



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON

Governor

Jennifer A. Salisbury
Cabinet Secretary

September 24, 2001

Lori Wrotenbery

Director

Oil Conservation Division

XTO Energy, Inc.
810 Houston Street
Fort Worth, Texas 76102-6298
Attention: Tim Welsh

Telefax No. (817) 885-2224

Administrative Order NSL-4645(NSBHL)

Dear Mr. Welsh:

Reference is made to the following: (i) your application dated August 13, 2001 (*application reference No. pKRV0-122730120*); (ii) a request for additional information by letter dated September 17, 2001 from Mr. Michael E. Stogner, Chief Hearing Officer/Engineer, with the New Mexico Oil Conservation Division ("Division") in Santa Fe; (iii) your telefaxed response with the required information on September 20, 2001; and (iv) the records of the Division in Aztec and Santa Fe, including the file on Division Administrative Order DD-98: all concerning XTO Energy, Inc.'s ("XTO") request for an unorthodox subsurface Nocimiento gas well location for the existing Carson Federal "G" Well No. 1 (API No. 30-039-25444), located at the surface 1540 feet from the North line and 2630 feet from the East line (Unit G) of Section 25, Township 28 North, Range 4 West, NMPM, Rio Arriba County, New Mexico.

By Division Administrative Order DD-98, dated August 22, 1994, Amoco Production Company received authorization, which was required at that time, to directionally drill the Carson Federal "G" Well No. 1 to the Choza Mesa-Pictured Cliffs pool in such a manner that the resulting subsurface location would be "standard" for a gas well within a standard 160-acre gas spacing and proration unit comprising the NE/4 of Section 25.

It is our understanding that XTO now intends to abandon the Pictured Cliffs interval and recompleat up-hole into the Nocimiento formation through the perforated interval from 3,225 feet to 3,232 feet. From the directional survey the actual subsurface location of this wellbore at a depth of 3,225 feet is 1662 feet from the North line 2253 feet from the East line (Unit G) of Section 25, which pursuant to Division Rules 104.C (3) and 111.A (13) is considered to be "unorthodox" within a standard 160-acre gas spacing and proration unit for the wildcat Nocimiento formation comprising the NE/4 of Section 25.

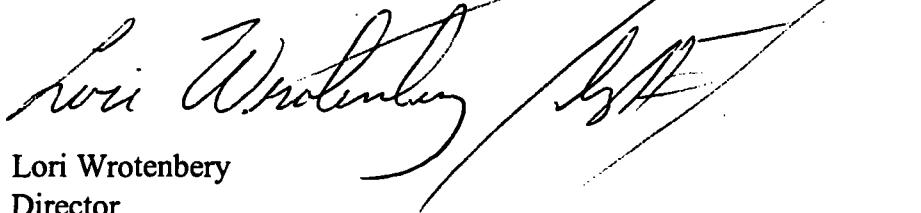
This application has been duly filed under the provisions of Division Rules 104.F, revised by Division Order No. R-11231, issued by the New Mexico Oil Conservation Commission in Case No. 12119 on August 12, 1999, and 111.C (2).

Administrative Order NSL-4645(NSBHL)
XTO Energy, Inc.
September 24, 2001
Page 2

By the authority granted me under the provisions of Division Rule 104.F (2), the above-described unorthodox subsurface Nocimiento gas well location for the Carson federal "G" Well No. 1, is hereby approved.

Jurisdiction of this case is retained for the entry of such further orders as the Division may deem necessary.

Sincerely,

A handwritten signature in cursive script, appearing to read "Lori Wrotenbery", followed by a large, stylized flourish or mark.

Lori Wrotenbery
Director

LW/MES/kv

cc: New Mexico Oil Conservation Division - Aztec
U. S. Bureau of Land Management - Farmington
File: DD-98 /



STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION



BRUCE KING
GOVERNOR

ANITA LOCKWOOD
CABINET SECRETARY

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87504
(505) 827-5800

August 22, 1994

Amoco Production Company
P.o. Box 800
Denver, CO 80201

Attention: J.W. Hawkins

Administrative Order DD-98

Dear Mr. Hawkins:

Under the provisions of General Rule 111 (c), (d) and (e), Amoco Production Company made application to the New Mexico Oil Conservation Division on July 15, 1994, for authorization to directionally drill its proposed Carson Federal "G" Well No. 1, Rio Arriba County, New Mexico.

The Division Director Finds That:

- (1) The application has been duly filed under the provisions of Rule 111(d) and (e) of the Division General Rules and Regulations;
- (2) Satisfactory information has been provided that all offset operators have been duly notified;
- (3) The applicant has presented satisfactory evidence that all requirements prescribed in General Rule 111 will be met; and
- (4) No objections have been received within the waiting period prescribed by said rule.

IT IS THEREFORE ORDERED THAT:

(1) The applicant, Amoco Production Company, is hereby authorized to directionally drill its Carson Federal "G" Well No. 1, the surface location of which shall be 1540 feet from the North line and 2630 feet from the East line (Unit G) of Section 25, Township 28 North, Range 4 West, NMPM, San Juan County, New Mexico, by kicking off from the vertical at a depth of approximately 2162 feet, and drilling in such a manner as to bottom in the Choza Mesa-Pictured Cliffs Pool at a standard gas well location within the SW/4 NE/4 of said Section 25.

PROVIDED HOWEVER THAT prior to commencing directional drilling operations into said wellbore, the applicant shall establish the location of the kick-off point by means of a directional survey acceptable to the Division.

PROVIDED HOWEVER THAT during or upon completion of directional drilling operations, the applicant shall conduct an accurate wellbore survey from the kick-off point to total depth in order that the subsurface bottomhole location, as well as the wellbore's true depth and course, may be determined.

(2) The applicant shall notify the supervisor of the Aztec district office of the Division of the date and time said wellbore surveys are to be conducted so that they may be witnessed. The applicant shall further provide a copy of said wellbore surveys to the Santa Fe and Aztec offices of the Division upon completion.

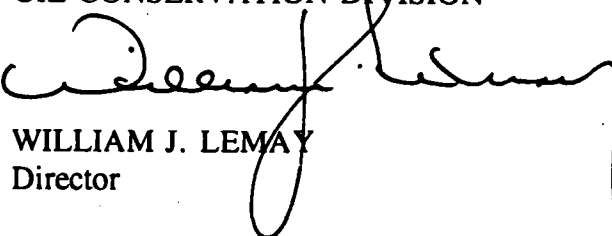
(3) Form C-105 shall be filed in accordance with Division Rule 1105 and the operator shall indicate thereon true vertical depth in addition to measured depths.

(4) The NE/4 of said Section 25 shall be dedicated to the well forming a standard 160-acre gas spacing and proration unit for the subject pool.

(5) Jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

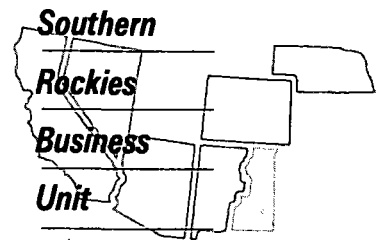
STATE OF NEW MEXICO
OIL CONSERVATION DIVISION


WILLIAM J. LEMAY
Director

S E A L

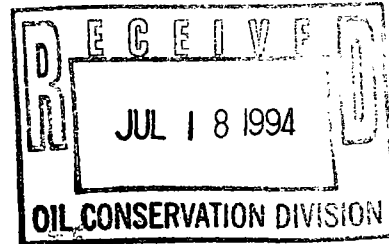
WJL/MES/amg

cc: Oil Conservation Division - Aztec
US Bureau of Land Management - Farmington



July 15, 1994

Mr. William J. LeMay, Director
New Mexico Oil Conservation Division
310 Old Santa Fe Trail
Santa Fe, NM 87504



**Application for Directional Drilling
Carson Federal G No.1 Well
NE/4 Section 25, T28N-R4W
Choza Mesa Pictured Cliffs Pool
Rio Arriba County, New Mexico**

Amoco Production Company hereby requests administrative approval to directionally drill the Carson Federal G No.1 well referenced above. The well is planned to be drilled from a surface location 1540' FNL and 2630' FEL of Section 25 to a bottomhole location of 1782' FNL and 1651' FEL of Section 25 T28N-R4W. The surface location is necessary due to the topography in this area. The well is planned to intercept the top of the Pictured Cliffs formation within the legal drilling window at 1750' FNL and 1797' FEL of Section 25 T28N-R4W. Attached are plats and directional plan for the well.

All offset operators will receive a copy of this application by certified mail with a request for a waiver of objection.

Sincerely,

JW Hawkins
J. W. Hawkins

cc: Andy Logan
Julie Talbot

WAIVER

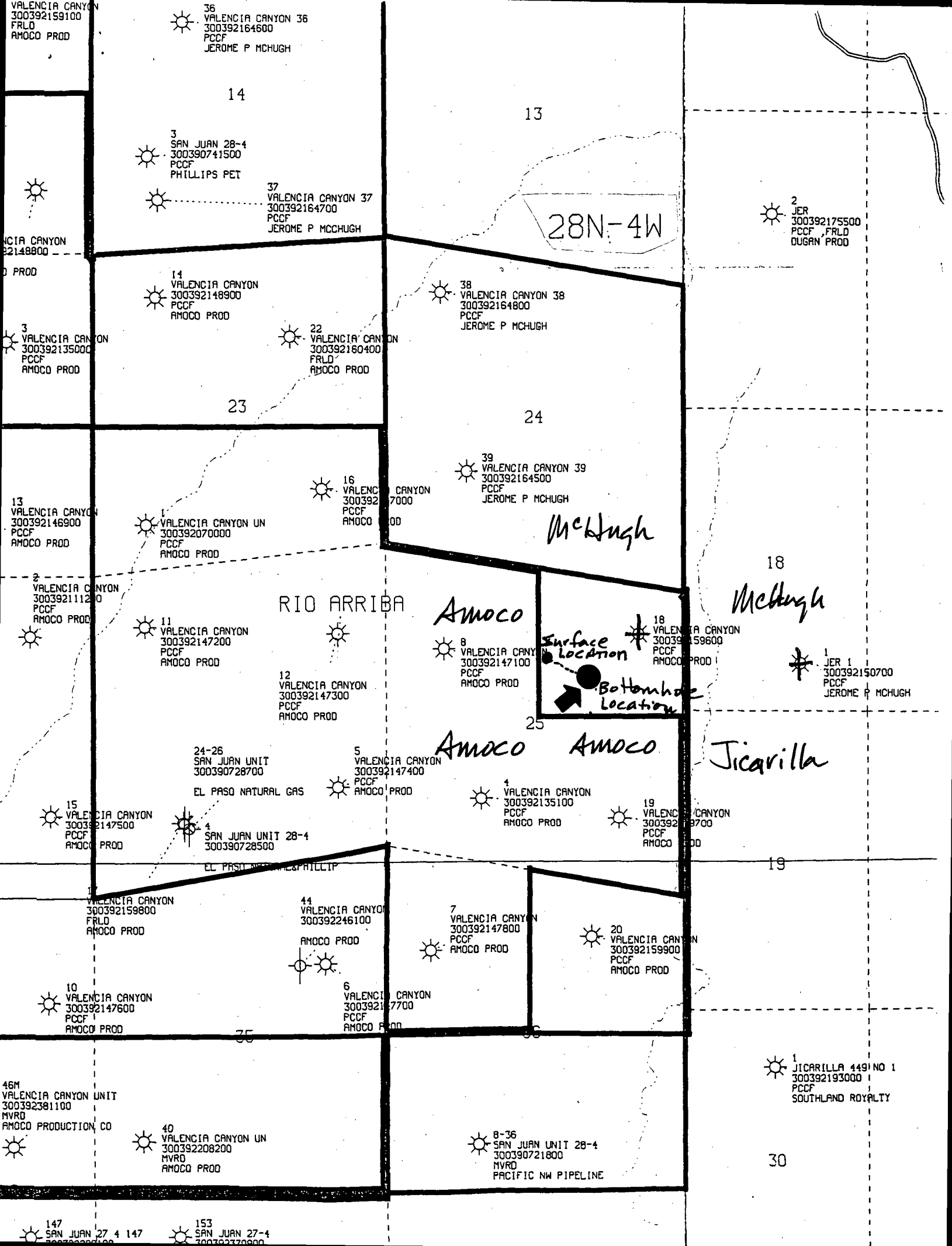
_____ hereby waives objection to Amoco's application to directionally drill the Carson Federal G No.1 well as proposed above.

By: _____ Date: _____

Offset Operators

**Jerome P McHugh
650 S. Cherry St., Suite 1225
Denver, CO 80222-1894**

**Bureau of Indian Affairs
Jicarilla Agency
PO Box 167
Dulce NM 87528-0167**



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 Carson Federal G		Well No. #1
Unit Letter G	Section 25	Township 28 NORTH	Range 4 WEST	County NMPM	RIO ARriba
Actual Footage Location of Well: 1540 feet from the NORTH line and 2630 feet from the EAST line					
Ground level Elev. 7337	Producing Formation Pictured Cliffs		Pool Choza Mesa Pictured Cliffs		Dedicated Acreage: N 3/4 160 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 communalization, 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 communalization, 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 **6/9/94**

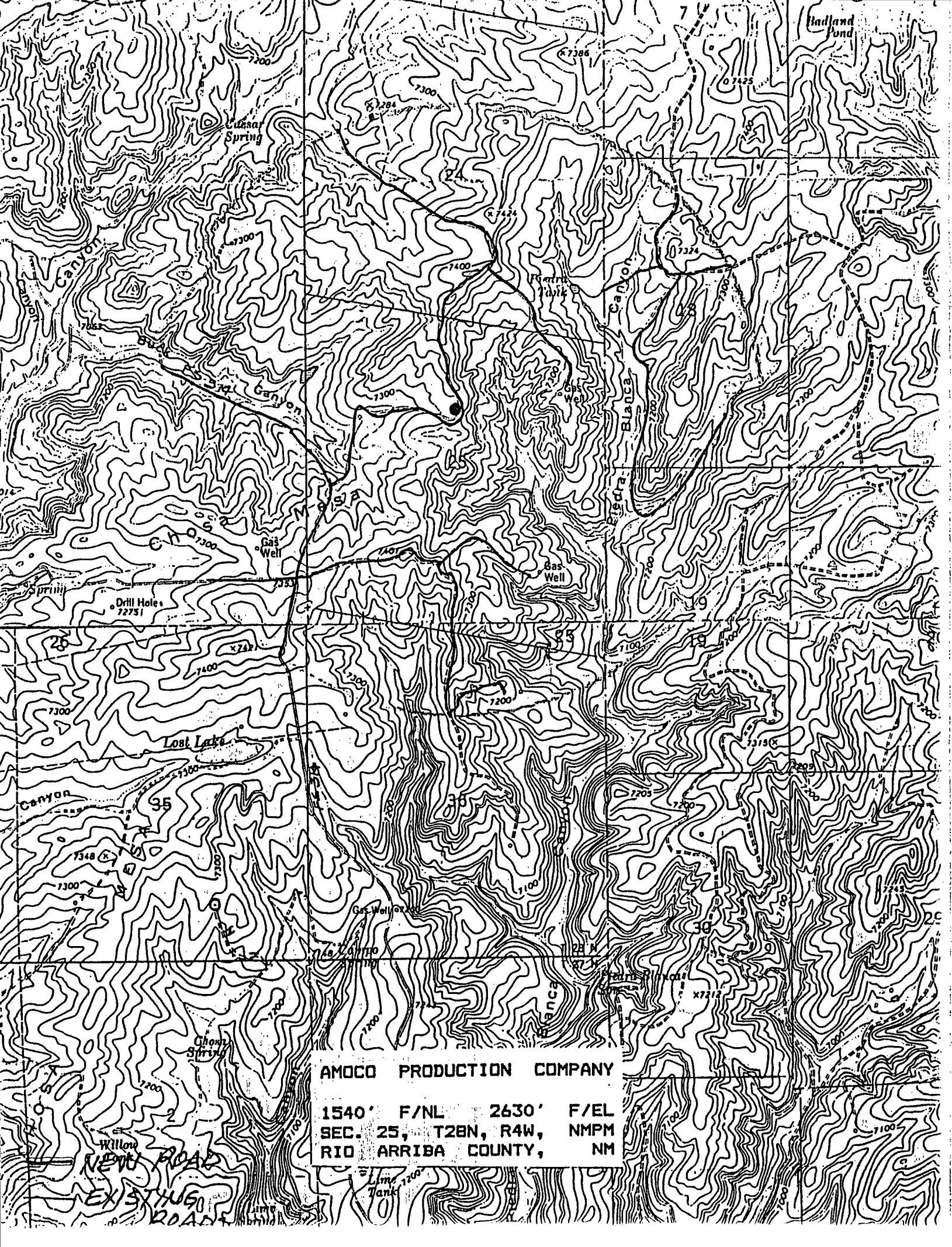
SURVEYOR CERTIFICATION

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 1, 1994**

Signature & Seal of Professional Surveyor
GARY D. VANN
7016
Certification
7016





AMOCO PRODUCTION COMPANY

1540' F/NL 2630' F/EL
SEC. 25, T28N, R4W, NMPM
RIO ARRIBA COUNTY, NM

Lime Tank

Amoco Production Company

ENGINEERING CHART

Sheet No. _____ of _____

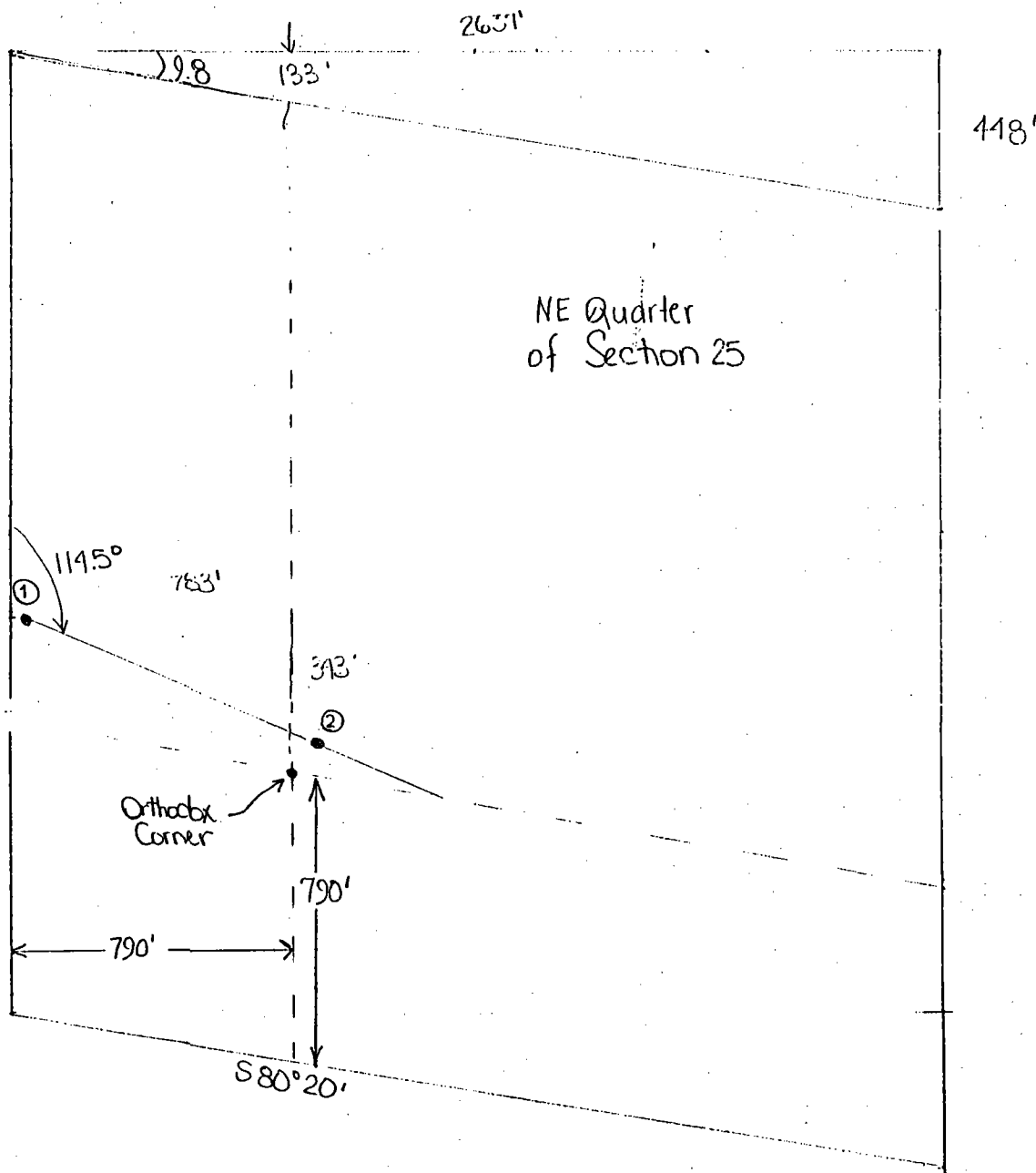
File _____

Appn _____

Date 6 Jul 94

By _____

SUBJECT Carson Federal G #1
Directional Plan



① Surface Location

1540' FNL & 2630' FEL Sec 25, T28N, R4W Rio Arriba Co

② Point we cross legal lines at top of Picture Cliffs

1750' FNL & 1797' FEL (100' North of legal corner & 50' East)

③ End of build MD $\approx 2735'$ TVD $\approx 2762'$ (MD) ($\approx 30^\circ$) KOP $\approx 2162'$ MD
1574' FNL & 2488' FEL

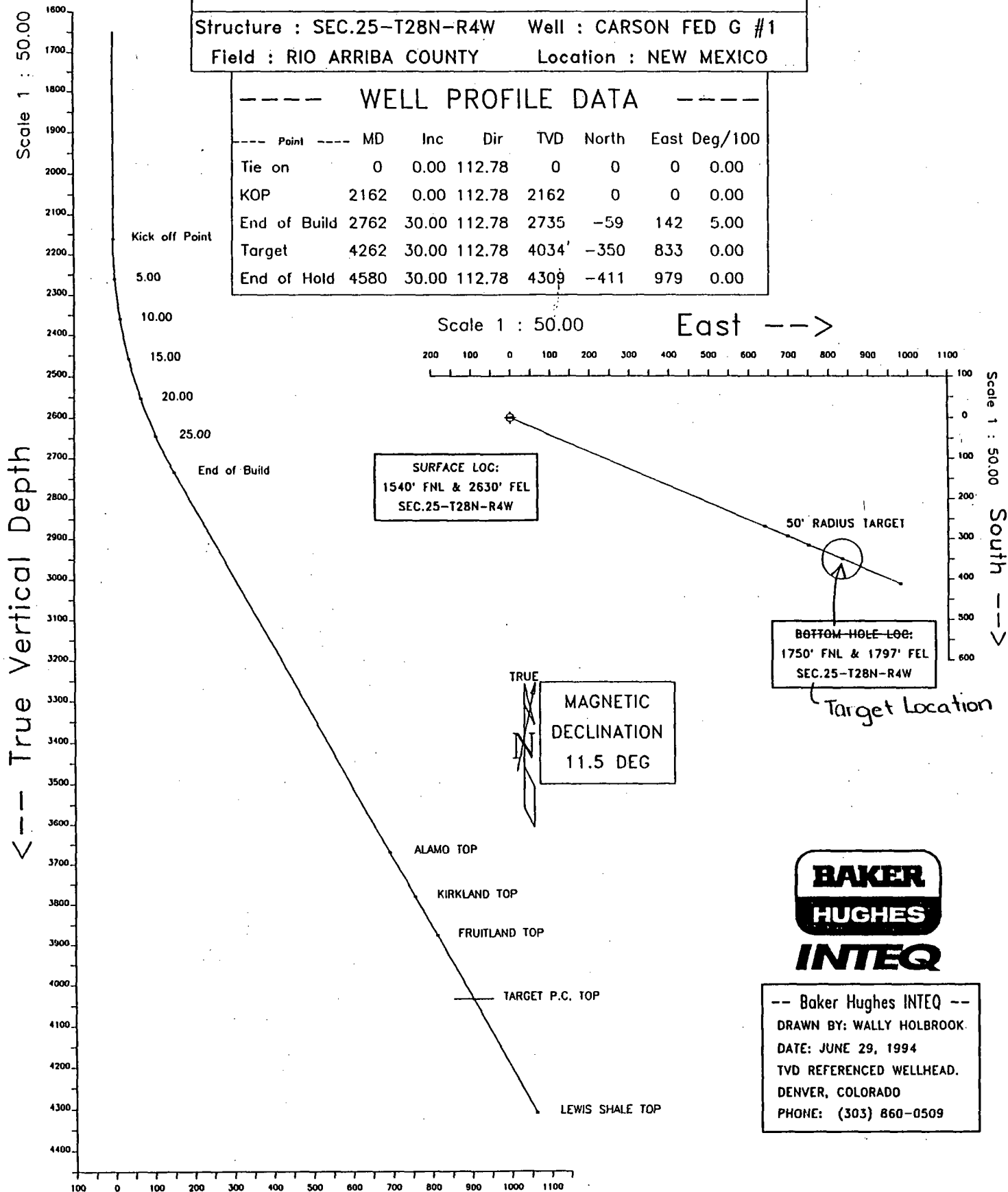
④ Anticipated BHL @ $\approx 4309'$ TVD $\approx 1782'$ FNL & 1651' FEL

AMOCO PRODUCTION COMPANY

Structure : SEC.25-T28N-R4W Well : CARSON FED G #1
Field : RIO ARRIBA COUNTY Location : NEW MEXICO

WELL PROFILE DATA

Point	MD	Inc	Dir	TVD	North	East	Deg/100
Tie on	0	0.00	112.78	0	0	0	0.00
KOP	2162	0.00	112.78	2162	0	0	0.00
End of Build	2762	30.00	112.78	2735	-59	142	5.00
Target	4262	30.00	112.78	4034	-350	833	0.00
End of Hold	4580	30.00	112.78	4309	-411	979	0.00



**BAKER
HUGHES
INTEQ**

-- Baker Hughes INTEQ --
DRAWN BY: WALLY HOLBROOK
DATE: JUNE 29, 1994
TVD REFERENCED WELLHEAD.
DENVER, COLORADO
PHONE: (303) 860-0509

Scale 1 : 50.00

Vertical Section on 112.78 azimuth with reference 0.00 N, 0.00 E from SLOT #1



STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION

GARREY CARRUTHERS
GOVERNOR

Rec. 7/18/94
Released 8/18/94

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87504
(505) 827-5800

July 26, 1990

Union Oil Company of California
3300 North Butler Avenue
Suite 200
Farmington, NM 87401

Amoco Production Company
Southern Rockies Business Unit
P.O. Box 800
Denver, Colorado 80201

Attention: ~~Bill Hering, District Petroleum Engineer~~ *J.W. Hawkins*

98
Administrative Order DD-~~98~~

Dear Mr. ~~Hering~~: *Hawkins*

July 15, 1994
Under the provisions of General Rule 111 (c), (d) and (e), Unocal made application to the New Mexico Oil Conservation Division on ~~July 5, 1990~~, for authorization to directionally drill its proposed ~~Day "B"~~ Well No. 8, ~~San Juan County~~, New Mexico.

Carson Federal "G" Rio Arriba

The Division Director Finds That:

- (1) The application has been duly filed under the provisions of Rule 111(d) and (e) of the Division General Rules and Regulations;
- (2) Satisfactory information has been provided that all offset operators have been duly notified;
- (3) The applicant has presented satisfactory evidence that all requirements prescribed in General Rule 111 will be met; and
- (4) No objections have been received within the waiting period prescribed by said rule.

Microsoft Mail v3.0 IPM.Microsoft Mail.Note

From: Ernie Busch

To: David Catanach

Subject: UNOCAL (NSL)

Date: 1994-07-12 08:36

Priority:

Message ID: 277E2A0A

Conversation ID: 277E2A0A

WELL NAME: RINCON #183E
LOCATION: J-31-27N-06W
FOOTAGE: 1880' FSL; 2080' FEL
RECOMMEND: APPROVAL

=====

Carson Federal "G"

IT IS THEREFORE ORDERED THAT:

(1) The applicant, ^{Amoco Production} ~~Union Oil Company of California~~ d/b/a ~~Unocal~~ is hereby authorized to directionally drill its ~~Day "B"~~ Well No. ~~18~~, the surface location of which shall be ¹⁵⁴⁰ 734 feet from the North line and ²³³⁰ 1233 feet from the East line (Unit ~~A~~ ²⁵) of Section ~~7~~, Township ¹⁵⁴⁰ 27 North, Range ²⁸ 8 West, NMPM, San Juan County, New Mexico, by kicking off from the vertical at a depth of approximately ²¹⁶⁰ 325 feet, and drilling in such a manner as to bottom in the ~~Basin-Fruitland Coal Gas Pool~~ at a standard ~~coal~~ gas well location within the ^{sw/4} NE/4 of said Section ~~7~~. ²⁵ ~~Choza Mesa Pictured Cliffs~~

PROVIDED HOWEVER THAT prior to commencing directional drilling operations into said wellbore, the applicant shall establish the location of the kick-off point by means of a directional survey acceptable to the Division.

PROVIDED FURTHER THAT during or upon completion of directional drilling operations, the applicant shall conduct an accurate wellbore survey from the kick-off point to total depth in order that the subsurface bottomhole location, as well as the wellbore's true depth and course, may be determined.

(2) The applicant shall notify the supervisor of the Aztec district office of the Division of the date and time said wellbore surveys are to be conducted so that they may be witnessed. The applicant shall further provide a copy of said wellbore surveys to the Santa Fe and Aztec offices of the Division upon completion.

(3) Form C-105 shall be filed in accordance with Division Rule 1105 and the operator shall indicate thereon true vertical depth in addition to measured depths.

(4) The ^{NE/4} ~~E/2~~ of said Section ~~7~~ shall be dedicated to the well forming a standard ²⁵ 320-acre gas spacing and proration unit for said pool. ¹⁶⁰

(5) Jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.

3. Tubing requirements:

(a) Oil Wells: Yes. Rule R12-7-111.

(b) Gas Wells: Yes. Rule R12-7-111.

Tubing set as close to bottom as practical and tubing perforations not more than 250 feet above top of pay. Wells may be completed with small diameter casing in lieu of tubing. Rule R12-7-111.

Completion

1. Completion report required: Yes. Rule R12-7-121.

(a) Time limit: 30 days following completion. Rule R12-7-121.

(b) Where submitted: Oil and Gas Conservation Commission, 3110 N. 19th Ave., Suite 190, Phoenix, AZ 85015.

2. Well logs required to be filed: Yes. Rule R12-7-121.

(a) Time limit: 30 days following completion. Rule R12-7-121.

(b) Where submitted: Same as (b) in question 1 above.

(c) Confidential time period Yes. Rule R12-7-121B. Six months.

(d) Available for public use: Yes, after confidentiality period.

(e) Log catalog available: No.

3. Multiple completion regulation: Yes. Rule R12-7-116.

(a) Approval obtained: For first well in each field following notice and hearing. Other wells in same field may be approved administratively. Rule R12-7-116.

4. Commingling in well bore: May be authorized by Commission upon application and hearing. Rule 12-7-137.

Oil Production

1. Definition of an oil well: Any well producing hydrocarbons in a liquid state that is not the result of condensation of gas, with a gas-oil ratio below 50,000 to 1, or any well classed as an oil well by the Commission.

2. Potential tests required: Yes. Rule R12-7-135.

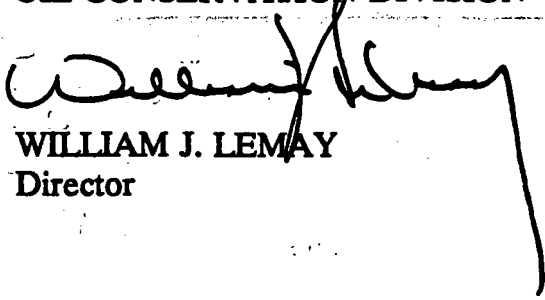
(a) Time interval: Immediately after test.

(b) Witnesses required: In some instances.

Administrative Order DD-38
Union Oil Company of California
July 26, 1990
Page No. 3

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

**STATE OF NEW MEXICO
OIL CONSERVATION DIVISION**


WILLIAM J. LEMAY
Director

S E A L

**cc: Oil Conservation Division - Aztec
US Bureau of Land Management - Farmington**



GOVERNMENT ACCOUNT STATEMENT

FINA OIL AND CHEMICAL COMPANY

P.O. BOX 2986 AMARILLO, TEXAS 79105-2986
PHONE-806/378-3519

SOLD TO:

EMNRD OCD
PO BOX 2088

SANTE FE

NM 87504

ACCOUNT NO. 001 311 523 3

STATEMENT DATE 07/26/94

TAX ID # 75-0990483

DLA # 600-92-D-1041

Amount of Invoices Attached \$ 49.20

Description of Exempt Taxes:

Federal

.1840 on	46.0 Gallons of Gasoline	\$ 8.46
.0000 on	0.0 Gallons of Diesel	0.00

Less Total Federal Tax \$ 8.46

State

State	Gallons	Rate	Amount
-------	---------	------	--------

*** PAYMENT DUE UPON RECEIPT OF STATEMENT *** Less Total State Tax \$ 0.00
TAX CERTIFICATE SF1094 OR RV-5 NOT REQUIRED *****
PLEASE RETURN COPY OF STATEMENT WITH YOUR REMITTANCE
ALL CHARGE ACCOUNTS ARE PAYABLE AT OFFICE OF COMPANY IN
AMARILLO, POTTER COUNTY, TEXAS 0013115233 ** NET CURRENT BILLING \$ 40.74

001 311 523 3 0002 1102800

EMNRD OCD
P O BOX 2088
SANTA FE NM 87504-2088



FINA OIL AND
CHEMICAL COMPANY

DRIVER'S LICENSE NUMBER & STATE

AUTH CODE

COMPANY SALES CARD

FINA 1393 (12-86)
07010100
07519100

39700883026 070794

3825122

07080100

711 S MAIN
ROSELL NM

VEHICLE LICENSE NO. & STATE SOLD BY
G-04715 NM JP

BUYER'S SIGNATURE
X D. H. H.

PRODUCT	QUAN	PRICE	AMOUNT
GAS			28.00
MOTOR OIL			
FINA UNLEADED REGULAR			
FINA DIESEL			
PRICES INCLUDE APPLICABLE FEDERAL & STATE EXCISE TAXES			
SALES TAX			
TOTAL			28.00

001 311 523 3 0006 0002120

EMNRD/OCD S F
P O BOX 2088
SANTA FE NM 87504-2088



FINA OIL AND
CHEMICAL COMPANY

DRIVER'S LICENSE NUMBER & STATE

AUTH CODE

COMPANY SALES CARD

FINA 1393 (12-86)

15328069016 061594

07010100
07518100
07030100

5838315

HWY 85 NORTH
LAS VEGAS NM

VEHICLE LICENSE NO. & STATE

SOLD BY

BUYER'S SIGNATURE
X [Signature]

PRODUCT	QUAN	PRICE	AMOUNT
MOTOR OIL			
FINA UNLEADED REGULAR			
FINA DIESEL			
PRICES INCLUDE APPLICABLE FEDERAL & STATE EXCISE TAXES			
SALES TAX			
TOTAL			21.20



Southern

Rockies

Business

Unit

July 15, 1994

Mr. William J. LeMay, Director
New Mexico Oil Conservation Division
310 Old Santa Fe Trail
Santa Fe, NM 87504

**Application for Directional Drilling
Carson Federal G No.1 Well
NE/4 Section 25, T28N-R4W
Choza Mesa Pictured Cliffs Pool
Rio Arriba County, New Mexico**

Amoco Production Company hereby requests administrative approval to directionally drill the Carson Federal G No.1 well referenced above. The well is planned to be drilled from a surface location 1540' FNL and 2630' FEL of Section 25 to a bottomhole location of 1782' FNL and 1651' FEL of Section 25 T28N-R4W. The surface location is necessary due to the topography in this area. The well is planned to intercept the top of the Pictured Cliffs formation within the legal drilling window at 1750' FNL and 1797' FEL of Section 25 T28N-R4W. Attached are plats and directional plan for the well.

All offset operators will receive a copy of this application by certified mail with a request for a waiver of objection.

Sincerely,

JW Hawkins
J. W. Hawkins

cc: Andy Logan
Julie Talbot

WAIVER

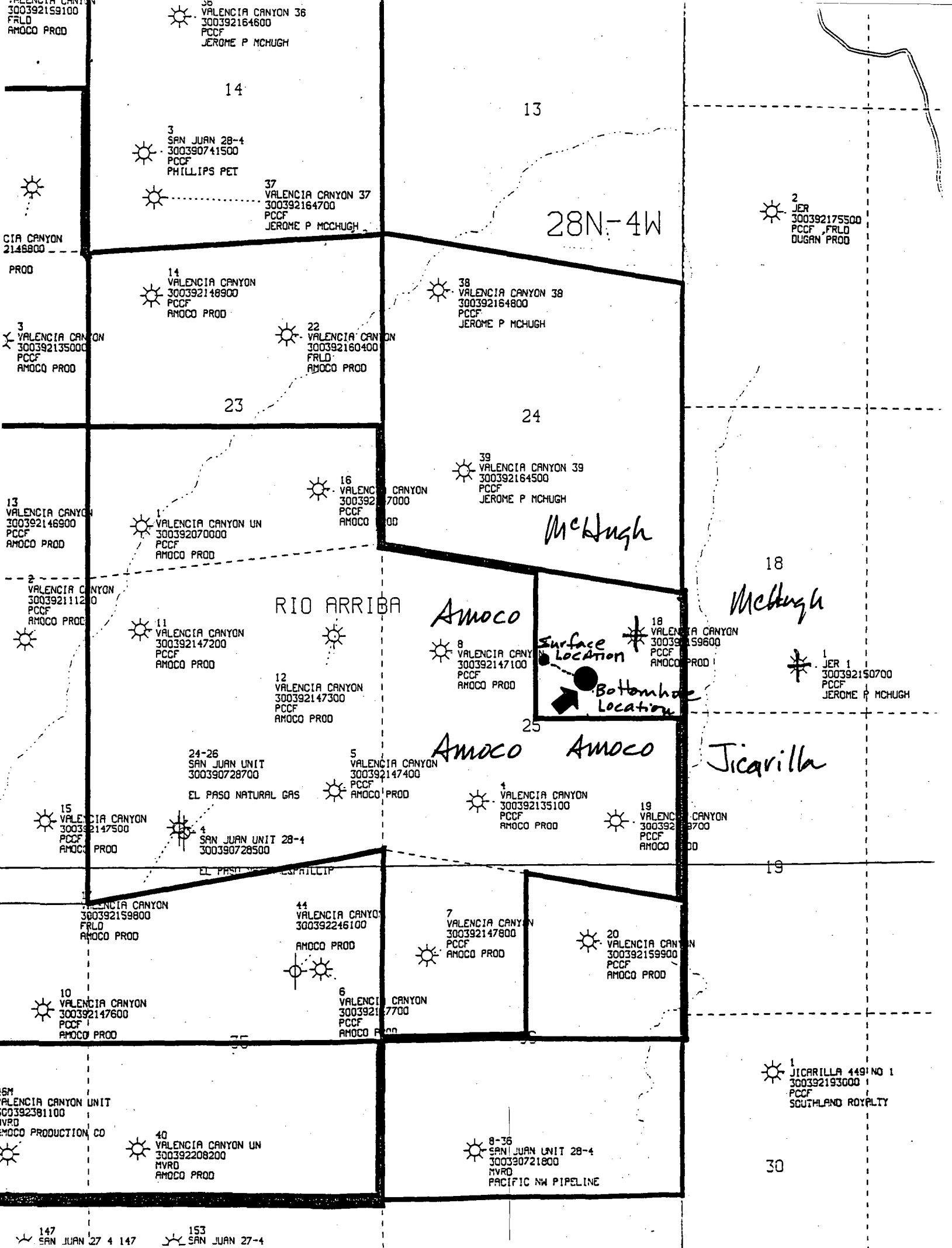
_____ hereby waives objection to Amoco's application to directionally drill the Carson Federal G No.1 well as proposed above.

By: _____ Date: _____

Offset Operators

Jerome P McHugh
650 S. Cherry St., Suite 1225
Denver, CO 80222-1894

Bureau of Indian Affairs
Jicarilla Agency
PO Box 167
Dulce NM 87528-0167



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

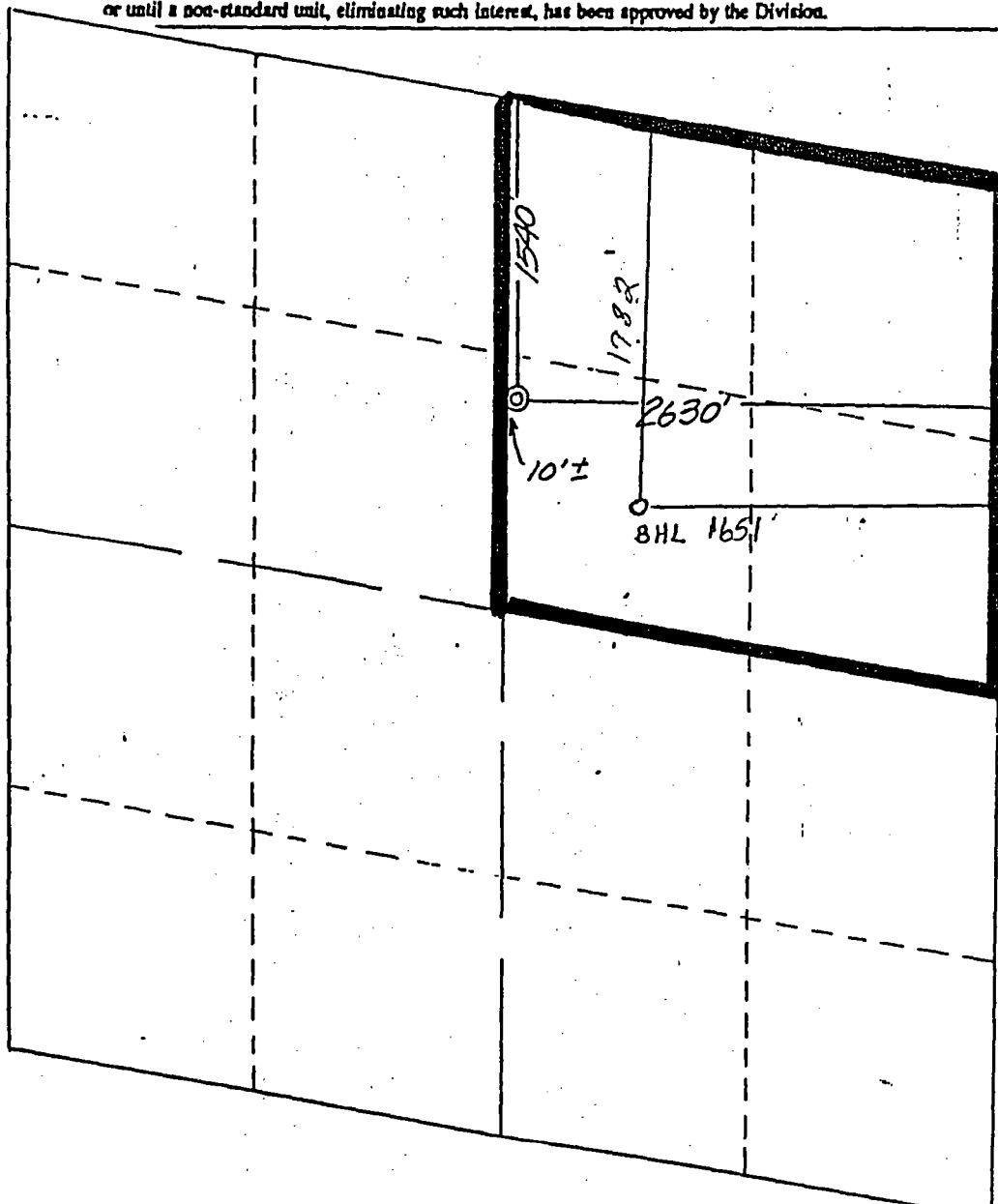
All Distances must be from the outer boundaries of the section

Operator AMOCO PRODUCTION COMPANY			Lease Carson Federal G		Well No. #1
Unit Letter G	Section 25	Township 28 NORTH	Range 4 WEST	County NMPM RIO ARriba	
Actual Footage Location of Well: 1540 feet from the NORTH line and 2630 feet from the EAST line					
Ground level Elev. 7337	Producing Formation Pictured Cliffs		Pool Choza Mesa Pictured Cliffs		Dedicated Acreage: N 3/4 160 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 communalization, 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 communalization, 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
6/9/94

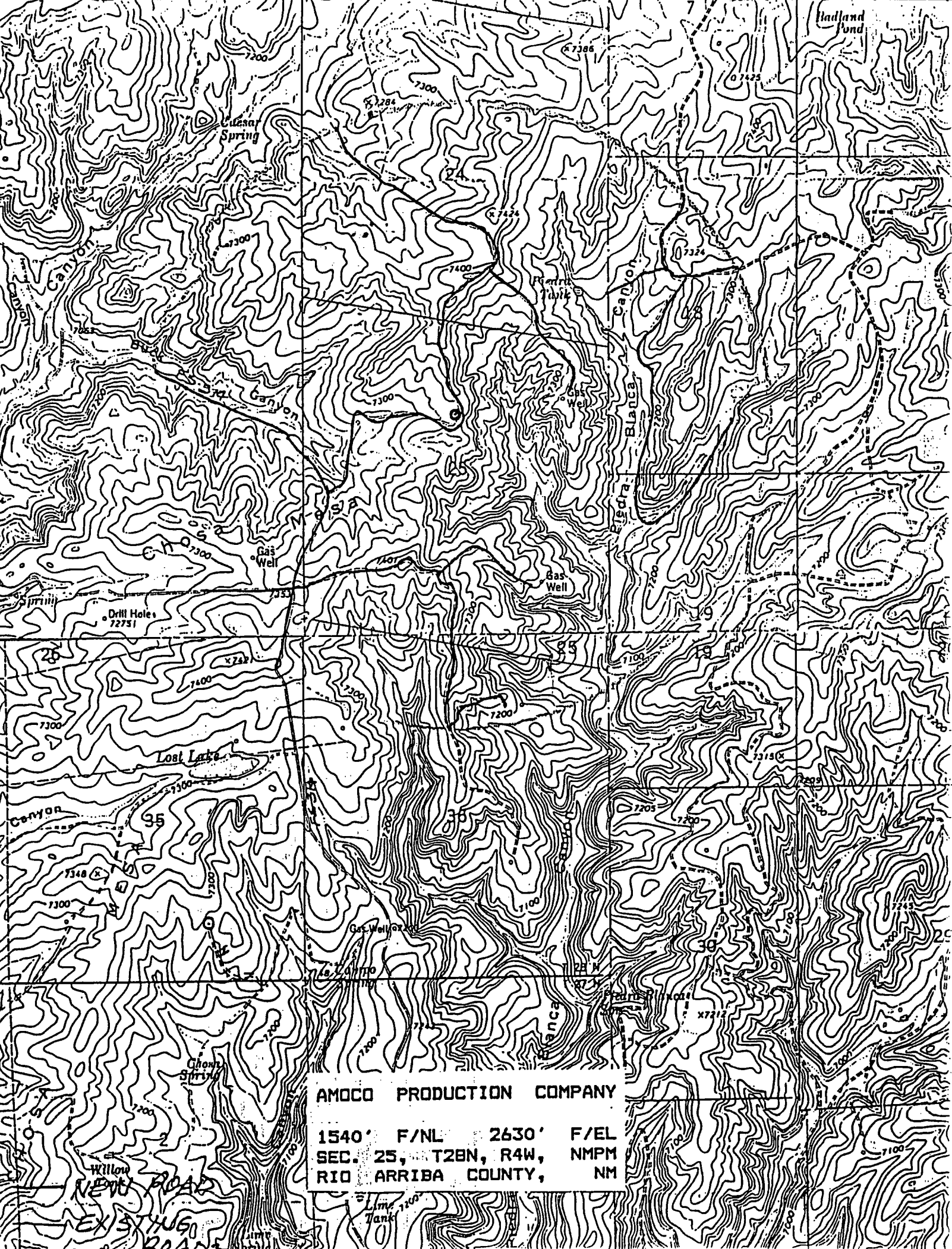
SURVEYOR CERTIFICATION

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 1, 1994

Signature & Seal of Professional Surveyor
Gary D. Vann

GARY D. VANN
NEW MEXICO
REGISTERED PROFESSIONAL LAND SURVEYOR
7016



AMOCO PRODUCTION COMPANY

1540' F/NL 2630' F/EL
SEC. 25, T2BN, R4W, NMPM
RIO ARriba COUNTY, NM

WILLOW
NEW ROAD
EXISTING ROAD

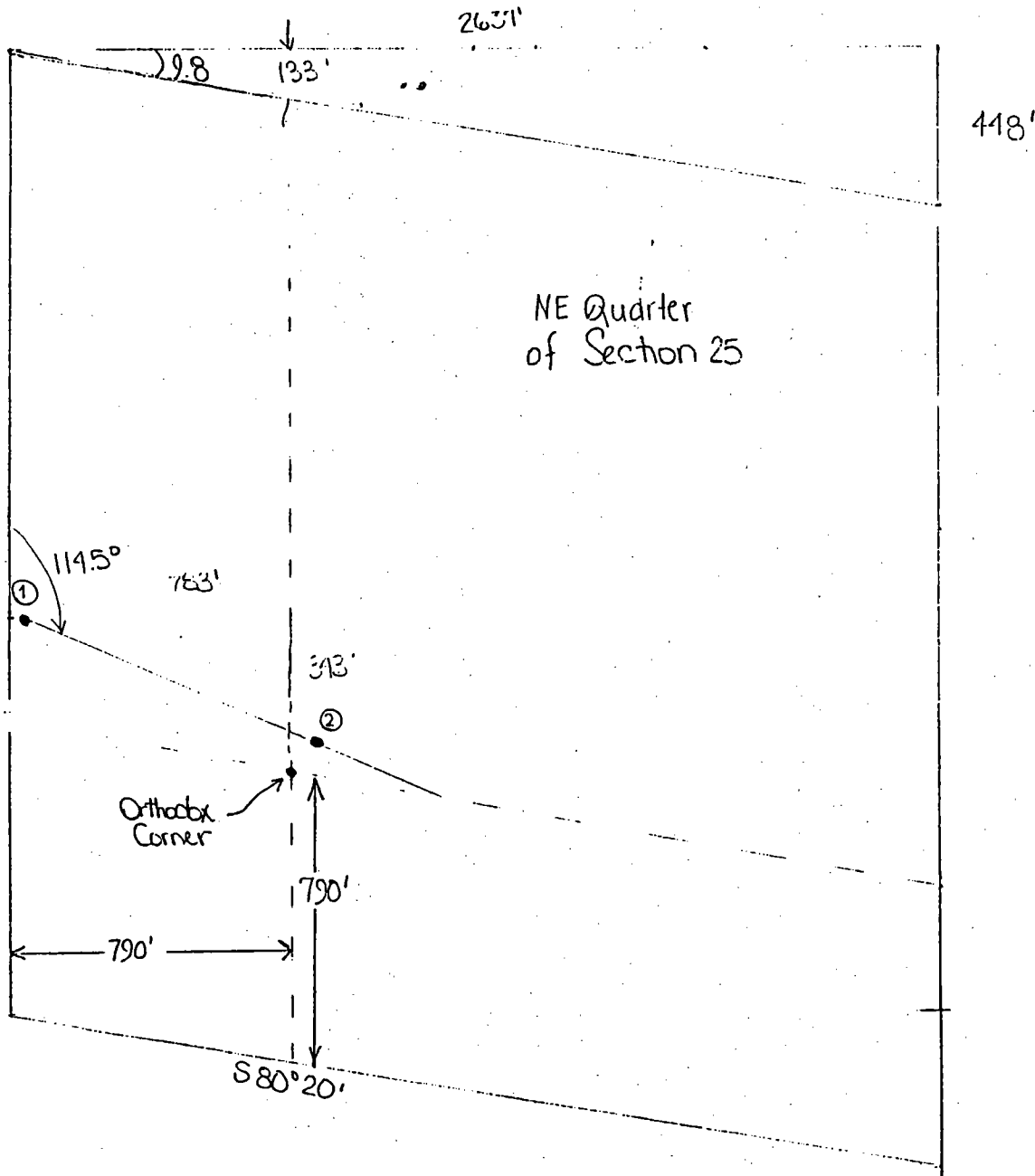
ENGINEERING CHART

Appn _____

Date 6 Jul 94

By _____

SUBJECT Carson Federal G-11
Directional Plan.



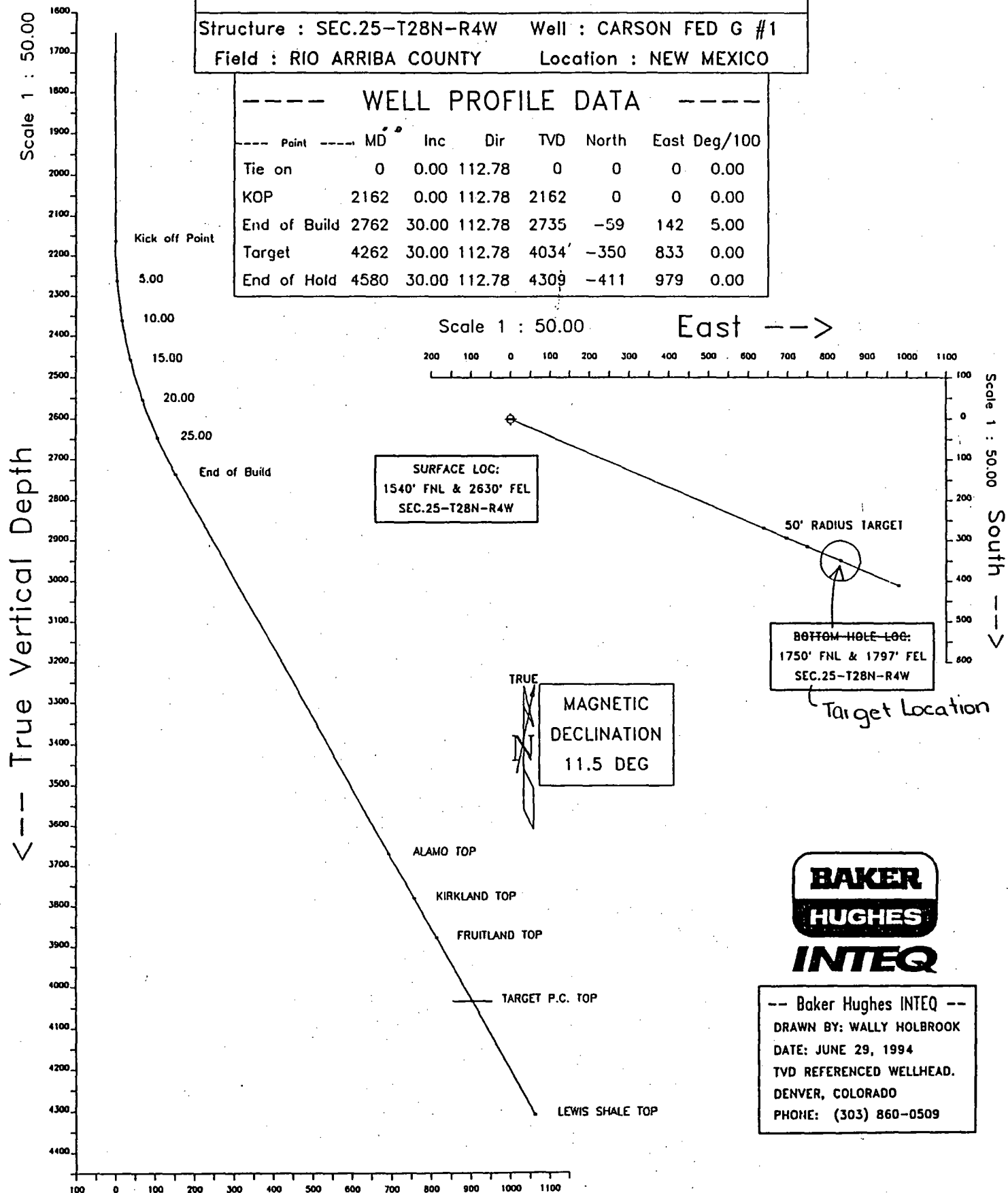
- ① Surface Location
1540' FNL & 2630' FEL Sec 25, T28N, R4W Rio Arriba Co
- ② Point we cross legal lines at top of Picture Cliffs
1750' FNL & 1797' FEL (100' North of legal corner & 50' East)
- ③ End of build $\overset{\approx 2735' \text{ TND}}{\text{MD}} \approx 2762' \text{ (MD)} \text{ (} \approx 30^\circ \text{)}$ KOP $\approx 2162' \text{ MD}$
1574' FNL & 2488' FEL
- ④ Anticipated $\overset{\approx 4309' \text{ TND}}{\text{FNL}} @ \approx 50^\circ \text{ MD} \approx 1782' \text{ FNL} \& 1651' \text{ FEL}$

AMOCO PRODUCTION COMPANY

Structure : SEC.25-T28N-R4W Well : CARSON FED G #1
Field : RIO ARRIBA COUNTY Location : NEW MEXICO

WELL PROFILE DATA

Point	MD	Inc	Dir	TVD	North	East	Deg/100
Tie on	0	0.00	112.78	0	0	0	0.00
KOP	2162	0.00	112.78	2162	0	0	0.00
End of Build	2762	30.00	112.78	2735	-59	142	5.00
Target	4262	30.00	112.78	4034	-350	833	0.00
End of Hold	4580	30.00	112.78	4309	-411	979	0.00



BAKER
HUGHES
INTEQ

-- Baker Hughes INTEQ --
DRAWN BY: WALLY HOLBROOK
DATE: JUNE 29, 1994
TVD REFERENCED WELLHEAD.
DENVER, COLORADO
PHONE: (303) 860-0509



**Southern
Rockies
Business
Unit**

July 15, 1994

Mr. William J. LeMay, Director
New Mexico Oil Conservation Division
310 Old Santa Fe Trail
Santa Fe, NM 87504

**Application for Directional Drilling
Carson Federal G No.1 Well
NE/4 Section 25, T28N-R4W
Choza Mesa Pictured Cliffs Pool
Rio Arriba County, New Mexico**

Amoco Production Company hereby requests administrative approval to directionally drill the Carson Federal G No.1 well referenced above. The well is planned to be drilled from a surface location 1540' FNL and 2630' FEL of Section 25 to a bottomhole location of 1782' FNL and 1651' FEL of Section 25 T28N-R4W. The surface location is necessary due to the topography in this area. The well is planned to intercept the top of the Pictured Cliffs formation within the legal drilling window at 1750' FNL and 1797' FEL of Section 25 T28N-R4W. Attached are plats and directional plan for the well.

All offset operators will receive a copy of this application by certified mail with a request for a waiver of objection.

Sincerely,

JW Hawkins
J. W. Hawkins

cc: Andy Logan
Julie Talbot

WAIVER

_____ hereby waives objection to Amoco's application to directionally drill the Carson Federal G No.1 well as proposed above.

By: _____ Date: _____

Offset Operators

Jerome P McHugh
650 S. Cherry St., Suite 1225
Denver, CO 80222-1894

Bureau of Indian Affairs
Jicarilla Agency
PO Box 167
Dulce NM 87528-0167

153
SAN JUAN 27-4

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

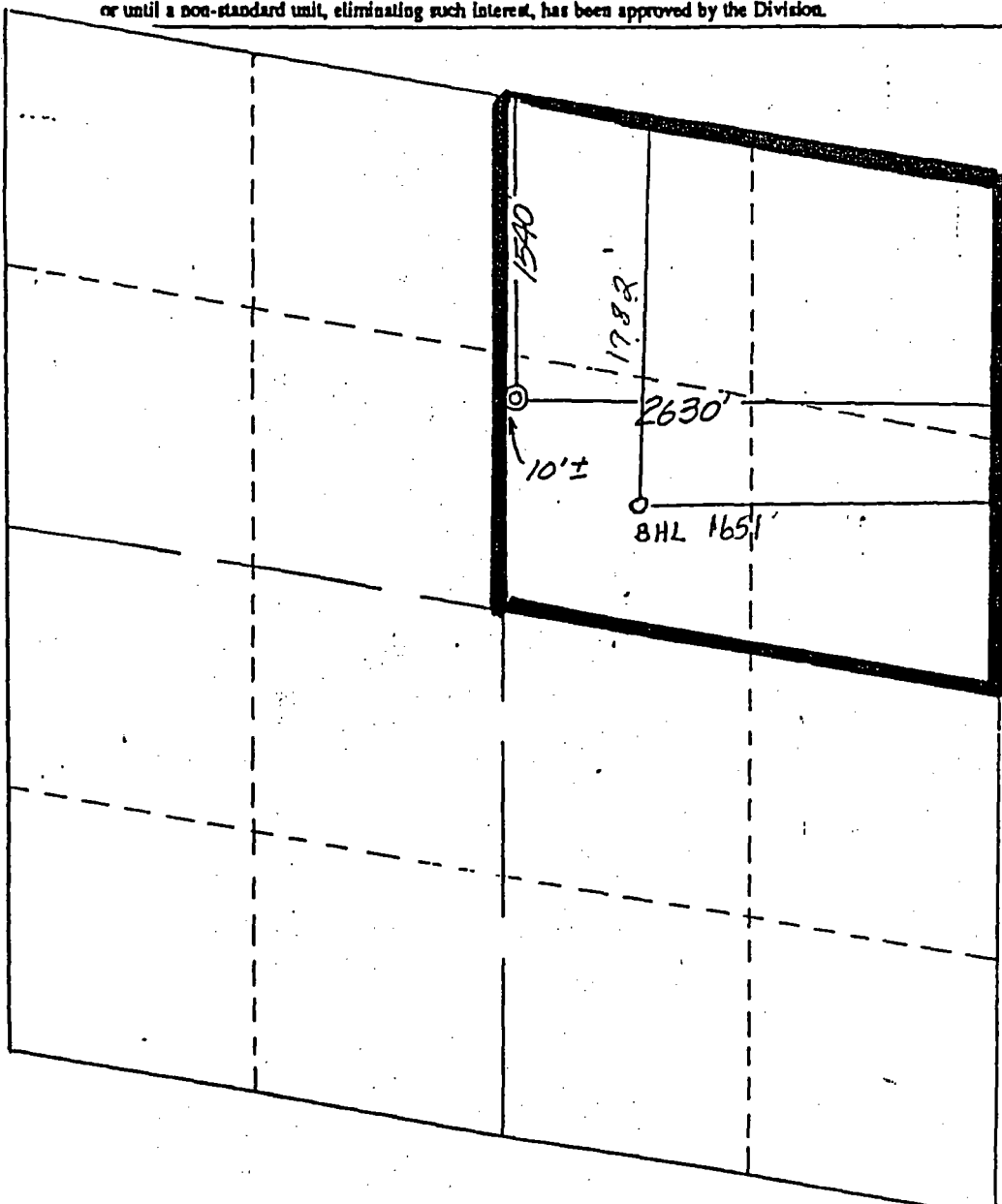
1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator AMOCO PRODUCTION COMPANY			Lease Carson Federal G		Well No. #1
Unit Letter G	Section 25	Township 28 NORTH	Range 4 WEST	County NMPM	RIO ARRIBA
Actual Footage Location of Well: 1540 feet from the NORTH line and 2630 feet from the EAST line					
Ground level Elev. 7337	Producing Formation Pictured Cliffs		Pool Choza Mesa Pictured Cliffs		Dedicated Acreage: N 1/4 160 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 communalization, 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 communalization, 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
6/9/94

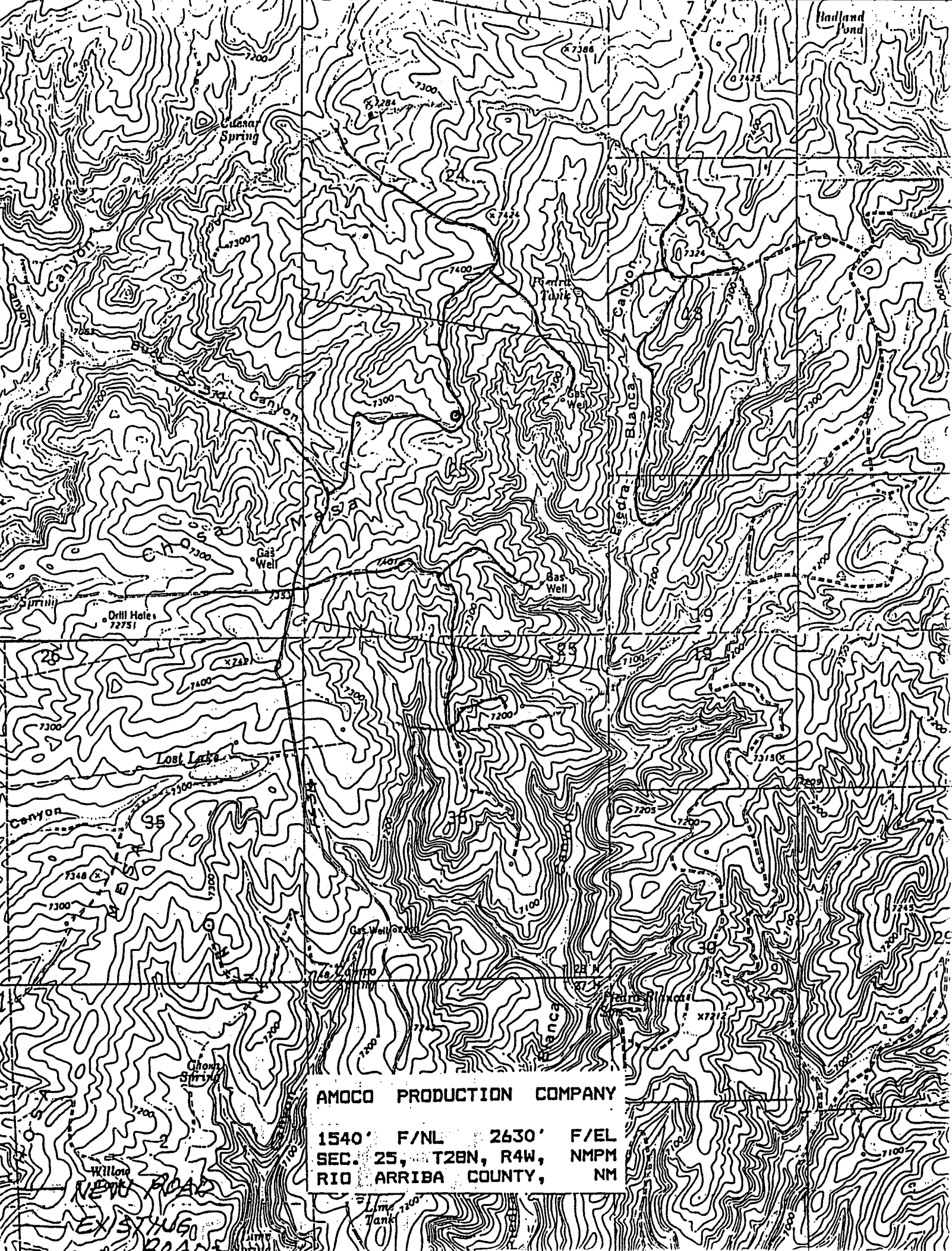
SURVEYOR CERTIFICATION

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 1, 1994

Signature & Seal of
Professional Surveyor

GARY D. VANN
NEW MEXICO
REGISTERED PROFESSIONAL LAND SURVEYOR
7016



AMOCO PRODUCTION COMPANY

1540' F/NL 2630' F/EL
SEC. 25, T28N, R4W, NMPM
RIO ARriba COUNTY, NM

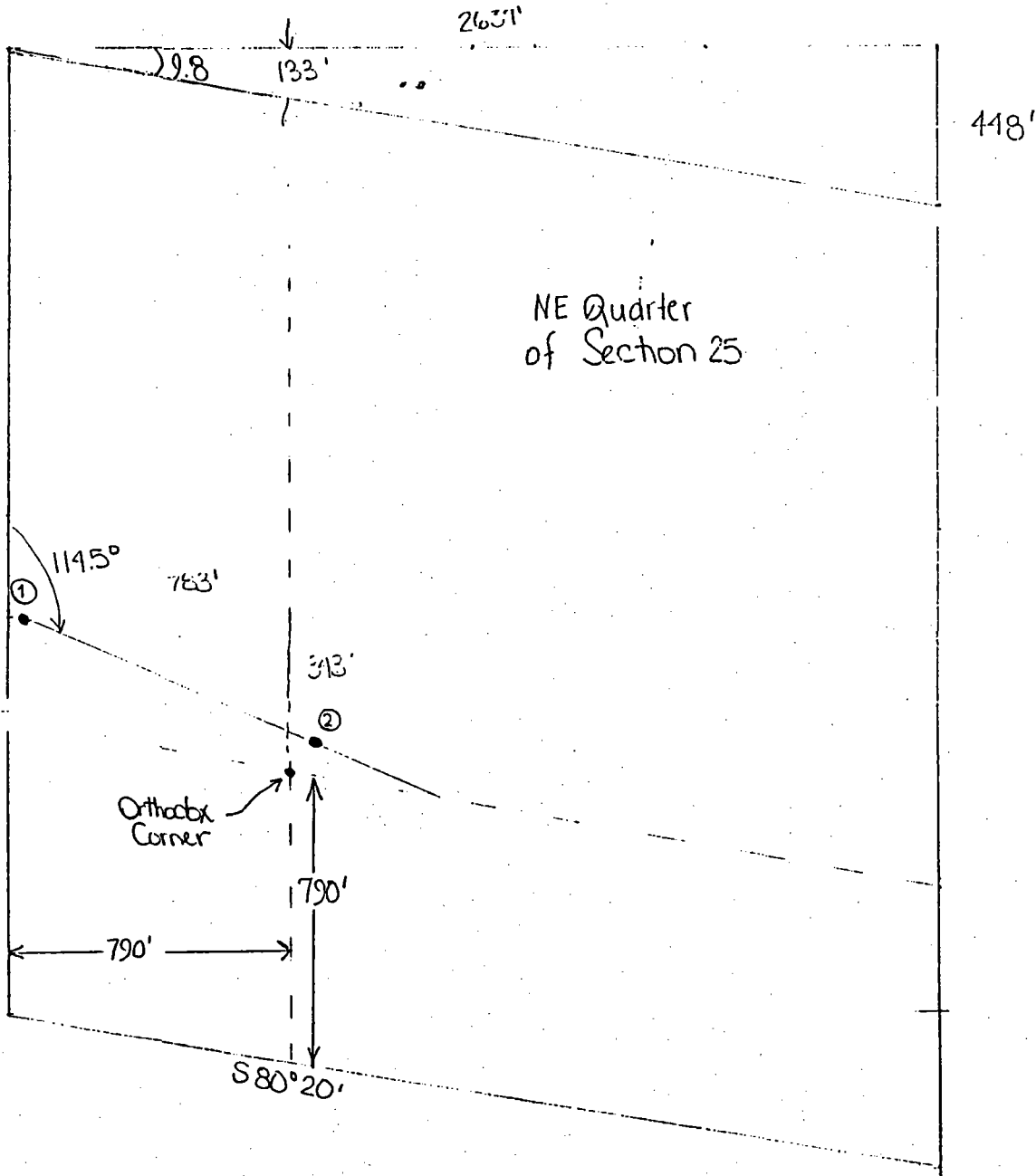
NEW ROAD
EXISTING ROAD

Amoco Production Company

ENGINEERING CHART

SUBJECT Carson Federal G Directional Plan.

Sheet No _____ of _____
 File _____
 Appn _____
 Date 6 Jul 94
 By _____



① Surface Location
 1540' FNL & 2630' FEL Sec 25, T28N, R4W Rio Arriba Co

② Point we cross legal lines at top of Picture Cliffs
 1750' FNL & 1797' FEL (100' North of legal corner & 50' East)

③ End of build MD $\approx 2735'$ TVD
 MD $\approx 2762'$ MD ($\approx 30^\circ$) KOP $\approx 2162'$ MD
 1574' FNL & 2488' FEL

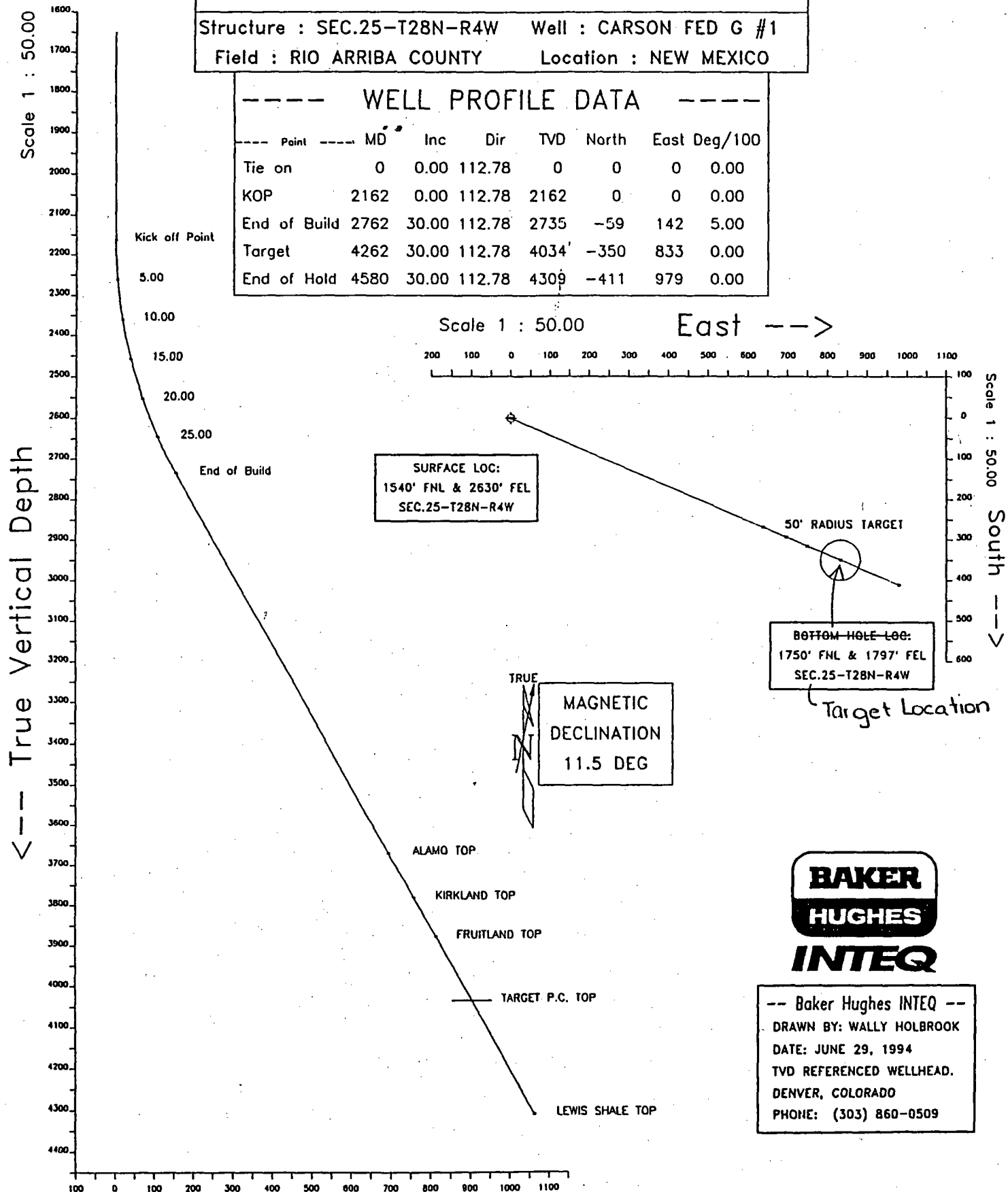
④ Anticipated RLL @ $\approx 1580'$ MD $\approx 1782'$ FNL & 1651' FEL

AMOCO PRODUCTION COMPANY

Structure : SEC.25-T28N-R4W Well : CARSON FED G #1
Field : RIO ARRIBA COUNTY Location : NEW MEXICO

WELL PROFILE DATA

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PHONE: (303) 860-0509

Scale 1 : 50.00

Vertical Section on 112.78 azimuth with reference 0.00 N, 0.00 E from SLOT #1