



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 Oct 22, 1985

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

Gentlemen:

I have examined the application dated October 16, 1985
for the Operator Abraham L #1 M-26-29N-10W
Operator Lease and Well No. Unit, S-T-R

and my recommendations are as follows:

Approve

Yours truly,

John D. Day



Amoco Production Company

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

R. J. Broussard
District Manager

October 14, 1985

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

File: DDL-1197-400.1

Gentlemen:

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

RECEIVED
OCT 16 1985
OIL CON. DIV.
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) Pumping the Gallup horizon below a packer is not feasible.
- 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 has never produced, we are unable to supply production decline curves.

Page 2
File: DDL-1197-400.1
October 14, 1985

If you have any questions concerning this application, please contact the engineer in charge, Dana Delventhal.

Thank you for your earliest attention to this application.

Yours very truly,

A handwritten signature in cursive script, appearing to read "R. J. Broussard".

MEM/ct

Attachments

✓ cc: NMOCD - Aztec, NM

AM6



Amoco Production Company

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

R. J. Broussard
District Manager

October 2, 1985

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

Southern Union Exploration
P. O. Box 2179
Farmington, NM 87499

File: DDL-1136-400.1

Gentlemen:

Commingling Application
Abrams L No. 1
Sec. 26M, 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,

R. J. Broussard
RLB

DLD/ct

AM5

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DIST. 3

NEW MEXICO OIL CONSERVATION COMMISSION
GAS - OIL RATIO TESTS

C-116
Revised 1-1-65

Operator Amoco Production Co.		Pool Armenta Gallup/Blanco Mesaverde		County San Juan									
Address 501 Airport Drive, Farmington, N M 87401		TEST - (X)		Completion ☐ Special ☒									
LEASE NAME	WELL NO.	LOCATION			DATE OF TEST	TYPE OF TEST - (X)	CHOKE SIZE	T.B.G. PRESS.	DAILY ALLOW-ABLE	LENGTH OF TEST HOURS	PROD. DURING TEST		GAS - OIL RATIO CU.FT./BBL.
		U	S	T							R	WATER BBL.S.	
Abrams L Armenta Gallup Blanco Mesaverde	#1	M	26	29	10	7/19/83 9/11/84	29/64 85 24/64 375	24 24	1 102	4 2	65 548	16,250 274,000	

No well will be assigned an allowable greater than the amount of oil produced on the official test.
During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowables when authorized by the Commission.
Gas volumes must be reported in MCF measured at a pressure base of 15.025 psia and a temperature of 60° F. Specific gravity base will be 0.60.
Report casing pressure in lieu of tubing pressure for any well producing through casing.
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.


(Signature)
Adm. Supervisor
(Title)
October 3, 1985
(Date)

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

P. O. BOX 2048

SANTA FE, NEW MEXICO 87501

Form C-107
Revised 10-1-

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

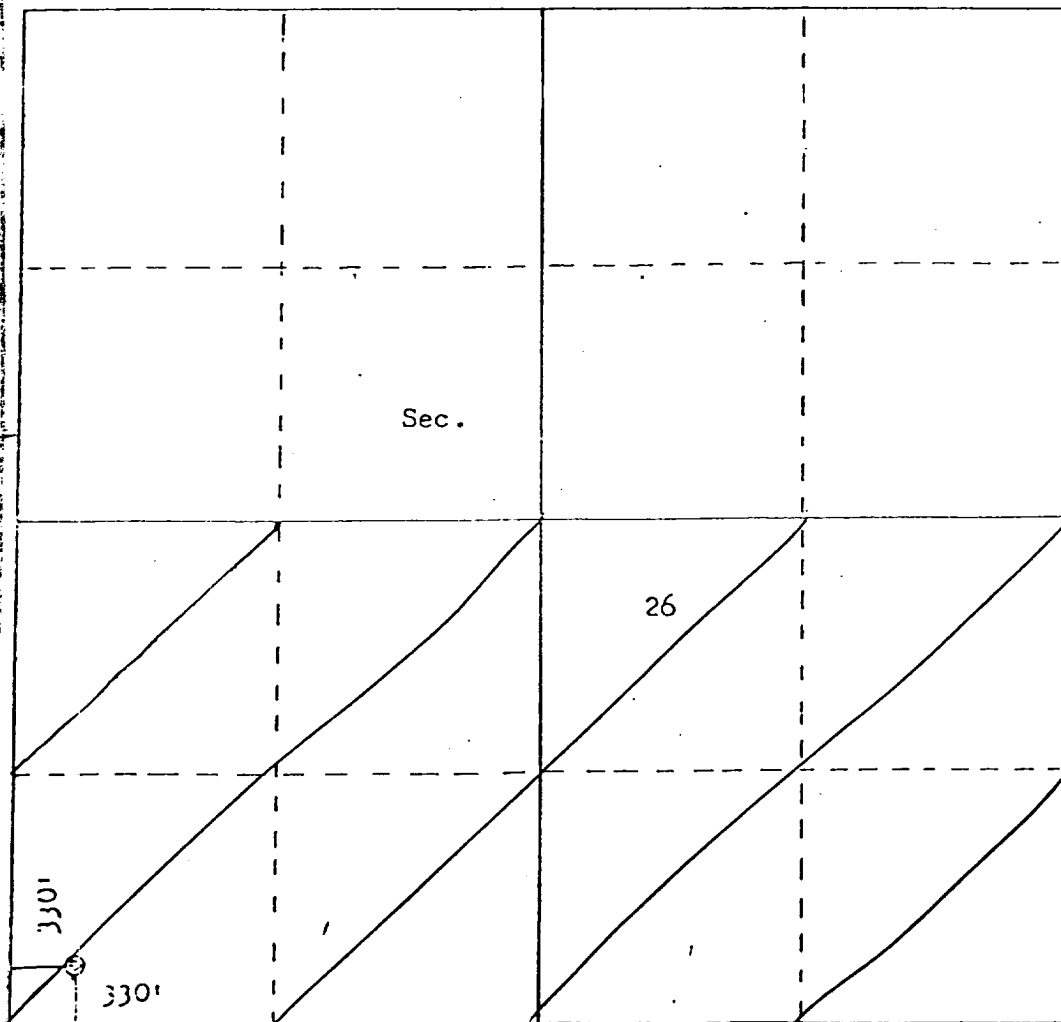
Operator AMOCO PRODUCTION COMPANY		Lease ABRANS		Well No. 1	
Unit Letter M	Section 26	Township 29N	Range 10W	County San Juan	
Actual Footage Location of Well:					
330 feet from the South line and		330 feet from the West line			
Ground Level Elev. 5543	Producing Formation Gallup	Pool Armenta Gallup + Blanco MV	Dedicated Acreage: 40/320 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.

Name

Dale H. Shoemaker

Position

District Engineer

Company

Amoco Production Company

Date

April 14, 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

April 5, 1983

Registered Professional Engineer and Land Surveyor.

Fred B. Kerr Jr.

Certificate No.

3950

KB 5556'
GL 5543'

11 3/4" 42# H-40 CSA
317' X 576 C.F. CMT

MESAVERDE PERFS:
3428'-3992'
4075'-4474'

2 3/8" TBG @ 4464'

GALLUP PERFS:
5336'-5400'
5426'-5489'
5490'-5546'

BP @ 4550'

TD 5940'
PBD 5804'

5 1/2" 15.5# K-55 CSA
5940' X 2708 C. F. CMT

Amoco Production Company

ABRAMS L #1

SCALE:

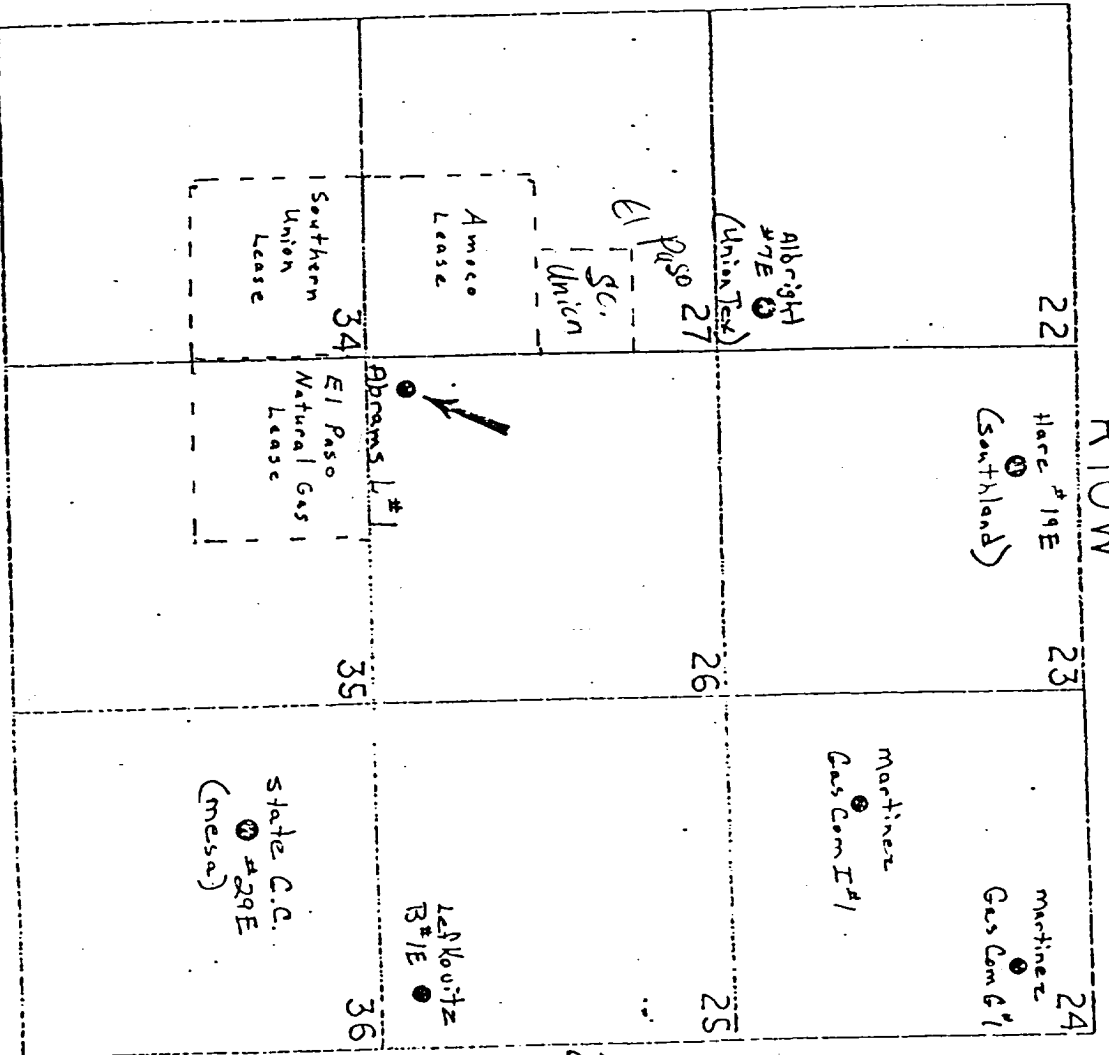
DRG.
NO.

Proposed Allocation Formula

	<u>Gas</u>	<u>Oil</u>
Armenta Gallup	65 MCFD	4 BOPD
Blanco Mesaverde	<u>548 MCFD</u>	<u>2 BOPD</u>
	<u>613 MCFD</u>	<u>6 BOPD</u>

	<u>Gas</u>	<u>Oil</u>
Armenta Gallup	11%	67%
Blanco Mesaverde	<u>89%</u>	<u>33%</u>
	<u>100%</u>	<u>100%</u>

R10W



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29
N

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

Form C-105
Revised 11-1-71

3a. Indicate Type of Lease
State ☐ Fee ☒

5. State Oil & Gas Lease No.

1a. TYPE OF WELL

b. TYPE OF COMPLETION

OIL WELL ☒ GAS WELL ☐ DRY ☐ OTHER ☐

NEW WELL ☒ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ OTHER ☐

2. Name of Operator
Amoco Production Company

3. Address of Operator
501 Airport Drive, Farmington, New Mexico 87401

4. Location of Well

UNIT LETTER M LOCATED 330 FEET FROM THE West LINE AND 330 FEET FROM THE south LINE OF SEC. 26 TWP. 29N RGE. 10W NMPM

15. Date Spudded 5-23-83	16. Date T.D. Reached 5-29-83	17. Date Compl. (Ready to Prod.) 7-17-83	18. Elevations (DF, RKB, RT, CR, etc.) 5556' KB	19. Elev. Casinghead 5543' GL
20. Total Depth 5940'	21. Plug Back T.D. 5804'	22. If Multiple Compl., How Many	23. Intervals Drilled By Rotary Tools O-TD	24. Cable Tools

24. Producing Interval(s), of this completion - Top, Bottom, Name
5426' - 5546' Gallup

26. Type Electric and Other Logs Run
DIL-SP-GR, FDC-CNL-Cal-GR Radioactive Tracer

25. Was Directional Survey Made
Yes

27. Was Well Cored
No

28. CASING RECORD (Report all strings set in well)				
CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD
11-3/4"	42# H40	317'	14-3/4"	576 cu.ft. Class B w/2% CA
5-1/2"	15.5# K55	5940'	7-7/8"	1) 739 cu. ft. Class B 50' 2) 161' 3) 177 cu.ft. Class B 65:35 POZ. Tailed in both

29. LINER RECORD					30. TUBING RECORD		
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
					2-7/8"	5576'	

31. Perforation Record (Interval, size and number)
5426'-5489', 5490'-5546' with 1 jsfp for a total of 119 holes, .44" in diameter.
5336'-5400' w/1 jsfp Total 64 holes -44" dia.

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

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
5426'-5546'	70% N2 foam 20# gelled water.
	2% KCl, .5 millicuries
	radioactive sand/ 1000# and
	46725# 20-40 sand.

33. PRODUCTION

Date First Production
7-17-83

Production Method (Flowing, gas lift, pumping - Size and type pump)
Pumping

Well Status (Prod. or Shut-in)
SI

Date of Test 7-18-83	Hours Tested 24	Choke Size 28/64	Prod'n. For Test Period →	Oil - Bbl. 4.2	Gas - MCF 64.7	Water - Bbl. 1.4	Gas - Cu. Ft. 15405
Flow Tubing Press. 85 psig	Casing Pressure	Calculated 24-Hour Rate →	Oil - Bbl. 4.2	Gas - MCF 64.7	Water - Bbl. .4	Oil Gravity - API (Conv.) 41	

34. Disposition of Gas (Sold, used for fuel, vented, etc.)
To be sold.

Test Witnessed By

35. List of Attachments

36. 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.

Original Signed By
SIGNED D.O. Lawson TITLE Dist. Adm. Supervisor DATE 9/28/83

This form is to be filed with the appropriate District Office of the Commission not later than 20 days after the completion of any newly-drilled or deeper of well. It shall be accompanied by one copy of all electrical and radioactivity 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, from 20 through 34 shall be reported for each zone. This form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 116.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico

Northwestern New Mexico

T. Anhy	T. Canyon	T. Ojo Alamo	543	T. Penn. "B"
T. Salt	T. Strawn	T. Kirtland-Fruitland	1385	T. Penn. "C"
B. Salt	T. Atoka	T. Pictured Cliffs	1830	T. Penn. "D"
T. Yates	T. Miss	T. Cliff House	3410	T. Leadville
T. 7 Rivers	T. Devonian	T. Menefee	3508	T. Madison
T. Queen	T. Silurian	T. Point Lookout	4136	T. Elbert
T. Grayburg	T. Montoya	T. Mancos	4500	T. McCracken
T. San Andres	T. Simpson	T. Gallup	5338	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
543	820	277	Ojo Alamo				
1385	1830	445	Fruitland				
1830	1925	95	Pictured Cliffs				
2465	3250	785	Chacra				
3410	3508	98	Cliffhouse				
3508	4136	628	Menefee				
4136	4500	364	Point Lookout				
5338	-		Gallup				

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OPERATOR	

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

Form C-105
Revised 10-78

1. Indicate Type of Lease
State ☐ Fed ☒
2. State Oil & Gas Lease No.

10. TYPE OF WELL
OIL WELL ☐ GAS WELL ☒ DRY ☐ OTHER ☐
11. TYPE OF COMPLETION
NEW WELL ☐ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF. RESVR. ☒
12. Name of Operator
Amoco Production Company
13. Address of Operator
501 Airport Drive, Farmington, NM 87401
14. Location of Well
UNIT LETTER M LOCATED 330 FEET FROM THE West LINE AND 330 FEET FROM THE South LINE OF SEC. 26 TWP. 29N RGE. 10W NMPM

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OIL CON. DIV.
DIST. 3

7. Unit Agreement Name
8. Name of Lease Name
Abrams ~~Comp~~ "L"
9. Well No.
1
10. Field and Pool, or Wildcat
Blanco Mesa Verde

15. Date Spudded 5/23/83 16. Date T.D. Reached 5/29/83 17. Date Compl. (Ready to Prod.) 8/28/84 18. Elevations (D.F., K.M.H., K.T., GR., etc.) 5556' KB 19. Elev. Casinghead 5543' GR
20. Total Depth 5940' 21. Plug Back T.D. 5804' 22. If Multiple Compl., How Many 2 23. Intervals Drilled By Rotary Tools O-TD Cable Tools
24. Producing Interval(s), of this completion - Top, Bottom, Name 4474'-3428' Mesa Verde 25. Was Directional Survey Made YES
26. Type Electric and Other Logs Run DIL-SP-GR, FDC-CNL-Cal-GR Radioactive Tracer 27. Was Well Cored No

28. 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	317'	14-3/4"	576 c.f. Class B w/2% CaCl ₂	
5-1/2"	15.5 #, K-55	5940'	7-7/8"	1) 739 c.f. Class B 50:50 poz 2) 1615 c.f. Class B 65:35 poz & tailed	
				in both 177 c.f. Class B Neat	

29. LINER RECORD				30. TUBING RECORD			
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
					2-3/8"	4464'	4550'
							(bridgeplug)

31. Perforation Record (Interval, size and number)
See attached sheet.
32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.
DEPTH INTERVAL AMOUNT AND KIND MATERIAL USED
4474'-4075' 240,000 gal. 20# gelled water & 260,000# 10-20 sand
3428'-3992' 142,464 gal. 20# gelled water & 71,300# 10-20 sand.

33. PRODUCTION
Date First Production 9/25/84 Production Method (Flowing, gas lift, pumping - Size and type pump) Flowing Well Status (Prod. or Shut-in) Shut-in
Date of Test 9/26/84 Hours Tested 3 Choke Size .75" Prod'n. For Test Perfor Oil - Bbl. Gas - MCF 492 Water - Bbl. Gas - Oil Ratio
Flow Tubing Press. 320 psig Casing Pressure 602 psig Calculated 24-Hour Rate Oil - Bbl. Gas - MCF 3934 Water - Bbl. Oil Gravity - API (Corr.)

34. Disposition of Gas (Sold, used for fuel, vented, etc.) To be sold Test Witnessed By J. Barnett

35. List of Attachments
None

36. 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.
Original Signed By B. D. Shaw
SIGNED B. D. Shaw TITLE Administrative Supervisor DATE 9/28/84

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 required by a copy of all observed and measured data from the well and a summary of all reported water conducted, including EUR, to be filed. All of the recorded data is measured by them. In the case of hydraulically fractured wells, true verticality of the well shall be reported. For multiple completion wells, the depth of each well to be reported for each zone. This form is to be filed in quadruplicate except on state land where only one copy is required. (See Rule 110.5.)

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico

Northwestern New Mexico

T. Anhy _____	T. Canyon _____	T. Op. Alamo _____ 543	T. Penn. "B" _____
T. Salt _____	T. Strawn _____	T. Kirtland-Fruitland _____ 1385	T. Penn. "C" _____
B. Salt _____	T. Atoka _____	T. Pictured Cliffs _____ 1830	T. Penn. "D" _____
T. Yates _____	T. Miss _____	T. Cliff House _____ 3410	T. Leadville _____
T. 7 Rivers _____	T. Devonian _____	T. Menefee _____ 3508	T. Madison _____
T. Queen _____	T. Silurian _____	T. Point Lookout _____ 4136	T. Elbert _____
T. Grayburg _____	T. Montoya _____	T. Mancos _____ 4500	T. McCracken _____
T. San Andres _____	T. Simpson _____	T. Gallup _____ 5338	T. Ignacio Qtzite _____
T. Glorieta _____	T. McKee _____	Base Greenhorn _____	T. Granite _____
T. Paddock _____	T. Ellenburger _____	T. Dakota _____	T. _____
T. Blinbry _____	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

SITE OR GAS SARDS OR LONES

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

PERFORATION RECORD

4084'-4075', 4122'-4106', 4194'-4146', 4229'-4211', 4258'-4234', 4280'-4275',
4308'-4295', 4346'-4341', 4374'-4360', 4397'-4389', 4429'-4421', 4456'-4445',
4474'-4466', 3434'-3428', 3508'-3480', 3536'-3529', 3565'-3552', 3589'-3583',
3612'-3601', 3620'-3617', 3677'-3673', 3693'-3686', 3753'-3748', 3770'-3765',
3801'-3798', 3812'-3803', 3829'-3823', 3863'-3855', 3879'-3874', 3903'-3899',
3931'-3911', 3956'-3947', 3992'-3986', 2 jspf, .45", total of 704 holes.

BOTTOM HOLE PRESSURE DATA

WELL NAME Abrams GC L #1 DATE 7/16/84

FIELD Armenta Gallup

<u>SHUT-IN TUBING</u>	<u>SHUT-IN CASING</u>
-----------------------	-----------------------

TYPE OF INSTRUMENT USED Amerada RPG-3

PRESSURE RANGE OF ELEMENT 0-4,025 PSI

DATE ELEMENT CALIBRATED _____

BHP 688 PSI

SI DATE 7/20/83

COMMENTS Pressure measurement for commingling application.

[illegible]

BOTTOM HOLE PRESSURE DATA

WELL NAME Abrams GC L #1

DATE 9-27-84

FIELD Blanco Mesaverde

SHUT-IN TUBING 716 PSI

SHUT-IN CASING 1046 PSI

TYPE OF INSTRUMENT USED Amerada RPG-3

PRESSURE RANGE OF ELEMENT 0-3000 PSI

DATE ELEMENT CALIBRATED 9-26-84

BHP 1214 PSI

SI DATE 9-26-84

COMMENTS Pressure measurement for commingling application.

[illegible]