



**PHILLIPS PETROLEUM COMPANY**

FARMINGTON, NEW MEXICO 87401  
5525 HWY. 64 NBU 3004

November 24, 1998

Bureau of Land Management (3 copies)  
Farmington Resource Area  
1235 La Plata Highway  
Farmington, New Mexico 87401

Commissioner of Public Lands (2 copies)  
State of New Mexico  
Attn: Mr. Ray Powell  
P. O. Box 1148  
Santa Fe, New Mexico 87504-1148

Oil Conservation Division (2 copies)  
State of New Mexico  
Attn: Ms. Lori Wrottenberry  
2040 South Pacheco  
Santa Fe, New Mexico 87505

**RE: SAN JUAN 30-5 UNIT  
#14-08-001-346  
SIXTEENTH EXPANSION  
SEVENTEENTH EXPANSION  
DAKOTA PARTICIPATING AREA  
G. F. 5397, LCN 650262**

Ladies & Gentlemen:

Pursuant to Section 11(b) of the San Juan 30-5 Unit Agreement #14-08-001-346, approved November 7, 1952, Phillips Petroleum Company, as Operator, determined on the dates indicated below that the wells listed below are capable to produce unitized substances in paying quantities from the Dakota Formation. Therefore, this application for the Sixteenth and Seventeenth Expansions of the Participating Area for the Dakota Formation is respectfully submitted for your review and approval as follows:

SIXTEENTH EXPANDED PARTICIPATING AREA  
EFFECTIVE AUGUST 1, 1997

<u>Drilling Block</u>	<u>New Acres</u>	<u>Well Number</u>
W/2 Section 20-30N-5W	320.00	27M

The San Juan 30-5 Unit #27M well was completed on July 25, 1997 and the Dakota Formation was tested on July 9, 1997, with cumulative gas production of 74,635 MCF through April 30, 1998. The spacing unit for this well is described as the W/2 of Section 20-30N-5W, Rio Arriba County, New Mexico, containing 320.00 acres, MOL.

SEVENTEENTH EXPANDED PARTICIPATING AREA  
EFFECTIVE NOVEMBER 1, 1997

<u>Drilling Block</u>	<u>New Acres</u>	<u>Well Number</u>
E/2 Section 14-30N-5W	320.00	29A
W/2 Section 14-30N-5W	320.00	109A
W/2 Section 13-30N-5W	320.00	----

San Juan 30-5 Unit  
Sixteenth Expansion  
Seventeenth Expansion  
Dakota Participating Area  
November 24, 1998  
Page 2

The San Juan Unit #29A Well was completed on October 9, 1997, and the Dakota Formation was tested on this same date with cumulative gas production of 473,436 MCF through April 30, 1998. The spacing unit for this well is described as the E/2 of Section 14-30N-5W, Rio Arriba County, New Mexico, containing 320.00 acres, MOL.

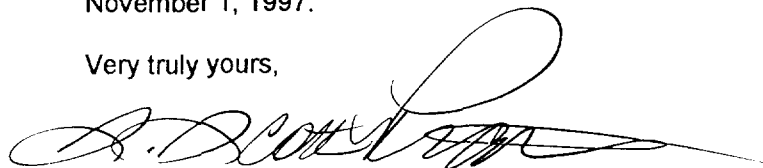
The San Juan Unit #109A Well was completed on October 10, 1997, and the Dakota formation was tested on this same date with cumulative gas production of 84,190 MCF through April 30, 1998. The spacing unit for this well is described as the W/2 of Section 14-30N-5W, Rio Arriba County, New Mexico, containing 320.00 acres, MOL.

Pursuant to Section 11(b) of the San Juan 30-5 Unit Agreement, #14-08-001-346 and as evidenced by the enclosed cross sections, the W/2 of Section 13-30N-5W can be reasonably estimated to be productive in the Dakota Formation and is included in the Participating Area.

Enclosed herewith are Schedule XVII for the Sixteenth Expanded Participating Area and Schedule XVIII for the Seventeenth Expanded Participating Area for the Dakota Formation. These Schedules describe the participating areas and indicate the percentages of unitized substances allocated to the unit tracts according to the Dakota ownership of such tracts. Also included is a map reflecting the boundaries of the Unit and the proposed Sixteenth and Seventeenth Expansions of the San Juan 30-5 Unit Dakota Participating Area.

Unless this application is disapproved or contested, the Sixteenth Expanded Participating Area is effective as of August 1, 1997 and the Seventeenth Expanded Participating Area is effective as of November 1, 1997.

Very truly yours,



S. Scott Prather, CPL  
Senior Landman  
San Juan Basin  
(505)599-3410

The signatory approvals below are for the Sixteenth and Seventeenth Expanded Participating Area of the Dakota Formation in the San Juan 30-5 Unit #14-08-001-346.

Approved \_\_\_\_\_  
Assistant District Manager, Minerals  
Bureau of Land Management  
Subject to like approval by the  
Commissioner of Public Lands and the  
Oil Conservation Division

Date \_\_\_\_\_

Approved \_\_\_\_\_  
Commissioner of Public Lands  
Subject to like approval by the  
Bureau of Land Management  
and the Oil Conservation Division

Date \_\_\_\_\_

Approved  \_\_\_\_\_  
Oil Conservation Division  
Subject to like approval by the  
Bureau of Land Management  
and the Commissioner of Public Lands

Date 12/8/98

cc: W. D. Jaap (r)supervisors  
San Juan 30-5 Unit Owners  
J. L. Mathis (r) G. F. 5397

**PHILLIPS PETROLEUM COMPANY  
SCHEDULE XVII  
SIXTEENTH EXPANDED PARTICIPATING AREA FOR THE DAKOTA FORMATION  
SAN JUAN 30-5 UNIT AREA**

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK OWNERSHIP	PERCENTAGE	PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
<b><u>TRACT 2</u></b>						
NM-012332	<u>T-30-N, R-5-W</u> Sec. 35: All	640.00	Royalty	12.500000%	12.500000%	5.499869%
			Working Interest			
			Phillips Petroleum Co.	83.000000%	83.000000%	
			ORRI	<u>4.500000%</u>	<u>4.500000%</u>	
			Total	<b>100.000000%</b>	<b>100.000000%</b>	
<b><u>TRACT 3</u></b>						
SF-078738	<u>T-30-N, R-5-W</u> Sec. 23: W/2 Sec. 26: E/2, NE/4SW/4 Sec. 27: NE/4, W/2SE/4, SE/4SE/4	1120.00	Royalty	12.500000%	12.500000%	9.624771%
			Working Interest			
			Phillips Petroleum Co.	82.500000%	82.500000%	
			ORRI	<u>5.000000%</u>	<u>5.000000%</u>	
			Total	<b>100.000000%</b>	<b>100.000000%</b>	
	<u>T-30-N, R-5-W</u> Sec. 26: NW/4		Royalty	12.500000%	12.500000%	
			Working Interest			
			Phillips Petroleum Co.	84.000000%	84.000000%	
			ORRI	<u>3.500000%</u>	<u>3.500000%</u>	
			Total	<b>100.000000%</b>	<b>100.000000%</b>	
<b><u>TRACT 4</u></b>						
SF-078739	<u>T-30-N, R-5-W</u> Sec. 21: E/2, SW/4 Sec. 22: E/2	1360.00	Royalty	12.500000%	12.500000%	11.687222%
			Working Interest			
			Phillips Petroleum Co.	84.500000%	84.500000%	
			ORRI	<u>3.000000%</u>	<u>3.000000%</u>	
			Total	<b>100.000000%</b>	<b>100.000000%</b>	
	<u>T-30-N, R-5-W</u> Sec. 22: W/2		Royalty	12.500000%	12.500000%	
			Working Interest			
			Phillips Petroleum Co.	85.000000%	85.000000%	
			ORRI	<u>2.500000%</u>	<u>2.500000%</u>	
			Total	<b>100.000000%</b>	<b>100.000000%</b>	
	<u>T-30-N, R-5-W</u> Sec. 28: W/2NE/4, SE/4		Royalty	12.500000%	12.500000%	
			Working Interest			
			Phillips Petroleum Co.	86.500000%	86.500000%	
			ORRI	<u>1.000000%</u>	<u>1.000000%</u>	
			Total	<b>100.000000%</b>	<b>100.000000%</b>	

**PHILLIPS PETROLEUM COMPANY  
SCHEDULE XVII  
SIXTEENTH EXPANDED PARTICIPATING AREA FOR THE DAKOTA FORMATION  
SAN JUAN 30-5 UNIT AREA**

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK OWNERSHIP	PERCENTAGE	PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
<b><u>TRACT 5</u></b>						
SF-078740	T-30-N, R-5-W Sec. 19: E/2 Sec. 20: E/2 Sec. 29: N/2NW/4, SW/4NW/4	1280.00	Royalty	12.500000%	12.500000%	10.999739%
			Working Interest			
			Phillips Petroleum Co.	82.500000%	82.500000%	
			ORRI	5.000000%	5.000000%	
			Total	100.000000%	100.000000%	
	T-30-N, R-5-W Sec. 29: NE/4, SE/4NW/4		Royalty	12.500000%	12.500000%	
			Working Interest			
			Phillips Petroleum Co.	83.000000%	83.000000%	
			ORRI	4.500000%	4.500000%	
			Total	100.000000%	100.000000%	
	T-30-N, R-5-W Sec. 20: W/2		Royalty	12.500000%	12.500000%	
			Working Interest			
			Burlington Res. O&G	82.500000%	82.500000%	
			ORRI	5.000000%	5.000000%	
			Total	100.000000%	100.000000%	
<b><u>TRACT 6</u></b>						
SF-078994	T-30-N, R-5-W Sec. 15: S W/4 SW/4NW/4 Sec. 17: SW/4, S/2NW/4 Sec. 18: All	1080.00	Royalty	12.500000%	12.500000%	9.281030%
			Working Interest			
			Phillips Petroleum Co.	82.500000%	82.500000%	
			ORRI	5.000000%	5.000000%	
			Total	100.000000%	100.000000%	
<b><u>TRACT 7</u></b>						
SF-078997	T-30-N, R-5-W Sec. 6: S/2SE/4, SE/4SW/4 Sec. 7: N/2, NW/4SW/4, N/2SE/4, SE/4SE/4 Sec. 8: NW/4, N/2SW/4 Sec. 9: All Sec. 10: All Sec. 15: E/2, E/2NW/4, NW/4NW/4	2,560.00	Royalty	12.500000%	12.500000%	21.999479%
			Working Interest			
			Phillips Petroleum Co.	82.500000%	82.500000%	
			ORRI	5.000000%	5.000000%	
			Total	100.000000%	100.000000%	
<b><u>TRACT 11</u></b>						
SF-080066	T-30-N, R-5-W Sec. 5: All Sec. 6: Lots 8, 9, 10, 11, S/2N/2, N/2S/2, SW/4SW/4	1158.12	Royalty	12.500000%	12.500000%	9.952357%
			Working Interest			
			Phillips Petroleum Co.	82.500000%	82.500000%	
			ORRI	5.000000%	5.000000%	
			Total	100.000000%	100.000000%	

**PHILLIPS PETROLEUM COMPANY  
SCHEDULE XVII  
SIXTEENTH EXPANDED PARTICIPATING AREA FOR THE DAKOTA FORMATION  
SAN JUAN 30-5 UNIT AREA**

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK OWNERSHIP	PERCENTAGE	PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
<b><u>TRACT 15</u></b>						
SF-080538	<u>T-30-N, R-5-W</u> Sec. 13: Lots 1,2,3,4, W/2E/2	217.76	Royalty Working Interest Burlington Res. O&G ORRI Total	12.500000% 83.125000% <u>4.375000%</u> <b>100.000000%</b>	12.500000% 83.125000% <u>4.375000%</u> <b>100.000000%</b>	1.871331%
<b><u>TRACT 17</u></b>						
E-347-41	<u>T-30-N, R-5-W</u> Sec. 16: NE/4	160.00	Royalty Working Interest Amoco Production Co. ORRI Total	12.500000% 87.500000% <u>00.000000%</u> <b>100.000000%</b>	12.500000% 87.500000% <u>00.000000%</u> <b>100.000000%</b>	1.374967%
<b><u>TRACT 17-A</u></b>						
E-347-40	<u>T-30-N, R-5-W</u> Sec. 16: N/2NW/4	80.00	Royalty Working Interest Burlington Res. O&G ORRI Total	12.500000% 82.750000% <u>4.750000%</u> <b>100.000000%</b>	12.500000% 82.750000% <u>4.750000%</u> <b>100.000000%</b>	0.687484%
<b><u>TRACT 17-D</u></b>						
E-347-41	<u>T-30-N, R-5-W</u> Sec. 16: S/2NW/4	80.00	Royalty Working Interest Amoco Production Co. ORRI Total	12.500000% 82.500000% <u>5.000000%</u> <b>100.000000%</b>	12.500000% 82.500000% <u>5.000000%</u> <b>100.000000%</b>	0.687484%
<b><u>TRACT 17-F</u></b>						
E-347-39	<u>T-30-N, R-5-W</u> Sec. 16: S/2 Sec. 36: Lots 1, 2, 3, 4, W/2E/2	540.76	Royalty Working Interest Phillips Petroleum Co. ORRI Total	12.500000% 82.500000% <u>5.000000%</u> <b>100.000000%</b>	12.500000% 82.500000% <u>5.000000%</u> <b>100.000000%</b>	4.647046%

**PHILLIPS PETROLEUM COMPANY  
SCHEDULE XVII  
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SAN JUAN 30-5 UNIT AREA**

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK OWNERSHIP	PERCENTAGE	PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
<b><u>TRACT 18</u></b>						
Fee	<u>T-30-N, R-5-W</u> Sec. 8: E/2	320.00	Royalty Working Interest Amoco Production Co. ORRI Total	12.500000% 87.500000% <u>00.000000%</u> <b>100.000000%</b>	12.500000% 87.500000% <u>00.000000%</u> <b>100.000000%</b>	2.749935%
<b><u>TRACT 19</u></b>						
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 Co. ORRI Total	12.500000% 87.500000% <u>00.000000%</u> <b>100.000000%</b>	12.500000% 87.500000% <u>00.000000%</u> <b>100.000000%</b>	1.374967%
<b><u>TRACT 20</u></b>						
Fee	<u>T-30-N, R-5-W</u> Sec. 17: NE/4	160.00	Royalty Working Interest Amoco Production Co. ORRI Total	12.500000% 87.500000% <u>00.000000%</u> <b>100.000000%</b>	12.500000% 87.500000% <u>00.000000%</u> <b>100.000000%</b>	1.374967%
<b><u>TRACT 21</u></b>						
Fee	<u>T-30-N, R-5-W</u> Sec. 17: SE/4	160.00	Royalty Working Interest Amoco Production Co. ORRI Total	12.500000% 87.500000% <u>00.000000%</u> <b>100.000000%</b>	12.500000% 87.500000% <u>00.000000%</u> <b>100.000000%</b>	1.374967%
<b><u>TRACT 22</u></b>						
Fee	<u>T-30-N, R-5-W</u> Sec. 21: NW/4	160.00	Royalty Working Interest Amoco Production Co. ORRI Total	12.500000% 87.500000% <u>00.000000%</u> <b>100.000000%</b>	12.500000% 87.500000% <u>00.000000%</u> <b>100.000000%</b>	1.374967%

**PHILLIPS PETROLEUM COMPANY  
SCHEDULE XVII  
SIXTEENTH EXPANDED PARTICIPATING AREA FOR THE DAKOTA FORMATION  
SAN JUAN 30-5 UNIT AREA**

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK OWNERSHIP	PERCENTAGE	PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
<b><u>TRACT23-A</u></b>						
Fee	<u>T-30-N, R-5-W</u> Sec. 28: E/2NE/4	80.00	Royalty Working Interest Amoco Production Co. ORRI Total	12.500000%  87.500000% <u>00.000000%</u> <b>100.000000%</b>	12.500000%  87.500000% <u>00.000000%</u> <b>100.000000%</b>	0.687484%
<b><u>TRACT 24</u></b>						
Fee	<u>T-30-N, R-5-W</u> Sec. 26: S/2SW/4, NW/4SW/4 Sec. 27: NE/4SE/4	160.00	Royalty Working Interest Amoco Production Co. ORRI Total	12.500000%  87.500000% <u>00.000000%</u> <b>100.000000%</b>	12.500000%  87.500000% <u>00.000000%</u> <b>100.000000%</b>	1.374967%
<b><u>TRACT 25</u></b>						
Fee	<u>T-30-N, R-5-W</u> Sec. 8: S/2SW/4 Sec. 17: N/2NW/4 (less the 4 acres in NW/4NW/4)	156.00	Royalty Working Interest Amoco Production Co. Phillips Petroleum Co. ORRI Total	12.500000%  43.750000% 43.750000% <u>00.000000%</u> <b>100.000000%</b>	12.500000%  43.750000% 43.750000% <u>00.000000%</u> <b>100.000000%</b>	1.340593%
<b><u>TRACT 25-A</u></b>						
Fee	<u>T-30-N, R-5-W</u> Sec. 17: a tract of land 1200' long by 450' wide in NW/4NW/4	4.00	Royalty Working Interest Amoco Production Co. Phillips Petroleum Co. ORRI Total	12.500000%  43.750000% 43.750000% <u>00.000000%</u> <b>100.000000%</b>	12.500000%  43.750000% 43.750000% <u>00.000000%</u> <b>100.000000%</b>	0.034374%



**PHILLIPS PETROLEUM COMPANY  
SCHEDULE XVII  
SIXTEENTH EXPANDED PARTICIPATING AREA FOR THE DAKOTA FORMATION  
SAN JUAN 30-5 UNIT AREA**

**RECAPITULATION**

Township 30 North, Range 5 West, N. M. P. M.

Sections 5, 6, 7, 8, 9, 10, 15, 16, 17, 18, 21, 22, 26, 35: All

Sections 13, 19, 20, 27, 28: E/2

Section 20, 23: W/2

Section 29: N/2

Section 36: Lots 1, 2, 3, 4, W/2E/2

Total Number of Acres in Participating Area: 11636.64

Total Number of Acres Committed in Participating Area: 11636.64

**PHILLIPS PETROLEUM COMPANY  
SCHEDULE XVIII  
SEVENTEENTH EXPANDED PARTICIPATING AREA FOR THE DAKOTA FORMATION  
SAN JUAN 30-5 UNIT AREA**

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK OWNERSHIP	PERCENTAGE	PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
<b><u>TRACT 2</u></b>						
NM-012332	<u>T-30-N, R-5-W</u> Sec. 35: All	640.00	Royalty	12.500000%	12.500000%	5.080720%
			Working Interest			
			Phillips Petroleum Co.	83.000000%	83.000000%	
			ORRI	<u>4.500000%</u>	<u>4.500000%</u>	
			Total	<b>100.000000%</b>	<b>100.000000%</b>	
<b><u>TRACT 3</u></b>						
SF-078738	<u>T-30-N, R-5-W</u> Sec. 23: W/2 Sec. 26: E/2, NE/4SW/4 Sec. 27: NE/4, W/2SE/4, SE/4SE/4	1120.00	Royalty	12.500000%	12.500000%	8.891260%
			Working Interest			
			Phillips Petroleum Co.	82.500000%	82.500000%	
			ORRI	<u>5.000000%</u>	<u>5.000000%</u>	
			Total	<b>100.000000%</b>	<b>100.000000%</b>	
	<u>T-30-N, R-5-W</u> Sec. 26: NW/4		Royalty	12.500000%	12.500000%	
			Working Interest			
			Phillips Petroleum Co.	84.000000%	84.000000%	
			ORRI	<u>3.500000%</u>	<u>3.500000%</u>	
			Total	<b>100.000000%</b>	<b>100.000000%</b>	
<b><u>TRACT 4</u></b>						
SF-078739	<u>T-30-N, R-5-W</u> Sec. 21: E/2, SW/4 Sec. 22: E/2	1360.00	Royalty	12.500000%	12.500000%	10.796530%
			Working Interest			
			Phillips Petroleum Co.	84.500000%	84.500000%	
			ORRI	<u>3.000000%</u>	<u>3.000000%</u>	
			Total	<b>100.000000%</b>	<b>100.000000%</b>	
	<u>T-30-N, R-5-W</u> Sec. 22: W/2		Royalty	12.500000%	12.500000%	
			Working Interest			
			Phillips Petroleum Co.	85.000000%	85.000000%	
			ORRI	<u>2.500000%</u>	<u>2.500000%</u>	
			Total	<b>100.000000%</b>	<b>100.000000%</b>	
	<u>T-30-N, R-5-W</u> Sec. 28: W/2NE/4, SE/4		Royalty	12.500000%	12.500000%	
			Working Interest			
			Phillips Petroleum Co.	86.500000%	86.500000%	
			ORRI	<u>1.000000%</u>	<u>1.000000%</u>	
			Total	<b>100.000000%</b>	<b>100.000000%</b>	

**PHILLIPS PETROLEUM COMPANY  
SCHEDULE XVIII  
SEVENTEENTH EXPANDED PARTICIPATING AREA FOR THE DAKOTA FORMATION  
SAN JUAN 30-5 UNIT AREA**

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK OWNERSHIP	PERCENTAGE	PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
<b><u>TRACT 5</u></b>						
SF-078740	<u>T-30-N, R-5-W</u> Sec. 19: E/2 Sec. 20: E/2 Sec. 29: N/2NW/4, SW/4NW/4	1280.00	Royalty Working Interest Phillips Petroleum Co. ORRI Total	12.500000%  82.500000% 5.000000% <b>100.000000%</b>	12.500000%  82.500000% 5.000000% <b>100.000000%</b>	10.161440%
	<u>T-30-N, R-5-W</u> Sec. 29: NE/4, SE/4NW/4		Royalty Working Interest Phillips Petroleum Co. ORRI Total	12.500000%  83.000000% 4.500000% <b>100.000000%</b>	12.500000%  83.000000% 4.500000% <b>100.000000%</b>	
	<u>T-30-N, R-5-W</u> Sec. 20: W/2		Royalty Working Interest Burlington Res. O&G ORRI Total	12.500000%  82.500000% 5.000000% <b>100.000000%</b>	12.500000%  82.500000% 5.000000% <b>100.000000%</b>	
<b><u>TRACT 6</u></b>						
SF-078994	<u>T-30-N, R-5-W</u> Sec. 15: S W/4 SW/4NW/4 Sec. 17: SW/4, S/2NW/4 Sec. 18: All	1080.00	Royalty Working Interest Phillips Petroleum Co. ORRI Total	12.500000%  82.500000% 5.000000% <b>100.000000%</b>	12.500000%  82.500000% 5.000000% <b>100.000000%</b>	8.573715%
<b><u>TRACT 7</u></b>						
SF-078997	<u>T-30-N, R-5-W</u> Sec. 6: S/2SE/4, SE/4SW/4 Sec. 7: N/2, NW/4SW/4, N/2SE/4, SE/4SE/4 Sec. 8: NW/4, N/2SW/4 Sec. 9: All Sec. 10: All Sec. 15: E/2, E/2NW/4, NW/4NW/4	2,560.00	Royalty Working Interest Phillips Petroleum Co. ORRI Total	12.500000%  82.500000% 5.000000% <b>100.000000%</b>	12.500000%  82.500000% 5.000000% <b>100.000000%</b>	20.322880%
<b><u>TRACT 11</u></b>						
SF-080066	<u>T-30-N, R-5-W</u> Sec. 5: All Sec. 6: Lots 8, 9, 10, 11, S/2N/2, N/2S/2, SW/4SW/4	1158.12	Royalty Working Interest Phillips Petroleum Co. ORRI Total	12.500000%  82.500000% 5.000000% <b>100.000000%</b>	12.500000%  82.500000% 5.000000% <b>100.000000%</b>	9.193880%

**PHILLIPS PETROLEUM COMPANY  
SCHEDULE XVIII  
SEVENTEENTH EXPANDED PARTICIPATING AREA FOR THE DAKOTA FORMATION  
SAN JUAN 30-5 UNIT AREA**

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK OWNERSHIP	PERCENTAGE	PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
<b><u>TRACT 15</u></b>						
SF-080538	<u>T-30-N, R-5-W</u> Sec. 13: Lots 1,2,3,4, W/2E/2	1177.76	Royalty	12.500000%	12.500000%	9.349795%
			Working Interest			
			Burlington Res. O&G	83.125000%	83.125000%	
			ORRI	<u>4.375000%</u>	<u>4.375000%</u>	
			Total	<b>100.000000%</b>	<b>100.000000%</b>	
	<u>T-30-N, R-5-W</u> Sec. 14: All Sec. 13: W/2		Royalty	12.500000%	12.500000%	
			Working Interest			
			Burlington Res. O&G	75.035806%	75.035806%	
			H. O. Pool Trust	3.828125%	3.828125%	
			Mar Oil & Gas	2.734375%	2.734375%	
			Thomas & Mary Dugan	1.914063%	1.914063%	
			Devon Energy	1.914063%	1.914063%	
			Corporation (Nevada)			
			Langdon D. Harrison	1.435547%	1.435547%	
			Ruth Zimmerman Trst	0.638021%	0.638021%	
			ORRI	<u>00.000000%</u>	<u>00.000000%</u>	
			Total	<b>100.000000%</b>	<b>100.000000%</b>	
<b><u>TRACT 17</u></b>						
E-347-41	<u>T-30-N, R-5-W</u> Sec. 16: NE/4	160.00	Royalty	12.500000%	12.500000%	1.270180%
			Working Interest			
			Amoco Production Co.	87.500000%	87.500000%	
			ORRI	<u>00.000000%</u>	<u>00.000000%</u>	
			Total	<b>100.000000%</b>	<b>100.000000%</b>	
<b><u>TRACT 17-A</u></b>						
E-347-40	<u>T-30-N, R-5-W</u> Sec. 16: N/2NW/4	80.00	Royalty	12.500000%	12.500000%	0.635090%
			Working Interest			
			Burlington Res. O&G	82.750000%	82.750000%	
			ORRI	<u>4.750000%</u>	<u>4.750000%</u>	
			Total	<b>100.000000%</b>	<b>100.000000%</b>	
<b><u>TRACT 17-D</u></b>						
E-347-41	<u>T-30-N, R-5-W</u> Sec. 16: S/2NW/4	80.00	Royalty	12.500000%	12.500000%	0.635090%
			Working Interest			
			Amoco Production Co.	82.500000%	82.500000%	
			ORRI	<u>5.000000%</u>	<u>5.000000%</u>	
			Total	<b>100.000000%</b>	<b>100.000000%</b>	
<b><u>TRACT 17-F</u></b>						
E-347-39	<u>T-30-N, R-5-W</u> Sec. 16: S/2 Sec. 36: Lots 1, 2, 3, 4, <u>W/2E/2</u>	540.76	Royalty	12.500000%	12.500000%	4.292891%
			Working Interest			
			Phillips Petroleum Co.	82.500000%	82.500000%	
			ORRI	<u>5.000000%</u>	<u>5.000000%</u>	
			Total	<b>100.000000%</b>	<b>100.000000%</b>	

**PHILLIPS PETROLEUM COMPANY  
SCHEDULE XVIII  
SEVENTEENTH EXPANDED PARTICIPATING AREA FOR THE DAKOTA FORMATION  
SAN JUAN 30-5 UNIT AREA**

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK OWNERSHIP	PERCENTAGE	PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
<b><u>TRACT 18</u></b>						
Fee	<u>T-30-N, R-5-W</u> Sec. 8: E/2	320.00	Royalty Working Interest Amoco Production Co. ORRI Total	12.500000%  87.500000% <u>00.000000%</u> <b>100.000000%</b>	12.500000%  87.500000% <u>00.000000%</u> <b>100.000000%</b>	2.540360%
<b><u>TRACT 19</u></b>						
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 Co. ORRI Total	12.500000%  87.500000% <u>00.000000%</u> <b>100.000000%</b>	12.500000%  87.500000% <u>00.000000%</u> <b>100.000000%</b>	1.270180%
<b><u>TRACT 20</u></b>						
Fee	<u>T-30-N, R-5-W</u> Sec. 17: NE/4	160.00	Royalty Working Interest Amoco Production Co. ORRI Total	12.500000%  87.500000% <u>00.000000%</u> <b>100.000000%</b>	12.500000%  87.500000% <u>00.000000%</u> <b>100.000000%</b>	1.270180%
<b><u>TRACT 21</u></b>						
Fee	<u>T-30-N, R-5-W</u> Sec. 17: SE/4	160.00	Royalty Working Interest Amoco Production Co. ORRI Total	12.500000%  87.500000% <u>00.000000%</u> <b>100.000000%</b>	12.500000%  87.500000% <u>00.000000%</u> <b>100.000000%</b>	1.270180%
<b><u>TRACT 22</u></b>						
Fee	<u>T-30-N, R-5-W</u> Sec. 21: NW/4	160.00	Royalty Working Interest Amoco Production Co. ORRI Total	12.500000%  87.500000% <u>00.000000%</u> <b>100.000000%</b>	12.500000%  87.500000% <u>00.000000%</u> <b>100.000000%</b>	1.270180%

**PHILLIPS PETROLEUM COMPANY  
SCHEDULE XVIII  
SEVENTEENTH EXPANDED PARTICIPATING AREA FOR THE DAKOTA FORMATION  
SAN JUAN 30-5 UNIT AREA**

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK OWNERSHIP	PERCENTAGE	PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
<b><u>TRACT 23-A</u></b>						
Fee	<u>T-30-N, R-5-W</u> Sec. 28: E/2NE/4	80.00	Royalty Working Interest Amoco Production Co. ORRI Total	12.500000%  87.500000% <u>00.000000%</u> <b>100.000000%</b>	12.500000%  87.500000% <u>00.000000%</u> <b>100.000000%</b>	0.635090%
<b><u>TRACT 24</u></b>						
Fee	<u>T-30-N, R-5-W</u> Sec. 26: S/2SW/4, NW/4SW/4 Sec. 27: NE/4SE/4	160.00	Royalty Working Interest Amoco Production Co. ORRI Total	12.500000%  87.500000% <u>00.000000%</u> <b>100.000000%</b>	12.500000%  87.500000% <u>00.000000%</u> <b>100.000000%</b>	1.270180%
<b><u>TRACT 25</u></b>						
Fee	<u>T-30-N, R-5-W</u> Sec. 8: S/2SW/4 Sec. 17: N/2NW/4 (less the 4 acres in NW/4NW/4)	156.00	Royalty Working Interest Amoco Production Co. Phillips Petroleum Co. ORRI Total	12.500000%  43.750000% 43.750000% <u>00.000000%</u> <b>100.000000%</b>	12.500000%  43.750000% 43.750000% <u>00.000000%</u> <b>100.000000%</b>	1.238425%
<b><u>TRACT 25-A</u></b>						
Fee	<u>T-30-N, R-5-W</u> Sec. 17: a tract of land 1200' long by 450' wide in NW/4NW/4	4.00	Royalty Working Interest Amoco Production Co. Phillips Petroleum Co. ORRI Total	12.500000%  43.750000% 43.750000% <u>00.000000%</u> <b>100.000000%</b>	12.500000%  43.750000% 43.750000% <u>00.000000%</u> <b>100.000000%</b>	0.031754%

**PHILLIPS PETROLEUM COMPANY  
SCHEDULE XVIII  
SEVENTEENTH EXPANDED PARTICIPATING AREA FOR THE DAKOTA FORMATION  
SAN JUAN 30-5 UNIT AREA**

**RECAPITULATION**

Township 30 North, Range 5 West, N. M. P. M.

Sections 5, 6, 7, 8, 9, 10, 13, 14, 15, 16, 17, 18, 21, 22, 26, 35: All

Sections 19, 20, 27, 28: E/2

Section 20, 23: W/2

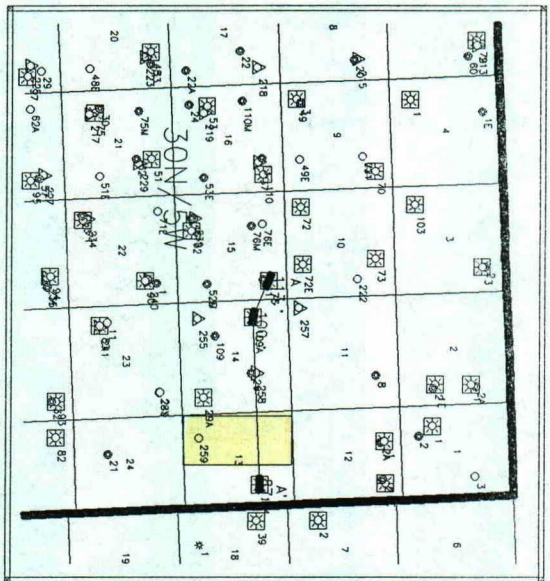
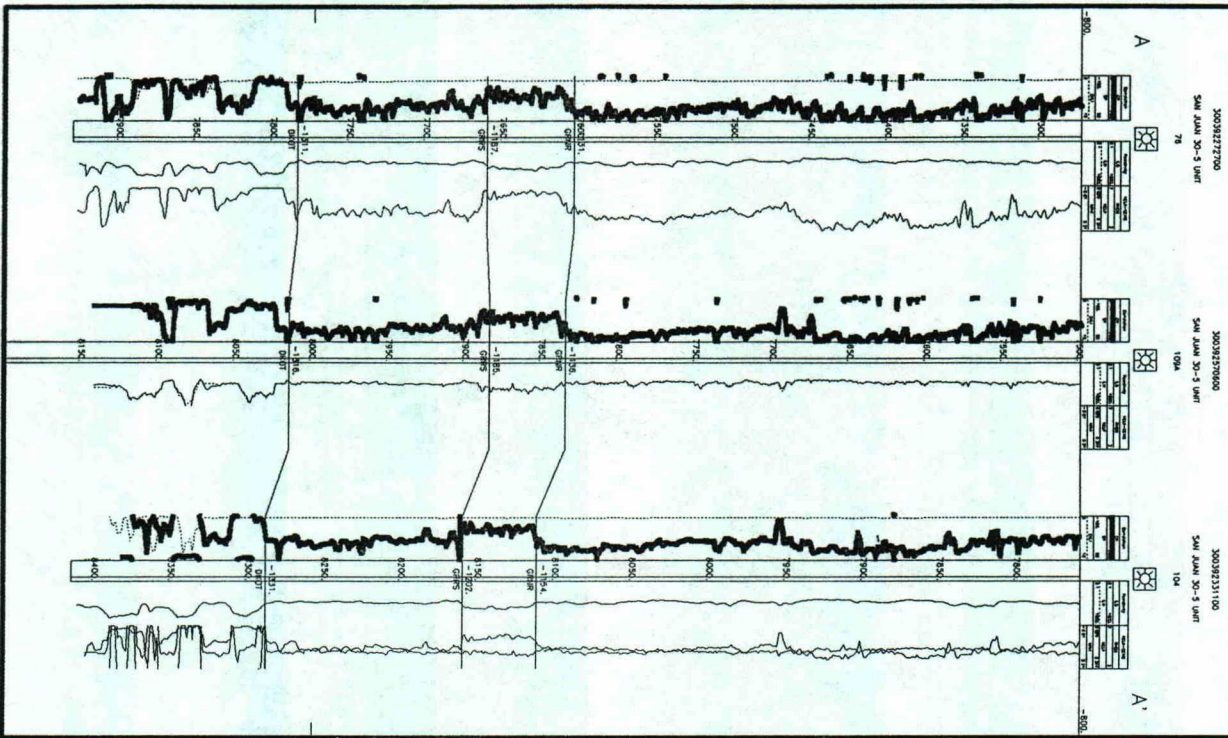
Section 29: N/2

Section 36: Lots 1, 2, 3, 4, W/2E/2

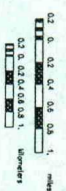
Total Number of Acres in Participating Area: 12596.64

Total Number of Acres Committed in Participating Area: 12596.64

STRUCTURAL CROSS-SECTION: EQUAL SPACE  
 Datum = Sea Level Domain = Depth  
 Scale = 1:24000 Vertical Exaggeration = 70X



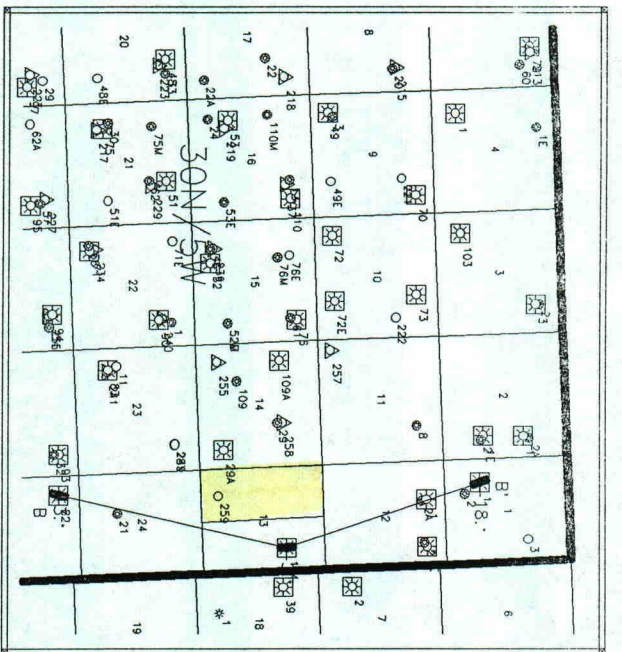
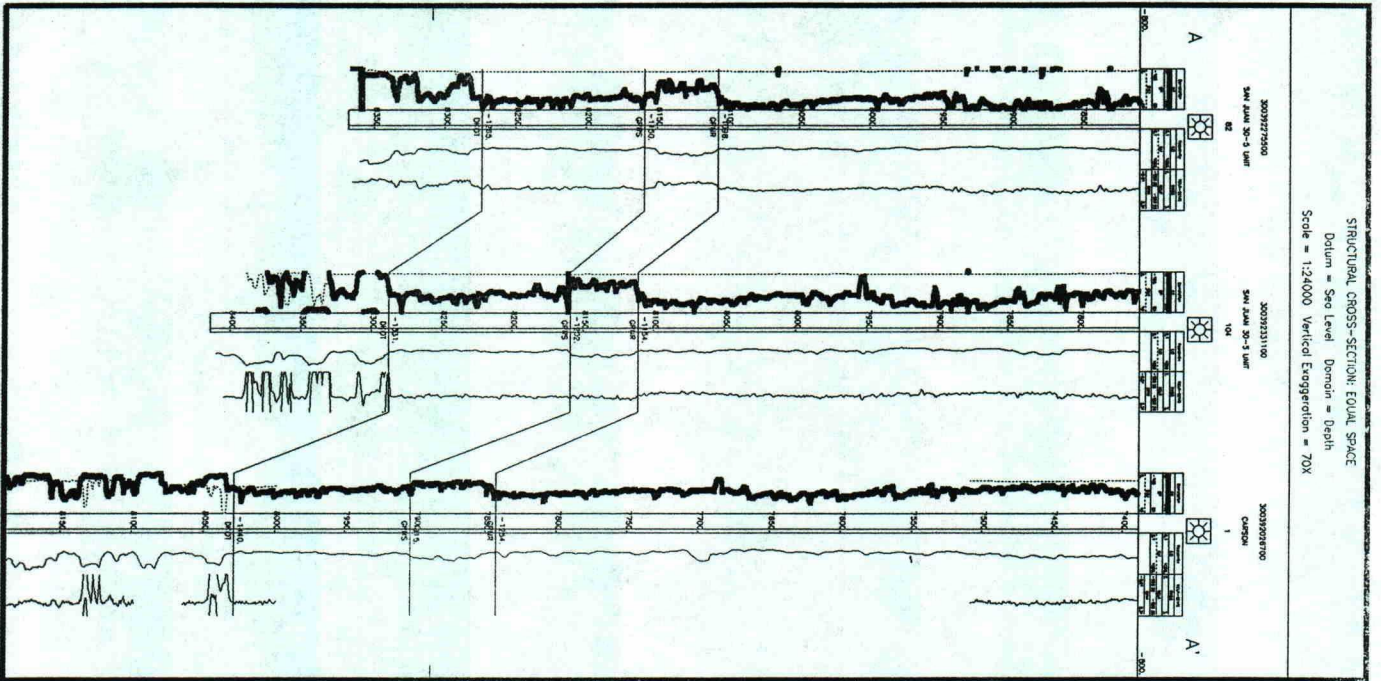
Scale 1:42781.84



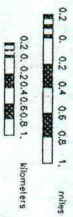
CROSS SECTION THROUGH WEST HALF  
 SECTION 13 TOWNSHIP 30 NORTH RANGE 05 WEST

Demonstrates Consistent Reservoir Character Across This Acreage.  
 Digital Well Logs Are Unavailable For The SAN JUAN 30-5 # 29A  
 Prepared by TEM on 11/22/98





Scale 1:38265.23



CROSS SECTION THROUGH WEST HALF  
 SECTION 13 TOWNSHIP 30 NORTH RANGE 05 WEST

Demonstrates Consistent Reservoir Character Across This Acreage.

Digital Well Logs Are Unavailable For The SAN JUAN 30-5 # 29A

Prepared by TEM on 11/22/98