



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 October 10, 1985

RE: Proposed MC _____
Proposed DHC a _____
Proposed NSL _____
Proposed SWD _____
Proposed WFX _____
Proposed PMX _____

Gentlemen:

I have examined the application dated September 30, 1985
for the Amow Abrams L #1A I-26-29N-10W
Operator Lease and Well No. Unit, S-T-R

and my recommendations are as follows:

Approve

Yours truly,

Erin Day

September 27, 1985

New Mexico Oil Conservation Division
Attn: David Catanach
P. O. Box 2088
Santa, Fe, NM 87501

File: DDL-1100-400.1

Gentlemen:

Commingling Application
Abrams "L" No. 1A
Section 26, T29N, R10W
San Juan County, New Mexico

RECEIVED
SEP 30 1985
OIL CON. DIV. 1
DIST. 3

Amoco Production Company requests approval to commingle production from the Armenta Gallup and Blanco Mesaverde horizons in the subject well. Commingling is requested for these reasons:

- 1) The 5 1/2" casing is too small for a dual string.
- 2) Producing rates from the Gallup are marginally economical.
- 3) If commingled, the strong Mesaverde will help produce remaining Gallup reserves.

The working interest and royalty of both zones are the same and bottom hole pressure of the Gallup is within 50 percent of the bottom hole pressure of the Mesaverde. Formation fluids are compatible.

In view of Rule 303C, we have attached 2 copies of the following:

1. Acreage Plat indicating ownership of offset leases
2. Well Completion Reports
3. Bottom hole pressures
4. Recommended Allocation Formula
5. Copy of notification to offset operations
6. Form C-116

Since this well is a recent completion, we are unable to supply production decline curves.

100-443881-2

Page 2
File: DDL-1100-400.1
September 27, 1985

Thank you for your earliest attention to this application.

Yours very truly,

Original Signed
R. J. Broussard
By OCL

MEM/ct

Attachments

✓cc: NMOCD - Aztec, NM

AM5

RECEIVED
SEP 30 1985
OIL CON. DIV.)
DIST. 3

1. The first part of the document is a list of the names of the persons who have been appointed to the various positions of the Board of Directors of the Corporation.

2. The second part of the document is a list of the names of the persons who have been appointed to the various positions of the Board of Directors of the Corporation.

3. The third part of the document is a list of the names of the persons who have been appointed to the various positions of the Board of Directors of the Corporation.

4. The fourth part of the document is a list of the names of the persons who have been appointed to the various positions of the Board of Directors of the Corporation.

5. The fifth part of the document is a list of the names of the persons who have been appointed to the various positions of the Board of Directors of the Corporation.

6. The sixth part of the document is a list of the names of the persons who have been appointed to the various positions of the Board of Directors of the Corporation.

7. The seventh part of the document is a list of the names of the persons who have been appointed to the various positions of the Board of Directors of the Corporation.

8. The eighth part of the document is a list of the names of the persons who have been appointed to the various positions of the Board of Directors of the Corporation.

9. The ninth part of the document is a list of the names of the persons who have been appointed to the various positions of the Board of Directors of the Corporation.



Amoco Production Company

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

R. J. Broussard
District Manager

September 26, 1985

El Paso Natural Gas Company
P. O. Box 990
Farmington, NM 87499

Mesa Petroleum
P. O. Box 579
Flora Vista, NM 87415

Schrage
(address unknown)

File: DDL-1096-400.1

Gentlemen:

Commingling Application
Abrams L No. 1A
Sec. 26I, T29N, R10W
San Juan County, New Mexico

Amoco Production Company has applied for approval to commingle the Gallup and Mesaverde horizons in the subject well. If you have any objections, you have 20 days to notify the New Mexico Oil Conservation Division. If you do not respond within 20 days, your approval will be assumed.

Sincerely,

DLD/ct

AM5

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OIL CON. DIV.
DIST. 3

Proposed Allocation Formula

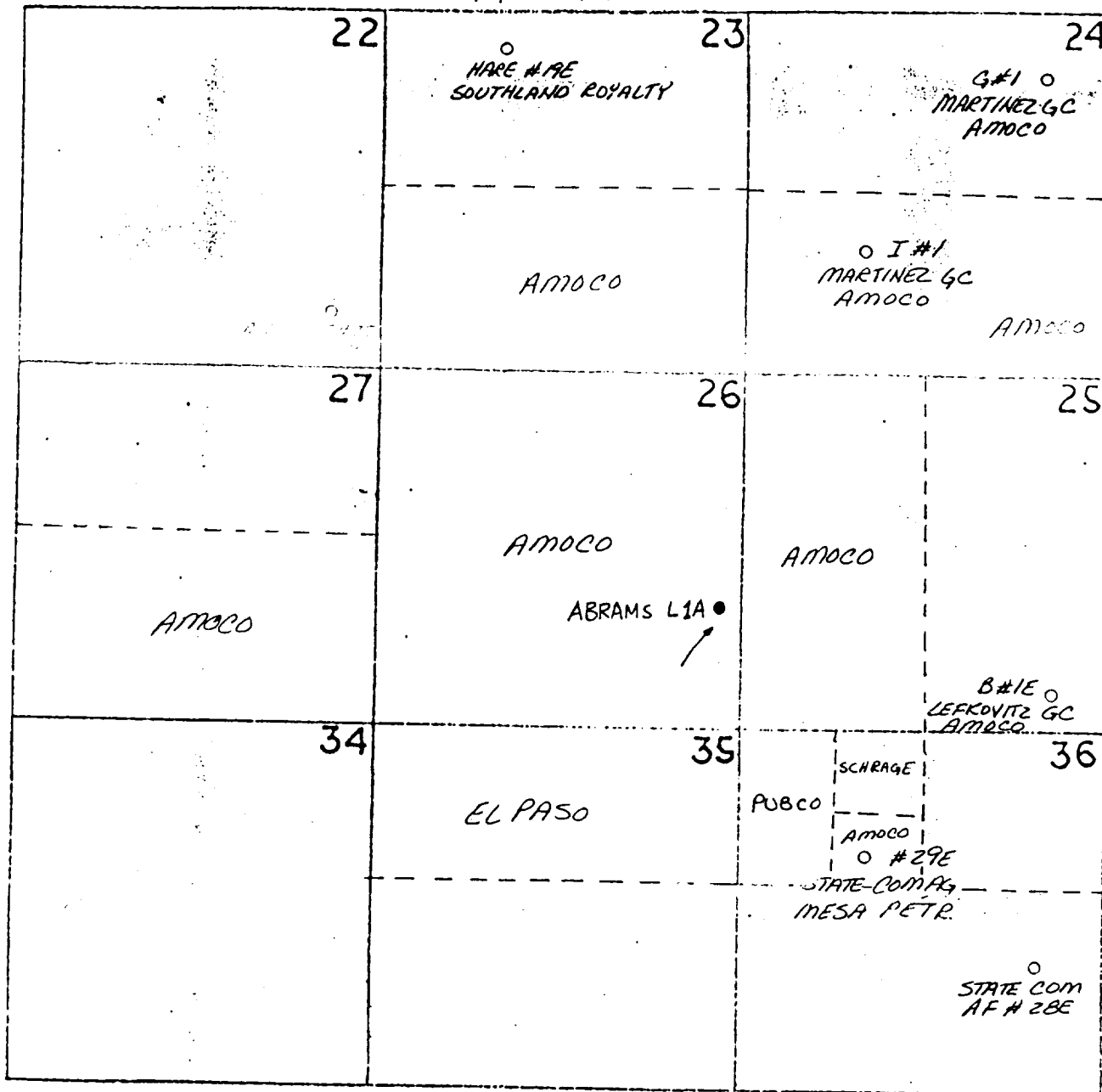
	<u>Gas</u>	<u>Oil</u>
Armenta Gallup	51 MCFD	9 BOPD
Blanco Mesaverde	<u>717 MCFD</u>	<u>1 BOPD</u>
	<u>768 MCFD</u>	<u>10 BOPD</u>

	<u>Gas</u>	<u>Oil</u>
Armenta Gallup	7%	90%
Blanco Mesaverde	<u>93%</u>	<u>10%</u>
	<u>100%</u>	<u>100%</u>

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DIST. 3

L 1000

R 10W



○ BLANCO MESAVERDE WELLS
● PROPOSED WELL

SEP 30 1985
OIL CON. DIV.
DIST. 3

GL 5554'
KB 5567'

11 3/4" 42# H-40 CSA
302' X 510 C.F. CMT

MESAVERDE PERFORATIONS:
3536'-4508'

GALLUP PERFORATIONS:
5378'-5492'
5514'-5580'
5590'-5692'

SLIDING SLEEVE @ 5297'
PACKER @ 5300'
2 3/8" 4.7# J-55
TBG @ 5705'

TD 5900'
PBD 5858'

5 1/2" 15.5# K-55 CSA
5900' X 2991 C.F. CMT

SEP 30 1981

OIL CON.

Amoco Production Company

DIST. 2

SCALE:

ABRAMS K #1 (RENAMED ABRAMS L #1A)

DRG.
NO.

NO COPIES RECEIVED
DISTRIBUTION
SANTA FE
FILE
U.S.G.S.
LAND OFFICE
OPERATOR

DDI
TKA
GOM
BC
BMH
BJW
TWE
YLS

NEW MEXICO OIL CONSERVATION COMMISSION
WELL COMPLETION OR RECOMPLETION REPORT AND LOG

Form C-105
Revised 8-4-8

5a. Indicate Type of Lease
State ☐ Fee ☒
5. State Oil & Gas Lease No.

APR 30 1985

CON. DIV.
DIST. 3

1a. TYPE OF WELL

b. TYPE OF COMPLETION

OIL WELL ☐ GAS WELL ☒ DRY ☐

OTHER

7. Unit Agreement Name

8. Farm or Lease Name

Abrams # L

9. Well No.

1 A

10. Field and Pool, or Wildcat

Blanco Mesa Verde

2. Name of Operator

Amoco Production Co.

3. Address of Operator

501 Airport Drive, Farmington, N M 87401

4. Location of Well

UNIT LETTER I LOCATED 1850 FEET FROM THE south LINE AND 350 FEET FROM

THE east LINE OF SEC. 26 TWP. 29N RGE. 10W

12. County

San Juan

15. Date Spudded

5/7/83

16. Date T.D. Reached

5/14/83

17. Date Compl. (Ready to Prod.)

3/26/85

18. Elevations (DF, RKB, RT, GR, etc.)

5567' GR

19. Elev. Casinghead

5567'

20. Total Depth

5900'

21. Plug Back T.D.

5858'

22. If Multiple Compl., How Many
TWO

23. Intervals Drilled By

Rotary Tools
Rotary

Cable Tools

24. Producing Interval(s), of this completion - Top, Bottom, Name

4508'-3536' Mesa Verde

25. Was Directional Survey Made

Yes

26. Type Electric and Other Logs Run

DIL-SP-GR, FDC-CNL-GR-CAL

27. Was Well Cored

No

CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
11-3/4"	42# H40	302'	14-3/4"	510c.f. Class B w/2% CaCl ₂	2 Circ. to
5-1/2"	15.5# K-55	5900'	7-7/8"	surface 1) 1117c.f Class B 50:50 Poz	tailed in w/177c.f Class B Neat
				(see attached)	

LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
					2-3/8"	5710'	5300'

31. Perforation Record (Interval, size and number)

4174'-4186', 4186'-4206', 4210'-4228',
4233'-4248', 4259'-4274', 4284'-4313',
4322'-4355', 4370'-4508', 2 jspf, .54"
total of 560 holes. (see attached)

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
4174'-4508'	220,000 gal 20# gel and
	290,000 # 10-20 sand
3536'-4010'	360,000 gal 20# gel and
	510,000 # 10-20 sand

PRODUCTION

Date First Production 4/11/85 Production Method (Flowing, gas lift, pumping - Size and type pump) Flowing Well Status (Prod. or Shut-in) Shut-in

Date of Test 4/12/85 Hours Tested 3 hrs Choke Size .75" Prod'n. For Test Period Oil - Bbl. Gas - MCF Water - Bbl. Gas - Oil Ratio
670

Flow Tubing Press. None Casing Pressure 435 psig Calculated 24-Hour Rate Oil - Bbl. Gas - MCF Water - Bbl. Oil Gravity - API (Corr.)
5363

Disposition of Gas (Sold, used for fuel, vented, etc.)

To be sold

Test Witnessed By

J.J. Barnett

List of Attachments

Items #28 Cementing Record, #31 Perforation Record

I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.

SIGNED BD Shaw TITLE Adm. Supervisor

DATE 4/26/85

This form is to be filed with the appropriate District Office of the Commission not later than 30 days after the completion of any newly-drilled well. It shall be accompanied by a copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, items 30 through 34 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico

Northwestern New Mexico

T. Anhy _____	T. Canyon _____	T. Ojo Alamo <u>537</u>	T. Penn. "B" _____
T. Salt _____	T. Strawn _____	T. Kirtland-Fruitland <u>1395</u>	T. Penn. "C" _____
B. Salt _____	T. Atoka _____	T. Pictured Cliffs <u>1880</u>	T. Penn. "D" _____
T. Yates _____	T. Miss _____	T. Cliff House <u>3450</u>	T. Leadville _____
T. 7 Rivers _____	T. Devonian _____	T. Menefee <u>3566</u>	T. Madison _____
T. Queen _____	T. Silurian _____	T. Point Lookout <u>4170</u>	T. Elbert _____
T. Grayburg _____	T. Montoya _____	T. Mancos <u>4420</u>	T. McCracken _____
T. San Andres _____	T. Simpson _____	T. Gallup <u>5380</u>	T. Ignacio Qtzite _____
T. Glorieta _____	T. McKee _____	Base Greenhorn _____	T. Granite _____
T. Paddock _____	T. Ellenburger _____	T. Dakota _____	T. _____
T. Blinberry _____	T. Gr. Wash _____	T. Morrison _____	T. _____
T. Tubb _____	T. Granite _____	T. Todilto _____	T. _____
T. Drinkard _____	T. Delaware Sand _____	T. Entrada _____	T. _____
T. Abo _____	T. Bone Springs _____	T. Wingate _____	T. _____
T. Wolfcamp _____	T. _____	T. Chinle _____	T. _____
T. Penn. _____	T. _____	T. Permian _____	T. _____
T. Cisco (Bough C) _____	T. _____	T. Penn. "A" _____	T. _____

OIL OR GAS SANDS OR ZONES

No. 1, from _____ to _____	No. 4, from _____ to _____
No. 2, from _____ to _____	No. 5, from _____ to _____
No. 3, from _____ to _____	No. 6, from _____ to _____

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from _____ to _____ feet.
No. 2, from _____ to _____ feet.
No. 3, from _____ to _____ feet.
No. 4, from _____ to _____ feet.

FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
537	884	347	Ojo Alamo				
1395	1880	485	Fruitland				
1880	1968	88	Picture Cliffs				
2503	3200	697	Chacra				
3450	3566	116	Cliffhouse				
3566	4170	604	Menefee				
4170	4420	250	Point Lookout				
5380	-	-	Gallup				

✓

✓

✓

✓

FARMINGTON DISTRICT
MAY 6 1985

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

RECEIVED
SEP 27 1983
FARMINGTON
DISTRICT

Form C-101
Revised 10-1-78

NO. OF COPIES RECEIVED	
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SANTA FE	
FILE	
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TRAINING OFFICE	
OPERATION	

1. TYPE OF WELL

2. TYPE OF COMPLETION

NEW WELL ☒ WORK OVER ☐

Name of Operator

Amoco Production Company

Address of Operator

501 Airport Drive, Farmington, New Mexico 87401

Location of Well

UNIT LETTER I LOCATED 1850 FEET FROM THE South LINE AND 350 FEET FROM

THE East LINE OF SEC. 26 TWP. 29N RGE. 10W NEPL

13. Date Spudded 5-7-83 16. Date T.D. Reached 5-14-83 17. Date Compl. (Ready to Prod.) 7-15-83 18. Elevations (L.F., R.H., R.T., G.R., etc.) 5567' KB 19. Elev. Casingshead 5554 GL

20. Total Depth 5900' 21. Plug Back T.D. 5858' 22. If Multiple Compl., How Many Many 23. Intervals Drilled By O-TD Rotary Tools Cable Tools

24. Producing Interval(s), of this completion - Top, Bottom, Name 5378' - 5692' Gallup

25. Was Directional Survey Made Yes

26. Type Electric and Other Logs Run

DIL-SP-GR, FDC-CNL-Cal-GR, GR Radioactive Tracer

27. Was Well Cored

No

CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
11-3/4"	42# H-40	302'	14-3/4"	510 cu. ft. Class B w/2% CaCl ₂ Circ. to set	
5-1/2"	15.5# K-55	5900'	7-7/8"	1) 1117 cu. ft. Class B 50:50 POZ Tailed in w/177 cu. ft. Class B neat 2) 1756 cu. ft. Class B 65:35 POZ. Tailed in w/118 cu. ft. Class B neat.	

LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
					2-7/8"	5378' - 5692'	

Production Record (Interval, size and number)

5378' - 5492', 5514' - 5580', 5590' - 5692'
w/1 jsp every 2 ft. for a total of 141 holes.

28. ACID, SHOT, FRACTURE, CEMENT SOLS, ETC.

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
5378' - 5692'	139000 gals. 20# gelled water containing 2% KCl .5 millicuries radioactive sand 130,000# 20-40 sand.

PRODUCTION

First Production	7-15-83	Production Method (Flowing, gas lift, pumping - size and type pump)	Pumping	Well Status (Flow, or Shut-in)	SI
Date of Test	7-16-83	Hours Tested	24	Choke Size	32/64
Flowing Pressure	85 psig	Pressure at Test Interval	9.1	Oil - Bbl.	50.7
Gas - MCF	5.3	Water - Bbl.	5.3	Gas - Oil Ratio	5572
Casing Pressure	85 psig	Calculated 24-Hour Rate	9.1	Oil - Bbl.	50.7
Gas - MCF	5.3	Water - Bbl.	5.3	Oil Gravity - API (Corr.)	41
Disposition of Gas (Sold, used for fuel, vented, etc.)	To be sold	Test Witnessed by			

cc: Beta Dev - Pioneer - Getty

Original Signed By
D.D. Lawson

District Adm. Supervisor

DATE 9/19/83

This form is to be filed with the geologic District Office of the DWS before and later than 20 days after the completion of any newly-drilled or deepened well. It shall be completed for each case of all the top of the formation in the well and a crossing of all reported to the same depth, including still other tests. All depths reported shall be in feet and depths, in the case of directionally drilled wells, from vertical depth shall also be reported. For multiple completions, from top through bottom shall be reported for each zone. The form is to be filed in quadruplicate in duplicate form only, where the copies are required, from July 1952.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico

Northwestern New Mexico

T. Aubrey	T. Canyon	T. Ojo Alamo	537	T. Penn. "H"
T. Salt	T. Strawn	T. Fruitland	1395	T. Penn. "C"
T. Salt	T. Alcala	T. Pictured Cliffs	1880	T. Penn. "D"
T. Yates	T. Miss	T. Cliff House	3450	T. Leadville
T. 7 Rivers	T. Devonian	T. Menefee	3566	T. Madison
T. Queen	T. Silurian	T. Point Lookout	4170	T. Elbert
T. Grayburg	T. Montoya	T. Mancos	4420	T. McCracken
T. San Andres	T. Simpson	T. Gallup	5380	T. Ignacio Qtzite
T. Glorieta	T. McKee	Hose Greenhorn		T. Granite
T. Paddock	T. Ellenburger	T. Dakota		T.
T. Blinberry	T. Gr. Wash	T. Morrison		T.
T. Tubb	T. Granite	T. Todilto		T.
T. Drinkard	T. Delaware Sand	T. Entrada		T.
T. Aba	T. Bone Springs	T. Wingate		T.
T. Wolfcamp	T.	T. Chinle		T.
T. Penn.	T.	T. Permian		T.
T. Cisco (Bough C)	T.	T. Penn. "A"		T.

OIL OR GAS SANDS OR ZONES

No. 1, from	to	No. 4, from	to
No. 2, from	to	No. 5, from	to
No. 3, from	to	No. 6, from	to

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from	to	feet
No. 2, from	to	feet
No. 3, from	to	feet
No. 4, from	to	feet

FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
537	884	347	Ojo Alamo				
1395	1880	485	Fruitland				
1880	1968	88	Pictured Cliffs				
2503	3200	697	Chacra				
3450	3566	116	Cliffhouse				
3566	4170	604	Menefee				
4170	4420	250	Pt. Lookout				
5380	---	---	Gallup				

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

JUN 1

QUM	102
ODL	101
TKA	
GOM	
DKE	
BDK	BIS
SMH	
BJW	
TWE	
WLS	

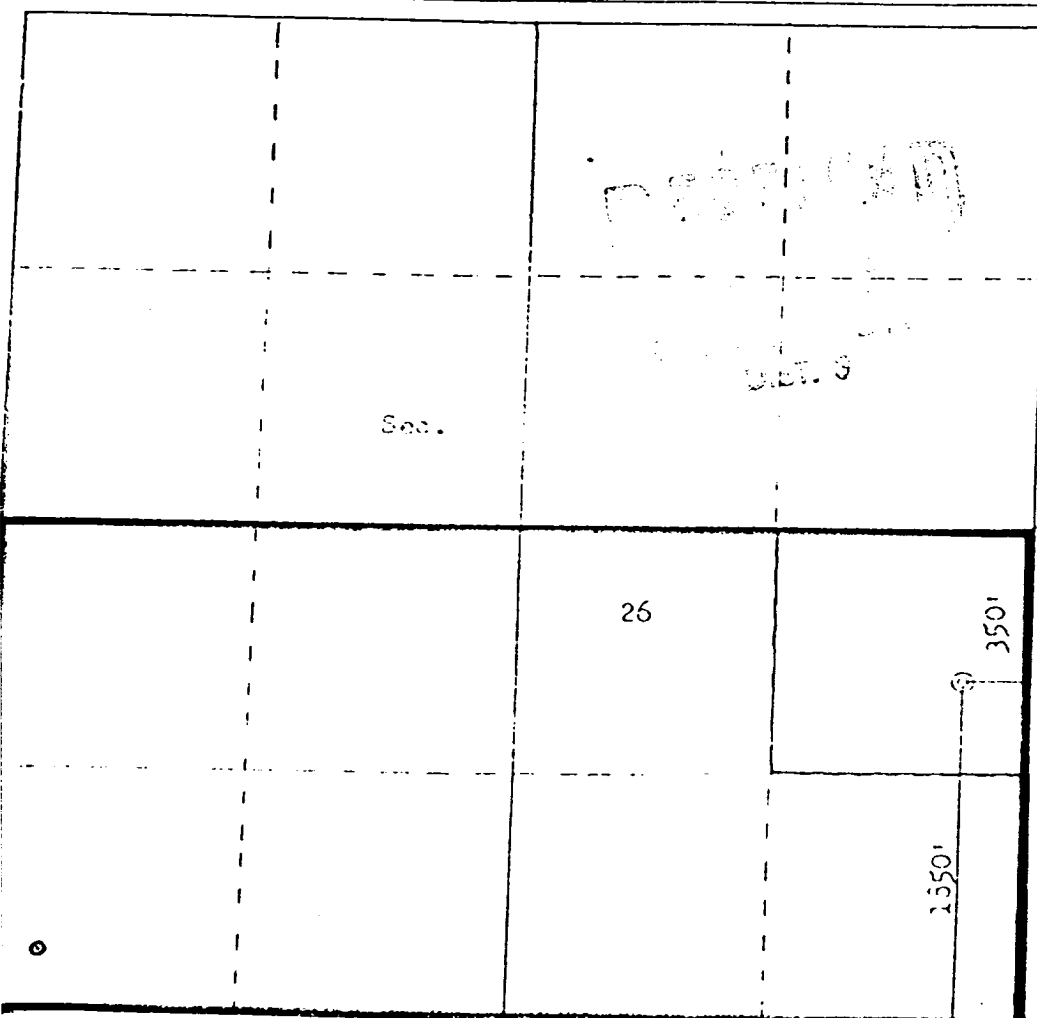
Owner AMOCO PRODUCTION COMPANY			Lease ABRAMS "U"		Well No. 1A
Unit Lease I	Section 26	Township 29N	Range 10W	County San Juan	
Actual Footage Location of Well: 1350 feet from the South line and 350 feet from the East line					
Ground Level Elev. 5554	Producing Formation Mesaverde		Pool Blanco Mesaverde	Dedicated Acreage 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 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.



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
DALE H. SHOEMAKER

Position
DISTRICT ENGINEER

Company
AMOCO PRODUCTION COMPANY

Date
MARCH 15, 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
February 24, 1983

Registered Professional Engineer
and Land Surveyor

Fred B. Kent Jr.
Fred B. Kent Jr.

Certificate No. 4111
3950

B & R SERVICE, INC.

P. O. Box 1048

Farmington, New Mexico 87401

(505) 325-2393

* Renamed Abrams G.C. L* 1A

Company Amoco Production Co. Lease Abrams G.C. "K" Well #1
County San Juan State New Mexico Date 4-5-65
Shut-In 7 Days Zero Point B.L. Tbg. Pressure 879
Casing Pressure 950 Tbg. Depth _____ Casing Perf. _____
Max. Temp. _____ Fluid Level 4190'

DEPTH	TEMP	GRADIENT
0	879	----
1000	910	.031
2000	939	.029
3000	966	.027
4000	990	.024
5000	1326	.336
5150	1340	.400
5250	1431	.450

B & R SERVICE, INC.

P. O. Box 1048

Farmington, New Mexico 87401

(505) 325-2393

* RENAMED ABRAMS L# 1A

Company Amoco Production Co. Lease Abrams G.C. "K" Well —1
County San Juan State New Mexico Date 4-17-85
Shut-In 7 Days Zero Point G.L. Tbg. Pressure 549
Casing Pressure 999 (Mesa Verde) Tbg. Depth _____ Casing Perf. _____
Max. Temp. _____ Fluid Level 5000'

<u>DEPTH</u>	<u>PSIG</u>	<u>GRADIENT</u>
0	549	----
1000	566	.017
2000	581	.015
3000	598	.017
4000	615	.017
5000	631	.016
5500	827	.392
5600	870	.430

C-116
Revised 1-1-65

RECEIVED
SEP 30 1985
OIL CON. DIV.
DIST. 3

Mail original and one copy of this report to the district office of the New Mexico Oil Conservation Commission in accordance with Rule 301 and appropriate pool rules.

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

Administrative Supervisor

(Tide)

September 27, 1985

(over)