



June 3, 1997

Mr. William J. LeMay, Director
New Mexico Oil Conservation Division
2040 S. Pacheco Street
P.O. Box 6429
Santa Fe, NM 87505

**Amoco Production Company
San Juan Business Unit**

1670 Broadway
Post Office Box 800
Denver, Colorado 80201
303-830-4040

**Application For Deviated Wellbore - Rule 111.C.
Nye LS #1A
Unit O Section 23-T31N-R11W
Blanco Mesaverde Pool
San Juan County, New Mexico**

RECEIVED
JUL 16 1997

OIL CON. DIV.
DIST. 3

Amoco Production Company hereby requests administrative approval to enter the existing wellbore in the Nye LS #1A well referenced above and directionally drill the well in the Blanco Mesaverde Pool. The well is currently completed as a marginal producing well in the Blanco Mesaverde Pool. Directionally drilling the well will help place the wellbore away from the original openhole completion and provide an opportunity to encounter the naturally occurring fracture system in the Mesaverde formation which will increase the producing rate and ultimate recovery of gas for this well. We are requesting the Project Area for this well to be the Blanco Mesaverde gas proration unit consisting of the E/2 Section 23-T31N-R11W with the Producing Area for the well to consist of a rectangle inside the gas proration unit that is not closer than 790' from the outer boundaries of the gas proration unit.

In accordance with Rule 111-D.(2), attached to aid in your review are:

- 1) a plat showing the well location, project area and producing area for the project well and the offset spacing units, their wells and operators;
- 2) a vertically oriented plan view for the project well showing top and bottom of the pool, degree of angle to be built, kickoff point, penetration point and lateral length;
- 3) a horizontal plan view for the project well showing the project area, producing area, estimated azimuth and maximum length of the lateral;
- 4) a type log section identifying the top and bottom of the pool.

As notification, a copy of this application will be sent by certified mail return receipt requested to the offset operators shown on the attached list advising them that if they have any objection, it must be filed in writing within (20) days of the date notice was sent.

Sincerely,

Pamela W. Staley

Attachments

cc: Mark Rothenberg, Amoco
Pat Archuleta, Amoco

DATA SUMMARY SHEET

WELLNAME
Nye LS #1A

API
30-045-23047

LOCATION
Unit O Section 23-T31N-R11W

ACREAGE IN SPACING UNIT
E/2 SPACING UNIT - 320 ACRES

LOCATION FOOTAGES
1080 FSL X 1590 FEL

STANDARD LOCATION?
YES

OTHER WELL(S) PRODUCING IN SPACING UNIT IN MESAVERDE POOL
NYE LS #1 (UNIT A) 30-045-10591

REASON FOR DEVIATION OR DIRECTIONAL DRILLING
SIDETRACK TO GET AWAY FROM DAMAGED WELLBORE

KICKOFF POINT
2500' @3 DEGREES PER 100'

DIRECTION TO BE DRILLED
INDETERMINANT

TYPE CURVE
HIGH ANGLE

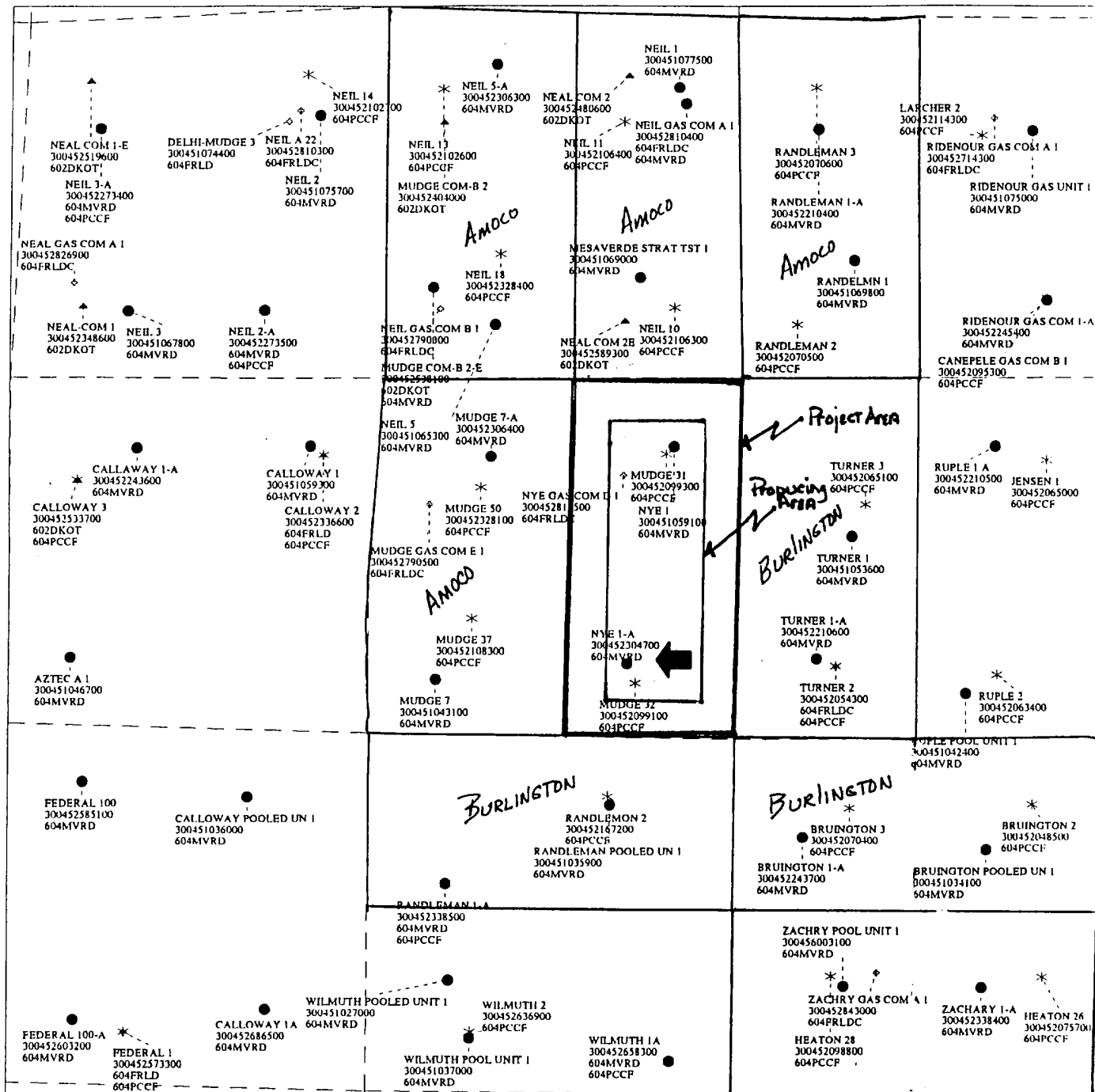
LATERAL DISTANCE FROM VERTICAL OR ORIGINAL WELLBORE
MAXIMUM 290' TO STAY AT AN ORTHODOX BOTTOMHOLE LOCATION

OFFSET OPERATOR LIST

Nye LS #1A

Burlington Resources Oil and Gas Co.
P.O. Box 4289
Farmington, NM 87499

NYE LS 1A



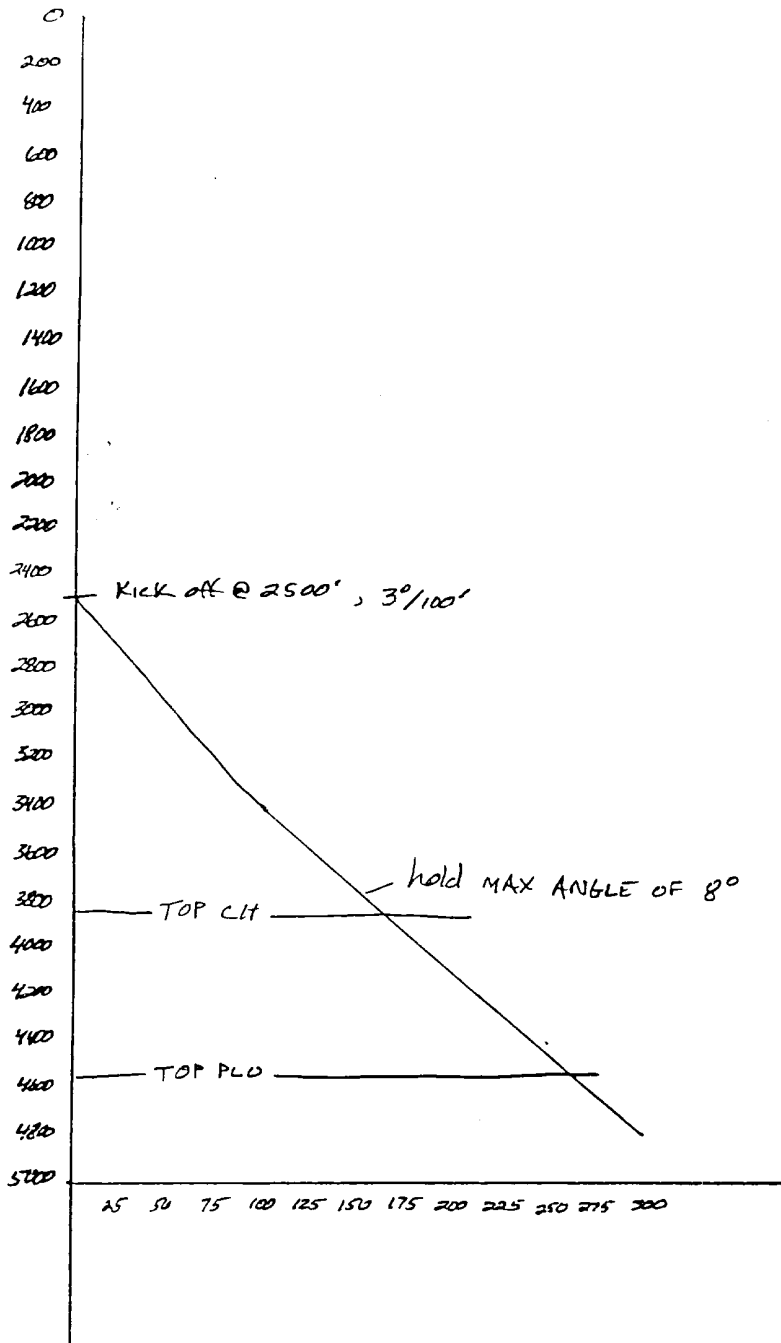
R11W

Amoco Production Company

ENGINEERING CHART

SUBJECT NYE LS 1 A

Sheet No _____
 File _____
 Appn _____
 Date _____
 By _____



ENGINEERING CHART

SUBJECT NYE LS 1A

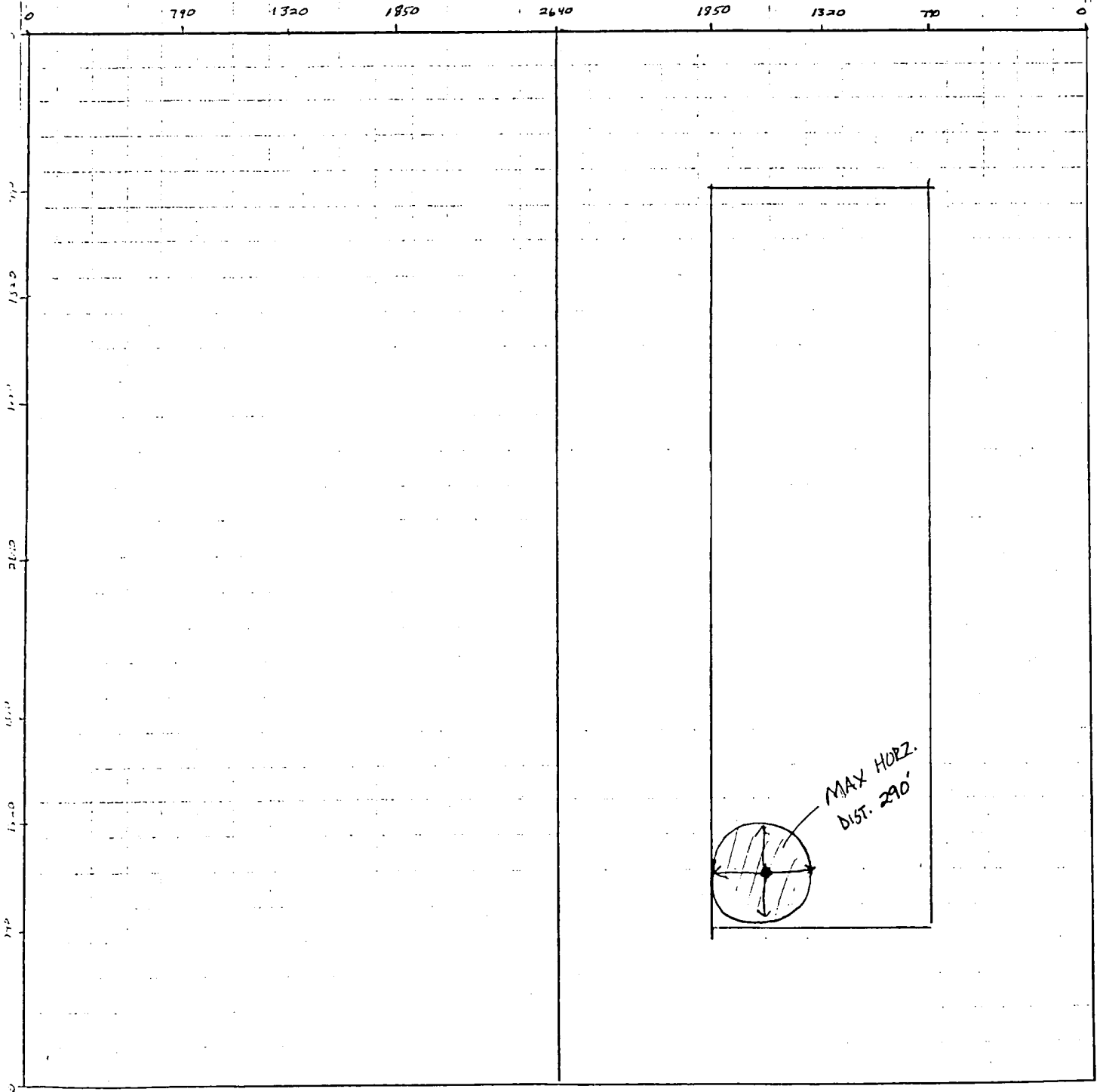
1080' FSL X 1590' FEL

File _____

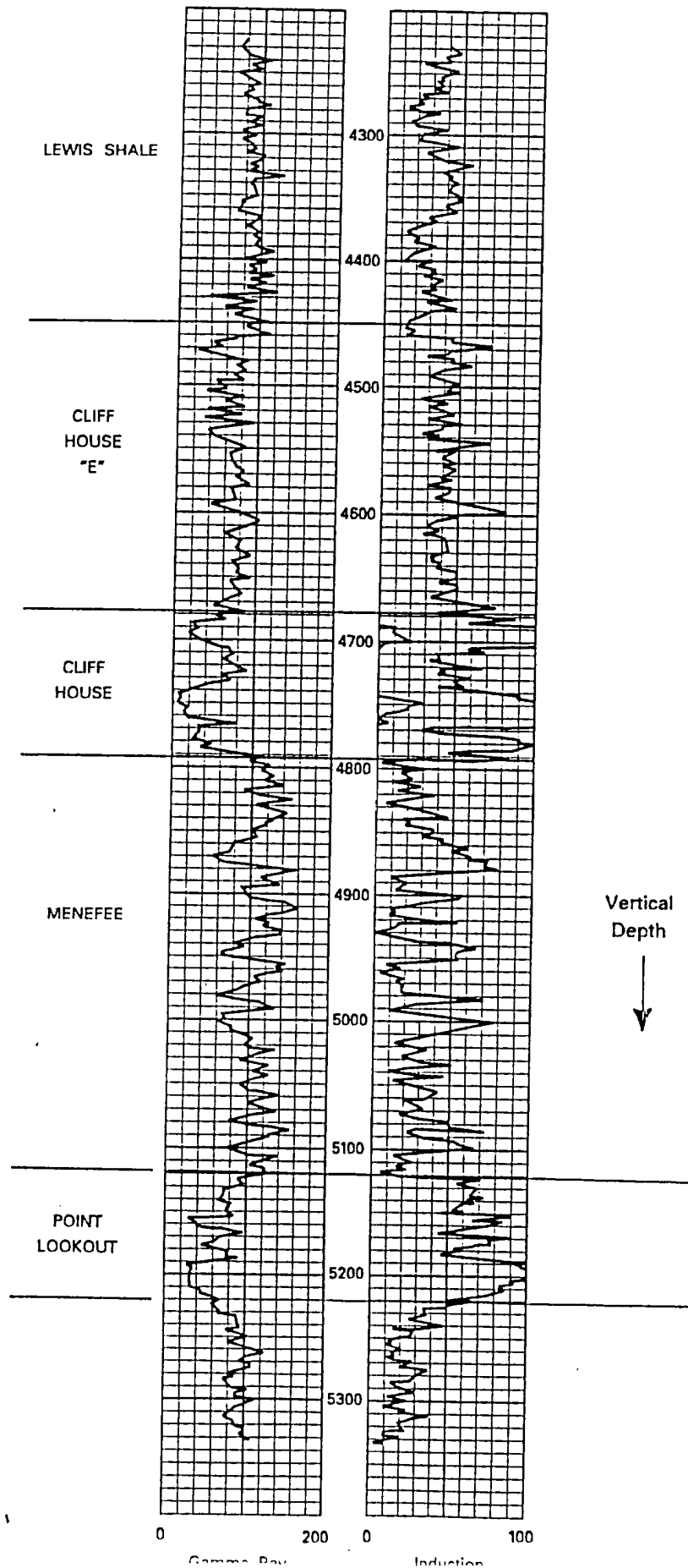
Appn _____

Date _____

By _____



Typical M.V. Log
T32N, R10W
San Juan County, New Mexico



Porosity Scale
 0.5 1.0 1.5 2.0
 0.5 1.0 1.5 2.0
 0.5 1.0 1.5 2.0
 0.5 1.0 1.5 2.0
 0.5 1.0 1.5 2.0

20 TK
 65
 0
 200

CALIPER DIAM. IN INCHES

0 15

GAMMA RAY API UNITS

0 200
200 400

CORRECTION GRAMS CC

Use this scale when correction curve is presented in Track 3

25 0 25

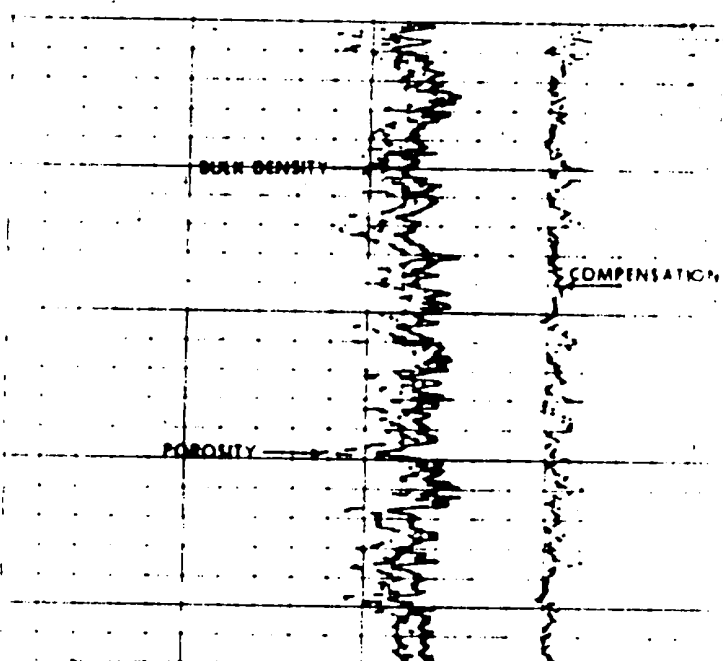
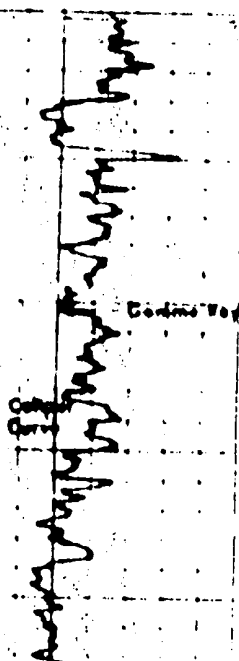
BULK DENSITY GRAMS CC

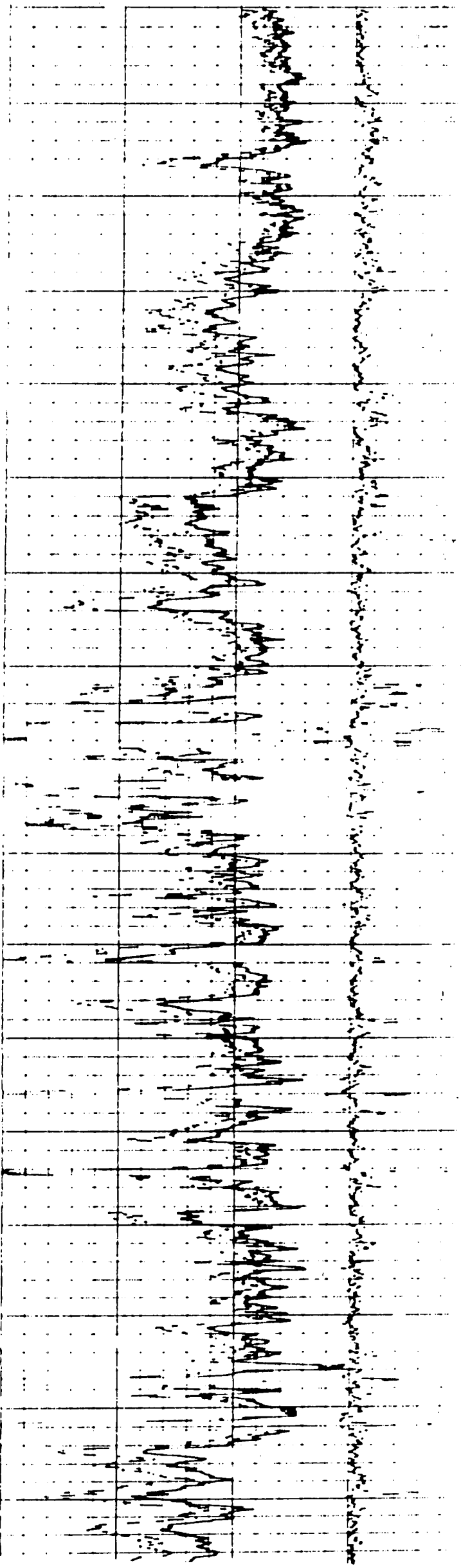
2.0 2.5 3.0
1.0 1.5 2.0

SANDSTONE POROSITY %

6 16 6 4 2 0
GRAIN DENSITY 2.65 GRAMS CC

LR 5





60

60

60

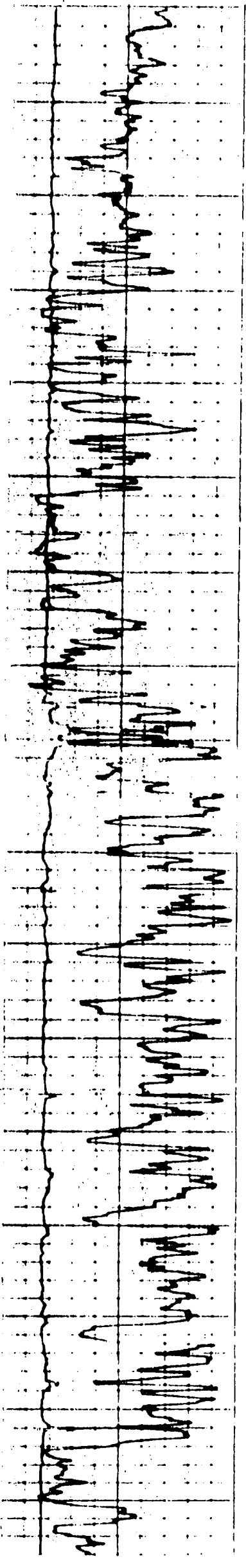
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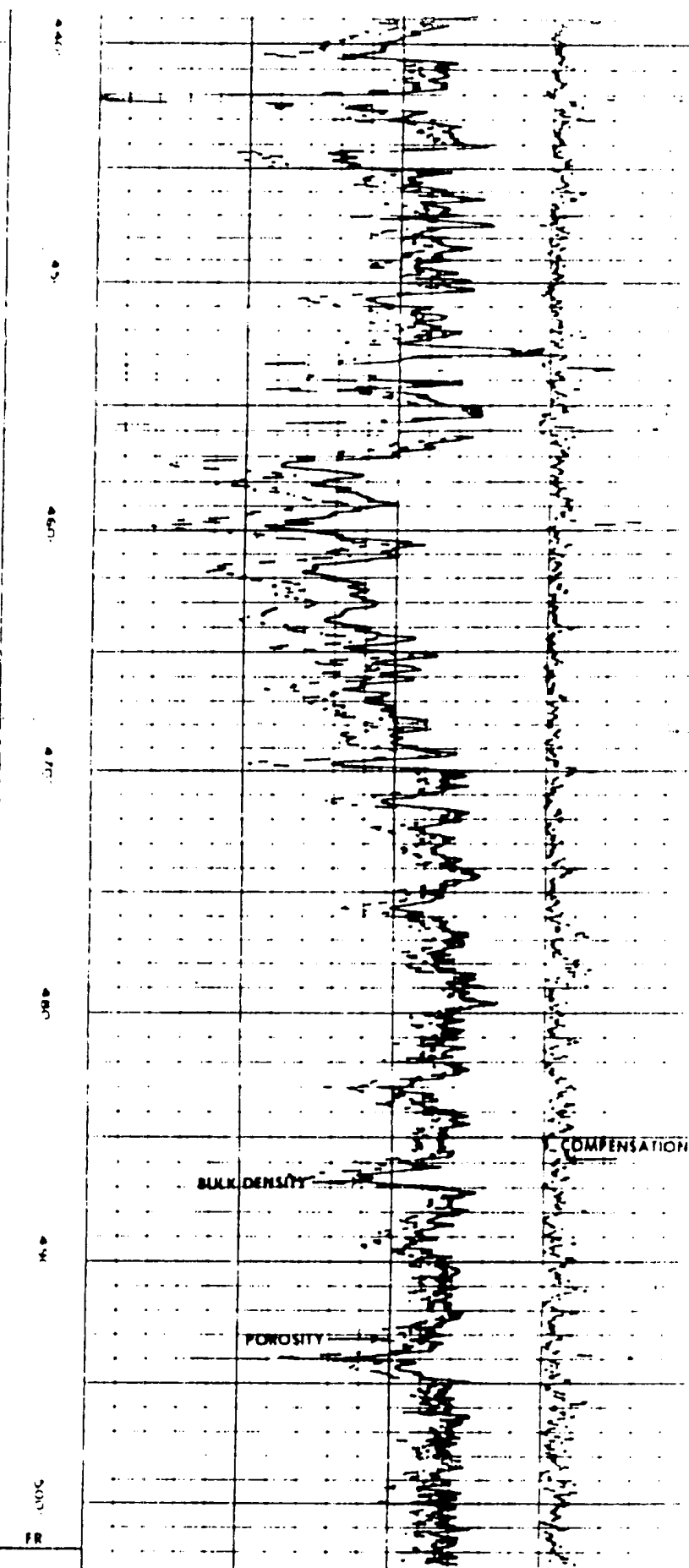
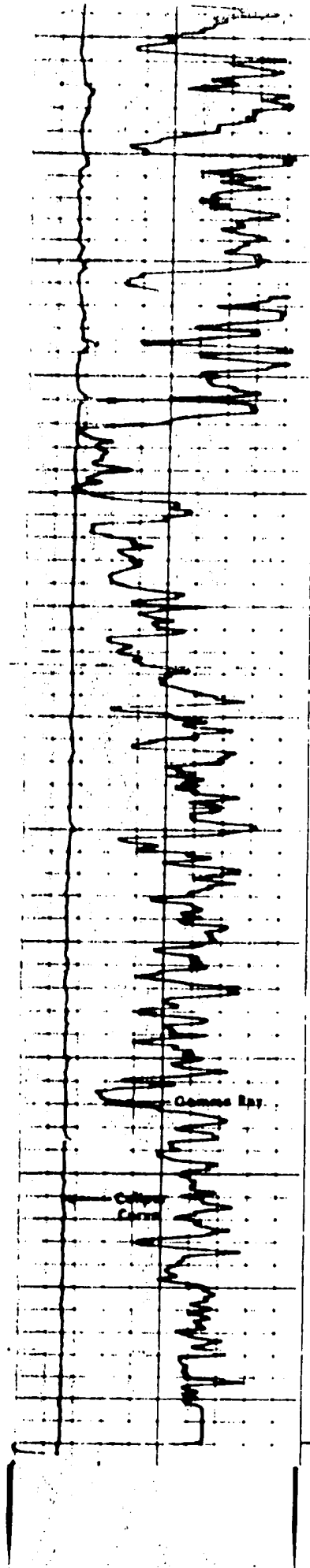
60

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SANDSTONE POROSITY -- %

6	16	6	4	2	0
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DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
311 South First., Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

2040 South Pacheco
Santa Fe, New Mexico 87505

Form C-102
Revised October 18, 1994
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 3004523047	Pool Code 72319	Pool Name Blanco Mesaverde
Property Code 000934	Property Name Nye LS	Well Number 1A
OGRID No. 000778	Operator Name AMOCO PRODUCTION COMPANY	Elevation 5689

Surface Location

UL or lot no. UNIT O	Section 23	Township 31N	Range 11W	Lot. Idn	Feet from the 1080	North/South Line SOUTH	Feet from the 1590	East/West Line EAST	County San Juan
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Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West Line	County
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Dedicated Acreage:	Joint or Infill	Consolidation Code	Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

	OPERATOR CERTIFICATION		
	<i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief</i>		
	Signature		
	Printed Name Pat Archuleta		
Position Staff Assistant			
Date			
SURVEY CERTIFICATION			
<i>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.</i>			
04/11/1978			
Date of Survey			
Signature & Seal of Professional Surveyor			
Fred B. Kerf Jr.			
Certificate No. 3950			

WELL LOCATION AND ACREAGE DEDICATION PLAT

Supersedes C-128
Effective 1-1-65

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

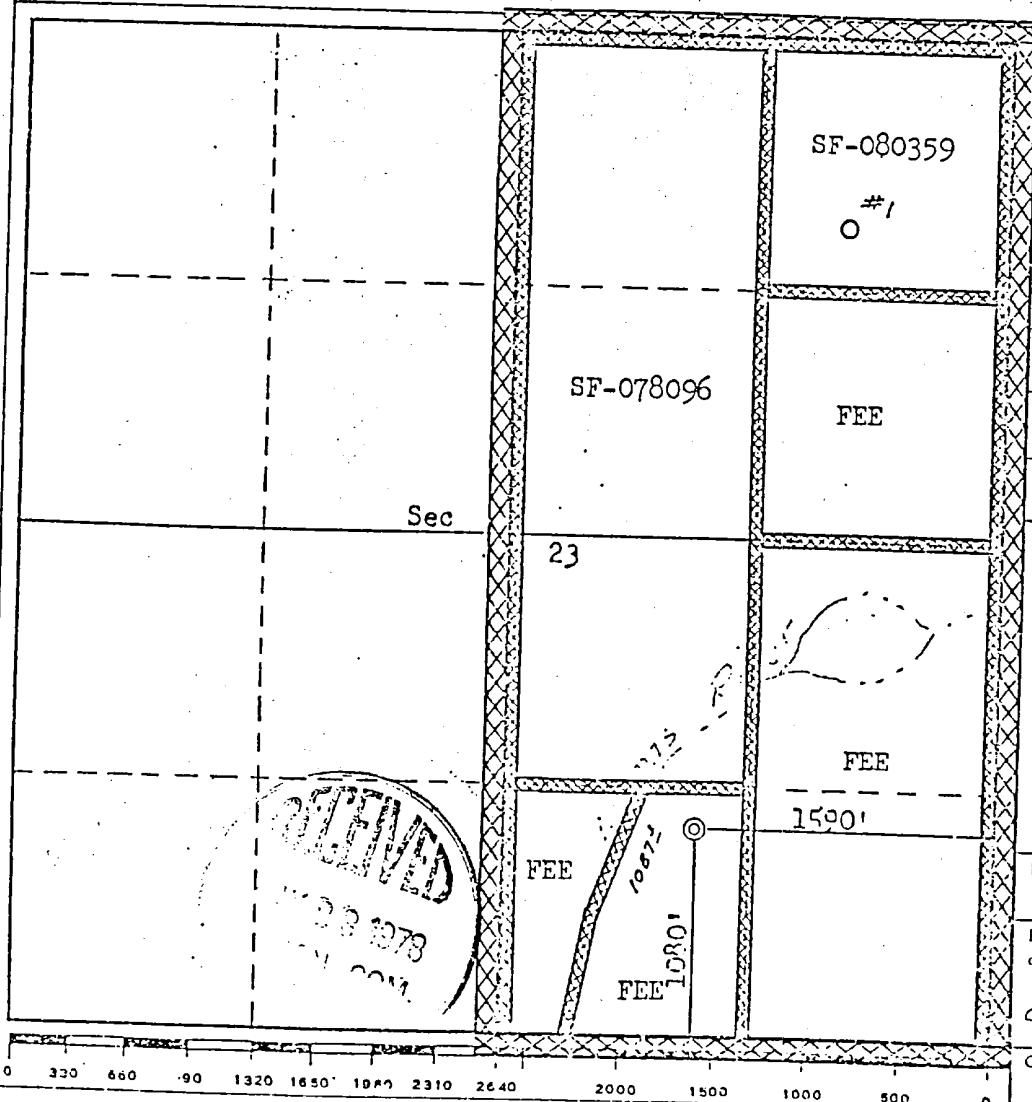
Operator EL PASO NATURAL GAS COMPANY			Lease Nye (FEE)		Well No. 7A
Unit Letter 0	Section 23	Township 31N	Range 11W	County San Juan	
Actual Footage Location of Well: 1080 feet from the South line and 1590 feet from the East line					
Ground Level Elev. 5689	Producing Formation Mesa Verde		Pool Blanco Mesa Verde	Dedicated Acreage: 320.00 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 Communitization

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.



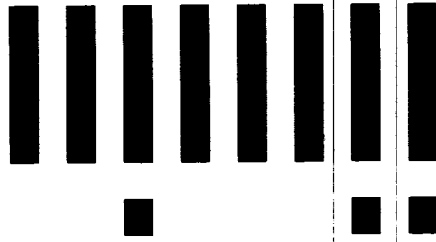
CERTIFICATION

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

D. G. Lued
Name
Drilling Clerk
Position
El Paso Natural Gas Co.
Company
5-18-78
Date

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
April 11, 1978
Registered Professional Engineer
and/or Land Surveyor
Fred B. Kerr
Fred B. Kerr
Certificate No. 3950
KTRP, IS.



LTR



Job separation sheet

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

OIL CONSERVATION DIVISION

P.O. Box 2008
Santa Fe, New Mexico 87504-2008

RECEIVED
FEB 11 1998

WELL API NO. 3004523047
5. Indicate Type of Lease STATE ☐ FEE ☒
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name NYE LS
8. Well No. 1A
9. Pool name or Wildcat Blanco Mesaverde
10. Elevation (Show whether DF, RKB, RT, GR, etc.) 5689 GR

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"
(FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: OIL WELL ☐ GAS WELL ☒ OTHER
2. Name of Operator Amoco Production Company
3. Address of Operator P. O. Box 800, Denver, Colo. 80201 (303) 830-6157
4. Well Location Unit Letter 0 : 1080 Feet From The South Line and 1590 Feet From The East Line Section 23 Township 31N Range 11W NMPM San Juan County

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data	
NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK ☐	REMEDIAL WORK ☐
TEMPORARILY ABANDON ☐	ALTERING CASING ☐
PULL OR ALTER CASING ☐	COMMENCE DRILLING OPNS. ☐
OTHER: ☐	PLUG AND ABANDONMENT ☐
	CASING TEST AND CEMENT JOB ☐
	OTHER: Sidetrack ☒

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

MIRUSU 8/15/97.

Blow well down, NDWH, NUBOP's. TOH with 2-3/8" tubing. TIH with 4-1/2" scraper to 3900'. TOH lay down scraper. TIH with CIBP and set at 3850'. Load and tst to 500# for 15 minutes. Held okay. Spot 25 sxs of Class B cmt on top of CIBP.

TIH with 7" scraper to 2705'. TOH lay down tubing and scraper. Run CBL from 50' to 3440'. Good bond from 3440' to 1650', poor bond from 1650' to 955', good bond from 955' to 200', poor bond from 200' to surface. Set CIBP at 2508'. Pressure test casing to 750# for 15 minutes. Held okay. RDMOSU 8/22/97.

TIH with 7" whipstock set at 2508'. Mill in window, Top of window at 2494' bottom at 2502'. Circ hole clean. TOH lay down drill pipe, collars and mill. NUWH, RDMOSU 8/22/97.

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

SIGNATURE Paul M. Jefferson TITLE Sr. Admin. Staff Asst. DATE 2/9/98

TYPE OR PRINT NAME TELEPHONE NO.

(This space for State Use)

APPROVED BY ORIGINAL SIGNED BY ERNEST BUSH TITLE DEPUTY OIL & GAS INSPECTOR, DIST. #3 DATE FEB 16 1998

CONDITIONS OF APPROVAL, IF ANY:

Nye LS #1A - Sidetrack Operations (cont'd)

MIRUSU 11/3/97. Kick off from 2502' and drill to 4950'. Set 4-1/1", 11.6# J-55 casing at 4929'. Cmt casing from 2110' to 4929' with 190 sxs Class B cmt. Test 4-1/2" casing to 3000# for 30 minutes. Held okay.

Ran GR and TMD logs from 3659' to 4823'. Ran CCL, GR and CBL from 598' to 4822'. TOC at 2110'.

Perforated at 4331', 4363', 4475', 4527', 4536', 4542', 4548', 4609', 4617', 4624', 4630', 4636', 4651', 4657', 4666', 4674', 4679', 4692', 4702', 4710', 4735', 4754', with 1 jsf., .340 inch diameter, total 22 shots fired.

Acidized with 18 bbls 7.50% acid. Good ball action and complete ball off twice. Knock ball off with wire line junk basket. Frac'd with 131,400# of 16/30 Arizona sand.

Flow test and clean out well.

TIH set CIBP at 4281'. Blow down casing and RD frac head. NUBOP, TIH picking up mill and 2-7/8" tubing. Finished picking up tubing and tag BP at 4281'. Drill out plug and circ hole clean. TIH and tag fill at 4682'. Clean out sand to PBTD of 4884'. TOH with tubing and mill. TIH with tbg and set at 4660'.

Flow well on 3/4" choke for 24 hrs, Flowed 1918 mcfd, 0 wtr, trace of oil. FTP 111#, FCP 240#.

RDMOSU 11/19/97.