

SCHEDULE XVI

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PRESENT ACTUAL PARTICIPATION		
			OWNERSHIP	PERCENTAGE			
E-504	T-32-N, R-6-W Sec. 16: W/2	320.00	Royalty;				
			Working Interest;				
			El Paso Natural Gas Co.;	76.5625%	76.5625%		
			ORRI;	10.9375%	10.9375%		
			TOTAL	100.0000%	100.0000%		
			<u>TRACT 10</u>				
				12.5000%	12.5000%	2.778663%	
			<u>TRACT 11</u>				
			Royalty;	12.50%	12.50%	.694666%	
			Working Interest;				
El Paso Natural Gas Co.;	43.75%	43.75%					
Atlantic Richfield Co.;	21.87%	21.87%					
Conoco, Inc.;	16.41%	16.41%					
Tenneco Oil Co.;	5.47%	5.47%					
ORRI;	0.00%	0.00%					
TOTAL	100.00%	100.00%					
<u>TRACT 12</u>							
Royalty;	12.50%	10.9375%	.607833%				
Working Interest;							
El Paso Natural Gas Co.;	38.28125%	38.28125%					
Atlantic Richfield Co.;	19.140625%	19.140625%					
Tenneco Oil Co.;	4.785156%	4.785156%					
Conoco, Inc.;	14.355469%	14.355469%					
Burton C. Dunn*	10.9375%	00.0000%					
ORRI;	00.0000%	00.0000%					
TOTAL	100.000000%	87.500000%					

\*Unleased and not committed to unit (10.00 Ac.) TOTAL

SCHEDULE XVI

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PRESENT ACTUAL PARTICIPATION	
			OWNERSHIP	PERCENTAGE		
<u>TRACT 13</u>						
Fee	(Colorado) T-32-N, R-6-W Sec. 20: Lot 1 (NE/4) SE/4), NW/4 NE/4, E/2 NE/4	152.21	Royalty; Working Interest; El Paso Natural Gas Co.;	12.50%	12.50%	1.321689%
			Atlantic Richfield Co.;	43.75%	43.75%	
			Tenneco Oil Co.;	21.875%	21.875%	
			Conoco, Inc.	5.46875%	5.46875%	
			ORRI;	16.40625%	16.40625%	
			TOTAL	100.00000%	100.00000%	
<u>TRACT 14</u>						
Fee	(Colorado) T-32-N, R-6-W Sec. 19: NW/4 NE/4 Sec. 20: S/2 NW/4, SW/4 NE/4	160.00	Royalty; Working Interest; El Paso Natural Gas Co.;	12.50%	12.50%	1.389331%
			Atlantic Richfield Co.;	43.75%	43.75%	
			Conoco, Inc.;	21.87%	21.87%	
			Tenneco Oil Co.;	16.41%	16.41%	
			ORRI;	5.47%	5.47%	
			TOTAL	100.00%	100.00%	
<u>TRACT 17</u>						
Fee	(Colorado) T-32-N, R-7-W Sec. 23: E/2 NE/4 Sec. 24: S/2 NW/4	160.00	Royalty; Working Interest; El Paso Natural Gas Co.;	12.50%	12.50%	1.389331%
			Amerada Hess Corp.;	43.75%	43.75%	
			ORRI;	43.75%	43.75%	
			TOTAL	100.00%	100.00%	

SCHEDULE XVI

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE	
<u>TRACT 18</u>					
Fee	(Colorado)				
	T-32-N, R-6-W	64.48			
	Sec. 20: Lots 2, 3				
	Royalty;		12.50%	12.50%	.559901%
	Working Interest;		43.75%	43.75%	
	El Paso Natural Gas Co.;		43.75%	43.75%	
	Amerada Hess Corp.;		00.00%	00.00%	
	ORRI;		00.00%	00.00%	
	TOTAL		100.00%	100.00%	
	<u>TRACT 19</u>				
Fee	(Colorado)				
	T-32-N, R-7-W	80.00			
	Sec. 24: N/2 NW/4				
	Royalty;		12.50%	12.50%	.694666%
	Working Interest;		43.75%	43.75%	
	El Paso Natural Gas Co.;		43.75%	43.75%	
	Amerada Hess Corp.;		0.00%	0.00%	
	ORRI;		0.00%	0.00%	
	TOTAL		100.00%	100.00%	
	<u>TRACT 20</u>				
Fee	(Colorado)				
	T-32-N, R-6-W	298.39			
	Sec. 19: Lots 1, 2, 3, 4, 5, E/2 NW/4, SW/4 NE/4				
	Royalty;		12.50%	12.50%	2.591016%
	Working Interest		43.75%	43.75%	
	El Paso Natural Gas Co.;		43.75%	43.75%	
	Amerada Hess Corp.;		0.00%	0.00%	
	ORRI;		0.00%	0.00%	
	TOTAL		100.00%	100.00%	

SCHEDULE XVI

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
(Colorado)						
TRACT 26						
Fee	T-32-N, R-7-W	387.23	Royalty;	12.50%	12.50%	3.362443%
	Sec. 23: NE/4 SE/4		Working Interest;			
	Sec. 24: N/2 S/2, NE/4		El Paso Natural Gas Co.;	43.75%	43.75%	
	T-32-N, R-6-W		Amerada Hess Corp.;	43.75%	43.75%	
	Sec. 20: Lot 4		ORRI;	0.00%	0.00%	
			TOTAL	100.00%	100.00%	
TRACT 27						
Fee	T-32-N, R-6-W	280.00	Royalty;	12.50%	12.50%	2.431330%
	Sec. 7: S/2 SE/4		Working Interest;			
	Sec. 17: W/2 NW/4, NW/4 SW/4		El Paso Natural Gas Co.;	43.75%	43.75%	
	Sec. 18: N/2 NE/4		Amerada Hess Corp.;	43.75%	43.75%	
			ORRI;	0.00%	0.00%	
			TOTAL	100.00%	100.00%	
TRACT 29						
Fee	T-32-N, R-6-W	318.57	Royalty;	16.66667%	16.66667%	2.766246%
	Sec. 7: Lot 7, SE/4 SW/4 (S/2 SW/4)		Working Interest;			
	Sec. 18: Lot 1, NE/4 NW/4		El Paso Natural Gas Co.;	41.66666%	41.66666%	
			Amerada Hess Corp.;	41.66667%	41.66667%	
			ORRI;	0.00000%	0.00000%	
			TOTAL	100.00000%	100.00000%	

Effective December 1, 1978

SCHEDULE XVI

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
<b>TRACT 30</b>						
Fee	I-32-N, R-6-W	530.76	Royalty;	12.50%	12.50%	4.608760%
	Sec. 7: Lots 1,2,3, 4,5, SE/4 NW/4, S/2 NE/4 (N/2)		Working Interest; El Paso Natural Gas Co.;	43.75%	43.75%	
			Amerada Hess Corp.;	43.75%	43.75%	
			ORRI:	0.00%	0.00%	
			<b>TOTAL</b>	<b>100.00%</b>	<b>100.00%</b>	
<b>TRACT 31</b>						
Martin, et al Fee	I-32-N, R-7-W	320.00	Royalty;	12.50%	12.50%	2.778663%
	Sec. 13: SW/4, E/2 NW/4, W/2 SE/4		Working Interest; El Paso Natural Gas Co.;	43.75%	43.75%	
			Amerada Hess Corp.;	43.75%	43.75%	
			ORRI:	0.00%	0.00%	
			<b>TOTAL</b>	<b>100.00%</b>	<b>100.00%</b>	
<b>TRACT 36</b>						
Fee	I-32-N, R-7-W	320.00	Royalty;	12.50%	12.50%	2.778663%
	Sec. 24: S/2		Working Interest; El Paso Natural Gas Co.;	43.75%	43.75%	
			Amerada Hess Corp.;	43.75%	43.75%	
			ORRI:	0.00%	0.00%	
			<b>TOTAL</b>	<b>100.00%</b>	<b>100.00%</b>	

SCHEDULE XVI

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
<u>TRACT 37</u>						
Fee	T-32-N, R-6-W	318.91	Royalty	12.50%	12.50%	2.769198%
	Sec. 18: Lots 2,3, SE/4 NW/4, NE/4 SW/4, S/2 NE/4, N/2 SE/4		Working Interest; El Paso Natural Gas Co.; Amerada Hess Corp.;	43.75%	43.75%	
			ORRI:	0.00%	0.00%	
			TOTAL	100.00%	100.00%	
<u>TRACT 38</u>						
Fee	T-32-N, R-7-W	320.00	Royalty;	12.50%	12.50%	2.778663%
	Sec. 25: N/2 NE/4, NW/4		Working Interest; El Paso Natural Gas Co.;	43.75%	43.75%	
	Sec. 26: E/2 NE/4		Amerada Hess Corp.;	43.75%	43.75%	
			ORRI:	0.00%	0.00%	
			TOTAL	100.00%	100.00%	
<u>TRACT 40</u>						
Fee	T-32-N, R-6-W	320.00	Royalty;	12.50%	12.50%	2.778663%
	Sec. 20: W/2		Working Interest; El Paso Natural Gas Co.;	43.75%	43.75%	
			Amerada Petroleum Corp.;	43.75%	43.75%	
			ORRI:	0.00%	0.00%	
			TOTAL	100.00%	100.00%	

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SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
<u>TRACT 41</u>						
Fee	T-32-N, R-6-W	320.00	Royalty;	12.50%	12.50%	2.778663%
	Sec. 18: SE/4 SW/4		Working Interest;			
	Sec. 19: NE/4, E/2 NW/4, NW/4 SE/4		El Paso Natural Gas Co.;	43.75%	43.75%	
			Amerada Hess Corp.;	43.75%	43.75%	
			ORRI;	0.00%	0.00%	
			TOTAL	<u>100.00%</u>	<u>100.00%</u>	
<u>TRACT 42</u>						
Fee	T-32-N, R-6-W	319.06	Royalty;	12.50%	12.50%	2.770501%
	Sec. 18: Lot 4		Working Interest;			
	Sec. 19: Lot 1		El Paso Natural Gas Co.;	43.75%	43.75%	
			Amerada Hess Corp.;	43.75%	43.75%	
			ORRI;	0.00%	0.00%	
			TOTAL	<u>100.00%</u>	<u>100.00%</u>	
<u>TRACT 43</u>						
Fee	T-32-N, R-6-W	160.00	Royalty;	12.50%	12.50%	1.389331%
	Sec. 29: SW/4 SW/4		Working Interest;			
	Sec. 30: E/2 SE/4, SW/4 SE/4		El Paso Natural Gas Co.;	43.75%	43.75%	
			Amerada Hess Corp.;	43.75%	43.75%	
			ORRI;	0.00%	0.00%	
			TOTAL	<u>100.00%</u>	<u>100.00%</u>	

Effective December 1, 1978

SCHEDULE XVI

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

TRACT 44

Fee	T-32-N, R-7-W	320.00					
	Sec. 11:	S/2 SW/4,	Royalty;	12.50%	12.50%	2.778663%	
		W/2 SE/4	Working Interest;				
	Sec. 14:	N/2 NW/4,	El Paso Natural Gas Co.;	43.75%	43.75%		
		SE/4 NW/4,	Amerada Hess Corp.;	43.75%	43.75%		
		NW/4 NE/4	ORRI;	0.00%	0.00%		
			TOTAL	<u>100.00%</u>	<u>100.00%</u>		

TRACT 46

Fee	T-32-N, R-6-W	158.76					
	Sec. 19:	SE/4 SW/4	Royalty;	12.50%	12.50%	1.378564%	
	Sec. 30:	Lot 1,	Working Interest;				
		NE/4 NW/4,	El Paso Natural Gas Co.;	43.75%	43.75%		
		NW/4 NE/4	Amerada Hess Corp.;	43.75%	43.75%		
			ORRI;	0.00%	0.00%		
			TOTAL	<u>100.00%</u>	<u>100.00%</u>		



SCHEDULE XVI

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

RECAPITULATION

Description of Lands in Participating Area:

NEW MEXICO

Township 32 North, Range 6 West, N.M.P.M.  
 Sections 7, 17, 18, 19, 29, 30: All  
 Sections 16, 20, 21: W/2

Township 32 North, Range 7 West, N.M.P.M.  
 Section 9: Lots 1, 2, 3, E/2 SW/4, SE/4  
 Sections 10, 11, 12, 13, 14, 15, 24: All  
 Section 16: E/2  
 Section 23: N/2, SE/4  
 Section 25: N/2  
 Section 26: NE/4

COLORADO

Township 32 North, Range 6 West, N.M.P.M.  
 Sections 19, 20: All

Township 32 North, Range 7 West, N.M.P.M.  
 Section 23: E/2 NE/4, NE/4 SE/4 (E/2 E/2)  
 Section 24: All

Total Number of Acres in Participating Area: 11,516.33

**El Paso** NATURAL GAS  
COMPANY

P. O. BOX 1492  
EL PASO, TEXAS 79978  
PHONE: 915-543-2600

February 19, 1980

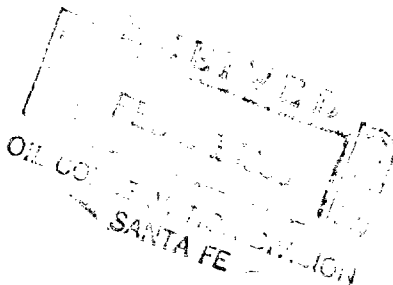
224  
OK for approval  
2/1/80  
23/11

Regional Oil and Gas Supervisor  
United States Geological Survey  
Drawer 1857  
Roswell, New Mexico 88201

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

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

Re: Allison Unit, I Sec. No. 752  
San Juan County, New Mexico  
La Plata and Archuleta Counties,  
Colorado - REQUEST FOR APPROVAL  
OF THE FIFTEENTH AND SIXTEENTH  
EXPANDED PARTICIPATING AREAS,  
Mesaverde Formation, effective  
November 1, 1978 and December 1,  
1978 Respectively



Gentlemen:

Pursuant to Section 10 of the Allison Unit Agreement, I Sec. No. 752, approved August 22, 1950, El Paso Natural Gas Company, as Unit Operator, submits for your approval the Fifteenth and Sixteenth Expanded Participating Areas for the Mesaverde Formation, Allison Unit, which includes in addition to the lands previously admitted to the Mesaverde Participating Area, the following lands reasonably estimated to be productive in paying quantities from the Mesaverde Formation:

Fifteenth Expanded Participating Area - Effective November 1, 1978

<u>Description of Lands</u>	<u>Acres</u>
<u>Township 32 North, Range 6 West</u> Section 21: W/2	320.00

The lands described above are proven to the productive by the following:

The Allison Unit #51 Well, located 1140' from the South line and 1510' from the West line of Section 21, Township 32 North, Range 6 West, N.M.P.M., was spudded on September 8, 1978, and completed on October 25, 1978, at a total depth of 6204'. The Mesaverde Formation at the intervals of 5612', 5622', 5633', 5648', 5659', 5689', 5699', 5720', 5727', 5733', 5750', 5758', 5766', 5774', 5781', 5790', 5809', 5830', 5837', 5859', 5867', 5880', 5896', 5942', 5985', 5992', 6023', 6039', 6073', 6089', 6097', 6105' was treated with a sand-water fracturing process on October 13, 1978. The well was shut-in on October 18, 1978, and after being shut-in for seven (7) days, the Mesaverde Formation was tested on October 25, 1978, using the Pitot tube method with an after frac guage of 4133 MCF/D, with an SIPC of 1184 psia and an SIPT of 1079 psia. The spacing unit for this well is described as the W/2 of Section 21, Township 32 North, Range 6 West, N.M.P.M., containing 320.00 acres.

Sixteenth Expanded Participating Area - Effective December 1, 1978

<u>Description of Lands</u>	<u>Acres</u>
<u>Township 32 North, Range 6 West</u> Section 29: E/2	320.00

The lands described above are proven to be productive by the following:

The Allison Unit #53 Well, located 1480' from the North line and 1800' from the East line of Section 29, Township 32 North, Range 6 West, N.M.P.M., was spudded on September 29, 1978, and completed on November 7, 1978, at a total depth of 6108'. The Mesaverde Formation at the intervals of 5498', 5504', 5580', 5587', 5634', 5681', 5687', 5694', 5700', 5706', 5718', 5724', 5735', 5741', 5763', 5784', 5786', 5810', 5866', 5918', 5960', 6022', 6044' was treated with a sand-water fracturing process on October 28, 1978. The well was shut-in on October 31, 1978, and after being shut-in for seven (7) days, the Mesaverde Formation was tested on November 7, 1978, using the Pitot tube method with an after frac guage of 2449 MCF/D, with an SIPC of 1173 psia and an SIPT of 955 psia. The spacing unit for this well is described as the E/2 of Section 29, Township 32 North, Range 6 West, N.M.P.M., containing 320.00 acres.

Regional Oil and Gas Supervisor  
Commissioner of Public Lands  
Oil Conservation Division  
Page Three

Filed in support of these Expansions are the following listed Exhibits which are made a part hereof:

Exhibit "A"

Ownership map reflecting the boundaries of the Allison Unit and the proposed Fifteenth and Sixteenth Expanded Participating Areas, Mesaverde Formation

Exhibit "B"

Geological Report on the Fifteenth and Sixteenth Expanded Participating Area, Mesaverde Formation

Exhibit "C"

Structural contour and Isapach map


Attached are Schedules XV and XVI showing the entire Mesaverde Participating Area for the Allison Unit and reflecting the Fifteenth and Sixteenth Expansions. Schedules XV and XVI describe the Expanded Participating Area, show the percentage of unitized substances allocated to each unitized tract, and the exact breakdown of percentage allocated to each tract according to the varied ownership in said tract.

Inasmuch as Section 10 of the Unit Agreement provides that, "The effective date of any revision shall be the first of the month following the date of first authentic knowledge or information on which such revision is predicated, unless a more appropriate effective date is specified in the schedule", the Fifteenth and Sixteenth Expanded Participating Areas, Mesaverde Formation, will be effective November 1, 1978 and December 1, 1978, respectively.

If these Fifteenth and Sixteenth Expanded Participating Areas, Mesaverde Formation, meet with your approval, please indicate such approval in the space provided on the attached page and return an approved copy for our records.

A copy of this letter and of Schedules XV and XVI is being sent to the working interest owners shown on the attached sheet.

Very truly yours,

  
James R. Permenter  
Manager, Land Contracts  
and Titles  
Land Department

JRP/DCH/sfg  
Enclosures  
Allison Unit 4.2

APPROVED:

\_\_\_\_\_  
Regional Oil & Gas Supervisor  
United States Geological Survey  
(Subject to like approval by the  
Commissioner of Public Lands and  
the Oil Conservation Division)

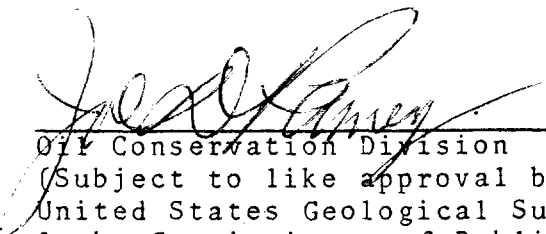
DATED: \_\_\_\_\_

APPROVED:

\_\_\_\_\_  
Commissioner of Public Lands  
(Subject to like approval by the  
United States Geological Survey  
& the Oil Conservation Division)

DATED: \_\_\_\_\_

APPROVED:

  
\_\_\_\_\_  
Oil Conservation Division  
(Subject to like approval by the  
United States Geological Survey  
& the Commissioner of Public Lands)

DATED: 4/3/80

The foregoing approvals are for the Fifteenth and Sixteenth Expanded Participating Areas for the Mesaverde Formation, effective November 1, 1978 and December 1, 1978, respectively, under the Allison Unit Area, I Sec. No. 752, San Juan County, New Mexico, La Plata and Archuleta Counties, Colorado.

ALLISON UNIT  
Working Interest Owners

Amerada Hess Corporation (3)

Atlantic Richfield Company (3)  
Denver, Colorado

Ruth Phillips Bisiker  
(Stockholder of Phillips Drilling Corporation)

Castle, Inc.  
(Stockholder of Phillips Drilling Corporation)

Conoco, Inc.

Suzanna Phillips Kelly  
(Stockholder of Phillips Drilling Corporation)

Jane Phillips Ladoucer  
(Stockholder of Phillips Drilling Corporation)

H. H. Phillips  
(Stockholder of Phillips Drilling Corporation)

H. H. Phillips, Jr.

Winnie A. Phillips  
(Stockholder of Phillips Drilling Corporation)

Tenneco Oil Company

SCHEDULE XV  
FIFTEENTH EXPANDED PARTICIPATING AREA FOR THE MESAVERDE FORMATION  
ALLISON UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
SF 078459-B	<u>T-32-N, R-7-W</u>	1,874.32				
	Sec. 9: Lots 1,2,3. E/2 SW/4, SE/4		Royalty:	12.50%	12.50%	16.740485
	Sec. 10: Lots 1,2,3,4, S/2		Working Interest:	41.00%	41.00%	
	Sec. 11: Lots 2,3,4, N/2 SW/4		El Paso Natural Gas Co.:	41.00%	41.00%	
	Sec. 14: SW/4 NW/4, SW/4 NE/4, S/2		Amerada Hess Corp.:	5.50%	5.50%	
	Sec. 15: All		ORRI:	100.00%	100.00%	
			TOTAL	100.00%	100.00%	
						<u>TRACT 1</u>
SF 078483-A	<u>T-32-N, R-7-W</u>	759.31				
	Sec. 11: Lot 1, E/2 SE/4		Royalty:	12.50%	12.50%	6.781776
	Sec. 12: Lot 4, W/2 SW/4		Working Interest:	41.00%	41.00%	
	Sec. 13: W/2 NW/4		El Paso Natural Gas Co.:	41.00%	41.00%	
	Sec. 14: E/2 NE/4		Amerada Hess Corp.:	5.50%	5.50%	
	Sec. 23: E/2		ORRI:	100.00%	100.00%	
	Sec. 26: W/2 NE/4		TOTAL	100.00%	100.00%	
						<u>TRACT 2</u>
SF 080067-A	<u>T-32-N, R-7-W</u>	160.00				
	Sec. 24: NW/4		Royalty:	12.50%	12.50%	1.429040
			Working Interest:	41.50%	41.50%	
			El Paso Natural Gas Co.:	41.50%	41.50%	
			Amerada Hess Corp.:	4.50%	4.50%	
			ORRI:	100.00%	100.00%	
			TOTAL	100.00%	100.00%	
						<u>TRACT 3</u>

SCHEDULE XV

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
SF 081155	T-32-N, R-6-W	1232.99				
	Sec. 19: Lots 2, 3, 4, NE/4 SW/4, E/2 SE/4, SW/4 SE/4		Royalty;	12.50%	12.50%	11.01244
			Working Interest;			
			El Paso Natural Gas Co.;	41.50%	41.50%	
			Amerada Hess Corp.;	41.50%	41.50%	
			ORRI;	4.50%	4.50%	
			TOTAL	100.00%	100.00%	
	Sec. 21: W/2					
	Sec. 29: NW/4, N/2 SW/4, SE/4 SW/4					
	Sec. 30: Lots 2, 3, 4, SE/4 NW/4, E/2 SW/4, S/2 NE/4, NE/4 NE/4					
			TOTAL	100.00%	100.00%	
NM 01745	T-32-N, R-7-W	80.00				
	Sec. 25: S/2 NE/4		Royalty;	12.50%	12.50%	.714520%
			Working Interest;			
			El Paso Natural Gas Co.;	43.75%	43.75%	
			Phillips Drilling Co.;	43.75%	43.75%	
			ORRI;	0.00%	0.00%	
			TOTAL	100.00%	100.00%	
NM 04206	T-32-N, R-7-W	160.00				
	Sec. 23: NW/4		Royalty;	12.50%	12.50%	1.429040%
			Working Interest;			
			El Paso Natural Gas Co.;	41.00%	41.00%	
			Amerada Hess Corp.;	41.00%	41.00%	
			ORRI;	5.50%	5.50%	
			TOTAL	100.00%	100.00%	

Effective November 1, 1978



SCHEDULE XV

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION					
			OWNERSHIP	PERCENTAGE							
NM 04207	I-32-N, R-6-W Sec. 7: Lot 6, NE/4 SW/4, N/2 SE/4 (N/2 S/2) 41.00% Sec. 17: E/2, E/2 W/2, SW/4 SW/4 Sec. 18: S/2 SE/4 Sec. 30: NW/4 SE/4	799.05	Royalty;	12.50%	12.50%	7.136714%					
			Working Interest;	41.00%							
			El Paso Natural Gas Co.;	41.00%							
			Amerada Hess Corp.;	5.50%							
			ORRI;	100.00%							
			TOTAL	100.00%							
			<u>TRACT 7</u>								
			(Colorado)								
			I-22-Ind. 2792	I-32-N, R-6-W Sec. 19: Lot 6 (NE/4 SE/4)			32.29	Royalty;	12.50%	12.50%	.288398%
								Working Interest;	43.75%		
El Paso Natural Gas Co.;	43.75%										
Amerada Hess Corp.;	0.00%										
ORRI;	100.00%										
<u>TRACT 8</u>											
E-503	I-32-N, R-7-W Sec. 16: E/2	320.00	Royalty;	12.5000%	12.5000%	2.858079%					
			Working Interest;	75.5625%							
			El Paso Natural Gas Co.;	11.9375%							
			ORRI;	100.0000%							
			TOTAL	100.0000%							
<u>TRACT 9</u>											

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SCHEDULE XV

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION		
			OWNERSHIP	PERCENTAGE				
E-504	T-32-N, R-6-W Sec. 16: W/2	320.00						
			Royalty;					
			Working Interest;					
			El Paso Natural Gas Co.;	76.5625%	76.5625%			
			ORRI;	10.9375%	10.9375%			
			TOTAL	100.00000%	100.00000%			
			<u>TRACT 10</u>					
								2.858079%
Fee	(Colorado) T-32-N, R-6-W Sec. 19: E/2 NE/4	80.00						
			Royalty;					
			Working Interest;					
			El Paso Natural Gas Co.;	43.75%	43.75%			
			Atlantic Richfield Co.;	21.87%	21.87%			
			Conoco, Inc.;	16.41%	16.41%			
			Tenneco Oil Co.;	5.47%	5.47%			
			ORRI;	0.00%	0.00%			
			TOTAL	100.00%	100.00%			
			<u>TRACT 11</u>					
					.714520%			
Fee	(Colorado) T-32-N, R-6-W Sec. 20: N/2 NW/4	80.00*						
			Royalty;					
			Working Interest;					
			El Paso Natural Gas Co.;	38.28125%	38.28125%			
			Atlantic Richfield Co.;	19.140625%	19.140625%			
			Tenneco Oil Co.;	4.785156%	4.785156%			
			Conoco, Inc.;	14.355469%	14.355469%			
			Burton C. Dunn* ORRI;	10.9375%	00.0000%			
			TOTAL	100.000000%	87.500000%			
			<u>TRACT 12</u>					
					.625205%			

\*Unleased and not committed to unit (10.00 Ac.) TOTAL

SCHEDULE XV

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
<u>TRACT 13</u>						
Fee	(Colorado) T-32-N, R-6-W Sec. 20: Lot 1 (NE/4) SE/4), NE/4, E/2 NW/4 NE/4	152.21	Royalty; Working Interest; El Paso Natural Gas Co.; Atlantic Richfield Co.; Tenneco Oil Co.; Conoco, Inc.;	12.50%	43.75% 21.875% 5.46875% 16.40625% 00.00000%	1.359463%
TOTAL						
				100.000000%	100.000000%	
<u>TRACT 14</u>						
Fee	(Colorado) T-32-N, R-6-W Sec. 19: NW/4 NE/4 Sec. 20: S/2 NW/4, SW/4 NE/4	160.00	Royalty; Working Interest; El Paso Natural Gas Co.; Atlantic Richfield Co.; Conoco, Inc.; Tenneco Oil Co.;	12.50%	43.75% 21.87% 16.41% 5.47% 0.00%	1.429040%
TOTAL						
				100.00%	100.00%	
<u>TRACT 17</u>						
Fee	(Colorado) T-32-N, R-7-W Sec. 23: E/2 NE/4 Sec. 24: S/2 NW/4	160.00	Royalty; Working Interest; El Paso Natural Gas Co.; Amerada Hess Corp.;	12.50%	43.75% 43.75% 0.00%	1.429040%
TOTAL						
				100.00%	100.00%	

SCHEDULE XV

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
<u>TRACT 18</u>						
Fee	(Colorado) T-32-N, R-6-W Sec. 20: Lots 2, 3	64.48	Royalty: Working Interest: El Paso Natural Gas Co.:	12.50%	43.75%	.575903%
			Amerada Hess Corp.:	43.75%	43.75%	
			ORRI:	00.00%	00.00%	
			TOTAL	<u>100.00%</u>	<u>100.00%</u>	
<u>TRACT 19</u>						
Fee	(Colorado) T-32-N, R-7-W Sec. 24: N/2 NW/4	80.00	Royalty: Working Interest: El Paso Natural Gas Co.:	12.50%	43.75%	.714520%
			Amerada Hess Corp.:	43.75%	43.75%	
			ORRI:	0.00%	0.00%	
			TOTAL	<u>100.00%</u>	<u>100.00%</u>	
<u>TRACT 20</u>						
Fee	(Colorado) T-32-N, R-6-W Sec. 19: Lots 1, 2, 3, 4, 5, E/2 NW/4, SW/4 NE/4	298.39	Royalty: Working Interest: El Paso Natural Gas Co.:	12.50%	43.75%	2.665070%
			Amerada Hess Corp.:	43.75%	43.75%	
			ORRI:	0.00%	0.00%	
			TOTAL	<u>100.00%</u>	<u>100.00%</u>	

SCHEDULE XV

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PRESENT PARTICIPATION
			OWNERSHIP	PERCENTAGE	
(Colorado)					
Fee	T-32-N, R-7-W	387.23			
	Sec. 23: NE/4 SE/4		Royalty;	12.50%	12.50%
	Sec. 24: N/2 S/2, NE/4		Working Interest;		
	T-32-N, R-6-W		El Paso Natural Gas Co.;	43.75%	43.75%
	Sec. 20: Lot 4		Amerada Hess Corp.;	43.75%	43.75%
			ORRI;	0.00%	0.00%
			TOTAL	100.00%	100.00%
					3.458544%
TRACT 26					
Fee	T-32-N, R-6-W	280.00			
	Sec. 7: S/2 SE/4		Royalty;	12.50%	12.50%
	Sec. 17: W/2 NW/4, NW/4 SW/4		Working Interest;		
	Sec. 18: N/2 NE/4		El Paso Natural Gas Co.;	43.75%	43.75%
			Amerada Hess Corp.;	43.75%	43.75%
			ORRI;	0.00%	0.00%
			TOTAL	100.00%	100.00%
					2.500820%
TRACT 27					
Fee	T-32-N, R-6-W	318.57			
	Sec. 7: Lot 7, SE/4 SW/4 (S/2 SW/4)		Royalty;	16.66667%	16.66667%
	Sec. 18: Lot 1, NE/4 NW/4		Working Interest;		
			El Paso Natural Gas Co.;	41.66666%	41.66666%
			Amerada Hess Corp.;	41.66667%	41.66667%
			ORRI;	0.00000%	0.00000%
			TOTAL	100.00000%	100.00000%
					2.845307%
TRACT 29					
	T-32-N, R-7-W				
	Sec. 13: NE/4				

Effective November 1, 1978

SCHEDULE XV

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
<u>TRACT 30</u>						
ee	T-32-N, R-6-W Sec. 7: Lots 1, 2, 3, 4, 5, SE/4 NW/4, S/2 NE/4 (N/2)	530.76	Royalty; Working Interest; El Paso Natural Gas Co.; Amerada Hess Corp.;	12.50% 43.75% 43.75% 0.00%	12.50% 43.75% 43.75% 0.00%	4.740482%
TOTAL						
				100.00%	100.00%	
<u>TRACT 31</u>						
artin, et al Fee	T-32-N, R-7-W Sec. 12: Lots 1, 2, 3, E/2 SW/4, SE/4	320.00	Royalty; Working Interest; El Paso Natural Gas Co.; Amerada Hess Corp.;	12.50% 43.75% 43.75% 0.00%	12.50% 43.75% 43.75% 0.00%	2.858079%
TOTAL						
				100.00%	100.00%	
<u>TRACT 36</u>						
ee	T-32-N, R-7-W Sec. 24: S/2	320.00	Royalty; Working Interest; El Paso Natural Gas Co.; Amerada Hess Corp.;	12.50% 43.75% 43.75% 0.00%	12.50% 43.75% 43.75% 0.00%	2.858079%
TOTAL						
				100.00%	100.00%	

SCHEDULE XV

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE	
<u>TRACT 37</u>					
Fee	<u>T-32-N, R-6-W</u>	318.91			
	Sec. 18: Lots 2, 3, SE/4 NW/4, NE/4 SW/4, S/2 NE/4, N/2 SE/4		Royalty	12.50%	12.50%
			Working Interest;		
			El Paso Natural Gas Co.;	43.75%	43.75%
			Amerada Hess Corp.;	43.75%	43.75%
			ORRI;	0.00%	0.00%
			TOTAL	<u>100.00%</u>	<u>100.00%</u>
					2.848344%
<u>TRACT 38</u>					
Fee	<u>T-32-N, R-7-W</u>	320.00			
	Sec. 25: N/2 NE/4, NW/4		Royalty;	12.50%	12.50%
			Working Interest;		
			El Paso Natural Gas Co.;	43.75%	43.75%
			Amerada Hess Corp.;	43.75%	43.75%
			ORRI;	0.00%	0.00%
			TOTAL	<u>100.00%</u>	<u>100.00%</u>
					2.858079%
<u>TRACT 40</u>					
Fee	<u>T-32-N, R-6-W</u>	320.00			
	Sec. 20: W/2		Royalty;	12.50%	12.50%
			Working Interest;		
			El Paso Natural Gas Co.;	43.75%	43.75%
			Amerada Hess Corp.;	43.75%	43.75%
			ORRI;	0.00%	0.00%
			TOTAL	<u>100.00%</u>	<u>100.00%</u>
					2.858079%

Effective November 1, 1978

SCHEDULE XV

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
<u>TRACT 41</u>						
Fee	T-32-N, R-6-W	320.00	Royalty;	12.50%	12.50%	2.858079%
	Sec. 18: SE/4 SW/4		Working Interest;			
	Sec. 19: NE/4, E/2 NW/4, NW/4 SE/4		El Paso Natural Gas Co.;	43.75%	43.75%	
			Amerada Hess Corp.;	43.75%	43.75%	
			ORRI;	0.00%	0.00%	
			TOTAL	100.00%	100.00%	
<u>TRACT 42</u>						
Fee	T-32-N, R-6-W	319.06	Royalty;	12.50%	12.50%	2.849684%
	Sec. 18: Lot 4		Working Interest;			
	Sec. 19: Lot 1		El Paso Natural Gas Co.;	43.75%	43.75%	
			Amerada Hess Corp.;	43.75%	43.75%	
			ORRI;	0.00%	0.00%	
			TOTAL	100.00%	100.00%	
<u>TRACT 43</u>						
Fee	T-32-N, R-6-W	160.00	Royalty;	12.50%	12.50%	1.429040%
	Sec. 29: SW/4 SW/4		Working Interest;			
	Sec. 30: E/2 SE/4, SW/4 SE/4		El Paso Natural Gas Co.;	43.75%	43.75%	
			Amerada Hess Corp.;	43.75%	43.75%	
			ORRI;	0.00%	0.00%	
			TOTAL	100.00%	100.00%	

Effective November 1, 1978



SCHEDULE XV

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PRESENT ACTUAL PARTICIPATION	
			OWNERSHIP	PERCENTAGE		
<u>TRACT 44</u>						
Fee	T-32-N, R-7-W	320.00	Royalty:	12.50%	12.50%	2.858079%
	Sec. 11: S/2 SW/4, W/2 SE/4		Working Interest:	43.75%	43.75%	
	Sec. 14: N/2 NW/4, SE/4 NW/4, NW/4 NE/4		El Paso Natural Gas Co.:	43.75%	43.75%	
			Amerada Hess Corp.:	0.00%	0.00%	
			ORRI:			
			TOTAL	<u>100.00%</u>	<u>100.00%</u>	
<u>TRACT 46</u>						
Fee	T-32-N, R-6-W	158.76	Royalty:	12.50%	12.50%	1.417965%
	Sec. 19: SE/4 SW/4		Working Interest:	43.75%	43.75%	
	Sec. 30: Lot 1, NE/4 NW/4, NW/4 NE/4		El Paso Natural Gas Co.:	43.75%	43.75%	
			Amerada Hess Corp.:	0.00%	0.00%	
			ORRI:			
			TOTAL	<u>100.00%</u>	<u>100.00%</u>	

Effective November 1, 1978

SCHEDULE XV

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

RECAPITULATION

Description of Lands in Participating Area:

NEW MEXICO

Township 32 North, Range 6 West, N.M.P.M.  
 Sections 7, 17, 18, 19, 30: All  
 Sections 16, 20, 21, 29: W/2

Township 32 North, Range 7 West, N.M.P.M.  
 Section 9: Lots 1, 2, 3, E/2 SW/4, SE/4  
 Sections 10, 11, 12, 13, 14, 15, 24: All  
 Section 16: E/2  
 Section 23: N/2, SE/4  
 Section 25: N/2  
 Section 26: NE/4

COLORADO

Township 32 North, Range 6 West, N.M.P.M.  
 Sections 19, 20: All

Township 32 North, Range 7 West, N.M.P.M.  
 Section 23: E/2 NE/4, NE/4 SE/4 (E/2 E/2)  
 Section 24: All

Total Number of Acres in Participating Area: 11,196.33

SCHEDULE XVI  
 SIXTEENTH EXPANDED PARTICIPATING AREA FOR THE MESAVERDE FORMATION  
 ALLISON UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE	
<u>TRACT 1</u>					
SF 078459-B	T-32-N, R-7-W	1,874.32			16.275324
	Sec. 9: Lots 1,2,3. E/2 SW/4, SE/4		Royalty;	12.50%	
	Sec. 10: Lots 1,2,3,4, S/2		Working Interest;		
	Sec. 11: Lots 2,3,4, N/2 SW/4		El Paso Natural Gas Co.;	41.00%	41.00%
	Sec. 14: SW/4 NW/4, SW/4 NE/4, S/2		Amerada Hess Corp.;	41.00%	41.00%
	Sec. 15: All		ORRI;	5.50%	5.50%
			TOTAL	100.00%	100.00%
<u>TRACT 2</u>					
SF 078483-A	T-32-N, R-7-W	759.31			6.593333
	Sec. 11: Lot 1, E/2 SE/4		Royalty;	12.50%	
	Sec. 12: Lot 4, W/2 SW/4		Working Interest;		
	Sec. 13: W/2 NW/4		El Paso Natural Gas Co.;	41.00%	41.00%
	Sec. 14: E/2 NE/4		Amerada Hess Corp.;	41.00%	41.00%
	Sec. 23: E/2		ORRI;	5.50%	5.50%
	Sec. 26: W/2 NE/4		TOTAL	100.00%	100.00%
<u>TRACT 3</u>					
SF 080067-A	T-32-N, R-7-W	160.00			1.389331
	Sec. 24: NW/4		Royalty;	12.50%	
			Working Interest;		
			El Paso Natural Gas Co.;	41.50%	41.50%
			Amerada Hess Corp.;	41.50%	41.50%
			ORRI;	4.50%	4.50%
			TOTAL	100.00%	100.00%

SCHEDULE XVI

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE	
SF 081155	<u>T-32-N, R-6-W</u> 1552.99				13.485112
	Sec. 19: Lots 2, 3, 4,		Royalty:	12.50%	
	NE/4 SW/4,		Working Interest:		
	E/2 SE/4,		El Paso Natural Gas Co.:	41.50%	
	SW/4 SE/4		Amerada Hess Corp.:	41.50%	
			ORRI:	4.50%	
	Sec. 21: W/2		TOTAL	100.00%	
	Sec. 29: NW/4, N/2 SW/4,				
	SE/4 SW/4, E/2				
	Sec. 30: Lots 2, 3, 4, SE/4 NW/4,				
E/2 SW/4, S/2 NE/4,					
NE/4 NE/4					
			<u>TRACT 4</u>		
NM 01745	<u>T-32-N, R-7-W</u> 80.00				.694666%
	Sec. 25: S/2 NE/4		Royalty:	12.50%	
			Working Interest:		
			El Paso Natural Gas Co.:	43.75%	
		Phillips Drilling Co.:	43.75%		
		ORRI:	0.00%		
			TOTAL	100.00%	
			<u>TRACT 5</u>		
NM 04206	<u>T-32-N, R-7-W</u> 160.00				1.389331%
	Sec. 23: NW/4		Royalty:	12.50%	
			Working Interest:		
			El Paso Natural Gas Co.:	41.00%	
		Amerada Hess Corp.:	41.00%		
		ORRI:	5.50%		
			TOTAL	100.00%	
			<u>TRACT 6</u>		

SCHEDULE XVI

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION		
			OWNERSHIP	PERCENTAGE				
NM 04207	T-32-N, R-6-W Sec. 7: Lot 6, NE/4 SW/4, N/2 SE/4 (N/2 S/2) Sec. 17: E/2, E/2 W/2, SW/4 SW/4 Sec. 18: S/2 SE/4 Sec. 30: NW/4 SE/4	799.05	TRACT 7					
			Royalty:	12.50%	12.50%	6.938408%		
			Working Interest:					
			El Paso Natural Gas Co.:	41.00%	41.00%			
			Amerada Hess Corp.:	41.00%	41.00%			
			ORRI:	5.50%	5.50%			
			TOTAL	100.00%	100.00%			
			TRACT 8					
			Royalty:	12.50%	12.50%		.280385%	
			Working Interest:					
El Paso Natural Gas Co.:	43.75%	43.75%						
Amerada Hess Corp.:	43.75%	43.75%						
ORRI:	0.00%	0.00%						
TOTAL	100.00%	100.00%						
TRACT 9								
Royalty:	12.5000%	12.5000%	2.778663%					
Working Interest:								
El Paso Natural Gas Co.:	75.5625%	75.5625%						
ORRI:	11.9375%	11.9375%						
TOTAL	100.0000%	100.0000%						

E-503 T-32-N, R-7-W 320.00  
Sec. 16: E/2

Effective December 1, 1978

EXHIBIT "B"  
ALLISON UNIT  
SAN JUAN COUNTY, NEW MEXICO  
ARCHULETA AND LA PLATA COUNTIES, COLORADO  
GEOLOGIC REPORT  
MESAVERDE PRODUCING INTERVAL  
PROPOSED FIFTEENTH EXPANSION  
OF THE MESAVERDE PARTICIPATING AREA

EL PASO NATURAL GAS COMPANY


By:   
D. E. Adams, Director  
Reservoir Engineering Dept.

EXHIBIT "B"

ALLISON UNIT  
SAN JUAN COUNTY, NEW MEXICO  
ARCHULETA AND LA PLATA COUNTIES, COLORADO

GEOLOGIC REPORT  
MESAVERDE PRODUCING INTERVAL

PROPOSED FIFTEENTH EXPANSION  
OF THE MESAVERDE PARTICIPATING AREA

INTRODUCTION

The Allison Unit is situated in the northern portion of the San Juan Basin and occupies a part of the southern and southwestern flank of the Ignacio structure of Colorado. It lies predominately in Township 32 North, Ranges 6 and 7 West, San Juan County, New Mexico, with small amounts of acreage in Township 32 North, Ranges 6 and 7 West, Archuleta and La Plata Counties, Colorado.

The proposed fifteenth expansion of the Mesaverde participating area is recommended on the basis of the geological inference drawn from the present unit completions that offset the area to the north and west.

Included with this report is one map which presents the up-to-date structural interpretation (Exhibit "C", Figure No. 1), of the Mesaverde formation underlying the proposed area.

A detailed discussion of the lithology and stratigraphy of the Mesaverde formation may be found in a geological report submitted for the proposed tenth and eleventh expansions of the Mesaverde participating area.

PROPOSED FIFTEENTH EXPANSION  
OF THE MESAVERDE PARTICIPATING AREA

Effective Date: November 1, 1978

The proposed fifteenth expansion of the Mesaverde Participating Area of the Allison Unit is based on El Paso Natural Gas Company's Allison No. 51 Mesaverde well, which is located 1,140' FSL and 1,510' FWL, Section 21, Township 32 North, Range 6 West, San Juan County, New Mexico. This well was tested on October 25, 1978 with the following results:

SIPC	1,184 psia
SIPT	1,079 psia
AFG	4,133 Mcf/D

Proposed Expanded Acreage

Township 32 North, Range 6 West  
San Juan County, New Mexico  
West Half of Section 21

All of the above acreage is considered to be within the established trend of commercial production.