



OIL CONSERVATION DIVISION
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Amoco Production Company

September 2, 1993

Mr. William J. LeMay, Director
New Mexico Oil Conservation Division
PO Box 2088
Santa Fe, New Mexico 87504

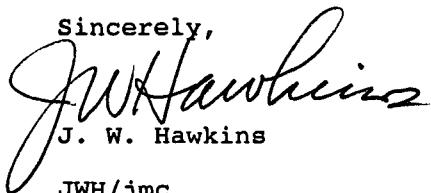
Southern Rockies Business Unit
Amoco Building
1670 Broadway
Post Office Box 800
Denver, Colorado 80201
303-830-4040

File: CAW-237-986.511

Application for Unorthodox Location
Barnes B #9M Well
SW/4 Section 13-T32N-R11W
Basin Dakota Pool and Blanco Mesaverde Pool
San Juan County, New Mexico

Amoco Production Company hereby requests administrative approval for an unorthodox location in the Basin Dakota Pool and Blanco Mesaverde Pool. Amoco proposes to drill the Barnes B #9M Well at a location 1255' FSL and 670' FWL of Section 13. This will be a dual Dakota/Mesaverde well and will replace the Barnes B #9 well which will be plugged back and abandoned in the Mesaverde formation. We will be utilizing an existing wellpad since we are limited by the archeological conditions in the area. This spacing unit is in the S/2 Section 13, T32N-R11W. The offset operators will receive a copy of the application by certified mail with a request that they furnish your Santa Fe office with a waiver of objection and return one copy to Amoco.

Sincerely,


J. W. Hawkins

JWH/jmc

cc: Julie Acevedo

Frank Chavez, Supervisor
NMOCD District III
1000 Rio Brazos Rd.
Aztec, NM 87410

WAIVER

_____ hereby waives objection to Amoco's application for unorthodox well location for the Barnes B #9M Well in the Basin Dakota Pool and Blanco Mesaverde Pool as proposed above.

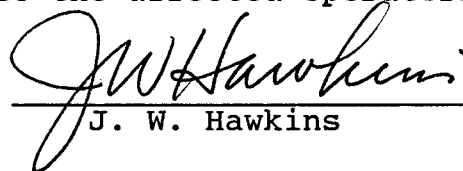
By: _____ Date: _____

VERIFICATION AND AFFIDAVIT

STATE OF COLORADO)
) ss
COUNTY OF DENVER)

J. W. Hawkins, of lawful age, being first duly sworn on his oath, deposes and says:

That he is employed in an engineering capacity by Amoco Production Company in its Denver, Colorado office; that he has been qualified as an expert engineering witness by the New Mexico Oil Conservation Division and his qualifications have been made of record; that Amoco's application for administrative approval for unorthodox location for the Barnes B #9M well in the Basin Dakota Pool and Blanco Mesaverde Pool, San Juan County, New Mexico was prepared under his direction and supervision; that the matter and things therein set forth are true and correct to the best of his knowledge and beliefs. Copies of the application have been mailed by certified mail to the affected operators.



J. W. Hawkins

Subscribed and sworn to before me this 2nd day of September, 1993.



Notary Public

My Commission expires: 4-7-94

Amoco Production Company

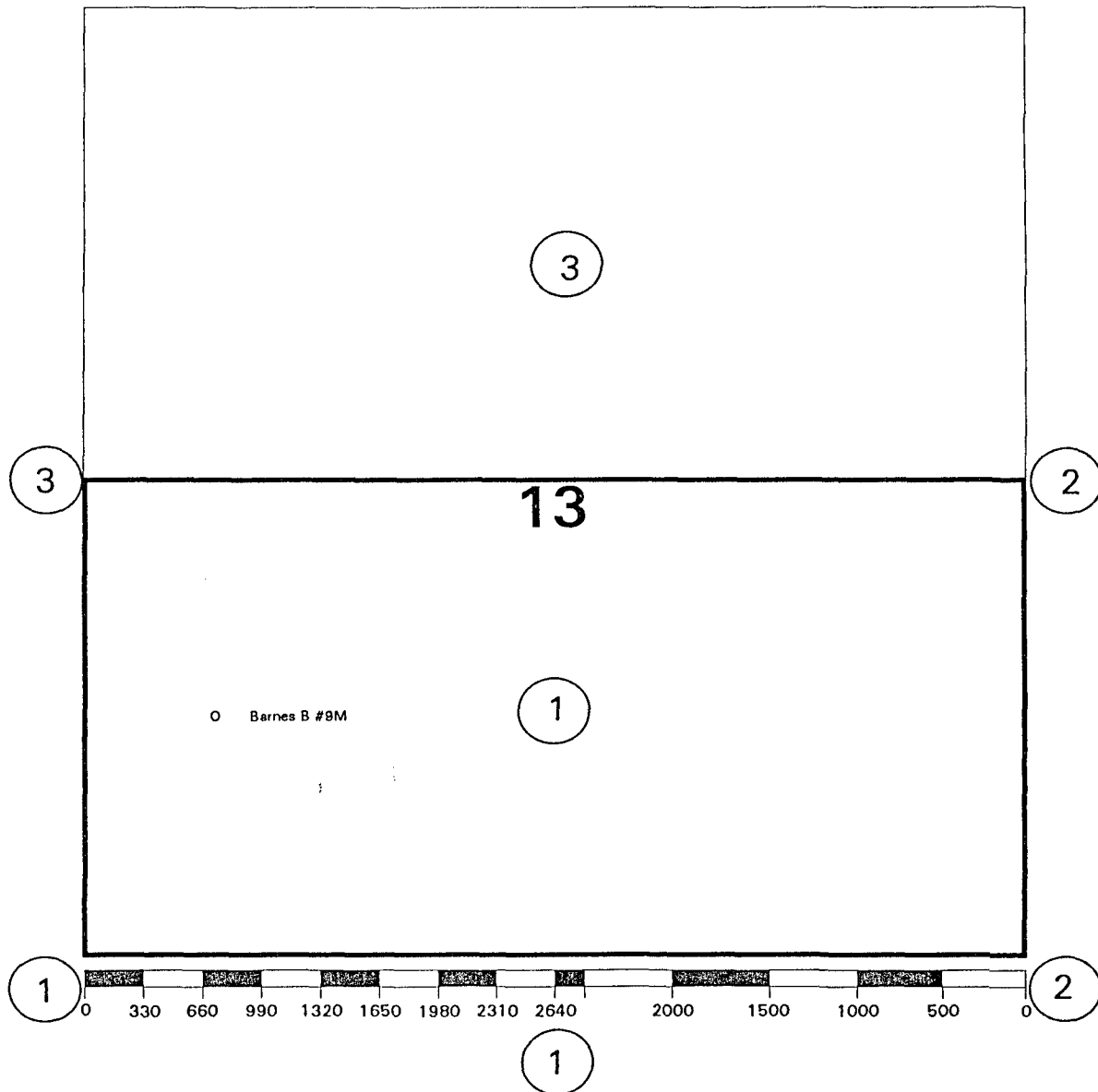
Offset Operator Plat

Barnes B #9M

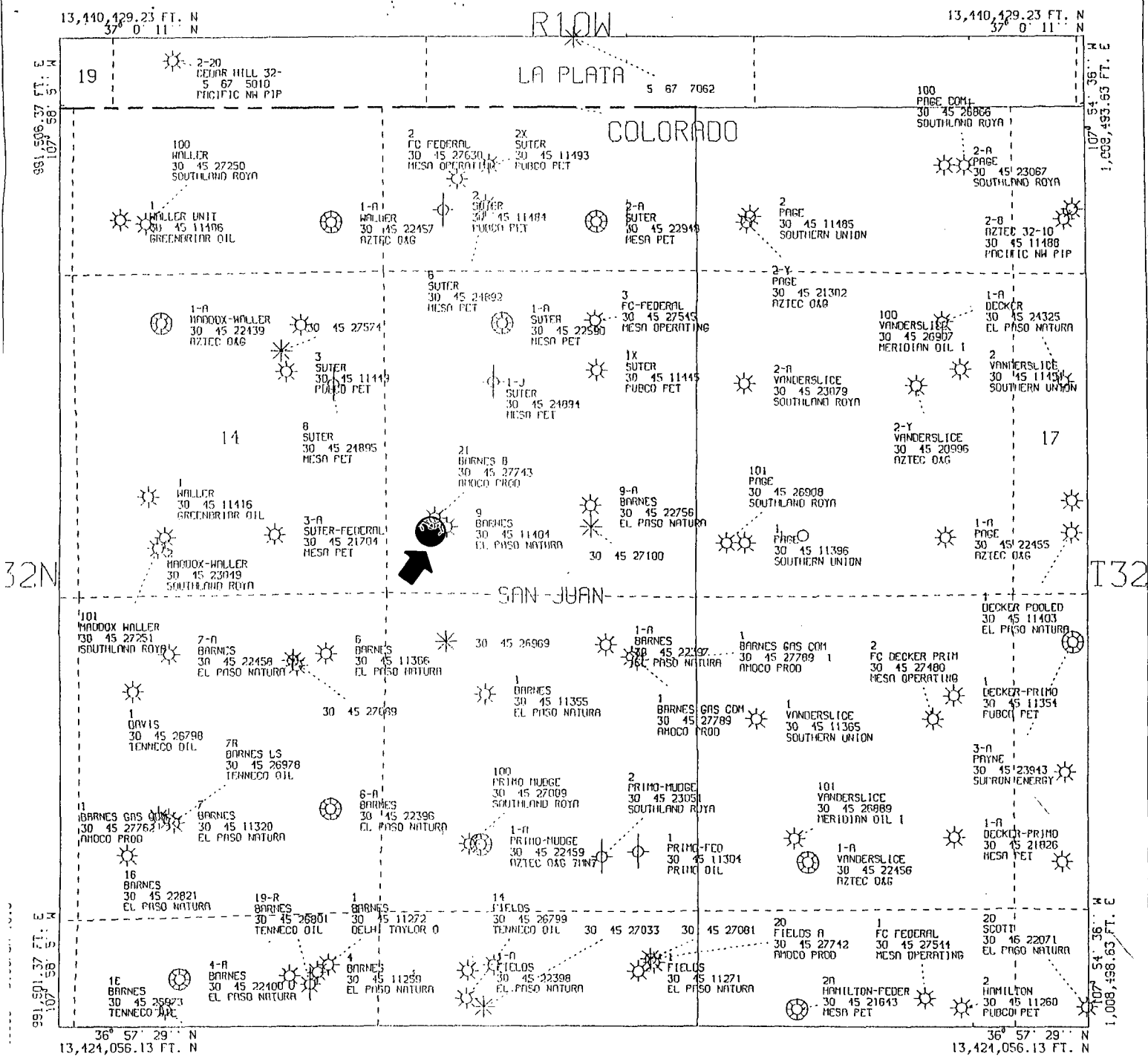
Township 32North - Range 11West

1255' FSL, 670' FWL Sec. 13

Blanco Mesaverde/ Basin Dakota Formation



1. Amoco Production Company, P.O. Box 800, Denver, Co. 80201
2. Meridian Oil Prod., P.O. Box 4289, Farmington, NM 87499
3. Conoco Inc., 10 Desta Dr. #100W, Midland, TX 79705-4500



All geological and geophysical data, including the interpretation thereof, appearing on this map is the private and confidential property of Amoco Production Company. The publication or reproduction thereof without the written permission of said Company is strictly prohibited.

AMOCO PRODUCTION COMPANY
BARNES B #9M
SEC 13-T32N-R11W
SAN JUAN NM

SCALE 1 IN. = 2,000 FT. AUG 13, 1993

HORIZONTAL DATUM NAD27

:LV225AA--RUN=93225!22225

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 Barnes B		Well No. #9M
Unit Letter M	Section 13	Township 32 NORTH	Range 11 WEST	County SAN JUAN	
Actual Footage Location of Well: 1255 feet from the SOUTH line and 670 feet from the WEST line					
Ground level Elev. 6223	Producing Formation Basin Dakota		Pool Basin Dakota	Dedicated Acreage: S/2 320 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.

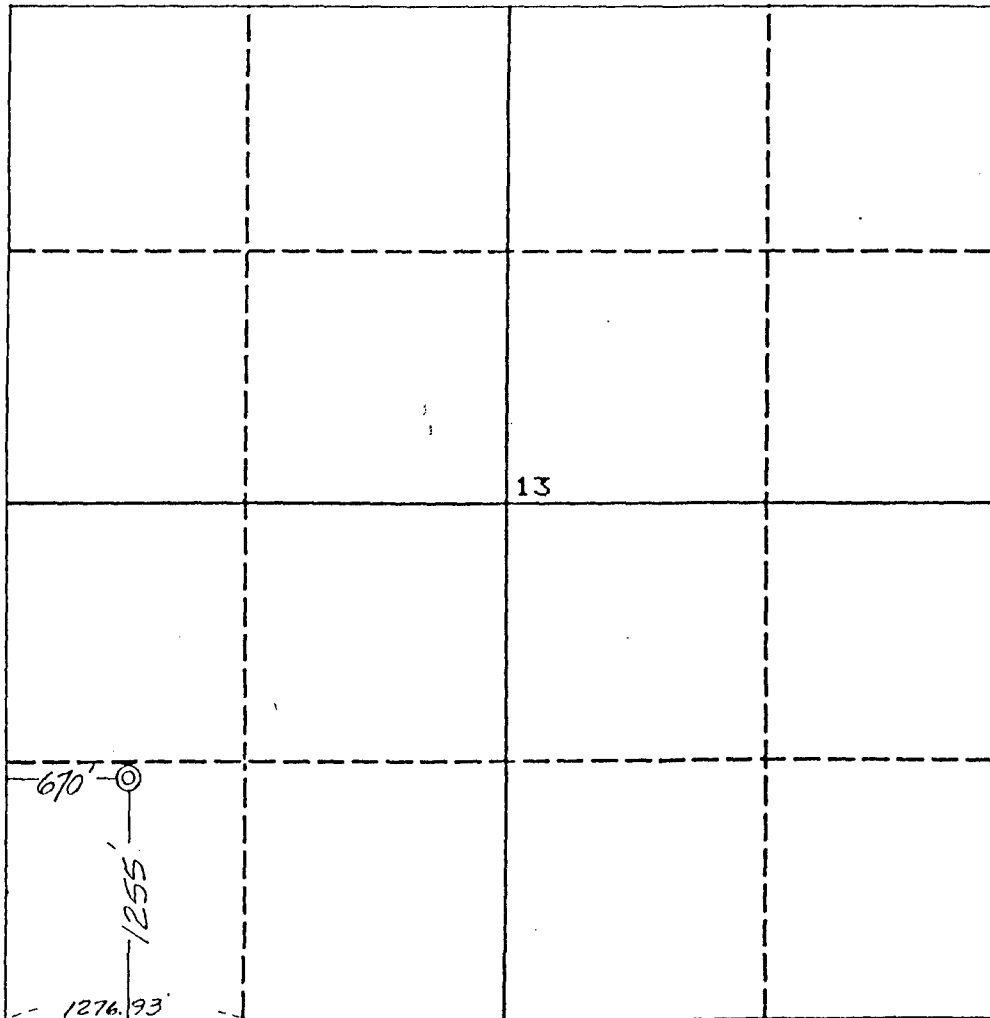
Signature *Julie L. Acevedo*
Printed Name **Julie L. Acevedo**
Position **Sr. Staff Assistant**
Company **Amoco Production Company**
Date **8/13/93**

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
August 3, 1993

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



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 Barnes B		Well No. #9M
Unit Letter M	Section 13	Township 32 NORTH	Range 11 WEST	County SAN JUAN	

Actual Footage Location of Well:

1255 feet from the **SOUTH** line and **670** feet from the **WEST** line

Ground level Elev. 6223	Producing Formation Blanco Mesaverde	Pool Blanco Mesaverde	Dedicated Acreage: S/2 320 Acres
-----------------------------------	--	---------------------------------	--

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure 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 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 *Julie L. Acevedo*
Printed Name **Julie L. Acevedo**
Position **Sr. Staff Assistant**
Company **Amoco Production Company**
Date **8/13/93**

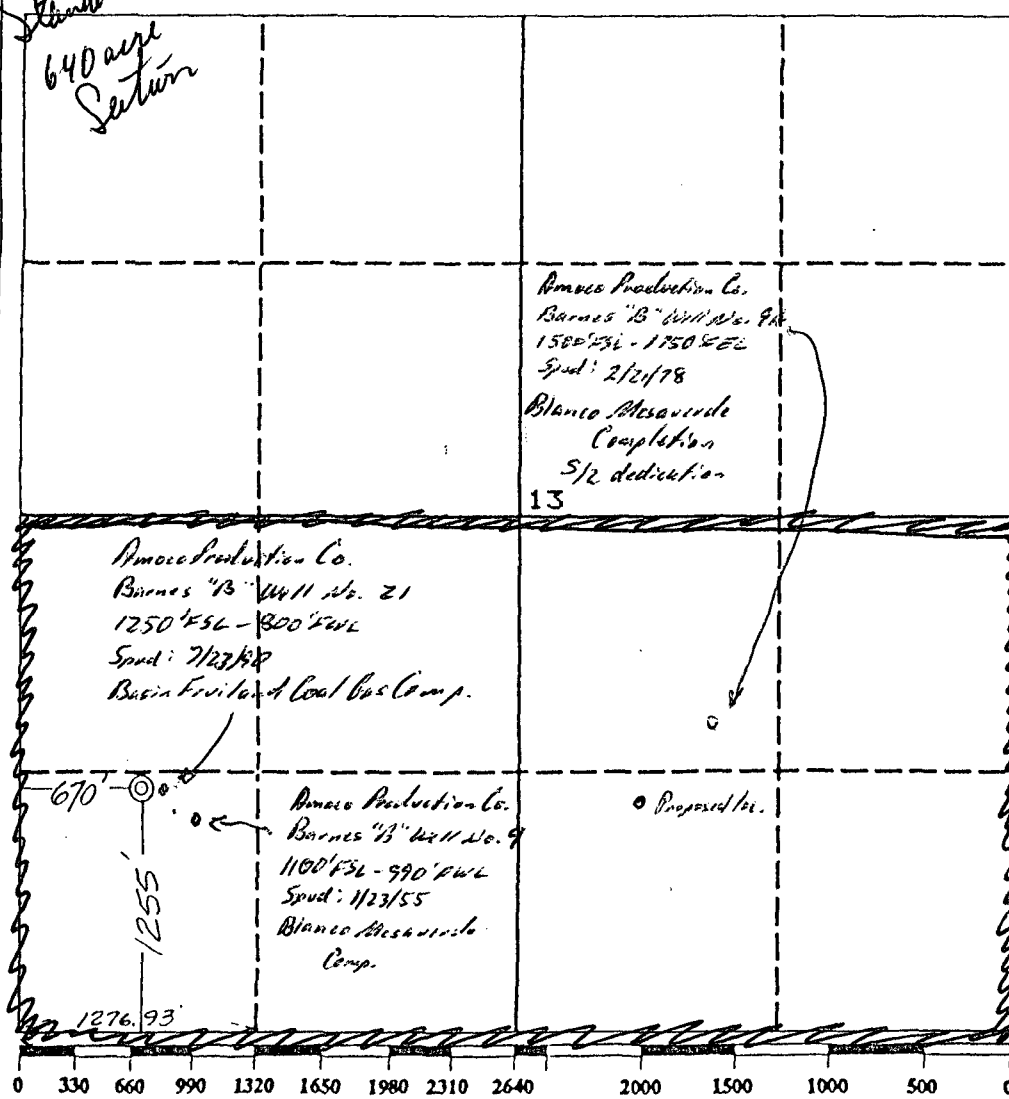
SURVEYOR CERTIFICATION

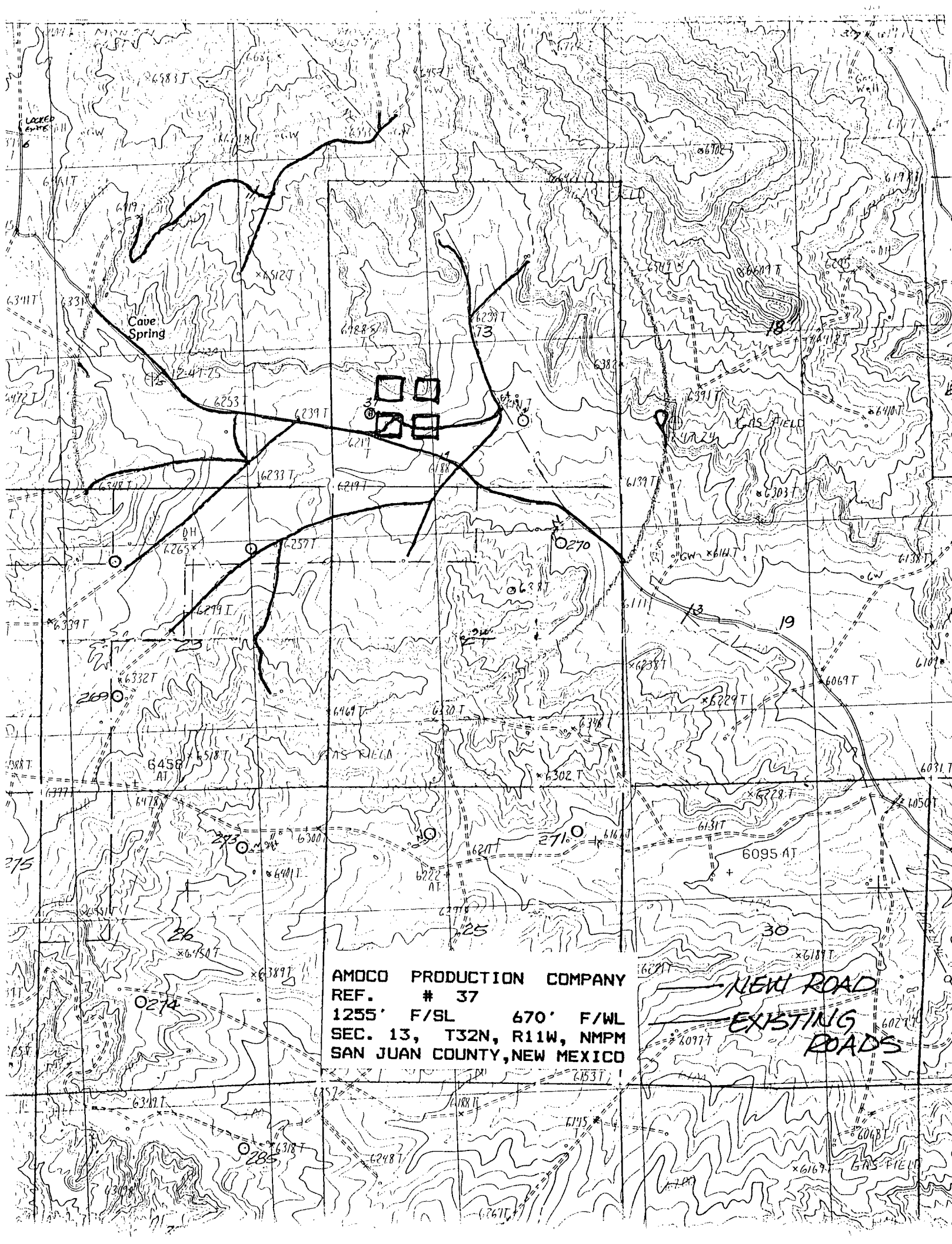
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed
August 3, 1993

Signature & Seal of
Professional Surveyor

GARY D. VANN
NEW MEXICO
REGISTERED PROFESSIONAL LAND SURVEYOR
7016





AMOCO PRODUCTION COMPANY
REF. # 37
1255' F/SL 670' F/WL
SEC. 13, T32N, R11W, NMPM
SAN JUAN COUNTY, NEW MEXICO

NEW ROAD
EXISTING
ROADS

Project no. 93-123

Cultural Resource Use Permit
97-2920-93-D (NM BLM)

An Archaeological Survey
of a Proposed Well Pad Ref #37
San Juan County, New Mexico
T32N, R11W, Section 13
1265'FSL, 670'FWL

for
Amoco Production

prepared and submitted

by
John M. Kershner

Arboles Contract Archaeology

August 18, 1993

Technical report No. 309

Abstract

On August 3, 1993, Arboles Contract Archaeology completed a cultural resources survey of the proposed well pad Ref #37 for Amoco Production. The survey is located north of Aztec, San Juan County, New Mexico and is under the jurisdiction of the Bureau of Land Management. Approximately 7.8 acres were closely inspected for cultural resources.

John Kershner, ACA archaeologist, surveyed the project areas for archaeological material.

A single isolate was recorded during the survey of the proposed well pad. No other archaeological material was encountered during the survey. Recordation of the isolate has exhausted its research potential. Archaeological clearance is recommended for the proposed well pad.

Introduction

On August 3, 1993 Arboles Contract Archaeology (ACA) conducted an archaeological survey for Amoco Production of Farmington, New Mexico. Glen Benfield of G and L Services requested the survey on July 28, 1993 and John Schwarz administered the project for Amoco Production. John Kershner administered the project for ACA.

Because of the finite and nonrenewable extent of archaeological remains, the Federal government of the United States has enacted legislation that will conserve and protect these resources. Key legislative enactments consist of the Antiquities Act of 1906 (PL 52-209), the Historic Preservation Act of 1966 (PL 89-655) and as amended (PL 96-515), the National Environmental Act of 1969 (PL 91-852), the 1971 Executive Order No. 11593, the Archaeological and Historical Conservation Act of 1974 (PL 93-291), and the Archaeological Resources and Protection Act of 1979 (PL 96-95). To ensure compliance with federal legislation within specific jurisdictional areas, the Navajo Nations and the states of New Mexico, Arizona, Colorado and Utah have enacted legislation to protect cultural resources.

Methods

The project area was completely surveyed employing straight line transects spaced 5-8m apart. The projects consisted of a primary impact area around the well head, a construction zone of 50 feet around the primary impact area, and a cultural resource buffer zone of 100 feet around the construction zone. All archaeological and relevant environmental data were recorded under the guidelines defined by the lead agency on the project area. Archaeological sites were recorded using a Brunton compass and a 30m and 3m tapes.

Previously Recorded Sites

Prior to the cultural resources survey of the project areas, a records search was conducted at the Bureau of Land Management (BLM) Farmington Resource Area office to identify sites that may have been previously recorded within the project area.

The records search on July 28, 1993 yielded 46 sites within one mile of the surveyed area and, of those sites, seven are within 1000' of the outside of the proposed well pad's buffer zone.

NM-01:	site type	distance from outside of buffer zone
36541	BMIII-PII village	500'
36542	BMIII-PI hamlet	100'
36544	BMIII-PI multiple habitation	450'
36561	BMIII-PII village	800'
36603	PII artifact scatter	075'
38001	PI multiple habitation	200'
38002	PI multiple habitation	500'

Project Description

Proposed Well Pad Ref #37:

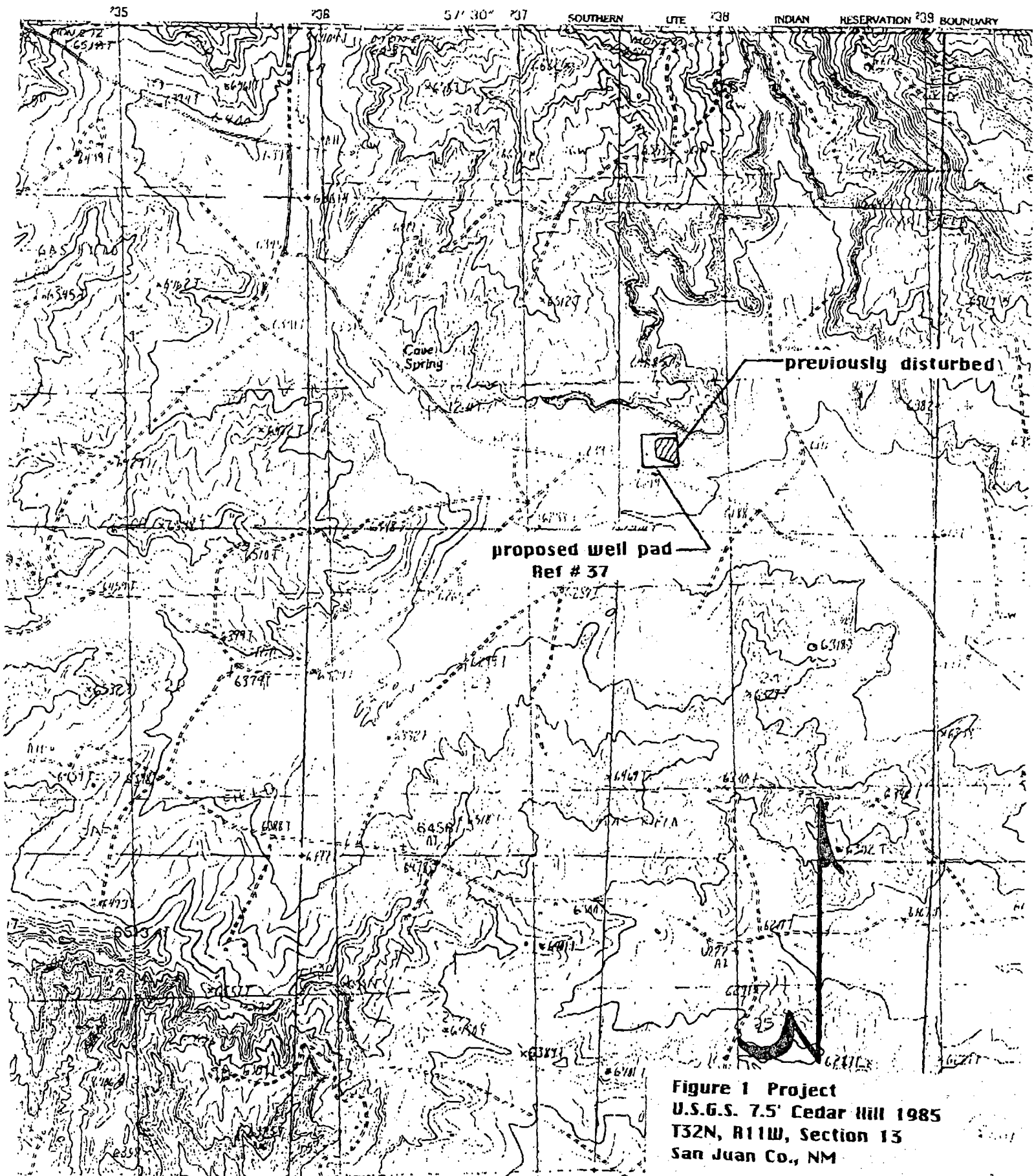
Legal Description:

T32N, R11W, Section 13; 1265'FSL, 670'FWL

S 1/2 NW1/4 SW1/4

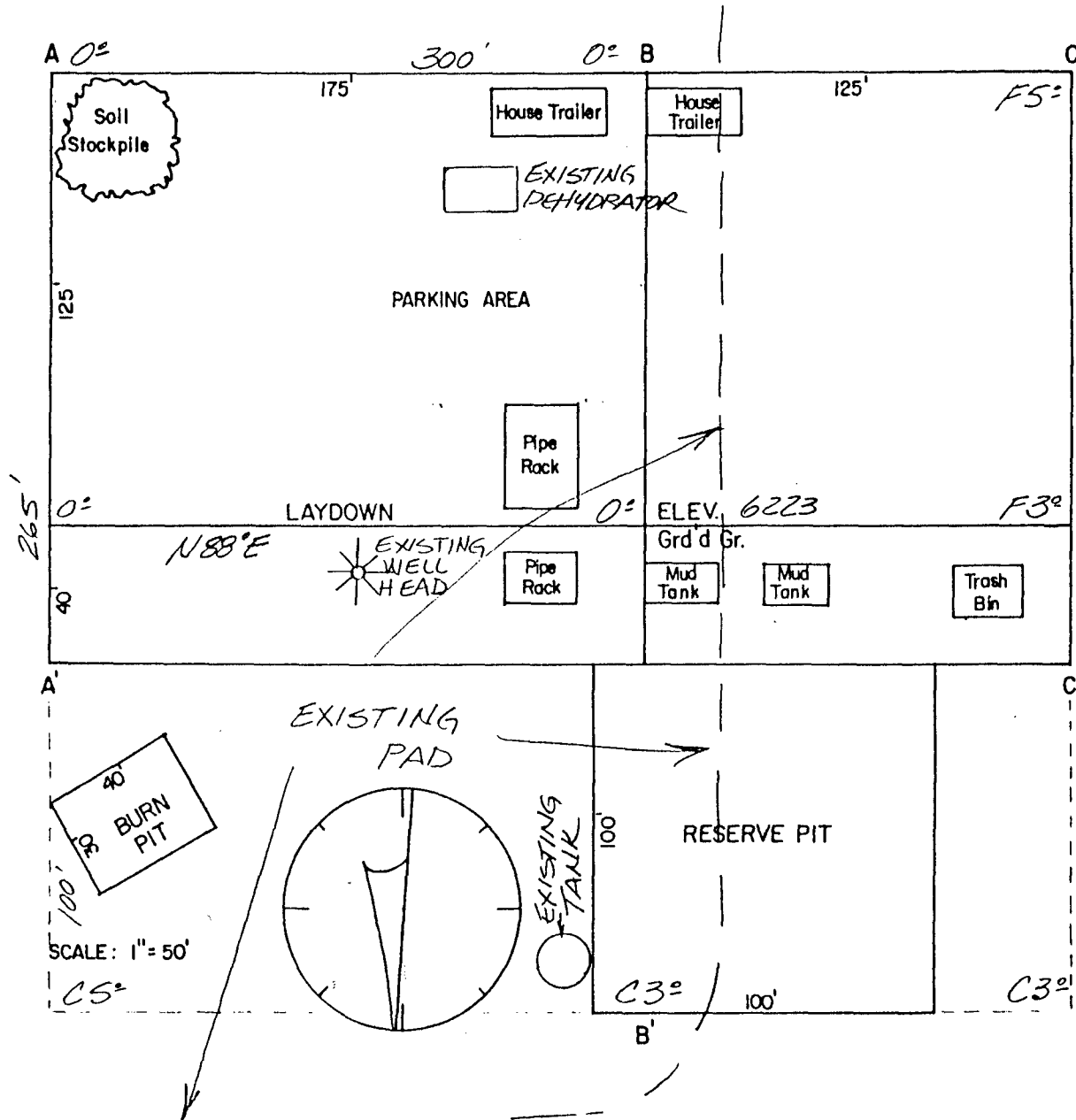
N 1/2 SW1/4 SW1/4

N.M.P.M., San Juan County, New Mexico



PROFILE FOR
 AMOCO PRODUCTION COMPANY
 REF. # 37
 1255' F/SL 670' F/WL
 SEC. 13, T32N, R11W, NMPM
 SAN JUAN COUNTY, NEW MEXICO

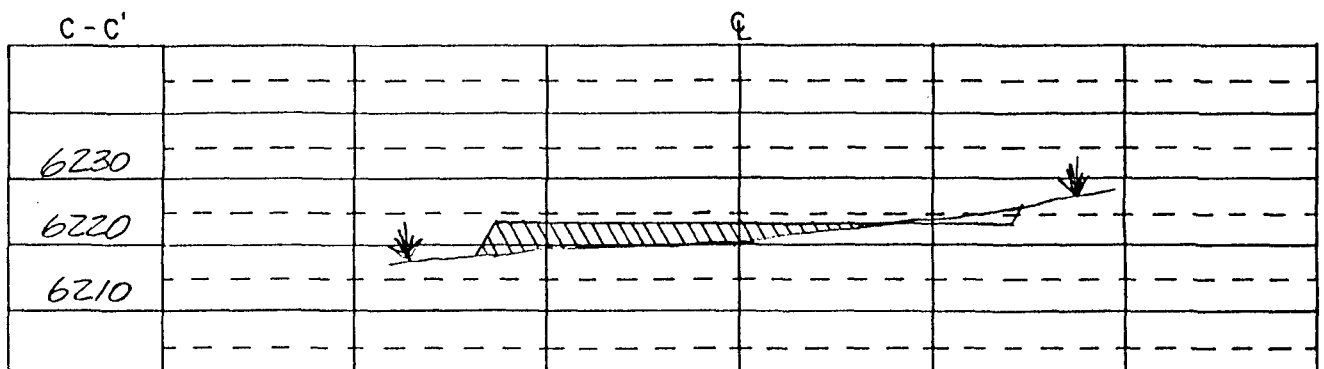
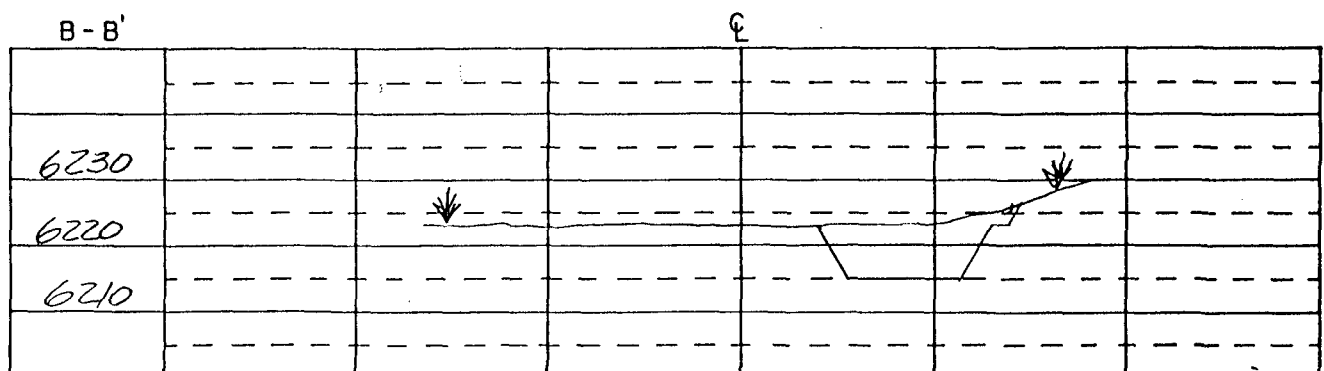
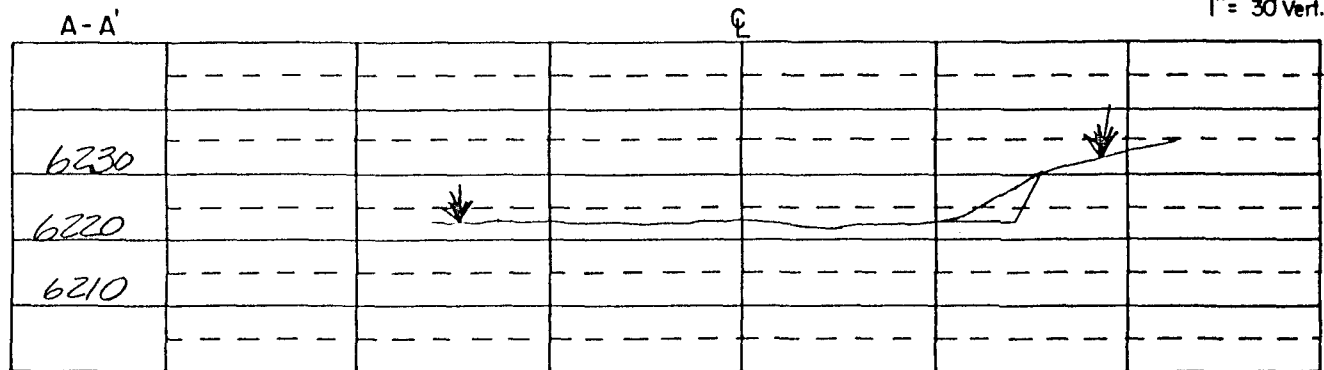
EXHIBIT "D"

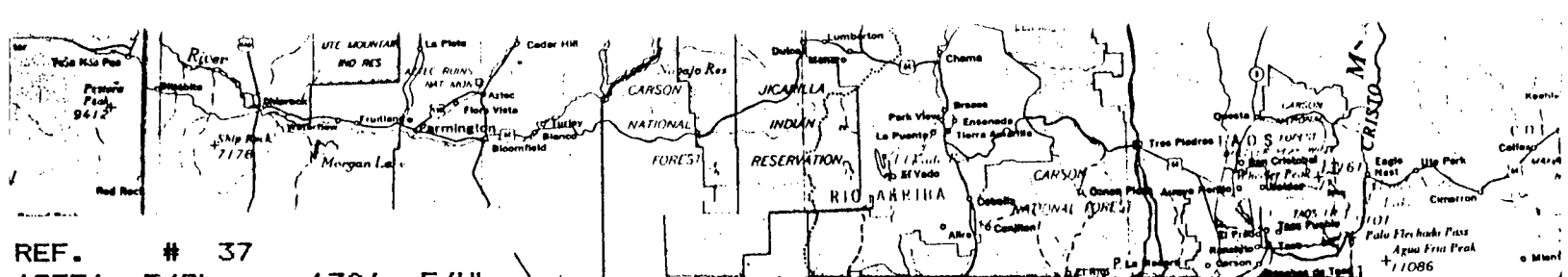


NOTE: Contractor should call 1-800-321-2537 for location of any marked or unmarked buried pipelines or cables on well pad and/or access road at least 2 days prior to construction.

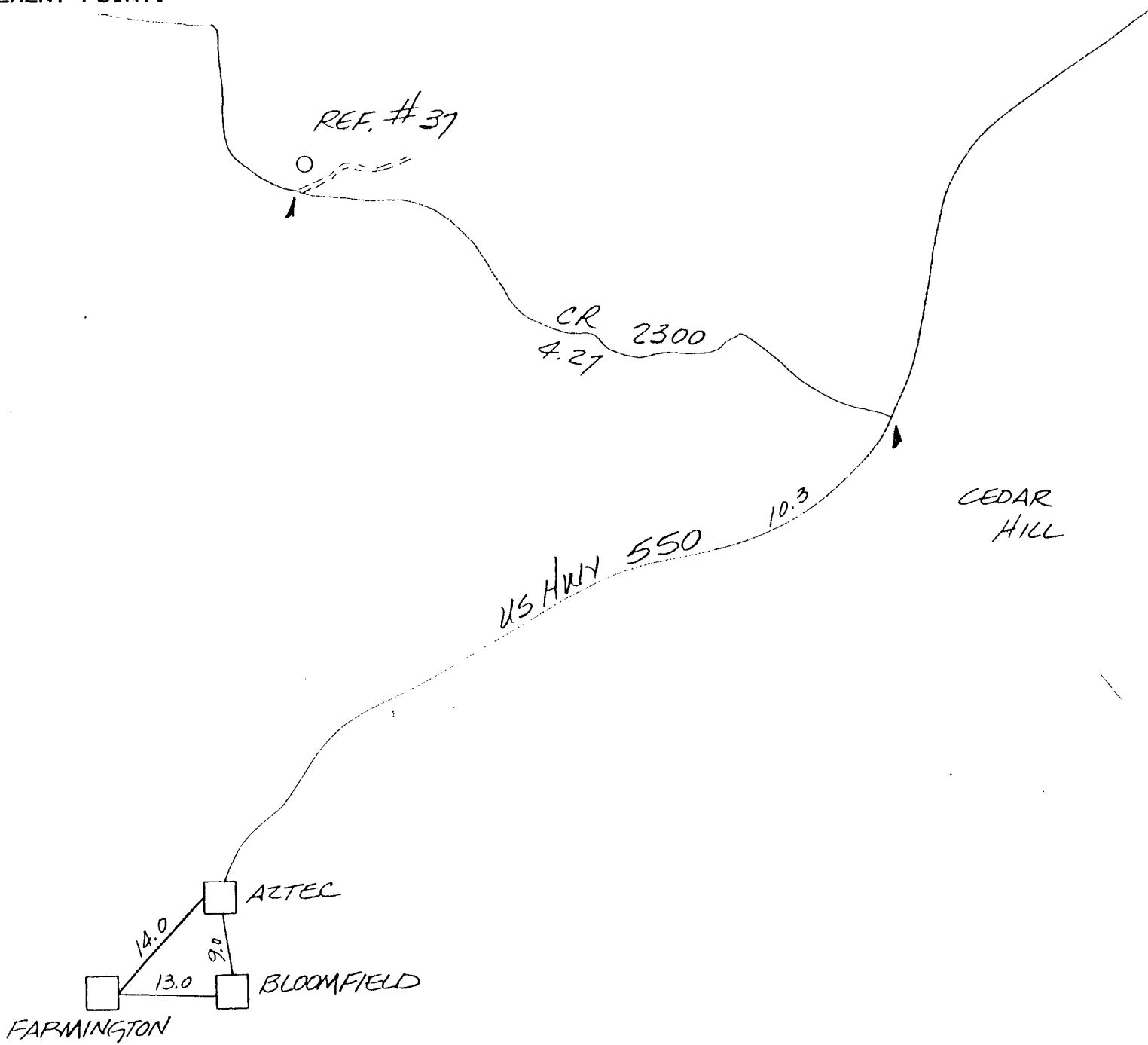
AMOCO PRODUCTION COMPANY
 REF. # 37
 1255' F/SL 670' F/WL
 SEC. 13, T32N, R11W, NMPM
 SAN JUAN COUNTY, NEW MEXICO

SCALE: 1" = 100' Horiz.
 1" = 30' Vert.





REF. # 37
1255' F/SL 670' F/WL
SEC. 13, T32N, R11W, NMPM
RAIL POINT:
MUD POINT:
CEMENT POINT:





OIL CONSERVATION DIVISION
RECEIVED

Amoco Production Company

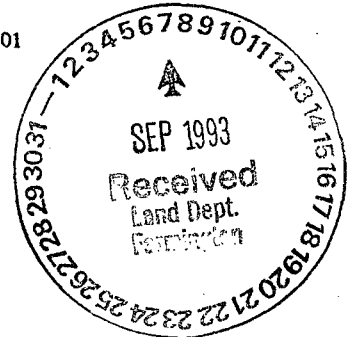
Southern Rockies Business Unit
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303-830-4040

September 2, 1993

Mr. William J. LeMay, Director
New Mexico Oil Conservation Division
PO Box 2088
Santa Fe, New Mexico 87504

File: CAW-237-986.511

Application for Unorthodox Location
Barnes B #9M Well
SW/4 Section 13-T32N-R11W
Basin Dakota Pool and Blanco Mesaverde Pool
San Juan County, New Mexico



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Sincerely,

JWH
J. W. Hawkins

JWH/jmc

cc: Julie Acevedo

Frank Chavez, Supervisor
NMOCD District III
1000 Rio Brazos Rd.
Aztec, NM 87410

WAIVER

Meridian Oil Inc. hereby waives objection to Amoco's application for unorthodox well location for the Barnes B #9M Well in the Basin Dakota Pool and Blanco Mesaverde Pool as proposed above.

By:

John F. [Signature]

Date:

September 10, 1993



CONSERVATION DIVISION
RECEIVED

STATE OF NEW MEXICO

ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

AZTEC DISTRICT OFFICE

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

Date: 9-7-93

Attn: Mike Stogner

Oil Conservation Division
P.O. Box 2088
Santa Fe, NM 87504-2088

RE: Proposed MC _____
Proposed NSL 8 _____
Proposed WFX _____
Proposed NSP _____

Proposed DHC _____
Proposed SWD _____
Proposed PMX _____
Proposed DD _____

Gentlemen:

I have examined the application received on 9-7-93

for the Amoco
OPERATOR

Barnes B # 9H
LEASE & WELL NO.

UL-13-32N-1H and my recommendations are as follows:
UL-S-T-R

Approve

Yours truly,

Gene Bush