. Shoemaker*

Name  
**D. H. SHOEMAKER**

Position  
**DISTRICT ENGINEER**

Company  
**AMOCO PRODUCTION COMPANY**

Date  
**JANUARY 11, 1983**

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  
**December 22, 1982**

Registered Professional Engineer  
and Land Surveyor

*Fred B. Kerr Jr.*  
**Fred B. Kerr Jr.**

Certificate No. **3950**



STATE OF NEW MEXICO  
**ENERGY AND MINERALS DEPARTMENT**  
OIL CONSERVATION DIVISION

February 14, 1983

TONY ANAYA  
GOVERNOR

D-10-22-9  
POST OFFICE BOX 2088  
STATE LAND OFFICE BUILDING  
SANTA FE, NEW MEXICO 87501  
(505) 827-5800

Amoco Production Company  
Petroleum Center Building  
501 Airport Drive  
Farmington, New Mexico 87401

Attention: S. D. Blossom

Administrative Order NSL-1656

Gentlemen:

Reference is made to your application for a non-standard location for your Annie L. Elliott "B" Well No. 6E located 590 feet from the North line and 650 feet from the West line of Section 10, Township 29 North, Range 9 West, NMPM, Basin Dakota Field, San Juan County, New Mexico.

By authority granted me under the provisions of Rule 3 of Order No. R-1670, the above-described unorthodox location is hereby approved.

Sincerely,

  
JOE D. RAMEY,  
Director

JDR/RLS/dr

cc: Oil Conservation Division - Aztec  
Oil & Gas Engineering Committee - Hobbs

**RECEIVED**  
MAY 6 - 1983  
OIL CON. DIV.  
DIST. 3

TABULATION OF DEVIATION TESTS  
Anne L. Elliott B No. 6E  
AMOCO PRODUCTION COMPANY

<u>DEPTH</u>	<u>DEVIATION</u>
300'	1/4°
814'	2-1/2°
1000'	2-1/4°
1155'	2-1/4°
1626'	3/4°
1990'	1-1/8°
2600'	1-1/4°
2990'	1°
4113'	1/4°

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FEB 16 1984  
OIL CON. DIV.  
DIST. 3

A F F I D A V I T

THIS IS TO CERTIFY that to the best of my knowledge the above tabulation details the deviation tests taken on AMOCO PRODUCTION COMPANY'S Anne L. Elliott "B" No. 6E, NW/NW, Sec. 10, T29N, R9W, San Juan County, New Mexico.

Signed Darrell D. Lawson

Title Dist. Adm. Supervisor

THE STATE OF NEW MEXICO) )  
COUNTY OF SAN JUAN ) SS.

BEFORE ME, the undersigned authority, on this day personally appeared Darrell D. Lawson known to me to be District Administrative Supervisor for Amoco Production Company and to be the person whose name is subscribed to the above statement, who, being by me duly sworn on oath, states that he has knowledge of the facts stated herein and that said statement is true and correct.

SUBSCRIBED AND SWORN to before me, a Notary Public in and for said County and State this 14th day of February, 1984.

Gleaner T. Brown  
Notary Public

My Commission Expires: December 28, 1987