

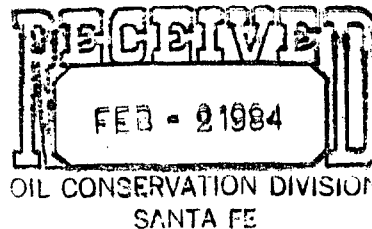


Amoco Production Company

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

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 ✓
Box 2088
Santa Fe, NM 87501

File: DHS-31-986.510

C. A. McAdams "B" No. 2
NW/4, 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 production packer set between the two zones at 6103' and a sliding sleeve at 6072' 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.

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 56.2 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 compatibility (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.

Page 3
January 26, 1984
File: DHS-31-986.510

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 48.6 percent of the gas production to the Dakota formation and 95.3 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

1850' FNL X 790' FWL SEC. 28 T27N R10W
SAN JUAN COUNTY, NEW MEXICO

GL 6038'
KB 6051'

9 5/8" CSA 506' (32.3#,
H-40) X 300 SX CMT

ANGEL PEAK GALLUP PERFS:
5630'-5656'

SLIDING SLEEVE AT 6072'

BASIN DAKOTA PERFS:
6292'-6310' 6341'-6359'
6208'-6220' 6236'-6250'

PACKER AT 6103'

2 3/8" TSA 6261'

PBD 6463'
TD 6509'

7" CSA 6509' (20# X 23#,
J-55) X 650 SX CMT

Amoco Production Company

SCALE:

C. A. MCADAMS GAS COM B NO. 2

DRG.
NO.

Well Location and Acreage Dedication Plat

Section A.

Attachment No. 2

Date March 30, 1959

Operator PAN AMERICAN PETROLEUM CORPORATION Lease C. A. Mc Adams "B"
 Well No. 2 Unit Letter E Section 28 Township 27 NORTH Range 10 WEST NMPM
 Located 1350 Feet From NORTH Line, 790 Feet From WEST Line
 County SAN JUAN G. L. Elevation * Dedicated Acreage 320 Acres
 Name of Producing Formation DAKOTA Pool ANGELS PEAK DAKOTA

1. Is the Operator the only owner in the dedicated acreage outlined on the plat below?
 Yes _____ No X *TO BE REPORTED LATER
2. If the answer to question one is "no", have the interests of all the owners been consolidated by communitization agreement or otherwise? Yes X No _____. If answer is "yes", Type of Consolidation.

JOINT ACREAGE HOLDINGS

3. If the answer to question two is "no", list all the owners and their respective interests below:

Owner

Land Description

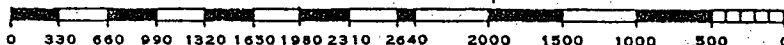
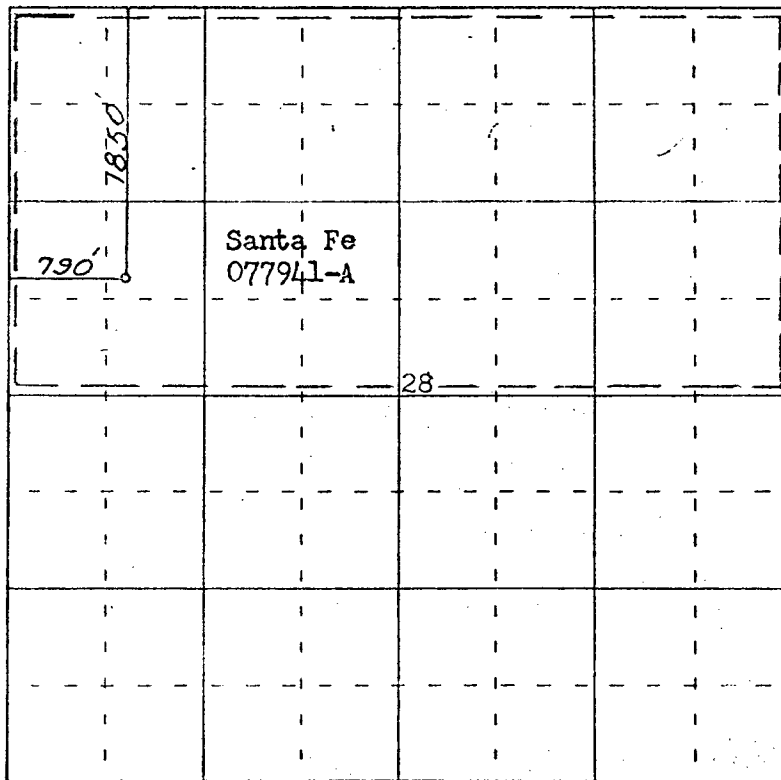
Section B.

This is to certify that the information in Section A above is true and complete to the best of my knowledge and belief.

PAN AMERICAN PETROLEUM CORPORATION

(Operator)
R. M. BAUER, JR. *RMBauer*
 (Representative)
BOX 487, FARMINGTON, NEW MEXICO
 (Address)

Note: All distances must be from outer boundaries of section.



Scale 4 inches equal 1 mile



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 27 March 1959

James P. Leese
 Registered Professional Engineer and/or Land Surveyor
 James P. Leese N. Mex. Reg. No. 1463

Well file

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

June 11, 1959

SEE INSTRUCTIONS FOR COMPLETING THIS FORM ON THE REVERSE SIDE

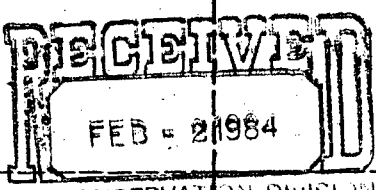
SECTION A

Operator Pan American Petroleum Corporation			Lease G. A. Holdings #8*		Well No. 2
Unit Letter B	Section 29	Township 27 North	Range 10 West	County San Juan	
Actual Footage Location of Well: 790 feet from the west line and 1850 feet from the north line					
Ground Level Elev. 6038	Producing Formation Gallup		Pool Angels Peak Gallup		Dedicated Acreage: 60 Acres

1. Is the Operator the only owner in the dedicated acreage outlined on the plat below? YES _____ NO X . ("Owner" means the person who has the right to drill into and to produce from any pool and to appropriate the production either for himself or for himself and another. (65-3-29 (e) NMSA 1935 Comp.)
2. If the answer to question one is "no," have the interests of all the owners been consolidated by communization agreement or otherwise? YES X NO _____. If answer is "yes," Type of Consolidation: **Joint Acreage Holdings**
3. If the answer to question two is "no," list all the owners and their respective interests below:

Owner	Land Description

SECTION B

1850	
790 x Santa Fe 077941-1	
Notes: Form C-128 filed to show acreage dedication for Gallup zone on dual well presently recovering lead oil from the Gallup	

CERTIFICATION

I hereby certify that the information in SECTION A above is true and complete to the best of my knowledge and belief. **Original**
/s/ R. H. Bauer, Jr.

Name
R. H. Bauer, Jr.

Position
Area Engineer

Company **Pan American Petroleum Corporation**

Date
February 19, 1959

I hereby certify that the well location shown on the plat in SECTION B 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 14, 1959

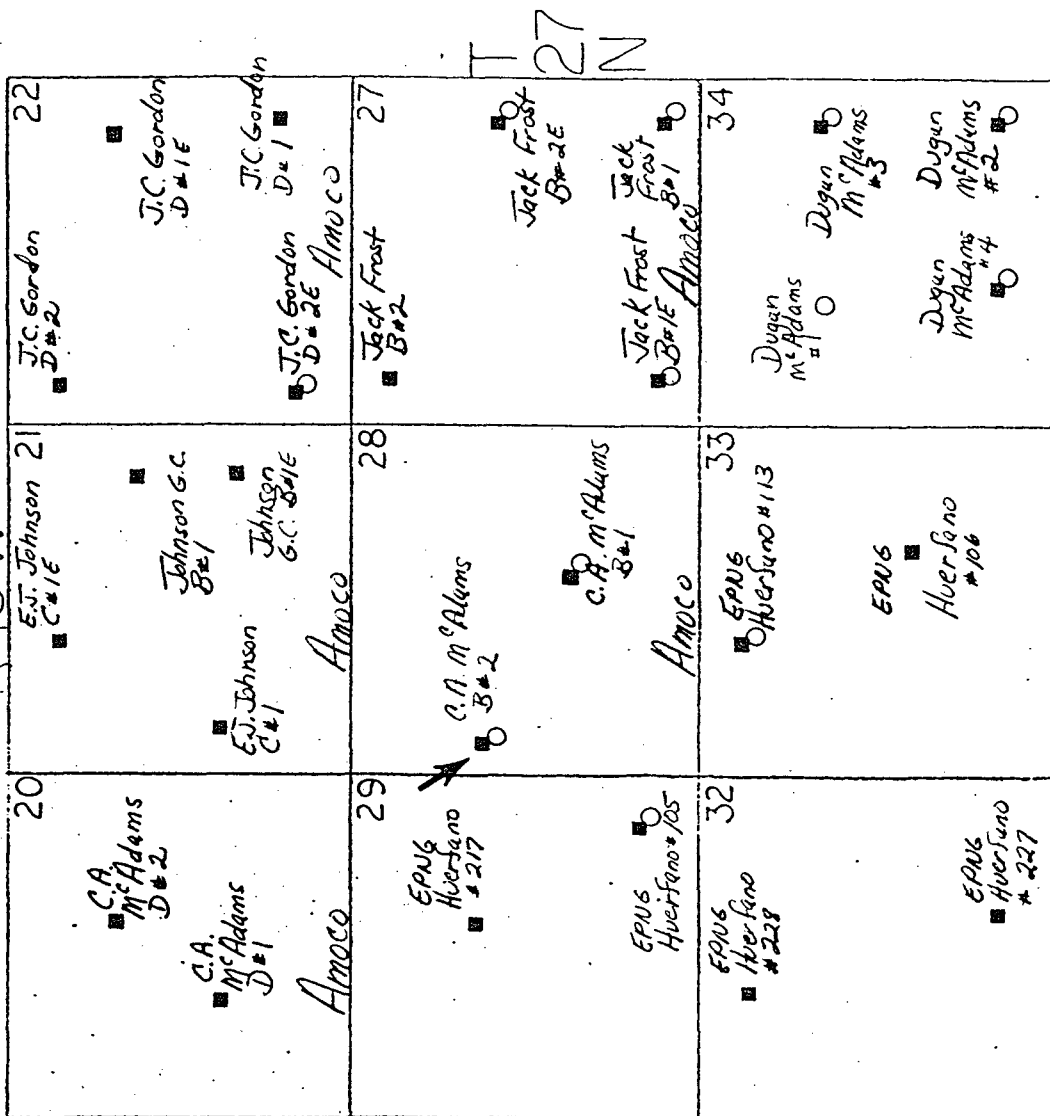
Registered Professional Engineer and/or Land Surveyor **Original**
/s/ James P. Loese

Certificate No. **1463**

0 330 660 990 1320 1650 1980 2310 2640 2000 1500 1000 500 0

C. A. MCADAMS B #2

R I O W



■ BASIN DAKOTA WELLS

○ ANGEL PEAK GALLUP WELLS

NEW MEXICO OIL CONSERVATION COMMISSION

RPT, #A61

PAGE 356

W DELIVERABILITY TEST REPORT FOR 1981

Attachment No. 5

Form C122-A
Revised 8-77

POOL NAME BASIN	POOL SLOPE 75	FORMATION DAKOTA	COUNTY SJ
--------------------	------------------	---------------------	--------------

73-751

COMPANY AMOCO PRODUCTION CO			WELL NAME AND NUMBER CA MCADAMS B #2 DK		
UNIT LETTER E	SECTION 28	TOWNSHIP 27	RANGE 10	PURCHASING PIPELINE EL PASO NATURAL GAS CO	
CASING O.D. - INCHES 7.000	CASING I.D. - INCHES 6.456	SET AT DEPTH - FEET 6509	TUBING O.D. - INCHES 2.375	TUBING I.D. - INCHES 1.995	TOP TUBING PERF. - FEET 6134
GAS PAY ZONE FROM 6208 TO 6359		WELL PRODUCING THRU CASING TUBING X		GAS GRAVITY 0.725	GRAVITY X LENGTH 4447
DATE OF FLOW TEST FROM 05/03/81 TO 05/11/81			DATE SHUT-IN PRESSURE MEASURED 05/18/81		

PRESSURE DATA - ALL PRESSURES IN PSIA

(a) Flowing Casing Pressure (DWI) 0	(b) Flowing Tubing Pressure (DWI) 280	(c) Flowing Meter Pressure (DWI) 278	(d) Flow Chart Static Reading 276	(e) Meter Error (Item c - Item d) 2	(f) Friction Loss (a-c) or (b-c) 2	(g) Average Meter Pressure (Integr.) 247
(h) Corrected Meter Pressure (g+e) 249	(i) Avg. Wellhead Press. $P_1 = (h+f)$ 251	(j) Shut-in Casing Pressure (DWI) 0	(k) Shut-in Tubing Pressure (DWI) 736	(l) P_c = higher value of (i) or (k) 736	(m) Del. Pressure $P_d = 50\% P_c$ 368	(n) Separator or Dehydrator Pr. (DWI) for critical flow only

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 138	Quotient of $\frac{\text{Item c}}{\text{Item d}}$ 1.0072	$\sqrt{\frac{\text{Item c}}{\text{Item d}}}$ 1.0036	Corrected Volume Q = 138 MCF/D
----------------------------------	---	--	-----------------------------------

WORKING PRESSURE CALCULATION

$(1-e^{-s})$.276	$(F_c Q_m)^2 (1000)$ 1,682	$R^2 = \frac{(1-e^{-s})}{(F_c Q_m)^2 (1000)}$ 464	P_i^2 63001	$P_w^2 = P_i^2 + R^2$ 63465	$P_w = \sqrt{P_w^2}$ 252
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DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$ 138	$\left(\frac{406272}{478231} \right)^n = \left(0.8495 \right)^n = 0.8349$	$= 122$ MCF/D
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REMARKS:

SUMMARY

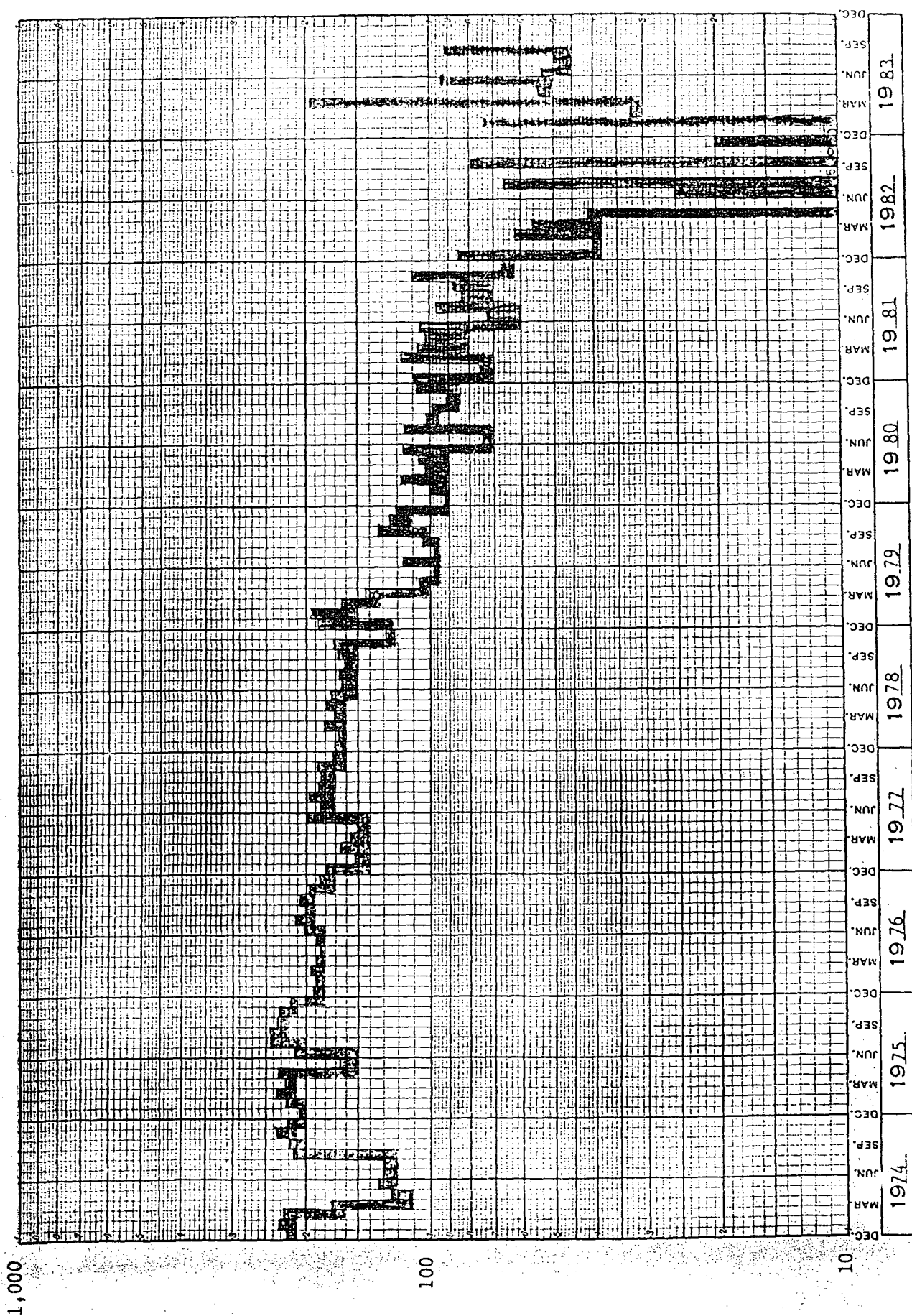
Item h	249	Psia
P_c	736	Psia
Q	138	MCF/D
P_w	252	Psia
P_d	368	Psia
D	122	MCF/D

Company AMOCO PRODUCTION CO
By _____
Title _____
Witnessed By _____
Company _____

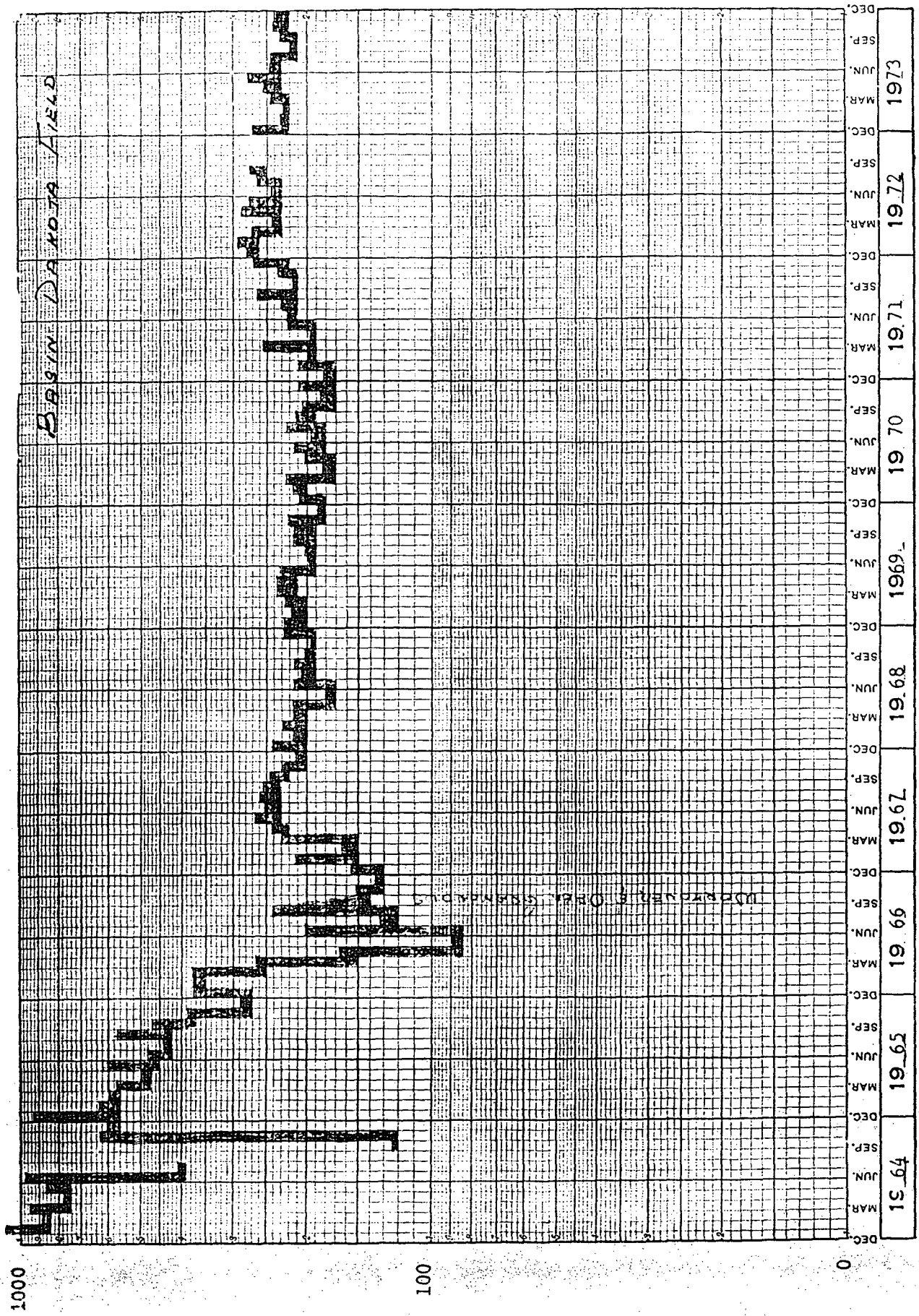
NO. 3157. TEN YEARS BY MONTHS X 2 3-INCH CYCLES RATIO RULING.

Codex® IN STOCK DIRECT FROM CODEX BOOK CO., INC. NORWOOD, MASS. 02
GRAPH PAPER® PRINTED IN U.S.A.

Basin Dakota
C. A. McAdams "B" No. 2

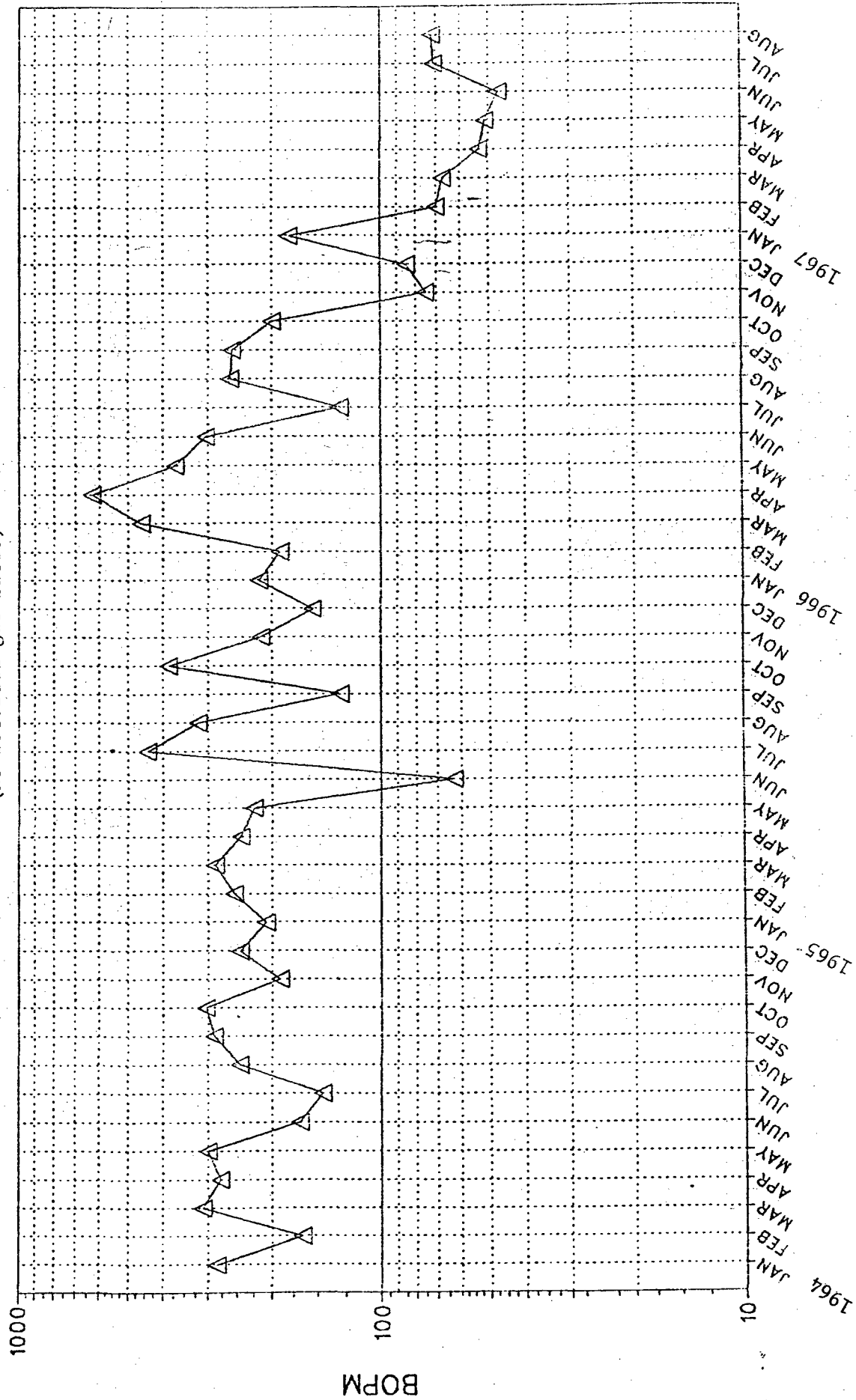


C. A. McAdams "B" No. 2
Basin Dakota



UDOPKONER 8 ORDA GNADADIC

C.A.MCADAMS B NO.2
 Latest Gallup Oil Production
 (No recorded gas rates)



Attachment No. 8

C.A. McAdams "B" No. 2

BHP Data

Dakota

Amerada Bomb

Extension = 0.607

Pressure = 922 psig

Gallup

Sonolog identified Fluid Level at 199 joints from surface.
All Fluid should be 38° oil.

Average Joint = 26.15 ft.

$$\text{BHP} = \text{SICP} + P_H$$

Where

$$P_H = [D_{\text{perf}} - (\text{FL} * \bar{L}_{jt})] \text{ at } \delta_{\text{oil}} \quad \delta_{\text{oil}} = 38^\circ$$

Where

$$\delta_{\text{oil}} = \frac{141.5}{131.5 + 38} = .83 * .433 = .36 \frac{\text{psi}}{\text{ft.}}$$

$$P_H = [5630 - (199 * 26.15)] * .36$$

$$P_H = 153$$

$$\text{BHP} = 365 + 153 = 518 \text{ psig}$$

$$\text{Ratio Gallup to Dakota} = \frac{518}{922} = 56.2\%$$

Symbols

BHP - Bottomhole pressure

SICP = Shut-in casing pressure

P_H = Hydrostatic pressure

D_{perf} = Depth to top perf

FL = Fluid level from surface

$\bar{L}_{jt}$ = Average joint length

δ_{oil} = Oil gravity

Attachment No. 10

SEC 20

CRUDE OIL RUN TICKET LEDGER - AMOCO PRODUCTION COMPANY (USA)

07/09/83

PAGE 8

C	TICKET	PROD.	TANK	UNCORRECTED	CORRECTED	TRUE	PRICE	PRICE/	OIL	VALUE (8)	GROUP	OUTPUT	TAX
FLAC	SF	D	NUMBER	BBL (1)	BBL (2)	GTY	CODE	BBL.	VALUE				

10TT GAS COM /G/ (CONTINUED)

81.64 81.14

2,401.74

2,401.74 (23 VAL-T,C)

ERAL GAS COM /D/

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Attachment No. 11

04/17/82

EL PASO NATURAL GAS COMPANY
MEASUREMENT DEPARTMENT
POST OFFICE BOX 1492
EL PASO, TEXAS 79959

CHROMATOGRAPHIC GAS ANALYSIS REPORTS

AMOCO PRODUCTION CO.
ATTN: R. A. CONNER
501 AIRPORT DRIVE
FARMINGTON, N. M. 87401

ANAL DATE 04 08 82 METER STATION NAME C A MC ADAMS B #2 METER STA 73751
OPER 0203

TYPE CODE	SAMPLE DATE	EFF. DATE	USE MOS.	SCALE	H2S GRAINS	LOCATION
00	04 07 82	04 13 82	06	1		4 F 03

	NORMAL MOL%	GPM
C O 2	1.05	.000
H 2 S	.00	.000
N2	.84	.000
METHANE	79.42	.000
ETHANE	10.96	2.930
PROPANE	4.96	1.364
ISO-BUTANE	.64	.209
NORM-BUTANE	1.23	.388
ISO-PENTANE	.31	.113
NORM-PENTANE	.28	.101
HEXANE PLUS	.31	.135

TOTALS

100.00

5.240

SPECIFIC GRAVITY

.718

MIXTURE HEATING VALUE

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

RATIO 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 Gallup
County San Juan Depth _____
State New Mexico Sampling point _____
Line pressure 480 psig; Sample pressure 470 psig; Temperature _____ ° F; Container number RC1167
Remarks Flowing pressure _____ 480 psig
(4-26-82)

Component	Mole % or Volume %	
Oxygen.....	0	
Nitrogen.....	1.71	
Carbon dioxide.....	0.54	
Hydrogen sulfide.....	Nil	
Methane.....	79.90	
Ethane.....	10.28	
Propane.....	5.22	
Iso-butane.....	0.48	
N-butane.....	1.36	
Iso-pentane.....	0.23	
N-pentane.....	0.22	
Hexanes & higher.....	0.06	
Total.....	100.00	2.209

Gallons
per MCF

GPM of pentanes & higher fraction..... 0.192
Gross btu/cu. ft. @ 60° F. & 14.7 psia (dry basis)..... 1203
Specific gravity (calculated from analysis)..... 0.704
Specific gravity (measured)..... 0.705

Remarks: _____

RECEIVED	
MAY 13 1982	
FARMINGTON	
DISTRICT	
1	<i>but</i>
2	
3	<i>SPM</i>
4	<i>GCM</i>
5	<i>DWS</i>

Wen 27

*cc: 10/28/82
me*

Attachment No. 13

Allocation Formula For Gallup and Dakota Production

C.A. McAdams "B" No. 2

Gas Production

10/82 to 9/83 (Inclusive) Dakota averaged 71 MCFD
Gallup estimated to be 75 MCFD (based upon average offset
Gallup production)

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

$$\% = \frac{71}{71 + 75} = 48.6\%$$

Oil Production

10/82 to 9/83 (Inclusive) Dakota averaged 5 BOPM
9/66 to 8/67 (Inclusive -last production) Gallup average 102 BOPM

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

$$\% = \frac{102}{5 + 102} = 95.3\%$$



Amoco Production Company

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

S. D. Blossom
District Superintendent

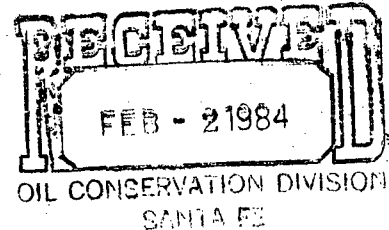
January 26, 1984

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

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

File: DHS-22-400.1

C. A. McAdams B No. 2
1850' FNL x 790' FWL, Section 28, T27N, R10W
San Juan County, New Mexico
Proposed Downhole Commingling



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 off-setting 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



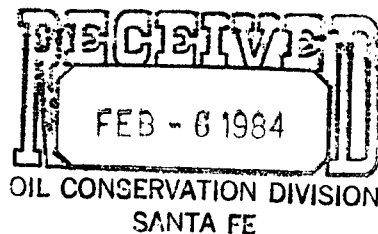
STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
AZTEC DISTRICT OFFICE

1000 RIO BRAZOS ROAD
AZTEC, NEW MEXICO 87410
(505) 334-6178

OIL CONSERVATION DIVISION
BOX 2088
SANTA FE, NEW MEXICO 87501

DATE 2-1-84

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



Gentlemen:

I have examined the application dated 2-1-84
for the Answer C.A. McAdams #2 E-28-27N-10W
Operator Lease and Well No. Unit, S-T-R

and my recommendations are as follows:

Approve

Yours truly,

Frank D. Chang