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

S. D. Blossom
District Superintendent

November 10, 1982

New Mexico Oil Conservation Division
1000 Rio Brazos Rd.
Aztec, NM 87410

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

File: DHS-519-986.510.1

Commingling Application for the Jack Frost B No. 1E
615' FSL x 810' FWL Section 27, T27N, R10W, San Juan County, New Mexico

Amoco Production Company requests approval to commingle production from the Angels Peak Gallup and Basin Dakota pools in the subject well. This commingling will utilize a production packer set between the two zones at 5920' and a sliding sleeve set at 5832' to produce up a 2-3/8" tubing string landed at 6509'.

The commingling of the Gallup and Dakota is necessary because of the low producing rates in the Gallup. After an extended completion period lasting eight months, the Gallup would produce an average of only 225 MCFD and 2 BOPD. To obtain this prodution rate it was necessary to swab the well several times daily. It is assumed the well will not produce by flowing and it will be necessary to utilize the energy in the Dakota to lift the hydrocarbons. Therefore, the only way to produce the zone is by commingling with the Dakota production. The proposed commingling will not adversely affect either zone for the following reasons.

1. Neither zone at the present time produces any formation water. The Gallup did produce some water during swab and flow operations but from water analysis it is shown that this was load water (see Attachment 1).

2. Neither zone has a history of sensitivity to liquid hydrocarbons and should not be damaged by either zone's condensate production.

3. Several offsets have had good success in the downhole commingling of both zones, the most recent being the commingling of Dugan Production Company's McAdams No. 3, Order No. R-5313 one mile to the southeast (see Attachment 2).

4. Since both zones produce gas of approximately the same composition, there will be no loss of value as a result of the commingling.

5. Both zones have common ownership, so there will be no problems in allocating royalty or working interest payments.

6. The bottom hole pressure of the Gallup is 51.7 percent that of the Dakota adjusted to a common datum. This ratio is 1.7 percent above that set down in NMOCD Rule 303C, Order No. R-6882.

In compliance with NMOCD Rule 303C, "Downhole Commingling," please find attached two copies of each of the following:

Attachment No.	
1	Wellbore diagram of the completed well.
2	Well location map showing location of all outside operated wells.
3	"Well Location and Dedication Plat" (NMOCD Form C-102).
4	List of names and addresses of operators of all outside operated wells.
5	A complete well completion history (USGS Form 9-331, "Sundry Notices and Reports on Wells").
6	A complete engineering completion summary on both zones along with complete well test data on the Gallup.
7	NMOCD Form C-116 for the Dakota showing the results of a 168 hour flow test.
8	NMOCD Form C-116 for the Gallup showing the results of a 244 hour flow test. State rules require current (within 30 days) productivity tests. The Gallup test was taken 10-22-81 to 11-3-81. The well was flared for six days then shut in to the present time. Since the Gallup was shut in to the present, we request an exception to be granted to the 30-day limit required for the Gallup.
9	Actual bottom hole pressure taken for the Dakota and Gallup with the Dakota adjusted to a common datum.
10	A copy of the gas analysis of produced gas from the Dakota.
11	A copy of the gas analysis of produced gas from the Angels Peak Gallup.
12	A copy of the letter sent to all offset operators and the Minerals Management Service notifying them of our intent to commingle. This letter has been returned approved by all offset operators and the MMS.

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

1. Allocate 24.40 percent of the gas production as shown on Form C-116 to the Gallup horizon.

2. Allocate 75.60 percent of the gas production as shown on Form C-116 to the Dakota production.

3. Allocate 18.9 percent of the oil production as shown on Form C-116 to the Gallup horizon.

4. Allocate 81.1 percent of the oil production as shown on Form C-116 to the Dakota horizon.

5. Test the well 30 days after approval of commingling and submit a Form C-116 stating each zone's actual oil and gas productivity under commingling conditions and allocating each zone's production accordingly.

We would like to obtain approval for this well as soon as possible so that we can begin production. Your prompt handling of this matter is appreciated.

Sincerely,

S D Blosson

DWS/tk

Attachments

DIVISION LABORATORY

FARMINGTON, NEW MEXICO

ATTACHMENT NO. 1

DW 12

LABORATORY WATER ANALYSIS

Report No: _____

To: Amoco Production Co.

Date: 3/8/82

501 Airport Dr.

Farmington, NM 87401

Attn: Mr. Dave Schott

Submitted By: Dave Schott Date Received: 10/2/81

Well No: Jack Frost B #1E Depth: 4000' Formation: Gallup

Location: San Juan County, NM Swab Sample

Resistivity	0.42	ohms/m^2/m
Temperature	73, °F	
Specific Gravity(Sp.Gr.)	1.007	
pH	6.7	
Total Dissolved Solids	15,533	parts per million*
Calcium (Ca^{++})	326	parts per million
Magnesium (Mg^{++})	21	parts per million
Chlorides (Cl^{-})	6,229	parts per million
Carbonates (CO_3^{--})	0	parts per million
Bicarbonates (HCO_3^{-})	355	parts per million
Sulfates (SO_4^{--})	1,606	parts per million
Iron (Fe^{+++})	present	parts per million
Potassium (K^{+})	6,000 (Estimated)	parts per million
Sodium (Na^{+})(Difference)	996	parts per million
Stability Index (SI)	Not required	

REMARKS: There appears to be about 1% KCL in water

* indicates parts per million by weight; uncorrected for Specific Gravity

LABORATORY ANALYST:

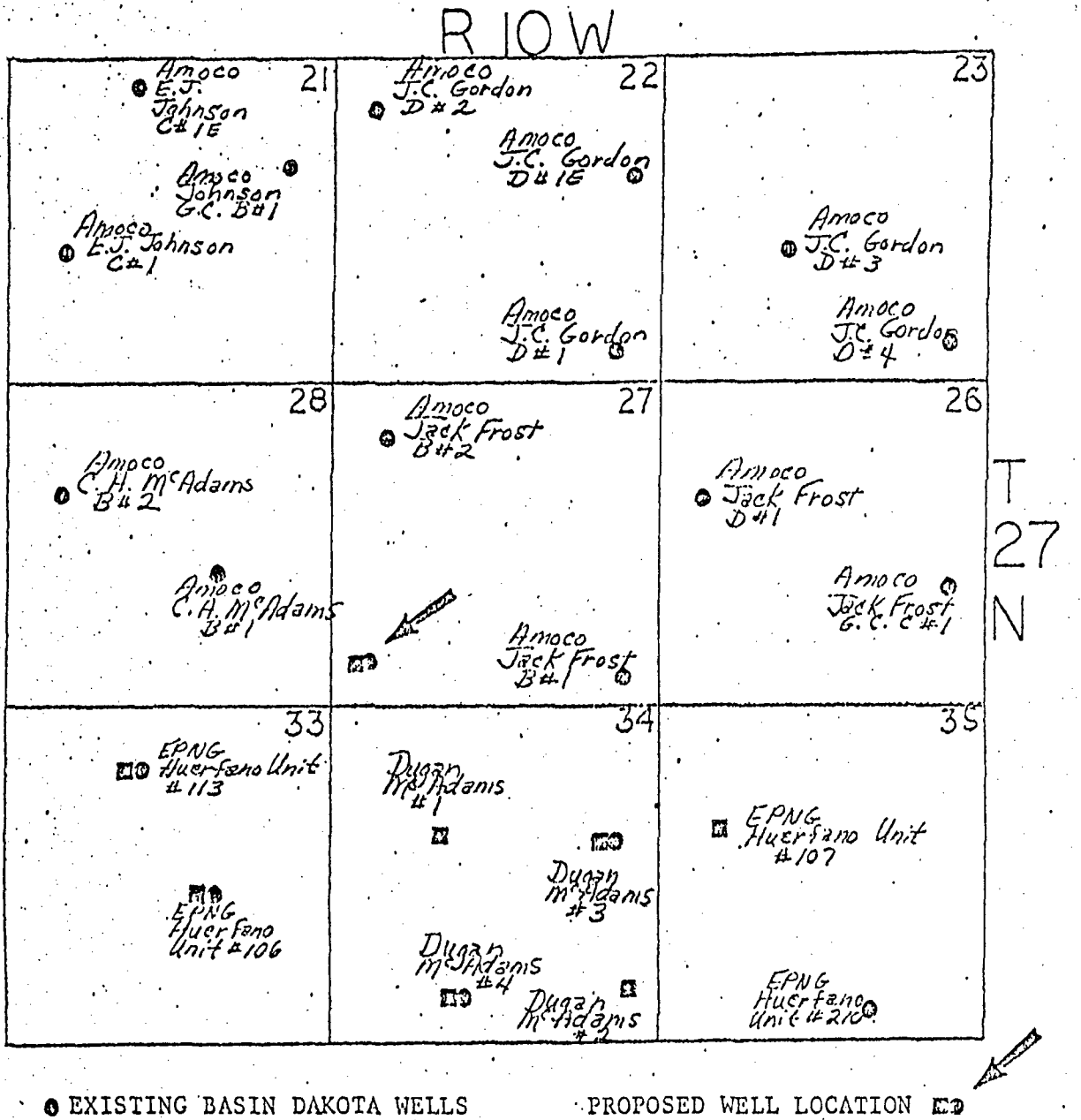
Clarion Cochran

Respectfully submitted,
National Cementers Corporation

By: Clarion A. Cochran

ATTACHMENT NO. 2

JACK FROST B #1E



● EXISTING BASIN DAKOTA WELLS

■ EXISTING ANGEL PEAK GALLUP WELLS

PROPOSED WELL LOCATION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

CONSERVATION DIVISION

P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Amended
RECEIVED
MAY 3 1982
FARMINGTON DISTRICT

ATTACHMENT 3 NO.
Form C-102
Revised 10-1-78

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

Operator	Lease	Well No.
AMOCO PRODUCTION COMPANY	JACK FROST "B"	1-E

Unit Letter	Section	Township	Range	County
M	27	27N	10W	San Juan

Actual Footage Location of Well:
615 feet from the South line and 810 feet from the West line

Ground Level Elev.	Producing Formation	Pool	Dedicated Acreage:
6158	Dakota /Gallup	Basin Dakota /Angels Peak Gallup	320/80 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.

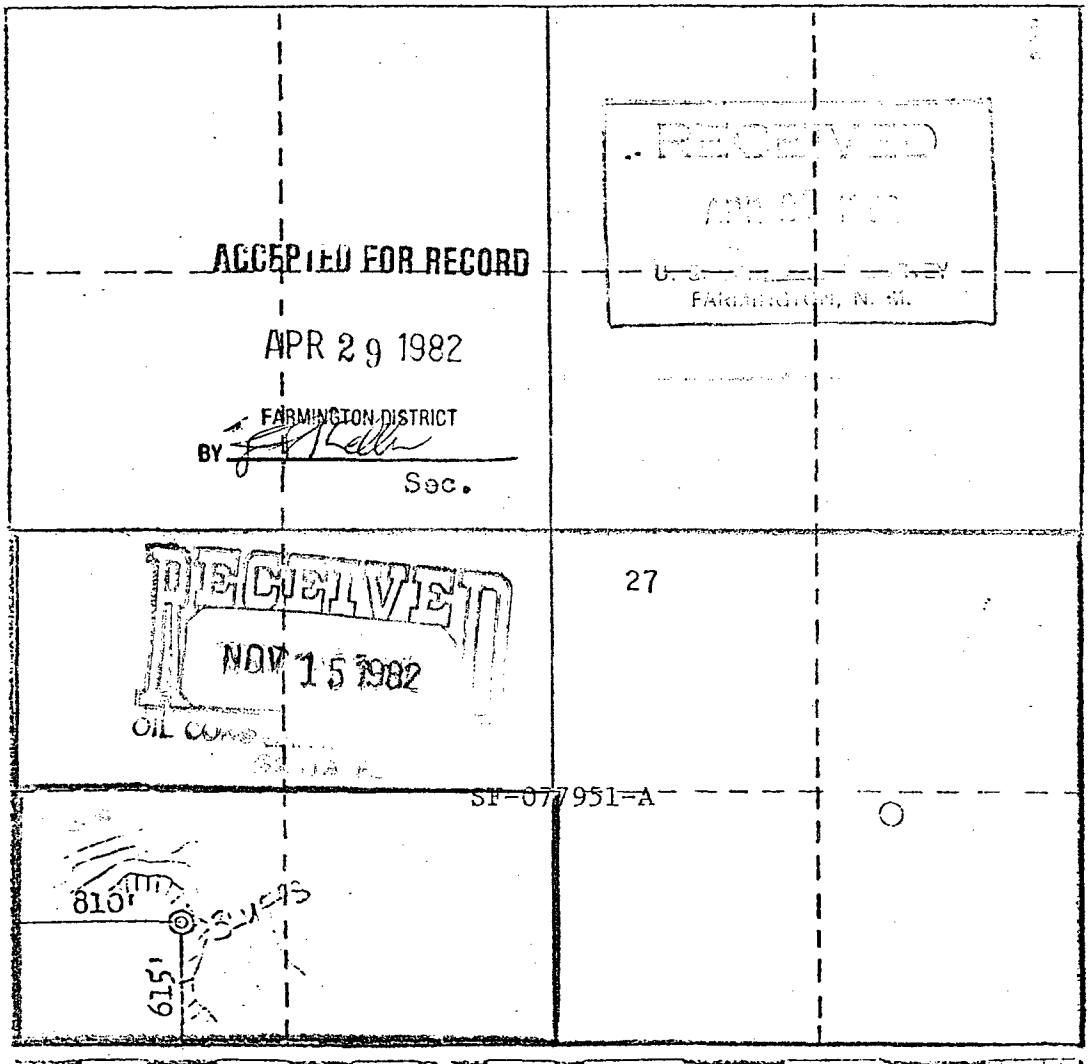
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).

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?

[XX] Yes [ ] No If answer is "yes," type of consolidation Communitization

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.



CERTIFICATION

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

W. L. Peterson

Name: W. L. Peterson

Position: DISTRICT ENGINEER

Company: AMOCO PRODUCTION COMPANY

Date: APRIL 22, 1982

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 15, 1982

Registered Professional Engineer and/or Land Surveyor

Fred B. Kerr Jr.

Certificate No. 3950

REGISTERED LAND SURVEYOR
STATE OF NEW MEXICO

List of names and addresses of operators of all outside operated wells.

Dugan Production Company
P. O. Box 208
Farmington, NM 87401

El Paso Natural Gas Company
P. O. Box 990
Farmington, NM 87401

Form 9-331
Dec. 1973

ATTACHMENT NO. 5

Form Approved.
Budget Bureau No. 42-R1424

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well ☐ gas well ☒ other

2. NAME OF OPERATOR
Amoco Production Company

3. ADDRESS OF OPERATOR
501 Airport Drive, Farmington, NM 87401

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 615' FSL x 810' FWL
AT TOP PROD. INTERVAL: Same
AT TOTAL DEPTH: Same

5. LEASE
SF-077951A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Jack Frost "B"

9. WELL NO.
1E

10. FIELD OR WILDCAT NAME
Basin Dakota/Angels Peak Gallup

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
SW/4, SW/4, Section 27, T27N, R10W

12. COUNTY OR PARISH
San Juan

13. STATE
NM

14. API NO.
30-045-24356

15. ELEVATIONS (SHOW DF, KDB, AND WD)
6158' GL

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF	☐		☐
FRACTURE TREAT	☐		☐
SHOOT OR ACIDIZE	☐		☐
REPAIR WELL	☐		☐
PULL OR ALTER CASING	☐		☐
MULTIPLE COMPLETE	☐		☐
CHANGE ZONES	☐		☐
ABANDON*	☐		☐
(other) Completion			

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

RECEIVED
MAR 12 1981
U. S. GEOLOGICAL SURVEY
FARMINGTON, N. M.

RECEIVED
APR 23 1982
OIL CONS. DIV.
SANTA FE

RECEIVED
NOV 15 1982
OIL CONS. DIV.

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Completion operations commenced on 1-28-81. Total depth of the well is 6615' and plug back depth is 6566. Perforated intervals from 6500-6508, 6419-6461, 6369-6375 with 2 spf, a total of 112, .38" holes. Fraced Dakota intervals with 108,000 gallons of frac fluid and 367,000# 20-40 sand. Perforated intervals from 5757-5782 with 2 spf, a total of 50, .38" holes. Fraced with 20,500 gallons of frac fluid and 71,000# of 20-40 sand. Perforated intervals from 5489-5497, 5503-5508, 5590-5609, 5618-5623, 5661-5711, with 2 spf, a total of 174, .38" holes. Frac Gallup with 100,000 gallons of frac fluid and 125,000# of 20-40 sand. Land 2 3/8" tubing at 5781'. Swabbed the well and released the rig on 2-27-81.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED Original Signed By E. T. SVOBODA TITLE Dist. Admin. Supvr DATE 3/11/81

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

OPERATOR

*See Instructions on Reverse Side

ACCEPTED FOR RECORD
MAR 13 1981
FARMINGTON DISTRICT

070-4-0565-Farmington
1-M.F. Brown
1-Opr

COMPLETION HISTORY, JACK FROST "B" NO. 1E

1-29-81: Move in and rig up service unit
1-31-81: Perforated 6461-6419', 6379'-6369', 6500'-6508' with 2 JSPF. Fraced Dakota with 108,000 gallons 40 & 30 lbs crosslinked gelled water with 5% condensate. Flushed with 10,235 gallons 2% KCL water. ISIP 740 psi.
2-2-81: Perforate 5757'-5782' with 2 JSPF.
Fraced Gallup with 20,500 gallon 40 lb crosslinked gelled water with 5% condensate. Flush with 9,251 gallons 2% KCL water ISIP 350 psi.
2-7-82: Perforated Gallup 5489'-5497', 5503'-5508', 5590'-5609', 5618'-5623', 5661'-5711'. Perforate 5533'-5542'. Frac entire interval down casing with 100,000 gallons 75 quality foam with 20 lb gelled water and 8 gal suds/1000 gallons flush with 8820 gallons foam. ISIP 700 psi.

Well Test Data in the Gallup

Date	Comments	BWPD	BOPD	MCFD
2-27	SWB	16	8	
2-28	SWB & FLW	30	-	
3-1	SWB & FLW	22-1/2	2-1/2	
3-2	SWB & FLW	30	3	
3-10	FLW		20	
3-13	FLW	80	20	
3-14	SWB		38	
3-15	SWB & FLW		40	
3-18	SWB & FLW		60	
3-19	SWB & FLW		24	
3-22	SWB		0	94
3-23	SWB & FLW		17	64
3-24	FLW		16	76
3-25	FLW		10	70
3-27	Well Dead - WO Workover			

3-28-81 to 9-28-81: Well was SI, WO workover
9-29-81: Move in and rig up service unit
10-2-81: Set packer at 5369 ft. Rig up Howco and pumped 5900 gal of 2% KCL and 1 gal surfactant per 1000 gallons water. Nitrified water with 600 SCF/BBL, 79,500 SCF nitrogen used. Rate was 3 BPM at 2750 psi. ISIP was 1700 psi; 15 ISIP was 1650 psi. Rigged down Howco.

Test Summary:

Date	Comments	BWPD	BOPD	MCFD
10-3-81	SWB	55	trace	
10-4-81	SWB	38	trace	
10-5-81	SWB	25	4	
10-7-81	SWB & FLW	30	5	
10-8-81	SWB & FLW	40	9	
10-10-81	SWB & FLW	1	3	333
10-12-81	SWB & FLW	2	3	163
10-14-81	SWB & FLW	1	0	130
10-15-81	SWB & FLW	2	3	123

COMPLETION HISTORY, JACK FROST "B" NO. 1E (Cont.)

Date	Comments	BWPD	BOPD	MCFD
10-16-81	Pumped 5700 gal nitrified paraffin acid dispersent			
10-22-81	SWB & FLW	1	1	155
10-23-81	SWB & FLW	.3	1.5	152
10-24-81	SWB & FLW	.75	1	188
10-26-81	SWB & FLW	.75	2.8	287
10-27-81	SWB & FLW	-	3	237
10-28-81	SWB & FLW	0	.5	186
10-29-81	SWB & FLW	1	1.5	237
10-30-81	SWB & FLW	1	5	208
10-31-81	SWB & FLW	-	1.5	290
11-1-81	SWB & FLW	1	3	257
11-2-81	SWB & FLW	-	3	307
11-3-81	SWB & FLW	-	2	203

11-4-81 to 11-10-81: Blow well to bit and flare
11-10-81: SI to present

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

ATTACHMENT NO. 7
Form C-116
Revised 10-1-78

GAS - OIL RATIO TESTS

Operator	Pool	County
Amoco Production Company	Basin Dakota	San Juan

Address	TYPE OF TEST - (X)			
501 Airport Drive, Farmington, NM 87401	Scheduled [X]	Completion [ ]	Special [ ]	

LEASE NAME	WELL NO.	LOCATION U	S	T	R	DATE OF TEST	STATUS	CHOKE SIZE	TBG. PRESS.	DAILY ALLOWABLE	LENGTH OF TEST HOURS	PROD. DURING TEST WATER BBLS.	GRAV. OIL	OIL BBLS.	GAS M.C.F.	GAS - OIL RATIO CU.FT/BBL
Jack Frost B	1E	M	27	27	10	10-1-82 to 10-20-82	F	Open	250		480	2		185	13,932	75,308

696 MCF/day

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 Division.

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 Division 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)

(Title)

(Date)

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

ATTACHMENT NO. 8
Form C-116
Revised 10-1-78

GAS-OIL RATIO TESTS

Operator	Pool	County
Amoco Production Company	Angel Peak Gallup	San Juan

Address: 501 Airport Drive, Farmington, NM 87401

TYPE OF TEST - (X): Scheduled [ ] Completion [ ] Special [X]

LEASE NAME	WELL NO.	LOCATION U	S	T	R	DATE OF TEST	STATUS	CHOKE SIZE	TBG. PRESS.	DAILY ALLOWABLE	LENGTH OF TEST HOURS	PROD. DURING TEST WATER BBLS.	GRAV. OIL	OIL BBLS.	GAS M.C.F.	GAS - OIL RATIO CU.FT/BBL
Jack Frost B	1E	M	27	27	10	10-22-81 to 11-3-81	F	OPEN	100		288	5.8		25.8	2707	104,922
															225.6 MCF/bbl	

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 Division.

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 Division in accordance with Rule 301 and appropriate pool rules.

I hereby certify that the above informatio
is true and complete to the best of my know
ledge and belief.

(Signature)

(Title)

BHP Calculations for the Jack Frost B No. 1E

The BHP of the Dakota and Gallup formations was measured by a 3000 psi Amerada RPG-3 pressure bomb. Each zone was shut-in seven days prior to the BHP measurement. The results of the tests are summarized below:

Date	Depth Stopped	Extension	Pressure	Formation
10-28-82	Surface	.293	443 psi	Gallup
10-28-82	5810 ft	.353	534 psi	Gallup
11-5-82	Surface	.567	861 psi	Dakota
11-5-82	6370 ft	.691	1050 psi	Dakota

The Dakota pressure gradient is .0297 psi/ft. The Dakota pressure adjusted to a common datum of 5810 feet with the Gallup is:

6370 ft - 5810 ft = 560 ft x .0297 psi/ft = 17 psi,
1050 psi - 17 psi = 1033 psi

Gallup BHP at 5810 ft = 534 psi
Dakota BHP at 5810 ft = 1033 psi

Therefore, the Gallup BHP is 51.7 percent that of the Dakota adjusted to a common datum.

ATTACHMENT NO. 10

04/08/82

EL PASO NATURAL GAS COMPANY
MEASUREMENT DEPARTMENT
POST OFFICE BOX 1492
EL PASO, TEXAS 79999

CHROMATOGRAPHIC GAS ANALYSIS REPORTS

AMOCO PRODUCTION CO.
ATTN: O. N. THURSTON
501 AIRPORT DRIVE
FARMINGTON, NM 87401

ANAL DATE 04 06 82 METER STATION NAME JACK FROST B #1E METER STA 94153 OPER 0203

TYPE CODE	SAMPLE DATE	EFF. DATE	USE MOS.	SCALE	H2S GRAINS	LOCATION
00	04 05 82	04 08 82	11			4 F 03

	NORMAL MOL%	GPM
C O 2	1.20	.000
H 2 S	.00	.000
N2	1.16	.000
METHANE	77.32	.000
ETHANE	12.18	3.256
PROPANE	5.73	1.576
ISO-BUTANE	.68	.222
NORM-BUTANE	1.17	.369
ISO-PENTANE	.26	.095
NORM-PENTANE	.19	.069
HEXANE PLUS	.11	.048
TOTALS	100.00	5.635

SPECIFIC GRAVITY .725

MIXTURE HEATING VALUE
(BTU/CF AT 14.73 PSIA,60 DEGREES,DRY) 1,231

RATIO OF SPECIFIC HEATS 1.279

NO TEST SECURED FOR H2S CONTENT

ATTACHMENT NO. 11

10/09/81

EL PASO NATURAL GAS COMPANY
MEASUREMENT DEPARTMENT
POST OFFICE BOX 1492
EL PASO, TEXAS 79999

CHROMATOGRAPHIC GAS ANALYSIS REPORTS

DUGAN PRODUCTION CORP.
P.O. BOX 208
FARMINGTON, NM 87401

METER STA 74713
ANAL DATE 10 07 81 METER STATION NAME MCADAMS #3 GL OPER 1862

TYPE CODE	SAMPLE DATE	EFF. DATE	USE NOS.	SCALE	H2S GRAINS	LOCATION
00	10 06 81	10 09 81	06			4 F 02

	NORMAL MOL%	GPM
C O 2	1.15	.000
H 2 S	.00	.000
N2	1.36	.000
METHANE	76.37	.000
ETHANE	11.39	3.045
PROPANE	5.72	1.574
ISO-BUTANE	.80	.262
NORM-BUTANE	1.62	.510
ISO-PENTANE	.61	.223
NORM-PENTANE	.59	.214
HEXANE PLUS	.39	.170
TOTALS	100.00	5.998

SPECIFIC GRAVITY .753

MIXTURE HEATING VALUE
(BTU/CF AT 14.73 PSIA,60 DEGREES,DRY) 1,271

RATIO OF SPECIFIC HEATS 1.273

NO TEST SECURED FOR H2S CONTENT

ATTACHMENT NO. 12

Amoco Production Company

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

R. W. Schroeder
District Superintendent

April 22, 1982

Dugan Production Company
P.O. Box 208
Farmington, NM 87401

Minerals Management Services
Drawer 600
Farmington, NM 87401

El Paso Natural Gas Company
P.O. Box 990
Farmington, NM 87401

File: WLP-156-986.510.1

Proposed Downhole Commingling of Jack Frost B No. 1E,
San Juan County, New Mexico

Dear Sir:

This is to advise you that the Farmington District Office of Amoco Production Comapny is requesting administrative approval from the Secretary-Director of the New Mexico Oil Conservation Division to downhole commingle production from the well below:

Jack Frost B No. 1E Unit M, Section 27, T27N, R10W

This well has been completed in the Angel Peak Gallup and the Basin Dakota pools.

Enclosed is a wellbore diagram and a map showing location of offset operated wells.

If you, as an offset operator, have no objections to the commingled production of the Angel Peak Gallup and Basin Dakota pools from the subject well, please sign the waiver below and send to:

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

We would appreciate your sending one executed copy to the undersigned.

Very truly yours,

Original Signed By
R. W. SCHROEDER

DWS/tk

Enclosures

W A I V E R

We hereby waive any objections to Amoco Production Company's application for commingling production as set forth above.

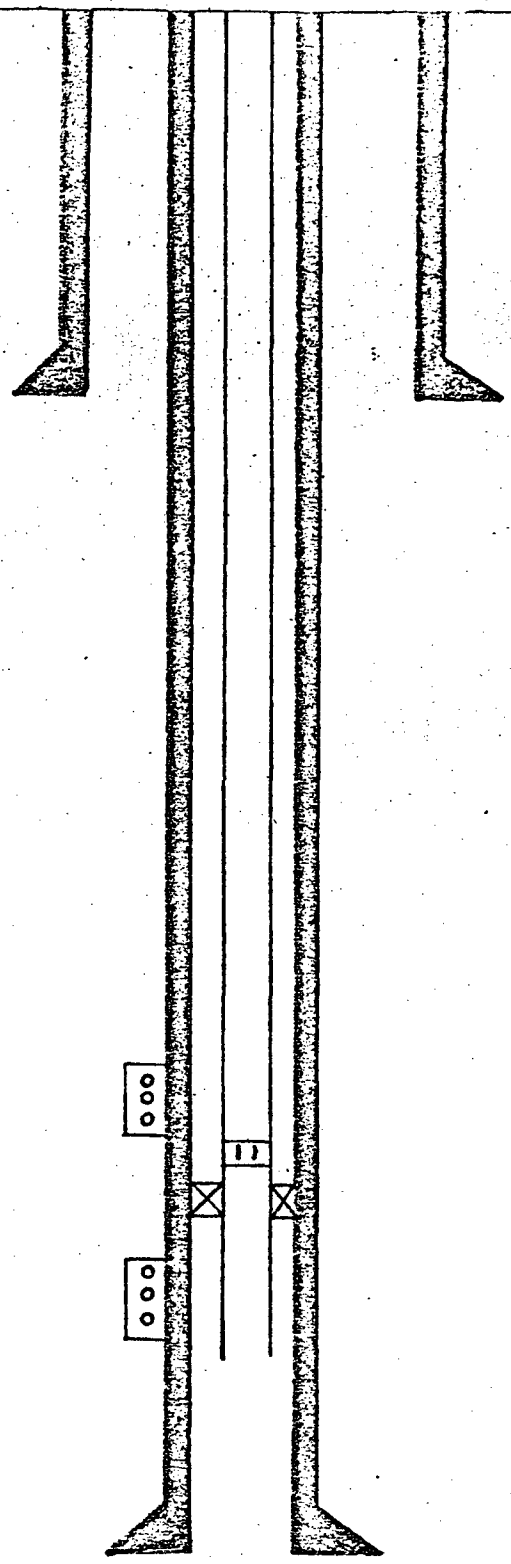
_____
Company

_____
By

_____
Date

615' FSL X 810' FWL SECTION 27 T27N R10W
SAN JUAN COUNTY, MEXICO

ATTACHMENT NO. 13



9 5/8" 32.3# H-40 ST&C
CSA 309' WITH 380 SX CMT

GALLUP PERFORATIONS:
5489'-5782'

DAKOTA PERFORATIONS:
6369'-6508'

MODEL L SLIDING SLEEVE
AT 5828'

SET BAKER LOCK SET MODEL
A-2 @ 5920'

2 3/8" TSA 6509'

7" 26# K-55 ST&C CSA
6615' WITH 1080 SX CMT

PBD 6566'
TD 6615'

Amoco Production Company	SCALE
JACK FROST B #1E	DRG

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 Nov. 17, 1982

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

RECEIVED
NOV 23 1982
OIL CONSERVATION DIVISION
SANTA FE

Gentlemen:

I have examined the application dated Nov. 12, 1982

for the Amoco Jack Frost B #1E M-27-27N-10W
Operator Lease and Well No. Unit, S-T-R

and my recommendations are as follows:

Approve

Yours truly,

Ernest D. Chavez