



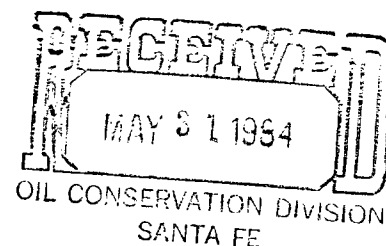
Amoco Production Company

501 Airport Drive
Farmington, NM 87401

S. D. Blossom
District Manager

May 24, 1984

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



File: TKA-169-400.1

Dear Sirs:

Commingling Application for the L.C. Kelly No. 4E
Section D3, T30N, R12W, San Juan County, New Mexico

Amoco Production Company requests approval to commingle production from the Flora Vista Gallup and Basin Dakota horizons in the subject well. Commingling is necessary due to producing rates from the Gallup that are too low to economically dual complete the well. There will be no crossflow between the two zones as neither zone is sensitive to produced liquids, and there will be no loss of value of production. Finally, the working interest and royalty of both zones are the same, and the bottom hole pressure of the Gallup is more than 50 percent of the bottom hole pressure of the Dakota. We therefore request approval of our commingling application.

As required by Rule 303C, we have attached two copies of the following:

1. Acreage plat
2. Form C-116
3. Bottom hole pressures
4. Gas analyses of two offsetting Gallup-Dakota commingled wells.
5. Recommended allocation formula
6. Completion history
7. Copy of notification to offset operators

This well is a new completion, and thus no production decline curves, are supplied. Neither zone makes any condensate and there is no fluid compatability problem. In conclusion, production from the Gallup is too

Page 2
May 24, 1984
TKA-169-400.1

low to warrant dual completion with the Dakota. Therefore, please approve our application to commingle at your earliest convenience.

Yours very truly,

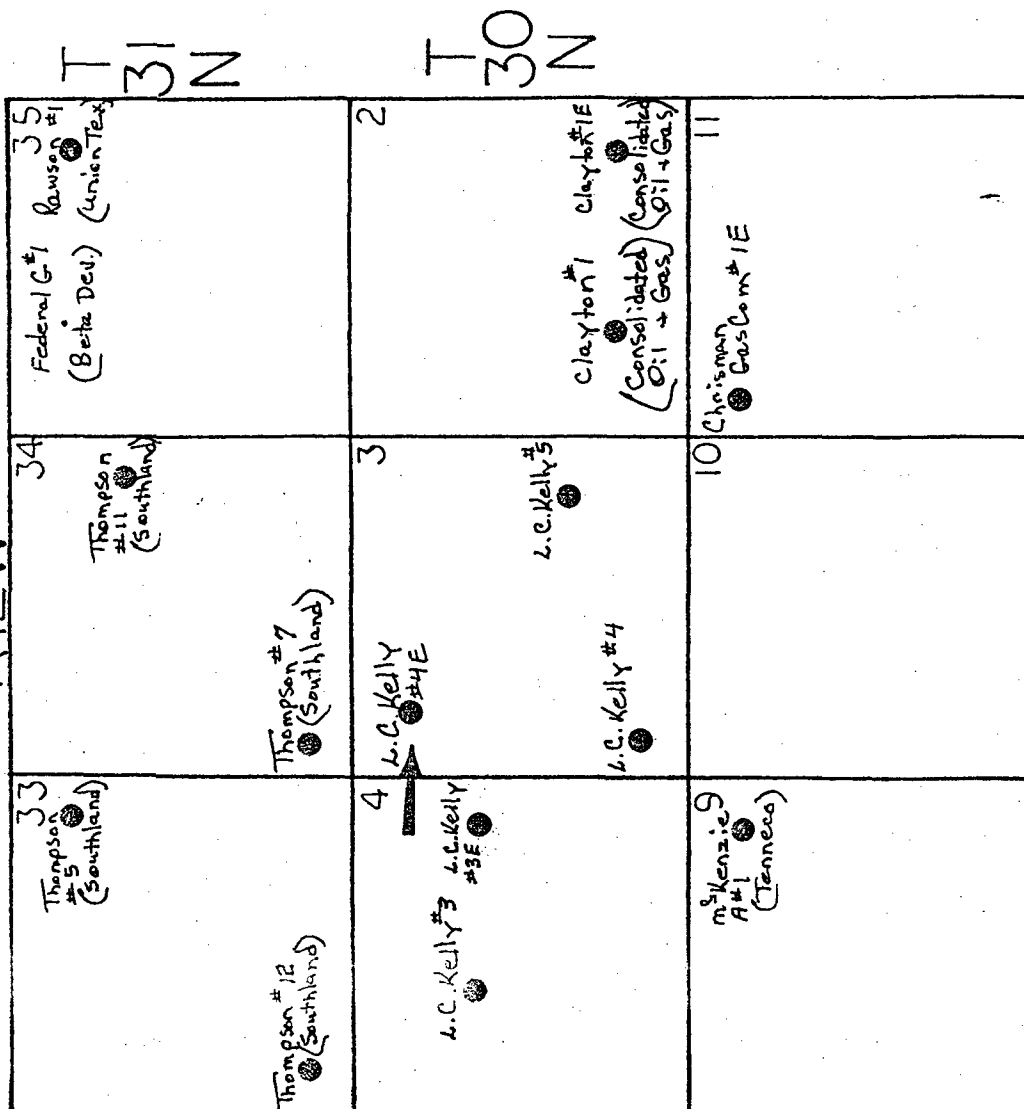
S.D. Blossom TRA

DSR/ct

Attachment

AM8

R12W



● AMOCO OPERATED

● OUTSIDE OPERATED

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

Form C-107
Revised 10-1-78

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

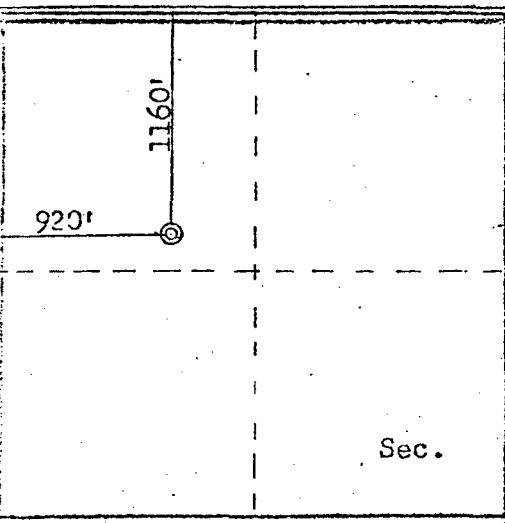
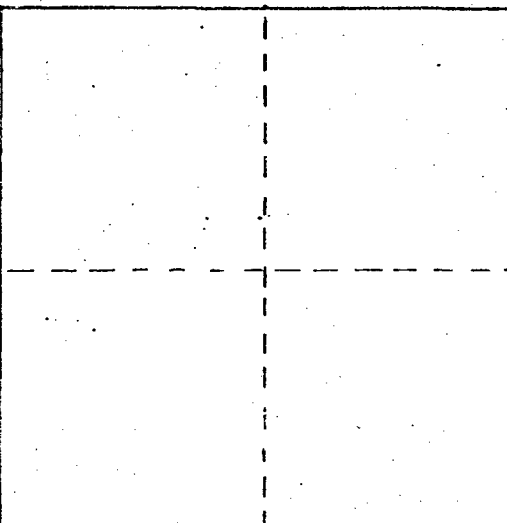
Operator AMOCO PRODUCTION COMPANY			Lease L. C. KELLY		Well No. 4E
Map Letter D	Section 3	Township 30N	Range 12W	County San Juan	
Actual Footage Location of Well:					
1160 feet from the North line and		920 feet from the West line			
Ground Level Elev: 5939	Producing Formation Dakota/Gallup		Pool Basin Dakota/Flora Vista Gallup		Dedicated Acreage: 320/160 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?

☐ 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.

CERTIFICATION

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

Original Signed By

Name

Darrell D. Lawson

Position

District Admin. Super.

Company

Amoco Production Co.

Date

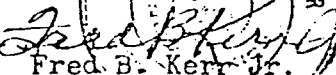
10-4-83

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

September 2, 1983

Registered Professional Engineer
and Land Surveyor


Fred B. Kerr Jr.

Certificate No. 13,848

GAS-OIL RATIO TESTS

Operator		Pool	County										
Amoco Production Company		Basin Dakota-Flora Vista Gallup	San Juan										
Address		TYPE OF TEST		SCHEDULED		COMPLETED		REMARKS					
501 Airport Drive, Farmington, NM 87401		TEST - (X)		DATE		DAILY ALLOWABLE		LENGTH OF TEST HOURS					
LEASE NAME	WELL NO.	LOCATION			DATE OF TEST	CHOKE SIZE	WBG. PRESS.	DAILY ALLOWABLE	LENGTH OF TEST HOURS	PROD. DURING TEST			GAS - OIL RATIO CU.FT./BBL.
		U	S	T						R	WATER BBL.	GRAV. OIL	
L C Kelly Dakota Gallup	4E	D	3	30	12	4-5-84	0.75	72		3			120
						4-12-84	0.75	16					

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 the 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)

District Manager

(Title)

May 25, 1984

WELL NAME LCKELLY 4-1^F DATE 5-8-84

SHUT-IN TUBING 1060 SHUT-IN CASING 1080

TYPE OF INSTRUMENT USED AMERSON KPG-3

DATE ELEMENT CALIBRATED _____

SI DATE _____

COMMENTS Bump For Co-Mingling

[illegible]

WELL NAME Lc KELLY 4-E DATE 4-4-84

SHUT-IN TUBING 1620 SHUT-IN CASING 836

TYPE OF INSTRUMENT USED AMERADA RPG-3

PRESSURE RANGE OF ELEMENT 0-300 C

DATE ELEMENT CALIBRATED _____

BHP 2231

SI DATE 3-28-84

COMMENTS BOMB PRIOR TO POT TEST

[illegible]

07/25/82

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

CHROMATOGRAPHIC GAS ANALYSIS REPORTS

ARCOO PRODUCTION CO.
 ATTN: R. A. CONNER
 501 AIRPORT DRIVE
 FARMINGTON, N. M. 87411

ANAL DATE 08 22 82

METER STATION NAME
 L C KELLY CRGLD #5 GL

METER STA 75074
 OPER 0203

TYPE CODE	SAMPLE DATE	EFF. DATE	USE MOD.	SCALE	H2S GRAINS	LOCATION
00	08 21 82	08 24 82	06			4 F 04

	NORMAL MOL%	GPM
C O 2	1.11	.000
H 2 S	.00	.000
NE	.37	.000
METHANE	73.40	.000
ETHANE	14.30	3.822
PROPANE	6.60	1.816
ISOBUTANE	.85	.278
NORM-BUTANE	1.84	.580
ISOPENTANE	.54	.198
NORM-PENTANE	.49	.177
HEXANE PLUS	.50	.218

TOTALS

100.00

7.089

SPECIFIC GRAVITY

.775

MIXTURE HEATING VALUE

(BTU/GAL AT 14.73 PSIA, 60 DEGREES, DRY) 1,325

RATIO OF SPECIFIC HEAT

1.269

10/25/82

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

CHROMATOGRAPHIC GAS ANALYSIS REPORTS

KRECO PRODUCTION CO.
ATTN: R. A. CUNNER
501 AIRPORT DRIVE
FARMINGTON, N. M. 87401

ANAL DATE 06 22 82

METER STATION NAME
L C KELLY CMGLD #5 DK

METER STA 75075
OPER 0203

TYPE CODE	SAMPLE DATE	OFF. DATE	USE MODS.	SCALE	H2S GRAINS	LOCATION
00	06 21 82	06 24 82	06			4 F 04

	NORMAL MOL%	GPM
C 2	1.11	.000
n 2 S	.00	.000
NE	.37	.000
METHANE	73.40	.000
ETHANE	14.30	3.822
PROPANE	0.60	1.816
ISOBUTANE	.85	.278
NORM-BUTANE	1.84	.580
ISOPENTANE	.54	.198
NORM-PENTANE	.49	.177
HEAVY PLUS	.50	.218

TOTALS	100.00	7.089
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SPECIFIC GRAVITY	.775
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MIXTURE HEATING VALUE (BTU/CF AT 14.73 PSIA, 60 DEGREES, DRY)	1,325
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RATIO OF SPECIFIC HEATS	1.269
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12/18/81

EL PASO NATURAL GAS COMPANY

MEASUREMENT DEPARTMENT

POST OFFICE BOX 1492

EL PASO, TEXAS 79999

CHROMATOGRAPHIC GAS ANALYSIS REPORTS

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

ANAL DATE 12 10 81

METER STATION NAME
L C KELLY CMGLD #3 GL

METER STA 75983
OPER 0203

TYPE CODE	SAMPLE DATE	EFF. DATE	USE MOS.	SCALE	H2S GRAINS	LOCATIO.
00	12 09 81	12 14 81	06			4 F 3

	NORMAL MOLS	GPM
C O 2	1.50	.000
H 2 S	.00	.000
N2	.56	.000
METHANE	88.41	.000
ETHANE	6.64	1.775
PROPANE	2.83	.779
ISO-BUTANE	.50	.134
NORM-BUTANE	.74	.233
ISO-PENTANE	.29	.106
NORM-PENTANE	.24	.087
HEXANE PLUS	.29	.127

TOTALS	100.00	3.271
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SPECIFIC GRAVITY .666

MIXTURE HEATING VALUE
(BTU/CF AT 14.73 PSIA, 60 DEGREES, DRY) 1,143

RATIO OF SPECIFIC HEATS 1.290

EL PASO NATURAL GAS COMPANY

MFT-3SL 175 CHROMATOGRAPHIC GAS ANALYSIS REPORT

02-196-01

RPT DATE 10 17 80

METER STA 87463

ANAL DATE 10 13 80

METER STATION NAME

OPER 3203

L C KELLY CMGLD #3 DK

TYPE CODE	SAMPLE DATE	EFF. DATE	USE MGS.	SCALE	H2S GRAINS	LOCATION
C	06 13 80	06 17 80	06	1	0000*	4 F 04

NORMAL
MOL%

GPM

C C 2

01.05

0.000

H 2 S

00.00*

0.000

N2

00.60

0.000

METHANE

73.47

0.000

ETHANE

11.64

3.111

PROpane

05.08

1.396

ISO-BUTANE

00.65

0.213

NORM-BUTANE

01.42

0.447

ISO-PENTANE

00.38

0.139

NORM-PENTANE

00.34

0.123

HEXANE PLUS

00.37

0.162

TOTALS

100.00

5.593

SPECIFIC GRAVITY

0.726

MIXTURE HEATING VALUE

(BTU/CF @ 14.73 PSIA, 50 DEGREES, DRY) 1247

RATIO OF SPECIFIC HEATS

1.279

NO TEST SECURED FOR DETERMINATION H2S CONTENT.

Completion History

Dakota

Perforated 6780-6804 & 6822-6842.

Frac w/26,000 gal 40 lb gel and 41,000 gal 20 lb gel containing 1 gal/1000 surfactant, 2% KCL and 86,000 lbs 20-40 sand.

Gallup

Perforated 5865-6136 with 1 jsp2f. Frac w/14,000 gal 40 lb gel and 49,966 gal 20 lb gel containing 1 gal/1000 surfactant, 2% KCL and 71,938 lbs 20-40 sand. Frac sanded off. Refractured w/33,000 gal 30 lb gel containing 1 gal/1000 surfactant, 2% KCL and 52,000 lbs 20-40 sand.

Recommended Allocation Formula

Amoco Production Company recommends the following percentages be used to allocate hydrocarbons to the Gallup and Dakota horizons in the L. C. Kelly No. 4E:

	<u>Gas</u>	<u>Condensate</u>
Gallup	25.1%	82.8%
Dakota	74.9%	17.2%

Note: The gas allocation percentages were calculated using initial potential test results. The oil allocation percentages were based on averages of allocation factors of the L. C. Kelly No. 3 and L. C. Kelly No. 5.



Amoco Production Company

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

S. D. Blossom
District Manager

May 29, 1984

Southland Royalty
410 17th St. No. 1000
Denver, CO 80202

File: TKA-183-400.1

Dear Sirs:

Commingle Application for L.C. Kelly No. 4E
Section D3, T30N, R12W, San Juan County, New Mexico

Amoco Production Company has applied for approval to commingle the Gallup and Dakota 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.

Yours very truly,

S. D. Blossom RA

DSR/ct

AMS



Amoco Production Company

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

S. D. Blossom
District Manager

May 29, 1984

Union Texas Petroleum Corp.
P. O. Box 1290
Farmington, NM 87499

File: TKA-185-400.1

Dear Sirs:

Commingling Application for L.C. Kelly No. 4E
Section D3, T30N, R12W, San Juan County, New Mexico

Amoco Production Company has applied for approval to commingle the Gallup and Dakota 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.

Yours very truly,

S. D. Blossom
TRA

DSR/ct



Amoco Production Company

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

S. D. Blossom
District Manager

May 29, 1984

Beta Development Co.
125 Petroleum Club Plaza
Farmington, NM 87401

File: TKA-184-400.1

Dear Sirs:

Commingling Application for L.C. Kelly No. 4E
Section D3, T30N, R12W, San Juan County, New Mexico

Amoco Production Company has applied for approval to commingle the Gallup and Dakota 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.

Yours very truly,

S. D. Blossom _{TRH}

DSR/ct

AM8



Amoco Production Company

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

S. D. Blossom
District Manager

May 29, 1984

Consolidated Oil and Gas
P. O. Box 2038
Farmington, NM 87499

File: TKA-187-400.1

Dear Sirs:

Commingling Application for L.C. Kelly No. 4E
Section D3, T30N, R12W, San Juan County, New Mexico

Amoco Production Company has applied for approval to commingle the Gallup and Dakota 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.

Yours very truly,

S.D. Blossom
T/11

DSR/ct



Amoco Production Company

Petroleum Center Building
601 Airport Drive
Farmington, New Mexico 87401
505-325-9841

S. D. Blossom
District Manager

May 29, 1984

Tenneco Oil Company
P. O. Box 3249
Englewood, CO 80155

File: TKA-186-400.1

Dear Sirs:

Commingling Application for L.C. Kelly No. 4E
Section D3, T30N, R12W, San Juan County, New Mexico

Amoco Production Company has applied for approval to commingle the Gallup and Dakota 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.

Yours very truly,

S. D. Blossom TRH

DSR/ct

AM8

R12W

33 Thompson #5 (Southland) Thompson #12 (Southland)	34 Thompson #11 (Southland) Thompson #7 (Southland)	35 Federal #1 (Beta Dev.) (Union-Tex)
4 L.C. Kelly #3 #3E L.C. Kelly #4E	3 L.C. Kelly #3 L.C. Kelly #4	2 Clayton #1 Clayton #1E (Consolidated) (Consolidated) (Oil + Gas) (Oil + Gas)
9 Mckenzie #1 (Tanner)	10	11 Chisman Gas Co #1E

T 31 N

T 30 N

● AMOCO OPERATED

● OUTSIDE OPERATED

OIL CONSERVATION DIVISION

P. O. BOX 2088

NEW MEXICO
MINERALS DEPARTMENT

SANTA FE, NEW MEXICO 87501

Form C-107
Revised 10-1-78

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

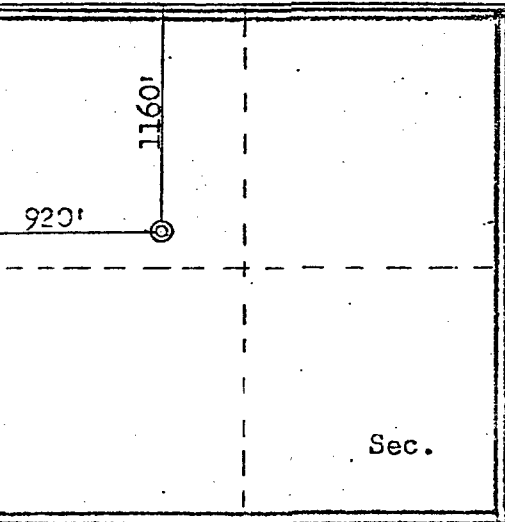
Lessor AMOCO PRODUCTION COMPANY			Lease L. C. KELLY		Well No. 4E
Unit Letter D	Section 3	Township 30N	Range 12W	County San Juan	
Actual Footage Location of Well: 1160 feet from the North line and 920 feet from the West line					
Ground Level Elev: 5939	Producing Formation Dakota /Gallup		Pool Basin Dakota /Flora Vista Gallup		Dedicated Acreage: 320/160 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.

	3

CERTIFICATION

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

Original Signed By

Name

Darrell D. Lawson

Position

District Admin. Super.

Company

Amoco Production Co.

Date

10-4-83

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

September 2, 1983

Registered Professional Engineer
and Land Surveyor

Fred B. Kerr Jr.

Certificate No. 10,000

Operator	Pool	County	Quantity
Amoco Production Company	Basin Dakota-Flora Vista Gallup	San Juan	
Adrian	501 Airport Drive, Farmington, NM 87401		
		Subtotal	100.00
		Total	100.00

All original and one copy of this report to the District Office of the New Mexico Oil Conservation Division in accordance with Rule 30) and appropriate pool rules.

(Title)
May 25, 1984

WELL NAME LCKELLY 4-1F DATE 5-8-84

SHUT-IN TUBING 1060 SHUT-IN CASING 1080

PRESSURE RANGE OF ELEMENT 0-2500

BHP 1306

COMMENTS Bump For Co-Mingling

PRESSURE

0

.833

1052

6100

110341

1304

WELL NAME Lc KELLY 4-E DATE 4-4-84

SHUT-IN TUBING 1620 SHUT-IN CASING 836

TYPE OF INSTRUMENT USED AMERAGA RPG-3

PRESSURE RANGE OF ELEMENT 0-3000

DATE ELEMENT CALIBRATED _____

BHP 2231

SI DATE 3-28-84

COMMENTS BOMB PRIOR TO POT TEST

[illegible]

0725100

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

CHROMATOGRAPHIC GAS ANALYSIS REPORTS

ARCO PRODUCTION CO.
 ATTN: R. A. CONNER
 501 AIRPORT DRIVE
 FARMINGTON, N. M. 87411

ANAL DATE 06 22 82

METER STATION NAME
 L O KELLY CIRCLE #5 GL

METER STA 75074
 OPER 0203

TYPE CODE	SAMPLE DATE	EFF. DATE	USE NOS.	SCALE	HZS GRAINS	LOCATION
00	06 21 82	06 24 82	06			4 F (4)

	NORMAL MOLE%	GPM
C 2	1.11	.000
n 2 S	.00	.000
Ne	.37	.000
MEthane	73.40	.000
ETANE	14.30	3.822
PROPANE	6.60	1.816
ISOBUTANE	.85	.275
NORM-BUTANE	1.34	.580
ISOPENTANE	.54	.198
NORM-PENTANE	.49	.177
HEAVY PLUS	.50	.218

TOTALS

100.00

7.089

SPECIFIC GRAVITY

.775

MIXTURE HEATING VALUE

(BTU/GAL AT 14.73 PSIA, 60 DEGREES, DRY) 1,325

RATIO OF SPECIFIC HEAT

1.269

10/25/82

EL PASO NATURAL GAS COMPANY
 MEASUREMENT DEPARTMENT
 PLST OFFICE BLDG 1492
 EL PASO, TEXAS 79999

CHROMATOGRAPHIC GAS ANALYSIS REPORTS

ARCO PRODUCTION CO.
 ATTN: R. A. CUNNER
 501 AIRPORT DRIVE
 FARMINGTON, N. M. 87411

ANAL DATE 06 22 82

METER STATION NAME
 L O KELLY CMGLD #5 DK

METER STA 75075
 OPER 0203

TYPE CODE	SAMPLE DATE	EFF. DATE	USE MOS.	SCALE	H2S GRAINS	LOCATION
00	06 21 82	06 24 82	06			4 F 04

	NORMAL MOLS	GPM
C C 2	1.11	.000
n 2 S	.00	.000
N2	.37	.000
METHANE	73.40	.000
ETHANE	14.30	3.822
PROPANE	6.60	1.816
ISOBUTANE	.35	.278
NORM-BUTANE	1.84	.580
ISOPENTANE	.54	.198
NORM-PIRTANE	.49	.177
HEXANE PLUS	.50	.218

TOTALS	100.00	7.089
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SPECIFIC GRAVITY	.775
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MIXTURE HEATING VALUE (BTU/GAL AT 14.73 PSIA, 60 DEGREES, DRY)	1,325
---	-------

RATIO OF SPECIFIC HEATS	1.269
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PERCENTAGE FREE H2S CONTENT	
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12/18/81

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

CHROMATOGRAPHIC GAS ANALYSIS REPORTS

AMOCG PRODUCTION CO.
ATTN: D. N. THURSTON
501 AIRPORT DRIVE
FARMINGTON, NM 87401

ANAL DATE 12 10 81

METER STATION NAME
L C KELLY CMGLD #3 GL

METER STA 75963
OPER 0203

TYPE CODE	SAMPLE DATE	EFF. DATE	USE MOS.	SCALE	H2S GRAINS	LOCATIO.
00	12 09 81	12 14 81	06			4 F 01

	NORMAL MOL%	GPM
C D 2	1.50	.000
H 2 S	.00	.000
N2	.56	.000
METHANE	86.41	.000
ETHANE	5.64	1.775
PROPANE	2.83	.779
ISO-BUTANE	.50	.154
NORM-BUTANE	.74	.233
ISO-PENTANE	.29	.106
NORM-PENTANE	.24	.087
HEXANE PLUS	.29	.127

TOTALS	100.00	3.271
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SPECIFIC GRAVITY .665

MIXTURE HEATING VALUE
(BTU/CF AT 14.73 PSIA, 60 DEGREES, DRY) 1,143

RATIO OF SPECIFIC HEATS 1.290

EL PASO NATURAL GAS COMPANY

WFT-43L 175 CHROMATOGRAPHIC GAS ANALYSIS REPORT

REF. DATE 10 17 80

METER STA 87463

ANAL. DATE 10 13 80

METER STATION NAME

OPER 3203

L C KELLY CMGLD #3 OK

02-196-01

TYPE	CODE	SAMPLE DATE	EFF. DATE	USE MGS.	SCALE	H2S GRAINS	LOCATION
C		06 13 80	06 17 80	06	1	0000*	4 F 04

	NORMAL HGLS	GPM
C C 2	01.05	0.000
H 2 S	01.00*	0.000
N2	00.60	0.000
METHANE	75.47	0.000
ETHANE	11.04	3.111
PROANE	05.08	1.398
ISO-BUTANE	00.65	0.213
NORM-BUTANE	01.42	0.447
IS-PENTANE	00.35	0.139
NORM-PENTANE	00.34	0.123
HEXANE PLUS	00.37	0.162
TOTALS	100.00	5.593

SPECIFIC GRAVITY 0.728

MIXTURE HEATING VALUE
(Btu/Cf @ 14.73 PSIA, 50 DEGREES, DRY) 1247

RATIO OF SPECIFIC HEATS 1.277

A NO TEST SECURED FOR DETERMINATION H2S CONTENT.

Completion History

Dakota

Perforated 6780-6804 & 6822-6842.

Frac w/26,000 gal 40 lb gel and 41,000 gal 20 lb gel containing 1 gal/1000 surfactant, 2% KCL and 86,000 lbs 20-40 sand.

Gallup

Perforated 5865-6136 with 1 jsp2f. Frac w/14,000 gal 40 lb gel and 49,966 gal 20 lb gel containing 1 gal/1000 surfactant, 2% KCL and 71,938 lbs 20-40 sand. Frac sanded off. Refractured w/33,000 gal 30 lb gel containing 1 gal/1000 surfactant, 2% KCL and 52,000 lbs 20-40 sand.

Recommended Allocation Formula

Amoco Production Company recommends the following percentages be used to allocate hydrocarbons to the Gallup and Dakota horizons in the L. C. Kelly No. 4E:

	<u>Gas</u>	<u>Condensate</u>
Gallup	25.1%	82.8%
Dakota	74.9%	17.2%

Note: The gas allocation percentages were calculated using initial potential test results. The oil allocation percentages were based on averages of allocation factors of the L. C. Kelly No. 3 and L. C. Kelly No. 5.



Amoco Production Company

Refinery Center Building
501 Airport Drive
Farmington, New Mexico 87401
505-325-6841

S. D. Blossom
District Manager

May 29, 1984

Southland Royalty
410 17th St. No. 1000
Denver, CO 80202

File: TKA-183-400.1

Dear Sirs:

Commingle Application for L.C. Kelly No. 4E
Section D3, T30N, R12W, San Juan County, New Mexico

Amoco Production Company has applied for approval to commingle the Gallup and Dakota 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.

Yours very truly,

S. D. Blossom RA

DSR/ct

AMS



Amoco Production Company

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

S. D. Blossom
District Manager

May 29, 1984

Beta Development Co.
125 Petroleum Club Plaza
Farmington, NM 87401

File: TKA-184-400.1

Dear Sirs:

Commingling Application for L.C. Kelly No. 4E
Section D3, T30N, R12W, San Juan County, New Mexico

Amoco Production Company has applied for approval to commingle the Gallup and Dakota 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.

Yours very truly,

S. D. Blossom _{TEA}

DSR/ct

AM8



Amoco Production Company

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

S. D. Blossom
District Manager

May 29, 1984

Union Texas Petroleum Corp.
P. O. Box 1290
Farmington, NM 87499

File: TKA-185-400.1

Dear Sirs:

Commingling Application for L.C. Kelly No. 4E
Section D3, T30N, R12W, San Juan County, New Mexico

Amoco Production Company has applied for approval to commingle the Gallup and Dakota 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.

Yours very truly,

S. D. Blossom
TKA

DSR/ct



Amoco Production Company

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

S. D. Blossom
District Manager
May 29, 1984

Consolidated Oil and Gas
P. O. Box 2038
Farmington, NM 87499

File: TKA-187-400.1

Dear Sirs:

Commingling Application for L.C. Kelly No. 4E
Section D3, T30N, R12W, San Juan County, New Mexico

Amoco Production Company has applied for approval to commingle the Gallup and Dakota 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.

Yours very truly,

S.D. Blossom
TAP

DSR/ct

AM8



Amoco Production Company

Petroleum Center Building
501 Airport Drive
Farmington, New Mexico 87401
505-325-9841

S. D. Blossom
District Manager

May 29, 1984

Tenneco Oil Company
P. O. Box 3249
Englewood, CO 80155

File: TKA-186-400.1

Dear Sirs:

Commingling Application for L.C. Kelly No. 4E
Section D3, T30N, R12W, San Juan County, New Mexico

Amoco Production Company has applied for approval to commingle the Gallup and Dakota 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.

Yours very truly,

S. D. Blossom TRH

DSR/ct

AM8



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

June 4, 1984

RE:

Proposed MC

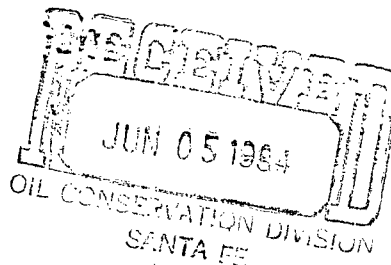
Proposed DHC α

Proposed NSL

Proposed SWD

Proposed WFX

Proposed PMX



Gentlemen:

I have examined the application dated

May 31, 1984

for the

Amoco Prod Co.

Operator

L.C. Kelly #4E

Lease and Well No.

D-3-30A-12W

Unit, S-T-R

and my recommendations are as follows:

Approve

Yours truly,

Frank D. [Signature]