

S. D. Blossom
District Superintendent

January 26, 1984

New Mexico Oil Conservation Division 1000 Rio Brazo Road Aztec, NM 87410

New Mexico Oil Conservation Division Sox 2088
Santa Fe, NM 87501

File: DHS-38-986.510

C. A. McAdams "B" No. 1 1850' FSL x 1650' FEL, Section 28, T27N, R10W San Juan County, New Mexico Commingling Application

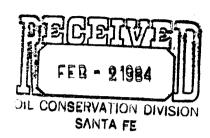
Amoco Production Company requests approval to downhole commingle production from the Angels Peak Gallup and Basin Dakota pools in the subject well. The commingling will utilize a producton packer set between the two zones at 6287' and a sliding sleeve at 6256' to produce up the 2-3/8" tubing (see Attachment No. 1).

The commingling of the Gallup and Dakota pools is necessary to produce the remaining recoverable oil and gas reserves from the Gallup formation in the subject well. The Gallup was produced from November 1959 through August 1967 before reaching its economic limit. High operating costs due to numerous rod related problems made continued operations uneconomical. The zone was temporarily abandoned in January 1968 pending higher oil prices. Working-over and producing the zone as a stand-up Gallup is not economically feasible due to the low recoverable reserves and high operating costs. Since the Gallup cannot flow and does not have sufficient pressure to cycle a plunger, the only way to recover the Gallup reserves is to produce the Gallup using the Dakota pressure. The proposed commingling will not adversely affect either zone for the following reasons:

- 1. Neither zone will be damaged by water production from the other zone. The Dakota averages 1 BWPM and the offsetting Gallup wells average 1 BWPM.
- 2. Neither zone has a history of liquid hydrocarbon sensitivity and should not be damaged by either zone's production.

**Amoco Production Company** 

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



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- 3. Several offsets have had good success in downhole commingling Gallup and Dakota production. The most recent commingles are Amoco Production Company's Jack Frost B No. 1E, Order No. MC-2913, one-half mile to the southeast, and Dugan Production Company's McAdams No. 3, Order No. R-5313, one mile to the southeast.
- 4. Both zones produce gas of a similar composition and heating value, so there will be no loss of value due to the commingling.
- 5. Both zones have common ownership, so there will be no problem with allocating royalty or working interest payments.
- 6. The bottom hole pressure of the Gallup is 52.3 percent of the Dakota bottom hole pressure.

In compliance with NMOCD Rule 303C, we have attached two copies of the following:

- 1. Name and address of the operator.
- 2. Lease name, well number, well location, and names of pools to be commingled.
- 3. A plat showing acreage dedications and ownership of offsetting leases (Attachments 2, 3, and 4).
- 4. A current Dakota productivity test (Attachment 5). A Gallup test is not available since the well has been shut-in since January 1968. We request that an exception be granted to the 30 day test requirement since the well has not produced for 16 years. We have a Dakota deliverability test scheduled for February 16, 1984, to meet the 30 day requirement for the Dakota formation.
- 5. Production decline curves for both formations (Attachments 6 and 7).
- 6. Estimated bottom hole pressure data (Attachment 8).
- 7. A description of fluid characteristics for each zone to show fluid compatability (Attachments 9 and 10). Oil gravities are different, but oil prices are the same. Neither zone produces more than 1 BW per month.
- 8. Gas analysis showing that the value of commingled production will not be less than any one of the individual streams (Attachments 11 and 12). A gas analysis for the Gallup in the subject well is not available. We have attached a copy of a Gallup analysis from the offsetting Jack Frost "B" No. 1E.

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File: DHS-38-986.510

- 9. A formula for allocating production to each of the commingled zones (Attachment 13).
- 10. A statement that all offset operators have been notified in writing of the proposed commingling (Attachment 14).

To allocate production to the individual Dakota and Gallup horizons, we recommend the following:

- 1. Allocate 59.8 percent of the gas production to the Dakota formation and 92.8 percent of the oil production to the Gallup formation.
- 2. After 30 days, we will conduct a commingled deliverability test and submit a Form C-116. Allocation for the two formations will be according to the difference between commingled deliverability and the Dakota deliverability test scheduled to start on February 16, 1984.

We would appreciate prompt handling of this matter so we can initiate Gallup production before potential summer sales restrictions.

Very truly yours,

TDC/tk

Attachments

AM6

DRG.

1850' FSL X 1650' FEL SEC. 28 T27N R10W SAN JUAN COUNTY, NEW MEXICO GL 6109' 9 5/8" CSA 495' (32.3#) X 350 SX CMT ANGEL PEAK GALLUP PERFS: 5438'-5458' 5538'-5558' 5613'-5657' 5704'-5738' 5704'-5738' BASIN DAKOTA PERFS: 6362'-6402' 6419'-6459' SLIDING SLEEVE AT 6256' PACKER AT 6287' 2 3/8" TSA 6357' 7" CSA 6601' (20#) X 700 SX CMT PBD 6554' 6602 **Amoco Production Company** 

C. A. MCADAMS B NO. 1

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### NEW MEXICO OIL CONSERVATION COMMISSION

### Well Location and Acreage Dedication Plat

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### NEW MEXICO OIL CONSERVATION COMMISSION

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C. A. MCADAMS B #1

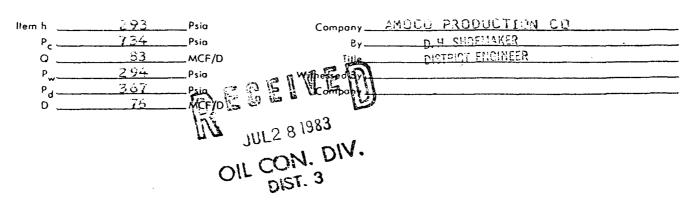
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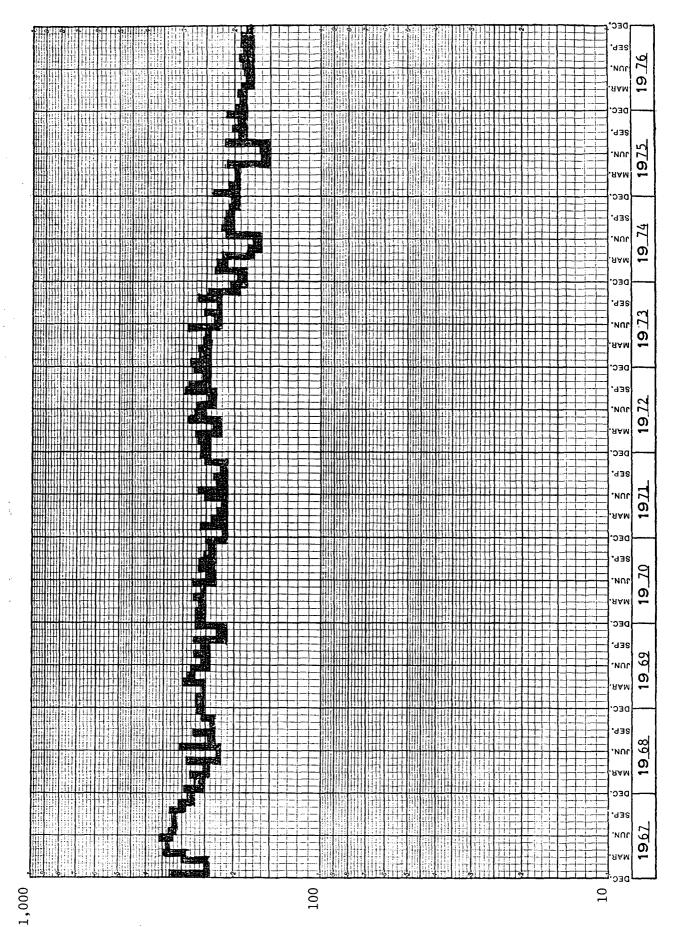
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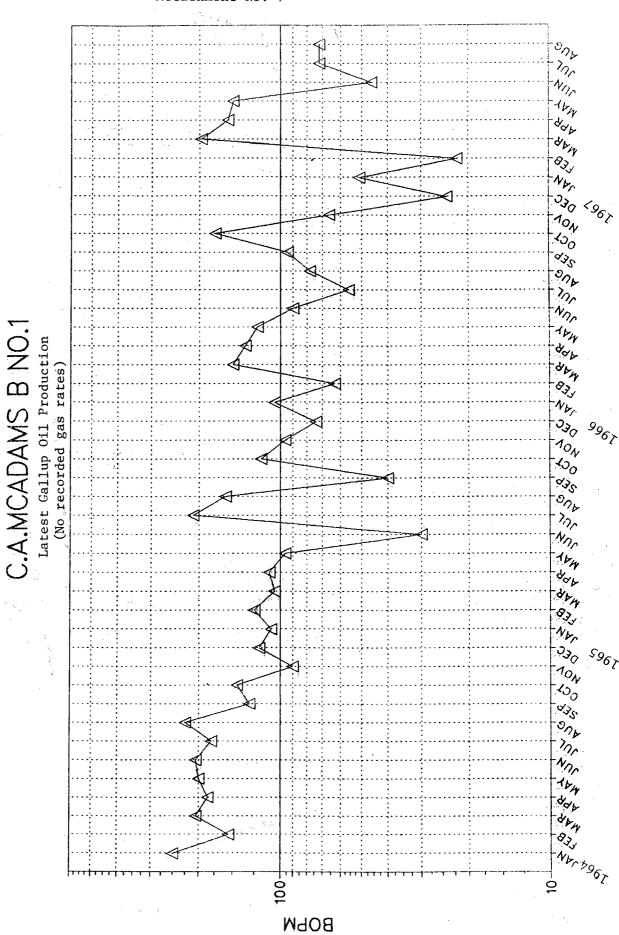
#### SUMMARY



Basin Dakota C. A. McAdams "B" No.

Basin Dakota C. A. McAdams "B" No. 1





### Attachment No. 8

## C.A. McAdams "B" No. 1

BHP Data

Dakota

Amerada Bomb

Extension =0.595

Pressure = 904 psig

Gallup

Amerada Bomb

Extension = 0.313

Pressure = 473 psig

Ratio Gallup to Dakota BHP =  $\frac{473}{904}$  = 52.3%

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# EL PASO NATURAL GAS COMPANY MEASUREMENT DEPARTMENT PUST OFFICE DUX 1492 EL PASO, TEXAS 7999

### CHROMATUGRAPHIC GAS ANALYSIS REPORTS

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SPECIFIC GRAVITY

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MIXTURE HEATING VALUE
(BTU/CF AT 14.73 PSIA,60 DEGREES,DRY) 1,227

RATIC OF SPECIFIC HEATS

1.281

# CHEMICAL & GEOLOGICAL LABORATORIES

P.O. Box 2794 = Casper, Wyoming 82602

### GAS ANALYSIS REPORT

Company	AMOCO Production Co.	Date	5-4-82	Lab. No. 40525-1
Well No.	Jack Frost Gas Com. B-1E	Location	M 27-27N-10W	
Field	Angel Peak Gallup	Formation	The state of the s	
County	San Juan	Denth		
State	New Mexico	Sampling point_		
	180 psig; Sample pressure 470 psig; Te	mperature° F	Container number	RC1167
Remarks				
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#### Attachment No. 13

### Allocation Formula For Gallup and Dakota Production

### C.A. McAdams "B" No. 1

Gas Production

10/82 to 9/83 (Inclusive) Dakota averaged 111 MCFD Gallup estimated to be 75 MCFD (based upon average offset Gallup production)

Percent of total gas production to Dakota =  $\frac{\text{Dakota}}{\text{Gallup + Dakota}}$ 

$$% = \frac{111}{111 + 75} = 59.7%$$

### Oil Production

10/82 to 9/83 (Inclusive) Dakota averaged 5.4 BOPM 9/66 to 8/67 (Inclusive - last production) Gallup averaged 93.8 BOPM

Percent of total oil production to Gallup =  $\frac{\text{Gallup}}{\text{Gallup} + \text{Dakota}}$ 

$$\% = \frac{93.8}{93.8 + 5.4} = 94.5\%$$



S. D. Blossom
District Superintendent

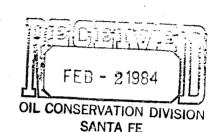
January 26, 1984

Dugan Production Company P. O. Box 208 Farmington, NM 87499

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

File: DHS-23-400.1

C. A. McAdams B No. 1 1850' FSL x 1650' FEL, Section 28, T27N, R10W San Juan County, New Mexico Proposed Downhole Commingling



Amoco Production Company

Petroleum Center Building 501 Airport Drive

505-325-8841

Farmington, New Mexico 87401

Amoco Production Company is requesting approval from the New Mexico Oil Conservation Division to downhole commingle production from the Angels Peak Gallup and Basin Dakota formations in the subject well. Attached are an eight section plat showing the well to be commingled along with offsetting producing wells and a wellbore diagram showing the proposed commingling technique (see Attachments No. 1 and 2).

If you have any questions regarding the commingling operations, please contact Tim Clawson at our Farmington District Office (325-8841). If you have any objectives to commingled production from the subject well, address them to:

New Mexico Oil Conservation Division Attn: Mr. Joe Ramey Box 2088 Santa Fe, NM 87501

If you have objections, please forward a copy of your objectives to this office. No response to this letter will be taken as your approval to the commingling application.

Very truly yours,

TDC/tk Attachments



### 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

BOX 2088 SANTA FE, NEW MEXICO 87501  DATE Z-1-84	भूडिदाहा <u>त्य</u>
RE: Proposed MC Proposed DHC  Proposed NSL Proposed SWD Proposed WFX Proposed PMX	FEB - 0 1984  OIL CONSERVATION DIVISION SANTA FE
Gentlemen:	7-1 04
for the Onco Operator	Co. M. Alom K#1 J-78-27N-10W Lease and Well No. Unit, S-T-R
and my recommendations are a	
Yours truly,	