

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

IN THE MATTER OF THE APPLICATION
OF AMOCO PRODUCTION COMPANY FOR
A NON-STANDARD PRORATION UNIT,
UNORTHODOX GAS WELL LOCATION AND
DIRECTIONAL DRILLING,
SAN JUAN COUNTY, NEW MEXICO.

CASE NO. 10074

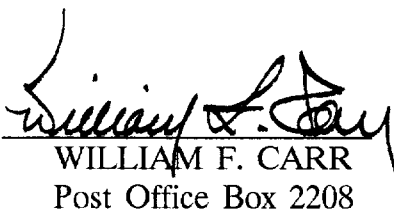
ENTRY OF APPEARANCE

COMES NOW CAMPBELL & BLACK, P.A., and hereby enters its appearance in
the above referenced case on behalf of Amoco Production Company.

Respectfully submitted,

CAMPBELL & BLACK, P.A.

By:



WILLIAM F. CARR
Post Office Box 2208
Santa Fe, New Mexico 87504
Telephone: (505) 988-4421

ATTORNEYS FOR AMOCO
PRODUCTION COMPANY

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AUG 17 1990

OIL CONSERVATION DIV.
SANTA FE

Facsimile Transmission

Facsimile Transmission		Addressee's Telecopier Phone 505-827-5741		Date 8-14-90	Page 1 of 4
To: Michael Stogner	Company: NMOC	Location: Santa Fe NM		Mail Code/Room	
From: Bill Hawkins	Company: NMOC	Location: Denver CO		Mail Code/Room 980	
Initiated By	Approved By	<input type="checkbox"/> Call _____ for pickup. <input type="checkbox"/> Return to _____			

Rush to Michael Stoguer
upon receipt

Michael

I will send hard copy original
w/ plats in the mail.

Pls call me at 303-830-5072
if there is a problem.

Bill Hawkins

10074



Amoco Production Company

Denver Region
1670 Broadway
P.O. Box 800
Denver, Colorado 80201
303-830-4040

August 14, 1990

Mr. William J. LeMay
Oil Conservation Division
PO Box 2088
Santa Fe, New Mexico 87501

Case 10074

File: CAW-209-986.511

Application for Five (5) Non-Standard Proration Units
and Two (2) Unorthodox Well Locations
(* or in the alternative Two (2) Directionally Drilled Wells)
Basin Fruitland Coal Gas Pool
San Juan County, New Mexico

Amoco Production Company hereby makes application for an order of the New Mexico Oil Conservation Division approving five (5) non-standard proration units and two (2) unorthodox well locations (* or in the alternative, two (2) directionally drilled wells) in the Basin Fruitland Coal Pool as follows:

Unit #1. Description: T30N, R8W, N.M.P.M.
Section 19: Lots 1, 2, 8, 9, E/2 W/2
(aka, W/2)
Section 30: Lots 2, 6, E/2 NW/4
(aka, NW/4)
Acreage: 342.54
Well: Archuleta Gas Com/B/#1
Location: 920' FWL, 890' FSL, Section 19

Unit #2. Description: T31N, R8W, N.M.P.M.
Section 30: Lots 3, 4, E/2 SW/4
(aka, SW/4)
Section 31: Lots 1, 2, 3, 4, E/2 W/2
(aka, W/2)
Acreage: 326.00
Well: Dawson Gas Com #1
*Unorthodox
Location: 660'FWL, 1210'2.FSL, Section 31

*6 miles
SE by S
of Cedar
Hill, etc*

Unit #3. Description: T31N, R9W, N.M.P.M.
 Section 19: Lots 7, 8, 9, 10, 15,
 16, 17 and 18 (aka, W/2)
 Section 30: Lots 6, 7, 8 and 9
 (aka, NW/4)
 Acreage: 309.09
 Well: Barrett Gas Com A #1
 Location: 925'FWL, 1810'FSL, Section 19

Unit #4. Description: T31N, R9W, N.M.P.M.
 Section 30: Lots 14, 15, 16 and 17
 (aka, SW/4)
 Section 31: Lots 7, 8, 9, 10, 15,
 16, 17 and 18 (aka, W/2)
 Acreage: 299.10
 Well: Riddle Gas Com/C/ #1
 *Unorthodox
 Location: 890' FLW, 2120' FSL, Section 30

Unit #5. Description: T29N, R8W, N.M.P.M.
 Section 19: Lots 1, 2, 3, 4, E/2 W/2
 (aka, W/2)
 Section 30: Lots 1, 2, E/2 NW/4
 (aka, NW/4)
 Acreage: 347.60
 Well: Unnamed
 Drillsite: Undetermined (legal location)

Amoco requests that this matter be set for Examiner hearing on the September 5, 1990 Docket.

By copy of this application, sent certified mail, return receipt requested, we are notifying each of the offsetting owners and/or operators of their right to appear at the hearing, either in support of or in opposition to this application. Should any party desire more information about this matter, they may call the Division or the undersigned.

Sincerely,

J.W. Hawkins
 J.W. Hawkins

JWH/ae
 Attachment

cc: Affected Offset Owners/Operators
 (see attached mailing list)
 by Certified Mail - Return Receipt Requested

Non-Standard Fruitland Coal Proration Units

Mailing List

Conoco Inc.
3817 Northwest Expressway
Oklahoma City, OK 73112-1400

Fina Oil & Chemical Company
P. O. Box 2990
Midland, TX 70702-2990

El Paso Production Company
Southland Royalty Company
Meridian Oil Production Inc.
c/o Meridian Oil Inc.
P. O. Box 4289
Farmington, NM 87499-4289

Atlantic Richfield Company
P. O. Box 1610
Midland, TX 79702-1610

Marathon Oil Company
P. O. Box 3128
Houston, TX 77253-3128

David A. Pierce & Dirk Reemtsma
1st Interstate Bank Agent, Trust Dept.
P. O. Box 4140
Farmington, NM 87499

Susan Pierce Nelson
5300 Hill N Dale
Farmington, NM 87401

Lance Reemtsma
574 Edgecroft Road
Kensington, CA 94707

R. E. Beamon, III
Three Riverway, STE 470
Houston, TX 77056

Unit Petroleum Company
Dept. 247
Tulsa, OK 74182

Donald Turietta
P. O. Box 665
Albuquerque, NM 87103

Union Texas Petroleum
P. O. Box 2120
Houston, TX 77252-2120

Mesa Limited Partnership
P. O. Box 2009
Amarillo, TX 79189-2009

D. J. Simmons Company
P. O. Box 1469
Farmington, NM 87499-1469

Koch Exploration Company
and Koch Industries
P. O. Box 2256
Wichita Falls, KS 67201-2256

Lucille Quigley Trust
P. O. Box 1107
Salem, Oregon 97308-1107

Texaco Inc.
P. O. Box 3109
Midland, TX 79702-3109

John B. Pierce
P.O. Box 401
Aztec, NM 87410

Union Oil of California
P.O. Box 671
Midland, TX 79702

Pattie Beamon Lundell
1616 S. Voss Road, #870
Houston, TX 77057

Mary Cecile Forehand and
Evelyn Christian
Lorine Driskell,
Attorneys-in-Fact
c/o Harold M. Walker
516 E. Houston
Crockett, TX 75835

K

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I.

M

III



Form 3100-5
December 1989

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MAIL ROOM

UNITED STATES

DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

4 PM 10 10

FORM APPROVED
Budget Bureau No. 1004-1135
Expires September 30 1990

5. Lease Designation and Serial No.

SF-078318A, SF-078316

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 reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☐ Gas Well ☒ Other Coal Seam

2. Name of Operator

AMOCO PRODUCTION COMPANY

3. Address and Telephone No.

P.O. BOX 800, DENVER COLORADO 80201 ATTN: JOHN HAMPTON RM. 1846

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

890' FWL, 2120' FSL, NE/SW, Sec. 30, T31N R9W

7. If Unit or C.A. Agreement Designation

8. Well Name and No.

Riddle Gas Com "C"

9. API Well No.

#1

10. Field and Pool, or Exploratory Area

Basin Fruitland Coal

11. County or Parish, State

San Juan, NM

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☒ Other
- ☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection

Changes to drilling program

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

13. 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.)

Please see the attached revised drilling program (changes in formation tops, total depth, etc.).

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MAY 29 1990

OIL CON. DIV.
DIST. 3

Please contact Cindy Burton (303)830-5119 if you have any questions.

APPROVED

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

Signed

J. Hampton CEB

Title Sr. Staff Admin. Supr.

Date

4/27/90

(This space for Federal or State office use)

Approved by

Conditions of approval, if any:

Title

NMOCD

Ken Tamm

Date

FOR GREEN MOUNTAIN
FARMINGTON RESOURCE AREA

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 statement or representations as to any matter within its jurisdiction.

Date: 4/23/90

Lease & Well # Riddle Gas Com /C/ #1 Cty/St San Juan/NM FLAC NO.
Field Basin Fruitland Coal Gas Operation Center San Juan/Durango
Surf. Loc. 31N 9W Sec. 30 2120 FSL 890 FWL BHLOC same
Coal Degas # 225

CRITICAL WELL NON-CRITICAL WELL x

APPROXIMATE DEPTHS OF GEOLOGICAL MARKERS

ORIGINAL x REVISION #

ESTIMATED ELEVATION 6653 KB

LOGGING PROGRAM

TYPE DEPTH INTERVAL
FDC/GR/CAL TD to base of 7" casing
Microlog
Mudlogger TD to base of 7" casing

MARKER	TVD ELEV.	MEAS. DEPTH
Ojo Alamo	+4024	2629
Fruitland	+3555	3098
Ignacio Seam #	+3423	3230
Cottonwood Seam #	+3370	3283
Cahn Seam #	+3310	3343
Pictured Cliffs	+3240	3413

REMARKS Run FDC at slow speed, high sample rate. Bulk density presentation as per standard coal log format. Customer edit 8 track LIS tape to W. L. Pelzmann in Denver - ASAP.

TOTAL DEPTH +3245 3408

*POSSIBLE PAY #PROBABLE COMPLETION INTERVAL

NOTE Mudlogs will be the only log if the well is completed as an open hole. The log suite stated above will be run only if the well is deepened into the Pictured Cliffs.

DRILL CUTTING SAMPLES	DRILLING TIME
FREQUENCY DEPTH INTERVAL	DEPTH FREQUENCY INTERVAL
10' Base 7" csg.-TD	Geolograph BSC-TD

Remarks The Pictured Cliffs will not be penetrated if the well is completed successfully open hole. If the well is not a successful open hole completion, the well will be deepened to 3608'. Mudlogger to modify TD based on location of basal seam

MUD PROGRAM

Approximate Interval	Type Mud	Weight #/Gal.	Viscosity Sec. API	W/L CC/30M	Other Specifications
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0-250'	spud				
250'-int.csg pt.	LSND	8.6-8.9	Sufficient to clean hole.		
int. csg pt. -	water w/induced air for hole cleaning purposes.				
top of Pictured Cliffs					

Remarks: In the event the well does not yield commercial volumes of gas from the open hole completion, the water filled hole will be mudded up and weighted up (9-11 #/gal) with LSND mud for hole stability and well control. The well will then be deepened approximately 200' into the Pictured Cliffs to provide necessary footage for a cased and cemented completion technique to allow a fracture stimulation.

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

CASING STRING	EST. DEPTH	CASING SIZE	HOLE SIZE	SX CEMENT	TYPE CEMENT	DESCRIP. OF LANDING PT
SURFACE	250	9 5/8	12 1/4	to sfc.	**	
INTERMEDIATE	3170	7"	8 3/4	to sfc.	**	Above abnormally pressured coal seams
LINER CASING	TD	N/A	6 1/4	None	***	Open hole

Remarks: *** A contingency 5 1/2" liner will be run and cemented if the well is deepened into the Pictured Cliffs for a fracture stimulation. ** Operation Center to design.

WELLHEAD: 3,000 psi flanged equipment

COMPLETION PROGRAM Planned open hole completion. A contingency completion will require as many as two fracture stimulations.

GENERAL REMARKS: This well to be maintained in confidential status. Region is to provide statement in permit to regulatory agencies that indicates the Pictured Cliffs will be penetrated approximately 200' in the event the planned open hole completion in the coal seams does not yield a commercial volume of gas. The contingency plan to drill into the Pictured Cliffs will allow adequate rat hole for a cemented liner across the coal seam. The cemented liner will provide isolation for a necessary fracture stimulation to initiate a commercial volume of gas.

PREPARED BY:

G. E. Gray, W. L. Pelzmann, T. R. Enterline J. L. Spitler

APPROVALS:

PRODUCTION DEPARTMENT	DATE	EXPLORATION DEPARTMENT	DATE
a:riddlel.gcb disk 64			

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 intermediate casing point with a non-dispersed mud system. The attached modified 12" 3000 psi blowout preventer will be used. Amoco will attempt to complete the Fruitland coal by drilling the interval with water and air. A service unit will probably be used to drill into the coals using the attached modified 6" 3000 psi BOP. If commercial productivity is established, then the well will be completed as an open hole.

SURFACE CASING

<u>Quantity</u>	<u>Size</u>	<u>Weight</u>	<u>Description</u>	<u>Cement Program</u>
250'	9 5/8"	36#	K55 ST&C	200 cf Class B, 2% CaCl ₂ 15.6 ppg

INTERMEDIATE CASING

<u>Quantity</u>	<u>Size</u>	<u>Weight</u>	<u>Description</u>	<u>Cement Program</u>
3170'	7"	20#	K55 ST&C	888 cf Class B, 65:35:5 10% salt, .25% dispersant 13.1 ppg 118 cf Class B 2% CaCl ₂ 15.6 ppg

The above casing design is based upon a 9.0#/gallon mud weight.

CONTINGENCY OPERATIONAL PLAN

In the event the well does not yield commercial volumes of gas from the open hole completion, the water filled hole will be mudded-up and weighted-up as necessary (9-11#/gal.) for hole stability and well control. The well will then be deepened approximately 200' into the Pictured Cliffs formation to provide necessary footage for a cased and cemented completion technique. The Fruitland coals will then be perforated and fracture stimulated. The Pictured Cliffs formation will be isolated with cement.

CONTINGENCY LINER

650'	4-1/2"	11.6#	K55 LT&C	250 cf Class B
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The contingency string is based upon an 11.0#/gallon mud weight.

EVALUATION

Mud logs will be the only logs run if the well is completed as an open hole. The log surveys (FDC/GR/CAL; Microlog, Mudlogger) will be run only if the well is drilled into the Pictured Cliffs formation, and only if well condition is suitable to allow proper wireline log interpretation.

apdatt.clb disk 210

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

890' FWL, 2120' FSL NE/SW

At proposed prod. zone

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 drlg. unit line, if any) 890'

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

16. NO. OF ACRES IN LEASE
1240.80 905.92

19. PROPOSED DEPTH
3405' TD

17. NO. OF ACRES ASSIGNED
TO THIS WELL
320 acres W 1/2 299.10

20. ROTARY OR CABLE TOOLS
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
6641' GR This action is subject to technical and
procedural review pursuant to 43 CFR 3165.2
and appeal procedure in 43 CFR 3165.4.

22. APPROX. DATE WORK WILL START*
As soon as permitted

23. PROPOSED CASING AND CEMENTING PROGRAM
DRILLING OPERATIONS AUTHORIZED ARE
SUBJECT TO COMPLIANCE WITH ATTACHED
"GENERAL REQUIREMENTS"

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	9 5/8"	36#	250'	200 cf Class B (cement to surface)
8 3/4"	7"	20#	3165'	886 cf Class B (cement to surface)
6 1/4"	4 1/2"	23# 11.6	3405' (TD)	None *

Notice of Staking was Submitted: 3/19/90

Lease Description:

T31N-R9W:

Sec. 29: Lots 1,2,3,5-12

Sec. 30: Lots 5,6,8-19

Sec. 31: Lots 5-12

Sec. 32: Lots 2,3

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MAY 07 1990
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. SIGNED J. L. Hampton/CUB TITLE Sr. Staff Admin. Supervisor DATE 4/5/90

(This space for Federal or State office use)

PERMIT NO. APPROVAL DATE

APPROVED BY TITLE

CONDITIONS OF APPROVAL, IF ANY:

NMOCD

APPROVED
AS AMENDED
MAY 04 1990
for AREA MANAGER

*See Instructions On Reverse Side

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
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

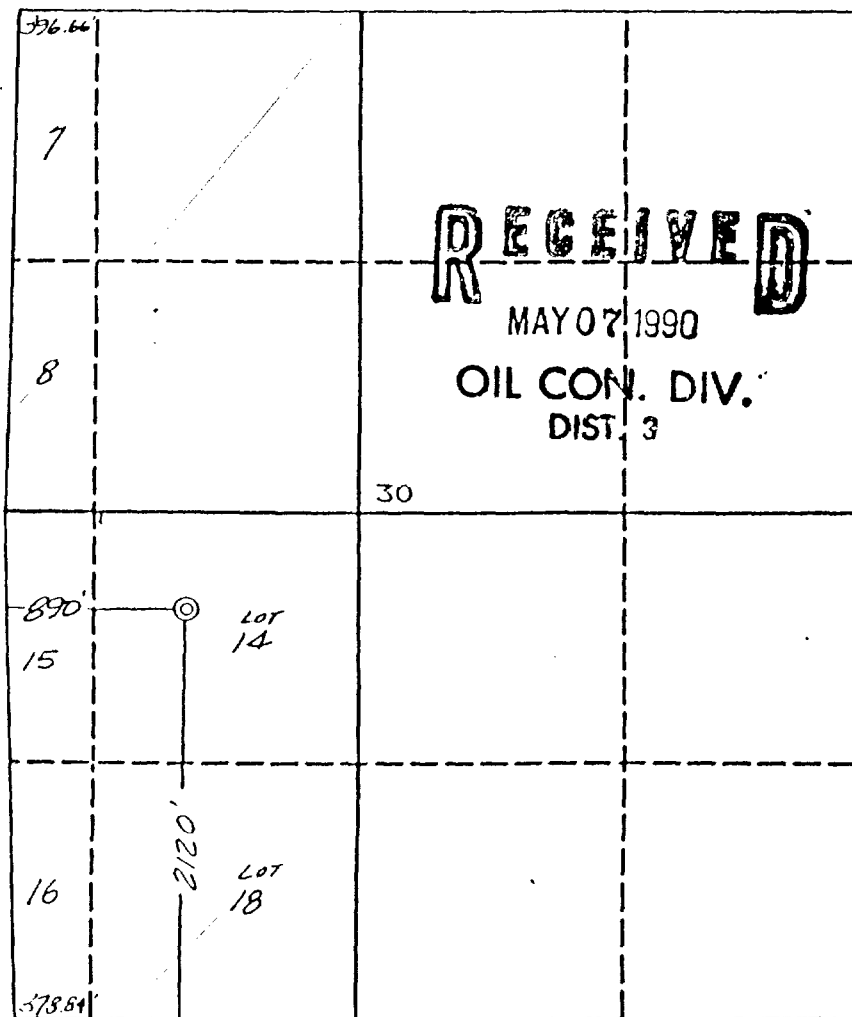
Operator AMOCO PRODUCTION COMPANY			Lease RIDDLE GAS COM /C/		Well No. # 1
Unit Letter K	Section 30	Township 31 NORTH	Range 9 WEST	County SAN JUAN	

Actual Footage Location of Well:

2120 feet from the SOUTH line and 890 feet from the WEST line

Ground level Elev. 6641	Producing Formation Fruitland Coal	Pool Basin Fruitland Coal Gas W/2	Dedicated Acreage: 299.10 Acres
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- 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.

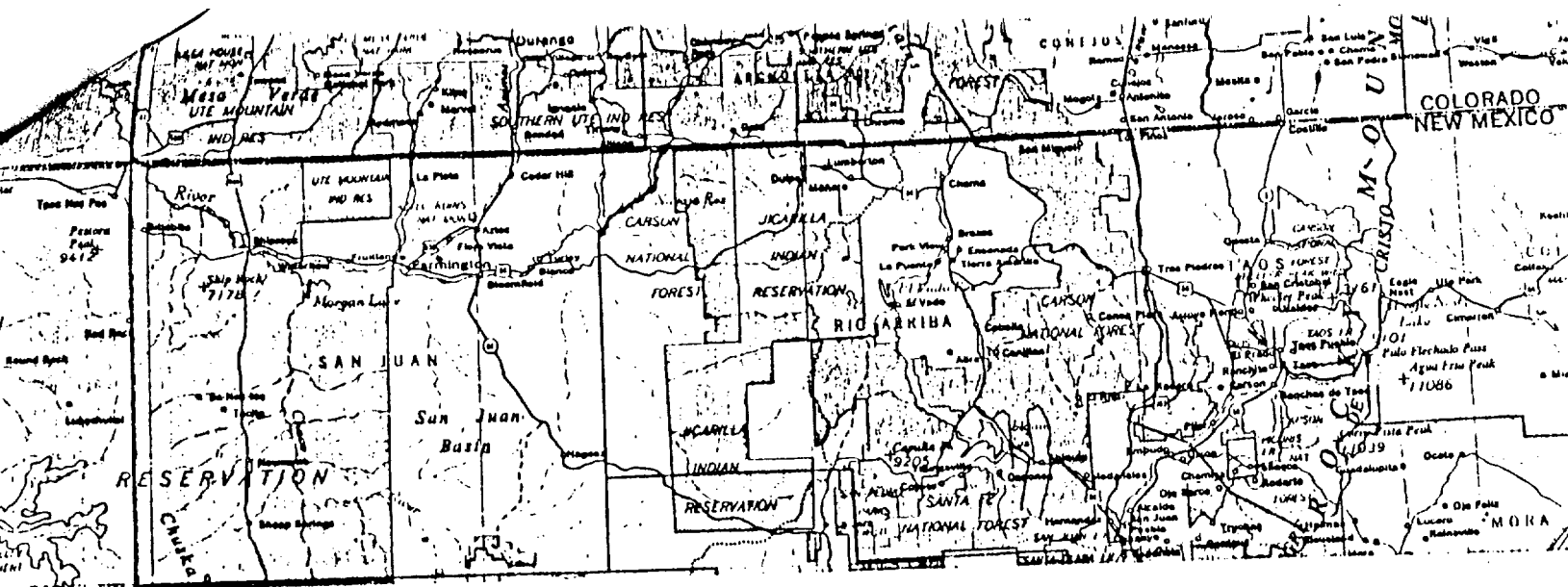
Signature *J. L. Hampton*
Printed Name **J. L. Hampton**
Position **Staff Admin Supr**
Company **Amoco Prod. Company**
Date **3/16/90**

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 **March 5, 1990**

Signature & Seal of Professional Surveyor
GARY D. VANN
NEW MEXICO
REGISTERED
7016
PROFESSIONAL LAND SURVEYOR



RIDDLE GAS COM /C/ # 1
 2120' F/SL 890' F/WL
 SEC. 30, T31N, R9W, NMPM
 RAIL POINT: 163 miles - Montrose, Co.
 MUD POINT: 21 miles - Aztec, NM
 CEMENT POINT: 35 miles - Farmington, NM

