

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

Abrams Gas Com A #1

ADMINISTRATIVE APPLICATION COVERSHEET

THIS COVERSHEET IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS

Application Acronyms:

[NSP-Non-Standard Proration Unit] [NSL-Non-Standard Location]
[DD-Directional Drilling] [SD-Simultaneous Dedication]
[DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
[PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
[WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
[SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
[EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

1438

[1] TYPE OF APPLICATION - Check Those Which Apply for [A]

[A] Location - Spacing Unit - Directional Drilling

☐ NSL ☐ NSP ☐ DD ☐ SD

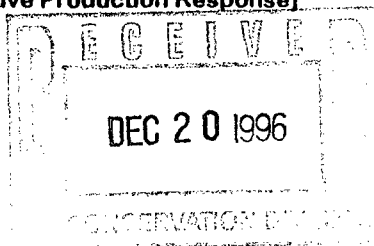
Check One Only for [B] or [C]

[B] Commingling - Storage - Measurement

☒ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery

☐ WFX ☐ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR



[2] NOTIFICATION REQUIRED TO: - Check Those Which Apply, or ☐ Does Not Apply

[A] ☐ Working, Royalty or Overriding Royalty Interest Owners

[B] ☒ Offset Operators, Leaseholders or Surface Owner

[C] ☐ Application is One Which Requires Published Legal Notice

[D] ☐ Notification and/or Concurrent Approval by BLM or SLO

U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office

[E] ☐ For all of the above, Proof of Notification or Publication is Attached, and/or,

[F] ☐ Waivers are Attached

[3] INFORMATION / DATA SUBMITTED IS COMPLETE - Statement of Understanding

I hereby certify that I, or personnel under my supervision, have read and complied with all applicable Rules and Regulations of the Oil Conservation Division. Further, I assert that the attached application for administrative approval is accurate and complete to the best of my knowledge and where applicable, verify that all interest (WI, RI, ORRI) is common. I further verify that all applicable API Numbers are included. I understand that any omission of data, information or notification is cause to have the application package returned with no action taken.

Note: Statement must be completed by an individual with supervisory capacity.

PAMELA W. STALEY
Print or Type Name

Signature

REGULATORY AFFAIRS ENGR.
Title

12/17/96
Date



Southern

Rockies

Business

Unit

December 11, 1996

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

Application for Exception to Rule 303-C - Downhole Commingling
Abrams Gas Com A #1 Well
Unit I Section 26-T29N-R10W
Wildcat: 29N10W26I-Farmington Sand and Aztec Pictured Cliffs Pools
San Juan County, New Mexico

Enclosed please find an administrative application form (C-107-A) and attachments for downhole commingling for the captioned well. By copy of this application by certified mail, return receipt requested, Amoco is notifying all offset operators in the formations captioned above as well as all affected interest owners if the ownership of those formations is not common. The Division Director may approve the proposed downhole commingling in the absence of a valid objection from any offset operator or any interest owner in those instances where ownership is not common in the zones to be commingled within 20 days after the receipt of the application if, in his opinion, waste will not result thereby, and correlative rights will not be violated.

Should there be questions concerning this matter, please contact me at (303) 830-5344.

Sincerely,


Pamela W. Staley

Enclosures

cc: Steve Webb
Pat Archuleta
Wellfile
Proration File
Frank Chavez, Supervisor
NMOCD District III
1000 Rio Brazos Road
Aztec, NM 87410

Amoco Production Company		PO Box 800 Denver, CO 80201	
Operator		Address	
Abrams GC A	1	I26, T29N-R10W	San Juan
Lease	Well No.	Unit Ltr. - Sec Twp - Rge	County

OGRID NO. 000778Property Code 000253API NO. 3004507821

Spacing Unit Lease Types: (check 1 or more)

FederalState(and/or) Fee x

The following facts are submitted in support of downhole commingling:	Upper Zone	Intermediate Zone	Lower Zone
1. Pool Name and Pool Code	WILDCAT:29N10W26I-Farmington Sand		Aztec Pictured Cliffs 71280
2. Top and Bottom of Pay Section (Perforations)	1016'-1030' Proposed		1884'-1920'
3. Type of production (Oil or Gas)	Gas		Gas
4. Method of Production (Flowing or Artificial Lift)	Flowing		Flowing
5. Bottomhole Pressure Oil Zones - Artificial Lift: Estimated Current Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated or Measured Original	a. (Current) 450 psig (est)	a.	a. 304 psig
	b. (Original) 450 psig (est)	b.	b. 729 psig
6. Oil Gravity (* API) or Gas BTU Content	1060 btu		1135 btu
7. Producing or Shut-In?	New zone		Producing
Production Marginal? (yes or no)	YES		YES
• If Shut-In, give data and oil/gas/water rates of last production Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data • If Producing, give date and oil/gas/water rates of recent test (within 60 days)	Date: 60 MCFD (est) Rates: 0 BCPD 0 BWPD	Date: Rates:	Date: Rates:
	Date: Rates:	Date: Rates:	11/96 Date: 45 MCFD Rates: 0 BCPD 0 BWPD
8. Fixed Percentage Allocation Formula -% for each zone	Oil: % Gas %	Oil: % Gas %	Oil: % Gas %

9. If allocation formula is based upon something other than current or past production, or is based upon some other method, submit attachments with supporting data and/or explaining method and providing rate projections or other required data.
10. Are all working, overriding, and royalty interests identical in all commingled zones?

__x_ Yes ___ No

If not, have all working, overriding, and royalty interests been notified by certified mail?

___ Yes ___ No

Have all offset operators been given written notice of the proposed downhole commingling?

__x_ Yes ___ No
11. Will cross-flow occur? ___ Yes __x_ No If yes, are fluids compatible, will the formations not be damaged, will any cross-flowed production be recovered, and will the allocation formula be reliable. __x_ Yes ___ No (If No, attach explanation)
12. Are all produced fluids from all commingled zones compatible with each other?

__x_ Yes ___ No
13. Will the value of production be decreased by commingling? ___ Yes __x_ No (If Yes, attach explanation)
14. If this well is on, or communitized with, state or federal lands, either the Commissioner of Public Lands or the Untied States Bureau of Land Management has been notified in writing of this application.

__x_ Yes ___ No NO FEDERAL OR STATE LANDS
15. NMOCD Reference Cases for Rule 303(D) Exceptions: ORDER NO(S)_____
16. ATTACHMENTS:

* C-102 for each zone to be commingled showing its spacing unit and acreage dedication.

* Production curve for each zone for at least one year. (If not available, attach explanation.)

* For zones with no production history, estimated production rates and supporting data.

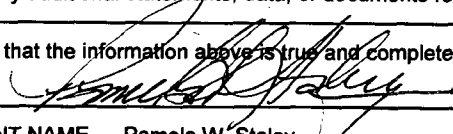
* Data to support allocation method or formula. SEE ATTACHED

* Notification list of all offset operators.

* Notification list of working, overriding, and royalty interests for uncommon interest cases.

* Any additional statements, data, or documents required to support commingling.

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

SIGNATURE 

TITLE Regulatory Affairs Engr.

DATE 12/16/96

TYPE OR PRINT NAME Pamela W. Staley

TELEPHONE NO. (303) 830-5344

NEW MEXICO
OIL CONSERVATION COMMISSION

Form C-128

Well Location and/or Gas Proration Plat

Date February 24, 1956

Operator Stanolind Oil and Gas Company Lease Abrams Gas Unit A

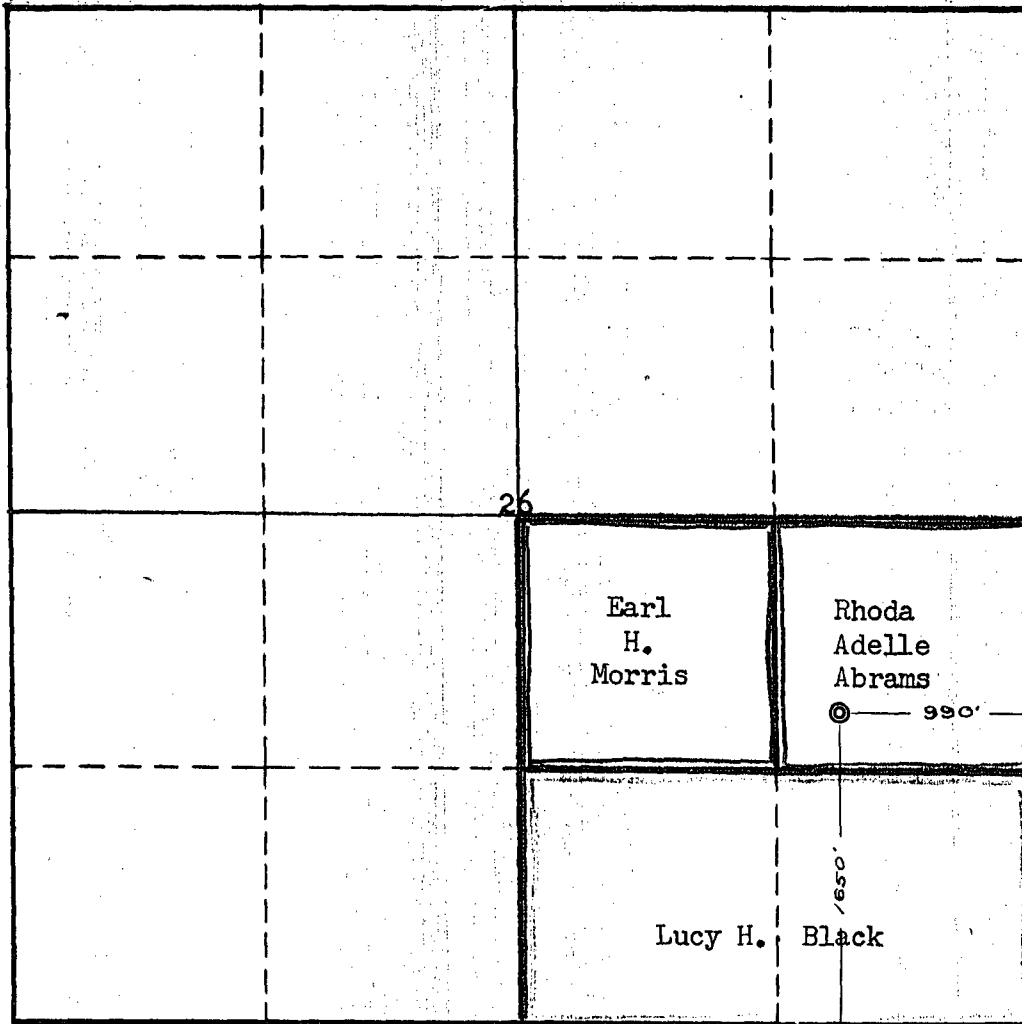
Well No. 1 Section 26 Township 29 North Range 10 West NMPM

Located 1650 Feet From South Line, 990 Feet From East Line,

San Juan County, New Mexico. G. L. Elevation to be reported later

Name of Producing Formation Pictured Cliffs Aztec-
Dedicated Acreage 160

(Note: All distances must be from outer boundaries of Section)



SCALE: 1"=1000'

1. Is this Well a Dual Comp. ? Yes ___ No X.
2. If the answer to Question 1 is yes, are there any other dually completed wells within the dedicated acreage ? Yes ___ No X.

Name John M. Clark
Position Field Engineer
Representing Stanolind Oil & Gas Company
Address Box 487, Farmington, New Mexico

This is to certify that the above plat was prepared from field notes of actual surveys made by me or under my supervision and that the same are true and correct to the best of my knowledge and belief.

Date Surveyed February 18, 1956
Emmett V. Cochran
Registered Professional Engineer and/or
Land Surveyor FOUR STATES OIL FIELD SURVEYS
FARMINGTON, NEW MEXICO

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 AM Number 3004507821		2 Pool Code	3 Pool Name Wildcat:29N10W26I-Farmington Sand	
4 Property Code 000253	5 Property Name Abrams Gas Com "A"		6 Well Number # 1	
7 OGRID No. 000778	8 Operator Name Amoco Production Company		9 Elevation 5557 GR	

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
1	26	29N	10W		1650	South	990	East	San Juan

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot 1st	Feet from the	North/South line	Feet from the	East/West line	County
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"Dedicated Acres 160	"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**

16			

⑥ ——— 990'

16.50'

17 OPERATOR CERTIFICATION

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

Nancy I. Whitaker
 Signature _____
 Nancy I. Whitaker.
 Printed Name _____
 Staff Assistant
 Title _____
 12-12-96
 Date _____

18 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 belief.

February 18, 1956
 Date of Survey _____
 Signature and Seal of Professional Surveyor:
 Ernest T. Eochshawk

 Certificate Number _____

For: zslw11
Engr: zalc14

ABRAMS GAS COM /A/ 001126

Operator- AMOCO PROD

300450782100 604PCCF

APC_WI - 1.0000000

CumG_70	-	621144
CumO_70	-	0
CumGAS	-	1114258
CumOIL	-	0

gas, MCFD

Reserves
0.0857

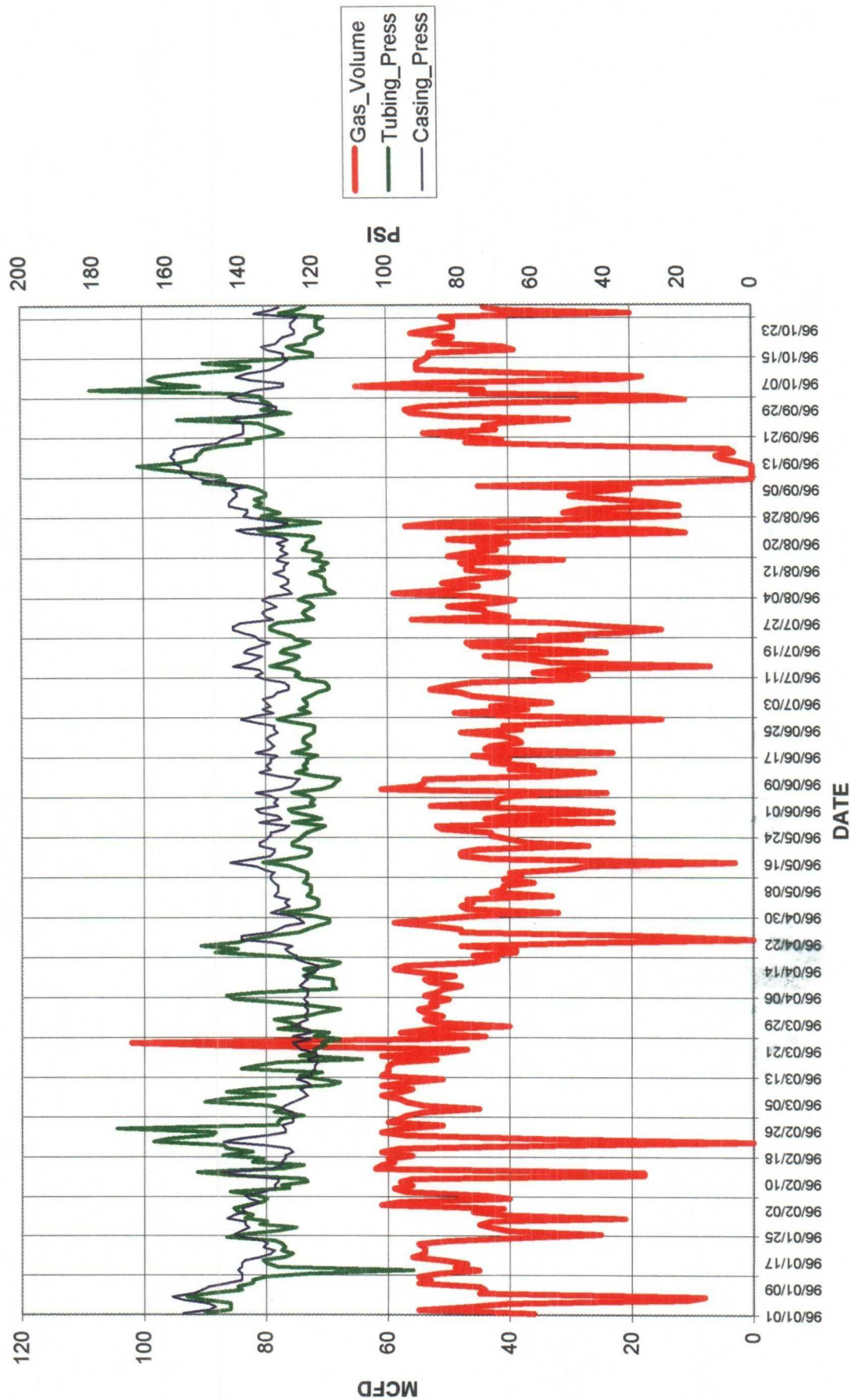
DCLN
CurrQ
RemRes
EUR
Fit_date

Year

Last Op. Forecast by zalc14 in 05/1996

Chart2

Well: ABRAMS GC A 001-PC (92387401)



OTHER DATA TO SUPPORT APPLICATION

Pressure Analysis:

PC:

Original Reservoir Pressure = 729 PSIG

SICP = 160 PSIG 9/96

Mid Perf Depth = 1902'

BHP = $160 + 11.2 + (0.07)(1902)$

BHP = 304 PSIA

Farmington Sand:

Original Reservoir Pressure: Well blew out during drilling in 1956. Had 8.5# native mud in hole.

Depth to Mid-sand = 1023'

Max BHP = $(8.5)(8.33)(0.433 \text{ psi/ft})(1023) = 452 \text{ PSI}$

Some depletion may have occurred from offset McDaniel Gas Com A#1

PRODUCTION ALLOCATION

PC produces 45 MCFD with an 0.086 /year decline. No condensate production.

Gas Allocation proposed to use Subtraction Method

Total Gas Production - PC Gas Production = Farmington Sand Production

Future Production forecast by month is attached for the Pictured Cliffs formation

Oil Allocation proposal: Neither zone is anticipated to produce condensate. Any production should be attributed 100% to the PC if it occurs due to the BTU content of the PC gas.

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WELLID	PROD_ZONE	WELLNAME	VOLUME DATE	Avg MCFD
300450782100	604PCCF	ABRAMS GAS COM /A/ 0011	8/1/2017	8
300450782100	604PCCF	ABRAMS GAS COM /A/ 0011	9/1/2017	8
300450782100	604PCCF	ABRAMS GAS COM /A/ 0011	10/1/2017	8
300450782100	604PCCF	ABRAMS GAS COM /A/ 0011	11/1/2017	7
300450782100	604PCCF	ABRAMS GAS COM /A/ 0011	12/1/2017	7
300450782100	604PCCF	ABRAMS GAS COM /A/ 0011	1/1/2018	7
300450782100	604PCCF	ABRAMS GAS COM /A/ 0011	2/1/2018	7
300450782100	604PCCF	ABRAMS GAS COM /A/ 0011	3/1/2018	7
300450782100	604PCCF	ABRAMS GAS COM /A/ 0011	4/1/2018	7
300450782100	604PCCF	ABRAMS GAS COM /A/ 0011	5/1/2018	7
300450782100	604PCCF	ABRAMS GAS COM /A/ 0011	6/1/2018	7
300450782100	604PCCF	ABRAMS GAS COM /A/ 0011	7/1/2018	7

OFFSET OPERATORS
Abrams Gas Com A #1

Conoco, Inc.
10 Desta Drive West
Midland, Texas 79705

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