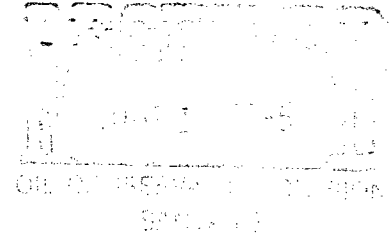


NORTHWEST PIPELINE CORPORATION
ONE OF THE WILLIAMS COMPANIES

P.O. BOX 1526
SALT LAKE CITY, UTAH 84110-1526
801-583-8800



5140-218-84/26720

#417

December 27, 1984

JAN 14 1985

RECEIVED

Re: San Juan 30-5 Unit #14-08-001-346
Rio Arriba County, New Mexico
THIRD EXPANDED PARTICIPATING AREA
Pictured Cliffs Formation
Effective November 1, 1982

Assistant Area Oil and Gas Supervisor
Bureau of Land Management
Western National Bank Building
505 Marquette NW, Suite 815
Albuquerque, NM 87102

State of New Mexico
Commissioner of Public Lands
Attention: Mr. Ray D. Graham
P. O. Box 1148
Santa Fe, NM 87501

State of New Mexico
Oil Conservation Commission
Attention: Mr. Richard L. Stamets
P. O. Box 2088
Santa Fe, NM 87501

Gentlemen:

Please substitute the enclosed well data on the San Juan 30-5 Unit #84 Pictured Cliffs Formation for the Mesaverde Formation data that was sent to you in our letter dated December 19, 1984.

The well data is as follows:

The San Juan 30-5 Unit #84 Well is located 1840 feet from the south line and 1730 feet from the east line, Section 33, Township 30 North, Range 5 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spudded on August 28, 1982. The Pictured Cliffs Formation was completed on October 4, 1982, with a dual completion in the Mesaverde Formation. The Pictured Cliffs Formation was perforated with 12 holes at the following depths:

3484', 3488', 3492', 3496', 3500', 3646'
3654', 3662', 3670', 3678', 3684', 3690'

Assistant Area Oil and Gas Supervisor
Commissioner of Public Lands
Oil Conservation Commission
Page 2
December 27, 1984

These perforations were treated with 67,470 gallons pad water followed by 44,000 pounds of 10/20 sand. The well was tested on October 28, 1982, using a positive choke in a three hour test. The well was tested at a 1473 MCFD flow rate with a calculated AOF of 2496 MCFD. The ISIP was measured at 1166 psig.

Copies of the letter are being mailed to the Working Interest Owners shown on the attached sheet.

Very truly yours,


Darrell L. Gillen
Proration/Land

jawc
Attachments

cc: Working Interest Owners

SAN JUAN 30-5
WORKING INTEREST OWNERS

AMOCO PRODUCTION COMPANY
Attn: J. C. Burnside
1670 Broadway - Suite 1914
Amoco Building
Denver, CO 80202

PHILLIPS OIL COMPANY
Attn: T. C. Doughty
8055 E. Tufts Avenue Parkway
Denver, CO 80237

PHILLIPS PETROLEUM COMPANY
Attn: T. C. Doughty
8055 E. Tufts Avenue Parkway
Denver, CO 80237

EL PASO EXPLORATION COMPANY
Attn: Land Department
P. O. Box 4289
Farmington, NM 87499-4289

GETTY OIL COMPANY
Attn: Mr. T. L. Ditmore
Three Park Central - Suite 700
Denver, CO 80202

Larry H. Williams
ARAPAHOE DRILLING COMPANY
200 Lomas, NW - Suite 440
Albuquerque, NM 87102

Lt. Col. Langdon Dewey Harrison,
Trustee for Mrs. Omega E. Quinn
7517 Tamarcon Place, N.E.
Albuquerque, NM 87109



United States Department of the Interior

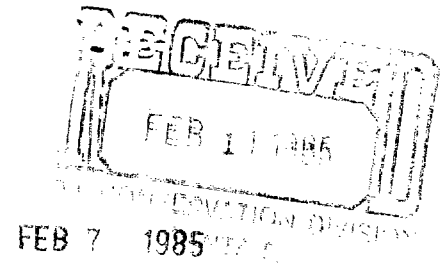
IN REPLY REFER TO:

SJ 30-5 (015)

BUREAU OF LAND MANAGEMENT ALBUQUERQUE DISTRICT OFFICE

505 Marquette, N.W.
P.O. Box 6770
Albuquerque, New Mexico 87197-6770

#417



Northwest Pipeline Corporation
Attention: Darrel L. Gillen
P.O. Box 1526
Salt Lake City, Utah 84110-1526

Gentlemen:

Two copies are enclosed of the Third Revision to the Pictured Cliffs
Participating Area, San Juan 30-5 Unit, Rio Arriba County, New Mexico. The
Third Revision is hereby accepted for record on this date and is effective
as of November 1, 1982.

Sincerely yours,

(ORIG. SGD.) GARY A. STEPHENS

For District Manager

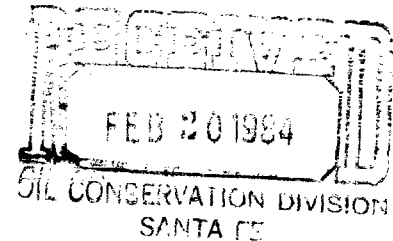
Enclosures

cc:
NMOCD

Comm. of Public Lands
Micrographics 943B-4(w/enc.)
Fluid Section FRAH-016
File: San Juan 30-5 (PC PA)
O&G Chron

015:KSaylesMcAda:tt:2/6/85:0444M

417
FEB 16 1984



Northwest Pipeline
Attention: Ms. Kathy Michael
1125 Seventeenth Street, Suite 2140
Denver, Colorado 80202

Gentlemen:

Your application of June 17, 1983, requesting approval of the third through sixth revision of the Dakota Participating Area for the San Juan 30-5 Unit Agreement, San Juan and Rio Arriba Counties, New Mexico, No. 14-08-001-346, was approved on this date.

The third revision is the participating area adds 320.00 acres described as E/2 Section 20, T. 30 N., R. 5 W., NMPM, Rio Arriba County, New Mexico. The third revision is based on the completion of well No. 48 and is effective January 1, 1980.

The fourth revision to the participating area adds 2,880.00 acres described as E/2 Section 8, all sections 9 and 16, E/2 Section 17, all Section 21, W/2 Section 22, all in T. 30 N., R. 5 W., NMPM, Rio Arriba County, New Mexico. The fourth revision is based on the completion of wells Nos. 49, 51, 53, 70 and 71 is effective December 1, 1980.

The fifth revision to the participating area adds 1,280.00 acres described as S/2 Section 6, N/2 Section 10, all Section 15, all in T. 30 N., R. 5 W., NMPM, Rio Arriba County, New Mexico. The fifth revision is based on the completion of wells Nos. 50, 52, and 73 is effective March 1, 1981.

The sixth revision to the participating area adds 320.00 acres described as S/2 Section 10, T. 30 N., R. 5 W., NMPM, Rio Arriba County, New Mexico. The sixth revision is based on the completion of well No. 72 and is effective April 1, 1981.

The Notice of Completion of an additional well for the San Juan 30-5 Unit No. 38 well completed in the NE/4 Section 18, T. 30 N., R. 5 W., NMPM, San Juan County, New Mexico, is accepted for record. Since this well was completed in the existing Dakota Participating Area, the participating area is not enlarged by virtue of this well.

Copies of the approved application are being distributed to the appropriate Federal offices, and an approved copy is returned herewith. You are requested to furnish all other interested parties with appropriate evidence of this approval.

Sincerely yours,

(ORIG. SGD.) JAMES W. SHELTON

For District Manager

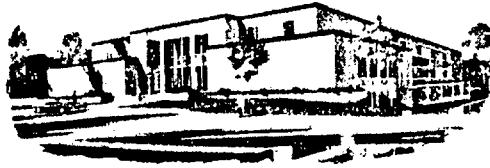
cc:
NMOCD
Comm. of Public Lands
FRAH (Fluids) (w/encl.)
AOD-PAB-LAC, Denver (w/schedules)
File: San Juan 30-5 (Dakota PA)
O&G Chrono

015:RKent:ir:02/13/84:00528

State of New Mexico



JIM BACA
COMMISSIONER



Commissioner of Public Lands

February 23, 1984

Northwest Pipeline Corporation
1125 Seventeenth Street, Suite 2140
Denver, Colorado 80202

P.O. BOX 1148
SANTA FE, NEW MEXICO 87504-1148
Express Mail Delivery Used
310 Old Santa Fe Trail
Santa Fe, New Mexico 87501

Re: San Juan 30-5 Unit, Application for
Approval of the 3rd, 4th, 5th, 6th
Expanded Participating Areas and
Notice of Completion of Additional
Well, Dakota Formation
Rio Arriba County, New Mexico

ATTENTION: Ms. Kathy Michael

Gentlemen:

The Commissioner of Public Lands has this date approved your application for approval of the third through the sixth Expanded Participating Areas of the Dakota formation for the San Juan 30-5 Unit Agreement, San Juan and Rio Arriba Counties, New Mexico. These revisions of the Participating Area for the Dakota Formation are predicated upon the determination by Northwest Pipeline Corporation, as Unit Operator, that the following San Juan 30-5 Unit Dakota Wells, which were completed outside the limits of the existing Dakota Participating Area, are capable of producing unitized substances in paying quantities from the Dakota Formation.

The third revision adds 320.00 acres described as the E/2 of Section 20, Township 30 North, Range 5 West. The third revision is predicated upon the completion of the unit well no. 48 and is effective January 1, 1980.

The fourth revision adds 2,880.00 acres described as the E/2 Section 8, All Sections 9 and 16, E/2 Section 17, All Section 21, W/2 Section 22, all in Township 30 North, Range 5 West. The fourth revision is predicated upon the completion of the unit well nos. 49, 51, 53, 70 and 71 and is effective December 1, 1980.

the fifth revision adds 1,280.00 acres described as the S/2 of Section 6, N/2 Section 10, all Section 15 all in Township 30 North Range 5 West. The fifth revision is predicated upon the completion of the well nos. 50, 52, and 73 effective as of March 1, 1981.

Northwest Pipeline Corporation
February 23, 1984
Page 2

The sixth revision adds 320.00 acres described as the S/2 of Section 10, Township 30 North, Range 5 West. The sixth revision is predicated upon the completion of the well no. 72 and is effective as of April 1, 1981.

This office has also accepted your Notice of Completion of an additional well. Your notice states that the San Juan 30-5 Unit Well No. 38 has been completed within the existing Dakota Participating Area, and the participating area is not enlarged by virtue of this well and the percentage of participation remains the same.

Very truly yours,

JIM BACA
COMMISSIONER OF PUBLIC LANDS

BY:
RAY D. GRAHAM, Director
Oil and Gas Division
AC 505/827-5744

JB/RDG/pm
encls.

cc: OCD-Santa Fe, New Mexico
 BLM-Albuquerque, New Mexico
 BLM-Roswell, New Mexico

417

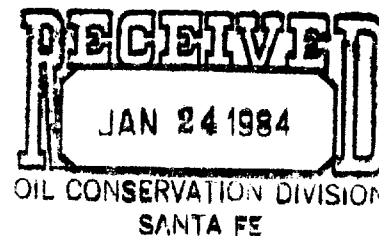
NORTHWEST PIPELINE CORPORATION

LAND DEPARTMENT

1125 Seventeenth Street, Suite 2140
Denver, Colorado 80202
303-292-4906

January 20, 1984

Assistant Area Oil and Gas Supervisor
Bureau of Land Management
Attn: Fluids Branch
P. O. Box 6770
Albuquerque, NM 87107



State of New Mexico
Commissioner of Public Lands
Attn: Mr. Ray D. Graham
P. O. Box 1148
Santa Fe, New Mexico 87501

State of New Mexico
Oil Conservation Commission
Attn: Mr. Joe Ramey
P. O. Box 2088
Santa Fe, New Mexico 87501

Re: San Juan 30-5 Unit #14-08-001-436
Rio Arriba County, New Mexico

Dear Sir:

We were requested by James Shelton of the Minerals Management Service to review production statistics for the wells below and provide you with the information used in determining commerciality of these properties.

San Juan 30-5 Unit #48 DK	-	3rd Expansion
San Juan 30-5 Unit #50 DK	-	5th Expansion
San Juan 30-5 Unit #51 DK	-	4th Expansion
San Juan 30-5 Unit #52 DK	-	5th Expansion
San Juan 30-5 Unit #53 DK	-	4th Expansion
San Juan 30-5 Unit #70 DK	-	4th Expansion
San Juan 30-5 Unit #71 DK	-	4th Expansion
San Juan 30-5 Unit #72 DK	-	6th Expansion
San Juan 30-5 Unit #73 DK	-	5th Expansion

After the economic evaluations were reviewed by our Reserves Department, it has been determined that the status of these wells remains the same as previously determined. We have enclosed the economic data for your inspection.

Bureau of Land Management
Commissioner of Public Lands
Oil Conservation Commission
January 20, 1984
Page Two

If the Third, Fourth, Fifth, and Sixth Expanded Participating Areas of the Dakota Formation now meet with your approval, please indicate such approval in the space provided on the signature page of our letter dated June 17, 1983 and return an approved copy for our files.

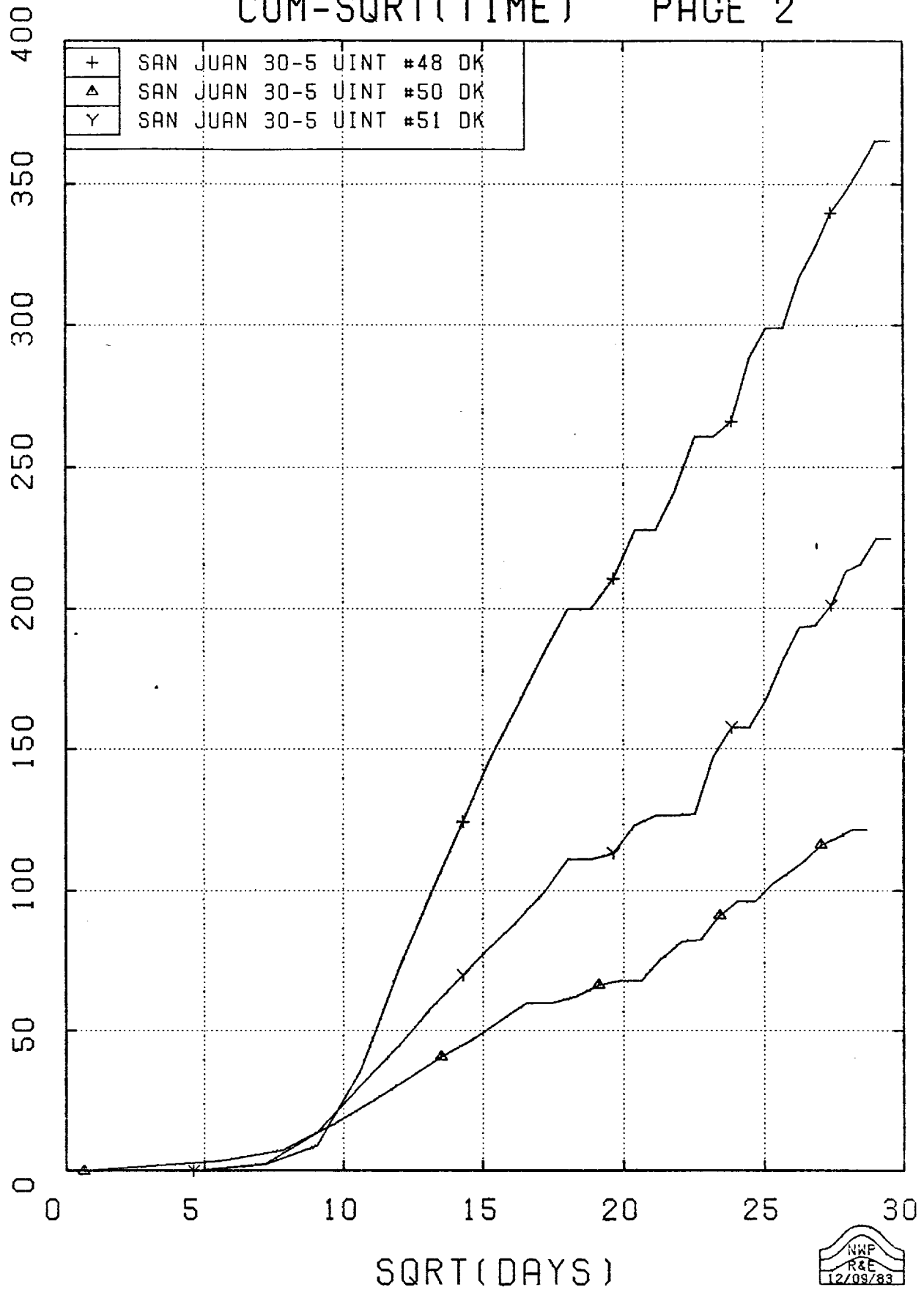
Very truly yours,

A handwritten signature in cursive script that reads "Kathy Michael".

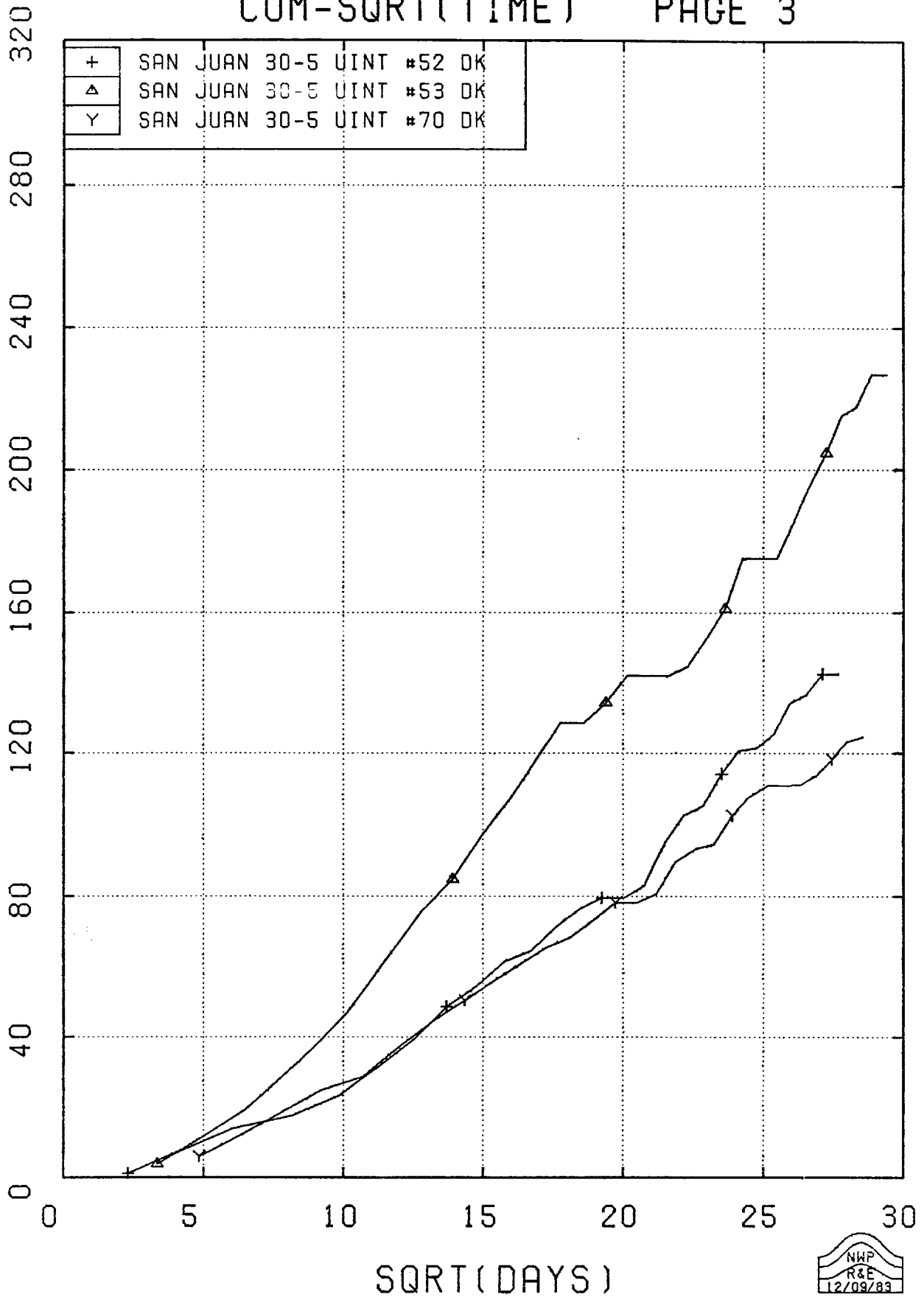
Kathy Michael
Supervisor/Land Department

KM:CS/st
Enclosure

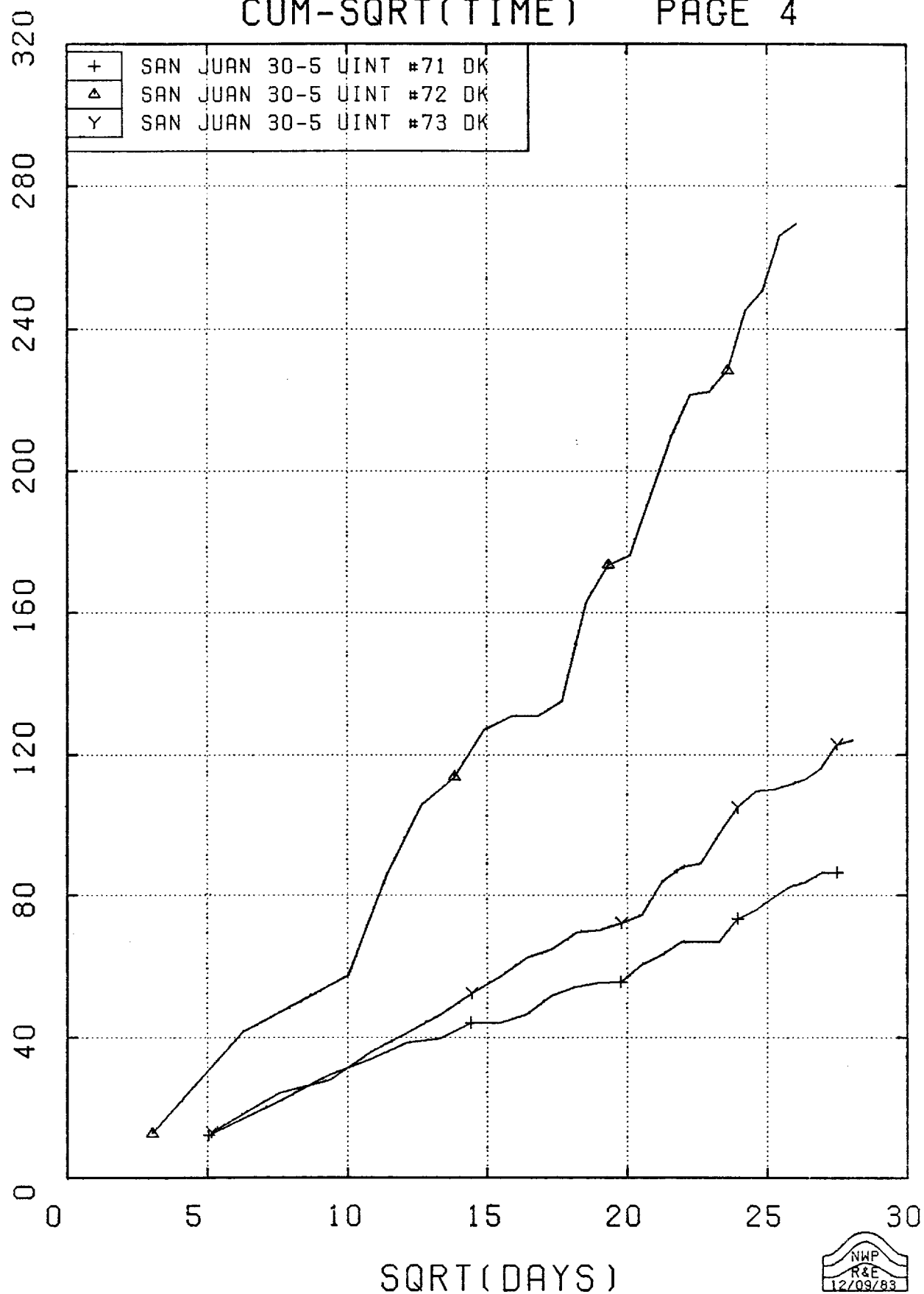
MMCF @ 14.73 PSIA



MMCF @ 14.73 PSIA



MMCF @ 14.73 PSIA



NORTHWEST PIPELINE CORPORATION
GAS RESERVES DEPARTMENT ECONOMIC STUDY
COMMERCIALITY OF SAN JUAN 30-5 ±48 DK

12-07-83

WORKING INT. B/PAYOUT.....Z 100.0 ANNUAL COST INFLATION.....Z 0.0
WORKING INT. A/PAYOUT.....Z 100.0 ANNUAL PRICE INFLATION.....Z 0.0
INCOME TAX.....Z 48.0 NEG INC TAX USED AS FUTURE CREDIT
UNIT OF PRODUCTION DEPRECIATION

GAS PRODUCTION FROM SAN JUAN 30-5 ±48 DK
LAND OWNER ROYALTY.....Z 12.5 OVERRIDING ROYALTY.....Z 0.0
AD VALOREM AND SEV TAXES.....Z 7.5 OPERATING COSTS (\$/MO).....Z 500.0
MONTH OF CAPITAL EXPENSE.....1 OPERATING COSTS (% OF PROD).....Z 0.0
DRILLING COSTS (\$1000).....314.4 TANGIBLE \$ (% OF DRILLING \$) 34.8
SALVAGE VALUE (\$1000).....0.0

INITIAL MONTH	MCF/D	DECLINE Z	TO MCF/D	ENDING MONTH
6	150.0	-20437.9	885.0	10
10	885.0	78.9	527.0	14
14	527.0	44.1	434.0	18
18	434.0	28.6	310.0	30
30	310.0	18.1	254.0	42
42	254.0	13.4	220.0	54
54	220.0	6.1	80.0	246
246	80.0	100.0	0.0	247

YEAR	PRICE \$/ MCF	AVG MCF/D	ANNUAL MCF	ROYALTY MCF	REVENUE AFTER ROYALTY \$1000
1	4.44	305	111442.	13930.	433.
2	4.44	447	163147.	20393.	634.
3	4.44	313	114233.	14279.	444.
4	4.44	254	92864.	11608.	361.
5	4.44	221	80852.	10106.	314.
6	4.44	206	75246.	9406.	292.
7	4.44	193	70636.	8829.	274.
8	4.44	182	66308.	8288.	258.
9	4.44	170	62245.	7781.	242.
10	4.44	160	58432.	7304.	227.
11	4.44	150	54852.	6856.	213.
12	4.44	141	51491.	6436.	200.
13	4.44	132	48336.	6042.	188.
14	4.44	124	45375.	5672.	176.
15	4.44	117	42595.	5324.	165.
16	4.44	109	39985.	4998.	155.
17	4.44	103	37535.	4692.	146.
18	4.44	96	35236.	4404.	137.
19	4.44	91	33077.	4135.	129.
20	4.44	85	31050.	3881.	121.
TOTAL			1314093.	164361.	5108.

12-07-83

ANNUAL COST INFLATION.....%	0.0
ANNUAL PRICE INFLATION....%	0.0
NEG INC TAX USED AS FUTURE CREDIT	

	UNITED PROFIT TO**	RATE OF RETURN B.T.
	ESTIMATED RATIO***	RATE OF RETURN A.T.
TAX	AFTER TAX	
0.60	0.60	0.0
6.55		3.30

[illegible]

PAYOUT DURING MONTH 11 OF YEAR 11

NORTHWEST PIPELINE CORPORATION
GAS RESERVES DEPARTMENT ECONOMIC STUDY
COMMERCIALITY OF SAN JUAN 30-5 #50 DK

12-07-83

WORKING INT. B/PAYOUT.....% 100.0 ANNUAL COST INFLATION.....% 0.0
WORKING INT. A/PAYOUT.....% 100.0 ANNUAL PRICE INFLATION.....% 0.0
INCOME TAX.....% 48.0 NEG INC TAX USED AS FUTURE CREDIT
UNIT OF PRODUCTION DEPRECIATION

GAS PRODUCTION FROM SAN JUAN 30-5 #50 DK
LAND OWNER ROYALTY.....% 12.5 OVERRIDING ROYALTY.....% 0.0
AD VALOREM AND SEV TAXES.....% 7.5 OPERATING COSTS (\$/MO).....% 500.0
MONTH OF CAPITAL EXPENSE.....% 3 OPERATING COSTS (% OF PROD):.....% 0.0
DRILLING COSTS (\$1000)..... 406.4 TANGIBLE \$ (% OF DRILLING \$) 36.0
SALVAGE VALUE (\$1000)..... 0.0

INITIAL MONTH	MCF/D	DECLINE %	TO MCF/D	ENDING MONTH
7	150.0	-445.2	264.0	11
11	264.0	61.5	192.0	15
15	192.0	44.3	158.0	19
19	158.0	28.5	113.0	31
31	113.0	18.6	92.0	43
43	92.0	13.0	80.0	55
55	80.0	6.4	28.0	247
247	28.0	100.0	0.0	248

YEAR	PRICE \$/ MCF	AVG MCF/D	ANNUAL MCF	ROYALTY MCF	REVENUE AFTER ROYALTY \$1000
1	4.48	195	38314.	4789.	150.
2	4.48	169	61881.	7735.	243.
3	4.48	117	42562.	5320.	167.
4	4.48	94	34170.	4271.	134.
5	4.48	81	29633.	3704.	116.
6	4.48	75	27444.	3431.	108.
7	4.48	70	25701.	3213.	101.
8	4.48	66	24069.	3009.	94.
9	4.48	62	22540.	2818.	88.
10	4.48	58	21109.	2639.	83.
11	4.48	54	19768.	2471.	77.
12	4.48	51	18513.	2314.	73.
13	4.48	47	17337.	2167.	68.
14	4.48	44	16236.	2030.	64.
15	4.48	42	15205.	1901.	60.
16	4.48	39	14239.	1780.	56.
17	4.48	37	13335.	1667.	52.
18	4.48	34	12488.	1561.	49.
19	4.48	32	11695.	1462.	46.
20	4.48	30	10952.	1369.	43.
21	4.48	17	6065.	758.	24.
TOTAL.....			483251.	60407.	1894.

12-07-83

DISCOUNT	*****	PRESENT VALUE*****	DISCOUNTED PROFIT TO**	
RATE***	***** \$1000 *****	BEFORE TAX	***INVESTMENT RATIO***	
**** 7 ****	AFTER TAX	AFTER TAX	BEFORE TAX	RATE
**** 44.8 ****	0.	0.	0.00	0.0
	28.2	0.		0.46
	12.0	189.	1.10	
	448.			
				OF RETURN B.I.
				OF RETURN A.I.

PAYOUT DURING MONTH 4 OF YEAR 3

NORTHWEST PIPELINE CORPORATION
GAS RESERVES DEPARTMENT ECONOMIC STUDY
COMMERCIALITY OF SAN JUAN 30-5 #51 DK

12-07-83

WORKING INT. B/PAYOUT.....% 100.0 ANNUAL COST INFLATION.....% 0.0
WORKING INT. A/PAYOUT.....% 100.0 ANNUAL PRICE INFLATION.....% 0.0
INCOME TAX.....% 48.0 NEG INC TAX USED AS FUTURE CREDIT
UNIT OF PRODUCTION DEPRECIATION

GAS PRODUCTION FROM SAN JUAN 30-5 #51 DK
LAND OWNER ROYALTY.....% 12.5 OVERRIDING ROYALTY.....% 0.0
AD VALOREM AND SEV TAXES.....% 7.5 OPERATING COSTS (\$/MO)..... 500.0
MONTH OF CAPITAL EXPENSE..... 11 OPERATING COSTS (% OF PROD)..... 0.0
DRILLING COSTS (\$1000)..... 423.3 TANGIBLE \$ (% OF DRILLING \$) 31.0
SALVAGE VALUE (\$1000)..... 0.0

INITIAL MONTH	MCF/D	DECLINE	%	TO ENDING MCF/D	MONTH
18	200.0	-96.8		440.0	22
22	440.0	57.8		330.0	26
26	330.0	43.4		273.0	30
30	273.0	28.6		195.0	42
42	195.0	17.9		160.0	54
54	160.0	13.8		138.0	66
66	138.0	6.1		50.0	258
258	50.0	100.0		0.0	259

YEAR	PRICE \$/ MCF	AVG MCF/D	ANNUAL MCF	ROYALTY MCF	REVENUE AFTER ROYALTY \$1000
1	4.44	0	0	0	0
2	4.44	194	70981.	8873.	276.
3	4.44	279	101823.	12728.	396.
4	4.44	197	71870.	8984.	279.
5	4.44	160	58454.	7307.	227.
6	4.44	139	50738.	6342.	197.
7	4.44	129	47189.	5899.	183.
8	4.44	121	44287.	5536.	172.
9	4.44	114	41544.	5196.	161.
10	4.44	107	39009.	4876.	152.
11	4.44	100	36611.	4576.	142.
12	4.44	94	34360.	4295.	133.
13	4.44	88	32247.	4031.	125.
14	4.44	83	30265.	3783.	118.
15	4.44	78	28404.	3551.	110.
16	4.44	73	26658.	3332.	104.
17	4.44	68	25019.	3127.	97.
18	4.44	64	23481.	2935.	91.
19	4.44	60	22037.	2755.	86.
20	4.44	57	20682.	2585.	80.
21	4.44	53	19411.	2426.	75.
TOTAL.....			825083.	103132.	3205.

NORTHWEST PIPELINE CORPORATION
GAS RESERVES DEPARTMENT ECONOMIC STUDY
COMMERCIALITY OF SAN JUAN 30-5 #51 DK

12-07-83

WORKING INT. B/PAYOUT.....Z	100.0	ANNUAL COST INFLATION.....Z	0.0
WORKING INT. A/PAYOUT.....Z	100.0	ANNUAL PRICE INFLATION.....Z	0.0
INCOME TAX.....Z	48.0	NEG INC TAX USED AS FUTURE CREDIT	
UNIT OF PRODUCTION DEPRECIATION			

DISCOUNT *****	DISCOUNTED PROFIT TO**
RATE *****	**INVESTMENT RATIO**
*** Z **	BEFORE TAX AFTER TAX
74.5	0.00
47.3	0.0
12.0	932.
	443.
	2.20
	1.05

RATE OF RETURN B.T.
0.0
RATE OF RETURN A.T.
1.05

INCOME **PROJECT EXPENSES IN \$1000*										***CASH FLOW ANALYSIS IN \$1000***									
YEAR	NET*	DEPR.	SEV.	TAXES	PROD.	COSTS	BEFORE TAX	TAXES	BEFORE TAX	BEFORE TAX	TAXES	TAXED INCOME	AFTER TAXES	INCOME	AFTER TAXES	INCOME	AFTER TAXES	INCOME	AFTER TAXES
1	0	423	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	276	0	11	21	4	4	252	-172	240	0	0	252	0	252	0	252	0	252	0
3	396	0	16	30	6	6	360	188	344	140	140	344	140	220	140	220	140	220	140
4	279	0	11	21	6	6	252	440	241	116	116	241	116	137	116	137	116	137	116
5	227	0	9	17	6	6	204	644	195	93	93	195	93	111	93	111	93	111	93
6	197	0	8	15	6	6	176	821	168	81	81	168	81	96	81	96	81	96	81
7	183	0	8	14	6	6	164	984	156	75	75	156	75	89	75	89	75	89	75
8	172	0	7	13	6	6	153	1137	146	70	70	146	70	83	70	83	70	83	70
9	161	0	7	12	6	6	143	1281	137	66	66	137	66	78	66	78	66	78	66
10	152	0	6	11	6	6	134	1415	128	61	61	128	61	73	61	73	61	73	61
11	142	0	6	11	6	6	126	1540	120	57	57	120	57	68	57	68	57	68	57
12	133	0	5	10	6	6	117	1658	112	54	54	112	54	64	54	64	54	64	54
13	125	0	5	9	6	6	110	1768	105	50	50	105	50	60	50	60	50	60	50
14	118	0	5	9	6	6	103	1871	98	47	47	98	47	56	47	56	47	56	47
15	110	0	5	8	6	6	96	1967	92	44	44	92	44	52	44	52	44	52	44
16	104	0	4	8	6	6	90	2056	86	41	41	86	41	49	41	49	41	49	41
17	97	0	4	7	6	6	84	2140	80	38	38	80	38	46	38	46	38	46	38
18	91	0	4	7	6	6	78	2219	75	36	36	75	36	43	36	43	36	43	36
19	86	0	4	6	6	6	73	2292	70	33	33	70	33	40	33	40	33	40	33
20	80	0	3	6	6	6	68	2360	65	31	31	65	31	37	31	37	31	37	31
21	75	0	3	6	6	6	64	2424	61	29	29	61	29	35	29	35	29	35	29
TOTAL	3206	423	131	241	118	118	2424	0	2424	0	2424	1164	1260						

PAYOUT DURING MONTH 6 OF YEAR 3

NORTHWEST PIPELINE CORPORATION
GAS RESERVES DEPARTMENT ECONOMIC STUDY
COMMERCIALITY OF SAN JUAN 30-5 #52 DK

12-07-83

WORKING INT. B/PAYOUT.....Z 100.0 ANNUAL COST INFLATION.....Z 0.0
WORKING INT. A/PAYOUT.....Z 100.0 ANNUAL PRICE INFLATION.....Z 0.0
INCOME TAX.....Z 48.0 NEG INC TAX USED AS FUTURE CREDIT
UNIT OF PRODUCTION DEPRECIATION

DISCOUNT ***** PRESENT VALUE***** DISCOUNTED PROFIT TO**
RATE ***** \$1000 ***** **INVESTMENT RATIO***
*** Z ** BEFORE TAX AFTER TAX BEFORE TAX AFTER TAX RATE OF RETURN B.T.
47.9 0. 0.00 0.0 RATE OF RETURN A.T.
29.9 502. 215. 1.23 0.53
12.0

PROJECT EXPENSES IN \$1000* *CASH FLOW ANALYSIS IN \$1000***									
INCOME	*****	AD.V.	*****	*****	*****	*****	*****	*****	*****
\$1000	***	*****	*****	*****	*****	*****	*****	*****	*****
**NET*	CAP-	SEV	PROD	BEFORE	TAXES	BEFORE	TAXES	BEFORE	TAXES
YEAR	*****	TAL*	DEPR.	TAXES	COSTS	TAXES	INCOME	TAXES	TAXES
1	136	408	10	10	2	-285	-285	-142	0
2	273	0	21	21	6	247	-38	226	40
3	184	0	14	14	6	165	126	150	72
4	146	0	11	11	6	129	255	117	56
5	125	0	10	9	6	109	364	100	48
6	115	0	9	9	6	100	464	91	44
7	107	0	8	8	6	93	557	85	41
8	101	0	8	8	6	87	644	79	38
9	94	0	7	7	6	81	726	74	35
10	88	0	7	7	6	76	801	69	33
11	83	0	6	6	6	71	872	64	31
12	78	0	6	6	6	66	938	60	29
13	73	0	6	6	6	61	999	56	27
14	68	0	5	5	6	57	1056	52	25
15	64	0	5	5	6	53	1109	48	23
16	60	0	5	4	6	49	1158	45	21
17	56	0	4	4	6	46	1204	41	20
18	52	0	4	4	6	43	1246	38	18
19	49	0	4	4	6	39	1286	36	17
20	46	0	4	3	6	37	1322	33	16
TOTAL	1997	409	154	150	116	1322	0	1322	635
									687

PAYOUT DURING MONTH 3 OF YEAR 3

NORTHWEST PIPELINE CORPORATION
GAS RESERVES DEPARTMENT ECONOMIC STUDY
COMMERCIALITY OF SAN JUAN 30-5 #52 DK

12-07-83

WORKING INT. B/PAYOUT.....Z	100.0	ANNUAL COST INFLATION.....Z	0.0
WORKING INT. A/PAYOUT.....Z	100.0	ANNUAL PRICE INFLATION.....Z	0.0
INCOME TAX.....Z	48.0	NEG INC TAX USED AS FUTURE CREDIT	
UNIT OF PRODUCTION DEPRECIATION			

GAS PRODUCTION FROM SAN JUAN 30-5 #52 DK

LAND OWNER ROYALTY.....Z	12.5	OVERRIDING ROYALTY.....Z	0.0
AD VALOREM AND SEV TAXES.....Z	7.5	OPERATING COSTS (\$/MO).....	500.0
MONTH OF CAPITAL EXPENSE.....	3	OPERATING COSTS (% OF PROD).....	0.0
DRILLING COSTS (\$1000).....	408.5	TANGIBLE \$ (% OF DRILLING \$)	37.6
SALVAGE VALUE (\$1000).....	0.0		

INITIAL MONTH	MCF/D	DECLINE	Z	TO ENDING MCF/D	MONTH
9	300.0	31.1		265.0	13
13	285.0	63.1		190.0	17
17	198.0	30.9		168.0	21
21	168.0	28.6		120.0	33
33	120.0	18.3		98.0	45
45	98.0	13.3		85.0	57
57	85.0	6.3		30.0	249
249	30.0	100.0		0.0	250

YEAR	PRICE \$/ MCF	AVG MCF/D	ANNUAL MCF	ROYALTY MCF	REVENUE AFTER ROYALTY \$1000
1	4.44	96	34886.	4361.	136.
2	4.44	193	70326.	8791.	273.
3	4.44	130	47465.	5933.	184.
4	4.44	103	37487.	4686.	146.
5	4.44	88	32105.	4013.	125.
6	4.44	81	29492.	3687.	115.
7	4.44	76	27634.	3454.	107.
8	4.44	71	25892.	3237.	101.
9	4.44	66	24260.	3033.	94.
10	4.44	62	22732.	2841.	88.
11	4.44	58	21299.	2662.	83.
12	4.44	55	19957.	2495.	78.
13	4.44	51	18699.	2337.	73.
14	4.44	48	17521.	2190.	68.
15	4.44	45	16417.	2052.	64.
16	4.44	42	15382.	1923.	60.
17	4.44	39	14413.	1802.	56.
18	4.44	37	13505.	1688.	52.
19	4.44	35	12654.	1582.	49.
20	4.44	32	11856.	1482.	46.
TOTAL.....			513975.	64247.	1997.

12-07-83

WORKING INT. B/PAYOUT.....%	100.0	ANNUAL COST INFLATION.....%	0.0
WORKING INT. A/PAYOUT.....%	100.0	ANNUAL PRICE INFLATION....%	0.0
INCOME TAX.....%	48.0	NEG INC TAX USED AS FUTURE CREDIT	
UNIT OF PRODUCTION DEPRECIATION			

DISCOUNT	***PRESENT VALUE*****	DISCOUNTED PROFIT TO**
RATE	***** \$1000 *****	**INVESTMENT RATIO**
*** % ***	BEFORE TAX AFTER TAX	BEFORE TAX AFTER TAX
83.7	0.	0.00
52.2	0.	0.0
12.0	419.	2.25
	875.	1.98
		RATE OF RETURN B.T.
		RATE OF RETURN A.T.

YEAR	**PROJECT EXPENSES IN \$1000*			***CASH FLOW ANALYSIS IN \$1000***			
	INCOME *\$1000	***** CAPIT- *TAL*	***** DEPR.	***** ADV. *V.	***** BEFORE *TAXES	***** TAXED *INCOME	***** AFTER *TAXES
1	0	388	0	0	-388	-269	-388
2	320	0	13	24	293	280	288
3	353	0	14	26	320	306	173
4	248	0	10	19	223	213	121
5	202	0	8	15	181	172	98
6	176	0	7	13	156	149	72
7	104	0	7	12	145	139	72
8	154	0	6	12	136	130	74
9	144	0	6	11	127	122	69
10	135	0	5	10	119	114	65
11	127	0	5	10	112	106	60
12	119	0	5	9	104	100	57
13	112	0	5	8	98	93	53
14	105	0	4	8	91	87	50
15	99	0	4	7	85	81	46
16	93	0	4	7	80	76	43
17	87	0	4	7	75	71	41
18	82	0	3	6	70	66	38
19	77	0	3	6	65	62	35
20	72	0	3	5	61	58	33
21	68	0	3	5	57	54	31
TOTAL	2937	388	119	220	2210	2210	1149

PAYOUT DURING MONTH 3 OF YEAR 3

NORTHWEST PIPELINE CORPORATION
GAS RESERVES DEPARTMENT ECONOMIC STUDY
COMMERCIALITY OF SAN JUAN 30-5 #53 DK

12-07-83

WORKING INT. B/PAYOUT.....%	100.0	ANNUAL COST INFLATION.....%	0.0
WORKING INT. A/PAYOUT.....%	100.0	ANNUAL PRICE INFLATION.....%	0.0
INCOME TAX.....%	48.0	NEG INC TAX USED AS FUTURE CREDIT	
UNIT OF PRODUCTION DEPRECIATION			

GAS PRODUCTION FROM SAN JUAN 30-5 #53 DK			
LAND OWNER ROYALTY.....%	12.5	OVERRIDING ROYALTY.....%	0.0
AD VALOREM AND SEV TAXES.....%	7.5	OPERATING COSTS (\$/MO).....%	500.0
MONTH OF CAPITAL EXPENSE.....	11	OPERATING COSTS (% OF PROD).....%	0.0
DRILLING COSTS (\$/1000).....	387.9	TANGIBLE \$ (% OF DRILLING \$)	30.6
SALVAGE VALUE (\$/1000).....	0.0		

INITIAL MONTH	MCF/D	DECLINE %	TO ENDING MCF/D	MONTH
18	390.0	-12.0	405.0	22
22	405.0	61.4	295.0	26
26	295.0	44.1	243.0	30
30	243.0	28.8	173.0	42
42	173.0	17.9	142.0	54
54	142.0	13.4	123.0	66
66	123.0	6.1	45.0	258
258	45.0	100.0	0.0	259

YEAR	PRICE \$/ MCF	AVG MCF/D	ANNUAL MCF	ROYALTY MCF	REVENUE AFTER ROYALTY \$1000
1	4.44	0	0	0	0
2	4.44	226	82398.	10300.	320.
3	4.44	249	90800.	11350.	353.
4	4.44	175	63789.	7974.	248.
5	4.44	142	51986.	6488.	202.
6	4.44	124	45286.	5651.	176.
7	4.44	115	42086.	5261.	164.
8	4.44	108	39522.	4940.	154.
9	4.44	102	37115.	4639.	144.
10	4.44	95	34054.	4357.	135.
11	4.44	90	32731.	4091.	127.
12	4.44	84	30738.	3842.	119.
13	4.44	79	28865.	3608.	112.
14	4.44	74	27107.	3388.	105.
15	4.44	70	25456.	3182.	99.
16	4.44	65	23905.	2980.	93.
17	4.44	61	22449.	2806.	87.
18	4.44	58	21082.	2635.	82.
19	4.44	54	19798.	2475.	77.
20	4.44	51	18592.	2324.	72.
21	4.44	48	17459.	2182.	68.
TOTAL.....			75852.	94478.	2936.

12-07-83

ANNUAL COST INFLATION.....%	0.0
ANNUAL PRICE INFLATION....%	0.0
NEG INC TAX USED AS FUTURE CREDIT	

	UNITED PROFIT TO**	RATE OF RETURN B.T.I.
ESTIMATED RATIO***		
TAX AFTER TAX		
\$0.60	0.0	0.49
1.14	0.0	0.49

YEAR	INCOME **\$1000	**NET1*	***** CAPITAL*	***** DEPR.	***** AD.V.	***** SEV.	***** TAXES	***** COSTS	***** PROD.	***** CUM	***** BEFORE	***** TAXES	***** INCOME	***** TAXES	***** AFTER
1	141	361	10	12	17	12	3			-214	-119	0			-214
2	221	0	14	17	17	12	6			198	184	31	58		167
3	147	0	9	11	11	12	6			130	121	72	58		72
4	118	0	7	9	9	9	6			103	95	57	46		57
5	191	0	6	8	8	8	6			88	81	39	39		49
6	93	0	6	7	7	7	6			80	75	35	36		45
7	88	0	5	7	7	7	6			75	70	33	42		42
8	82	0	5	6	6	6	6			70	65	31	39		39
9	77	0	5	6	6	6	6			65	60	29	36		36
10	72	0	5	5	5	5	6			61	56	27	34		34
11	68	0	4	5	5	5	6			57	52	25	25		32
12	64	0	4	5	5	5	6			53	49	23	29		29
13	60	0	4	4	4	4	6			49	45	22	27		27
14	56	0	4	4	4	4	6			46	42	20	25		25
15	52	0	3	4	4	4	6			42	39	19	24		24
16	49	0	3	4	4	4	6			39	36	17	22		22
17	46	0	3	3	3	3	6			37	34	16	19		19
18	43	0	3	3	3	3	6			34	31	15	15		15
19	41	0	3	3	3	3	6			31	29	14	14		14
20	38	0	2	3	3	3	6			29	27	13	13		13
TOTAL	1677	361	105	126	117	1073	0	1073	515	558					

NORTHWEST PIPELINE CORPORATION
GAS RESERVES DEPARTMENT ECONOMIC STUDY
COMMERCIALITY OF SAN JUAN 30-5 #70 DK

12-07-83

WORKING INT. B/PAYOUT.....%	100.0	ANNUAL COST INFLATION.....%	0.0
WORKING INT. A/PAYOUT.....%	100.0	ANNUAL PRICE INFLATION.....%	0.0
INCOME TAX.....%	48.0	NEG INC TAX USED AS FUTURE CREDIT	
UNIT OF PRODUCTION DEPRECIATION			

GAS PRODUCTION FROM SAN JUAN 30-5 #70 DK			
LAND OWNER ROYALTY.....%	12.5	OVERRIDING ROYALTY.....%	0.0
AD VALOREM AND SEV TAXES.....%	7.5	OPERATING COSTS (\$/MD).....%	500.0
MONTH OF CAPITAL EXPENSE.....	2	OPERATING COSTS (% OF PROD).....%	0.0
DRILLING COSTS (\$1000).....	360.8	TANGIBLE \$ (% OF DRILLING \$)	29.1
SALVAGE VALUE (\$1000).....	0.0		

INITIAL MONTH	MCF/D	DECLINE	%	TO ENDING MONTH
8	320.0	61.9		12
12	232.0	62.0		16
16	168.0	43.4		20
20	138.0	29.5		32
32	98.0	17.3		44
44	81.0	13.6		56
56	70.0	6.2		248
248	25.0	100.0		249

YEAR	PRICE \$/MCF	AVG MCF/D	ANNUAL MCF	ROYALTY MCF	REVENUE AFTER ROYALTY \$1000
1	4.42	114	41735.	5217.	161.
2	4.42	156	57118.	7140.	221.
3	4.42	104	37952.	4744.	147.
4	4.42	83	30432.	3804.	118.
5	4.42	72	26202.	3275.	101.
6	4.42	66	24172.	3021.	93.
7	4.42	62	22665.	2833.	88.
8	4.42	58	21253.	2657.	82.
9	4.42	55	19928.	2491.	77.
10	4.42	51	18686.	2336.	72.
11	4.42	48	17521.	2190.	68.
12	4.42	45	16429.	2054.	64.
13	4.42	42	15406.	1926.	60.
14	4.42	40	14445.	1806.	56.
15	4.42	37	13545.	1693.	52.
16	4.42	35	12701.	1588.	49.
17	4.42	33	11909.	1489.	46.
18	4.42	31	11167.	1396.	43.
19	4.42	29	10471.	1309.	40.
20	4.42	27	9818.	1227.	38.
TOTAL.....			433550.	54194.	1677.

12-07-83

ANNUAL COST INFLATION.....	%	0.0
ANNUAL PRICE INFLATION.....	%	0.0
NEG INC TAX USED AS FUTURE CREDIT		

DISCOUNT	*****PRESENT VALUE*****	DISCOUNTED PROFIT TO**
RATE	***** \$1000 *****	**INVESTMENT RATIO***
**** % ****	BEFORE TAX AFTER TAX	BEFORE TAX AFTER TAX
21.2	0.	0.00
17.9	0.	0.29
12.0	113.	18.
		0.05
		RATE OF RETURN B.I.
		RATE OF RETURN A.T.

YEAR	INCOME \$1000	NET \$1000	DEPR.	AD.V.	EXPENSES IN \$1000	PROD.	COSTS	TAXES	BEFORE TAXES	TAXES	CUM	BEFORE TAXES	TAXES	INCOME	TAXES	AFTER TAXES	IN \$1000
1	114	394	13	9	2	2	2	-290	-290	-180	0	0	0	-290	0	-290	
2	157	0	18	12	6	6	6	139	-151	122	0	0	0	139	0	139	
3	96	0	11	7	6	6	6	83	-68	72	6	6	6	76	6	76	
4	75	0	8	6	6	6	6	64	-5	55	26	23	37	32	23	32	
5	65	0	7	5	6	6	6	54	50	47	29	20	29	27	19	27	
6	60	0	7	4	6	6	6	49	99	43	39	19	39	17	25	23	
7	56	0	6	4	6	6	6	46	145	36	34	16	34	15	21	20	
8	52	0	6	4	6	6	6	42	187	26	26	14	26	13	18	17	
9	49	0	6	4	6	6	6	39	226	24	24	11	24	11	16	16	
10	46	0	5	3	6	6	6	36	262	20	20	9	20	9	13	13	
11	43	0	5	3	6	6	6	34	296	17	17	8	17	8	12	12	
12	40	0	5	3	6	6	6	31	327	14	14	7	14	7	10	10	
13	37	0	4	3	6	6	6	29	355	11	11	6	11	6	9	9	
14	35	0	4	3	6	6	6	26	382	8	8	5	8	5	7	7	
15	33	0	4	2	6	6	6	24	406	6	6	4	6	4	6	6	
16	31	0	3	2	6	6	6	22	428	4	4	3	4	3	5	5	
17	29	0	3	2	6	6	6	20	448	3	3	2	3	2	4	4	
18	27	0	3	2	6	6	6	19	467	2	2	1	2	1	3	3	
19	25	0	3	2	6	6	6	17	484	1	1	0	1	0	2	2	
20	23	0	3	2	6	6	6	16	500	0	0	0	0	0	1	1	
TOTAL	1092	394	123	82	116	116	116	500	0	500	240	240	240	240	240	260	

NORTHWEST PIPELINE CORPORATION
GAS RESERVES DEPARTMENT ECONOMIC STUDY
COMMERCIALITY OF SAN JUAN 30-5 ±71 DK

12-07-83

WORKING INT. B/PAYOUT.....%	100.0	ANNUAL COST INFLATION.....%	0.0
WORKING INT. A/PAYOUT.....%	100.0	ANNUAL PRICE INFLATION.....%	0.0
INCOME TAX.....%	48.0	NEG INC TAX USED AS FUTURE CREDIT	
UNIT OF PRODUCTION DEPRECIATION			

GAS PRODUCTION FROM SAN JUAN 30-5 ±71 DK			
LAND OWNER ROYALTY.....%	12.5	OVERRIDING ROYALTY.....%	0.0
AD VALOREM AND SEV TAXES.....%	7.5	OPERATING COSTS (\$/MO).....	500.0
MONTH OF CAPITAL EXPENSE.....	4	OPERATING COSTS (% OF PROD).....	0.0
DRILLING COSTS (\$1000).....	394.0	TANGIBLE \$ (% OF DRILLING \$).....	31.2
SALVAGE VALUE (\$1000).....	0.0		

INITIAL MONTH	MCF/D	DECLINE	Z	TO ENDING MCF/D	MONTH
10	406.0	95.8		141.0	14
14	141.0	61.0		103.0	18
18	103.0	41.8		86.0	22
22	86.0	30.2		60.0	34
34	60.0	16.7		50.0	46
46	50.0	12.0		44.0	58
58	44.0	6.5		15.0	250
250	15.0	100.0		0.0	251

YEAR	PRICE \$/ MCF	AVG MCF/D	ANNUAL MCF	ROYALTY MCF	REVENUE AFTER ROYALTY \$1000
1	4.46	80	29127	3641	114
2	4.46	110	40267	5833	157
3	4.46	67	24550	3069	96
4	4.46	53	19307	2413	75
5	4.46	46	16713	2089	65
6	4.46	42	15326	1916	60
7	4.46	39	14329	1791	56
8	4.46	37	13397	1675	52
9	4.46	34	12526	1566	49
10	4.46	32	11711	1464	46
11	4.46	30	10949	1369	43
12	4.46	28	10237	1280	40
13	4.46	26	9571	1196	37
14	4.46	24	8949	1119	35
15	4.46	23	8366	1046	33
16	4.46	21	7822	978	31
17	4.46	20	7313	914	29
18	4.46	19	6838	855	27
19	4.46	18	6393	799	25
20	4.46	16	5977	747	23
TOTAL.....			279662	34958	1091

NORTHWEST PIPELINE CORPORATION
GAS RESERVES DEPARTMENT ECONOMIC STUDY
COMMERCIALITY OF SAN JUAN 30-5 #72 DK

12-07-83

WORKING INT. B/PAYOUT.....% 100.0 ANNUAL COST INFLATION.....% 0.0
WORKING INT. A/PAYOUT.....% 100.0 ANNUAL PRICE INFLATION.....% 0.0
INCOME TAX.....% 48.0 NEG INC TAX USED AS FUTURE CREDIT
UNIT OF PRODUCTION DEPRECIATION

DISCOUNT ***PRESENT VALUE**** DISCOUNTED PROFIT TO**
RATE ***** \$1000 ***** **INVESTMENT RATIO***
*** % ** BEFORE TAX AFTER TAX BEFORE TAX AFTER TAX
123.7 0. 0.00 0.00 RATE OF RETURN B.I.
74.2 1479. 726. 3.66 0.0 RATE OF RETURN A.T.
12.0

INCOME **PROJECT EXPENSES IN \$1000* ****CASH FLOW ANALYSIS IN \$1000****									
\$1000	***	*****	AD.V.	*****	*****	*****	*****	*****	*****
NET*	CAPL-	***	SEV.	PROD.	*****	*****	*****	*****	*****
YEAR *****	*TAL*	DEPR.	TAXES	COSTS	*TAXES	TAXES	INCOME	TAXES	TAXES
1	200	404	7	15	2	-221	-83	0	-221
2	589	0	21	44	6	539	518	209	330
3	382	0	13	29	6	347	334	160	187
4	299	0	10	22	6	270	260	125	146
5	236	0	9	19	6	231	222	106	124
6	236	0	8	18	6	212	204	98	114
7	222	0	8	17	6	200	178	92	108
8	210	0	7	16	6	188	176	87	101
9	198	0	7	15	6	177	170	82	95
10	186	0	7	14	6	166	160	77	90
11	176	0	6	13	6	156	150	72	84
12	166	0	6	12	6	147	141	68	79
13	156	0	5	12	6	138	133	64	75
14	147	0	5	11	6	130	125	60	70
15	139	0	5	10	6	122	117	56	66
16	131	0	5	10	6	115	110	53	62
17	123	0	4	9	6	108	104	50	58
18	116	0	4	9	6	101	97	47	55
19	109	0	4	8	6	95	91	44	51
20	103	0	4	8	6	89	86	41	48
TOTAL	4143	404	145	311	116	3312	0	3312	1590

PAYOUT DURING MONTH 5 OF YEAR 2

NORTHWEST PIPELINE CORPORATION
GAS RESERVES DEPARTMENT ECONOMIC STUDY
COMMERCIALITY OF SAN JUAN 30-5 #72 DK

12-07-83

WORKING INT. B/PAYOUT.....%	100.0	ANNUAL COST INFLATION.....%	0.0
WORKING INT. A/PAYOUT.....%	100.0	ANNUAL PRICE INFLATION.....%	0.0
INCOME TAX.....%	48.0	REG INC TAX USED AS FUTURE CREDIT	
UNIT OF PRODUCTION DEPRECIATION			

GAS PRODUCTION FROM SAN JUAN 30-5 #72 DK			
LAND OWNER ROYALTY.....%	12.5	OVERRIDING ROYALTY.....%	0.0
AD VALOREM AND SEV TAXES.....%	7.5	OPERATING COSTS (\$/MO).....	500.0
MONTH OF CAPITAL EXPENSE.....	3	OPERATING COSTS (% OF PROD).....	0.0
DRILLING COSTS (\$1000).....	403.7	TANGIBLE \$ (% OF DRILLING \$)	35.9
SALVAGE VALUE (\$1000).....	0.0		

INITIAL MONTH	MCF/D	DECLINE %	TO ENDING MCF/D	MONTH
9	350.0	-331.9	570.0	13
13	570.0	60.0	420.0	17
17	420.0	37.0	360.0	21
21	360.0	31.4	247.0	33
33	247.0	18.2	202.0	45
45	202.0	13.4	175.0	57
57	175.0	5.7	68.0	249
249	68.0	100.0	0.0	250

YEAR	PRICE \$/ MCF	AVG MCF/D	ANNUAL MCF	ROYALTY MCF	REVENUE AFTER ROYALTY \$1000
1	4.42	141	51641.	6455.	200.
2	4.42	417	152261.	19033.	589.
3	4.42	270	98780.	12348.	382.
4	4.42	211	77238.	9655.	299.
5	4.42	181	66135.	8267.	256.
6	4.42	167	61007.	7626.	236.
7	4.42	157	57507.	7188.	222.
8	4.42	148	54208.	6776.	210.
9	4.42	140	51098.	6387.	198.
10	4.42	132	48167.	6021.	186.
11	4.42	124	45403.	5675.	176.
12	4.42	117	42799.	5350.	166.
13	4.42	110	40343.	5043.	156.
14	4.42	104	38029.	4754.	147.
15	4.42	98	35847.	4481.	139.
16	4.42	93	33791.	4224.	131.
17	4.42	87	31852.	3982.	123.
18	4.42	82	30025.	3753.	116.
19	4.42	77	28302.	3538.	109.
20	4.42	73	26679.	3335.	103.
TOTAL.....			1071099.	133883.	4142.

NORTHWEST PIPELINE CORPORATION
GAS RESERVES DEPARTMENT ECONOMIC STUDY
COMMERCIALITY OF SAN JUAN 30-5 #73 DK

12-07-83

WORKING INT. B/PAYOUT.....Z 100.0 ANNUAL COST INFLATION.....Z 0.0
WORKING INT. A/PAYOUT.....Z 100.0 ANNUAL PRICE INFLATION.....Z 0.0
INCOME TAX.....Z 48.0 NEG INC TAX USED AS FUTURE CREDIT
UNIT OF PRODUCTION DEPRECIATION

DISCOUNT ***** PRESENT VALUE***** DISCOUNTED PROFIT TO**
RATE** ** \$1000 ***** **INVESTMENT RATIO***
*** Z ** BEFORE TAX AFTER TAX BEFORE TAX AFTER TAX RATE OF RETURN B.T.
37.5 0. 0.00 0.0 RATE OF RETURN A.T.
23.6 0. 0.83 0.32
12.0 333. 129. 0.32

INCOME **PROJECT EXPENSES IN \$1000* ****CASH FLOW ANALYSIS IN \$1000****									
\$1000	***	*****	AD.V.	*****	*****	**CUM	*****	*****	*****
NET*	CAPIT-	***	SEV.	PROD.	*****	BEFORE	TAXED	INCOME	AFTER
YEAR *****	*TAL*	DEPR.	TAXES	COSTS	*TAXES	BEFORE	TAXES	INCOME	TAXES
1	136	399	13	10	2	-275	-275	-140	0
2	220	0	20	17	6	197	-78	177	180
3	144	0	13	11	6	127	49	114	55
4	115	0	11	9	6	100	149	89	43
5	98	0	9	7	6	84	234	75	36
6	89	0	8	7	6	77	310	68	33
7	84	0	8	6	6	71	382	64	31
8	78	0	7	6	6	66	448	59	28
9	73	0	7	5	6	62	510	55	26
10	68	0	6	5	6	57	567	51	24
11	64	0	6	5	6	53	620	47	23
12	60	0	6	5	6	49	669	44	21
13	56	0	5	4	6	46	715	41	19
14	52	0	5	4	6	42	758	38	18
15	49	0	5	4	6	39	797	35	17
16	46	0	4	3	6	36	833	32	15
17	43	0	4	3	6	34	867	30	14
18	40	0	4	3	6	31	898	27	13
19	38	0	3	3	6	29	927	25	12
20	35	0	3	3	6	26	953	23	11
TOTAL	1588	399	148	119	116	953	0	953	458

PAYOUT DURING MONTH 7 OF YEAR 3

NORTHWEST PIPELINE CORPORATION
GAS RESERVES DEPARTMENT ECONOMIC STUDY
COMMERCIALITY OF SAN JUAN 30-5 #73 DK

12-07-83

WORKING INT. B/PAYOUT.....%	100.0	ANNUAL COST INFLATION.....%	0.0
WORKING INT. A/PAYOUT.....%	100.0	ANNUAL PRICE INFLATION.....%	0.0
INCOME TAX.....%	48.0	NEG INC TAX USED AS FUTURE CREDIT	
UNIT OF PRODUCTION DEPRECIATION			

GAS PRODUCTION FROM SAN JUAN 30-5 #73 DK			
LAND OWNER ROYALTY.....%	12.5	OVERRIDING ROYALTY.....%	0.0
AD VALOREM AND SEV TAXES.....%	7.5	OPERATING COSTS (\$/MO).....	500.0
MONTH OF CAPITAL EXPENSE.....	3	OPERATING COSTS (% OF PROD).....	0.0
DRILLING COSTS (\$1000).....	399.2	TANGIBLE \$ (% OF DRILLING \$)	36.9
SALVAGE VALUE (\$1000).....	0.0		

INITIAL MONTH	MCF/D	DECLINE %	TO ENDING MONTH
9	340.0	72.9	220.0
13	220.0	61.5	160.0
17	160.0	46.4	130.0
21	130.0	26.9	95.0
33	95.0	17.9	78.0
45	78.0	14.1	67.0
57	67.0	6.5	23.0
249	23.0	100.0	0.0

YEAR	PRICE \$/ MCF	AVG MCF/D	ANNUAL MCF	ROYALTY MCF	REVENUE AFTER ROYALTY \$1000
1	4.40	97	35421	4428	136
2	4.40	156	57141	7143	220
3	4.40	102	37353	4669	144
4	4.40	82	29784	3723	115
5	4.40	69	25368	3171	98
6	4.40	64	23215	2902	89
7	4.40	59	21714	2714	84
8	4.40	56	20311	2539	78
9	4.40	52	18998	2375	73
10	4.40	49	17770	2221	68
11	4.40	46	16621	2078	64
12	4.40	43	15547	1943	60
13	4.40	40	14542	1818	56
14	4.40	37	13602	1700	52
15	4.40	35	12723	1590	49
16	4.40	33	11900	1488	46
17	4.40	30	11131	1391	43
18	4.40	29	10411	1301	40
19	4.40	27	9738	1217	37
20	4.40	25	9109	1139	35
TOTAL.....			412392	51549	1588

NORTHWEST PIPELINE CORPORATION
GAS RESERVES MASTER FILE EXTRACT
VOLUMES AT 14.73 PSIA WITH METER PRESSURE AND FLOW DAYS

METER/WELL : 85461/SJ 30-5 UNIT #73	INITIAL MMCF : 0.000
UNIT/STATE : 99917/NEW MEXICO	CUMULATIVE : 124.284
FIELD : BASIN	REMAINING : -124.284
FORMATION : DAKOTA	BTU/GRAVITY : 98470.585
LOCATION : T 30N R 5W SEC 10B	I.D. DATE YYYYDD : 81-9-4
FOOTAGE : 906FSL1760FEL	CNTR INTEREST : 1.000000
OPERATOR : NORTHWEST PIPELINE CORP	LSHD INTEREST : 0.000000
SYSTEM : NWP SAN JUAN	R.L. RATIO : 0.0

MONTH	MCF	PSIG	DAYS	MONTH	MCF	PSIG	DAYS
NOV80	0	0	0	NOV81	3652	289	7.8
DEC80	0	0	0	DEC81	8067	287	28.5
JAN81	0	0	0	JAN82	5650	280	27.7
FEB81	0	0	0	FEB82	5284	263	24.4
MAR81	0	0	0	MAR82	5567	267	30.8
APR81	0	0	0	APR82	4672	295	29.9
MAY81	0	0	0	MAY82	5382	305	24.0
JUN81	0	0	0	JUN82	2518	302	8.8
JUL81	0	0	0	JUL82	4541	343	17.0
AUG81	0	0	0	AUG82	625	273	6.4
SEP81	13191	330	20.3	SEP82	2003	280	6.9
OCT81	11642	325	24.0	OCT82	2431	273	24.2
TOTAL	24233	44.3	TOTAL	50392	236.4	TOTAL	49659

METER/WELL : 85460/SJ 30-5 UNIT #72	INITIAL MMCF : 0.000
UNIT/STATE : 99917/NEW MEXICO	CUMULATIVE : 269.495
FIELD : BASIN	REMAINING : -269.495
FORMATION : DAKOTA	BTU/GRAVITY : 98970.585
LOCATION : T 30N R 5W SEC 10B	I.D. DATE YYYYDD : 81-12-21
FOOTAGE : 805FSL 820FEL	CNTR INTEREST : 1.000000
OPERATOR : NORTHWEST PIPELINE CORP	LSHD INTEREST : 0.000000
SYSTEM : NWP SAN JUAN	R.L. RATIO : 0.0

MONTH	MCF	PSIG	DAYS	MONTH	MCF	PSIG	DAYS
NOV80	0	0	0	NOV81	12778	285	7.0
DEC80	0	0	0	DEC81	28942	287	31.0
JAN81	0	0	0	JAN82	8882	296	6.5
FEB81	0	0	0	FEB82	6908	298	4.9
MAR81	0	0	0	MAR82	28989	300	14.9
APR81	0	0	0	APR82	19775	308	24.2
MAY81	0	0	0	MAY82	7465	300	6.8
JUN81	0	0	0	JUN82	13374	351	11.8
JUL81	0	0	0	JUL82	3851	297	4.8
AUG81	0	0	0	AUG82	0	0	0
SEP81	0	0	0	SEP82	4349	300	4.1
OCT81	0	0	0	OCT82	0	0	0
TOTAL	0	0	TOTAL	135453	116.0	TOTAL	134042

NORTHWEST PIPELINE CORPORATION
GAS RESERVES MASTER FILE EXTRACT
VOLUMES AT 14.73 PSIA WITH METER PRESSURE AND FLOW DAYS

METER/WELL : 85441/SJ 30-5 UNIT #50	INITIAL MRCF : 0.000
UNIT/STATE : 99917/NEW MEXICO	CUMULATIVE : 121.612
FIELD : BASIN	REMAINING : -121.612
FORMATION : DAKOTA	BTU/GRAVITY : 1003/0.591
LOCATION : T 30N R 5W SEC 6M	I.D. DATE Y1MDD : 81- 7-30
FOOTAGE : 1050FSL 890FNL	CNTR INTEREST : 1.000000
OPERATOR : NORTHWEST PIPELINE CORP	LSHD INTEREST : 0.000000
SYSTEM : NWP SAN JUAN	R.L.RATIO : 0.0

MONTH	MCF	PSIG	DAYS	MONTH	MCF	PSIG	DAYS
NOV80	0	0	0	NOV82	5885	287	26.2
DEC80	0	0	0	DEC82	641	280	2.6
JAN81	0	0	0	JAN83	8726	250	24.3
FEB81	0	0	0	FEB83	4914	266	11.5
MAR81	0	0	0	MAR83	87	260	0.0
APR81	0	0	0	APR83	6184	266	22.9
MAY81	0	0	0	MAY83	3971	300	12.7
JUN81	0	0	0	JUN83	4163	284	20.1
JUL81	0	0	0	JUL83	5664	257	26.7
AUG81	3519	248	27.9	AUG83	2121	284	8.0
SEP81	3603	257	14.0	SEP83	3165	265	6.1
OCT81	8791	277	19.8	OCT83	0	0	0.0
TOTAL	16113	61.7	TOTAL	59978	240.5	TOTAL	45521

METER/WELL : 85398/SJ 30-5 UNIT #70	INITIAL MRCF : 0.000
UNIT/STATE : 99917/NEW MEXICO	CUMULATIVE : 124.729
FIELD : BASIN	REMAINING : -124.729
FORMATION : DAKOTA	BTU/GRAVITY : 989/0.585
LOCATION : T 30N R 5W SEC 9A	I.D. DATE Y1MDD : 81- 8- 7
FOOTAGE : 790FNL 790FNL	CNTR INTEREST : 1.000000
OPERATOR : NORTHWEST PIPELINE CORP	LSHD INTEREST : 0.000000
SYSTEM : NWP SAN JUAN	R.L.RATIO : 0.0

MONTH	MCF	PSIG	DAYS	MONTH	MCF	PSIG	DAYS
NOV80	0	0	0	NOV82	8933	300	29.9
DEC80	0	0	0	DEC82	3636	281	16.9
JAN81	0	0	0	JAN83	1150	285	2.8
FEB81	0	0	0	FEB83	8878	267	27.9
MAR81	0	0	0	MAR83	5355	257	31.0
APR81	0	0	0	APR83	3187	283	17.7
MAY81	0	0	0	MAY83	59	306	0.2
JUN81	0	0	0	JUN83	126	303	0.7
JUL81	0	0	0	JUL83	2570	273	5.4
AUG81	5946	337	18.2	AUG83	4511	308	9.0
SEP81	10510	336	27.9	SEP83	5061	285	16.0
OCT81	8129	322	36.8	OCT83	1249	382	1.9
TOTAL	24585	76.9	TOTAL	56229	215.9	TOTAL	43915

METER/WELL	85459/SJ 30-5 UNIT #52	INITIAL MCF:	0.000								
UNIT/STATE	99917/NEW MEXICO	CUMULATIVE	142.544								
FIELD	BASIN	REMAINING	-142.544								
FORMATION	DAKOTA	BTU/GRAVITY	993/0.585								
LOCATION	T 30N R 5W SEC 15N	I.D. DATE YMMDD	81-9-25								
FOOTAGE	809FSL1785FAL	CNTR INTEREST	1.000000								
OPERATOR	NORTHWEST PIPELINE CORP	LSHD INTEREST	0.000000								
SYSTEM	NMP SAN JUAN	R.L.RATIO	0.0								
MONTH	MCF	PSIG	DAYS	MONTH	MCF	PSIG	DAYS				
NOV80	0	0.0	NOV81	3661	295	6.5	NOV82	3659	293	4.9	
DEC80	0	0.0	DEC81	5761	295	12.7	DEC82	11735	278	30.9	
JAN81	0	0.0	JAN82	8218	283	24.5	JAN83	7807	261	28.0	
FEB81	0	0.0	FEB82	8214	263	27.8	FEB83	2825	272	7.0	
MAR81	0	0.0	MAR82	9108	272	30.2	MAR83	8991	264	30.6	
APR81	0	0.0	APR82	5845	294	28.9	APR83	6328	280	22.0	
MAY81	0	0.0	MAY82	7125	299	23.6	MAY83	824	292	1.8	
JUN81	0	0.0	JUN82	2997	290	7.0	JUN83	4176	289	19.1	
JUL81	0	0.0	JUL82	6739	330	16.0	AUG83	5819	264	24.9	
AUG81	0	0.0	AUG82	5039	267	11.9	SEP83	2372	297	6.0	
SEP81	1265	325	1.9	SEP82	3284	249	6.8	SEP83	5771	279	15.9
OCT81	12462	329	21.5	OCT82	0	0.0	OCT83	0	0.0	0.0	
TOTAL	13727	23.4	TOTAL	65911	195.9	TOTAL	62906	191.1			

METER/WELL :	85382/SJ 30-5 UNIT #53	INITIAL MCF :	0.000								
UNIT/STATE :	99917/NEW MEXICO	CUMULATIVE :	227.077								
FIELD :	BASIN	REMAINING :	-227.077								
FORMATION :	DAKOTA	BTU/GRAVITY :	994/0.584								
LOCATION :	T 30N R 5W SEC 16L	I.D. DATE YMMDD :	81-6-19								
FOOTAGE :	1765FSL 970FAL	CNTR INTEREST :	1.000000								
OPERATOR :	NORTHWEST PIPELINE CORP	LSHD INTEREST :	0.000000								
SYSTEM :	NMP SAN JUAN	R.L.RATIO :	0.0								
MONTH	MCF	PSIG	DAYS	MONTH	MCF	PSIG	DAYS				
NOV80	0	0.0	NOV81	13455	293	29.9	NOV82	8062	296	19.4	
DEC80	0	0.0	DEC81	9213	300	28.8	DEC82	8387	279	12.8	
JAN81	0	0.0	JAN82	12150	292	31.0	JAN83	14149	259	22.0	
FEB81	0	0.0	FEB82	10248	270	27.8	FEB83	0	0.0	0.0	
MAR81	0	0.0	MAR82	10896	279	31.1	MAR83	0	0.0	0.0	
APR81	0	0.0	APR82	10555	300	30.0	APR83	10400	289	14.5	
MAY81	0	0.0	MAY82	0	0.0	MAY83	10282	299	14.9		
JUN81	3716	339	5.5	JUN82	5722	299	7.0	JUN83	8459	308	18.8
JUL81	15257	353	23.8	JUL82	7726	329	16.8	JUL83	10970	281	24.9
AUG81	14407	333	21.1	AUG82	0	0.0	AUG83	2393	318	6.0	
SEP81	13495	342	22.0	SEP82	0	0.0	SEP83	9179	299	16.0	
OCT81	15312	331	31.0	OCT82	2644	292	6.7	OCT83	0	0.0	0.0
TOTAL	62187	193.4	TOTAL	82609	209.1	TOTAL	82281	149.3			

METER/WELL : 85380/SJ 30-5 UNIT #48
UNIT/STATE : 99917/NEW MEXICO
FIELD : BASIN
FORMATION : DAKOTA
LOCATION : T 30N R 5W SEC 20B
FOOTAGE : 860FNL170FEL
OPERATOR : NORTHWEST PIPELINE CORP
SYSTEM : NWP SAN JUAN
INITIAL MMCF : 0.000
CUMULATIVE : 365.591
REMAINING : -365.591
BTU/GRAVITY : 992/0.584
I.D. DATE YTHDD : 81-6-9
CNTR INTEREST : 1.000000
LSHD INTEREST : 0.000000
R.L. RATIO : 0.0

MONTH	MCF	PSIG	DAYS	MONTH	MCF	PSIG	DAYS	MONTH	MCF	PSIG	DAYS
NOV80	0	0	0.0	NOV81	27989	291	29.9	NOV82	0	0	0.0
DEC80	0	0	0.0	DEC81	24933	294	29.1	DEC82	5172	283	9.3
JAN81	0	0	0.0	JAN82	22810	277	31.1	JAN83	22502	0	0.0
FEB81	0	0	0.0	FEB82	18360	257	27.8	FEB83	10578	269	21.9
MAR81	0	0	0.0	MAR82	18792	269	31.1	MAR83	0	0	0.0
APR81	0	0	0.0	APR82	15679	302	29.4	APR83	18097	278	23.1
MAY81	0	0	0.0	MAY82	0	0	0.0	MAY83	10019	301	17.0
JUN81	0	405	0.0	JUN82	10915	300	10.1	JUN83	12878	293	18.0
JUL81	2290	417	1.4	JUL82	17049	335	16.0	JUL83	7339	264	17.8
AUG81	6647	333	12.7	AUG82	0	0	0.0	AUG83	8172	300	11.0
SEPT81	26205	336	22.9	SEP82	14153	277	13.3	SEP83	10095	275	15.9
OCT81	36229	329	31.0	OCT82	18688	274	30.5	OCT83	0	0	0.0

TOTAL 71371-----68.0 TOTAL 189368-----248.3 TOTAL 104852-----134.0

METER/WELL : 65381/SJ 30-5 UNIT #51
UNIT/STATE : 99917/NEW MEXICO
FIELD : BASIN
FORMATION : DAKOTA
LOCATION : T 30N R 5W SEC 21B
FOOTAGE : 1000FNL180FEL
OPERATOR : NORTHWEST PIPELINE CORP
SYSTEM : NWP SAN JUAN
INITIAL MMCF : 0.000
CUMULATIVE : 224.941
REMAINING : -224.941
BTU/GRAVITY : 993/0.586
I.D. DATE YTHDD : 81-6-9
CNTR INTEREST : 1.000000
LSHD INTEREST : 0.000000
R.L. RATIO : 0.0

MONTH	MCF	PSIG	DAYS	MONTH	MCF	PSIG	DAYS	MONTH	MCF	PSIG	DAYS
NOV80	0	0.0	NOV81	14334	291	29.9	NOV82	19985	293	29.8	
DEC80	0	0.0	DEC81	11391	293	30.0	DEC82	10574	280	20.7	
JAN81	0	0.0	JAN82	10599	277	31.0	JAN83	0	0.0		
FEB81	0	0.0	FEB82	9378	256	27.8	FEB83	9953	268	23.0	
MAR81	0	0.0	MAR82	9897	268	30.9	MAR83	14024	260	30.6	
APR81	0	0.0	APR82	11724	295	30.1	APR83	11639	293	22.8	
MAY81	0	0.0	MAY82	0	0.0		MAY83	454	293	0.9	
JUN81	0	436	0.0	JUN82	1886	294	6.6	JUN83	7258	291	21.1
JUL81	2392	430	2.8	JUL82	9919	346	16.7	JUL83	12574	265	24.9
AUG81	11213	332	21.0	AUG82	3440	297	6.1	AUG83	2547	289	6.0
SEP81	16276	342	22.0	SEP82	0	0.0		SEP83	8928	273	16.0
OCT81	14130	329	30.9	OCT82	426	303	1.0	OCT83	0	0.0	

TOTAL 44011-----76.7 TOTAL 82994-----210.1 TOTAL 97936-----195.8

NORTHWEST PIPELINE CORPORATION
 GAS RESERVES MASTER FILE EXTRACT
 VOLUMES AT 14.73 PSIA WITH METER PRESSURE AND FLOW DAYS

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 OCTOBER 1983

METER/WELL : 85419/SJ 30-5 UNIT #71
 UNIT/STATE : 99917/NEW MEXICO
 FIELD : BASIN
 FORMATION : DAKOTA
 LOCATION : T 39N R 5W SEC 22N
 FOOTAGE : 960FSL1070FAL
 OPERATOR : NORTHWEST PIPELINE CORP
 SYSTEM : NMP SAN JUAN

INITIAL MFCF : 0.000
 CUMULATIVE : 86.675
 REMAINING : -86.675
 BRU/GRAVITY : 998/0.587
 I.D. DATE YMMDD : 81-10-5
 CNTR INTEREST : 1.000000
 LSHD INTEREST : 0.000000
 R.L. RATIO : 0.0

MONTH	MCF	PSIG	DAYS	MONTH	MCF	PSIG	DAYS	MONTH	MCF	PSIG	DAYS
NOV80	0	0	0.0	NOV81	9287	289	29.1	NOV82	5168	298	29.8
DEC80	0	0	0.0	DEC81	7518	300	30.0	DEC82	2732	284	31.0
JAN81	0	0	0.0	JAN82	4525	285	18.8	JAN83	3548	268	30.0
FEB81	0	0	0.0	FEB82	4814	263	27.5	FEB83	0	0	0.0
MAR81	0	0	0.0	MAR82	1346	265	14.2	MAR83	0	0	0.0
APR81	0	0	0.0	APR82	4382	300	22.8	APR83	6398	279	23.2
MAY81	0	0	0.0	MAY82	4	0	0.0	MAY83	2425	313	14.8
JUN81	0	0	0.0	JUN82	2269	305	10.0	JUN83	3430	273	21.1
JUL81	0	0	0.0	JUL82	5330	353	15.8	JUL83	3200	262	21.2
AUG81	0	0	0.0	AUG82	2303	268	9.8	AUG83	1419	305	6.0
SEP81	0	0	0.0	SEP82	1234	261	14.4	SEP83	2832	281	9.6
OCT81	12386	328	20.3	OCT82	125	312	0.9	OCT83	0	0	0.0
TOTAL	12386	20.3	TOTAL	43137	193.3	TOTAL	31152	186.7			

NORTHWEST PIPELINE CORPORATION

LAND DEPARTMENT

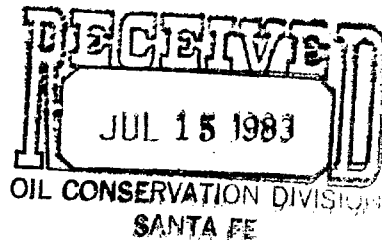
July 11, 1983

1125 Seventeenth Street, Suite 2140
Denver, Colorado 80202
303-292-4906

Assistant Area Oil and Gas Supervisor
Minerals Management Service
Western National Bank Building
505 Marquette NW, Suite 815
Albuquerque, New Mexico 87102

State of New Mexico
Commissioner of Public Lands
Attn: Mr. Ray D. Graham
P. O. Box 1148
Santa Fe, New Mexico 87501

State of New Mexico
Oil Conservation Commission
Attn: Mr. Joe Ramey
P. O. Box 2088
Santa Fe, New Mexico 87501



Re: San Juan 30-5 Unit #14-08-001-436
Rio Arriba County, New Mexico
NOTICE OF COMPLETION OF
ADDITIONAL WELL
Dakota Formation

Gentlemen:

Pursuant to the provisions of Section 11(a) of the San Juan 30-5 Unit Agreement, Northwest Pipeline, as Unit Operator, has determined that the following described well is capable of producing unitized substances in paying quantities from the Dakota Formation.

The well data is as follows:

The Schalk 57 #1E Well is located 820 feet from the North Line and 820 feet from the East Line, Section 12, Township 30 North, Range 5 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spudded on November 17, 1980 and completed on May 11, 1981. The Dakota Formation was perforated with one hole at each of the following depths:

8123', 8125', 8127', 8129', 8131', 8135',
8137', 8165', 8167', 8169', 8187', 8189',
8191', 8203', 8205', 8207', 8209', 8211',
8213', 8215', 8217', 8219', 8221', 8223',
and 8225'

Minerals Management Service
Commissioner of Public Lands
Oil Conservation Commission
Page 2
July 11, 1983

These perforations were treated with 4800 gallons of HCL followed by a sand and GEL fracturing. The well was shut-in with a SIPT of 2775 psig and SIPC of 2770 psig. On June 10, 1981 the well was tested and after flowing for three (3) hours through a 3/4 inch variable choke, the calculated 24-hour rate was 1668 MCF.

Since this well was drilled within the existing Dakota Participating Area "A", the Participating Area "A" is not affected by virtue of this commercial well and the percentages of participation remain the same.

If this determination meets with your approval, please so indicate such approval in the space provided and return an approved copy for our files. Copies of this letter are being sent to the Working Interest Owners shown on the attached sheet.

Very truly yours,



Kathy Michael
Supervisor/Land Department

KM:bs

CC: Working Interest Owners

APPROVED _____

Area Oil and Gas Supervisor
Minerals Management Service
Subject to like approval by
the Commissioner of Public
Lands and the Oil Conservation
Commission

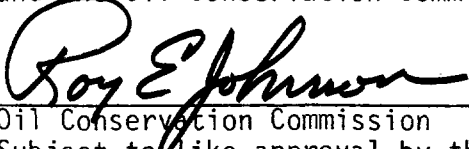
DATE _____

APPROVED _____

Commissioner of Public Lands
Subject to like approval by
the Area Oil and Gas Supervisor
and the Oil Conservation Commission

DATE _____

APPROVED _____



Oil Conservation Commission
Subject to like approval by the
Area Oil and Gas Supervisor and
the Commissioner of Public Lands

DATE 8-4-83

The foregoing is for the approval of Notice of Completion of Additional Well 30-5 Unit Schalk 57 #1E Well.

SAN JUAN 30-5
WORKING INTEREST OWNERS

AMOCO PRODUCTION COMPANY
ATTN: J. C. Burnside
1670 BROADWAY - SUITE 1914
AMOCO BUILDING
DENVER, COLORADO 80202

PHILLIPS OIL COMPANY
ATTN: DEBBIE SHELL
MEADOWS BUILDING
DALLAS, TEXAS 75206

PHILLIPS PETROLEUM COMPANY
ATTN: M. K. STUDY
8055 E. TUFTS AVENUE PARKWAY
DENVER, COLORADO 80237

EL PASO EXPLORATION COMPANY
ATTN: JAMES R. PERMENTER
P. O. BOX 1492
EL PASO, TEXAS 79978

GETTY OIL COMPANY
ATTN: MR. T. L. DITMORE
THREE PARK CENTRAL - SUITE 700
DENVER, COLORADO 80202

LARRY H. WILLIAMS
ARAPAHOE DRILLING COMPANY
200 LOMAS, NW - SUITE 440
ALBUQUERQUE, NEW MEXICO 87102

LT. COL. LANGDON DEWEY HARRISON,
TRUSTEE FOR MRS. OMEGA E. QUINN
7517 TAMARRON PLACE, N.E.
ALBUQUERQUE, NEW MEXICO 87109



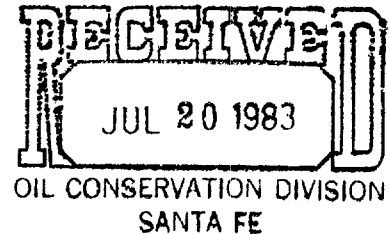
IN REPLY
REFER TO:

United States Department of the Interior

3100.6 01037

BUREAU OF LAND MANAGEMENT
505 Marquette Avenue N.W., Suite 815
Albuquerque, New Mexico 87102

19 JUL 1983



El Paso Natural Gas Company
Attention: Mr. James R. Permenter
P. O. Box 1492
El Paso, Texas 79978

Gentlemen:

Your application of March 15, 1982, requesting approval of the sixth expanded participating area, San Juan 29-7 Unit in the Dakota formation, San Juan County, New Mexico, was approved on this date by the Assistant District Manager for Minerals, Albuquerque District Office, Bureau of Land Management, Albuquerque, New Mexico, effective as of September 1, 1980.

The sixth revision adds 640 acres described as section 28, T. 29 N., R. 7 W., N.M.P.M., making a total of 6,580.75 acres in the participating area. Contributed to this revision is well #40A with an initial potential of 1,202 MCF/D.

Copies of the approved application are being distributed to the appropriate Federal offices and three approved copies are enclosed. You are requested to furnish the state of New Mexico and other interested parties with appropriate evidence of this approval.

Sincerely yours,

James W. Shelton
Assistant District Manager
for Minerals

Enclosures

cc:
BLM State Office, Santa Fe
Comm. of Public Lands
NMOCD ✓
Farmington RA (w/encl.)
Roswell Accounting
Denver Accounting



IN REPLY
REFER TO:

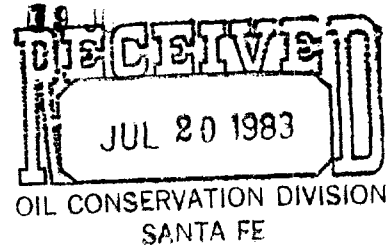
United States Department of the Interior

3100.6 01037

BUREAU OF LAND MANAGEMENT

505 Marquette Avenue N.W., Suite 815
Albuquerque, New Mexico 87102

19 JUL 1983



El Paso Natural Gas Company
Attention: Mr. James R. Permenter
P. O. Box 1492
El Paso, Texas 79978

Gentlemen:

Your application of March 15, 1982, requesting approval of the seventh expanded participating area, San Juan 29-7 Unit in the Dakota formation, San Juan County, New Mexico, was approved on this date by the Assistant District Manager for Minerals, Albuquerque District Office, Bureau of Land Management, Albuquerque, New Mexico, effective as of September 1, 1980.

The seventh revision adds 4,744.07 acres described as sections 17, 18, 19, 20, 22, 27, S $\frac{1}{2}$ section 16, and SW $\frac{1}{4}$ section 7, T. 29 N., R. 7 W., N.M.P.M., making a total of 11,324.82 acres in the participating area. Contributed to this area are three wells, #44A, #49A, and #65A, with an initial potential of 1,147 MCF/D, 251 MCF/D, and 204 MCF/D.

Copies of the approved application are being distributed to the appropriate Federal offices and three approved copies are enclosed. You are requested to furnish the state of New Mexico and other interested parties with appropriate evidence of this approval.

Sincerely yours,

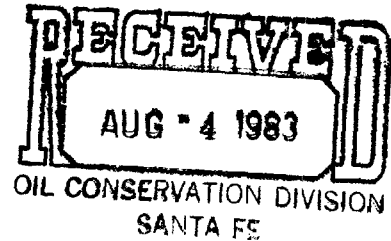
[Signature]

James W. Shelton
Assistant District Manager
for Minerals

Enclosures

cc:
BLM State Office, Santa Fe
Comm. of Public Lands
NMOCD ✓
Farmington RA (w/encl.)
Roswell Accounting
Denver Accounting

August 1, 1983



Bureau of Land Management
South Central Region
505 Marquette Avenue, N.W., Suite 815
Albuquerque, New Mexico 87102

Commissioner of Public Lands
State of New Mexico
Post Office Box 1148
Santa Fe, New Mexico 87501

417

Oil Conservation Division
State of New Mexico
Post Office Box 2088
Santa Fe, New Mexico 87501

Re: San Juan 29-7 Unit #14-08-001-1650
Rio Arriba County, New Mexico
APPROVAL OF THE SIXTH AND SEVENTH
EXPANDED PARTICIPATING AREA,
Dakota Formation, Effective August 1, 1980
and September 1, 1980 Respectively

The Sixth and Seventh Participating Areas for the Dakota Formation for the San Juan 29-7 Unit was approved by the regulatory bodies on the dates indicated:

Bureau of Land Management	7-19-83
Commissioner of Public Lands	3-18-82
Oil Conservation Commission	4-9-82

Copies of this letter are being sent to the working interest owners of the above unit.

Very truly yours,

A handwritten signature in cursive script, appearing to read "Van L. Goebel".

Van L. Goebel
Landman
Land Department

VLG:cc
San Juan 29-7 Unit, 4.3

San Juan 29-7 Unit
WORKING INTEREST OWNERS

American Petrofina Company of Texas

Amoco Production Company (4)

Atlantic Richfield Company

Mr. Tom Bolack and Tommy
Bolack, General Partners
Bolack Minerals Company

Mr. R. L. Bolin, Indep. Executor
to the Estate of D. H. Bolin

Conoco, Inc.

Getty Oil Company

T. H. McElvain Oil & Gas Properties

Mr. Jerome P. McHugh

Mesa Petroleum Company (2)
Amarillo, Texas

Mesa Petroleum Company
Denver, Colorado

Mr. Morris Mizel

Northwest Pipeline Corporation

Phillips Petroleum Company

Mr. J. A. Pierce, Trust

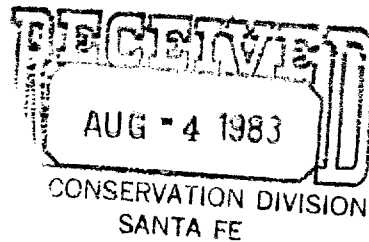
Mr. James M. Raymond, Individually and
as Attorney-in-Fact for Mabelle McElvain
Miller, Trustee for Corinne Miller Gay
Trust and Trustee for Maydell Miller
Mast Trust

Mr. Vincent F. Shryack

Southland Royalty Company

Tenneco Oil

Unicon Producing Company



3100.6

AUG 02 1983

Northwest Pipeline Corporation
Attention: Kathy Michael
1125 Seventeenth Street, Suite 2140
Denver, Colorado 80202

Gentlemen:

Enclosed is one copy of the Second Revision to the Pictured Cliffs
Participating Area, San Juan 30-5 Unit, Rio Arriba County, New Mexico.
The second revision is hereby accepted for record on this date and is
effective as of November 1, 1981.

Sincerely yours,

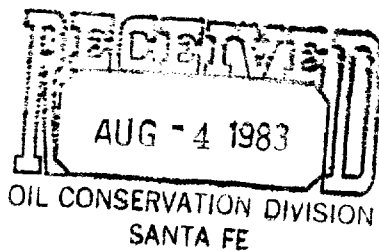
(ORIG. SGD.) JAMES W. SHELTON

Assistant District Manager
for Minerals

Enclosure

cc:

NMOCD, Santa Fe ✓



AUG 01 1983

El Paso Natural Gas Company
Attention: James K. Permenter
P. O. Box 1492
El Paso, Texas 79978

Gentlemen:

The purpose of this letter is to correct our letter dated July 19, 1983, which approved the seventh revision to the San Juan 29-7 Unit Area Dakota Participating Area, San Juan County, New Mexico. The description in paragraph 2 does not include section 21, T. 29 N., R. 7 W. Section 21 is approved as part of the Dakota participating area. Please note this correction to our approval letter. The acreage figures are correct.

Sincerely yours,

(ORIG. SGD.) JAMES W. SHELTON

FORDistrict Manager

cc:

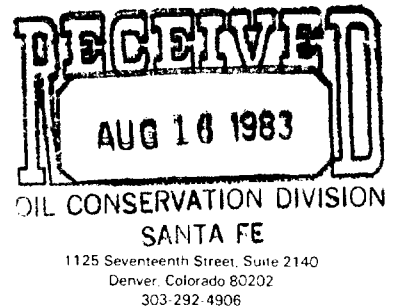
SLM State Office, Santa Fe
Commissioner Public Lands
NMOCD
RA, Farmington
Roswell Accounting
Denver Accounting
San Juan 29-7 Unit File
O & G Chrono

SEBashler:pmr:7-27-83

8

NORTHWEST PIPELINE CORPORATION

LAND DEPARTMENT



August 11, 1983

#417

Assistant Area Oil and Gas Supervisor
Minerals Management Service
Western National Bank Building
505 Marquette NW, Suite 815
Albuquerque, New Mexico 87102

State of New Mexico
Commissioner of Public Lands
Attn: Mr. Ray D. Graham
P. O. Box 1148
Santa Fe, New Mexico 87501

State of New Mexico
Oil Conservation Commission
Attn: Mr. Joe Ramey
P. O. Box 2088
Santa Fe, New Mexico 87501

Re: San Juan 30-5 Unit #14-08-001-436
Rio Arriba County

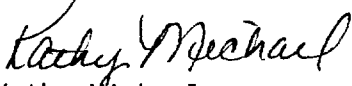
APPLICATION FOR APPROVAL OF THE
FOURTH EXPANDED PARTICIPATING AREA
Dakota Formation
Effective December 1, 1980

Gentlemen:

On June 17, 1983 we filed for your approval the captioned Dakota Expansion. It has come to our attention that Page Number 1 was inadvertently omitted from Schedule V of this Expansion. Therefore, we enclose Page 1 of Schedule V to be inserted into the Schedule.

Copies of this letter and Page 1 of Schedule V are being sent to the Working Interest Owners.

Very truly yours,


Kathy Michael
Supervisor/Land Department

KM:st
CC: Working Interest Owners

SAN JUAN 30-5
WORKING INTEREST OWNERS

AMOCO PRODUCTION COMPANY
ATTN: J. C. Burnside
1670 BROADWAY - SUITE 1914
AMOCO BUILDING
DENVER, COLORADO 80202

PHILLIPS OIL COMPANY
ATTN: DEBBIE SHELL
MEADOWS BUILDING
DALLAS, TEXAS 75206

PHILLIPS PETROLEUM COMPANY
ATTN: TOM DOUGHTY
8055 E. TUFTS AVENUE PARKWAY
DENVER, COLORADO 80237

EL PASO EXPLORATION COMPANY
ATTN: JAMES R. PERMENTER
P. O. BOX 1492
EL PASO, TEXAS 79978

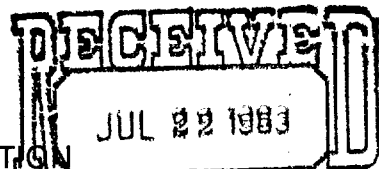
GETTY OIL COMPANY
ATTN: MR. T. L. DITMORE
THREE PARK CENTRAL - SUITE 700
DENVER, COLORADO 80202

LARRY H. WILLIAMS
ARAPAHOE DRILLING COMPANY
200 LOMAS, NW - SUITE 440
ALBUQUERQUE, NEW MEXICO 87102

LT. COL. LANGDON DEWEY HARRISON,
TRUSTEE FOR MRS. OMEGA E. QUINN
7517 TAMARRON PLACE, N.E.
ALBUQUERQUE, NEW MEXICO 87109

SCHEDULE V
FOURTH EXPANDED PARTICIPATING AREA FOR THE DAKOTA FORMATION
SAN JUAN 30-5 UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	OWNERSHIP	DRILLING BLOCK	PERCENTAGE	PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
<u>TRACT 4</u>							
SF-078739	<u>T-30-N, R-5-W</u> Sec. 21: E/2, SW/4 Sec. 22: W/2	800.00	Royalty; Working Interest; Phillips Petroleum Co., ORRI;		12.500000%	12.500000%	16.666667%
<u>TRACT 5</u>							
SF-078740	<u>T-30-N, R-5-W</u> Sec. 20: E/2	320.00	Royalty; Working Interest; Phillips Petroleum Co., ORRI;		12.500000%	12.500000%	6.666667%
<u>TRACT 6</u>							
SF-078994	<u>T-30-N, R-5-W</u> Sec. 17: SW/4, S/2NW/4 Sec. 18: E/2	560.00	Royalty; Working Interest; Phillips Petroleum Co., ORRI;		12.500000%	12.500000%	11.666667%
<u>TRACT 7</u>							
SF- 078997	<u>T-30N, R-5-W</u> Sec. 7: N/2, NW/4SW/4, N/2SE/4, SE/4SE/4 Sec. 8: NW/4, N/2SW/4 Sec. 9: A11 Sec. 17: SE/4	1,520.00	Royalty; Working Interest; Phillips Petroleum Co., ORRI;		12.500000%	12.500000%	31.666666%
<u>Total</u>							
					100.000000%	100.000000%	



NORTHWEST PIPELINE CORPORATION

OIL CONSERVATION DIVISION

SANTA FE

LAND DEPARTMENT

June 17, 1983

1125 Seventeenth Street, Suite 2140
Denver, Colorado 80202
303-292-4906

Assistant Area Oil and Gas Supervisor
Minerals Management Service
Western National Bank Building
505 Marquette NW, Suite 815
Albuquerque, New Mexico 87102

State of New Mexico
Commissioner of Public Lands
Attn: Mr. Ray D. Graham
P. O. Box 1148
Santa Fe, New Mexico 87501

State of New Mexico
Oil Conservation Commission
Attn: Mr. Joe Ramey
P. O. Box 2088
Santa Fe, New Mexico 87501

Re: San Juan 30-5 Unit #14-08-001-436
Rio Arriba & San Juan Counties

APPLICATION FOR APPROVAL OF THE
THIRD EXPANDED PARTICIPATING AREA
Dakota Formation
Effective January 1, 1980

APPLICATION FOR APPROVAL OF THE
FOURTH EXPANDED PARTICIPATING AREA
Dakota Formation
Effective December 1, 1980

APPLICATION FOR APPROVAL OF THE
FIFTH EXPANDED PARTICIPATING AREA
Dakota Formation
Effective March 1, 1981

APPLICATION FOR APPROVAL OF THE
SIXTH EXPANDED PARTICIPATING AREA
Dakota Formation
Effective April 1, 1981

NOTICE OF COMPLETION OF
ADDITIONAL WELL
Dakota Formation

Gentlemen:

Pursuant to the provisions of Section 11(b) of the San Juan 30-5 Unit Agreement #14-08-001-436, approved November 7, 1952, Northwest Pipeline Corporation, as

Unit Operator, hereby respectfully requests approval of the Third, Fourth, Fifth and Sixth Expanded Participating Areas for the Dakota Formation.

These proposed Revisions of the Participating Area for the Dakota Formation are predicated upon the determination by Northwest Pipeline Corporation, as Unit Operator, that the following San Juan 30-5 Unit Dakota Wells, which were completed outside the limits of the existing Dakota Participating Area, are capable of producing unitized substances in paying quantities from the Dakota Formation.

THIRD EXPANDED PARTICIPATING AREA - Effective January 1, 1980

<u>Description of Lands</u>	<u>Acres</u>
Township 30 North, Range 5 West, N.M.P.M. Section 20: E/2	320.00

The well data is as follows:

The San Juan 30-5 Unit #48 Well is located 860 feet from the North Line and 1770 feet from the East Line, Section 20, Township 30 North, Range 5 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spudded on December 8, 1979 and completed on January 2, 1980 in the Dakota Formation at a plug back depth of 7848'. The Dakota Formation was perforated with two holes at each of the following depths:

7804', 7805', 7806', 7807', 7808', 7809',
7810', 7811', 7812', 7813', 7814', 7815',
7816' and 7817'

These perforations were treated with 500 gallons of 7 1/2% HCL followed by a sand-water fracturing. On January 2, 1980, the well was tested and after flowing for three (3) hours through a 3/4 inch variable choke, the well gauged 3691 MCFD with a calculated AOF of 4189 MCFD.

FOURTH EXPANDED PARTICIPATING AREA - Effective December 1, 1980

<u>Description of Lands</u>	<u>Acres</u>
Township 30 North, Range 5 West, N.M.P.M. Section 8: E/2 Section 21: A11 Section 9: A11 Section 22: W/2 Section 16: A11 Section 17: E/2	2880.00

The well data is as follows:

The San Juan 30-5 Unit #51 Well is located 1000 feet from the North Line and 1800 feet from the East Line, Section 21, Township 30 North, Range 5 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spudded on September 15, 1980 and completed on December 9, 1980 in the Dakota

Formation at a plug back depth of 7790'. The Dakota Formation was perforated with one shot per foot at each of the following depths:

7764', 7765', 7766', 7767', 7768', 7769',
7770', 7771', 7772', 7773', 7774', 7775',
7776', 7777', 7778', 7779', 7780', 7781',
7782', 7783', 7784', 7785', 7786', 7787',
7788', 7789' and 7790'

These perforations were treated with 500 gallons of 7 1/2% HCL followed by a sand-water fracturing. The well was shut-in November 24, 1980 for fifteen days with a SIPC of 2744 psig and a SIPT of 2741 psig. On December 9, 1980, the well was tested and after flowing for three (3) hours through a 3/4 inch variable choke on the 2 3/8 inch tubing, the well gauged 4792 MCFD with a calculated AOF of 4857 MCFD.

The San Juan 30-5 Unit #53 Well is located 1765 feet from the South Line and 970 feet from the West Line, Section 16, Township 30 North, Range 5 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spudded on September 2, 1980 and completed on December 12, 1980 in the Dakota Formation at a plug back depth of 7775'. The Dakota Formation was perforated with one shot per foot at each of the following depths:

7723', 7724', 7725', 7726', 7727', 7728',
7729', 7730', 7731', 7732', 7733', 7734',
7735', 7736', 7737', 7738', 7739', 7740',
7741' and 7742'

These perforations were treated with 500 gallons of 7 1/2% HCL followed by a sand-water fracturing. The well was shut-in November 20, 1980 for twenty-two days with a SIPC of 2911 psig and a SIPT of 2761 psig. On December 12, 1980, the well was tested and after flowing for three (3) hours through a 3/4 inch variable choke on the 2 3/8 inch tubing, the well gauged 1209 MCFD with a calculated AOF of 1228 MCFD.

The San Juan 30-5 Unit #71 Well is located 860 feet from the South Line and 1070 feet from the West Line, Section 22, Township 30 North, Range 5 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spudded on October 18, 1980 and completed on December 16, 1980 in the Dakota Formation at a plug back depth of 7420'. The Dakota Formation was perforated with one shot per foot at each of the following depths:

7770', 7772', 7773', 7774', 7775', 7776',
7777', 7778', 7779', 7780', 7781', 7782',
7783', 7784', 7785', 7786', 7787', 7788',
7789', 7790', 7791', 7792', 7793', 7794'

These perforations were treated with 500 gallons of 7 1/2% HCL followed by a sand-water fracturing. The well was shut-in December 2, 1980 for fourteen days with a SIPC of 2702 psig and a SIPT of 2691 psig. On December 16, 1980, the well was tested and after flowing for three (3) hours through

a 3/4 inch variable choke on the 2 3/8 inch tubing, the well gauged 2145 MCFD with a calculated AOF of 2231 MCFD.

The San Juan 30-5 Unit #49 Well is located 810 feet from the South Line and 800 feet from the West Line, Section 9, Township 30 North, Range 5 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spudded on November 7, 1980 and completed on December 30, 1980 in the Dakota Formation. The Dakota Formation was perforated with one hole at each of the following depths:

7682', 7683', 7684', 7685', 7686', 7687',
7688', 7689', 7690', 7691', 7692', 7693',
7694', 7695', 7696', 7697', 7698', 7699',
7700', 7701', 7702', 7703', and 7704'

These perforations were treated with 500 gallons of 7 1/2 inch HCL followed by a sand-water fracturing. On December 30, 1980, the well was tested and after flowing for three (3) hours through a 3/4 inch variable choke, the well gauged 855 MCFD with a calculated AOF of 855 MCFD.

The San Juan 30-5 Unit #70 Well is located 790 feet from the North Line and 790 feet from the East Line, Section 9, Township 30 North, Range 5 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spudded on November 22, 1980 and completed on December 31, 1980 in the Dakota Formation at a plug back depth of 7785'. The Dakota Formation was perforated with one shot per foot from 7764' to 7790'.

These perforations were treated with 500 gallons of 7 1/2% HCL followed by a sand-water fracturing. The well was shut-in December 24, 1980 for seven (7) days with a SIPC of 2251 psig and a SIPT of 2251 psig. On December 31, 1980, the well was tested and after flowing for three (3) hours through a 3/4 inch variable choke on the 2 3/8 inch tubing, the well gauged 1584 MCFD with a calculated AOF of 1619 MCFD.

FIFTH EXPANDED PARTICIPATING AREA - Effective March 1, 1981

<u>Description of Lands</u>	<u>Acres</u>
Township 30 North, Range 5 West, N.M.P.M.	1280.00
Section 6: S/2	
Section 10: N/2	
Section 15: All	

The well data is as follows:

The San Juan 30-5 Unit #50 Well is located 1050 feet from the South Line and 890 feet from the West Line, Section 6, Township 30 North, Range 5 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spudded on January 20, 1981 and completed on March 25, 1981 in the Dakota Formation at a plug back depth of 7935'. The Dakota formation was perforated with one shot every two feet from 7768' to 7792' (13 shots).

These perforations were treated with 750 gallons of 7 1/2% HCL followed by a sand-water fracturing. The well was shut-in March 13, 1981 for twelve days with a SIPC of 2412 psig and a SIPT of 2410 psig. On March 25, 1981, the well was tested and after flowing for three (3) hours through a 3/4 inch variable choke on the 2 3/8 inch tubing, the well gauged 735 MCFD with a calculated AOF of 746 MCFD.

The San Juan 30-5 Unit #52 Well is located 800 feet from the South Line and 1785 feet from the West Line, Section 15, Township 30 North, Range 5 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spudded on February 2, 1981 and completed on March 30, 1981 in the Dakota Formation at a total depth of 7999'. The Dakota Formation was perforated with one shot every two feet from 7928' to 7952'.

These perforations were treated with 500 gallons HCL followed by a sand-water fracturing. The well was shut-in on March 23, 1981 for seven days with a SIPT of 2786 psig and a SIPC of 2792 psig. On March 30, 1981, the well was tested and after flowing for three (3) hours through a 3/4 inch variable choke on the 2 3/8 inch tubing, the well gauged 2679 MCFD with a calculated AOF of 2809 MCFD.

The San Juan 30-5 Unit #73 Well is located 900 feet from the North Line and 1760 feet from the East Line, Section 10, Township 30 North, Range 5 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spudded on February 26, 1981 and completed on March 31, 1981 in the Dakota Formation at a plug back depth of 7958'. The Dakota Formation was perforated with fourteen holes from 7924' to 7950'.

These perforations were treated with 500 gallons of 7 1/2% HCL followed by a sand-water fracturing. The well was shut-in March 17, 1981 for fourteen (14) days with a SIPC of 2829 psig and a SIPT of 2823 psig. On March 31, 1981, the well was tested and after flowing for three (3) hours through a 3/4 inch variable choke on the 2 3/8 inch tubing, the well gauged 2635 MCFD with a calculated AOF of 2773 MCFD.

SIXTH EXPANDED PARTICIPATING AREA - Effective April 1, 1981

<u>Description of Lands</u>	<u>Acres</u>
<u>Township 30 North, Range 5 West, N.M.P.M.</u>	320.00
<u>Section 10: S/2</u>	

The well data is as follows:

The San Juan 30-5 #72 Well is located 805 feet from the South Line and 820 feet from the West Line, Section 10, Township 30 North, Range 5 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spudded on February 15, 1981 and completed on April 13, 1981. The Dakota Formation was perforated with fifteen holes between each of the following depths:

7790' to 7846'

These perforations were treated with 500 gallons of 7 1/2% HCL followed by a sand-water fracturing. The well was shut-in with a SIPT of 2900 psig and SIPC of 2907 psig. The well was tested on October 22, 1981 and after flowing for three (3) hours through a 3/4 inch variable choke on the 2 3/8 inch tubing, the well gauged 2456 MCFD with a calculated AOF of 2579.

In support of these applications, the following listed Exhibits are made a part thereof:

Exhibit "A"

Ownership maps reflecting the boundaries of the Unit and the Proposed Third, Fourth, Fifth and Sixth Expansions of the Participating Area of the Dakota Formation within the San Juan 30-5 Unit.

Exhibit "B"

Geological Reports on the Third, Fourth, Fifth and Sixth Expansions of the Participating Area of the Dakota Formation within the San Juan 30-5 Unit.

Exhibit "C"

Figure No. 1: San Juan 30-5 Dakota Structure Map
Figure No. 2: San Juan 30-5 Dakota Isopach Map

Exhibit "D"

Table No. I: Schedule of San Juan 30-5 Unit Dakota Production

Attached hereto are Schedules IV, V, VI, VII showing the Proposed Third, Fourth, Fifth and Sixth Expanded Participating Areas for the Dakota Formation in the San Juan 30-5 Unit Area. These Schedules describe the Participating Area, show the percentage of unitized substances allocated to each unitized tract, and the percentage of ownership in the tracts.

NOTICE OF COMPLETION OF ADDITIONAL WELL

The well data is as follows:

The San Juan 30-5 Unit #38 Well is located 1520 feet from the North Line and 1535 feet from the East Line, Section 18, Township 30 North, Range 5 West, N.M.P.M., San Juan County, New Mexico. This well was spudded on December 26, 1979 and completed on June 25, 1980 in the Dakota Formation at a plug back depth of 7860'. The Dakota Formation was perforated with one hole at each of the following depths:

7808', 7809', 7810', 7811', 7812', 7813',
7814', 7815', 7816', 7817', 7818', 7819',
7820', 7821', 7822', 7823', 7824', 7825',
7826' and 7827'

Minerals Management Service
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Oil Conservation Commission
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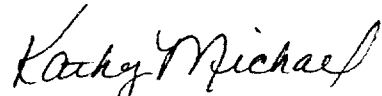
These perforations were treated with 500 gallons of 7 1/2% HCL followed by a sand-water fracturing. The well was shut-in June 3, 1980 for 22 days with a SIPT of 2880 psig and SIPC of 2900 psig. On June 25, 1980, the well was tested and after flowing for three (3) hours through a 3/4 inch variable choke on the 2 3/8 inch tubing, the well gauged 2035 MCFD with a calculated AOF of 2127.

Since this well was drilled within the existing Dakota Participating Area, the Participating Area is not enlarged by virtue of this well and the percentage of participation remains the same.

If the Third, Fourth, Fifth, and Sixth Expanded Participating Areas of the Dakota Formation meet with your approval, please indicate such approval in the space provided on the attached sheet and return an approved copy for our files.

Copies of this letter and Schedules are being sent to the Working Interest Owners as shown on the attached sheet.

Very truly yours,

A handwritten signature in cursive script that reads "Kathy Michael".

Kathy Michael
Supervisor/Land Department

KM:bs
Attachments
CC: Working Interest Owners

Minerals Management Service
Commissioner of Public Lands
Oil Conservation Commission
June 17, 1983
Page 8

APPROVED

Assistant Area Oil and Gas Supervisor
Subject to like approval by the
Commissioner of Public Lands and the
Oil Conservation Commission

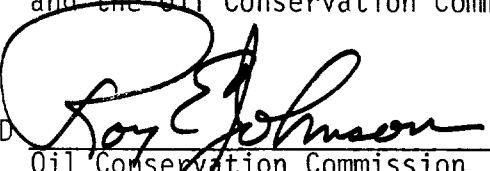
DATE _____

APPROVED

Commissioner of Public Lands
Subject to like approval by the
Assistant Area Oil and Gas Supervisor
and the Oil Conservation Commission

DATE _____

APPROVED


Oil Conservation Commission
Subject to like approval by the
Assistant Area Oil and Gas Supervisor
and the Commissioner of Public Lands

DATE 7-28-83

The foregoing are approvals for the THIRD, FOURTH, FIFTH, AND SIXTH EXPANDED PARTICIPATING AREAS in the Dakota Formation and approval for the NOTICE OF COMPLETION OF ADDITIONAL WELL in the San Juan 30-5 Unit in the Dakota Formation.

SAN JUAN 30-5
WORKING INTEREST OWNERS

AMOCO PRODUCTION COMPANY
ATTN: J. C. Burnside
1670 BROADWAY - SUITE 1914
AMOCO BUILDING
DENVER, COLORADO 80202

PHILLIPS OIL COMPANY
ATTN: DEBBIE SHELL
MEADOWS BUILDING
DALLAS, TEXAS 75206

PHILLIPS PETROLEUM COMPANY
ATTN: M. K. STUDY
8055 E. TUFTS AVENUE PARKWAY
DENVER, COLORADO 80237

EL PASO EXPLORATION COMPANY
ATTN: JAMES R. PERMENTER
P. O. BOX 1492
EL PASO, TEXAS 79978

GETTY OIL COMPANY
ATTN: MR. T. L. DITMORE
THREE PARK CENTRAL - SUITE 700
DENVER, COLORADO 80202

LARRY H. WILLIAMS
ARAPAHOE DRILLING COMPANY
200 LOMAS, NW - SUITE 440
ALBUQUERQUE, NEW MEXICO 87102

LT. COL. LANGDON DEWEY HARRISON,
TRUSTEE FOR MRS. OMEGA E. QUINN
7517 TAMARRON PLACE, N.E.
ALBUQUERQUE, NEW MEXICO 87109

SCHEDULE IV
THIRD EXPANDED PARTICIPATING AREA FOR THE DAKOTA FORMATION
SAN JUAN 30-5 UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	OWNERSHIP	DRILLING BLOCK	PERCENTAGE	PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
<u>TRACT 5</u>							
SF-078740	T-30-N, R-5-W Sec. 20: E/2	320.00	Royalty; Working Interest: Phillips Petroleum Co., ORRI;		12.500000%	12.500000%	16.666667%
			Total		100.000000%	100.000000%	
<u>TRACT 6</u>							
SF-078994	T-30-N, R-5-W Sec. 17: SW/4, S/2NW/4 Sec. 18: E/2	560.00	Royalty; Working Interest: Phillips Petroleum Co., ORRI;		12.500000%	12.500000%	29.166667%
			Total		100.000000%	100.000000%	
<u>TRACT 7</u>							
SF- 078997	T-30N, R-5-W Sec. 7: N/2, NW/4SW/4, N/2SE/4, SE/4SE/4 Sec. 8: NW/4, N/2SW/4	720.00	Royalty; Working Interest: Phillips Petroleum Co., ORRI;		12.500000%	12.500000%	37.500000%
			Total		100.000000%	100.000000%	
<u>TRACT 19</u>							
Fee	T-30-N, R-5-W Sec. 7: S/2SW/4, NE/4SW/4, SW/4SE/4	160.00	Royalty; Working Interest: Amoco Production Company, ORRI;		12.500000%	12.500000%	8.333333%
			Total		100.000000%	100.000000%	

Effective January 1, 1980

SCHEDULE IV
THIRD EXPANDED PARTICIPATING AREA FOR THE DAKOTA FORMATION
SAN JUAN 30-5 UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	OWNERSHIP	DRILLING BLOCK	PERCENTAGE	PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
<u>TRACT 25</u>							
Fee	T-30-N, R-5-W Sec. 8: S/2SW/4 Sec. 17: N/2NW/4 (except 4 acres out of NW/4NW/4)	156.00	Royalty; Working Interest: Amoco Production Co.; Phillips Petroleum Co.; ORRI;		12.500000%	12.500000%	8.125000%
			Total		<u>100.000000%</u>	<u>100.000000%</u>	
<u>TRACT 25-A</u>							
Fee	T-30-N, R-5-W A tract of land 1200' long by 450' wide containing 4 acres, more or less, lying in NW/4 of Sec. 17	4.00	Royalty; Working Interest: Amoco Production Co.; Phillips Petroleum Co.; ORRI;		12.500000%	12.500000%	0.208333%
			Total		<u>100.000000%</u>	<u>100.000000%</u>	

Effective January 1, 1980

SCHEDULE IV
THIRD EXPANDED PARTICIPATING AREA FOR THE DAKOTA FORMATION
SAN JUAN 30-5 UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	OWNERSHIP	DRILLING BLOCK	PERCENTAGE	PERCENTAGE	PRESENT ACTUAL
						COMMITTED	PARTICIPATION

R E C A P I T U L A T I O N

Description of Lands in Participating Area:

Township 30 North, Range 5 West, N.M.P.M.
Section 7: All
 Section 8: W/2
 Section 17: W/2
 Section 18: E/2
 Section 20: E/2

Total Number of Acres in Participating Area: 1920.00
 Total Number of Acres Committed in Participating Area: 1920.00

SCHEDULE V
FOURTH EXPANDED PARTICIPATING AREA FOR THE DAKOTA FORMATION
SAN JUAN 30-5 UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	OWNERSHIP	DRILLING BLOCK	PERCENTAGE	PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
TRACT 17							
State of NM E-347-7	T-30-N, R-5-W Sec. 16: NE/4	160.00	Royalty; Working Interest: Amoco Production Co., ORRI;		12.500000%	12.500000%	3.333333%
			Total		100.000000%	100.000000%	
TRACT 17-A							
State of NM E-347-8	T-30-N, R-5-W Sec. 16: N/2NW/4	80.00	Royalty; Working Interest: Getty Oil Co., ORRI;		12.500000%	12.500000%	1.666667%
			Total		100.000000%	100.000000%	
TRACT 17-D							
State of NM E-347-17	T-30-N, R-5-W Sec. 16: S/2NW/4	80.00	Royalty; Working Interest: Amoco ORRI;		12.500000%	12.500000%	1.666667%
			Total		100.000000%	100.000000%	
TRACT 17-F							
State of NM E-347-26	T-30-N, R-5-W Sec. 16: S/2	320.00	Royalty; Working Interest: Phillips Petroleum Co., ORRI;		12.500000%	12.500000%	6.666667%
			Total		100.000000%	100.000000%	

Effective December 1, 1980

SCHEDULE V
FOURTH EXPANDED PARTICIPATING AREA FOR THE DAKOTA FORMATION
SAN JUAN 30-5 UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	OWNERSHIP	DRILLING BLOCK	PERCENTAGE	PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
<u>TRACT 18</u>							
Fee	<u>T-30-N, R-5-W</u> Sec. 8: E/2	320.00	Royalty; Working Interest: Amoco Production Co., ORRI;		12.500000%	12.500000%	6.666667%
				Total	100.000000%	100.000000%	
<u>TRACT 19</u>							
Fee	<u>T-30-N, R-5-W</u> Sec. 7: S/2SW/4, NE/4SW/4, SW/4SE/4	160.00	Royalty; Working Interest: Amoco Production Company, ORRI;		12.500000%	12.500000%	3.333333%
				Total	100.000000%	100.000000%	
<u>TRACT 20</u>							
Fee	<u>T-30-N, R-5-W</u> Sec. 17: NE/4	160.00	Royalty; Working Interest: Amoco Production Co., ORRI;		12.500000%	12.500000%	3.333333%
				Total	100.000000%	100.000000%	
<u>TRACT 22</u>							
Fee	<u>T-30-N, R-5-W</u> Sec. 21: NW/4	160.00	Royalty; Working Interest: Amoco Production Co., ORRI;		12.500000%	12.500000%	3.333333%
				Total	100.000000%	100.000000%	

SCHEDULE V
FOURTH EXPANDED PARTICIPATING AREA FOR THE DAKOTA FORMATION
SAN JUAN 30-5 UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	OWNERSHIP	DRILLING BLOCK	PERCENTAGE	PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
<u>TRACT 25</u>							
Fee	<u>T-30-N, R-5-W</u> Sec. 8: S/2SW/4 Sec. 17: N/2NW/4 (except 4 acres out of NW/4NW/4)	156.00	Royalty; Working Interest: Amoco Production Co.; Phillips Petroleum Co.; ORRI;		12.500000%	12.500000%	3.250000%
					43.750000%	43.750000%	
					43.750000%	43.750000%	
					0.000000%	0.000000%	
					<u>100.000000%</u>	<u>100.000000%</u>	
<u>TRACT 25-A</u>							
Fee	<u>T-30-N, R-5-W</u> A tract of land 1200' long by 450' wide containing 4 acres, more or less, lying in NW/4 of Sec. 17	4.00	Royalty; Working Interest: Amoco Production Co.; Phillips Petroleum Co.; ORRI;		12.500000%	12.500000%	0.083333%
					43.750000%	43.750000%	
					43.750000%	43.750000%	
					0.000000%	0.000000%	
					<u>100.000000%</u>	<u>100.000000%</u>	
			Total				

SCHEDULE V
FOURTH EXPANDED PARTICIPATING AREA FOR THE DAKOTA FORMATION
SAN JUAN 30-5 UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	OWNERSHIP	DRILLING BLOCK	PERCENTAGE	PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
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R E C A P I T U L A T I O N

Description of Lands in Participating Area:

Township 30 North, Range 5 West, N.M.P.M.
Sections 7, 8, 9, 16, 17, 21: All
Sections 18, 20: E/2
Section 22: W/2

Total Number of Acres in Participating Area: 4,800.00
Total Number of Acres Committed in Participating Area: 4,800.00

SCHEDULE VI
FIFTH EXPANDED PARTICIPATING AREA FOR THE DAKOTA FORMATION
SAN JUAN 30-5 UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	OWNERSHIP	DRILLING BLOCK	PERCENTAGE	PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
<u>TRACT 4</u>							
SF-078739	<u>T-30-N, R-5-W</u> Sec. 21: E/2, SW/4 Sec. 22: W/2	800.00	Royalty; Working Interest: Phillips Petroleum Co., ORRI;		12.500000%	12.500000%	13.157895%
			Total		100.000000%	100.000000%	
<u>TRACT 5</u>							
SF-078740	<u>T-30-N, R-5-W</u> Sec. 20: E/2	320.00	Royalty; Working Interest: Phillips Petroleum Co., ORRI;		12.500000%	12.500000%	5.263158%
			Total		100.000000%	100.000000%	
<u>TRACT 6</u>							
SF-078994	<u>T-30-N, R-5-W</u> Sec. 15: SW/4, SW/4NW/4 Sec. 17: SW/4, S/2NW/4 Sec. 18: E/2	760.00	Royalty; Working Interest: Phillips Petroleum Co., ORRI;		12.500000%	12.500000%	12.500000%
			Total		100.000000%	100.000000%	

SCHEDULE VI
FIFTH EXPANDED PARTICIPATING AREA FOR THE DAKOTA FORMATION
SAN JUAN 30-5 UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	OWNERSHIP	DRILLING BLOCK	PERCENTAGE	PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
<u>TRACT 7</u>							
SF- 078997	T-30N, R-5-W 2,400.00		Royalty; Working Interest: Phillips Petroleum Co., ORRI:		12.500000%	12.500000%	39.473684%
	Sec. 6: S/2SE/4, SE/4SW/4				82.500000%	82.500000%	
	Sec. 7: N/2, NW/4SW/4, N/2SE/4, SE/4SE/4			Total	<u>5.000000%</u> 100.000000%	<u>5.000000%</u> 100.000000%	
	Sec. 8: NW/4, N/2SW/4						
	Sec. 9: A11						
	Sec. 10: N/2						
	Sec. 15: E/2, E/2NW/4, NW/4NW/4						
	Sec. 17: SE/4						
<u>TRACT 11</u>							
SF-080066	T-30-N, R-5-W 200.00		Royalty; Working Interest: Phillips Petroleum Co., ORRI:		12.500000%	12.500000%	3.289474%
	Sec. 6: N/2S/2, SW/4SW/4				82.500000%	82.500000%	
				Total	<u>5.000000%</u> 100.000000%	<u>5.000000%</u> 100.000000%	
<u>TRACT 17</u>							
State of NM	T-30-N, R-5-W 160.00		Royalty; Working Interest: Amoco Production Co., ORRI:		12.500000%	12.500000%	2.631579%
E-347-7	Sec. 16: NE/4				87.500000%	87.500000%	
				Total	<u>0.000000%</u> 100.000000%	<u>0.000000%</u> 100.000000%	

Effective March 1, 1981

SCHEDULE VI
FIFTH EXPANDED PARTICIPATING AREA FOR THE DAKOTA FORMATION
SAN JUAN 30-5 UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	OWNERSHIP	DRILLING BLOCK	PERCENTAGE	PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
<u>TRACT 17-A</u>							
State of NM E-347-8	<u>T-30-N, R-5-W</u> Sec. 16: N/2NW/4	80.00	Royalty; Working Interest: Getty Oil Co., ORRI;		12.500000%	12.500000%	1.315789%
			Total		82.750000% 4.750000% <u>100.000000%</u>	82.750000% 4.750000% <u>100.000000%</u>	
<u>TRACT 17-D</u>							
State of NM E-347-17	<u>T-30-N, R-5-W</u> Sec. 16: S/2NW/4	80.00	Royalty; Working Interest: Amoco ORRI;		12.500000%	12.500000%	1.315789%
			Total		82.500000% 5.000000% <u>100.000000%</u>	82.500000% 5.000000% <u>100.000000%</u>	
<u>TRACT 17-F</u>							
State of NM E-347-26	<u>T-30-N, R-5-W</u> Sec. 16: S/2	320.00	Royalty; Working Interest: Phillips Petroleum Co., ORRI;		12.500000%	12.500000%	5.263158%
			Total		82.500000% 5.000000% <u>100.000000%</u>	82.500000% 5.000000% <u>100.000000%</u>	
<u>TRACT 18</u>							
Fee	<u>T-30-N, R-5-W</u> Sec. 8: E/2	320.00	Royalty; Working Interest: Amoco Production Co., ORRI;		12.500000%	12.500000%	5.263158%
			Total		87.500000% 0.000000% <u>100.000000%</u>	87.500000% 0.000000% <u>100.000000%</u>	

SCHEDULE VI
FIFTH EXPANDED PARTICIPATING AREA FOR THE DAKOTA FORMATION
SAN JUAN 30-5 UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	OWNERSHIP	DRILLING BLOCK	PERCENTAGE	PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
<u>TRACT 19</u>							
Fee	<u>T-30-N, R-5-W</u> Sec. 7: S/2SW/4, NE/4SW/4, SW/4SE/4	160.00	Royalty; Working Interest: Amoco Production Company, ORRI;		12.500000%	12.500000%	2.631579%
			Total		<u>100.000000%</u>	<u>100.000000%</u>	
<u>TRACT 20</u>							
Fee	<u>T-30-N, R-5-W</u> Sec. 17: NE/4	160.00	Royalty; Working Interest: Amoco Production Co., ORRI;		12.500000%	12.500000%	2.631579%
			Total		<u>100.000000%</u>	<u>100.000000%</u>	
<u>TRACT 22</u>							
Fee	<u>T-30-N, R-5-W</u> Sec. 21: NW/4	160.00	Royalty; Working Interest: Amoco Production Co., ORRI;		12.500000%	12.500000%	2.631579%
			Total		<u>100.000000%</u>	<u>100.000000%</u>	
<u>TRACT 25</u>							
Fee	<u>T-30-N, R-5-W</u> Sec. 8: S/2SW/4 Sec. 17: N/2NW/4 (except 4 acres out of NW/4NW/4)	156.00	Royalty; Working Interest: Amoco Production Co., Phillips Petroleum Co., ORRI;		12.500000%	12.500000%	2.565789%
			Total		<u>100.000000%</u>	<u>100.000000%</u>	

SCHEDULE VI
FIFTH EXPANDED PARTICIPATING AREA FOR THE DAKOTA FORMATION
SAN JUAN 30-5 UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	OWNERSHIP	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
					PERCENTAGE		
<u>TRACT 25-A</u>							
Fee	T-30-N, R-5-W <u>A tract of land</u> 1200' long by 450' wide containing 4 acres, more or less, lying in NW/4 of Sec. 17	4.00	Royalty; Working Interest: Amoco Production Co.; Phillips Petroleum Co.; ORRI;		12.500000%	12.500000%	0.065790%
			Total		100.000000%	100.000000%	

SCHEDULE VI
FIFTH EXPANDED PARTICIPATING AREA FOR THE DAKOTA FORMATION
SAN JUAN 30-5 UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	OWNERSHIP	DRILLING BLOCK	PERCENTAGE	PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
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R E C A P I T U L A T I O N

Description of Lands in Participating Area:

Township 30 North, Range 5 West, N.M.P.M.
Section 6: S/2
Sections 7, 8, 9, 15, 16, 17, 21: All
Section 10: N/2
Sections 18, 20: E/2
Section 22: W/2

Total Number of Acres in Participating Area: 6,080.00
Total Number of Acres Committed in Participating Area: 6,080.00

SCHEDULE VII
SIXTH EXPANDED PARTICIPATING AREA FOR THE DAKOTA FORMATION
SAN JUAN 30-5 UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	OWNERSHIP	DRILLING BLOCK	PERCENTAGE	PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
<u>TRACT 4</u>							
SF-078739	<u>T-30-N, R-5-W</u> Sec. 21: E/2, SW/4 Sec. 22: W/2	800.00	Royalty; Working Interest: Phillips Petroleum Co., ORRI;		12.500000%	12.500000%	12.500000%
			Total		100.000000%	100.000000%	
<u>TRACT 5</u>							
SF-078740	<u>T-30-N, R-5-W</u> Sec. 20: E/2	320.00	Royalty; Working Interest: Phillips Petroleum Co., ORRI;		12.500000%	12.500000%	5.000000%
			Total		100.000000%	100.000000%	
<u>TRACT 6</u>							
SF-078994	<u>T-30-N, R-5-W</u> Sec. 15: SW/4, SW/4NW/4 Sec. 17: SW/4, S/2NW/4 Sec. 18: E/2	760.00	Royalty; Working Interest: Phillips Petroleum Co., ORRI;		12.500000%	12.500000%	11.875000%
			Total		100.000000%	100.000000%	

SCHEDULE VII
SIXTH EXPANDED PARTICIPATING AREA FOR THE DAKOTA FORMATION
SAN JUAN 30-5 UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	OWNERSHIP	DRILLING BLOCK	PERCENTAGE	PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
<u>TRACT 7</u>							
SF- 078997	T-30N, R-5-W	2,400.00	Royalty; Working Interest: Phillips Petroleum Co., ORRI:		12.500000%	12.500000%	42.500000%
	Sec. 6: S/2SE/4, SE/4SW/4				82.500000%	82.500000%	
	Sec. 7: N/2, NW/4SW/4, N/2SE/4, SE/4SE/4			Total	100.000000%	100.000000%	
	Sec. 8: NW/4, N/2SW/4						
	Sec. 9: A11						
	Sec. 10: A11						
	Sec. 15: E/2, E/2NW/4, NW/4NW/4						
	Sec. 17: SE/4						
<u>TRACT 11</u>							
SF-080066	T-30-N, R-5-W	200.00	Royalty; Working Interest: Phillips Petroleum Co., ORRI:		12.500000%	12.500000%	3.125000%
	Sec. 6: N/2S/2, SW/4SW/4			Total	100.000000%	100.000000%	
<u>TRACT 17</u>							
State of NM	T-30-N, R-5-W	160.00	Royalty; Working Interest: Amoco Production Co., ORRI:		12.500000%	12.500000%	2.500000%
E-347-7	Sec. 16: NE/4			Total	100.000000%	100.000000%	

SCHEDULE VII
SIXTH EXPANDED PARTICIPATING AREA FOR THE DAKOTA FORMATION
SAN JUAN 30-5 UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	OWNERSHIP	DRILLING BLOCK	PERCENTAGE	PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
<u>TRACT 17-A</u>							
State of NM E-347-8	T-30-N, R-5-W Sec. 16: N/2NW/4	80.00	Royalty; Working Interest: Getty Oil Co., ORRI;		12.500000%	12.500000%	1.250000%
				Total	100.000000%	100.000000%	
<u>TRACT 17-D</u>							
State of NM E-347-17	T-30-N, R-5-W Sec. 16: S/2NW/4	80.00	Royalty; Working Interest: Amoco ORRI;		12.500000%	12.500000%	1.250000%
				Total	100.000000%	100.000000%	
<u>TRACT 17-F</u>							
State of NM E-347-26	T-30-N, R-5-W Sec. 16: S/2	320.00	Royalty; Working Interest: Phillips Petroleum Co., ORRI;		12.500000%	12.500000%	5.000000%
				Total	100.000000%	100.000000%	
<u>TRACT 18</u>							
Fee	T-30-N, R-5-W Sec. 8: E/2	320.00	Royalty; Working Interest: Amoco Production Co., ORRI;		12.500000%	12.500000%	5.000000%
				Total	100.000000%	100.000000%	

SCHEDULE VII
SIXTH EXPANDED PARTICIPATING AREA FOR THE DAKOTA FORMATION
SAN JUAN 30-5 UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	OWNERSHIP	DRILLING BLOCK	PERCENTAGE	PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
<u>TRACT 19</u>							
Fee	<u>T-30-N, R-5-W</u> Sec. 7: S/2SW/4, NE/4SW/4, SW/4SE/4	160.00	Royalty; Working Interest: Amoco Production Company, ORRI;		12.500000%	12.500000%	2.500000%
			Total		<u>100.000000%</u>	<u>100.000000%</u>	
<u>TRACT 20</u>							
Fee	<u>T-30-N, R-5-W</u> Sec. 17: NE/4	160.00	Royalty; Working Interest: Amoco Production Co., ORRI;		12.500000%	12.500000%	2.500000%
			Total		<u>100.000000%</u>	<u>100.000000%</u>	
<u>TRACT 22</u>							
Fee	<u>T-30-N, R-5-W</u> Sec. 21: NW/4	160.00	Royalty; Working Interest: Amoco Production Co., ORRI;		12.500000%	12.500000%	2.500000%
			Total		<u>100.000000%</u>	<u>100.000000%</u>	
<u>TRACT 25</u>							
Fee	<u>T-30-N, R-5-W</u> Sec. 8: S/2SW/4 Sec. 17: N/2NW/4 (except 4 acres out of NW/4NW/4)	156.00	Royalty; Working Interest: Amoco Production Co.; Phillips Petroleum Co.; ORRI;		12.500000%	12.500000%	2.437500%
			Total		<u>100.000000%</u>	<u>100.000000%</u>	

SCHEDULE VII
SIXTH EXPANDED PARTICIPATING AREA FOR THE DAKOTA FORMATION
SAN JUAN 30-5 UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	OWNERSHIP	DRILLING BLOCK	PERCENTAGE	PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
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R E C A P I T U L A T I O N

Description of Lands in Participating Area:

Township 30 North, Range 5 West, N.M.P.M.
Section 6: S/2
Sections 7, 8, 9, 10, 15, 16, 17, 21: A11
Sections 18, 20: E/2
Section 22: W/2

Total Number of Acres in Participating Area: 6,400.00
Total Number of Acres Committed in Participating Area: 6,400.00