

TABLE NO. 1  
 COX CANYON UNIT PICTURED CLIFFS GAS PRODUCTION  
 SAN JUAN COUNTY, NEW MEXICO  
 Gas Volumes in MCF @ 14.73 psia & 60°F

Unit Well No.	Location	Cum. Prod to 1/1/77	January	February	March	April	May	June	July	August	September	1-1-77 to 10-1-77 YTD Total	Cum Prod to 10/1/77
10	H-21-32N-11W	995512	20107	14765	17903	14073	10399	0	7339	10589	12257	107432	1102944
11	P-21-32N-11W	1160041	14473	24014	18466	19643	13927	13811	18473	16109	13077	153177	1313718
12 Com	*I-20-32N-11W	51315	1734	1043	1685	1926	1527	1548	917	1528	1419	13227	64602
13	A-20-32N-11W	192649	6539	5100	6828	6980	6419	5721	4210	5632	6540	53969	246618
14	K-21-32N-11W	349592	11027	9733	12096	9401	10130	8884	6690	9302	9690	86863	436365
15	D-21-32N-11W	1379833	12093	8614	10972	10632	10319	0	9014	11542	11994	85180	465013
16	I-16-32N-11W	1130028	44787	33366	44234	33757	22919	0	21025	31593	42088	273769	1403797
17	M-16-32N-11W	367783	12503	12309	16675	14203	10927	0	9301	12587	14188	102773	470561
18	I-17-32N-11W	165719	7286	5909	8232	8653	8320	6542	4909	6485	8037	64373	230092
19 Com	*C-26-32N-11W	0	0	0	0	0	0	0	0	0	0	0	0
20	A-16-32N-11W	0	0	0	0	0	0	0	0	0	0	0	0
21	C-16-32N-11W	0	0	0	0	0	0	0	0	0	0	0	0
22	A-17-32N-11W	0	0	0	0	0	0	0	0	0	0	0	0
23 Com	*G-17-32N-11W	0	0	0	0	0	0	0	0	0	0	0	0
24 Com	*N-17-32N-11W	0	0	0	0	0	0	0	0	0	0	0	0
25	O-09-32N-11W	0	0	0	0	0	0	0	0	0	0	0	0
26	L-09-32N-11W	0	0	0	0	0	0	0	0	0	0	0	0
27	J-08-32N-11W	0	0	0	0	0	0	0	0	0	0	0	0
TOTALS		4792647	131029	110853	136998	119168	94887	41506	81878	105457	119290	941063	5733710

\*Is total production of unit participation.  
 Well is 50% unit and 50% non-unit.

NORTHWEST PIPELINE CORPORATION

UNIT AREA EXPANSION SCHEDULE

SCHEDULE VI

FIFTH EXPANSION OF PARTICIPATING AREA FOR THE PICTURED CLIFFS FORMATION  
COX CANYON UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	OWNERSHIP	DRILLING BLOCK	PERCENTAGE	PERCENTAGE COMMITTED	PRESENT ACTU PARTICIPATI				
E-3087-3	T 32N, R 11W Sec. 16: NE/4 SE/4	40.00	Royalty; Working Interest; Northwest Pipeline Corp.; ORRI;	TRACT 1	12.50%	12.50%	1.547628%				
								TOTAL	100.00%	100.00%	
								TRACT 2			
								Royalty;	12.50%	12.50%	1.547628%
								Working Interest;	70.50%	70.50%	
								Northwest Pipeline Corp.;	17.00%	17.00%	
								ORRI;	100.00%	100.00%	
								TOTAL	100.00%	100.00%	
								TRACT 3			
								Royalty;	12.50%	12.50%	6.190513%
Working Interest;	73.00%	73.00%									
Northwest Pipeline Corp.;	14.50%	14.50%									
ORRI;	100.00%	100.00%									
TOTAL	100.00%	100.00%									
E-3091-3	T 32N, R 11W Sec. 16: NW/4 SE/4, SW/4 NE/4	80.00	Royalty; Working Interest; Northwest Pipeline Corp.;	TRACT 3	12.50%	12.50%	3.095257%				
								TOTAL	100.00%	100.00%	
								Royalty;	12.50%	12.50%	3.095257%
								Working Interest;	75.50%	75.50%	
								Northwest Pipeline Corp.;	12.00%	12.00%	
								ORRI;	100.00%	100.00%	
								TOTAL	100.00%	100.00%	

Effective October 1, 1977

**NORTHWEST PIPELINE CORPORATION**  
**UNIT AREA EXPANSION SCHEDULE**

SCHEDULE VI  
 FIFTH EXPANSION OF PARTICIPATING AREA FOR THE PICTURED CLIFFS FORMATION  
 COX CANYON UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	OWNERSHIP	DRILLING BLOCK	PERCENTAGE	PERCENTAGE COMMITTED	PRESENT ACTI PARTICIPATI
E-3092-4	T 32N, R 11W Sec. 16: SE/4 SE/4, NE/4 SW/4	80.00	Royalty;	TRACT 4	12.50%	12.50%	3.095257%
			Working Interest;				
			Northwest Pipeline Corp.;				
			ORRI;				
TOTAL							
E-3093-3	T 32N, R 11W Sec. 16: NW/4 SW/4, SE/4 NE/4	80.00	Royalty;	TRACT 5	12.50%	12.50%	3.095257%
			Working Interest;				
			Northwest Pipeline Corp.;				
			ORRI;				
TOTAL							
E-3094-4	T 32N, R 11W Sec. 16: NE/4 NE/4	40.00	Royalty;	TRACT 6	12.50%	12.50%	1.547628%
			Working Interest;				
			Northwest Pipeline Corp.;				
			ORRI;				
TOTAL							
E-3095-4	T 32N, R 11W Sec 16: SW/4 NW/4	40.00	Royalty;	TRACT 7	12.50%	12.50%	1.547628%
			Working Interest;				
			Northwest Pipeline Corp.;				
			ORRI;				
TOTAL							

Effective October 1, 1977

**NORTHWEST PIPELINE CORPORATION**  
**UNIT AREA EXPANSION SCHEDULE**

SCHEDULE VI

FIFTH EXPANSION OF PARTICIPATING AREA FOR THE PICTURED CLIFFS FORMATION  
 COX CANYON UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	OWNERSHIP	DRILLING BLOCK	PERCENTAGE	PERCENTAGE COMMITTED	PRESENT ACTI PARTICIPAT					
E-5387-1	T 32N, R 11W Sec. 16: NW/4 NE/4	40.00	Royalty;	TRACT 8	12.50%	12.50%	1.547628%					
			Working Interest;									
			Northwest Pipeline Corp.;									
			ORRI;									
TOTAL												
E-5388-2	T 32N, R 11W Sec. 16: SW/4 SW/4	40.00	Royalty;	TRACT 9	12.50%	12.50%	1.547628%					
			Working Interest;									
			Northwest Pipeline Corp.;									
			ORRI;									
TOTAL												
NM-03189	T 32N, R 11W Sec. 8: Lots 1 & 2 & S/2 SE/4 Sec. 9: Lots 1,2,3,4 & S/2 S/2 Sec. 20: NE/4 & E/2 SE/4 Sec. 21: All	1384.60	Royalty;	TRACT 10	12.50%	12.50%	53.571152%					
			Working Interest;									
			Northwest Pipeline Corp.;									
			ORRI;									
			TOTAL									
			TOTAL									

Effective October 1, 1977

NORTHWEST PIPELINE CORPORATION  
UNIT AREA EXPANSION SCHEDULE

SCHEDULE VI  
FIFTH EXPANSION OF PARTICIPATING AREA FOR THE PICTURED CLIFFS FORMATION  
COX CANYON UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	OWNERSHIP	DRILLING BLOCK	PERCENTAGE	PERCENTAGE COMMITTED	PRESENT ACTU. PARTICIPATI				
NM-03190	T 32N, R 11W Sec. 17: E/2 & E/2 W/2	480.00	<u>TRACT 11</u>						18.571539%		
			Royalty;	12.50%	12.50%						
			Working Interest:								
			Northwest Pipeline Corp.;	72.50%	72.50%						
			ORRI;	15.00%	15.00%						
			TOTAL	100.00%	100.00%						
			<u>TRACT 12</u>								
			Royalty;	12.50%	12.50%						
			Working Interest Before Payout:								
			El Paso Natural Gas Co.;	69.00%	69.00%						
ORRI;	18.50%	18.50%									
TOTAL	100.00%	100.00%									
SF-078231	T 32N, R 11W Sec. 28: N/2 NW/4	80.00	<u>TRACT 11</u>						3.095257%		
			Royalty;	12.50%	12.50%						
			Working Interest Before Payout:								
			El Paso Natural Gas Co.;	69.00%	69.00%						
			ORRI;	18.50%	18.50%						
TOTAL	100.00%	100.00%									
<u>TRACT 12</u>											
Royalty;	12.50%	12.50%									
Working Interest After Payout:											
El Paso Natural Gas Co.;	69.50%	69.50%									
ORRI;	18.00%	18.00%									
TOTAL	100.00%	100.00%									

Effective October 1, 1977

**NORTHWEST PIPELINE CORPORATION**  
**UNIT AREA EXPANSION SCHEDULE**

**SCHEDULE VI**  
**FIFTH EXPANSION OF PARTICIPATING AREA FOR THE PICTURED CLIFFS FORMATION**  
**COX CANYON UNIT AREA**

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	OWNERSHIP	DRILLING BLOCK	PERCENTAGE	PERCENTAGE COMMITTED	PRESENT ACTU PARTICIPATI
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RECAPITULATION

Township 32 North, Range 11 West, N.M.P.M.  
 Section 8: Lots 1 & 2 & S/2 SE/4  
 Section 9: Lots 1, 2, 3, 4, & S/2 S/2  
 Section 16: All  
 Section 17: E/2 & E/2 W/2  
 Section 20: NE/4 & E/2 SE/4  
 Section 21: All  
 Section 28: N/2 NW/4

Total Number of Acres in Participating Area: 2,584.60 acres  
 Total Number of Acres Committed in Participating Area: 2,584.60 acres

Percentage of Working Interest Committed: 100.00%  
 Percentage of Basic Royalty Committed: 100.00%  
 Percentage of Overriding Royalty Interest Committed: 100.00%

Effective October 1, 1977

NORTHWEST PIPELINE CORPORATION

August 22, 1977

ONE PARK CENTRAL, SUITE 1487  
DENVER, COLORADO 80202  
303-623-9303

Mr. Carl C. Traywick  
Assistant Oil and Gas Supervisor  
United States Geological Survey  
P.O. Drawer 1857  
Roswell, New Mexico 88201

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

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

Re: Cox Canyon Unit I Sec. No. 946  
San Juan County, New Mexico  
1977 Drilling Program

Gentlemen:

This is to advise you that the 1977 Drilling Program for the Cox Canyon Unit was approved by the regulatory agencies on the following dates:

U.S. Geological Survey	May 20, 1977
Oil Conservation Commission	May 16, 1977
Commissioner of Public Lands	May 10, 1977

Copies of this letter are being sent to all working interest owners in the Cox Canyon Unit.

Sincerely,

  
Betty R. Burnett  
Supervisor of Contracts and Units

BRB:me

cc: Working Interest Owners

COX CANYON UNIT

WORKING INTEREST OWNERS

Atlantic Richfield Company  
Attention: W. A. Walther, Jr.  
1860 Lincoln Street - Suite 501  
Denver, CO 80203

Continental Oil Company  
Attention: Mr. L. P. Thompson  
P. O. Box 460  
Hobbs, NM 88240

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

Colorado Oil & Gas Corporation  
Attention: North Region Land Department  
2100 Prudential Plaza  
P. O. Box 749  
Denver, CO 80201

Tenneco Oil Company  
Attention: Mr. J. A. Dutton  
Suite 1200, Lincoln Tower Building  
1860 Lincoln Street  
Denver, CO 80203

NORTHWEST PIPELINE CORPORATION

May 25, 1977

ONE PARK CENTRAL, SUITE 1487  
DENVER, COLORADO 80202  
303-623-9303

Mr. Carl C. Traywick  
Assistant Oil and Gas Supervisor  
United States Geological Survey  
Post Office Drawer 1857  
Roswell, New Mexico 88201

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

Oil Conservation Commission  
State of New Mexico  
Attention: Mr. Joe Ramey  
Post Office Box 2088  
Santa Fe, New Mexico 87501

Re: Cox Canyon Unit, I Sec. No. 946  
Notice of Completion of Additional  
Wells, Mesaverde Formation  
San Juan County, New Mexico

Gentlemen:

Pursuant to Section 11(a) of the Cox Canyon Unit Agreement, approved June 12, 1952, Northwest Pipeline Corporation, as unit operator, determined that nine (9) additional wells capable of producing unitized substances in paying quantities from the Mesaverde formation has been completed upon acreage committed to the unit. These wells are as follows:

The 32-11 Com No. 1A well is located 990 feet from the South Line and 1450 feet from the West Line, Section 20, Township 32 North, Range 11 West, N.M.P.M., San Juan County, New Mexico. This well was spudded on July 4, 1976 and completed on July 22, 1976 in the Mesaverde Formation at a plug back depth of 5773'. The Mesaverde Formation was perforated with one hole at each of the following depths: 5022', 5030', 5038', 5046', 5102', 5120', 5136', 5538', 5546', 5560', 5568', 5576', 5584', 5592', 5648', 5672', 5686', 5734', 5750', 5766'. These perforations were treated with 7½% HCL followed by

a sand-water fracturing. The well was shut-in July 14, 1976 for 8 days with a SIPT of 935 psig and SIPC of 935 psig. On July 22, 1976, the well was tested and after flowing for three (3) hours through a 3/4" variable choke on the 2-3/8 inch tubing, the well gauged 3908 MCFD with a calculated AOF of 9716 MCFD.

The Cox Canyon Unit No. 1A well is located 880 feet from the North Line and 1525 feet from the West Line, Section 16, Township 32 North, Range 11 West, N.M.P.M., San Juan County, New Mexico. This well was spudded on August 16, 1976 and completed on September 7, 1976 in the Mesaverde Formation at a plug back depth of 5832'. The Mesaverde Formation was perforated with one hole at each of the following depths: 5160', 5168', 5176', 5194', 5202', 5210', 5218', 5225', 5437', 5443', 5459', 5608', 5614', 5620', 5626', 5638', 5644', 5652', 5660', 5668', 5682', 5690', 5699', 5762'. These perforations were treated with 7½% HCL followed by a sand-water fracturing. The well was shut-in August 29, 1976 for 9 days with a SIPT of 978 psig and SIPC of 994 psig. On September 7, 1976, the well was tested and after flowing for three (3) hours through a 3/4" variable choke on the 2-3/8 inch tubing, the well gauged 4,189 MCFD with a calculated AOF of 10,392 MCFD.

The Cox Canyon Unit No. 3A well is located 1110 feet from the South Line and 1190 feet from the East Line, Section 9, Township 32 North, Range 11 West, N.M.P.M., San Juan County, New Mexico. This well was spudded on August 2, 1976 and completed on September 20, 1976 in the Mesaverde Formation at a plug back depth of 5763'. The Mesaverde Formation was perforated with one hole at each of the following depths: 5142', 5148', 5156', 5164', 5173', 5198', 5206', 5213', 5224', 5433', 5470', 5478', 5484', 5490', 5500', 5572', 5578', 5588', 5594', 5604', 5614', 5620', 5633', 5740'. These perforations were treated with 7½% HCL followed by a sand-water fracturing. The well was shut-in September 10, 1976 for 10 days with a SIPT of 821 psig and SIPC of 829 psig. On September 21, 1976, the well was tested and after flowing for three (3) hours through a 3/4" variable choke on the 2-3/8 inch tubing, the well gauged 4715 MCFD with a calculated AOF of 17,373 MCFD.

The Cox Canyon Unit No. 4A well is located 936 feet from the South Line and 1178 feet from the East Line, Section 21, Township 32 North, Range 11 West, N.M.P.M., San Juan County, New Mexico. This well was spudded on September 21, 1976 and completed on October 11, 1976 in the Mesaverde Formation at a plug back depth of 5709'. The Mesaverde Formation was perforated with one hole at each of the following depths: 5027', 5096', 5104', 5113', 5121', 5132', 5138', 5146', 5152', 5158', 5166', 5455', 5472', 5540', 5548', 5558', 5564', 5574', 5586', 5592', 5598', 5606', 5614', 5661', 5682'. These perforations were treated with 7½% HCL followed by a sand-water fracturing. The well was shut-in October 4, 1976 for 8 days with a SIPT of 635 psig and SIPC of 702 psig. On October 11, 1976, the well was tested and after flowing for three (3) hours through a 3/4" variable choke on the 2-3/8 inch tubing, the well gauged 4163 MCFD with a calculated AOF of 11,111 MCFD.

The Cox Canyon Unit No. 5A well is located 1021 feet from the North Line and 825 feet from the West Line, Section 21, Township 32 North, Range 11 West, N.M.P.M., San Juan County, New Mexico. This well was spudded on June 21, 1976 and completed on July 13, 1976 in the Mesaverde Formation at a plug back depth of 6060'. The Mesaverde Formation was perforated with one hole at each of the following depths: 5336', 5352', 5392', 5414', 5422', 5448', 5456', 5476', 5852', 5858', 5864', 5876', 5882', 5888', 5904', 5911', 5918', 5972', 5998', 6046'. These perforations were treated with 7½% HCL followed by a sand-water fracturing. The well was shut-in July 4, 1976 for 8 days with a SIPT of 772 psig and SIPC of 884 psig. On July 13, 1976, the well was tested and after flowing for three (3) hours through a 3/4" variable choke on the 2-3/8 inch tubing, the well gauged 3884 MCFD with a calculated AOF of 13,317 MCFD.

The Cox Canyon Unit No. 6A well is located 1450 feet from the South Line and 790 feet from the East Line, Section 16, Township 32 North, Range 11 West, N.M.P.M., San Juan County, New Mexico. This well was spudded on September 9, 1976 and completed on September 28, 1976 in the Mesaverde Formation at a plug back depth of 5756'. The Mesaverde Formation was perforated with one hole at each of the following depths: 5097', 5112', 5120', 5126', 5136', 5142', 5148', 5154', 5162', 5168', 5223', 5234', 5276', 5548', 5556', 5564', 5572', 5578', 5584', 5591', 5597', 5617', 5625', 5631'. These perforations

United States Geological Survey  
Commissioner of Public Lands  
Oil Conservation Commission  
May 25, 1977  
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were treated with 7½% HCL followed by a sand-water fracturing. The well was shut-in September 21, 1976 for 7 days with a SIPT of 592 psig and SIPC of 750 psig. On September 28, 1976, the well was tested and after flowing for three (3) hours through a 3/4" variable choke on the 2-3/8 inch tubing, the well gauged 3591 MCFD with a calculated AOF of 11,093 MCFD.

The Cox Canyon Unit No. 7A well is located 840 feet from the South Line and 2110 feet from the East Line, Section 17, Township 32 North, Range 11 West, N.M.P.M., San Juan County, New Mexico. This well was spudded on July 25, 1976 and completed on August 12, 1976 in the Mesaverde Formation at a plug back depth of 5961'. The Mesaverde Formation was perforated with one hole at each of the following depths: 5244', 5250', 5298', 5314', 5322', 5332', 5358', 5365', 5372', 5390', 5513', 5598', 5752', 5760', 5768', 5776', 5784', 5820', 5828', 5836', 5861', 5880', 5902', 5916'. These perforations were treated with 7½% HCL followed by a sand-water fracturing. The well was shut-in August 6, 1976 for 7 days with a SIPT of 812 psig and SIPC of 904 psig. On August 12, 1976, the well was tested and after flowing for three (3) hours through a 3/4" variable choke on the 2-3/8 inch tubing, the well gauged 3581 MCFD with a calculated AOF of 12,804 MCFD.

The Cox Canyon Unit No. 8A well is located 1850 feet from the North Line and 660 feet from the East Line, Section 17, Township 32 North, Range 11 West, N.M.P.M., San Juan County, New Mexico. This well was spudded on August 5, 1976 and completed on September 1, 1976 in the Mesaverde Formation at a plug back depth of 5877'. The Mesaverde Formation was perforated with one hole at each of the following depths: 5162', 5232', 5238', 5246', 5266', 5272', 5280', 5300', 5372', 5381', 5421', 5496', 5656', 5664', 5672', 5680', 5688', 5694', 5700', 5706', 5736', 5742', 5748', 5810'. These perforations were treated with 1500 gallons 7½% HCL followed by a sand-water fracturing. The well was shut-in August 17, 1976 for 14 days with a SIPT of 835 psig and SIPC of 841 psig. On September 1, 1976, the well was tested and after flowing for three (3) hours through a 3/4" variable choke on the 2-3/8 inch tubing, the well gauged 4391 MCFD with a calculated AOF of 17,051 MCFD.

United States Geological Survey  
Commissioner of Public Lands  
Oil Conservation Commission  
May 25, 1977  
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The Cox Canyon Unit No. 9A well is located 1050 feet from the North Line and 941 feet from the West Line, Section 20, Township 32 North, Range 11 West, N.M.P.M., San Juan County, New Mexico. This well was spudded on July 14, 1976 and completed on August 2, 1976 in the Mesaverde Formation at a plug back depth of 5823'. The Mesaverde Formation was perforated with one hole at each of the following depths: 5082', 5090', 5100', 5156', 5172', 5180', 5196', 5208', 5216', 5270', 5465', 5600', 5616', 5632', 5650', 5658', 5666', 5716', 5786', 5799'. These perforations were treated with 7½% HCL followed by a sand-water fracturing. The well was shut-in July 27, 1976 for 7 days with a SIPT of 660 psig and SIPC of 848 psig. On August 2, 1976, the well was tested and after flowing for three (3) hours through a 3/4" variable choke on the 2-3/8 inch tubing, the well gauged 4684 MCFD with a calculated AOF of 12,122 MCFD.

The entire Cox Canyon Unit Area participates in the Mesaverde Participating Area. Therefore, the Participating Area is not enlarged by these infill wells; and the percentage of participation remains the same.

Copies of this letter are being sent to the working interest owners shown on the attached sheet.

Sincerely,



Betty R. Burnett  
Supervisor of Contracts and Units

BRB:me

Attachment

cc: Working Interest Owners

COX CANYON UNIT

WORKING INTEREST OWNERS

Atlantic Richfield Company  
Attention: W. A. Walther, Jr.  
1860 Lincoln Street - Suite 501  
Denver, CO 80203

Continental Oil Company  
Attention: Mr. L. P. Thompson  
P. O. Box 460  
Hobbs, NM 88240

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

Colorado Oil & Gas Corporation  
Attention: North Region Land Department  
2100 Prudential Plaza  
P. O. Box 749  
Denver, CO 80201

Tenneco Oil Company  
Attention: Mr. J. A. Dutton  
Suite 1200, Lincoln Tower Building  
1860 Lincoln Street  
Denver, CO 80203



United States Department of the Interior

GEOLOGICAL SURVEY  
Conservation Division  
P. O. Box 26124  
Albuquerque, New Mexico 87125

261  
MAY 21 1977

MAY 20 1977

Northwest Pipeline Corporation  
Attention: Ms. Betty R. Burnett  
One Park Central, Suite 1487  
Denver, Colorado 80202

Gentlemen:

The 1977 plan of development submitted for the Cox Canyon unit area, San Juan County, New Mexico, was approved on this date subject to like approval by the appropriate State officials.

Such plan proposes the drilling of nine Pictured Cliffs wells on lands outside the Pictured Cliffs participating area, and one Mesaverde well on lands within the participating area. One approved copy is enclosed.

Sincerely yours,

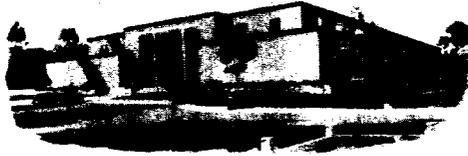
Orig. Signed - JAMES W. SUTHERLAND

Area Oil and Gas Supervisor

Enclosure

cc:  
NMOCC, Santa Fe (ltr only) ←  
Com. Pub. Lands, Santa Fe (ltr. only)

State of New Mexico



Commissioner of Public Lands

PHIL R. LUCERO  
COMMISSIONER

May 17, 1977

P. O. BOX 1148  
SANTA FE, NEW MEXICO 87501

Northwest Pipeline Corporation  
One Park Central, Suite 1487  
Denver, Colorado 80202

Re: Cox Canyon Unit  
San Juan County, New Mexico  
1977 Drilling Program

ATTENTION: Betty R. Burnett

Gentlemen:

We are in receipt of your letter of May 11, 1977, whereby you advise this office that on your 1977 Drilling Program, which was approved by this office on May 10, 1977, the Pictured Cliffs # 28 Com Well in the NW/4 of Section 28-32N-11W, should be numbered the #19 Com Well. We have this date changed our records to read the #19 Com Well instead of the #28 Com Well.

We are returning the two copies of the drilling program which you submitted showing the date they were received in this office.

Very truly yours,

PHIL R. LUCERO  
COMMISSIONER OF PUBLIC LANDS

BY:  
RAY D. GRAHAM, Director  
Oil and Gas Division

PRL/RDG/s

encl.

cc: USGS-Albuquerque, New Mexico  
USGS-Roswell, New Mexico  
OCC- Santa Fe, New Mexico ✓

**OIL CONSERVATION COMMISSION**

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

May 16, 1977

Northwest Pipeline Corporation  
One Park Central, Suite 1487  
Denver, Colorado 80202

Attention: Miss Betty Burnett

Re: 1977 Drilling Program,  
Cox Canyon Unit, San Juan  
County, New Mexico.

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the 1977 Drilling Program dated May 5, 1977, for the Cox Canyon Unit, San Juan County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

Two approved copies of the program are returned herewith.

Very truly yours,

JOE D. RAMEY  
Secretary-Director

JDR/JEK/og

cc: United States Geological Survey  
Roswell, New Mexico

Commissioner of Public Lands  
Santa Fe, New Mexico

NORTHWEST PIPELINE CORPORATION

ONE PARK CENTRAL, SUITE 1487  
DENVER, COLORADO 80202  
(303) 623-9303

May 5, 1977

Mr. Carl C. Traywick  
Assistant Oil and Gas Supervisor  
United States Geological Survey  
P.O. Drawer 1857  
Roswell, New Mexico 88201

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

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

Re: Cox Canyon Unit I Sec. No. 946  
San Juan County, New Mexico  
1977 Drilling Program

Gentlemen:

By letter dated May 10, 1976, Northwest Pipeline Corporation, Unit Operator, filed a drilling program for the captioned unit for the calendar year 1976 providing for the drilling of nine (9) Mesaverde "Infill" wells. All nine (9) wells were timely drilled and completed.

As of this date, the total number of wells drilled in the Cox Canyon Unit is as follows:

Pictured Cliffs, Commercial	9
Mesaverde, Commercial	<u>17</u>
Total	26

Pursuant to Section 10 of the Cox Canyon Unit Agreement, Northwest Pipeline Corporation has contacted all of the working interest owners and has received the necessary concurrence to propose drilling the following wells during the calendar year 1977:

<u>Well No.</u>	<u>Drilling Block</u>	<u>Formation</u>
20	NE/4 Section 16-32N-11W	Pictured Cliffs
21	NW/4 Section 16-32N-11W	Pictured Cliffs (Chacra, if commercial)
22	NE/4 Section 17-32N-11W	Pictured Cliffs
23 Com	NW/4 Section 17-32N-11W	Pictured Cliffs
24 Com	SW/4 Section 17-32N-11W	Pictured Cliffs
25	SE/4 Section 9-32N-11W	Pictured Cliffs (Chacra, if commercial)
26	SW/4 Section 9-32N-11W	Pictured Cliffs
27	SE/4 Section 8-32N-11W	Pictured Cliffs
<del>28</del> Com	NW/4 Section 28-32N-11W	Pictured Cliffs
19 Fields Com 5A	W/2 Section 28-32N-11W	Mesaverde

All of the proposed Pictured Cliffs wells are located outside the existing boundaries of the Pictured Cliffs Participating Area. For the drilling of wells Nos. 23 and 24 Com in the W/2 Section 17, the Cox Canyon Unit Acreage (E/2 W/2 17) will be communitized with the W/2 W/2 Section 17 which is under lease to Mesa Petroleum Co., Great Western Drilling Co., and Davoil, Inc. For the drilling of the No. 28 Com well, the S/2 NW/4 Section 28 under lease to El Paso Natural Gas Company will be communitized with the N/2 NW/4 Section 28, which is located within the boundary of the Cox Canyon Unit. The Fields Com 5A Mesaverde Infill acreage will be drilled by El Paso Natural Gas Company as working interest owner of the non-unit acreage covering the SW/4 and S/2 NW/4 Section 28. This acreage was communitized under Contract No. 14-08-001-2431 with the N/2 NW/4 of Section 28 located within the Mesaverde Participating Area to form the drilling block for the Fields Com 5A well. Northwest proposes to drill wells Nos. 21 and 25 to a depth sufficient to test the Chacra formation. If these wells are not productive in the Chacra, we will plug back the wells and attempt completion in the Pictured Cliffs.

If productive, the Pictured Cliffs wells will create an expansion or expansions of the Pictured Cliffs Participating Area.

In addition to the above wells, Northwest Pipeline Corporation, as Unit Operator, will drill any wells that may be required to prevent drainage of unitized substances and any other wells deemed necessary or which may be requested by the working interest owners.

United States Geological Survey  
Commissioner of Public Lands  
Oil Conservation Commission  
May 5, 1977  
page three

If this drilling program is acceptable, please signify your approval as required under Section 10 of the Cox Canyon Unit Agreement in the space provided on the attached sheet and return an approved copy to this office.

Copies of this letter are being sent to the working interest owners shown on the attached list.

Sincerely,



Betty R. Burnett  
Supervisor of Contracts and Units

BRB:me

cc: Working Interest Owners (see attached list)

Attachments

COX CANYON UNIT

Working Interest Owners

Atlantic Richfield Company  
Attention: W. A. Walther, Jr.  
1860 Lincoln Street - Suite 501  
Denver, CO 80203

Continental Oil Company  
Attention: Mr. L. P. Thompson  
P. O. Box 460  
Hobbs, NM 88240

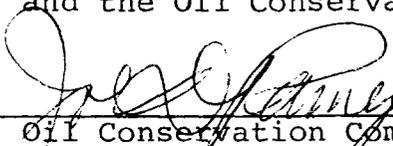
El Paso Natural Gas Company  
Attention: James R. Permenter  
P. O. Box 1492  
El Paso, TX 79978

Colorado Oil & Gas Corporation  
(Attention: North Region-Land Department)  
2100 Prudential Plaza  
P. O. Box 749  
Denver, CO 80201

Tenneco Oil Company  
Attention: Mr. J. A. Dutton  
Suite 1200, Lincoln Tower Building  
1860 Lincoln Street  
Denver, CO 80203

APPROVED: \_\_\_\_\_ DATE: \_\_\_\_\_  
Area Oil and Gas Supervisor  
United States Geological Survey  
Subject to like approval by the  
Commissioner of Public Lands and  
the Oil Conservation Commission

APPROVED: \_\_\_\_\_ DATE: \_\_\_\_\_  
Commissioner of Public Lands  
Subject to like approval by the  
United States Geological Survey  
and the Oil Conservation Commission

APPROVED:  DATE: May 16, 1977  
Oil Conservation Commission  
Subject to like approval by the  
United States Geological Survey and  
the Commissioner of Public Lands

The foregoing approvals are for the Cox Canyon Unit I Sec. No. 946  
San Juan County, New Mexico 1977 Drilling Program

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NORTHWEST PIPELINE CORPORATION

ONE PARK CENTRAL, SUITE 1487  
DENVER, COLORADO 80202  
(303) 623-9303

May 11, 1977

Mr. Carl C. Traywick  
Assistant Oil and Gas Supervisor  
United States Geological Survey  
Post Office Drawer 1857  
Roswell, New Mexico 88201

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

Oil Conservation Commission  
State of New Mexico  
Attention: Mr. Joe Ramey  
Post Office Box 2088  
Santa Fe, New Mexico 87501

Re: Cox Canyon Unit  
San Juan County, New Mexico  
1977 Drilling Program

Gentlemen:

Northwest filed its 1977 Drilling Program for the Cox Canyon Unit on May 5. This program provided for the drilling of, among other wells, the Pictured Cliffs #28 Com Well in the NW/4 Section 28-32N-11W. This well should be numbered the #19 Com Well. Please note your records to reflect this correction. I apologize for any inconvenience this may have caused.

Sincerely,



Betty R. Burnett  
Supervisor of Contracts and Units

BRB:me

cc: Working Interest Owners

COX CANYON UNIT

Working Interest Owners

Atlantic Richfield Company  
Attention: W. A. Walther, Jr.  
1860 Lincoln Street - Suite 501  
Denver, CO 80203

Continental Oil Company  
Attention: Mr. L. P. Thompson  
P. O. Box 460  
Hobbs, NM 88240

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

Colorado Oil & Gas Corporation  
(Attention: North Region-Land Department)  
2100 Prudential Plaza  
P. O. Box 749  
Denver, CO 80201

Tenneco Oil Company  
Attention: Mr. J. A. Dutton  
Suite 1200, Lincoln Tower Building  
1860 Lincoln Street  
Denver, CO 80203



# United States Department of the Interior

GEOLOGICAL SURVEY  
Drawer 1257  
Roswell, New Mexico 88201

May 28, 1976

Northwest Pipeline Corporation  
Attention: Mr. John W. Shepardson  
One Park Central, Suite 1487  
Denver, Colorado 80202

Gentlemen:

On this date, your 1976 plan of development and operation for the Cox Canyon unit area, San Juan County, New Mexico, wherein you propose the drilling of nine infill Mesaverde wells was approved. Such approval is subject to like approval by the appropriate State officials.

One approved copy is enclosed.

Sincerely yours,

(ORIG. SGD.) CARL C. TRAYWICK

CARL C. TRAYWICK  
Acting Area Oil and Gas Supervisor

cc:  
Farmington (w/cy plan)  
NMOCC, Santa Fe (ltr. only)  
Com. Pub. Lands, Santa Fe (ltr. only)

JAGillham:dap

*This Copy for*

State of New Mexico

TELEPHONE  
505-827-2748



PHIL R. LUCERO  
COMMISSIONER



Commissioner of Public Lands

May 13, 1976

P. O. BOX 1148  
SANTA FE, NEW MEXICO 87501

Northwest Pipeline Corporation  
One Park Central  
Suite 1487  
Denver, Colorado 80202

Re: Cox Canyon Unit  
San Juan County, New Mexico  
1976 Drilling Program

ATTENTION: Mr. John W. Shepardson

Gentlemen:

The Commissioner of Public Lands has this date approved your 1976 Drilling Program for the Cox Canyon Unit, San Juan County, New Mexico. Your program proposes the drilling of nine Mesaverde infill wells. This approval is subject to like approval by the United States Geological Survey.

Enclosed is one approved copy for your files.

Please remit a Three (\$3.00) Dollar filing fee.

Very truly yours,

PHIL R. LUCERO  
COMMISSIONER OF PUBLIC LANDS

BY:  
RAY D. GRAHAM, Director  
Oil and Gas Division

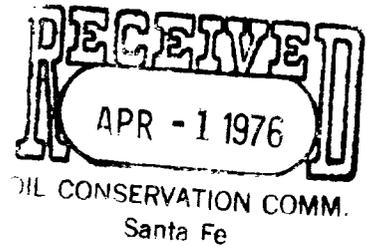
PRL/RDG/s  
encl.  
cc:

USGS-Roswell, New Mexico  
OCC- Santa Fe, New Mexico ✓

Northwest Pipeline Corporation



ONE PARK CENTRAL  
SUITE 1487  
DENVER, COLORADO 80202  
303-623-9303



March 26, 1976

Mr. Carl C. Traywick  
Acting Area Oil and Gas Supervisor  
United States Geological Survey  
Post Office Drawer 1857  
Roswell, New Mexico 88201

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

Oil Conservation Commission  
State of New Mexico  
Attention: Mr. Joe D. Ramey  
Post Office Box 2088  
Santa Fe, New Mexico 87501

Gentlemen:

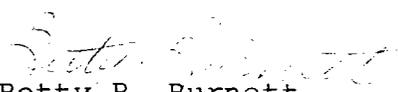
Re: Cox Canyon Unit No. I Sec. 946  
San Juan County, New Mexico

This is to advise that the Third and Fourth Expansions of the Pictured Cliffs formation of the Cox Canyon Unit were approved by the regulatory agencies on the following dates:

Commissioner of Public Lands	January 23, 1976
Oil Conservation Commission	March 11, 1976
United States Geological Survey	February 12, 1976

Copies of this letter are being sent to the working interest owners shown on the attached sheet.

Very truly yours,

  
Betty R. Burnett  
Supervisor of Contracts and Units

BRB:cak  
Attachment

COX CANYON UNIT

Working Interest Owners

Atlantic Richfield Company  
Attention: W. A. Walther, Jr.  
1860 Lincoln Street - Suite 501  
Denver, CO 80203

Continental Oil Company  
Attention: Mr. L. P. Thompson  
P. O. Box 460  
Hobbs, NM 88240

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

Colorado Oil & Gas Corporation  
(Attention: North Region-Land Department)  
2100 Prudential Plaza  
P. O. Box 749  
Denver, CO 80201

Tenneco Oil Company  
Attention: Mr. J. A. Dutton  
Suite 1200, Lincoln Tower Building  
1860 Lincoln Street  
Denver, CO 80203



United States Department of the Interior  
P. O. Drawer 1857  
Roswell, New Mexico 88201

March 19, 1976

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Northwest Pipeline Corporation  
Attention: Mr. John W. Shepardson  
One Oak Central, Suite 1487  
Denver, Colorado 80202

Gentlemen:

This is in reference to your letter of February 26, 1976, which transmitted corrected copies of schedules IV and V (for third and fourth expansions of the Pictured Cliffs formation, Cox Canyon unit) reflecting tract 10 as Federal oil and gas lease New Mexico 03189. This was erroneously shown as New Mexico 03198. We have substituted the corrected copies in our files, and have forwarded corrected copies to the proper Federal and State offices.

Sincerely yours,

(ORIG. SGD.) CARL C. TRAYWICK

CARL C. TRAYWICK  
Acting Area Oil and Gas Supervisor

cc:  
BLM, Santa Fe (w/cy of schedules)  
NMOCC, Santa Fe (~~w/cy of schedules~~)  
Com. Pub. Lands, Santa Fe (~~w/cy of schedules~~)  
Farmington (w/cy of schedules)

RLindau:dlk

**OIL CONSERVATION COMMISSION**

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

March 11, 1976

Northwest Pipeline Corporation  
One Park Central, Suite 1487  
Denver, Colorado 80202

Attention: Mr. John W. Shepardson

Re: Third and Fourth Expansions,  
Pictured Cliffs Participating Area,  
Cox Canyon Unit, San Juan County,  
New Mexico.

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Third and Fourth Expansions of the Pictured Cliffs Participating Area for the Cox Canyon Unit, San Juan County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

Two approved copies of the application are returned herewith.

Very truly yours,

JOE D. RAMEY  
Secretary-Director

JDR/JEK/og

cc: Commissioner of Public Lands  
Santa Fe, New Mexico

United States Geological Survey  
Roswell, New Mexico

Northwest Pipeline Corporation



ONE PARK CENTRAL  
SUITE 1487  
DENVER, COLORADO 80202  
303-623-9303



January 14, 1976

Mr. Carl C. Traywick  
Acting Area Oil and Gas Supervisor  
United States Geological Survey  
Post Office Drawer 1857  
Roswell, New Mexico 88201

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

Oil Conservation Commission  
State of New Mexico  
Attention: Mr. Joe Ramey  
Post Office Box 2088  
Santa Fe, New Mexico 87501

Gentlemen:

Re: Cox Canyon Unit No. I Sec. 946  
San Juan County, New Mexico  
APPLICATION FOR THE THIRD  
EXPANSION OF THE PICTURED  
CLIFFS PARTICIPATING AREA  
Effective December 1, 1974

APPLICATION FOR THE FOURTH  
EXPANSION OF THE PICTURED  
CLIFFS PARTICIPATING AREA  
Effective January 1, 1975

Pursuant to Section 11 of the Cox Canyon Unit Agreement, Northwest Pipeline Corporation, as Unit Operator, determined on the dates set out below that the following wells capable of producing unitized substances in paying quantities from the Pictured Cliffs Formation have been completed upon acreage committed to this unit, and concludes that the Pictured Cliffs Participating Area should be expanded as follows:

THIRD EXPANDED PARTICIPATING AREA -- Effective December 1, 1974

<u>Drilling Block</u>	<u>Acres</u>	<u>Well Nos.</u>
SE/4 Sec. 16-32N-11W	160.00	Cox Canyon Unit Well No. 16

Pertinent well data is as follows:

The Cox Canyon Unit No. 16 Well, located 1680' from the South Line and 880' from the East Line of Section 16, Township 32 North, Range 11 West, N.M.P.M., San Juan County, New Mexico, was spudded on December 4, 1974 and completed on December 27, 1974 at a total depth of 3,370'. The Pictured Cliffs formation was perforated in the interval from 3,262'-3,298' and was treated with a sand-water fracturing process on December 18, 1974. The well was shut-in on December 20, 1974 for a period of seven (7) days and was tested on December 27, 1974 with a shut-in casing pressure of 850 psia. After flowing for three (3) hours through a 0.750 inch choke on the 2.875 inch casing, the well gauged 3,369 MCF/Day with a calculated working pressure of 353 psia. The absolute open flow potential calculated to be 3,957 MCF/Day.

FOURTH EXPANDED PARTICIPATING AREA - - Effective January 1, 1975

<u>Drilling Block</u>	<u>Acres</u>	<u>Well Nos.</u>
SW/4 Sec. 16-32N-11W	160.00	Cox Canyon Unit Well No. 17
SE/4 Sec. 17-32N-11W	160.00	Cox Canyon Unit Well No. 18

Pertinent well data is as follows:

The Cox Canyon Unit No. 17 Well, located 1130' from the South Line and 1140' from the West Line, Section 16, Township 32 North, Range 11 West, N.M.P.M., San Juan County, New Mexico, was spudded on November 24, 1974 and completed on January 6, 1975 at a total depth of 3,707'. The Pictured Cliffs formation was perforated in the intervals 3,576'-3,596' and 3,606'-3,616' which were treated with a sand-water fracturing process on December 18, 1974. The well was shut-in on December 26, 1974 for a period of eleven days and was tested on January 6, 1975 with a shut-in casing pressure of 872 psia. The well gauged 1,137 MCF/Day with a calculated working pressure of 121 psia, after flowing for three (3) hours through a 0.750 inch choke on the 2.875 inch casing. The calculated absolute open flow potential is 1,156 MCF/Day.

The Cox Canyon Unit No. 18 Well, located 1530' from the South Line and 820' from the East Line, Section 17, Township 32 North, Range 11 West, N.M.P.M., San Juan County, New Mexico, was spudded on November 15, 1974 and completed on January 13, 1975 at a total depth of 3,597'. The Pictured Cliffs formation was perforated in the intervals, 3,458'-3,482' and 3,514'-3,526' which were treated with a sand-water fracturing process on December 18, 1974. The well was shut-in on January 3, 1975 for ten (10) days and was tested on January 13, 1975 with a shut-in casing pressure of 928 psia. After flowing for three (3) hours through a 0.750 inch choke on 2.875 inch casing, the well gauged 797 MCF/Day with a calculated working pressure of 85 psia. The absolute open flow potential calculates to be 803 MCF/Day.

In support of this application, the following exhibits are made a part hereof:

EXHIBIT "A"

Ownership map reflecting the boundaries of the Unit and the proposed Expansions of the Participating Area of the Pictured Cliffs formation within the Cox Canyon Unit.

EXHIBIT "B"

Geological Reports on the Third and Fourth Expansions of the Pictured Cliffs formation.

EXHIBIT "C"

Figure No. 1: Cox Canyon Structure Contour Map of the Pictured Cliffs formation.

Figure No. 2: Cox Canyon Isopachous map of the Pictured Cliffs net reservoir sand.

EXHIBIT "D"

Schedule of Pictured Cliffs Gas Production.

Schedules IV and V

These schedules show the Third and Fourth Expansions of the Participating Area, describe the Expanded Participating Areas and show the percentage of unitized substances allocated to each tract and the percentage of ownership.

If these Third and Fourth Expansions of the Participating Area of the Pictured Cliffs formation meet with your approval, please so indicate in the space provided on the attached sheet and return an approved copy of this letter for our files.

Acting Area Oil and Gas Supervisor  
Commissioner of Public Lands  
Oil Conservation Commission  
January 14, 1976  
Page 4

Copies of this letter are being sent to the working interest owners on the attached list.

Very truly yours,

NORTHWEST PIPELINE CORPORATION

  
John W. Shepardson  
Land Manager

BB:sc  
attach.

APPROVED: \_\_\_\_\_ DATE: \_\_\_\_\_  
Area Oil and Gas Supervisor  
United States Geological Survey  
Subject to like approval by the  
Commissioner of Public Lands and  
the Oil Conservation Commission

APPROVED: \_\_\_\_\_ DATE: \_\_\_\_\_  
Commissioner of Public Lands  
Subject to like approval by the  
United States Geological Survey  
and the Oil Conservation Commission

APPROVED:  \_\_\_\_\_ DATE: March 11, 1976  
Oil Conservation Commission  
Subject to like approval by the  
United States Geological Survey and  
The Commissioner of Public Lands

The foregoing approvals are for the Third and Fourth Expansions of the Participating Area of the Pictured Cliffs Formation for the Cox Canyon Unit No. I, Sec. 946, San Juan County, New Mexico.

COX CANYON UNIT

Working Interest Owners

Atlantic Richfield Company  
Attention: W. A. Walther, Jr.  
1860 Lincoln Street - Suite 501  
Denver, CO 80203

Continental Oil Company  
Attention: Mr. L. P. Thompson  
P. O. Box 460  
Hobbs, New Mexico 88240

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

Colorado Oil & Gas Corporation  
(Attention: North Region-Land Department)  
2100 Prudential Plaza  
P.O. Box 749  
Denver, Colorado 80201

Tenneco Oil Company  
Attention: Mr. J. A. Dutton  
Suite 1200, Lincoln Tower Building  
1860 Lincoln Street  
Denver, CO 80203

NORTHWEST PIPELINE CORPORATION

ONE PARK CENTRAL, SUITE 1487  
DENVER, COLORADO 80202  
303-623-2303

February 26, 1976

United States Geological Survey  
Acting Area Oil and Gas Supervisor  
Mr. Carl C. Traywick  
Post Office Drawer 1857  
Roswell, New Mexico 88201

Oil Conservation Commission  
State of New Mexico  
Attention: Mr. Joe Ramey  
Post Office Box 2088  
Santa Fe, New Mexico 87501

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

Re: THIRD and FOURTH  
EXPANSIONS OF THE  
PICTURED CLIFFS FORMATION  
Cox Canyon Unit  
San Juan County, New Mexico

Gentlemen:

Reference is made to our letter of January 14, 1976 covering the Third and Fourth Expansions of the Pictured Cliffs Formation of the Cox Canyon Unit.

Attached are corrected copies of Page 2 of Schedules IV and V reflecting Tract 10 as Federal Oil and Gas Lease NM-03189. This was erroneously shown as NM-03198. Please substitute these pages for those furnished with our letter of January 14, 1976.

United States Geological Survey  
Oil Conservation Commission  
Commissioner of Public Lands  
February 26, 1976  
Page 2

Copies of these corrected pages are being sent to all of the working interest owners in the Cox Canyon Unit.

Very truly yours,

NORTHWEST PIPELINE CORPORATION



Betty Burnett  
Supervisor of Contracts and Units

BB:sjm  
enclosures

cc: Working Interest Owners  
in Cox Canyon Unit

COX CANYON UNIT

Working Interest Owners

Atlantic Richfield Company  
Attention: W. A. Walther, Jr.  
1860 Lincoln Street - Suite 501  
Denver, CO 80203

Continental Oil Company  
Attention: Mr. L. P. Thompson  
P. O. Box 460  
Hobbs, NM 88240

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

Colorado Oil & Gas Corporation  
(Attention: North Region-Land Department)  
2100 Prudential Plaza  
P. O. Box 749  
Denver, CO 80201

Tenneco Oil Company  
Attention: Mr. J. A. Dutton  
Suite 1200, Lincoln Tower Building  
1860 Lincoln Street  
Denver, CO 80203

NON-PRODUCING PIPELINE CONSTRUCTION  
UNIT AREA EXPANSION SCHEDULE

SCHEDULE V

FOURTH EXPANSION OF PARTICIPATING AREA FOR THE PICTURED CLIFFS FORMATION  
COX CANYON UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	OWNERSHIP	DRILLING BLOCK	PERCENTAGE	PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
<u>TRACT 5</u>							
E-3093-3	T. 32N, R. 11W Sec. 16: NW/4 SW/4	40.00	Royalty; Working Interest; Northwest Pipeline Corp.; ORRI;		12.50%	70.50%	2.941176%
			TOTAL		<u>17.00%</u>	<u>100.00%</u>	
<u>TRACT 9</u>							
E-5388-2	T. 32N, R. 11W Sec. 16: SW/4 SW/4	40.00	Royalty Working Interest; Northwest Pipeline Corp.; ORRI;		12.50%	87.50%	2.941176%
			TOTAL		<u>00.00%</u>	<u>100.00%</u>	
<u>TRACT 10</u>							
NM-03189	T. 32N, R. 11W Sec. 20: NE/4, E/2 SE/4 Sec. 21: All	880.00	Royalty; Working Interest; Northwest Pipeline Corp.; ORRI;		12.50%	72.50%	64.705883%
			TOTAL		<u>15.00%</u>	<u>100.00%</u>	
<u>TRACT 11</u>							
NM-03190	T. 32N, R. 11W. Sec. 17: SE/4	160.00	Royalty Working Interest Northwest Pipeline Corp.; ORRI;		12.50%	72.50%	11.764707%
			TOTAL		<u>15.00%</u>	<u>100.00%</u>	

Effective January 1, 1975  
Corrected February 26, 1976

SCHEDULE V

FOURTH EXPANSION OF PARTICIPATING AREA FOR THE PICTURED CLIFFS FORMATION  
COX CANYON UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	OWNERSHIP	DRILLING BLOCK	PERCENTAGE	PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
E-3093-3	<u>T. 32N, R. 11W</u>			<u>TRACT 5</u>			
	Sec. 16: NW/4 SW/4	40.00	Royalty; Working Interest; Northwest Pipeline Corp.;		12.50%	12.50%	2.941176%
			ORRI;		70.50%	70.50%	
			TOTAL		<u>17.00%</u>	<u>17.00%</u>	
			TOTAL		<u>100.00%</u>	<u>100.00%</u>	
E-5388-2	<u>T. 32N, R. 11W</u>			<u>TRACT 9</u>			
	Sec. 16: SW/4 SW/4	40.00	Royalty Working Interest; Northwest Pipeline Corp.;		12.50%	12.50%	2.941176%
			ORRI;		87.50%	87.50%	
			TOTAL		<u>00.00%</u>	<u>00.00%</u>	
			TOTAL		<u>100.00%</u>	<u>100.00%</u>	
NM-03189	<u>T. 32N, R. 11W</u>			<u>TRACT 10</u>			
	Sec. 20: NE/4, E/2 SE/4	880.00	Royalty; Working Interest; Northwest Pipeline Corp.;		12.50%	12.50%	64.705883%
	Sec. 21: A11		ORRI;		72.50%	72.50%	
			TOTAL		<u>15.00%</u>	<u>15.00%</u>	
			TOTAL		<u>100.00%</u>	<u>100.00%</u>	
NM-03190	<u>T. 32N, R. 11W.</u>			<u>TRACT 11</u>			
	Sec. 17: SE/4	160.00	Royalty Working Interest Northwest Pipeline Corp.;		12.50%	12.50%	11.764707%
			ORRI;		72.50%	72.50%	
			TOTAL		<u>15.00%</u>	<u>15.00%</u>	
			TOTAL		<u>100.00%</u>	<u>100.00%</u>	

NORTHWEST PIPELINE CORPORATION  
UNIT AREA EXPANSION SCHEDULE

FOURTH EXPANSION OF PARTICIPATING AREA FOR THE PICTURED CLIFFS FORMATION  
COX CANYON UNIT AREA

SCHEDULE V

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE COMMITTED	
E-3093-3	<u>T. 32N, R. 11W</u> Sec. 16: NW/4 SW/4	40.00	Royalty;	12.50%	2.941176%
			Working Interest;	70.50%	
			Northwest Pipeline Corp.;	17.00%	
			ORRI;	100.00%	
			TOTAL	100.00%	
			<u>TRACT 5</u>		
E-5388-2	<u>T. 32N, R. 11W</u> Sec. 16: SW/4 SW/4	40.00	Royalty	12.50%	2.941176%
			Working Interest;	87.50%	
			Northwest Pipeline Corp.;	00.00%	
			ORRI;	100.00%	
			TOTAL	100.00%	
			<u>TRACT 9</u>		
NM-03189	<u>T. 32N, R. 11W</u> Sec. 20: NE/4, E/2 SE/4 Sec. 21: All	880.00	Royalty;	12.50%	64.705882%
			Working Interest;	72.50%	
			Northwest Pipeline Corp.;	15.00%	
			ORRI;	100.00%	
			TOTAL	100.00%	
			<u>TRACT 10</u>		
NM-03190	<u>T. 32N, R. 11W.</u> Sec. 17: SE/4	160.00	Royalty	12.50%	11.764707%
			Working Interest	72.50%	
			Northwest Pipeline Corp.;	15.00%	
			ORRI;	100.00%	
			TOTAL	100.00%	
			<u>TRACT 11</u>		

Effective January 1, 1975  
Corrected February 26, 1976

SCHEDULE IV

THIRD EXPANSION OF PARTICIPATING AREA FOR THE PICTURED CLIFFS FORMATION  
 COX CANYON UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	OWNERSHIP	DRILLING BLOCK		PRESENT ACTUAL PARTICIPATION
				PERCENTAGE	PERCENTAGE COMMITTED	
NM-03189	T. 32N, R. 11W	830.00	Royalty; Working Interest; Northwest Pipeline Corp.; ORRI;	TRACT 10		84.615384%
	Sec. 20: NE/4, E/2 SE/4			12.50%	12.50%	
	Sec. 21: All			72.50%	72.50%	
	TOTAL			15.00%	15.00%	
			TOTAL	100.00%	100.00%	

RECAPITULATION

Township 32 North, Range 11 West, N. M. P. M.  
 Section 16: SE/4  
 Section 20: NE/4, E/2 SE/4  
 Section 21: All

Total Number of Acres in Participating Area: 1,040.00  
 Total Number of Acres Committed in Participating Area: 1,040.00  
 Percentage of Working Interest Committed: 100.00%  
 Percentage of Basic Royalty Committed: 100.00%  
 Percentage of Overriding Royalty Interest Committed: 100.00%

Effective December 1, 1974  
 Corrected February 26, 1976

NON-UNIT AREA EXPANSION SCHEDULE

SCHEDULE IV

THIRD EXPANSION OF PARTICIPATING AREA FOR THE PICTURED CLIFFS FORMATION  
COX CANYON UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	OWNERSHIP	DRILLING BLOCK	PERCENTAGE	PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
NM-03139	T. 32N, R. 11W	890.00	Royalty;	TRACT 10			84.615384%
	Sec. 20: NE/4, E/2 SE/4		Working Interest;				
	Sec. 21: All		Northwest Pipeline Corp.;				
			ORRI;				
	TOTAL						

RECAPITULATION

Township 32 North, Range 11 West, N. M. P. M.  
 Section 16: SE/4  
 Section 20: NE/4, E/2 SE/4  
 Section 21: All

Total Number of Acres in Participating Area: 1,040.00  
 Total Number of Acres Committed in Participating Area: 1,040.00

Percentage of Working Interest Committed: 100.00%  
 Percentage of Basic Royalty Committed: 100.00%  
 Percentage of Overriding Royalty Interest Committed: 100.00%

Effective December 1, 1974  
 Corrected February 26, 1976

NORTHWEST PIPELINE CORPORATION  
 UNIT AREA EXPANSION SCHEDULE

SCHEDULE IV

THIRD EXPANSION OF PARTICIPATING AREA FOR THE PICTURED CLIFFS FORMATION  
 COX CANYON UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	OWNERSHIP	DRILLING BLOCK		PRESENT ACTUAL PARTICIPATION
				PERCENTAGE	PERCENTAGE COMMITTED	
NM-03189	T. 32N., R. 11W Sec. 20: NE/4, E/2 SE/4 Sec. 21: All	880.00	Royalty;	12.50%	12.50%	84.615384%
			Working Interest;	72.50%	72.50%	
			Northwest Pipeline Corp.;	15.00%	15.00%	
			ORRI;	100.00%	100.00%	
	TOTAL					

TRACT 10

RECAPITULATION

Township 32 North, Range 11 West, N. M. P. M.  
Section 16: SE/4  
Section 20: NE/4, E/2 SE/4  
Section 21: All

Total Number of Acres in Participating Area: 1,040.00  
 Total Number of Acres Committed in Participating Area: 1,040.00  
 Percentage of Working Interest Committed: 100.00%  
 Percentage of Basic Royalty Committed: 100.00%  
 Percentage of Overriding Royalty Interest Committed: 100.00%

Effective December 1, 1974  
 Corrected February 26, 1976



# United States Department of the Interior

GEOLOGICAL SURVEY

P. O. Drawer 1857  
Roswell, New Mexico 88201

February 12, 1976

Northwest Pipeline Corporation  
Attention: Mr. John W. Shepardson  
One Park Central, Suite 1487  
Denver, Colorado 80202

Gentlemen:

The third and fourth revisions of the Pictured Cliffs participating area for the Cox Canyon unit agreement, San Juan County, New Mexico, were approved on February 12, 1976, by the Acting Area Oil and Gas Supervisor, effective as of December 1, 1974, and January 1, 1975, respectively. By such revisions, the Pictured Cliffs participating area is enlarged from 880.00 acres to 1,360.00 acres.

The third revision of the Pictured Cliffs participating area adds 160.00 acres described as the SE $\frac{1}{4}$  sec. 16, T. 32N., R. 11 W., N.M.P.M., and is based on the completion of the Cox Canyon unit well No. 16 in the NE $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 16. Unit well No. 16 was completed on December 27, 1974, for a calculated absolute open flow potential of 3,957 MCF of gas per day from the Pictured Cliffs interval 3,262 to 3,298 feet.

The fourth revision of the Pictured Cliffs participating area adds 320.00 acres described as the SW $\frac{1}{4}$  sec. 16 and the SE $\frac{1}{4}$  sec. 17, T. 32N., R. 11W., N.M.P.M., and is based on the completion of the Cox Canyon unit wells No. 17 and No. 18 in the SW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 16 and the NE $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 17, respectively. Unit well No. 17 was completed on January 6, 1975, for a calculated absolute open flow potential of 1,156 MCF of gas per day from the Pictured Cliffs interval 3,576 to 3,616 feet. Unit well No. 18 was completed on January 13, 1975, for a calculated absolute open flow potential of 803 MCF of gas per day from the Pictured Cliffs interval 3,458 to 3,526 feet.

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

Please note that participation schedules IV and V submitted with your application reflect TRACT 10 as Federal oil and gas lease New Mexico 03198. Our records show TRACT 10 to be Federal lease New Mexico 03189. This information is provided so that you may note your records accordingly, if appropriate.

Sincerely yours,

(ORIG. SGD.) CARL C. TRAYWICK

CARL C. TRAYWICK  
Acting Area Oil and Gas Supervisor

cc:

BLM, Santa Fe (ltr. only)  
NMOCC, Santa Fe (ltr. only) ← This Copy for  
Com. Pub Lands, Santa Fe (ltr. only)  
Farmington (w/cy appln.)

ARStall:



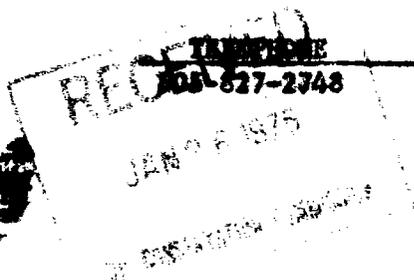
PHIL R. LUCERO  
COMMISSIONER

State of New Mexico



Commissioner of Public Lands

January 23, 1976



P. O. BOX 1148  
SANTA FE, NEW MEXICO 87501

Northwest Pipeline Corporation  
One Park Central  
Suite 1487  
Denver, Colorado 80202

Re: Cox Canyon Unit  
San Juan County, New Mexico  
APPLICATION FOR THE THIRD  
EXPANSION OF THE PICTURED  
CLIFFS PARTICIPATING AREA  
EFFECTIVE December 1, 1974

APPLICATION FOR THE FOURTH  
EXPANSION OF THE PICTURED  
CLIFFS PARTICIPATING AREA  
EFFECTIVE January 1, 1975

ATTENTION: Mr. John W. Shepardson

Gentlemen:

The Commissioner of Public Lands has this date approved your Third and Fourth Expansion of the Pictured Cliffs Participating Area for the Cox Canyon Unit. This approval is subject to like approval by the United States Geological Survey and the Oil Conservation Commission.

Enclosed is one approved copy for your files.

Very truly yours,

PHIL R. LUCERO  
COMMISSIONER OF PUBLIC LANDS

BY:  
RAY D. GRAHAM, Director  
Oil and Gas Division

PRL/RDG/s

encl.

cc: USGS-Roswell, New Mexico  
OCC- Santa Fe, New Mexico ✓

Northwest Pipeline Corporation



ONE PARK CENTRAL  
SUITE 1487  
DENVER, COLORADO 80202  
303-623-9303

July 16, 1975

Mr. Carl C. Traywick  
Acting Area Oil and Gas Supervisor  
United States Geological Survey  
Post Office Drawer 1857  
Roswell, New Mexico 88201

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

Oil Conservation Commission  
State of New Mexico  
Attention: Mr. A. L. Porter, Jr.  
Post Office Box 2088  
Santa Fe, New Mexico 87501

Gentlemen:

Enclosed is a corrected page 1 of Letter dated January 8, 1975 covering the first and second expansions of the Pictured Cliffs participating area for the Cox Canyon Unit. This now correctly reflects the location of the Cox Canyon Unit in San Juan County, New Mexico. Please substitute this page 1 for the page originally furnished you.

Copies of this letter and enclosure are being furnished the working interest owners shown on the attached sheet.

Please accept my apology for any inconvenience this may have caused you.

Very truly yours,

Betty R. Burnett  
Supervisor of Contracts & Units

BRB:mll

Enclosures

cc: Working Interest Owners

Northwest Pipeline Corporation



ONE PARK CENTRAL  
SUITE 1487  
DENVER, COLORADO 80202  
303-623-9303

January 8, 1975

Mr. Carl C. Traywick  
Acting Area Oil and Gas Supervisor  
United States Geological Survey  
Post Office Drawer 1857  
Roswell, New Mexico 88201

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

Oil Conservation Commission  
State of New Mexico  
Attention: Mr. A. L. Porter, Jr.  
Post Office Box 2088  
Santa Fe, New Mexico 87501

Gentlemen:

Re: Cox Canyon Unit No. I Sec.946  
San Juan County, New Mexico  
APPLICATION FOR THE FIRST  
EXPANSION OF THE PICTURED  
CLIFFS PARTICIPATING AREA  
Effective July 1, 1974

APPLICATION FOR THE SECOND  
EXPANSION OF THE PICTURED  
CLIFFS PARTICIPATING AREA  
Effective August 1, 1974

Pursuant to Section 11 of the Cox Canyon Unit Agreement,  
Northwest Pipeline Corporation, as Unit Operator, determined  
on the dates set out below that the following wells capable  
of producing unitized substances in paying quantities from  
the Pictured Cliffs Formation have been completed upon acreage  
committed to this unit, and concludes that the Pictured Cliffs  
Participating Area should be expanded as follows:

COX CANYON UNIT

Working Interest Owners

Atlantic Richfield Company  
Attention: W. A. Walther, Jr.  
1860 Lincoln Street - Suite 501  
Denver, CO 80203

Continental Oil Company  
Attention: Mr. L. P. Thompson  
P. O. Box 460  
Hobbs, New Mexico 88240

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

(Attention: North Region-Land Department)  
Colorado Oil & Gas Corporation  
2100 Prudential Plaza  
P.O. Box 749  
Denver, Colorado 80201

Tenneco Oil Company  
Attention: Mr. J. A. Dutton  
Suite 1200, Lincoln Tower Building  
1860 Lincoln Street  
Denver, CO 80203



# United States Department of the Interior

GEOLOGICAL SURVEY

Drawer 1857  
Roswell, New Mexico 88201

21  
July 3, 1975

Northwest Pipeline Corporation  
Attention: Mr. John W. Shepardson  
One Park Central, Suite 1467  
Denver, Colorado 80202

Gentlemen:

The first and second revisions of the Pictured Cliffs participating area for the Cox Canyon unit agreement, which were approved by this office on April 9, 1975, were inadvertently listed as being in Rio Arriba County, New Mexico. The correct county should be San Juan County.

Please change your records accordingly.

Sincerely yours,

CARL C. TRAYWICK  
Acting Area Oil and Gas Supervisor

cc:  
BLM, Santa Fe  
✓ NMOCC, Santa Fe  
Com. Pub. Lands, Santa Fe  
Farmington  
File

DMaldonado:ds

Northwest Pipeline Corporation



JOHN M. PARKER  
DIRECTOR OF EXPLORATION

ONE PARK CENTRAL, SUITE 1437  
DENVER, COLORADO 80202  
303-623-9303

July 1, 1975

Mr. Carl C. Traywick  
Acting Area Oil and Gas Supervisor  
United States Geological Survey  
Post Office Drawer 1857  
Roswell, New Mexico 88201

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

Oil Conservation Commission  
State of New Mexico  
Attention: Mr. Joe Ramey  
Post Office Box 2088  
Santa Fe, New Mexico 87501

Gentlemen:

Re: Cox Canyon Unit I Sec. No. 946  
San Juan County, New Mexico

Enclosed are copies of the Cox Canyon Unit Exhibit "B" which has been revised effective February 1, 1974.

This Exhibit "B" was mailed to the working interest owners on February 28, 1975 with the request to notify Northwest Pipeline Corporation of any changes. All corrections have been made and it is now presumed that this Exhibit "B" correctly reflects the interest of each working interest owner.

Copies of this letter and corrected Exhibit "B" are being sent to the working interest owners shown on the attached sheet.

Very truly yours,

A handwritten signature in cursive script that reads "Betty R. Burnett".

Betty/R. Burnett  
Supervisor of Contracts & Units

BRB:mll

Enclosures

cc: Working Interest Owners w/encl.

COX CANYON UNIT

Working Interest Owners

Atlantic Richfield Company  
Attention: W. A. Walther, Jr.  
1860 Lincoln Street - Suite 501  
Denver, CO 80203

Continental Oil Company  
Attention: Mr. L. P. Thompson  
P. O. Box 460  
Hobbs, New Mexico 88240

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

Colorado Oil & Gas Corporation  
2100 Prudential Plaza  
P.O. Box 749  
Denver, Colorado 80201

Tenneco Oil Company  
Attention: Mr. J. A. Dutton  
Suite 1200, Lincoln Tower Building  
1860 Lincoln Street  
Denver, CO 80203

EXHIBIT "B"  
 SCHEDULE SHOWING THE PERCENTAGE AND KIND OF OWNERSHIP OF OIL AND GAS INTEREST  
 IN ALL LANDS IN THE COX CANYON UNIT AREA

Tract No.	Description	No. of Acres	Serial No. and Lease Date	Land Owner Percentage of Royalty	Lessee of Record	Overriding Royalty Percentage	Working Interest Owner Under Option Agreement, Operating Agreement of Assignment and Percentage of Interest
1	T-32-N, R-11-W Sec. 16: NE/4 SE/4	40.00	E-3087-3 11-16-49	12.5%-State of New Mexico	Northwest Pipeline Corporation	17%	Gas Rights to Base of Mesaverde Formation* <u>Until Payout:</u> Northwest Pipeline Corporation 100% <u>After Payout:</u> Northwest Pipeline Corporation 75% Colorado Oil & Gas Corp. 25% Gas Rights Below Base of Mesaverde Formation: <u>Until Payout:</u> Northwest Pipeline Corporation 50% Atlantic Richfield Co. 50% <u>After Payout:</u> Northwest Pipeline Corporation 25% Atlantic Richfield Co. 50% Colorado Oil & Gas Corp. 25% Oil and Casinghead Gas Rights - <u>All Depths:</u> Atlantic Richfield Co. 50% Colorado Oil & Gas Corp. 50%
2	Sec. 16: NE/4 NW/4	40.00	E-3089-4 11-16-49	12.5%-State of New Mexico	Northwest Pipeline Corporation	17%	See Tract No. 1 for Ownership
3	Sec. 16: NW/4 NW/4, SE/4 NW/4, SW/4 NE/4, W/2 SE/4 & SE/4 SW/4	240.00	E-3091-3 11-16-49	12.5%-State of New Mexico	Northwest Pipeline Corporation	12% to 14.5%	See Tract No. 1 for Ownership
4	T-32-N, R-11-W Sec. 16: NE/4 SW/4 & SE/4 SE/4	80.00	E-3092-4 11-16-49	12.5%-State of New Mexico	Northwest Pipeline Corporation	17%	See Tract No. 1 for Ownership

## STATE LANDS (continued)

Page 2

Tract No.	Description	No. of Acres	Serial No. and Lease Date	Land Owner Percentage of Royalty	Lessee of Record	Overriding Royalty Percentage	Working Interest Owner Under Option Agreement, Operating Agreement or Assignment and Percentage of Interest
5	Sec. 16: NW/4 SW/4 & SE/4 NE/4	80.00	E-3093-3 11-16-49	12.5%-State of New Mexico	Northwest Pipeline Corporation	17%	See Tract No. 1 for Ownership
6	Sec. 16: NE/4 NE/4	40.00	E-3094-4 11-16-49	12.5%-State of New Mexico	Northwest Pipeline Corporation	14.5%	See Tract No. 1 for Ownership
7	Sec. 16: SW/4 NW/4	40.00	E-3095-4 11-16-49	12.5%-State of New Mexico	Northwest Pipeline Corporation	17%	See Tract No. 1 for Ownership
8	Sec. 16: NW/4 NE/4	40.00	E-5387-1 7-10-51	12.5%-State of New Mexico	Northwest Pipeline Corporation	5% to base MV 6.25% below MV	OIL AND GAS RIGHTS TO ALL DEPTHS Northwest Pipeline Corporation 100%
9	Sec. 16: SW/4 SW/4	40.00	E-5388-2 7-10-51	12.5%-State of New Mexico	Northwest Pipeline Corporation	None	OIL AND GAS TO ALL DEPTHS Northwest Pipeline Corp. 100%

TOTAL STATE LANDS - 640.00 ACRES

FEDERAL LANDS

10	T-32-N, R-11-W Sec. 8: Lots 1 & 2 & S/2 SE/4 Sec. 9: Lots 1,2,3,4 & S/2 S/2 Sec. 20: NE/4 & E/2 SE/4 Sec. 21: All	1384.60	NM-03189 2-1-43	USA - 12.5%	Northwest Pipeline Corporation	15%	See Tract No. 1 for Ownership
11	T-32-N, R-11-W Sec. 17: E/2 & E/2 W/2	480.00	NM-03190 9-1-48	USA - 12.5%	Northwest Pipeline Corporation	15%	See Tract No. 1 for Ownership

Working Interest Owner Under Option Agreement, Operating Agreement or Assignment and Percentage of Interest

Tract No.	Description	No. of Acres	Serial No. and Lease Date	Land Owner Percentage of Royalty	Lessee of Record	Overriding Royalty Percentage	Working Interest Owner Under Option Agreement, Operating Agreement or Assignment and Percentage of Interest
<u>FEDERAL LANDS (continued)</u>							
12	Sec. 28: N/2 NW/4	80.00	SF-078231 2-1-48	USA - 12.5%	Tenneco Oil Co. - $\frac{1}{2}$ Continental Oil Co. - $\frac{1}{2}$	17.5% on gas; 20.0% on oil; plus 1% on oil and gas that reduces to $\frac{1}{2}$ of 1% after \$25.00 P/A paid	** GAS RIGHTS TO BASE OF MESA; VERDE FORMATION E1 Paso Natural Gas Co. 100% GAS RIGHTS BELOW BASE OF MESA; VERDE FORMATION AND ALL OIL IN ALL DEPTHS Tenneco Oil Co. 50% Continental Oil Co. 50%
<u>TOTAL FEDERAL LANDS - 1,944.60</u>							

\* Northwest Pipeline Corporation's working interest in Tracts 1,1,2,3,4,5,7,10 and 11 is subject to a sliding scale ORRI as to gas produced in favor of Atlantic Richfield Company (formerly Sinclair Oil & Gas Company) until payout.

Also subject to Sublease and Operating Agreement dated April 12, 1955 whereby one-half ( $\frac{1}{2}$ ) of Northwest Pipeline Corporation's interest, acquired from Colorado Oil & Gas Corporation reverts to Colorado Oil & Gas Corporation after payout.

\*\* E1 Paso Natural Gas Company's working interest in Tract 12 is subject to a sliding scale ORRI as to gas produced in favor of Tenneco Oil Co. and Continental Oil Co.

EXHIBIT "B"  
 SCHEDULE SHOWING THE PERCENTAGE AND KIND OF OWNERSHIP OF OIL AND GAS INTEREST  
 IN ALL LANDS IN THE COX CANYON UNIT AREA

	<u>RECAPITULATION</u>	
<u>STATE LANDS</u>	<u>NUMBER OF ACRES</u>	<u>PERCENTAGE OF UNIT AREA</u>
(Tracts 1 to 9, inclusive)	640.00	24.76205
<u>FEDERAL LANDS</u>		
(Tracts 10 to 12, inclusive)	1,944.60	75.23795
TOTALS - - - - -	2,584.00	100.00000

\*\*\*\*\*

Northwest Pipeline Corporation



JOHN M. PARKER  
DIRECTOR OF EXPLORATION

ONE PARK CENTRAL, SUITE 1487  
DENVER, COLORADO 80202  
303-623-9303

April 29, 1975

361

Mr. Carl C. Traywick  
Acting Area Oil and Gas Supervisor  
P.O. Drawer 1857  
Roswell, New Mexico 88201

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

Oil Conservation Commission  
State of New Mexico  
Attention: Mr. A. L. Porter, Jr.  
P.O. Box 2088  
Santa Fe, New Mexico 87501

Gentlemen:

Re: Cox Canyon Unit No. 946  
San Juan County, New Mexico  
1975 Drilling Program

This is to advise the 1975 Drilling Program that the Cox Canyon Unit was approved by the Regulatory Agencies on the following dates:

Commissioner of Public Lands  
Oil Conservation Commission  
United States Geological Survey

January 30, 1975  
February 17, 1975  
April 23, 1975

Copies of this letter are being sent to the working interest owners shown on the attached sheet.

Very truly yours,

  
Betty R. Burnett  
Supervisor of Contracts & Units

BRB:ml1

Attachment



United States Department of the Interior

GEOLOGICAL SURVEY

Drawer 1857  
Roswell, New Mexico 88201

April 23, 1975

561

**Northwest Pipeline Corporation  
Attention: Ms. Betty R. Burnett  
One Park Central, Suite 1487  
Denver, Colorado 80202**

**Gentlemen:**

**One approved copy of your 1975 plan of development for the Cox Canyon unit area, San Juan County, New Mexico, is enclosed. Such plan, proposing the drilling of no additional wells, was approved on this date subject to like approval by the appropriate officials of the State of New Mexico.**

**Sincerely yours,**

(ORIG. SGD) CARL C. TRAYWICK

**CARL C. TRAYWICK  
Acting Area Oil and Gas Supervisor**

cc:

✓ NMOCC, Santa Fe (ltr only)  
Com. Pub. Lands, Santa Fe (ltr only)  
Farmington

JAGillham:ds

Northwest Pipeline Corporation



JOHN M. PARKER  
DIRECTOR OF EXPLORATION

ONE PARK CENTRAL, SUITE 1437  
DENVER, COLORADO 80202  
303-823-9303

April 17, 1975

Mr. Carl C. Traywick  
Acting Area Oil and Gas Supervisor  
United States Geological Survey  
Post Office Drawer 1857  
Roswell, New Mexico 88201

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

Oil Conservation Commission  
State of New Mexico  
Attention: Mr. A. L. Porter, Jr.  
Post Office Box 2088  
Santa Fe, New Mexico 87501

Gentlemen:

Re: First and Second Expansions  
Pictured Cliffs Participating  
Area  
Cox Canyon Unit  
Rio Arriba County  
New Mexico

This is to advise that the captioned expansions for the  
Cox Canyon Unit were approved by the Regulatory Agencies on  
the following dates:

United States Geological Survey -- April 9, 1975  
Oil Conservation Commission -- January 13, 1975  
Commissioner of Public Lands -- January 15, 1975

Copies of this letter are being sent to the working  
interest owners of the Cox Canyon Unit as shown on the  
attached sheet.

Very truly yours,

A handwritten signature in cursive script that reads "Betty R. Burnett".

Betty R. Burnett  
Supervisor of Contracts and Units

BRB:cak  
Attachment  
cc: Working Interest Owners

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE NEW MEXICO 87501

February 17, 1975

Northwest Pipeline Corporation  
One Park Central, Suite 1487  
Denver, Colorado 80202

Attention: Betty R. Burnett

Re: 1975 Drilling Program  
Cox Canyon Unit, San Juan  
County, New Mexico.

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Drilling Program for the calendar year 1975, providing for the drilling of no wells for the Cox Canyon Unit, San Juan County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

Two approved copies of the program are returned herewith.

Very truly yours,

A. L. PORTER, Jr.  
Secretary-Director

ALP/JEK/og

cc: Commissioner of Public Lands  
Santa Fe, New Mexico

United States Geological Survey  
Roswell, New Mexico

Northwest Pipeline Corporation



JOHN M. PARKER  
DIRECTOR OF EXPLORATION

January 24, 1975

ONE PARK CENTRAL  
SUITE 1487  
DENVER, COLORADO 80202  
303- 623-9303

Mr. Carl C. Traywick  
Acting Area Oil and Gas Supervisor  
United States Geological Survey  
Post Office Drawer 1857  
Roswell, New Mexico 88201

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

Oil Conservation Commission  
State of New Mexico  
Attention: Mr. A. L. Porter, Jr.  
Post Office Box 2088  
Santa Fe, New Mexico 87501

Re: Cox Canyon Unit I Sec. No. 946  
San Juan County, New Mexico  
1975 Drilling Program

Gentlemen:

By letter dated February 8, 1974, El Paso Natural Gas Company, the then Unit Operator, filed a drilling program covering the captioned unit for the calendar year 1974 providing for no wells. Northwest Pipeline Corporation, Unit Operator, by letter dated May 14, 1974, filed a Revised 1974 Drilling Program providing for the drilling of four (4) Pictured Cliffs wells. On August 29, 1974, Northwest Pipeline Corporation filed a Supplemental 1974 Drilling Program providing for the drilling of three (3) Pictured Cliffs wells. All of these wells were timely drilled.

Well Nos. 13, 14, and 15 occasioned the First Expansion of the Pictured Cliffs Participating Area and Well No. Com. 12 resulted in the Second Expansion of the Pictured Cliffs Participating Area. Well Nos. 16, 17 and 18 are being tested and will result in further expansion of the Participating Area for the Pictured Cliffs formation if determined to be commercial producers.

With the completion of the above described wells in the Cox Canyon Unit, the total number of wells is as follows:

Pictured Cliffs - commercial	9
Mesaverde - commercial	8
Total	<u>17</u>

Acting Area Oil and Gas Supervisor  
Commissioner of Public Lands  
Oil Conservation Commission  
January 24, 1975  
Page 2

Pursuant to Section 10 of the Cox Canyon Unit Agreement, Northwest Pipeline Corporation, as Unit Operator, is submitting this Drilling Program which provides that no wells be drilled during the 1975 calendar year.

All of the working interest owners have been contacted and this Drilling Program reflects their desires for no additional drilling, and Unit Operator and the working interest owners believe that all current Unit Obligations have been satisfied.

Northwest Pipeline Corporation, as Unit Operator, will drill any offset wells that may be required to prevent drainage of unitized substances, and any other wells deemed necessary or which are requested by the working interest owners.

If this Drilling Program is acceptable, please signify your approval as required under Section 10 of the Unit Agreement in the space provided on the attached sheet and return an approved copy to this office.

Copies of this letter are being sent to the working interest owners shown on the attached list.

Very truly yours,



Betty R. Burnett  
Supervisor of Contracts and Units

BRB:jg  
Attachments

APPROVED: \_\_\_\_\_ DATE: \_\_\_\_\_  
Area Oil and Gas Supervisor  
United States Geological Survey  
Subject to like approval by the  
Commissioner of Public Lands and  
the Oil Conservation Commission

APPROVED: \_\_\_\_\_ DATE: \_\_\_\_\_  
Commissioner of Public Lands  
Subject to like approval by the  
United States Geological Survey  
and the Oil Conservation Commission

APPROVED: A. H. Peter DATE February 17, 1975  
Oil Conservation Commission  
Subject to like approval by the  
United States Geological Survey and  
The Commissioner of Public Lands

The foregoing approvals are for the 1975 Drilling Program for  
the Cox Canyon Unit I, Sec. 946, San Juan County, New Mexico.

COX CANYON UNIT

Working Interest Owners

Atlantic Richfield Company  
Attention: J. G. Bradshaw  
1860 Lincoln Street - Suite 501  
Denver, CO 80203

Continental Oil Company  
Attention: Mr. L. P. Thompson  
P. O. Box 460  
Hobbs, New Mexico 88240

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

Colorado Oil & Gas Corporation  
Denver Club Building  
P. O. Box 749  
Denver, CO 80201

Tenneco Oil Company  
Attention: Mr. J. A. Dutton  
Suite 1200, Lincoln Tower Building  
1860 Lincoln Street  
Denver, CO 80203



State of New Mexico



TELEPHONE  
505-827-2748

Commissioner of Public Lands

January 30, 1975

PHIL R. LUCERO  
COMMISSIONER

P. O. BOX 1148  
SANTA FE, NEW MEXICO 87501

Northwest Pipeline Corporation  
One Park Central  
Suite 1487  
Denver, Colorado 80202

Re: Cox Canyon Unit  
San Juan County, New Mexico  
1975 Drilling Program

ATTENTION: Betty R. Burnett

Gentlemen:

The Commissioner of Public Lands has this date approved your drilling program for the year 1975, for the Cox Canyon Unit, San Juan County, New Mexico. This plan provides the drilling of no wells during 1975. This approval is subject to like approval by the United States Geological Survey and the Oil Conservation Commission.

Enclosed is one approved copy for your files.

Please remit a Three (\$3.00) Dollar filing fee.

Very truly yours,

PHIL R. LUCERO  
COMMISSIONER OF PUBLIC LANDS

BY:  
RAY D. GRAHAM, Director  
Oil and Gas Division

FRL/RDG/s

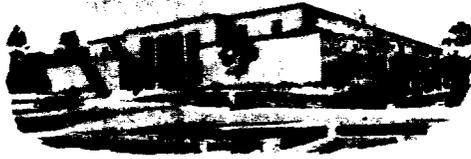
encl.

cc: USGS-Roswell, New Mexico

OCC- Santa Fe, New Mexico ✓

State of New Mexico

307  
TELEPHONE  
505-827-2748



Commissioner of Public Lands

January 15, 1975

PHIL R. LUCERO  
COMMISSIONER

P. O. BOX 1148  
SANTA FE, NEW MEXICO 87501

Northwest Pipeline Corporation  
One Park Central, Suite 1487  
Denver, Colorado 80202

Re: Cox Canyon Unit  
San Juan County, New Mexico  
APPLICATION FOR THE FIRST  
EXPANSION OF THE PICTURED  
CLIFFS PARTICIPATING AREA  
Effective July 1, 1974

APPLICATION FOR THE SECOND  
EXPANSION OF THE PICTURED  
CLIFFS PARTICIPATING AREA  
Effective August 1, 1974

ATTENTION: Mr. John W. Shepardson

Gentlemen:

This is to advise that the Commissioner of Public Lands has this date approved the First and Second expansions of the Pictured Cliffs Participating Area for the Cox Canyon Unit, San Juan County, New Mexico, subject to like approval by the United States Geological Survey and the Oil Conservation Commission.

Enclosed is one approved copy for your records.

In the future please submit three (3) copies to this office. We shall retain two copies and return one copy to you.

Very truly yours,

PHIL R. LUCERO  
COMMISSIONER OF PUBLIC LANDS

BY:  
RAY D. GRAHAM, Director  
Oil and Gas Division

PRL/RDG/s

encl.

cc: USGS-Roswell, New Mexico

OCC- Santa Fe, New Mexico ✓

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE NEW MEXICO 87501

51

January 13, 1975

Northwest Pipeline Corporation  
One Park Central, Suite 1487  
Denver, Colorado 80202

Attention: Mr. John W. Shepardson

Re: First and Second Expansions,  
Pictured Cliffs Participating  
Area, Cox Canyon Unit, Rio  
Arriba County, New Mexico.

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the First and Second Expansions of the Participating Area of the Pictured Cliffs for the Cox Canyon Unit, Rio Arriba County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

One approved copy of the application is returned herewith.

Very truly yours,

A. L. PORTER, Jr.  
Secretary-Director

ALP/JEK/og

cc: Commissioner of Public Lands  
Santa Fe, New Mexico

United States Geological Survey  
Roswell, New Mexico

Northwest Pipeline Corporation



JOHN M. PARKER  
DIRECTOR OF EXPLORATION

ONE PARK CENTRAL, SUITE 1487  
DENVER, COLORADO 80202  
303-823-9303

January 8, 1975

Mr. Carl C. Traywick  
Acting Area Oil and Gas Supervisor  
United States Geological Survey  
Post Office Drawer 1857  
Roswell, New Mexico 88201

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

Oil Conservation Commission  
State of New Mexico  
Attention: Mr. A. L. Porter, Jr.  
Post Office Box 2088  
Santa Fe, New Mexico 87501

Gentlemen:

Re: Cox Canyon Unit No. I Sec. 946  
Rio Arriba County, New Mexico  
APPLICATION FOR THE FIRST  
EXPANSION OF THE PICTURED  
CLIFFS PARTICIPATING AREA  
Effective July 1, 1974

APPLICATION FOR THE SECOND  
EXPANSION OF THE PICTURED  
CLIFFS PARTICIPATING AREA  
Effective August 1, 1974

Pursuant to Section 11 of the Cox Canyon Unit Agreement, Northwest Pipeline Corporation, as Unit Operator, determined on the dates set out below that the following wells capable of producing unitized substances in paying quantities from the Pictured Cliffs Formation have been completed upon acreage committed to this unit, and concludes that the Pictured Cliffs Participating Area should be expanded as follows:

Acting Area Oil and Gas Supervisor  
Commissioner of Public Lands  
Oil Conservation Commission  
January 8, 1975  
Page 2

FIRST EXPANDED PARTICIPATING AREA -- Effective July 1, 1974

<u>Drilling Block</u>	<u>Acres</u>	<u>Well Nos.</u>
NE $\frac{1}{4}$ Sec 20 - 32N - 11W	160.00	Cox Canyon Unit Well No. 13
SW $\frac{1}{4}$ Sec 21 - 32N - 11W	160.00	Cox Canyon Unit Well No. 14
NW $\frac{1}{4}$ Sec 21 - 32N - 11W	160.00	Cox Canyon Unit Well No. 15

Pertinent well data is as follows:

The Cox Canyon Unit #13, located 1,180' from the North line and 930' from the East line of Section 20, Township 32 North, Range 11 West, N.M.P.M., was completed on July 13, 1974, at a total depth of 3,525'. The Pictured Cliffs Formation in the perforated interval between 3,422'-3,428' was treated with a sand-water fracturing process on July 2, 1974. The well was shut-in on July 5, 1974, for eight (8) days. It was tested on July 13, 1974, and gauged 1,376 MCFD on choke and 1,406 MCFD by the calculated absolute open-flow method with a SIPC of 935 psia.

The Cox Canyon Unit #14, located 1,450' from the South line and 1,740' from the West line of Section 21, Township 32 North, Range 11 West, N.M.P.M., was completed on July 26, 1974, at a total depth of 3,706'. The Pictured Cliffs Formation in the perforated intervals between 3,566'-3,582' and 3,622'-3,630' was treated with a sand-water fracturing process on July 12, 1974. The well was shut-in on July 18, 1974, for eight (8) days. It was then tested on July 26, 1974, and gauged 1,419 MCFD on choke and 1,616 MCFD by the calculated absolute open-flow method with a SIPC of 864 psia.

The Cox Canyon Unit #15, located 1,180' from the North line and 1,100' from the West line of Section 21, Township 32 North, Range 11 West, N.M.P.M., was completed on July 13, 1974, at a total depth of 3,688'. The Pictured Cliffs Formation in the perforated interval between 3,562'-3,574' was treated with a sand-water fracturing process on July 2, 1974. The well was shut-in on July 5, 1974, for

Acting Area Oil and Gas Supervisor  
Commissioner of Public Lands  
Oil Conservation Commission  
January 8, 1975  
Page 3

eight (8) days. It was then tested on July 13, 1974, and gauged 2,218 MCFD on choke and 2,365 MCFD by the calculated open-flow method with a SIPC of 884 psia.

SECOND EXPANDED PARTICIPATING AREA -- Effective August 1, 1974

<u>Drilling Block</u>	<u>Acres</u>	<u>Well Nos.</u>
E $\frac{1}{2}$ SE $\frac{1}{4}$ Sec 20 - 32N - 11W*	80.00	Cox Canyon Unit Com. Well No. 12

\*This 80 acres was communitized with the W $\frac{1}{2}$ SE $\frac{1}{4}$  of Section 20 which lies outside of the Cox Canyon Unit boundaries.

Pertinent data on this well is:

The Cox Canyon Unit Com. #12, located 1,730' from the South line and 1,145' from the East line of Section 20, Township 32 North, Range 11 West, N.M.P.M., was completed on August 28, 1974, at a total depth of 3,520'. The Pictured Cliffs Formation, in the perforated interval between 3,390'-3,428', was treated with a sand-water fracturing process on August 16, 1974. The well was shut-in on August 17, 1974, for eleven (11) days. It was then tested on August 28, 1974, and gauged 1,426 MCFD on choke and 1,463 MCFD by the calculated absolute open-flow method with a SIPC of 879 psia.

In support of this application, the following exhibits are made a part hereof:

EXHIBIT "A"

Ownership map reflecting the boundaries of the Unit and the proposed Expansions of the Participating Area of the Pictured Cliffs Formation within the Cox Canyon Unit.

EXHIBIT "B"

Geological Reports on the First and Second Expansions of the Pictured Cliffs Formation within the Cox Canyon Unit.

EXHIBIT "C"

Figure No. 1: Cox Canyon Subsurface Structure Contour Map

Acting Area Oil and Gas Supervisor  
Commissioner of Public Lands  
Oil Conservation Commission  
January 8, 1975  
Page 4

EXHIBIT "D"

Schedule of Pictured Cliffs Gas Production

Attached are Schedules II and III, respectively showing the First and Second Expansions of the Participating Area of the Pictured Cliffs Formation. These describe the Expanded Participating Areas and show the percentage of unitized substances allocated to each tract and the percentage of ownership.

If these First and Second Expansions of the Participating Area of the Pictured Cliffs Formation meet with your approval, please indicate such approval in the space provided and return an approved copy of this letter for our files.

Copies of this letter are being sent to the working interest owners shown on the attached sheet.

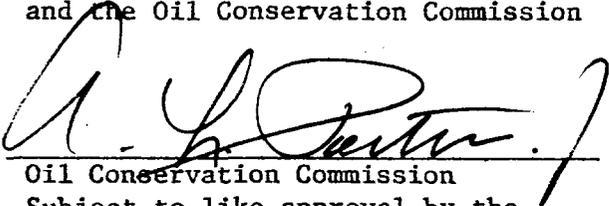
Very truly yours,

  
John W. Shepardson  
Land Manager

BB:cak  
Attachments

APPROVED: \_\_\_\_\_ DATE: \_\_\_\_\_  
Area Oil and Gas Supervisor  
United States Geological Survey  
Subject to like approval by the  
Commissioner of Public Lands and  
the Oil Conservation Commission

APPROVED: \_\_\_\_\_ DATE: \_\_\_\_\_  
Commissioner of Public Lands  
Subject to like approval by the  
United States Geological Survey  
and the Oil Conservation Commission

APPROVED:  DATE: January 13, 1975  
Oil Conservation Commission  
Subject to like approval by the  
United States Geological Survey and  
The Commissioner of Public Lands

The foregoing approvals are for the First and Second Expansions of the Participating Area of the Pictured Cliffs Formation for the Cox Canyon Unit No. I, Sec. 946, San Juan County, New Mexico.

COX CANYON UNIT

Working Interest Owners

Atlantic Richfield Company  
Attention: J. G. Bradshaw  
1860 Lincoln Street - Suite 501  
Denver, CO 80203

Continental Oil Company  
Attention: Mr. L. P. Thompson  
P. O. Box 460  
Hobbs, New Mexico 88240

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

Colorado Oil & Gas Corporation  
Denver Club Building  
P. O. Box 749  
Denver, CO 80201

Tenneco Oil Company  
Attention: Mr. J. A. Dutton  
Suite 1200, Lincoln Tower Building  
1860 Lincoln Street  
Denver, CO 80203

Northwest Pipeline Corporation



261

JOHN M. PARKER  
DIRECTOR OF EXPLORATION

ONE PARK CENTRAL  
SUITE 1487  
DENVER, COLORADO 80202  
303- 623-9303

September 18, 1974

Acting Area Oil & Gas Supervisor  
United States Geological Survey  
Drawer 1857  
Roswell, New Mexico 88201

Commissioner of Public Lands  
State of New Mexico  
P.O. Box 1148  
Santa Fe, New Mexico 87501

Oil Conservation Commission  
State of New Mexico  
P.O. Box 2088  
Santa Fe, New Mexico 87501

Gentlemen:

Re: Cox Canyon Unit, I Sec. No. 946  
San Juan County, New Mexico  
Supplemental 1974 Drilling Program

The 1974 Supplemental Drilling Program dated August 29, 1974 for the Cox Canyon Unit was approved by the regulatory bodies on the following dates:

United States Geological Survey	September 5, 1974
Commissioner of Public Lands	September 4, 1974
Oil Conservation Commission	September 16, 1974

Copies of this letter are being sent to the working interest owners as shown on the attached sheet.

Very truly yours,

Betty R. Burnett  
Supervisor of Contracts and Units

BB:cf

COX CANYON UNIT

Working Interest Owners

Atlantic Richfield Company  
Attention: K. V. Terrell  
1860 Lincoln Street - Suite 501  
Denver, CO 80203

Continental Oil Company  
Attention: Mr. W. C. Blackburn  
Pacific Western Life Building  
152 North Durbin  
Casper, WY 82601

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

Colorado Oil & Gas Corporation  
Denver Club Building  
P. O. Box 749  
Denver, CO 80201

Tenneco Oil Company  
Attention: A. D. Rial  
Suite 1200, Lincoln Tower Building  
1860 Lincoln Street  
Denver, CO 80203

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE NEW MEXICO 87501

September 16, 1974

Northwest Pipeline Corporation  
One Park Central, Suite 1487  
Denver, Colorado 80202

Attention: Betty Burnett

Re: Supplemental 1974 Drilling  
Program, Cox Canyon Unit,  
San Juan County, New Mexico.

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Supplemental 1974 Drilling Program providing for the drilling of three Pictured Cliffs wells for the Cox Canyon Unit, San Juan County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

One approved copy of the program is returned herewith.

Very truly yours,

A. L. PORTER, Jr.  
Secretary-Director

ALP/JEK/og

cc: United States Geological Survey  
Roswell, New Mexico

Commissioner of Public Lands  
Santa Fe, New Mexico

State of New Mexico



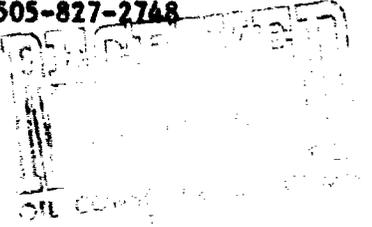
ALEX J. ARMIJO  
COMMISSIONER



Commissioner of Public Lands

September 4, 1974

TELEPHONE  
505-827-2748



P. O. BOX 1148  
SANTA FE, NEW MEXICO

Northwest Pipeline Corporation  
One Park Central  
Suite 1487  
Denver, Colorado 80202

Re: Cox Canyon Unit  
San Juan County, New Mexico  
Supplemental 1974 Drilling Program

ATTENTION: Betty Burnett

Gentlemen:

The Commissioner of Public Lands has this date approved your Supplemental Drilling Program for the year 1974, for the Cox Canyon Unit, San Juan County, New Mexico. This supplemental Drilling Program provides for the drilling of three additional Pictured Cliffs wells.

This approval is subject to like approval by the United States Geological Survey and the Oil Conservation Commission.

Enclosed is one approved copy for your files.

Please remit a Three (\$3.00) Dollar filing fee.

Very truly yours,

RAY D. GRAHAM, Director  
Oil and Gas Department

AJA/RDG/s

encls.

cc: USGS-Roswell, New Mexico  
OCC- Santa Fe, New Mexico ✓

Northwest Pipeline Corporation



JOHN M. PARKER  
DIRECTOR OF EXPLORATION

ONE PARK CENTRAL  
SUITE 1487  
DENVER, COLORADO 80202  
303- 623-9303

August 29, 1974

Mr. Carl C. Traywick (3)  
Acting Area Oil & Gas Supervisor  
United States Geological Survey  
Drawer 1857  
Roswell, New Mexico 88201

Commissioner of Public Lands (3)  
State of New Mexico  
Attn: Mr. Ray D. Graham  
P. O. Box 1148  
Santa Fe, New Mexico 87501

Oil Conservation Commission (2)  
State of New Mexico  
Attn: Mr. A. L. Porter Jr.  
P. O. Box 2088  
Santa Fe, New Mexico 87501

Gentlemen:

RE: Cox Canyon Unit, I Sec. No. 946  
San Juan County, New Mexico  
Supplemental 1974 Drilling Programs

On May 4, 1974, Northwest Pipeline Corporation, as Unit Operator, filed a drilling program providing for the drilling of four Pictured Cliffs wells.

Northwest Pipeline Corporation now desires, and with the concurrence of a majority of the Unit Working Interest owners, to amend this 1974 Program and provide for the drilling of the following additional wells during 1974:

<u>Well No.</u>	<u>Supplemental Drilling Block</u>	<u>Formation</u>
#16	SE/4 Section 16-32N-11W	Pictured Cliffs
#17	SW/4 Section 16-32N-11W	Pictured Cliffs
#18	SE/4 Section 17-32N-11W	Pictured Cliffs

Northwest Pipeline Corporation



Regional Oil & Gas Supervisor  
Commissioner of Public Lands  
Oil Conservation Commission  
August 29, 1974  
Page Two

These wells will be drilled by Northwest Pipeline Corporation, as Unit Operator, on a spacing unit which is not presently within the existing Pictured Cliffs Participating Area.

In addition to these wells, as Unit Operator, we will drill any offset wells required to prevent drainage of unitized substances, and any other wells deemed necessary by the Unit Operator and the working interest owners.

If this Supplemental Drilling Program is acceptable, please signify your approval as required under Section 10 of the Unit Agreement in the space provided on the attached sheet and return an approved copy to this office.

Copies of this letter 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 "Betty Burnett". The ink is dark and the signature is written in a fluid, connected style.

Betty Burnett  
Supervisor of Contracts & Units

BB:dms

Enclosures

APPROVED: \_\_\_\_\_ DATE: \_\_\_\_\_  
Area Oil and Gas Supervisor  
United States Geological Survey  
Subject to like approval by the  
Commissioner of Public Lands and  
the Oil Conservation Commission

APPROVED: \_\_\_\_\_ DATE: \_\_\_\_\_  
Commissioner of Public Lands  
Subject to like approval by the  
United States Geological Survey  
and the Oil Conservation Commission

APPROVED:  DATE: \_\_\_\_\_  
Oil Conservation Commission  
Subject to like approval by the  
United States Geological Survey and  
The Commissioner of Public Lands

The foregoing approvals are the the 1974 Drilling Program  
(Revised August 29, 1974) Cox Canyon Unit, I Sec. No. 946  
San Juan County, New Mexico

COX CANYON UNIT

Working Interest Owners

Atlantic Richfield Company  
Attention: K. V. Terrell  
1860 Lincoln Street - Suite 501  
Denver, CO 80203

Colorado Oil & Gas Corporation  
Denver Club Building  
P. O. Box 749  
Denver, CO 80201

Continental Oil Company  
Attention: Mr. W. C. Blackburn  
Pacific Western Life Building  
152 North Durbin  
Casper, WY 82601

Tenneco Oil Company  
Attention: A. D. Rial  
Suite 1200, Lincoln Tower Building  
1860 Lincoln Street  
Denver, CO 80203

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



# United States Department of the Interior

GEOLOGICAL SURVEY

Drawer 1857  
Roswell, New Mexico 88201

September 5, 1974

Northwest Pipeline Corporation  
Attention: Ms. Betty Burnett  
Suite 1487, One Park Central  
Denver, Colorado 80202

Gentlemen:

On this date, your supplemental 1974 plan of development for the Cox Canyon unit area, San Juan County, New Mexico, wherein you propose to drill three Pictured Cliffs wells on unit land outside the existing Pictured Cliffs participating area, was approved. Such approval is subject to like approval by the appropriate officials of the State of New Mexico.

One approved copy of the plan is enclosed.

Sincerely yours,

(SIGNED) N. O. FREDERICK

N. O. FREDERICK  
Area Oil and Gas Supervisor

cc:  
Farmington (w/cy plan)  
NMOGC, Santa Fe (ltr only)  
Com. Pub. Lands, Santa Fe (ltr only)

JAGillham:ds

Northwest Pipeline Corporation



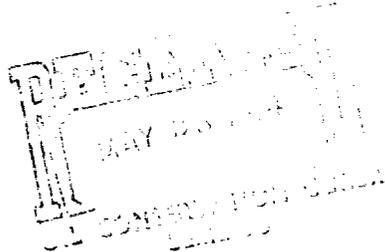
361

ONE PARK CENTRAL  
SUITE 1487  
DENVER, COLORADO 80202  
303-623-9303

JOHN M. PARKER  
DIRECTOR OF EXPLORATION

May 24, 1974

Regional Oil & Gas Supervisor  
United States Geological Survey  
Drawer 1857  
Raswell, New Mexico 88201



Commissioner of Public Lands  
State of New Mexico  
P. O. Box 1148  
Santa Fe, New Mexico 87501

Oil Conservation Commissioner  
State of New Mexico  
P. O. Box 2088  
Santa Fe, New Mexico 87501

RE: Cox Canyon Unit, 1 Section No. 946  
San Juan County, New Mexico, 1974  
Revised Drilling Program

Gentlemen:

The 1974 Revised Drilling Program for the Cox Canyon Unit dated May 14, 1974 was approved by the regulatory bodies on the following dates:

United States Geological Survey	May 17, 1974
Commissioner of Public Lands	May 16, 1974
Oil Conservation Commissioner	May 21, 1974

Copies of this letter are being sent to the working interest owners as shown on the attached sheet.

Very truly yours,

Betty Burnett  
Contracts and Units Supervisor

BB:hc  
Attached

*Northwest Pipeline Corporation*



WORKING INTEREST OWNERS

Atlantic Richfield Company  
Attention: J. G. Brandshaw  
1860 Lincoln Street, Suite 501  
Denver, Colorado 80203

Colorado Oil & Gas Corporation  
Denver Club Building  
P. O. Box 749  
Denver, Colorado 80203

Tenneco Oil Company  
Attention: A. D. Rial  
Suite 1200, Lincoln Tower Building  
1860 Lincoln Street  
Denver, Colorado 80203

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

May 21, 1974

361

Northwest Pipeline Corporation  
One Park Central, Suite 1487  
Denver, Colorado 80202

Attention: Mr. John W. Shepardson

Re: Revised 1974 Drilling Program  
Cox Canyon Unit, San Juan  
County, New Mexico.

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the revised Drilling Program for the calendar year 1974 providing for the drilling of four Pictured Cliffs wells for the Cox Canyon Unit, San Juan County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

One approved xerox copy of the program is returned herewith. Two copies of your plans of development are required for proper handling by this office.

Very truly yours,

A. L. PORTER, Jr.  
Secretary-Director

ALP/JEK/og

cc: United States Geological Survey  
Box 1857  
Roswell, New Mexico

Commissioner of Public Lands  
Land Office Building  
Santa Fe, New Mexico

C

O

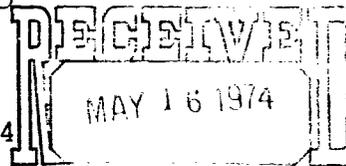
P

Y

Northwest Pipeline Corporation



May 14, 1974



OIL CONSERVATION COMM  
Santa Fe

ONE PARK CENTRAL  
SUITE 1487  
DENVER, COLORADO 80202  
303- 623-9303

JOHN M. PARKER  
DIRECTOR OF EXPLORATION

Regional Oil & Gas Supervisor  
Att: Carl Traywick  
Acting Area Oil & Gas Supervisor  
United States Geological Survey  
Drawer 1857  
Roswell, New Mexico 88201

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

Oil Conservation Commission  
State of New Mexico  
Att: A. L. Porter, Jr.  
P. O. Box 2088  
Santa Fe, New Mexico 87501

Re: Cox Canyon Unit 1 Sec. No. 946  
San Juan County, New Mexico  
1974 Drilling Program (Revised)

Gentlemen:

By letter dated February 8, 1974, El Paso Natural Gas Company, the then Unit Operator, filed a drilling program providing for no wells.

Northwest Pipeline Corporation has been in touch with the necessary working interest owners and has received the necessary concurrence to propose the drilling of the following wells during 1974:

<u>Well No.</u>	<u>Drilling Block</u>	<u>Formation</u>
12	SE/4 Sec. 20 T32N-R11W	Pictured Cliffs
13	NE/4 Sec. 20 T32N-R11W	Pictured Cliffs
14	SW/4 Sec. 21 T32N-R11W	Pictured Cliffs
15	NW/4 Sec. 21 T32N-R11W	Pictured Cliffs

Regional Oil & Gas Supervisor  
Commissioner of Public Lands  
Oil Conservation Commission  
May 14, 1974  
Page 2

Northwest Pipeline Corporation, as Unit Operator, will drill any offset wells that may be required to prevent drainage of unitized substances, and any other wells subsequently deemed necessary or which are requested by the Unit Operator and the working interest owners.

If this Drilling Program is acceptable, please signify your approval as required under Section 10 of the Unit Agreement in the space provided on the attached sheet and return an approved copy to Northwest Pipeline Corporation.

Copies of this Drilling Program are being sent to the working interest owners as shown on the attached sheet.

Yours very truly

  
John W. Shepardson  
Manager  
Land Department

JWS:lc  
Enclosures

APPROVED: \_\_\_\_\_

Regional Oil and Gas Supervisor  
United States Geological Survey  
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  
United States Geological Survey and  
the Oil Conservation Commission

DATE: \_\_\_\_\_

APPROVED: \_\_\_\_\_

*A. L. Porter*  
Oil Conservation Commission  
Subject to like approval by the  
United States Geological Survey and  
The Commissioner of Public Lands

DATE: *May 21, 1974*

The foregoing approvals are for the 1974 Drilling Program  
(Revised May 14, 1974) Cox Canyon Unit 1 Sec. No. 946, San  
Juan County, New Mexico.

WORKING INTEREST OWNERS

Atlantic Richfield Company  
Attention: K. V. Terrell  
1860 Lincoln Street, Suite 501  
Denver, Colorado 80203

Continental Oil Company  
Attention: Mr. W. C. Blackburn  
Pacific Western Life Building  
152 North Durbin  
Casper, Wyoming 82601

Colorado Oil & Gas Corporation  
Denver Club Building  
P. O. Box 749  
Denver, Colorado 80201

Tenneco Oil Company  
Attention: A. D. Rial  
Suite 1200, Lincoln Tower Building  
1860 Lincoln Street  
Denver, Colorado 80203

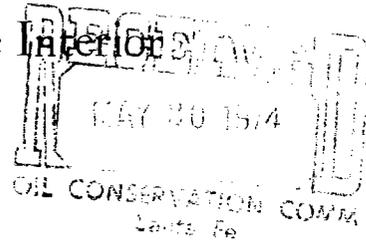
El Paso Natural Gas Company  
El Paso, Texas 79978  
Att: D. N. Canfield, Manager  
Land Department



United States Department of the Interior

GEOLOGICAL SURVEY

Drawer 1857  
Roswell, New Mexico 88201



May 17, 1974

Northwest Pipeline Corporation  
Attention: Mr. John W. Shepardson  
Suite 1487, One Park Central  
Denver, Colorado 80202

Gentlemen:

One approved copy of your revised 1974 plan of development for the Cox Canyon unit area, San Juan County, New Mexico, is enclosed. Such revised plan, proposing the drilling of four Pictured Cliffs wells, was approved on this date subject to like approval by the appropriate official of the State of New Mexico.

Please note your records that three copies of your plans of development are required for proper handling by this office.

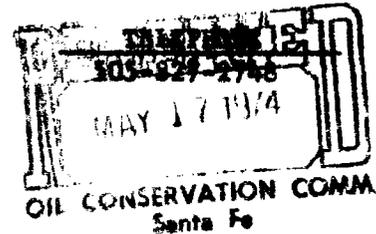
Sincerely yours,

N. O. Frederick  
Area Oil and Gas Supervisor

cc:  
Farmington (w/cy plan)  
NMOCC, Santa Fe (ltr only) ✓  
Com. Pub. Lands, Santa Fe (ltr only)

JAG:td

State of New Mexico



Commissioner of Public Lands

May 16, 1974

ALEX J. ARMIJO  
COMMISSIONER

P. O. BOX 1148  
SANTA FE, NEW MEXICO

Northwest Pipeline Corporation  
One Park Central-Suite 1487  
Denver, Colorado 80202

Re: Cox Canyon Unit  
San Juan County, New Mexico  
REVISED-1974 DRILLING PROGRAM

ATTENTION: Mr. John W. Shepardson

Gentlemen:

The Commissioner of Public Lands has this date approved the Revised 1974 Drilling Program for the Cox Canyon Unit, San Juan County, New Mexico, proposing the drilling of four (4) Pictured Cliffs wells. This approval is subject to like approval by the United States Geological Survey and the Oil Conservation Commission.

Enclosed is one approved copy of the plan.

In the future please submit three (3) copies to this office. We shall retain two(2) copies and return one (1) copy to you.

Also, please remit a Three (\$3.00) Dollar filing fee.

Very truly yours,

RAY D. GRAHAM, Director  
Oil and Gas Department

AJA/RDG/s  
encl.  
cc:

USGS-Roswell, New Mexico  
OCC- Santa Fe, New Mexico



# United States Department of the Interior

GEOLOGICAL SURVEY  
Drawer 1857  
Roswell, New Mexico 88201

April 3, 1974

El Paso Natural Gas Company  
Attention: Mr. James R. Fermenter  
P. O. Box 1492  
El Paso, Texas 79999

Subject: Cox Canyon unit  
San Juan 29-5 unit  
San Juan 29-6 unit  
San Juan 30-5 unit  
San Juan 31-6 unit  
San Juan 32-7 unit  
San Juan 32-8 unit

Gentlemen:

Four copies of each of the instruments by which El Paso Natural Gas Company resigns as unit operator and Northwest Pipeline Corporation is designated as successor unit operator for the subject unit agreements, Rio Arriba and San Juan Counties, New Mexico, were filed with this office on March 20, 1974. The instruments are executed by El Paso Natural Gas Company as the present unit operator and working interest owner and Northwest Pipeline Corporation as successor unit operator.

The selection of Northwest Pipeline Corporation as successor unit operator has been approved on April 2, 1974, effective as of January 31, 1974, the effective date of the action taken pursuant to the District Court Order. Such approval is subject to like approval by the Commissioner of Public Lands of the State of New Mexico and the Oil Conservation Commission. Copies of the approved instrument have been distributed to the Federal agencies concerned and one copy is returned herewith.

Sincerely yours,

(ORIGINAL FILED)

CARL C. TRAYWICK  
Acting Area Oil and Gas Supervisor

CC:  
Durango (w/cy app.)  
BLM, Santa Fe (w/cy app.)  
Com. of Pub. Lands, Santa Fe (ltr. only)  
N.M.O.C.C., Santa Fe (ltr. only) ✓

JMonro:lh

# El Paso Natural Gas Company

El Paso, Texas 79978

April 1, 1974

361

Regional Oil & 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 Commission  
State of New Mexico  
Post Office Box 2088  
Santa Fe, New Mexico 87501

Re: Cox Canyon Unit I Sec. No. 946  
San Juan County, New Mexico  
APPROVAL OF THE INITIAL PARTICI-  
PATING AREA FOR THE PICTURED  
CLIFFS FORMATION

Gentlemen:

This is to advise that the captioned Participating Area for the Cox Canyon Unit was approved by the Regulatory Agencies on the following dates:

United States Geological Survey	-	March 28, 1974
Commissioner of Public Lands	-	March 15, 1974
Oil Conservation Commission	-	March 18, 1974

Copies of this letter are being sent to the working interest owners of the Cox Canyon Unit.

Yours very truly,



Alan Alexander  
Landman, Land Department  
Energy Resource Development

AA:lj  
Cox Canyon Unit 4.1

cc: Mr. Antonio Martinez  
Executive Director  
New Mexico Oil & Gas Accounting Commission



# United States Department of the Interior

GEOLOGICAL SURVEY

Drawer 1857  
Roswell, New Mexico 88201

March 28, 1974

561

El Paso Natural Gas Company  
Attention: Mr. James R. Permenter  
P. O. Box 1492  
El Paso, Texas 79999

Gentlemen:

Your application of March 6, 1974, requesting approval of the initial Pictured Cliffs participating area for the Cox Canyon unit agreement, San Juan County, New Mexico, was approved on March 28, 1974, by the Acting Area Oil and Gas Supervisor, U. S. Geological Survey, effective as of August 2, 1973.

The initial Pictured Cliffs participating area, consisting of 320 acres described as the E $\frac{1}{2}$  of sec. 21, T. 32 N., R. 11 W., is based on the completion of unit wells Nos. 10 and 11. The wells are located in the NE $\frac{1}{4}$  and the SE $\frac{1}{4}$  of sec. 21, respectively. Well No. 10 was completed on May 23, 1973, for a calculated absolute open flow potential of 1,528 MCFGPD from the Pictured Cliffs interval from 3,250 feet to 3,280 feet. Well No. 11 was completed on May 23, 1973, for a calculated absolute open flow potential of 2,413 MCFGPD from the Pictured Cliffs interval from 3,266 feet to 3,286 feet.

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

Sincerely yours,

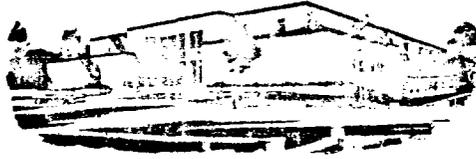
CARL C. TRAYWICK  
Acting Area Oil and Gas Supervisor

cc:  
Farmington (w/cy of appln.)  
BLM, Santa Fe (ltr. only)  
N.M.O.C.C., Santa Fe (ltr. only) ✓  
Com. of Pub. Lands, Santa Fe (ltr. only)

REShook:lh

State of New Mexico

561  
TELEPHONE  
505-827-2748



Commissioner of Public Lands

March 27, 1974

ALEX J. ARMIJO  
COMMISSIONER

P. O. BOX 1148  
SANTA FE, NEW MEXICO

El Paso Natural Gas Company  
P. O. Box 1492  
El Paso, Texas 79999

Re: RESIGNATION AND DESIGNATION  
OF UNIT OPERATOR  
Cox Canyon Unit ✓  
San Juan 29-5 Unit  
San Juan 29-6 Unit  
San Juan 30-5 Unit  
San Juan 31-6 Unit  
San Juan 32-7 Unit  
San Juan 32-8 Unit

ATTENTION: Mr. James R. Permenter

Gentlemen:

The Commissioner of Public Lands has this date approved the resignation of El Paso Natural Gas Company as Unit Operator and the designation of Northwest Pipeline Corporation to succeed El Paso as Unit Operator of the captioned Units.

Your letter states that you are submitting the Resignation and Designation for the San Juan 32-5 Unit. However, it was not enclosed with the rest of the instruments. Please submit the proper instruments for this particular unit.

Two approved copies of the instrument are returned herewith.

Very truly yours,

RAY D. GRAHAM, Director  
Oil and Gas Department

AJA/RDG/s  
encls.  
cc:

USGS-Roswell, New Mexico  
OCC- Santa Fe, New Mexico ✓

Northwest Pipeline Corporation  
P. O. Box 1526  
Salt Lake City, Utah 87111

El Paso Natural Gas Company

El Paso, Texas 79978

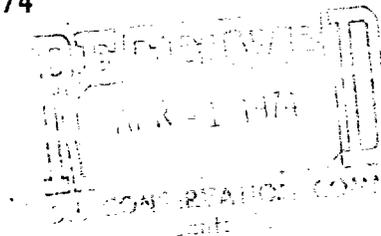
361

March 27, 1974

Regional Oil & 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 Commission  
State of New Mexico  
Post Office Box 2088  
Santa Fe, New Mexico 87501



Re: Cox Canyon Unit I Sec. No. 946  
San Juan County, New Mexico  
1974 DRILLING PROGRAM

Gentlemen:

This is to advise that the captioned Drilling Program was approved by the Regulatory Agencies on the following dates:

United States Geological Survey - March 13, 1974  
Commissioner of Public Lands - March 4, 1974  
Oil Conservation Commission - February 25, 1974

Copies of this letter are being sent to the working interest owners of the Cox Canyon Unit.

Yours very truly,

*Alan Alexander*

Alan Alexander  
Landman  
Land Department  
Energy Resource Development

AA:lj  
Cox Canyon Unit 3.0

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

March 26, 1974

El Paso Natural Gas Company  
P. O. Box 1492  
El Paso, Texas

Attention: Mr. T. W. Bittick

Re: Change of Unit Operator  
Cox Canyon Unit, San Juan  
County, New Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the resignation of El Paso Natural Gas Company as Unit Operator and the designation of Northwest Pipeline Corporation to succeed El Paso as Unit Operator of the Cox Canyon Unit, San Juan County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

Two approved copies of the instrument are returned herewith.

Very truly yours,

A. L. PORTER, Jr.  
Secretary-Director

ALP/JEK/og

cc: Commissioner of Public Lands - Santa Fe  
United States Geological Survey - Roswell

Northwest Pipeline Corporation - (with attachments)  
P. O. Box 1526  
Salt Lake City, Utah 84111

C

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P

Y

561

# El Paso Natural Gas Company

El Paso, Texas 79978

December 7, 1973

El Paso Natural Gas Company  
Post Office Box 1492  
El Paso, Texas 79978

Northwest Pipeline Corporation  
Post Office Box 1526  
Salt Lake City, Utah 84111

TO ALL WORKING INTEREST OWNERS

Re: Cox Canyon Unit

Gentlemen:

On June 16, 1972, the United States District Court for the District of Colorado, in Civil Action C-2626, ordered that certain assets and properties of El Paso Natural Gas Company ("El Paso") be divested to Northwest Pipeline Corporation ("Northwest"). This order was affirmed by the United States Supreme Court on March 5, 1973. On September 21, 1973, the Federal Power Commission issued an order authorizing Northwest to acquire and operate the assets and properties to be divested and recognizing Northwest as successor to El Paso's interests in these assets. On October 19, 1973, the District Court entered its final order directing that the divestiture be completed forthwith. The properties and assets consist primarily of El Paso's Northwest Division gas system, much of which was formerly owned by Pacific Northwest Pipeline Corporation.

Among the properties to be divested are those lands in the captioned Unit which El Paso acquired from Pacific Northwest Pipeline Corporation. In conjunction with this divestment El Paso wishes to resign as Unit Operator and Northwest wishes to succeed El Paso as Unit Operator. Upon obtaining working interest owner consent Northwest will request to be approved by the Director and the Commissioner as Successor Unit Operator.

While neither El Paso nor Northwest is certain as to specifically when Northwest will be able to replace El Paso as Unit Operator, we are both hopeful that this can be accomplished within from 60 to 90 days. For

To All Working Interest Owners  
Cox Canyon Unit  
Page Two

December 7, 1973

this reason El Paso respectfully requests that you waive the six (6) months waiting period called for in Paragraph 4 of the Unit Agreement and further consent to the Successor Unit Operator replacing El Paso as Unit Operator immediately upon qualification and approval.

Northwest respectfully requests your consent to succeed El Paso as Unit Operator. Please evidence your agreement to these requests by signing and returning a copy of this letter to each of the undersigned.

EL PASO NATURAL GAS COMPANY

NORTHWEST PIPELINE CORPORATION

BY: T. W. Bitter  
Attorney-in-Fact

BY: John G. McMillen

AGREED TO this 16 day of  
January, 1974, 1973.

Colorado Oil & Gas Corporation

BY: H. L. Blomquist, Jr.  
H. L. Blomquist, Jr.  
Vice President

To All Working Interest Owners  
Cox Canyon Unit  
Page Two

December 7, 1973

this reason El Paso respectfully requests that you waive the six (6) months waiting period called for in Paragraph 4 of the Unit Agreement and further consent to the Successor Unit Operator replacing El Paso as Unit Operator immediately upon qualification and approval.

Northwest respectfully requests your consent to succeed El Paso as Unit Operator. Please evidence your agreement to these requests by signing and returning a copy of this letter to each of the undersigned.

EL PASO NATURAL GAS COMPANY

NORTHWEST PIPELINE CORPORATION

BY: *Tom Bittner*  
Attorney-in-Fact

BY: *John J. McMillen*

AGREED TO this 7<sup>th</sup> day of  
January, 1973.

ATLANTIC RICHFIELD COMPANY

BY: *C. E. Cardwell Jr.*  
ATTORNEY-IN-FACT

*RC  
AMA*

To All Working Interest Owners  
Cox Canyon Unit  
Page Two

December 7, 1973

this reason El Paso respectfully requests that you waive the six (6) months waiting period called for in Paragraph 4 of the Unit Agreement and further consent to the Successor Unit Operator replacing El Paso as Unit Operator immediately upon qualification and approval.

Northwest respectfully requests your consent to succeed El Paso as Unit Operator. Please evidence your agreement to these requests by signing and returning a copy of this letter to each of the undersigned.

EL PASO NATURAL GAS COMPANY

NORTHWEST PIPELINE CORPORATION

BY: Tom Pittman  
Attorney-in-Fact

BY: John R. McMillan

AGREED TO this 17 day of  
December, 1973.

Tenneco Oil Company  
BY: R. D. Myers

To All Working Interest Owners  
Cox Canyon Unit  
Page Two

December 7, 1973

this reason El Paso respectfully requests that you waive the six (6) months waiting period called for in Paragraph 4 of the Unit Agreement and further consent to the Successor Unit Operator replacing El Paso as Unit Operator immediately upon qualification and approval.

Northwest respectfully requests your consent to succeed El Paso as Unit Operator. Please evidence your agreement to these requests by signing and returning a copy of this letter to each of the undersigned.

EL PASO NATURAL GAS COMPANY

NORTHWEST PIPELINE CORPORATION

BY: *T. W. Pittman*  
Attorney-in-Fact

BY: *John R. McMillan*

AGREED TO this 12th day of  
December, 1973.

Continental Oil Company

BY: *Jim Blackburn*  
Division Manager

RESIGNATION OF UNIT OPERATOR AND  
DESIGNATION OF SUCCESSOR UNIT OPERATOR

WHEREAS, on January 10, 1952, that certain Unit Agreement for the Development and Operation of the Cox Canyon Unit Area located in San Juan County, New Mexico, was entered into by parties owning interests in the acreage embraced in said Unit Area, and, thereafter, said Unit Agreement was duly approved by the Commissioner of Public Lands of the State of New Mexico on June 2, 1952, by the Oil Conservation Commission of the State of New Mexico on July 1, 1952 and by the United States Geological Survey on June 12, 1952; and

WHEREAS, on December 31, 1959, Pacific Northwest Pipeline Corporation was merged with and into El Paso Natural Gas Company, and El Paso Natural Gas Company, as the surviving corporation accepted and assumed the duties of Successor Unit Operator in accordance with the provisions of the Unit Agreement; and

WHEREAS, on June 16, 1972, the United States District Court for the District of Colorado, in Civil Action C-2626, ordered that certain assets and properties of El Paso Natural Gas Company which had been acquired by El Paso Natural Gas Company from Pacific Northwest Pipeline Corporation be divested to Northwest Pipeline Corporation, and included in said properties were certain lands and interests in the Cox Canyon Unit. The District Court Order was affirmed by the United States Supreme Court on March 5, 1973. On September 21, 1973, the Federal Power Commission issued an order authorizing Northwest Pipeline Corporation to acquire and operate the assets and properties to be divested and recognizing Northwest Pipeline Corporation as successor in interest to El Paso Natural Gas Company as to such assets and properties. On October 19, 1973, the District Court entered its final order directing that the divestiture be completed forthwith; and

WHEREAS, by instruments dated January 31, 1974, El Paso Natural Gas Company did transfer and convey unto Northwest Pipeline Corporation certain assets and properties including lands and interests within the Cox Canyon Unit; and

WHEREAS, in accordance with the terms and provisions of the Cox Canyon Unit Agreement, El Paso Natural Gas Company has procured the

necessary consent from interest owners in the Cox Canyon Unit to resign as Unit Operator and Northwest Pipeline Corporation has procured the necessary consent from said owners to replace El Paso Natural Gas Company as Operator of the Cox Canyon Unit, and evidence of such consent is attached hereto.

NOW THEREFORE, this instrument evidences the following:

1. Effective January 31, 1974, at 11:59 P.M. Mountain Daylight Saving Time, El Paso Natural Gas Company does hereby resign as Operator under the Unit Agreement for the Development and Operation of the Cox Canyon Unit Area, San Juan County, New Mexico, and agrees to settle and discharge all liabilities, obligations and responsibilities, if any, incurred by it as Unit Operator prior to the date and time of resignation.

2. Effective January 31, 1974, at 11:59 P.M. Mountain Daylight Saving Time, Northwest Pipeline Corporation does hereby accept and assume the duties and responsibilities of Unit Operator of the Cox Canyon Unit and agrees to serve in such capacity until its designation as Unit Operator shall be terminated in accordance with said Unit Agreement.

IN WITNESS WHEREOF, the parties hereto have executed this instrument effective as of 11:59 P.M. Mountain Daylight Saving Time, January 31, 1974.

UNIT OPERATOR AND WORKING INTEREST OWNER  
EL PASO NATURAL GAS COMPANY

BY:

J. W. Pittman  
Attorney-in-Fact

SUCCESSOR UNIT OPERATOR AND WORKING  
INTEREST OWNER

NORTHWEST PIPELINE CORPORATION

ATTEST:

BY:

David F. W. Johnson  
Secretary

BY:

R. F. Bailey  
Vice President

Approved March 26 1974

A. L. Carter  
Secretary

NEW MEXICO OIL CONSERVATION COMMISSION

# El Paso Natural Gas Company

El Paso, Texas 79978

March 19, 1974

361

United States Geological Survey  
Drawer 1857  
Roswell, New Mexico

Attention: Mr. Carl Traywick

Commissioner of Public Lands  
State of New Mexico  
P. O. Box 1148  
Santa Fe, New Mexico 87501

Attention: Mr. Ray Graham

Oil Conservation Commission  
State of New Mexico  
P. O. Box 2088  
Santa Fe, New Mexico 87501

Attention: Mr. J. E. Kapteina

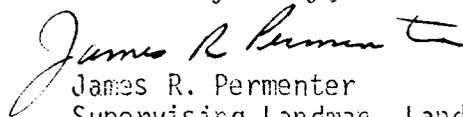
Re: Cox Canyon Unit  
San Juan 29-5 Unit  
San Juan 29-6 Unit  
San Juan 30-5 Unit  
San Juan 31-6 Unit  
San Juan 32-~~8~~ Unit  
San Juan 32-7 Unit

Gentlemen:

Attached are four (4) copies each of instruments providing for the resignation of El Paso Natural Gas Company as Operator of the captioned Units and the assumption of operatorship of such Units by Northwest Pipeline Corporation. We also enclose copies of letters from other working interest owners in each of these Units granting the necessary approval to the transaction.

We respectfully request your approval of El Paso's resignation and to Northwest's replacing El Paso as Operator of these Units. Should you require additional copies of these instruments please so advise. Any fees required for your approval will be promptly remitted.

Yours very truly,



James R. Permenter  
Supervising Landman, Land Department  
Energy Resource Development

JRP:sn  
Attachments

**OIL CONSERVATION COMMISSION**

**P. O. BOX 2088**

**SANTA FE, NEW MEXICO 87501**

March 18, 1974

361

C  
O  
P  
Y

El Paso Natural Gas Company  
P. O. Box 1492  
El Paso, Texas 79978

Attention: Mr. James R. Permenter

Re: Initial Pictured Cliffs  
Participating Area, Cox  
Canyon Unit, San Juan  
County, New Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Initial Pictured Cliffs Participating Area for the Cox Canyon Unit, San Juan County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

Five approved copies of the application are being forwarded to the United States Geological Survey, Roswell, and two approved copies are returned to the Commissioner of Public Lands.

Very truly yours,

A. L. PORTER, Jr.  
Secretary-Director

ALP/JEK/og

cc: Commissioner of Public Lands  
Santa Fe, New Mexico

United States Geological Survey  
Roswell, New Mexico

State of New Mexico

TELEPHONE  
505-827-2748



Commissioner of Public Lands

March 15, 1974

ALEX J. ARMIJO  
COMMISSIONER

P. O. BOX 1148  
SANTA FE, NEW MEXICO

El Paso Natural Gas Company  
P. O. Box 1492  
El Paso, Texas 79978

Re: Cox Canyon Unit  
San Juan County, New Mexico  
INITIAL PARTICIPATING AREA  
Pictured Cliffs Formation  
Effective August 2, 1973

ATTENTION: Mr. James R. Permenter

Gentlemen:

The Commissioner of Public Lands has this date approved your Initial Participating Area, Pictured Cliffs Formation, for the Cox Canyon Unit, this approval is subject to like approval by the United States Geological Survey and the Oil Conservation Commission.

We are handing eight (8) Copies of the application to the Oil Conservation Commission requesting them to forward five (5) copies to the United States Geological Survey at Roswell, New Mexico for their consideration. Two copies to be returned to the Commissioner of Public Lands and one copy must be retained by the Oil Conservation Commission. After this application has been approved and signed by the United States Geological Survey, two (2) copies should be returned to El Paso Natural Gas Company.

Very truly yours,

RAY D. GRAHAM, Director  
Oil and Gas Department

AJA/RDG/s

cc:

OCC-Santa Fe, New Mexico (cpy of ltr and 8 cpye of application)  
USGS-Roswell, New Mexico (cpy of ltr only)



United States Department of the Interior

**Drew** 1857  
GEOLOGICAL SURVEY  
Roswell, New Mexico 88201

March 13, 1974

**El Paso Natural Gas Company**  
**Attention: Mr. D. N. Canfield**  
**P.O. Box 1492**  
**El Paso, Texas 79978**

361

**Gentlemen:**

Three approved copies of your 1974 plan of development for the Cox Canyon unit area, San Juan County, New Mexico, are enclosed. Such plan, proposing the drilling of no additional wells was approved on this date subject to like approval by the appropriate official of the State of New Mexico.

Sincerely yours,

CCP/S

**CARL C. TRAYWICK**  
Acting Area Oil and Gas Supervisor

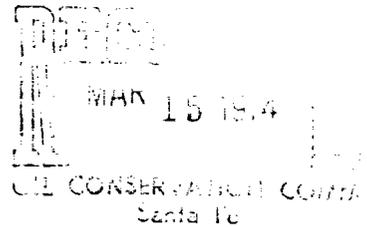
cc:  
NMOCC, Santa Fe (1tr only)  
Com. Pub. Lands, Santa Fe (1tr only)  
Farmington (w/cy plan)

JAGillham:ds

# El Paso Natural Gas Company

El Paso, Texas 79974

March 6, 1974



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

Oil Conservation Commission  
State of New Mexico  
P. O. Box 1148  
Santa Fe, New Mexico 87501

Commissioner of Public Lands  
State of New Mexico  
P. O. Box 2088  
Santa Fe, New Mexico 87501

Re: Cox Canyon Unit I-Section 946  
San Juan County, New Mexico  
INITIAL PARTICIPATING AREA,  
Pictured Cliffs Formation  
Effective August 2, 1973

Gentlemen:

Pursuant to Section 11 of the Cox Canyon Unit Agreement, approved June 12, 1952, El Paso Natural Gas Company, as Unit Operator, determined on the date set out below that the following wells capable of producing unitized substances in paying quantities from the Pictured Cliffs Formation have been completed upon acreage committed to this unit, and concludes that the Initial Pictured Cliffs Participating Area should be established effective August 2, 1973, which is the date of first production:

The Cox Canyon Unit #10 well, located 1500' from the North line and 900' from the East line of Section 21, Township 32 North, Range 11 West, N.M.P.M., was spudded on December 2, 1972, and completed on May 10, 1973, at a total depth of 3440'. The Pictured Cliffs Formation in the intervals between 3250'-3280', was treated with a sand-water fracturing process on May 10, 1973. The well was shut-in on May 14, 1973, and after being shut-in for nine (9) days the Pictured Cliffs Formation was tested on May 23, 1973, and after a three-hour blow-down period the well gauged 1489 MCF/D through a 3/4" choke and 1528 MCF/D by the calculated absolute open-flow method, with an SIPC of 919 psia.

The Cox Canyon Unit #11 well, located 910' from the South line and 850' from the East line of Section 21, Township 32 North, Range 11 West, N.M.P.M., was spudded on December 5, 1972, and completed on May 10, 1973, at a total depth of 3444'. The Pictured Cliffs Formation in the intervals between 3266'-3286', was treated with a sand-water fracturing process on May 10, 1973. The well was shut-in on May 14, 1973, and after being shut-in for nine (9) days the Pictured Cliffs Formation was tested on May 23, 1973, and after a three-hour blow-down period the well gauged 2271 MCF/D through a 3/4" choke and 2413 MCF/D by the calculated absolute open-flow method, with an SIPC of 914 psia.

In support of this application, the following-listed Exhibits are made a part hereof:

EXHIBIT "A"

Ownership map reflecting the boundaries of the Unit and the proposed Initial Participating Area of the Pictured Cliffs Formation within the Cox Canyon Unit.

EXHIBIT "B"

Geological Report on the Initial Participating Area of the Pictured Cliffs Formation within the Cox Canyon Unit.

EXHIBIT "C"

Figure No. 1: Cox Canyon Subsurface Structure Contour Map

Figure No. 2: Cox Canyon Isopachous Map

EXHIBIT "D"

Schedule of Pictured Cliffs Gas Production.

Attached hereto is Schedule I that shows the proposed Initial Participating Area for the Pictured Cliffs Formation in the Cox Canyon Unit Area. This schedule describes the Participating Area, shows the percentage of unitized substances allocated to each unitized tract and the percentage of ownership in each tract.

If this Initial Participating Area of the Pictured Cliffs Formation meets with your approval, please indicate such approval in the space provided and return an approved copy thereof for our files.

United States Geological Survey  
Oil Conservation Commission  
Commissioner of Public Lands  
Page Three

Copies of this letter are being sent to the working interest owners shown on the attached sheet.

Yours very truly,

James R. Permenter  
Supervising Landman  
Land Department  
Energy Resource Development

JRP:AEA:sn  
Enclosures  
S.J. 28-6, 4.3

cc: Mr. Antonio Martinez  
Executive Director, New Mexico  
Oil & Gas Accounting Commission  
P. O. Box 2308  
Santa Fe, New Mexico 87501

APPROVED: \_\_\_\_\_ DATE: \_\_\_\_\_  
Regional Oil and Gas Supervisor  
United States Geological Survey  
Subject to like approval by the  
Commissioner of Public Lands and  
The Oil Conservation Commission

APPROVED: Alex J. Ramirez DATE: March 15, 1974  
Commissioner of Public Lands  
Subject to like approval by the  
United States Geological Survey and  
The Oil Conservation Commission

APPROVED: A. L. Porter, Jr. DATE: March 18, 1974  
Oil Conservation Commission  
Subject to like approval by the  
United States Geological Survey and  
The Commissioner of Public Lands

The foregoing approvals are for the Initial Participating Area of the Pictured Cliffs Formation for the Cox Canyon Unit, I Sec. 946, San Juan County, New Mexico.

COX CANYON UNIT  
Working Interest Owners

Atlantic Richfield Company (3)

Colorado Oil & Gas Corporation

Continental Oil Company

Northwest Pipeline Corporation

Tenneco Oil Company

# El Paso Natural Gas Company 361

El Paso, Texas 79978

March 6, 1974

Commissioner of Public Lands  
State of New Mexico  
P. O. Box 1148  
Santa Fe, New Mexico 87501

Re: Cox Canyon Unit I-Section 946  
San Juan County, New Mexico  
INITIAL PARTICIPATING AREA  
Pictured Cliffs Formation  
Effective August 2, 1973

Gentlemen:

We are enclosing for your approval eight (8) copies of an Application for Approval of the Initial Participating Area of the Pictured Cliffs Formation for the referenced unit.

If this Application meets with your approval, please execute all copies and forward them to the Oil Conservation Commission for its approval and execution. After this Application has been signed by the Commissioner of Public Lands and the Oil Conservation Commission, the Commissioner of Public Lands should retain two (2) copies for his file and the Oil Conservation Commission should retain one (1) copy for its file, and five (5) copies should be forwarded to the United States Geological Survey in Roswell, New Mexico, for its approval and further handling. After this Application has been approved and signed by the United States Geological Survey, two (2) copies should be returned to El Paso.

Yours very truly,



James R. Permenter  
Supervising Landman  
Land Department  
Energy Resource Development

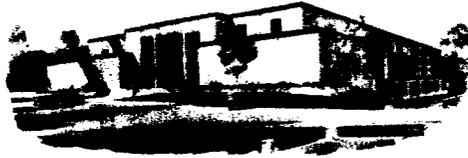
JRP:sn  
Enclosure

cc: Regional Oil & Gas Supervisor  
United States Geological Survey  
Drawer 1857  
Roswell, New Mexico 88201

✓ Oil Conservation Commission  
State of New Mexico  
P. O. Box 2088  
Santa Fe, New Mexico 87501

State of New Mexico

TELEPHONE  
505-827-2748



Commissioner of Public Lands

March 4, 1974

ALEX J. ARMIJO  
COMMISSIONER

P. O. BOX 1148  
SANTA FE, NEW MEXICO

El Paso Natural Gas Company  
P. O. Box 1492  
El Paso, Texas 79999

Re: Cox Canyon Unit  
San Juan County, New Mexico  
1974 DRILLING PROGRAM

ATTENTION: Mr. D. N. Canfield

Gentlemen:

The Commissioner of Public Lands has this date approved your 1974 Drilling Program for the Cox Canyon Unit, San Juan County, New Mexico, proposing the drilling of no additional wells during 1974. This approval is subject to like approval by the United States Geological Survey and the Oil Conservation Commission.

Enclosed is one approved copy of the plan.

Please remit a Three (\$3.00) Dollar filing fee.

Vary truly yours,

RAY D. GRAHAM, Director  
Oil and Gas Department

AJA/RDG/s

encl.

cc: OCC-Santa Fe, New Mexico ✓  
USGS-Roswell, New Mexico

**OIL CONSERVATION COMMISSION**

**P. O. BOX 2088**

**SANTA FE, NEW MEXICO 87501**

February 25, 1974

**El Paso Natural Gas Company**  
P. O. Box 1492  
El Paso, Texas 79978

Attention: Mr. D. N. Canfield

Re: 1974 Drilling Program  
Cox Canyon Unit, San Juan  
County, New Mexico.

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Drilling Program for the calendar year 1974, dated February 3, 1974, for the Cox Canyon Unit, San Juan County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

One approved copy of the program is returned herewith.

Very truly yours,

A. L. PORTER, Jr.  
Secretary-Director

ALP/JEK/og

cc: Commissioner of Public Lands - Santa Fe  
United States Geological Survey - Roswell

C

O

P

Y

# El Paso Natural Gas Company

El Paso, Texas 79978

February 8, 1974

Regional Oil & 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 Commission  
State of New Mexico  
Post Office Box 2088  
Santa Fe, New Mexico 87501

Re: Cox Canyon Unit I Sec. No. 946  
San Juan County, New Mexico  
1974 DRILLING PROGRAM

Gentlemen:

By letter dated January 12, 1973, El Paso Natural Gas Company, as Unit Operator, filed a Drilling Program on the captioned Unit for the calendar year 1973. Said Program provided for the drilling of no wells during 1973. As of this date, the total number of wells drilled in the Cox Canyon Unit on acreage committed to the unit is as follows:

<u>Pictured Cliffs</u>	
Commercial	2
<u>Mesaverde</u>	
Commercial	8
	<u>10</u>

Pursuant to Section 10 of the Cox Canyon Unit Agreement, El Paso Natural Gas Company, as Unit Operator, is submitting this Drilling Program which provides that no wells be drilled during the 1974 calendar year.

United States Geological Survey  
Commissioner of Public Lands  
Oil Conservation Commission  
Page Two

All the working interest owners have been contacted, and this Drilling Program reflects their desires for no additional drilling, and El Paso Natural Gas Company, as Unit Operator, and the working interest owners believe that all current Unit obligations have been satisfied.

El Paso Natural Gas Company, as Unit Operator, will drill any offset wells that may be required to prevent drainage of unitized substances, and any other wells deemed necessary or which are requested by the Unit Operator and the working interest owners.

If this Drilling Program is acceptable, please signify your approval as required under Section 10 of the Unit Agreement in the space provided on the attached sheet and return an approved copy to El Paso Natural Gas Company.

Copies of this Drilling Program are being sent to the working interest owners as shown on the attached sheet.

Yours very truly,



D. N. Canfield  
Manager  
Land Department  
Energy Resource Development

DNC:AEA:sn  
Enclosures  
Cox Canyon 3.0

APPROVED: \_\_\_\_\_  
Regional Oil & Gas Supervisor  
United States Geological Survey  
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  
United States Geological Survey  
and the Oil Conservation Commission

DATE: \_\_\_\_\_

APPROVED:  \_\_\_\_\_  
Oil Conservation Commission  
Subject to like approval by the  
United States Geological Survey  
and the Commissioner of Public Lands

DATE: February 25, 1974

The foregoing approvals are for the 1974 Drilling Program for the  
Cox Canyon Unit, I Sec. No. 946, San Juan County, New Mexico.

COX CANYON UNIT  
Working Interest Owners

Atlantic Richfield Company (3)

Colorado Oil & Gas Corporation

Continental Oil Company

Northwest Pipeline Corporation

Tenneco Oil Company

# El Paso Natural Gas Company

El Paso, Texas 79978

February 15, 1973

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

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

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

Re: 1973 DRILLING PROGRAM, Rio Arriba  
and San Juan Counties, New Mexico

Gentlemen:

The 1973 Drilling Programs for the following Units were approved by the Regulatory Bodies on the dates indicated:

<u>Unit</u>	<u>USGS</u>	<u>CPL</u>	<u>OCC</u>
✓ Cox Canyon I Sec. No. 946	1-24-73	1-22-73	1-23-73
Lindrith I Sec. No. 713	1-24-73	1-22-73	1-23-73
Huerfanito I Sec. No. 943	2-1-73	1-22-73	1-23-73
San Juan 31-6 #14-08-001-464	1-30-73	1-22-73	1-23-73

Copies of this letter are being sent to the working interest owners of the above-described Units.

Yours very truly,

  
Dick Isaacks  
Senior Landman  
Land Department  
Energy Resource Development

DI:lj



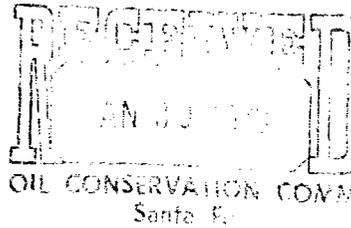
# United States Department of the Interior

GEOLOGICAL SURVEY

Drawer 1857  
Roswell, New Mexico 88201

January 24, 1973

Mr. D. N. Canfield  
El Paso Natural Gas Company  
El Paso, Texas 79978



Dear Mr. Canfield:

On this date, your 1973 plan of development for the Cox Canyon unit area, San Juan County, New Mexico, in which you propose to finalize completion of unit No. 10 and No. 11 Pictured Cliffs wells and no additional drilling was approved. Such approval is subject to like approval by the appropriate officials of the State of New Mexico.

Two approved copies of the plan are enclosed.

Sincerely yours,

CARL C. TRAYWICK  
Acting Area Oil and Gas Supervisor

cc:

Washington (w/cy plan)  
Farmington (w/cy plan)  
NMOCC, Santa Fe (ltr. only)  
Com. Pub. Lands, Santa Fe (ltr. only)

JAGillham:ds:1/24/73

**OIL CONSERVATION COMMISSION**

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

January 23, 1973

261

El Paso Natural Gas Company  
Box 1492  
El Paso, Texas

Attention: Mr. D. N. Canfield

Re: 1973 Drilling Program  
Cox Canyon Unit, San Juan  
County, New Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Drilling Program which provides that no wells be drilled during the calendar year 1973 for the Cox Canyon Unit, San Juan County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

One approved copy of the program is returned herewith.

Very truly yours,

A. L. PORTER, Jr.  
Secretary-Director

ALP/JEK/og

cc: Commissioner of Public Lands - Santa Fe  
United States Geological Survey - Roswell

# El Paso Natural Gas Company

El Paso, Texas 79978

January 12, 1973

Regional Oil & 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 Commission  
State of New Mexico  
Post Office Box 2088  
Santa Fe, New Mexico 87501

Re: Cox Canyon Unit I Sec. No. 946  
San Juan County, New Mexico  
1973 DRILLING PROGRAM

Gentlemen:

By letter dated January 17, 1972, El Paso Natural Gas Company, as Unit Operator, filed a Drilling Program on the captioned Unit for the calendar year 1972. Said Program provided for the drilling of no wells during 1972; however, a Supplemental 1972 Drilling Program was submitted on October 26, 1972, providing for the drilling of two (2) Pictured Cliffs wells. You approved both these Programs.

The Cox Canyon Unit #10 and #11 Pictured Cliffs wells were drilled in 1972, and are presently awaiting frac. A determination will be subsequently made as to whether these wells will occasion the Initial Expansion of the Pictured Cliffs Participating Area.

Also, eight (8) commercial Mesaverde wells have been drilled in the Unit Area, and in addition to these wells, the Unit has a 25% interest in the Riddle #1 and Fields #5 wells which were drilled outside the Unit in the Mesaverde formation. Each of the non-Unit wells has an 80-acre tract from the Unit Area communitized with it. All of the acreage in the Unit is presently included in the Mesaverde Participating Area.

January 12, 1973

Therefore, and pursuant to Section 10 of the Cox Canyon Unit Agreement, El Paso Natural Gas Company, as Unit Operator, is submitting this Drilling Program which provides that no wells be drilled during the period from January 1, 1973, to December 31, 1973.

All the working interest owners have been contacted, and this Drilling Program reflects their desires for no additional drilling, and El Paso Natural Gas Company, as Unit Operator, and the working interest owners believe that all current Unit obligations have been satisfied.

El Paso Natural Gas Company, as Unit Operator, will drill any offset wells that may be required to prevent drainage of unitized substances, and any other wells deemed necessary or which are requested by the Unit Operator and the working interest owners.

If this Drilling Program is acceptable, please signify your approval as required under Section 10 of the Unit Agreement in the space provided on the attached sheet and return an approved copy to El Paso Natural Gas Company.

Copies of this Drilling Program are being sent to the working interest owners as shown on the attached sheet.

Yours very truly,



D. N. Canfield  
Manager  
Land Department  
Energy Resource Development

DNC:CTR:nja  
Enclosures  
Cox Canyon 3.0

APPROVED: \_\_\_\_\_ DATE: \_\_\_\_\_  
Regional Oil and Gas Supervisor  
United States Geological Survey  
Subject to like approval by the  
Commissioner of Public Lands and  
the Oil Conservation Commission

APPROVED: \_\_\_\_\_ DATE: \_\_\_\_\_  
Commissioner of Public Lands  
Subject to like approval by the  
United States Geological Survey and  
the Oil Conservation Commission

APPROVED:  \_\_\_\_\_ DATE: January 23 1973  
Oil Conservation Commission  
Subject to like approval by the  
United States Geological Survey and  
the Commissioner of Public Lands

The foregoing approvals are for the 1973 Drilling Program for the  
Cox Canyon Unit, I Sec. No. 946, San Juan County, New Mexico.

COX CANYON UNIT  
Working Interest Owners

Atlantic Richfield Company (3)

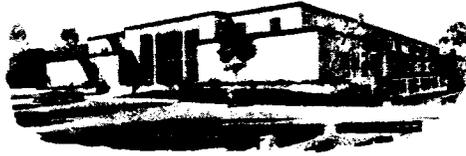
Colorado Oil & Gas Corporation

Continental Oil Company

Tenneco Oil Company

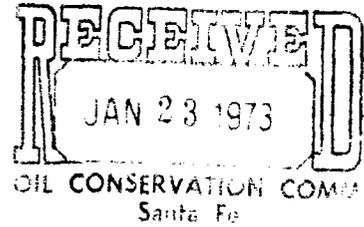
State of New Mexico

TELEPHONE  
505-827-2748



Commissioner of Public Lands

January 22, 1973



P. O. BOX 1148  
SANTA FE, NEW MEXICO

ALEX J. ARMIJO  
COMMISSIONER

El Paso Natural Gas Company  
P. O. Box 1492  
El Paso, Texas 79999

Re: Cox Canyon Unit  
San Juan County, New Mexico  
1973 DRILLING PROGRAM

ATTENTION: Mr. D. W. Canfield

Gentlemen:

The Commissioner of Public Lands has this date approved your 1973 Drilling Program for the Cox Canyon Unit, San Juan County, New Mexico, proposing the drilling of no additional wells during 1973. This approval is subject to like approval by the United States Geological Survey and the Oil Conservation Commission.

One approved copy of the plan is enclosed.

Please remit a Three (\$3.00) Dollar filing fee.

Very truly yours,

RAY D. GRAHAM, Director  
Oil and Gas Department

AJA/RDG/s

encl.

cc: USGS-Roswell, New Mexico  
OCC- Santa Fe, New Mexico

# El Paso Natural Gas Company

El Paso, Texas 79999

November 9, 1972

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

Commissioner of Public Lands  
State of New Mexico  
P. O. Box 1148  
Santa Fe, New Mexico 87501

Oil Conservation Commission  
State of New Mexico  
P. O. Box 2088  
Santa Fe, New Mexico 87501

Re: Cox Canyon Unit, I Sec. No. 946  
San Juan County, New Mexico  
1972 SUPPLEMENTAL DRILLING PROGRAM

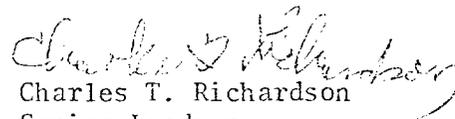
Gentlemen:

A 1972 Supplemental Drilling Program for the Cox Canyon Unit dated October 26, 1972, was approved by the regulatory bodies on the following dates:

United States Geological Survey	-	November 1, 1972
Commissioner of Public Lands	-	October 31, 1972
Oil Conservation Commission	-	October 30, 1972

Copies of this letter are being sent to the working interest owners of the referenced Unit.

Yours very truly,

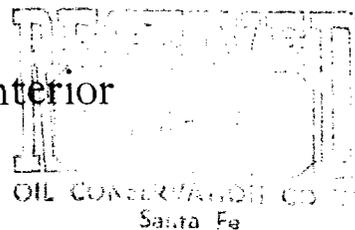
  
Charles T. Richardson  
Senior Landman  
Land Department  
Energy Resource Development

CTR:nja  
Cox Canyon 3.0



# United States Department of the Interior

GEOLOGICAL SURVEY  
Drawer 1857  
Roswell, New Mexico 88201



November 1, 1972

El Paso Natural Gas Company  
P.O. Box 1492  
El Paso, Texas 79978

Attention: Mr. D. N. Canfield

Gentlemen:

On this date, your 1972 supplemental plan of development for the Cox Canyon unit area, San Juan County, New Mexico, wherein you propose to drill unit wells No. 10 and No. 11 in the NE $\frac{1}{4}$  and SE $\frac{1}{4}$ , respectively, of sec. 21, T. 32 N., R. 11 W., N.M.P.M., to the Pictured Cliffs was approved. Such approval is subject to like approval by the appropriate officials of the State of New Mexico.

Two approved copies of the plan are enclosed.

Sincerely yours,

CARL C. TRAYWICK  
Acting Area Oil and Gas Supervisor

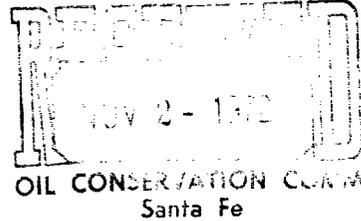
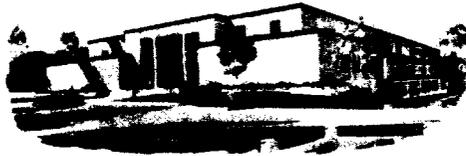
cc:  
Washington (w/cy plan)  
Farmington (w/cy plan)  
NMOCC, Santa Fe (ltr. only)  
Com. Pub. Lands, Santa Fe (ltr. only)

JAG:llham:ds

State of New Mexico

TELEPHONE

505-627-2748



Commissioner of Public Lands

October 31, 1972

ALEX J. ARMIJO  
COMMISSIONER

P. O. BOX 1148  
SANTA FE, NEW MEXICO

361

El Paso Natural Gas Company  
P. O. Box 1492  
El Paso, Texas 79999

Re: Cox Canyon Unit  
1972 SUPPLEMENTAL DRILLING  
PROGRAM  
San Juan County, New Mexico

ATTENTION: Mr. D. M. Canfield

Gentlemen:

The Commissioner of Public Lands has this date approved your Supplemental Drilling Program for the Year 1972, for the Cox Canyon Unit, proposing the drilling of wells No. 10 and 11 and also will drill any offset wells required to prevent drainage of unitized substances, and any other wells deemed necessary. This approval is subject to like approval by the United States Geological Survey and the Oil Conservation Commission.

One approved copy of the plan is enclosed.

Please remit a Three (\$3.00) Dollar filing fee.

Very truly yours,

RAY D. GRAHAM, Director  
Oil and Gas Department

AJA/RDC/s

encls.

cc: HGS-Roswell, New Mexico (copy of ltr only)  
OCC- Santa Fe, New Mexico (copy of ltr only)

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

361

October 30, 1972

El Paso Natural Gas Company  
Box 1492  
El Paso, Texas

Attention: Mr. D. N. Canfield

Re: 1972 Supplemental Drilling  
Program, Cox Canyon Unit,  
San Juan County, New Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the 1972 Supplemental Drilling Program dated October 26, 1972, for the Cox Canyon Unit, San Juan County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

One approved copy of the program is returned herewith.

Very truly yours,

A. L. PORTER, Jr.  
Secretary-Director

ALP/WEA/og

cc: United States Geological Survey  
Roswell, New Mexico

Commissioner of Public Lands  
Land Office Building  
Santa Fe, New Mexico

# El Paso Natural Gas Company

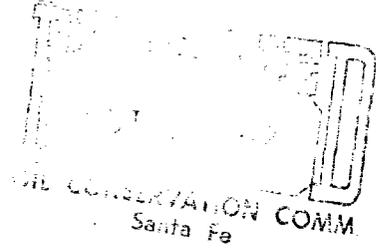
El Paso, Texas 79978

October 26, 1972

Regional Oil & 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 Commission  
State of New Mexico  
Post Office Box 2088  
Santa Fe, New Mexico 87501



Re: Cox Canyon Unit, I Sec. No. 946  
San Juan County, New Mexico  
1972 SUPPLEMENTAL DRILLING  
PROGRAM

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Gentlemen:

By letter dated January 17, 1972, El Paso Natural Gas Company, as Unit Operator, filed a Drilling Program on the captioned Unit for the calendar year 1972, which provided for the drilling of no wells in the Unit during 1972, and you previously approved this Drilling Program.

El Paso Natural Gas Company now desires, however, as Unit Operator, to amend its 1972 Program to provide for the drilling of the following wells during the calendar year 1972:

<u>Well and Dedication</u>	<u>Formation</u>
Cox Canyon Unit #10, NE/4 Sec. 21, T-32-N, R-11-W, N.M.P.M.	Pictured Cliffs
Cox Canyon Unit #11, SE/4 Sec. 21, T-32-N, R-11-W, N.M.P.M.	Pictured Cliffs

Regional Oil & Gas Supervisor  
Commissioner of Public Lands  
Oil Conservation Commission  
Page Two

October 26, 1972

This well will be drilled by El Paso Natural Gas Company, as Unit Operator, within the limits of the existing Pictured Cliffs Participating Area.

In addition to the #10 and #11 Wells, El Paso Natural Gas Company, as Unit Operator, will drill any offset wells required to prevent drainage of unitized substances, and any other wells deemed necessary by the Unit Operator and the working interest owners.

If this 1972 Supplemental Drilling Program is acceptable, please signify your approval as required under Section 10 of the Unit Agreement in the space provided on the attached sheet and return an approved copy to this office.

Copies of this letter are being sent to the working interest owners shown on the attached sheet.

Yours very truly,



D. N. Canfield  
Manager  
Land Department  
Energy Resource Development

DNC:CTR:1j  
Attachments  
Cox Canyon Unit 3.0, 4.1

APPROVED: \_\_\_\_\_  
Regional Oil and Gas Supervisor  
United States Geological Survey  
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  
United States Geological Survey and  
the Oil Conservation Commission

DATE: \_\_\_\_\_

APPROVED: A. H. Parker, Jr.  
Oil Conservation Commission  
Subject to like approval by the  
United States Geological Survey and  
the Commissioner of Public Lands

DATE: Oct. 30, 1972

The foregoing approvals are for the 1972 Supplemental Drilling Program for the Cox Canyon Unit, I Sec. No. 946, San Juan County, New Mexico.

Working Interest Owners  
Cox Canyon Unit

Atlantic Richfield Company

Colorado Oil & Gas Corporation

Continental Oil Company

Tenneco Oil Company

# El Paso Natural Gas Company

El Paso, Texas 79978

March 6, 1972

361

Regional Oil & 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 Commission  
State of New Mexico  
Post Office Box 2088  
Santa Fe, New Mexico 87501

Re: 1972 DRILLING PROGRAMS  
San Juan County, New Mexico

Gentlemen:

The 1972 Drilling Programs for the following Units were approved by the Regulatory Bodies on the dates indicated.

<u>Unit</u>	<u>USGS</u>	<u>CPL</u>	<u>OCC</u>
✓ Cox Canyon Unit I Sec. No. 946	3-1-72	1-24-72	2-11-72
San Juan 32-8 Unit #14-08-001-446	3-1-72	1-21-72	2-11-72

Copies of this letter are being sent to the working interest owners of the above-described units.

Yours very truly,

*James R. Permenter*

James R. Permenter  
Supervising Landman  
Land Department  
Energy Resource Development

JRP:CTR:khs  
Cox Canyon Unit 3.0  
San Juan 32-8 Unit 3.0



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY  
Drawer 1857  
Roswell, New Mexico 88201

IN REPLY REFER TO:

**RECEIVED**  
MAR - 3 1972  
OIL CONSERVATION COMM.

March 1, 1972

36

El Paso Natural Gas Company  
P.O. Box 1492  
El Paso, Texas 79978

Attention: Mr. T. W. Bittick

Gentlemen:

Your 1972 plan of development for the Cox Canyon unit area, San Juan County, New Mexico, proposing the drilling of no additional wells, has been approved on this date subject to like approval by the appropriate State officials.

Two approved copies of the plan are enclosed.

Sincerely yours,

(ORIGINAL)

N. O. FREDERICK  
Regional Oil and Gas Supervisor

cc:  
Washington (w/cy plan)  
Farmington (w/cy plan)  
NMOCC, Santa Fe (ltr only)  
Com. Pub. Lands, Santa Fe (ltr. only)

**OIL CONSERVATION COMMISSION**

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

February 11, 1972

341

El Paso Natural Gas Company  
Box 1492  
El Paso, Texas

Attention: Mr. T. W. Bittick

Re: 1972 Drilling Program  
Cox Canyon Unit, San  
Juan County, New Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Drilling Program for the calendar year 1972 for the Cox Canyon Unit, San Juan County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

One approved copy of the program is returned herewith.

Very truly yours,

A. L. PORTER, Jr.  
Secretary-Director

ALP/JEK/og

cc: United States Geological Survey - Roswell  
Commissioner of Public Lands - Santa Fe

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RECEIVED  
JAN 24 1972  
U.S. GEOLOGICAL SURVEY

January 24, 1972

El Paso Natural Gas Company  
P. O. Box 1492  
El Paso, Texas 79999

Re: Cox Canyon Unit  
San Juan County, New Mexico  
1972 DRILLING PROGRAM

ATTENTION: Mr. T. W. Bittick

Gentlemen:

Your 1972 Drilling Program for the Cox Canyon Unit, San Juan County, New Mexico, proposing the drilling of no additional wells for the year 1972, has been approved on this date subject to like approval by the United States Geological Survey and the Oil Conservation Commission.

One approved copy of the plan is enclosed.

Please remit a Three (\$3.00) Dollar filing fee.

Very truly yours,

RAY D. GRAHAM, Director  
Oil and Gas Department

AJA/RDG/s  
encls.

cc: USGS-Roswell, New Mexico  
OCC- Santa Fe, New Mexico

# El Paso Natural Gas Company

El Paso, Texas 79978

January 17, 1972

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

Commissioner of Public Lands  
State of New Mexico  
P. O. Box 1148  
Santa Fe, New Mexico 87501

Oil Conservation Commission  
State of New Mexico  
P. O. Box 2088  
Santa Fe, New Mexico 87501

Re: Cox Canyon Unit, I Sec. No. 946  
San Juan County, New Mexico  
1972 DRILLING PROGRAM

Gentlemen:

Pursuant to Section 10 of the Cox Canyon Unit Agreement, El Paso Natural Gas Company, as Unit Operator, is submitting this Drilling Program which provides that no wells be drilled during the period from January 1, 1972 to December 31, 1972.

As of this date, eight (8) commercial Mesaverde wells have been drilled in the Unit Area, and in addition to these, the Unit has a 25% interest in the Riddle #1 and Fields #5 Wells which were drilled outside the Unit in the Mesaverde Formation. Each of the non-Unit wells has an 80-acre tract from the Unit Area communitized with it. All of the acreage in the Unit is presently included in the Mesaverde Participating Area.

All of the working interest owners have been contacted, and this Drilling Program reflects their desires for no additional drilling, and El Paso Natural Gas Company, as Unit Operator, and the working interest owners believe that all current Unit obligations have been satisfied in view of the complete development of the Mesaverde Formation within the Cox Canyon Unit Area.

Regional Oil & Gas Supervisor  
Commissioner of Public Lands  
Oil Conservation Commission  
Page Two

January 17, 1972

El Paso Natural Gas Company, as Unit Operator, plans to drill any offset wells required to prevent drainage of unitized substances and other wells deemed necessary or desirable by the Unit Operator and other working interest owners.

If this Drilling Program is acceptable, please signify your approval as required under Section 10 of the Unit Agreement in the space provided on the attached sheet and return an approved copy to El Paso Natural Gas Company.

Copies of this Drilling Program are being sent to the working interest owners as shown on the attached sheet.

Yours very truly,



T. W. Bittick  
Director  
Lands and Administration  
Energy Resource Development

TWB:CTR:nja  
Enclosures  
Cox Canyon 3.0

APPROVED: \_\_\_\_\_  
Regional Oil and Gas Supervisor  
United States Geological Survey  
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  
United States Geological Survey and  
the Oil Conservation Commission

DATE: \_\_\_\_\_

APPROVED: A. L. Porter, Jr.  
Oil Conservation Commission  
Subject to like approval by the  
United States Geological Survey and  
the Commissioner of Public Lands

DATE: Feb 11, 1972

The foregoing approvals are for the 1972 Drilling Program for the Cox Canyon Unit,  
I Sec. No. 946, San Juan County, New Mexico.

**COX CANYON**  
**Working Interest Owners**

**Atlantic Richfield Company (3)**

**Colorado Oil & Gas Corporation**

**Continental Oil Company**

**Tenneco Oil Company**

# El Paso Natural Gas Company

El Paso, Texas 79900

March 16, 1971

3/16/71

361

Regional Oil & 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 Commission  
State of New Mexico  
Post Office Box 2088  
Santa Fe, New Mexico 87501

Re: 1971 DRILLING PROGRAM  
Cox Canyon Unit, I Sec. No. 946  
San Juan County, New Mexico

Gentlemen:

The 1971 Drilling Program for the captioned Unit was approved by you on the dates indicated:

United States Geological Survey - March 11, 1971  
Commissioner of Public Lands - January 14, 1971  
Oil Conservation Commission - January 14, 1971

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

Yours very truly,

  
Charles T. Richardson  
Senior Landman  
Land Department

CTR:khs  
Cox Canyon Unit 3.0

Drawer 1857  
Roswell, New Mexico 88201

71 MAR 18 11 11 63

March 11, 1971

El Paso Natural Gas Company  
P. O. Box 1492  
El Paso, Texas 79999

Attention: Mr. T. W. Bittick

Gentlemen:

Your 1971 plan of development for the Cox Canyon unit area, San Juan County, New Mexico, proposing the drilling of no additional wells, has been approved on this date subject to like approval by the appropriate State officials.

Two approved copies of the plan are enclosed.

Sincerely yours,

CARL C. TRAYWICK

CARL C. TRAYWICK  
Acting Oil and Gas Supervisor

cc:  
Washington (w/cy plan)  
Farmington (w/cy plan)  
NMOCC, Santa Fe (ltr. only) ✓  
Com. Pub. Lands, Santa Fe (ltr. only)

71 JAN 19 11 00 17

January 14, 1971

El Paso Natural Gas Company  
P. O. Box 1492  
El Paso, Texas 79999

Re: Cox Canyon Unit  
San Juan County, New Mexico  
1971 DRILLING PROGRAM

ATTENTION: Mr. T. W. Bittick

Gentlemen:

Your 1971 Drilling Program for the Cox Canyon Unit, San Juan County, New Mexico, proposing the drilling of no additional wells for the year 1971, has been approved on this date subject to like approval by the United States Geological Survey and the Oil Conservation Commission.

One approved copy of the plan is enclosed.

Please remit a Three (\$3.00) Dollar filing fee.

Sincerely yours,

GORDON G. MARCUM, II, Director  
Oil and Gas Department

AJA/GM/s  
encl.

cc: USGS-Roswell, New Mexico  
OCC- Santa Fe, New Mexico

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

361

January 14, 1971

El Paso Natural Gas Company  
P. O. Box 1492  
El Paso, Texas 79999

Attention: Mr. T. W. Bittick

Re: 1971 Drilling Program  
Cox Canyon Unit  
San Juan County, New Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Drilling Program for the calendar year 1971 providing for the drilling of no wells during the year for the Cox Canyon Unit, San Juan County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

One approved copy of the program is returned herewith.

Very truly yours,

A. L. PORTER, Jr.  
Secretary-Director

ALP/JEK/og

cc: United States Geological Survey  
Drawer 1857  
Roswell, New Mexico 88201

Commissioner of Public Lands  
P. O. Box 1148  
Santa Fe, New Mexico 87501

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# El Paso Natural Gas Company

El Paso, Texas 79999

January 6, 1971

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

Commissioner of Public Lands  
State of New Mexico  
P. O. Box 1148  
Santa Fe, New Mexico 87501

Oil Conservation Commission  
State of New Mexico  
P. O. Box 2088  
Santa Fe, New Mexico 87501

Re: Cox Canyon Unit, I Sec. No. 946  
San Juan County, New Mexico  
1971 DRILLING PROGRAM

Gentlemen:

Pursuant to Section 10 of the Cox Canyon Unit Agreement, El Paso Natural Gas Company, as Unit Operator, is submitting this Drilling Program which provides that no wells be drilled during the period from January 1, 1971, to December 31, 1971.

As of this date, eight (8) commercial Mesaverde wells have been drilled in the Unit Area and in addition to these, the Unit has a 25% interest in the Riddle #1 and Fields #5 Wells which were drilled outside the Unit in the Mesaverde Formation. Each of the non-Unit wells has an 80-acre tract from the Unit Area communitized with it. All of the acreage in the Unit is presently included in the Mesaverde Participating Area.

All of the working interest owners have been contacted and this Drilling Program reflects their desires for additional drilling, and El Paso Natural Gas Company, as Unit Operator, and the working interest owners believe that all current Unit obligations have been satisfied in view of the complete development of the Mesaverde Formation within the Cox Canyon Unit Area.

Regional Oil & Gas Supervisor  
Commissioner of Public Lands  
Oil Conservation Commission  
Page Two

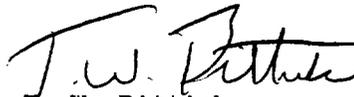
January 6, 1971

El Paso Natural Gas Company, as Unit Operator, plans to drill any offset wells required to prevent drainage of unitized substances and other wells deemed necessary or desirable by the Unit Operator and other working interest owners.

If this Drilling Program is acceptable, please signify your approval as required under Section 10 of the Unit Agreement in the space provided on the attached sheet and return an approved copy to El Paso Natural Gas Company.

Copies of this Drilling Program are being sent to the working interest owners as shown on the attached sheet.

Yours very truly,



T. W. Bittick  
Manager  
Land Department

TWB:CTR:ec  
Enclosures  
Cox Canyon 3.0

APPROVED: \_\_\_\_\_  
Regional Oil and Gas Supervisor  
United States Geological Survey  
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  
United States Geological Survey and  
the Oil Conservation Commission

DATE: \_\_\_\_\_

APPROVED: *A. S. Bate J.*  
Oil Conservation Commission  
Subject to like approval by the  
United States Geological Survey and  
the Commissioner of Public Lands

DATE: *January 14, 1971*

The foregoing approvals are for the 1971 Drilling Program for the Cox Canyon Unit,  
I Sec. No. 946, San Juan County, New Mexico.

COX CANYON UNIT  
Working Interest Owners

Atlantic Richfield Company (3)

Colorado Oil & Gas Corporation

Continental Oil Company

Tenneco Oil Company

# El Paso Natural Gas Company

El Paso, Texas 79994

February 24, 1970

70 FEB 26 AM 8

361

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

Commissioner of Public Lands  
State of New Mexico  
P. O. Box 1148  
Santa Fe, New Mexico 87501

Oil Conservation Commission  
State of New Mexico  
P. O. Box 2088  
Santa Fe, New Mexico 87501

Re: 1970 DRILLING PROGRAMS  
San Juan and Rio Arriba  
Counties, New Mexico

Gentlemen:

The 1970 Drilling Programs for the following Units were approved by the Regulatory Bodies on the dates indicated:

<u>Unit</u>	<u>USGS</u>	<u>CPL</u>	<u>OCC</u>
✓ Cox Canyon I Sec. No. 946	2-19-70	1-15-70	1-21-70
Huerfanito I Sec. No. 943	2-19-70	1-15-70	1-21-70
San Juan 28-5 #14-08-001-949	2-17-70	None Required	1-21-70

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

Yours very truly,

*Charles Higgins*  
Charles Higgins  
Supervising Landman  
Land Department

CH:CR:sf  
Cox Canyon 3.0  
Huerfanito 3.0  
San Juan 28-5, 3.0



# United States Department of the Interior

GEOLOGICAL SURVEY  
Drawer 1857  
Roswell, New Mexico 88201

RECEIVED  
FEB 24 1970  
AM 8 28

February 19, 1970

261

El Paso Natural Gas Company  
P. O. Box 1492  
El Paso, Texas 79999

Attention: Mr. T. W. Bittick

Gentlemen:

Your 1970 plan of development for the Cox Canyon unit area, San Juan County, New Mexico, proposing the drilling of no additional wells, has been approved on this date subject to like approval by the appropriate State officials.

Two approved copies of the plan are enclosed.

Sincerely yours,

(ORIG. SGN) BILLY J. SHOGER

BILLY J. SHOGER  
Acting Oil and Gas Supervisor

cc:  
Washington (w/cy plan)  
Farmington (w/cy plan)  
NMOCC, Santa Fe (ltr. only) —  
Com. Pub. Lands, Santa Fe (ltr. only)

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

January 21, 1970

361

El Paso Natural Gas Company  
P. O. Box 1492  
El Paso, Texas 79999

Attention: Mr. T. W. Bittick

Re: 1970 Drilling Program  
Cox Canyon Unit, San Juan  
County, New Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Drilling Program for the Calendar Year 1970 for the Cox Canyon Unit, San Juan County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

One approved copy of the program is returned herewith.

Very truly yours,

A. L. PORTER, Jr.  
Secretary-Director

ALP/JEK/og  
Enclosure

cc: United States Geological Survey  
Roswell, New Mexico

Commissioner of Public Lands  
Santa Fe, New Mexico

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January 15, 1970

**El Paso Natural Gas Company  
P. O. Box 1492  
El Paso, Texas 79999**

**Re: Cox Canyon Unit  
San Juan County, New Mexico  
1970 DRILLING PROGRAM**

**ATTENTION: Mr. T. W. Bittick**

**Gentlemen:**

**Your 1970 Drilling Program for the Cox Canyon Unit, San Juan County, New Mexico, proposing the drilling of no additional wells for the year 1970, has been approved on this date subject to like approval by the United States Geological Survey and the Oil Conservation Commission.**

**One approved copy of the plan is enclosed.**

**Very truly yours,**

**Ted Bilberry, Director  
Oil and Gas Department**

**TA/ML/s  
encls.**

**cc: USGS-Roswell, New Mexico  
OCC-Santa Fe, New Mexico**

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# El Paso Natural Gas Company

El Paso, Texas 79999

January 6, 1970

Mr. John A. Anderson  
Regional Oil and Gas Supervisor  
United States Geological Survey  
Drawer 1857  
Roswell, New Mexico 88201

Commissioner of Public Lands  
State of New Mexico  
P. O. Box 1148  
Santa Fe, New Mexico 87501

Oil Conservation Commission  
State of New Mexico  
P. O. Box 2088  
Santa Fe, New Mexico 87501

Re: Cox Canyon Unit, I Sec. No. 946  
San Juan County, New Mexico  
1970 DRILLING PROGRAM

Gentlemen:

Pursuant to Section 10 of the Cox Canyon Unit Agreement, El Paso Natural Gas Company, as Unit Operator, is submitting this Drilling Program which provides that no wells be drilled during the period from January 1, 1970 to December 31, 1970.

As of this date, eight (8) commercial Mesaverde wells have been drilled in the Unit Area and in addition to these, the Unit has a 25% interest in the Riddle #1 and Fields #5 Wells which were drilled outside the Unit in the Mesaverde Formation. Each of the non-Unit wells has an 80-acre tract from the Unit Area communitized with it. All of the acreage in the Unit is presently included in the Mesaverde Participating Area.

All of the working interest owners have been contacted and this Drilling Program reflects their desires for additional drilling, and El Paso Natural Gas Company, as Unit Operator, and the working interest owners believe that all current Unit obligations have been satisfied in view of the complete development of the Mesaverde Formation within the Cox Canyon Unit Area.

Mr. John A. Anderson  
Commissioner of Public Lands  
Oil Conservation Commission  
Page 2

January 6, 1970

El Paso Natural Gas Company, as Unit Operator, plans to drill any offset wells required to prevent drainage of unitized substances and other wells deemed necessary or desirable by the Unit Operator and other working interest owners.

If this Drilling Program is acceptable, please signify your approval as required under Section 10 of the Unit Agreement in the space provided on the attached sheet and return an approved copy to El Paso Natural Gas Company.

Copies of this Drilling Program are being sent to the working interest owners as shown on the attached sheet.

Yours very truly,



T. W. Bittick  
Manager  
Land Department

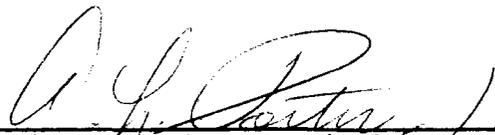
TWB:CTR:sf  
Enclosures  
Cox Canyon, 3.0

APPROVED: \_\_\_\_\_  
Regional Oil and Gas Supervisor  
United States Geological Survey  
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 United  
States Geological Survey and the Oil  
Conservation Commission.

DATE: \_\_\_\_\_

APPROVED:  \_\_\_\_\_  
Oil Conservation Commission  
Subject to like approval by the  
United States Geological Survey and  
the Commissioner of Public Lands.

DATE: January 21, 1970

The foregoing approvals are for the 1970 Drilling Program for the Cox Canyon Unit, I Sec. No. 946, San Juan County, New Mexico.

COX CANYON  
Working Interest Owners

Atlantic Richfield Company (3)

Colorado Oil & Gas Corporation

Continental Oil Company

Tenneco Oil Company

# El Paso Natural Gas Company

El Paso, Texas 79999

69 MAR 10 11 17

March 7, 1969

Mr. John A. Anderson  
Regional Oil & Gas Supervisor  
United States Geological Survey  
Drawer 1857  
Roswell, New Mexico

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

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

Re: Cox Canyon Unit, I Sec. No. 946  
San Juan County, New Mexico  
1969 DRILLING PROGRAM

Gentlemen:

The 1969 Drilling Program dated January 6, 1969, for the referenced Unit was approved by the Regulatory Bodies on the dates indicated below:

United States Geological Survey	-	March 4, 1969
Commissioner of Public Lands	-	January 8, 1969
Oil Conservation Commission	-	January 23, 1969

Copies of this letter are being sent to the working interest owners of the above-described Unit.

Yours very truly,



Charles Higgins  
Supervising Landman  
Land Department

CH:JS:nja  
Cox Canyon, 3.0



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Drawer 1857  
Roswell, New Mexico 88201

1969 MAR 6 AM 8 17

IN REPLY REFER TO:

361

March 4, 1969

El Paso Natural Gas Company  
P. O. Box 1492  
El Paso, Texas 79999

Attention: Mr. T. W. Bittick

Gentlemen:

Your 1969 plan of development for the Cox Canyon unit area, San Juan County, New Mexico, proposing the drilling of no additional wells, has been approved on this date subject to like approval by the appropriate State officials.

Two approved copies of the plan are enclosed.

Sincerely yours.

JOHN A. ANDERSON  
Regional Oil and Gas Supervisor

cc:  
Washington (w/cy. plan)  
Farmington (w/cy. plan)  
MIOCC, Santa Fe (ltr. only) ✓  
Com. of Pub. Lands, Santa Fe (ltr. only)

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

January 23, 1969

361

El Paso Natural Gas Company  
P. O. Box 1492  
El Paso, Texas 79999

Attention: Mr. T. W. Bittick

Re: 1969 Drilling Program  
Cox Canyon Unit, San  
Juan County, New Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Drilling Program for the calendar year 1969 for the Cox Canyon Unit, San Juan County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

One approved copy of the program is returned herewith.

Very truly yours,

A. L. PORTER, Jr.  
Secretary-Director

ALP/JEK/og

cc: Commissioner of Public Lands - Santa Fe  
United States Geological Survey - Roswell

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MAIL ROOM

69 JAN 13 AM 8 23

January 8, 1969

El Paso Natural Gas Company  
P. O. Box 1492  
El Paso, Texas 79999

Re: Cox Canyon Unit  
San Juan County, New Mexico  
1969 Drilling Program

ATTENTION: Mr. T. W. Bittick

Gentlemen:

Your 1969 Drilling Program for the Cox Canyon Unit, San Juan County, New Mexico, proposing to drill any offset wells required to prevent drainage of unitized substances and other wells deemed necessary, has been approved on this date subject to like approval by the United States Geological Survey and the Oil Conservation Commission.

One approved copy of the plan is enclosed.

Very truly yours,

ALEX J. ARMIJO  
COMMISSIONER OF PUBLIC LANDS

BY:  
Ted Bilberry, Director  
Oil and Gas Department

AJA/TR/ML/s  
encl.

cc: USGS-Roswell, New Mexico  
OCC- Santa Fe, New Mexico

# El Paso Natural Gas Company

El Paso, Texas 79999

January 6, 1969

RECEIVED  
JAN 8 1969 AM 8 18

Mr. John A. Anderson  
Regional Oil and Gas Supervisor  
United States Geological Survey  
Drawer 1857  
Roswell, New Mexico 88201

Commissioner of Public Lands  
State of New Mexico  
P. O. Box 1148  
Santa Fe, New Mexico 87501

Oil Conservation Commission  
State of New Mexico  
P. O. Box 2088  
Santa Fe, New Mexico 87501

Re: Cox Canyon Unit, I Sec. No. 946  
San Juan County, New Mexico  
1969 DRILLING PROGRAM

Gentlemen:

Pursuant to Section 10 of the Cox Canyon Unit Agreement, El Paso Natural Gas Company, as Unit Operator, is submitting this Drilling Program which provides that no wells be drilled during the period from January 1, 1969 to December 31, 1969.

As of this date, eight (8) commercial Mesaverde wells have been drilled in the Unit Area and in addition to these, the Unit has a 25% interest in the Riddle #1 and Fields #5 Wells which were drilled outside the Unit in the Mesaverde Formation. Each of the non-Unit wells has an 80-acre tract from the Unit Area communitized with it. All of the acreage in the Unit is presently included in the Mesaverde Participating Area.

All of the working interest owners have been contacted and this Drilling Program reflects their desires for additional drilling, and El Paso Natural Gas Company, as Unit Operator, and the working interest owners believe that all current Unit obligations have been satisfied in view of the complete development of the Mesaverde Formation within the Cox Canyon Unit Area.

El Paso Natural Gas Company, as Unit Operator, plans to drill any offset wells required to prevent drainage of unitized substances and other wells deemed necessary or desirable by the Unit Operator and other working interest owners.

If this Drilling Program is acceptable, please signify your approval as required under Section 10 of the Unit Agreement in the space provided on the attached sheet and return an approved copy to El Paso Natural Gas Company.

Copies of this Drilling Program are being sent to the working interest owners as shown on the attached sheet.

Yours very truly,



T. W. Bittick  
Manager  
Land Department

TWB:JS:nja  
Attachments

Cox Canyon, 3.0

APPROVED: \_\_\_\_\_  
Supervisor, United States Geological Survey  
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 United  
States Geological Survey and the Oil  
Conservation Commission

DATE: \_\_\_\_\_

APPROVED: A. L. Carter, Jr.  
Oil Conservation Commission  
Subject to like approval by the United  
States Geological Survey and the  
Commissioner of Public Lands

DATE: January 29, 1969

The foregoing approvals are for the 1969 Drilling Program for the  
Cox Canyon Unit, I Sec. No. 946, San Juan County, New Mexico.

COX CANYON  
Working Interest Owners

Colorado Oil & Gas Corporation  
Denver Club Building  
P. O. Box 749  
Denver, Colorado 80201

Sinclair Oil Corporation (3)  
Attention: Mr. S. K. Van Steenbergh  
Attention: Mr. W. A. Walther, Jr.  
501 Lincoln Tower Building  
1860 Lincoln Street  
Denver, Colorado 80203

Tenneco Oil Company  
Attention: Mr. C. W. Nance  
Suite 1200, Lincoln Tower Building  
1860 Lincoln Street  
Denver, Colorado 80203

Tenneco Oil Company  
Attention: Mr. J. P. Wasinger  
P. O. Box 2410  
Denver, Colorado 80201

Continental Oil Company  
Attention: Mr. W. C. Blackburn  
200 North Wolcott  
Casper, Wyoming 82601

El Paso Natural Gas Company

El Paso, Texas 79999

March 5, 1968

Mr. John A. Anderson  
Regional Oil and Gas Supervisor  
United States Geological Survey  
Drawer 1857  
Roswell, New Mexico 88201

Oil Conservation Commission  
State of New Mexico  
P. O. Box 2088  
Santa Fe, New Mexico 87501

Commissioner of Public Lands  
State of New Mexico  
P. O. Box 1148  
Santa Fe, New Mexico

Re: 1968 Drilling Program  
Cox Canyon Unit I Sec. No. 946  
San Juan County, New Mexico

Gentlemen:

The 1968 Drilling Program for the referenced Unit was approved by the regulatory bodies on the dates indicated:

United States Geological Survey	March 4, 1968
Oil Conservation Commission	January 26, 1968
Commissioner of Public Lands	January 24, 1968

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

Yours very truly,

*Charles Higgins*  
Charles Higgins  
Supervising Landman  
Land Department

CH:JS:jlw

Cox Canyon Unit 3.0



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Drawer 1857  
Roswell, New Mexico 88201

March 4, 1968

El Paso Natural Gas Company  
P. O. Box 1492  
El Paso, Texas 79999

Attention: Mr. T. W. Bittick

Gentlemen:

Your 1968 plan of development dated January 10, 1968, for the Cox Canyon unit area, San Juan County, New Mexico, proposing the drilling of no additional wells, has been approved on this date subject to like approval by the appropriate State officials.

Two approved copies of the plan are enclosed.

Sincerely yours,

(Signature)

JOHN A. ANDERSON  
Regional Oil and Gas Supervisor

cc:  
Washington (w/cy. plan)  
Farmington (w/cy. plan)  
NMOCC, Santa Fe (ltr. only) ✓  
Com. of Pub. Lands, Santa Fe (ltr. only)

60 MAR 5 1968

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

361

January 26, 1968

C  
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Y  
  
El Paso Natural Gas Company  
P. O. Box 1492  
El Paso, Texas 79999

Attention: Mr. T. W. Bittick

Re: 1968 Drilling Program  
Cox Canyon Unit, San Juan  
County, New Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Drilling Program for the calendar year 1968, providing for the drilling of no wells, for the Cox Canyon Unit, San Juan County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

One approved copy of the program is returned herewith.

Very truly yours,

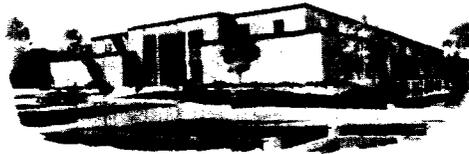
A. L. PORTER, Jr.  
Secretary-Director

ALP/JEK/esr

cc: United States Geological Survey  
Drawer 1857  
Roswell, New Mexico

Commissioner of Public Lands  
Santa Fe, New Mexico

State of New Mexico



Commissioner of Public Lands



January 24, 1968

GUYTON B. HAYS  
COMMISSIONER

P. O. BOX 1148  
SANTA FE, NEW MEXICO

El Paso Natural Gas Company  
P. O. Box 1492  
El Paso, Texas 79999

Re: Cox Canyon Unit  
San Juan County, New Mexico  
1968 Drilling Program

ATTENTION: Mr. T. W. Bittick

Gentlemen:

The Commissioner of Public Lands has this date approved your 1968 Drilling Program for the Cox Canyon Unit, San Juan County, New Mexico, proposing the drilling of no additional wells.

This approval is subject to like approval by the United States Geological Survey and the Oil Conservation Commission.

One approved copy of the plan is enclosed.

Very truly yours,

GUYTON B. HAYS  
COMMISSIONER OF PUBLIC LANDS

BY:  
Eddie Lopez, Supervisor  
Unit Division

GHE/TA/EL/s  
encl. 1.

cc: USGS-Roswell, New Mexico  
OCC- Santa Fe, New Mexico

68 JAN 26 AM 8:25

# El Paso Natural Gas Company

El Paso, Texas 79999

January 10, 1968

Mr. John A. Anderson  
Regional Oil and Gas Supervisor  
United States Geological Survey  
Drawer 1857  
Roswell, New Mexico 88201

Commissioner of Public Lands  
State of New Mexico  
P. O. Box 1148  
Santa Fe, New Mexico 87501

Oil Conservation Commission  
State of New Mexico  
P. O. Box 2088  
Santa Fe, New Mexico 87501

Re: Cox Canyon Unit, I Sec. No. 946  
San Juan County, New Mexico  
1968 DRILLING PROGRAM

Gentlemen:

Pursuant to Section 10 of the Cox Canyon Unit Agreement, El Paso Natural Gas Company, as Unit Operator, is submitting this Drilling Program which provides that no wells be drilled during the period from January 1, 1968 to December 31, 1968.

As of this date, eight (8) commercial Mesaverde wells have been drilled in the Unit Area and in addition to these, the Unit has a 25% interest in the Riddle #1 and Fields #5 Wells which were drilled outside the Unit in the Mesaverde Formation. Each of the non-unit wells has an 80-acre tract from the Unit Area communitized with it. All of the acreage in the Unit is presently included in the Mesaverde Participating Area.

All of the working interest owners have been contacted and this Drilling Program reflects their desires for additional drilling and El Paso Natural Gas Company, as Unit Operator, and the working interest owners believe that all current unit obligations have been satisfied in view of the complete development of the Mesaverde Formation within the Cox Canyon Unit Area.

El Paso Natural Gas Company, as Unit Operator, plans to drill any offset wells required to prevent drainage of unitized substances and other wells deemed necessary or desirable by the Unit Operator and other working interest owners.

If this Drilling Program is acceptable, please signify your approval as required under Section 10 of the Unit Agreement, in the space provided on the attached sheet and return an approved copy to El Paso Natural Gas Company.

Copies of this Drilling Program are being sent to the working interest owners as shown below.

Very truly yours,



T. W. Bittick  
Manager  
Land Department

TWB:JS:cjt

Attachment

cc: Colorado Oil and Gas Corporation  
Denver Club Building  
P. O. Box 749  
Denver, Colorado 80201

Sinclair Oil and Gas Company (2)  
Attention: Mr. S. K. Van Steenbergh  
Attention: Mr. W. A. Walther, Jr.  
501 Lincoln Tower Building  
1860 Lincoln Street  
Denver, Colorado 80203

Tenneco Oil Company  
Attention: Mr. R. E. Siverson  
P. O. Box 1714  
Durango, Colorado 81302

Tenneco Oil Company  
Attention: Mr. Weaver W. Ralls, Supervisor  
Division Records & Rentals  
900 Wilco Building  
Midland, Texas 79701

Continental Oil Company  
Attention: Mr. W. C. Blackburn  
P. O. Box 680  
Casper, Wyoming 82601

Cox Canyon 3.0

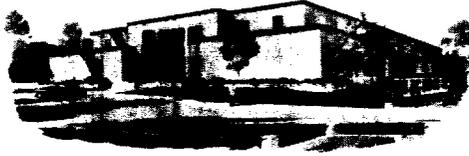
APPROVED: \_\_\_\_\_ DATE: \_\_\_\_\_  
Supervisor, United States Geological Survey  
Subject to like approval by the Commissioner  
of Public Lands and the Oil Conservation  
Commission

APPROVED: \_\_\_\_\_ DATE: \_\_\_\_\_  
Commissioner of Public Lands  
Subject to like approval by the United  
States Geological Survey and the Oil  
Conservation Commission

APPROVED: A. L. Carter DATE: 1-26-68  
Oil Conservation Commission  
Subject to like approval by the United  
States Geological Survey and the  
Commissioner of Public Lands

The foregoing approvals are for the 1968 Drilling Program for the Cox Canyon  
Unit, I Sec. No. 946, San Juan County, New Mexico.

State of New Mexico



Commissioner of Public Lands



January 24, 1968

GUYTON B. HAYS  
COMMISSIONER

P. O. BOX 1148  
SANTA FE, NEW MEXICO

El Paso Natural Gas Company  
P. O. Box 1492  
El Paso, Texas

Re: Cox Canyon Unit  
Revised Exhibit "B"  
Effective December 15, 1967

ATTENTION: Mr. Charles Higgins

Gentlemen:

This will acknowledge your letter of January 18, 1968, whereby, you submitted Revised Exhibit "B" effective December 15, 1967, for the Cox Canyon Unit, San Juan County, New Mexico.

This exhibit has been accepted for filing by the Commissioner of Public Lands as of this date.

Very truly yours,

GUYTON B. HAYS  
COMMISSIONER OF PUBLIC LANDS

BY:  
Eddie Lopez, Supervisor  
Unit Division

GEM/TR/KL/s

cc: USGS-Roswell, New Mexico  
GCC- Santa Fe, New Mexico

MAILED  
68 JAN 26 AM 8 20

# El Paso Natural Gas Company

El Paso, Texas 79999

January 18, 1968

Mr. John A. Anderson  
Regional Oil and Gas Supervisor  
United States Geological Survey  
Drawer 1857  
Roswell, New Mexico 88201

Commissioner of Public Lands  
State of New Mexico  
P. O. Box 1148  
Santa Fe, New Mexico 87501

Oil Conservation Commission  
State of New Mexico  
P. O. Box 2088  
Santa Fe, New Mexico 87501

Re: Cox Canyon Unit  
Revised Exhibit "B"  
Effective December 15, 1967

Gentlemen:

Enclosed are copies of the Cox Canyon Unit Exhibit "B" which has been revised effective December 15, 1967.

This Exhibit "B" was mailed to the working interest owners of the Cox Canyon Unit under date of December 15, 1967, and they were advised that if they should have any corrections or changes to notify El Paso within thirty (30) days. The changes that have been requested have been made, and this Exhibit "B" is now presumed to reflect the correct interests of each working interest owner.

Copies of this letter and the corrected Exhibit "B" are being sent to the working interest owners of the Cox Canyon Unit.

Yours very truly,



Charles Higgins  
Supervising Landman  
Land Department

CH:JS:psr  
Cox Canyon, 5.0

Enclosure

RECEIVED

1968 JAN 19 AM 8 44

EXHIBIT "B"  
 SCHEDULE SHOWING THE PERCENTAGE AND KIND OF OWNERSHIP OF OIL AND GAS INTEREST  
 IN ALL LANDS IN THE COX CANYON UNIT AREA

Tract No.	Description	No. of Acres	Serial No. and Lease Date	Land Owner Percentage of Royalty	Lessee of Record	Overriding Royalty Percentage	Working Interest Owner Under Option Agreement, Operating Agreement or Assignment and Percentage of Interest
<u>STATE LANDS</u>							
1	T-32-N, R-11-W Sec. 16: NE/4 SE/4	40.00	E-3087-3 11-16-49	12.5%-State of New Mexico	E1 Paso Natural Gas Co.	(1) 17%	*GAS RIGHTS TO BASE OF MESA-VERDE FORMATION E1 Paso Natural Gas Co. 100% Before Payout E1 Paso Natural Gas Co. 75% After Payout Colorado Oil & Gas Corp. 25% After Payout GAS RIGHTS BELOW BASE OF MESA-VERDE FORMATION BEFORE PAYOUT E1 Paso Natural Gas Co. 50% Sinclair Oil & Gas Co. 50% GAS RIGHTS BELOW BASE OF MESA-VERDE FORMATION AFTER PAYOUT E1 Paso Natural Gas Co. 25% Sinclair Oil & Gas Co. 50% Colorado Oil & Gas Co. 25% OIL AND CASINGHEAD GAS TO ALL DEPTHS Sinclair Oil & Gas Co. 50% Colorado Oil & Gas Corp. 50%
2	Sec. 16: NE/4 NW/4	40.00	E-3089-4 11-16-49	12.5%-State of New Mexico	E1 Paso Natural Gas Co.	(1) 17%	See Tract No. 1 for Ownership
3	Sec. 16: NW/4 NW/4, SE/4 NW/4, SW/4 NE/4, W/2 SE/4 & SE/4 SW/4	240.00	E-3091-3 11-16-49	12.5%-State of New Mexico	E1 Paso Natural Gas Co.	(1) 12% to 14.5%	See Tract No. 1 for Ownership

Tract No.	Description	No. of Acres	Serial No. and Lease Date	Land Owner Percentage of Royalty	Lessee of Record	Overriding Royalty Percentage	Working Interest Owner Under Option Agreement, Operating Agreement or Assignment and Percentage of Interest
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STATE LANDS (continued)

4	<u>T-32-N, R-11-W</u> Sec. 16: NE/4 SW/4 & SE/4 SE/4	80.00	E-3092-4 11-16-49	12.5%-State of New Mexico	E1 Paso Natural Gas Co.	(1) 17%	See Tract No. 1 for Ownership
5	Sec. 16: NW/4 SW/4 & SE/4 NE/4	80.00	E-3093-3 11-16-49	12.5%-State of New Mexico	E1 Paso Natural Gas Co.	(1) 17%	See Tract No. 1 for Ownership
6	Sec. 16: NE/4 NE/4	40.00	E-3094-4 11-16-49	12.5%-State of New Mexico	E1 Paso Natural Gas Co.	(1) 14.5%	See Tract No. 1 for Ownership
7	Sec. 16: SW/4 NW/4	40.00	E-3095-4 11-16-49	12.5%-State of New Mexico	E1 Paso Natural Gas Co.	(1) 17%	See Tract No. 1 for Ownership
8	Sec. 16: NW/4 NE/4	40.00	E-5387-1 7-10-51	12.5%-State of New Mexico	E1 Paso Natural Gas Co.	(1) 5% to base MV 6.25% below MV	OIL AND GAS TO ALL DEPTHS E1 Paso Natural Gas Co. 100%
9	Sec. 16: SW/4 SW/4	40.00	E-5388-2 7-10-51	12.5%-State of New Mexico	E1 Paso Natural Gas Co.	None	OIL AND GAS TO ALL DEPTHS E1 Paso Natural Gas Co. 100%

TOTAL STATE LANDS - 640.00 ACRES

FEDERAL LANDS

10	<u>T-32-N, R-11-W</u> Sec. 8: Lots 1 & 2 & S/2 SE/4 Sec. 9: Lots 1, 2, 3, 4 & S/2 S/2 Sec. 20: NE/4 & E/2 SE/4 Sec. 21: A11	1384.60	NM-03189 2-1-43	USA - 12.5%	E1 Paso Natural Gas Co.	(1) 15%	See Tract No. 1 for Ownership
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Tract No.	Description	No. of Acres	Serial No. and Lease Date	Land Owner Percentage of Royalty	Lessee of Record	Overriding Royalty Percentage	Working Interest Owner Under Option Agreement, Operating Agreement or Assignment and Percentage of Interest
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FEDERAL LANDS (continued)

11	T-32-N, R-11-W Sec. 17: E/2 & E/2 W/2	480.00	NM-03190 9-1-48	USA - 12.5%	EI Paso Natural Gas Co.	(1) 15%	See Tract No. 1 for Ownership
12	Sec. 28: N/2 NW/4	80.00	SF-078231 2-1-48	USA - 12.5%	Tenneco Oil Co.-1/2 Continental Oil Co.-1/2	(1) 17.5% on gas; 20.0% on oil; plus 1% on oil and gas that reduces to 1/2 of 1% after \$25.00 P/A paid	*GAS RIGHTS TO BASE OF MESA- VERDE FORMATION EI Paso Natural Gas Co. 100% GAS RIGHTS BELOW BASE OF MESA- VERDE FORMATION AND ALL OIL TO ALL DEPTHS Tenneco Oil Co. 50% Continental Oil Co. 50%

TOTAL FEDERAL LANDS - 1,944.60 ACRES

(1) Unit Operator will furnish breakdown of Overriding Royalty Ownership upon request.

\* EI Paso Natural Gas Company's working interest in Tracts 1,2,3,4,5,6,7,10, and 11 is subject to a sliding scale ORRI as to gas produced in favor of Sinclair Oil & Gas Co. until payout.

\*\* EI Paso Natural Gas Company's working interest in Tract 12 is subject to a sliding scale ORRI as to gas produced in favor of Tenneco Oil Co. and Continental Oil Co.

EXHIBIT "B"  
 SCHEDULE SHOWING THE PERCENTAGE AND KIND OF OWNERSHIP OF OIL AND GAS INTEREST  
 IN ALL LANDS IN THE COX CANYON UNIT AREA

<u>RECAPITULATION</u>		<u>NUMBER OF ACRES</u>	<u>PERCENTAGE OF UNIT AREA</u>
<u>STATE LANDS</u>			
(Tracts 1 to 9, inclusive)		640.00	24.76205
<u>FEDERAL LANDS</u>			
(Tracts 10 to 12, inclusive)		1,944.60	75.23795
		<hr/>	<hr/>
TOTALS	-	2,584.00	100.00000

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El Paso Natural Gas Company

El Paso, Texas 79999

May 4, 1967

MAIL OFFICE 0100  
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MAY 1967

361

Mr. John A. Anderson  
Regional Oil and Gas Supervisor  
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 Commission  
State of New Mexico  
Post Office Box 2088  
Santa Fe, New Mexico 87501

Re: 1967 DRILLING PROGRAMS  
Rio Arriba and San Juan Counties  
New Mexico

Gentlemen:

The 1967 Drilling Programs for the following Units were approved by the regulatory bodies on the dates indicated:

1. Cox Canyon Unit, I Sec. No. 946: ✓  
Commissioner of Public Lands - January 20, 1967  
Oil Conservation Commission - January 24, 1967  
United States Geological Survey - February 20, 1967
2. Huerfanito Unit, I Sec. No. 943:  
United States Geological Survey - January 24, 1967  
Commissioner of Public Lands - February 3, 1967  
Oil Conservation Commission - April 26, 1967
3. Lindrith Unit, I Sec. No. 713:  
United States Geological Survey - March 30, 1967  
Commissioner of Public Lands - March 2, 1967  
Oil Conservation Commission - April 11, 1967
4. San Juan 27-4 Unit, #14-08-001-1054:  
United States Geological Survey - February 20, 1967  
Commissioner of Public Lands - January 18, 1967  
Oil Conservation Commission - January 26, 1967

Mr. John A. Anderson,  
Commissioner of Public Lands and  
Oil Conservation Commission

-2-

May 4, 1967

5. San Juan 28-4 Unit, #14-08-001-933:  
United States Geological Survey - February 14, 1967  
Commissioner of Public Lands - January 18, 1967  
Oil Conservation Commission - April 26, 1967
6. San Juan 29-4 Unit, #14-08-001-1055:  
United States Geological Survey - February 9, 1967  
Commissioner of Public Lands - March 2, 1967  
Oil Conservation Commission - March 28, 1967
7. San Juan 29-5 Unit, #14-08-001-437:  
United States Geological Survey - February 20, 1967  
Commissioner of Public Lands - February 23, 1967  
Oil Conservation Commission - April 11, 1967

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

Yours very truly,



Harry Severtz  
Supervising Landman  
Land Department

HG:JS:cjt

Cox Canyon Unit, Huerfanito Unit,  
Lindrith Unit, San Juan 27-4 Unit,  
San Juan 28-4 Unit, San Juan 29-4  
Unit, San Juan 29-5 Unit - 3.0



IN REPLY REFER TO:

361

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY  
Drawer 1857  
Roswell, New Mexico 88201

February 20, 1967

El Paso Natural Gas Company  
P. O. Box 1492  
El Paso, Texas 79999

Attention: Mr. T. W. Bittick

Gentlemen:

Your 1967 plan of development dated January 3, 1967, for the Cox Canyon unit area, San Juan County, New Mexico, proposing the drilling of no additional wells, has been approved on this date subject to like approval by the appropriate State officials.

Two approved copies of the plan are enclosed.

Sincerely yours,

(ORIG. SGD.) JOHN A. ANDERSON

JOHN A. ANDERSON  
Regional Oil and Gas Supervisor

cc:  
Washington (w/cy plan)  
Farmington (w/cy plan)  
NMOCC - Santa Fe (ltr. only) ✓  
Com. of Pub. Lands, Santa Fe (ltr. only)

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO

261

January 24, 1967

El Paso Natural Gas Company  
P. O. Box 1492  
El Paso, Texas 79999

Attention: Mr. T. W. Bittick

Re: 1967 Drilling Program  
Cox Canyon Unit, San Juan  
County, New Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the 1967 Drilling Program dated January 3, 1967, for the Cox Canyon Unit, San Juan County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

One approved copy of the program is returned herewith.

Very truly yours,

A. L. PORTER, Jr.  
Secretary-Director

ALP/JEK/og

cc: Commissioner of Public Lands  
Santa Fe, New Mexico

United States Geological Survey  
Drawer 1857  
Roswell, New Mexico 88201

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107 000 23 17  
January 20, 1967

El Paso Natural Gas Company  
P. O. Box 1492  
El Paso, Texas 79999

Re: Cox Canyon Unit  
San Juan County, New Mexico

Attention: Mr. T. W. Bittick

Gentlemen:

The Commissioner of Public Lands approves the 1967 Plan of Development for the Cox Canyon Unit, San Juan County, New Mexico. This approval is subject to like approval by the United States Geological Survey and the Oil Conservation Commission.

This Plan of Development covers no drilling during the period from January 1, 1967, to December 31, 1967, due to the fact that the Operator and working interest owners believe that current Unit obligations are being satisfied.

We are returning one approved copy to you.

Very truly yours,

GUYTON B. HAYS  
COMMISSIONER OF PUBLIC LANDS

BY:  
Ted Bilberry, Director  
Oil and Gas Department

GBH/MMR/v  
encl. 1

cc: United States Geological Survey  
Roswell, New Mexico

Oil Conservation Commission  
Santa Fe, New Mexico

# El Paso Natural Gas Company

El Paso, Texas 79999

January 3, 1967

Mr. John A. Anderson  
Regional Oil and Gas Supervisor  
United States Geological Survey  
Drawer 1857  
Roswell, New Mexico

Commissioner of Public Lands  
State of New Mexico  
P. O. Box 1148  
Santa Fe, New Mexico 87501

Oil Conservation Commission  
State of New Mexico  
P. O. Box 2088  
Santa Fe, New Mexico 87501

Re: Cox Canyon Unit, I Sec. No. 946  
San Juan County, New Mexico  
1967 DRILLING PROGRAM

Gentlemen:

Pursuant to Section 10 of the Cox Canyon Unit Agreement, El Paso Natural Gas Company, as Unit Operator, is submitting this Drilling Program which provides that no wells be drilled during the period from January 1, 1967, to December 31, 1967.

As of this date, eight (8) commercial Mesaverde wells have been drilled in the Unit Area and in addition to these, the Unit has a 25% interest in the Riddle #1 and Fields #5 Wells which were drilled outside the Unit in the Mesaverde Formation. Each of the non-unit wells has an 80-acre tract from the unit area communitized with it. All of the acreage in the Unit is presently included in the Mesaverde Participating Area.

All of the working interest owners have been contacted and this Drilling Program reflects their desires for additional drilling and El Paso Natural Gas Company, as Unit Operator, and the working interest owners believe that all current unit obligations have been satisfied in view of the complete development of the Mesaverde Formation within the Cox Canyon Unit Area.

El Paso Natural Gas Company, as Unit Operator, plans to drill any offset wells required to prevent drainage of unitized substances and other wells deemed necessary or desirable by the Unit Operator and other working interest owners.

If this Drilling Program is acceptable, please signify your approval as required under Section 10 of the Unit Agreement, in the space provided on the attached sheet and return an approved copy to El Paso Natural Gas Company.

Copies of this Drilling Program are being sent to the working interest owners as shown below.

Very truly yours,

EL PASO NATURAL GAS COMPANY

By   
T. W. Bittick, Manager  
Land Department

TWB:JS:ep

Cox Canyon 3.0

cc: Colorado Oil and Gas Corporation  
Denver Club Building  
Denver, Colorado

Sinclair Oil and Gas Company  
501 Lincoln Tower Building  
Denver, Colorado

APPROVED: \_\_\_\_\_

Supervisor, United States Geological Survey  
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 United  
States Geological Survey and the Oil  
Conservation Commission

DATE: \_\_\_\_\_

APPROVED: \_\_\_\_\_

*A. L. Carter - J.*  
Oil Conservation Commission  
Subject to like approval by the United  
States Geological Survey and the  
Commissioner of Public Lands

DATE: *Jan 24 1967*

The foregoing approvals are for the 1967 Drilling Program for the Cox Canyon Unit, I Sec. No. 946, San Juan County, New Mexico.

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO

361

November 7, 1966

C  
O  
P  
Y  
  
El Paso Natural Gas Company  
P. O. Box 1492  
El Paso, Texas 79999

Attention: Mr. T. W. Bittick

Re: 1966 Drilling Program  
Cox Canyon Unit, San  
Juan County, New Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the 1966 Drilling Program dated September 15, 1966 for the Cox Canyon Unit, San Juan County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

One approved copy of the program is returned herewith.

Very truly yours,

A. L. POSTER, Jr.  
Secretary-Director

ALP/JEK/og

cc: Commissioner of Public Lands - Santa Fe  
United States Geological Survey - Roswell



IN REPLY REFER TO:

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Drawer 1857  
Roswell, New Mexico 88201

October 12, 1966

El Paso Natural Gas Company  
P. O. Box 1492  
El Paso, Texas 79999

Attention: Mr. T. W. Bittick

Gentlemen:

Your 1966 plan of development dated September 15, 1966, for the Cox Canyon unit area, San Juan County, New Mexico, proposing the drilling of no additional wells, has been approved on this date subject to like approval by the appropriate State officials.

Two approved copies of the plan are enclosed.

Sincerely yours,

(ORIG. S.S.) JOHN A. ANDERSON

JOHN A. ANDERSON  
Regional Oil and Gas Supervisor

cc:  
Washington (w/cy plan)  
Farmington (w/cy plan)  
EMOCC, Santa Fe (ltr. only) ✓  
Com. of Pub. Lands, Santa Fe (ltr. only)

1966 OCT 7 PM 1 17

October 6, 1966

El Paso Natural Gas Company  
Post Office Box 1492  
El Paso, Texas 79999

Re: Cox Canyon Unit  
San Juan County, New Mexico

ATTENTION: Mr. T. W. Bittick

Gentlemen:

The Commissioner of Public Lands approves the 1966 Plan of Development for the Cox Canyon Unit, San Juan County, New Mexico.

This unit has been fully developed in so far as the Mesaverde Formation is concerned and Unit Operator does not contemplate any further drilling within the unit area during the Calendar year 1966.

Very truly yours,

GUYTON B. HAYS  
COMMISSIONER OF PUBLIC LANDS  
BY:

Ted Bilberry, Director  
Oil and Gas Department

GBH/MBR/s

cc: Oil Conservation  
Commission  
Santa Fe, New Mexico

United States Geological Survey  
Roswell, New Mexico

El Paso Natural Gas Company

El Paso, Texas 79999

September 15, 1966

RECEIVED  
28  
SEP  
1966

Mr. John A. Anderson  
Regional Oil and Gas Supervisor  
United States Geological Survey  
Drawer 1857  
Roswell, New Mexico

Commissioner of Public Lands  
State of New Mexico  
P. O. Box 1148  
Santa Fe, New Mexico 87501

Oil Conservation Commission  
State of New Mexico  
P. O. Box 2088  
Santa Fe, New Mexico 87501

Re: Cox Canyon Unit, I Sec. No. 946  
San Juan County, New Mexico  
1966 DRILLING PROGRAM

Gentlemen:

Pursuant to Section 10 of the Cox Canyon Unit Agreement, El Paso Natural Gas Company, as Unit Operator, is submitting this Drilling Program which provides that no wells be drilled during the period from January 1, 1966, to December 31, 1966.

As of this date, eight (8) commercial Mesaverde wells have been drilled in the Unit Area and in addition to these, the Unit has a 25% interest in the Riddle #1 and Fields #5 Wells which were drilled outside the Unit in the Mesaverde Formation. Each of the non-unit wells has an 80-acre tract from the unit area communitized with it. All of the acreage in the Unit is presently included in the Mesaverde Participating Area.

All of the working interest owners have been contacted and this Drilling Program reflects their desires for additional drilling and El Paso Natural Gas Company, as Unit Operator, and the working interest owners believe that all current unit obligations have been satisfied in view of the complete development of the Mesaverde Formation within the Cox Canyon Unit Area.

El Paso Natural Gas Company, as Unit Operator, plans to drill any offset wells required to prevent drainage of unitized substances and other wells deemed necessary or desirable by the Unit Operator and other working interest owners.

If this Drilling Program is acceptable, please signify your approval as required under Section 10 of the Unit Agreement, in the space provided on the attached sheet and return an approved copy to El Paso Natural Gas Company.

Copies of this Drilling Program are being sent to the working interest owners as shown below.

Very truly yours,

EL PASO NATURAL GAS COMPANY

By   
T. W. Bittick, Manager  
Land Department

TWB:CH:sb

Cox Canyon 3.0

cc: Colorado Oil & Gas Corporation  
Denver Club Building  
Denver, Colorado

Sinclair Oil & Gas Company  
501 Lincoln Tower Building  
Denver, Colorado

APPROVED: \_\_\_\_\_  
Supervisor, United States Geological Survey  
Subject to like approval by the Commissioner  
of Public Lands and the Oil Conservation  
Commission

DATE: \_\_\_\_\_

APPROVED: \_\_\_\_\_  
Commisioner of Public Lands  
Subject to like approval by the United  
States Geological Survey and the Oil  
Conservation Commission

DATE: \_\_\_\_\_

APPROVED: *A. L. Porter*  
Oil Conservation Commission  
Subject to like approval by the United  
States Geological Survey and the  
Commissioner of Public Lands

DATE: Nov 7, 1966

The foregoing approvals are for the 1966 Drilling Program for the Cox Canyon  
Unit, I Sec. No. 946, San Juan County, New Mexico.

# El Paso Natural Gas Company

El Paso, Texas

May 26, 1964

Mr. John A. Anderson  
Regional Oil and Gas Supervisor  
United States Geological Survey  
Drawer 1857  
Roswell, New Mexico

Commissioner of Public Lands  
State of New Mexico  
P. O. Box 1148  
Santa Fe, New Mexico

Oil Conservation Commission  
State of New Mexico  
P. O. Box 2088  
Santa Fe, New Mexico

Re: Cox Canyon Unit, I. Sec. No. 946  
San Juan County, New Mexico  
1964 DRILLING PROGRAM

Gentlemen:

The 1964 Drilling Program for the Cox Canyon Unit was approved by the Regulatory Bodies on the following dates:

1. United States Geological Survey - April 21, 1964
2. Commissioner of Public Lands,  
State of New Mexico - March 30, 1964
3. Oil Conservation Commission,  
State of New Mexico - April 7, 1964

Copies of this letter are being sent to the working interest owners of the Cox Canyon Unit.

Very truly yours,



Harry Gevertz  
Regional Landman  
Land Department

HG:KM:js  
Cox Canyon 3.0



IN REPLY REFER TO:

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

1964 APR 23 10 00 AM  
Drawer 1857  
Roswell, New Mexico 88201

361

April 21, 1964

El Paso Natural Gas Company  
P. O. Box 1492  
El Paso, Texas

Attention: Mr. Sam Smith

Gentlemen:

Your 1964 plan of development dated March 5, 1964, for the Cox Canyon unit area, San Juan County, New Mexico, proposing the drilling of no additional wells, has been approved on this date subject to like approval by the appropriate State officials.

Two approved copies of the plan are enclosed.

Sincerely yours,

JOHN A. ANDERSON  
Regional Oil and Gas Supervisor

cc:  
Washington (w/cy of plan)  
Farmington (w/cy of plan)  
NMOCC, Santa Fe (ltr. only) ✓  
Com. of Pub. Lands, Santa Fe (ltr. only)

**OIL CONSERVATION COMMISSION**

P. O. BOX 871

SANTA FE, NEW MEXICO

April 7, 1964

**El Paso Natural Gas Company  
P. O. Box 1492  
El Paso, Texas**

**Attention: Mr. Sam Smith**

**Re: 1964 Drilling Program,  
Cox Canyon Unit, San  
Juan County, New Mexico**

**Gentlemen:**

**This is to advise that the New Mexico Oil  
Conservation Commission has this date approved the 1964  
Drilling Program for the Cox Canyon Unit, San Juan County,  
New Mexico, subject to like approval by the United States  
Geological Survey and the Commissioner of Public Lands of  
the State of New Mexico.**

**One approved copy of the program is returned  
herewith.**

**Very truly yours,**

**A. L. PORTER, Jr.,  
Secretary-Director**

**ALP/JEK/og**

**cc: Commissioner of Public Lands - Santa Fe  
United States Geological Survey - Roswell**

C  
O  
P  
Y

MAIN OFFICE OCC

1964 MAR 31 PM 1:25

March 31, 1964

El Paso Natural Gas Company  
P. O. Box 1492  
El Paso, Texas

Re: Cox Canyon Unit  
San Juan County, New Mexico  
1964 Drilling Program

Attention: Mr. Sam Smith

Gentlemen:

The Commissioner of Public Lands approved as of March 30, 1964, the 1964 Drilling Program for the Cox Canyon Unit Area, San Juan County, New Mexico, subject to like approval by the United States Geological Survey and the Oil Conservation Commission.

We are returning one approved copy of this Plan.

Very truly yours,

E. S. JOHNNY WALKER  
COMMISSIONER OF PUBLIC LANDS

BY:  
(Mrs.) Marian M. Rhea, Supervisor  
Unit Division

ESW/mar/v

CC:

Oil Conservation Commission

United States Geological Survey  
Roswell, New Mexico

# El Paso Natural Gas Company

El Paso, Texas MAR 10 PM 1 1964

March 5, 1964

Mr. John A. Anderson  
Regional Oil and Gas Supervisor  
United States Geological Survey  
Drawer 1857  
Roswell, New Mexico

Commissioner of Public Lands  
State of New Mexico  
P. O. Box 791  
Santa Fe, New Mexico

Oil Conservation Commission  
State of New Mexico  
P. O. Box 2088  
Santa Fe, New Mexico 87501

Re: Cox Canyon Unit, I Sec. No. 946  
San Juan County, New Mexico  
1964 DRILLING PROGRAM

Gentlemen:

By letter dated February 7, 1963, El Paso Natural Gas Company, as Unit Operator, filed a Drilling Program regarding the captioned Unit for the calendar year 1963. Said Drilling Program provided for the drilling of no wells.

As of this date, eight (8) commercial Mesaverde wells have been drilled in the Unit Area and in addition to these, the Unit has 25% interest in the Riddle #1 and Fields #5 Wells which were drilled outside the Unit in the Mesaverde Formation. Each of the non-unit wells has an 80 acre tract from the unit area communitized with it.

Pursuant to Section 10 of the Cox Canyon Unit Agreement, El Paso Natural Gas Company, as Unit Operator, is submitting this Drilling Program which provides that no wells be drilled during the period from January 1, 1964 to December 31, 1964.

All of the working interest owners have been contacted and this Drilling Program reflects, insofar as possible, their desires for additional drilling and El Paso Natural Gas Company, as Unit Operator, and the working interest owners believe that all current unit obligations have been satisfied in view of the complete development of the Mesaverde Formation within the Cox Canyon Unit Area.

El Paso Natural Gas Company, as Unit Operator, plans to drill any offset wells required to prevent drainage of unitized substances and other wells deemed necessary or desirable by the Unit Operator and working interest owners in the affected drilling blocks.

If this Drilling Program is acceptable, please signify your approval as required under Section 10 of the Unit Agreement, in the space provided on the attached sheet and return an approved copy to El Paso Natural Gas Company.

Copies of this Drilling Program are being sent to the working interest owners as shown below.

Very truly yours,

EL PASO NATURAL GAS COMPANY

By

  
Sam Smith, Manager  
Land Department

SS:KM:js

cc: Colorado Oil & Gas Corporation  
Denver Club Building  
Denver, Colorado

Sinclair Oil & Gas Company  
P. O. Box 4005  
Albuquerque, New Mexico

APPROVED: \_\_\_\_\_  
Supervisor, United States Geological Survey  
Subject to like approval by the appropriate  
State Officials.

DATE: \_\_\_\_\_

APPROVED: \_\_\_\_\_  
Commissioner of Public Lands  
Subject to like approval by the United  
States Geological Survey and the  
Oil Conservation Commission.

DATE: \_\_\_\_\_

APPROVED:           *A. L. Patten, Jr.*            
Oil Conservation Commission  
Subject to like approval by the United  
States Geological Survey and the  
Commissioner of Public Lands.

DATE:           4-7-64          

The foregoing approvals are for the 1964 Drilling Program for the Cox Canyon  
Unit, I Sec. No. 946, San Juan County, New Mexico.

El Paso Natural Gas Company

361

1963 APR 3 PM 1 25

El Paso, Texas

April 3, 1963

Mr. John A. Anderson  
Regional Oil and Gas Supervisor  
United States Geological Survey  
Post Office Drawer 1857  
Roswell, New Mexico

Commissioner of Public Lands  
State of New Mexico  
Post Office Box 791  
Santa Fe, New Mexico

Oil Conservation Commission  
State of New Mexico  
Post Office Box 871  
Santa Fe, New Mexico

Re: Cox Canyon Unit  
1963 DRILLING PROGRAM  
San Juan County, New Mexico

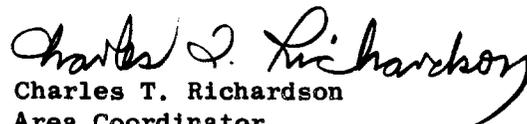
Gentlemen:

The 1963 Drilling Program for the Cox Canyon Unit was approved by the regulatory bodies on the following dates:

1. United States Geological Survey - March 25, 1963
2. Commissioner of Public Lands - February 14, 1963
3. Oil Conservation Commissioner - March 27, 1963

Copies of this letter are being sent to all the working interest owners of the Cox Canyon Unit.

Very truly yours,

  
Charles T. Richardson  
Area Coordinator  
Land Department

CTR:JBB:ag

**OIL CONSERVATION COMMISSION**

P. O. BOX 871

SANTA FE, NEW MEXICO

361

March 27, 1963

El Paso Natural Gas Company  
P. O. Box 1492  
El Paso, Texas

Attention: Mr. Sam Smith

Re: 1963 Drilling Program  
Cox Canyon Unit, San  
Juan County, New Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the 1963 Drilling Program for the Cox Canyon Unit, San Juan County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

One approved copy of the program is returned herewith.

Very truly yours,

A. L. PORTER, Jr.,  
Secretary-Director

ALP/JEK/ig

cc: Commissioner of Public Lands  
Santa Fe, New Mexico  
United States Geological Survey  
Roswell, New Mexico

MAIL OFFICE 000  
1963 FEB 15 PM 4:33

February 14, 1963

El Paso Natural Gas Company  
P. O. Box 1492  
El Paso, Texas

Re: Cox Canyon Unit,  
San Juan County,  
New Mexico. 1963  
Drilling Program

Attention: Mr. Sam Smith

Gentlemen:

The Commissioner of Public Lands has approved as of this date the 1963 Drilling Program for Cox Canyon Unit Area, San Juan County, New Mexico, subject to like approval by the United States Geological Survey.

We are returning one approved copy.

Very truly yours,

E. S. Johnny Walker  
COMMISSIONER OF PUBLIC LANDS

BY:  
(Mrs.) Marian M. Shea,  
Supervisor, Unit Division

ESW/mar/e

encl: United States Geological Survey  
cc: Roswell, New Mexico

Oil Conservation Commission  
Santa Fe, New Mexico

Drawer 1857  
Roswell, New Mexico

March 25, 1963

El Paso Natural Gas Company  
P. O. Box 1492  
El Paso, Texas

Attention: Mr. Sam Smith

Gentlemen:

Your 1963 plan of development dated February 7, 1963, for the Cox Canyon unit area, San Juan County, New Mexico, proposing the drilling of no additional wells, has been approved on this date subject to like approval by the appropriate State officials.

Two approved copies of the plan are enclosed.

Very truly yours,

JOHN A. ANDERSON  
Regional Oil and Gas Supervisor

Copy to: Washington (w/cy of plan)  
Farmington (w/cy of Plan)  
NMOCC - Santa Fe (ltr. only)  
Com. of Pub. Lands - Santa Fe (ltr. only)

# El Paso Natural Gas Company

El Paso, Texas

February 7, 1963

RECEIVED  
1963 FEB 14 AM 8 35

Mr. John A. Anderson  
Regional Oil and Gas Supervisor  
United States Geological Survey  
Drawer 1857  
Roswell, New Mexico

Commissioner of Public Lands  
State of New Mexico  
P. O. Box 791  
Santa Fe, New Mexico

Oil Conservation Commission  
State of New Mexico  
P. O. Box 871  
Santa Fe, New Mexico

Re: Cox Canyon Unit, I Sec. No. 946  
San Juan County, New Mexico  
1963 DRILLING PROGRAM

Gentlemen:

By letter dated March 9, 1962, El Paso Natural Gas Company, as Unit Operator, filed a Drilling Program regarding the captioned unit for the calendar year 1962. Said Drilling Program provided for the drilling of no wells.

As of this date, eight (8) commercial Mesaverde wells have been drilled in the Unit Area and in addition to these, the Unit has 25% interest in the Riddle #1 and Fields #5 Wells which were drilled outside the unit in the Mesaverde Formation. Each of the non-unit wells has an 80 acre tract from the unit area communitized with it.

Pursuant to Section 10 of the Cox Canyon Unit Agreement, El Paso Natural Gas Company, as Unit Operator, is submitting this Drilling Program which provides that no wells be drilled during the period from January 1, 1963 to December 31, 1963.

All of the working interest owners have been contacted and this Drilling Program reflects, insofar as possible, their desires for additional drilling and El Paso Natural Gas Company, as Unit Operator, and the working interest owners believe that all current unit obligations have been satisfied in view of the complete development of the Mesaverde Formation within the Cox Canyon Unit Area.

El Paso Natural Gas Company, as Unit Operator, plans to drill any offset wells required to prevent drainage of unitized substances and other wells deemed necessary or desirable by the Unit Operator and working interest owners in the affected drilling blocks.

If this Drilling Program is acceptable, please signify your approval as required under Section 10 of the Unit Agreement, in the space provided on the attached sheet and return an approved copy to El Paso Natural Gas Company.

Copies of this Drilling Program are being sent to the working interest owners as shown on the attached sheet.

Very truly yours,

EL PASO NATURAL GAS COMPANY

By   
Sam Smith, Manager  
Land Department

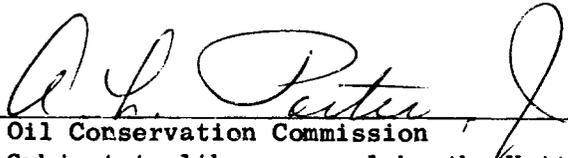
SS:JBB:ag

APPROVED: \_\_\_\_\_  
Supervisor, United States Geological Survey  
Subject to like approval by the appropriate  
State Officials.

DATE: \_\_\_\_\_

APPROVED: \_\_\_\_\_  
Commissioner of Public Lands  
Subject to like approval by the United States  
Geological Survey and the Oil Conservation  
Commission.

DATE: \_\_\_\_\_

APPROVED:  \_\_\_\_\_  
Oil Conservation Commission  
Subject to like approval by the United States  
Geological Survey and the Commissioner of  
Public Lands.

DATE: 3-27-63

The foregoing approvals are for the 1963 Drilling Program for the Cox  
Canyon Unit, I Sec. No. 946, San Juan County, New Mexico.

**COX CANYON UNIT**  
**Working Interest Owners**

**Colorado Oil & Gas Corporation**  
**Denver Club Building**  
**Denver, Colorado**

**Sinclair Oil & Gas Company**  
**Attention: Mr. A. A. Koenig**  
**P. O. Box 4005**  
**Albuquerque, New Mexico**

El Paso Natural Gas Company

El Paso, Texas

May 29, 1962

Mr. John A. Anderson  
Regional Oil and Gas Supervisor  
United States Geological Survey  
Drawer 1857  
Roswell, New Mexico

Commissioner of Public Lands  
State of New Mexico  
P. O. Box 791  
Santa Fe, New Mexico

Oil Conservation Commission  
State of New Mexico  
P. O. Box 871  
Santa Fe, New Mexico

Re: Cox Canyon Unit  
1962 Drilling Program

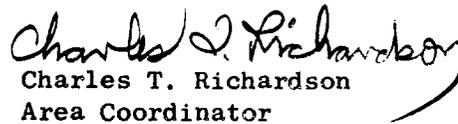
Gentlemen:

The 1962 Drilling Program for the Cox Canyon Unit has been approved by the regulatory bodies on the dates indicated:

1. United States Geological Survey - May 7, 1962
2. Commissioner of Public Lands - April 9, 1962
3. Oil Conservation Commission - May 1, 1962

Copies of this letter are being sent to the working interest owners of the Cox Canyon Unit.

Very truly yours,

  
Charles T. Richardson  
Area Coordinator  
Land Department

CTR: JBB: js

Cox Canyon 3.0



IN REPLY REFER TO:

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY  
Drawer 1857  
Roswell, New Mexico

May 7, 1962

El Paso Natural Gas Company  
P. O. Box 1492  
El Paso, Texas

Attention: Mr. Sam Smith

Gentlemen:

Your 1962 plan of development dated March 9, 1962, for the Cox Canyon unit area, San Juan County, New Mexico, proposing the drilling of no additional wells, has been approved on this date subject to like approval by the appropriate State officials.

Two approved copies of the plan are enclosed.

Very truly yours,

(Orig.Sgd.) CARL C. TRAYWICK

CARL C. TRAYWICK  
Acting Regional Oil & Gas Supervisor

Copy to: Washington (w/cy of plan)  
Farmington (w/cy of plan)  
NMOCC-Santa Fe (ltr only)  
Com. of Pub. Lands-Santa Fe (ltr only)

**C. L. CONSERVATION COMMISSION**

P. O. BOX 871

SANTA FE, NEW MEXICO

3/21

May 1, 1962

C

El Paso Natural Gas Company  
P. O. Box 1492  
El Paso, Texas

Attention: Mr. Sam Smith

O

Re: 1962 Plan of Development  
Cox Canyon Unit, San Juan  
County, New Mexico

Gentlemen:

P

This is to advise that the New Mexico Oil Conservation Commission has this date approved the 1962 Drilling Program for the Cox Canyon Unit, San Juan County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

One approved copy of the plan is returned herewith.

Very truly yours,

A. L. PORTER, Jr.,  
Secretary-Director

Y

ALP/JEK/ig

cc: U. S. Geological Survey  
Roswell, New Mexico

State Land Office  
Santa Fe, New Mexico

April 9, 1962

El Paso Natural Gas Company  
P. O. Box 1492  
El Paso, Texas

Re: Cox Canyon Unit,  
San Juan County,  
New Mexico,  
1962 Drilling Program

Attention: Mr. Sam Smith

Gentlemen:

The Commissioner of Public Lands has approved as of this date the 1962 Drilling Program for Cox Canyon Unit, San Juan County, New Mexico, subject to like approval by the U. S. Geological Survey and the Oil Conservation Commission.

We are returning one approved copy.

Very truly yours,

E. S. JOHNNY WALKER  
COMMISSIONER OF PUBLIC LANDS

BY:  
(Mrs.) Marian M. Rhea, Supervisor  
Unit Division

ESW/mx/v

encl:

cc: Oil Conservation Commission  
Santa Fe, New Mexico

U. S. Geological Survey  
Roswell, New Mexico

C  
O  
P  
Y

El Paso Natural Gas Company

El Paso, Texas 79901  
1962 MAR 15

~~February 19, 1962~~

March 9, 1962

Mr. John A. Anderson  
Regional Oil and Gas Supervisor  
United States Geological Survey  
Drawer 1857  
Roswell, New Mexico

Commissioner of Public Lands  
State of New Mexico  
P.O. Box 791  
Santa Fe, New Mexico

Oil Conservation Commission  
State of New Mexico  
P.O. Box 871  
Santa Fe, New Mexico

Re: Cox Canyon Unit, I Sec. No. 946  
San Juan County, New Mexico  
1962 DRILLING PROGRAM

Gentlemen:

In compliance with Section 10 of the Cox Canyon Unit Agreement, El Paso Natural Gas Company, as Unit Operator, submits a Drilling Program for the calendar year 1962 which provides for the drilling of no wells.

No wells are proposed in view of the complete development of the Mesaverde Formation within the Cox Canyon Unit Area.

Eight (8) commercial Mesaverde wells have been drilled in the Unit Area and in addition to these, the Unit has a 25% interest in the Riddle #1 and Fields #5 Wells which were drilled outside of the Unit to the Mesaverde. Each of the non-unit wells has an 80 acre tract from the unit area communitized with it.

By letter dated December 29, 1961, El Paso Natural Gas Company submitted a proposed Drilling Program to the working interest owners providing for the drilling of no wells during the calendar year 1962. A majority of the working interest owners have consented to this plan.

El Paso Natural Gas Company, as Unit Operator, plans to drill any offset wells required to prevent drainage of unitized substances and any other wells deemed necessary or desirable by the Unit Operator and the working interest owners in the Unit Area.

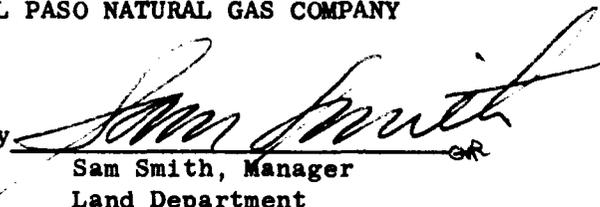
If this Drilling Program is acceptable, please signify your approval in the space provided on the attached sheet and return an approved copy to El Paso Natural Gas Company.

Copies of this Drilling Program are being sent to the Working Interest Owners shown on the attached sheet.

Very truly yours,

EL PASO NATURAL GAS COMPANY

By

  
Sam Smith, Manager  
Land Department

SS:JBB:cah  
Attachment

APPROVED: \_\_\_\_\_ DATE: \_\_\_\_\_  
Supervisor, United States Geological Survey  
Subject to like approval by the appropriate  
State officials.

APPROVED: \_\_\_\_\_ DATE: \_\_\_\_\_  
Commissioner of Public Lands  
Subject to like approval by the United States  
Geological Survey and the Oil Conservation Commission.

APPROVED: A. H. Potter, Jr. DATE: 5-1-62  
Oil Conservation Commission  
Subject to like approval by the United States  
Geological Survey and the Commissioner of  
Public Lands.

The foregoing approvals are for the 1962 Drilling Program for the Cox Canyon  
Unit, I-Sec. No. 946, San Juan County, New Mexico.

**COX CANYON UNIT**  
**Working Interest Owners**

**Sinclair Oil & Gas Company**  
**P.O. Box 4005**  
**Albuquerque, New Mexico**  
**Attention: Mr. A. . Koenig**

**Colorado Oil & Gas Corporation**  
**Denver Club Building**  
**Denver, Colorado**



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY  
WASHINGTON 25, D. C.

Sinclair Oil and Gas Company  
P. O. Box 4005  
Albuquerque, New Mexico

NOV - 9 1951

Gentlemen:

Reference is to your application to September 24, 1951, filed with the Oil and Gas Supervisor, Roswell, New Mexico, requesting designation of 2560 acres, more or less, in San Juan County, New Mexico, as logically subject to exploration and development under the unitization provisions of the Mineral Leasing Act, as amended.

Pursuant to regulations of December 22, 1950, 30 C. F. R., section 226.3, the following land is designated as a logical unit area, to be known as the Cox Canyon Unit Area:

New Mexico Principal Meridian, New Mexico

T. 32 N., R. 11 W.,  
sec. 8, lots 1 and 2, S $\frac{1}{2}$ SE $\frac{1}{4}$   
sec. 9, lots 1, 2, 3 and 4, S $\frac{1}{2}$ SW $\frac{1}{4}$ , S $\frac{1}{2}$ SE $\frac{1}{4}$   
sec. 16, all  
sec. 17, E $\frac{1}{2}$ , E $\frac{1}{2}$ W $\frac{1}{2}$   
sec. 20, NE $\frac{1}{4}$ , E $\frac{1}{2}$ SE $\frac{1}{4}$   
sec. 21, all  
sec. 28, N $\frac{1}{2}$ NW $\frac{1}{4}$

Any unit agreement submitted for the area described above should conform with section 226.12 of the above-cited regulations, and provide for a test well drilled to a depth of 8500 feet.

Inasmuch as state lands are involved, the standard form should contain modifications applicable to state lands. If conditions are such as to require further modification of the standard form, three copies of the form so modified, and all deviations plainly marked and with explanations and justifications therefor, must be submitted through the Oil and Gas Supervisor for preliminary approval.

When the executed agreement is transmitted to the Supervisor for approval, include the latest status of all Federal acreage showing the current record owner of all issued leases and the current status of all lease applications, if any. However, notice is hereby given that the right is reserved to deny approval of any executed agreement submitted which in my opinion does not have the full commitment of sufficient lands to afford effective control of unit operations.

Very truly yours,

*Julian D. Leary*  
Acting Director

*Exhibit "C"*



RESUME OF THE GEOLOGY

COX CANYON STRUCTURE

T. 32 N., R 11 W.

San Juan County, New Mexico

Regional Location: North-central San Juan Basin.

Surface Formation: Wasatch (Tertiary).

Structure: As mapped on the outcropping Tertiary Rocks, the Cox Canyon Anomaly is a small structural dome having approximately 30 feet of surface closure. The crest of the structure lies approximately at the south line of the Southwest Quarter of Section 16, T 32 N., R.11 W.

Development: Untested

Possible  
Producing  
Horizons:

Tested

None

Untested

Pictured Cliffs 3000 2100 feet  
Cliff House 5100 3700 feet  
Point Lookout 5000 4400 feet  
Dakota 7900 6500 feet  
*Monkton 8200*

Reference: Detail map and report by H. Clark.

Original signed by

C. D. JOHNSON

---

C. D. Johnson  
Division Geologist  
Sinclair Oil & Gas Company

*Exhibit "B"*

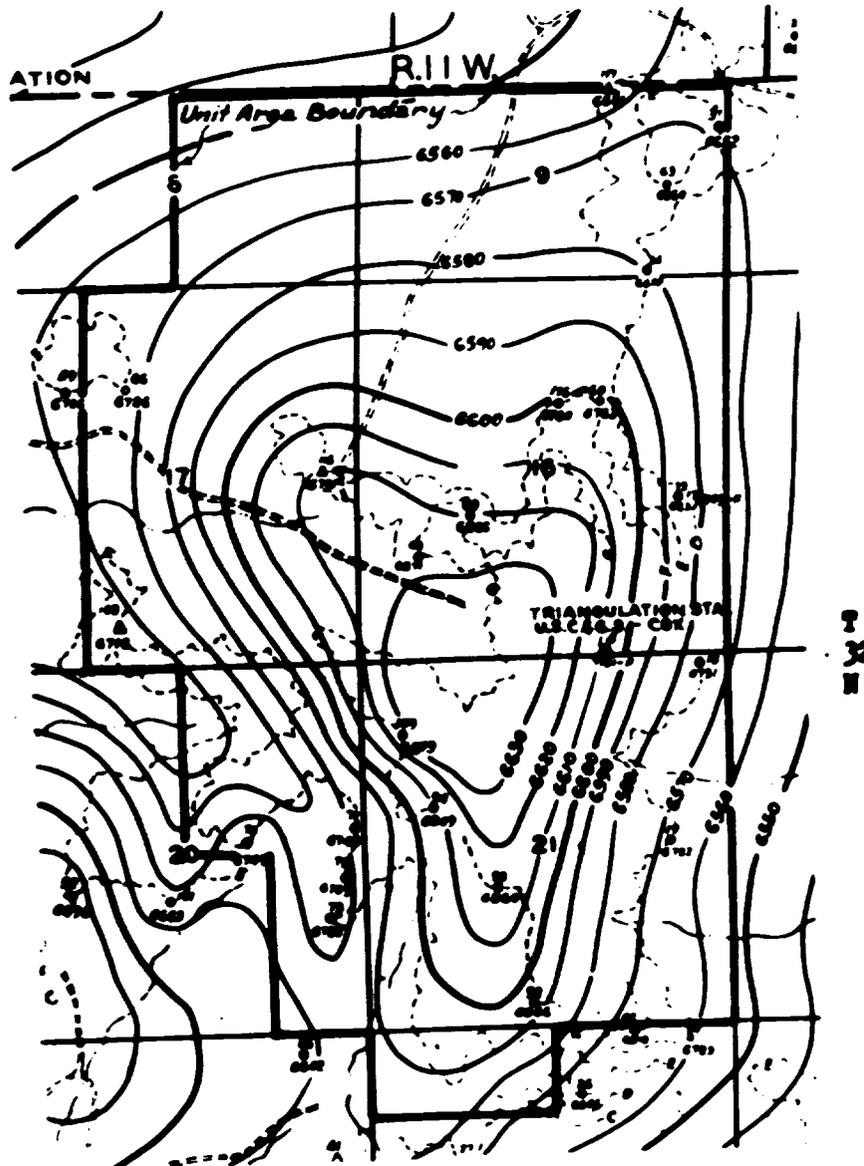
**SURFACE STRUCTURE MAP**

**COX CANYON ANTICLINE**

**SAN JUAN COUNTY, NEW MEXICO**

**SCALE: 2 in - 1 mile. August, 1947.**

**Howard Clark, Geol. Geo. Homeway, Ass't.**



**Datum is Mean Sea Level U.S.G.S. B.M. #197, Elev. 5764  
Contours on Wasatch Bed "C". Interval 10 Ft.  
Horizontal and Vertical Control by  
Plane Table Triangulation & Trigonometric Leveling**

# El Paso Natural Gas Company

El Paso, Texas

May 2, 1961

*Unit*

Mr. John A. Anderson  
Regional Oil and Gas Supervisor  
United States Geological Survey  
Post Office Drawer 1857  
Roswell, New Mexico

Commissioner of Public Lands  
State of New Mexico  
Post Office Box 791  
Santa Fe, New Mexico

Oil Conservation Commission  
State of New Mexico  
Capitol Annex Building  
Santa Fe, New Mexico

Re: Cox Canyon Unit  
1961 PLAN OF DEVELOPMENT

Gentlemen:

The 1961 Drilling Program for the Cox Canyon Unit was approved by the regulatory bodies on the following dates:

1. United States Geological Survey - March 24, 1961
2. Commissioner of Public Lands - April 17, 1961
3. Oil Conservation Commission - April 27, 1961

Copies of this letter are being sent to all the working interest owners of the Cox Canyon Unit.

Very truly yours,

*Charles Higgins*

Charles Higgins  
Area Coordinator  
Land Department

CH: JBB: cah

# El Paso Natural Gas Company

El Paso, Texas

May 2, 1961

Mr. John A. Anderson  
Regional Oil and Gas Supervisor  
United States Geological Survey  
Post Office Drawer 1857  
Roswell, New Mexico

Commissioner of Public Lands  
State of New Mexico  
Post Office Box 791  
Santa Fe, New Mexico

Oil Conservation Commission  
State of New Mexico  
Capitol Annex Building  
Santa Fe, New Mexico

Re: Cox Canyon Unit  
1961 PLAN OF DEVELOPMENT

Gentlemen:

The 1961 Drilling Program for the Cox Canyon Unit was approved by the regulatory bodies on the following dates:

1. United States Geological Survey - March 24, 1961
2. Commissioner of Public Lands - April 17, 1961
3. Oil Conservation Commission - April 27, 1961

Copies of this letter are being sent to all the working interest owners of the Cox Canyon Unit.

Very truly yours,



Charles Higgins  
Area Coordinator  
Land Department

CH: JBB: cah

OIL CONSERVATION COMMISSION

P. O. BOX 871

SANTA FE, NEW MEXICO

*Case # 36d*

April 27, 1961

**El Paso Natural Gas Company  
P. O. Box 1492  
El Paso, Texas**

**Attention: Mr. Sam Smith**

**Re: 1961 Plan of Development  
Cox Canyon Unit San Juan  
County, New Mexico**

**Gentlemen:**

**This is to advise that the New Mexico Oil Conservation Commission has this date approved the 1961 Plan of Development for the Cox Canyon Unit, San Juan County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.**

**One approved copy of the plan is returned herewith.**

**Very truly yours,**

**A. L. PORTER, Jr.,  
Secretary-Director**

**ALP/JEK/ig**

**cc: US Geological Survey  
Roswell, New Mexico**

**Commissioner of Public Lands  
Santa Fe, New Mexico**

C  
O  
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Y



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

P.O. Box 6721  
Roswell, New Mexico

March 24, 1961

El Paso Natural Gas Company  
P. O. Box 1492  
El Paso, Texas

Attention: Mr. Sam Smith

Gentlemen:

Your plan of development for 1961, dated January 6, 1961, for the Cox Canyon unit area, San Juan County, New Mexico, which proposes the drilling of no additional wells, has been approved on this date subject to like approval by the appropriate State officials.

Two approved copies of the plan are enclosed.

Very truly yours,

EDWIN M. THOMASSON  
Acting Regional Oil and Gas Supervisor

Copy to. Washington (w/cy of plan)  
Farmington (w/cy of plan)  
7 NMOCC, Santa Fe (ltr. only)

April 17, 1961

El Paso Natural Gas Company  
P. O. Box 6721  
El Paso, Texas

Re: Cox Canyon Unit  
San Juan County, New Mexico  
1961 Plan of Development

Attention: Mr. Sam Smith

Gentlemen:

The Commissioner of Public Lands has approved, as of April 17, 1961, the 1961 Plan of Development for the Cox Canyon Unit Area.

This plan calls for no further development during the 1961 calendar year.

This approval is subject to like approval by the United States Geological Survey and the Oil Conservation Commission.

We are enclosing one approved copy of this plan.

Very truly yours,  
E. S. JOHNNY WALKER  
COMMISSIONER OF PUBLIC LANDS

BY:  
Ted Bilberry, Supervisor  
Oil and Gas Division

ESW/mm/s  
cc:

OCC- Santa Fe  
USGS- Roswell

# El Paso Natural Gas Company

El Paso, Texas

January 6, 1961

Mr. John A. Anderson  
Regional Oil and Gas Supervisor  
United States Geological Survey  
Post Office Box 6721  
Roswell, New Mexico

Commissioner of Public Lands  
Of the State of New Mexico  
Capitol Annex Building  
Santa Fe, New Mexico

Oil Conservation Commission  
Of the State of New Mexico  
Capitol Annex Building  
Santa Fe, New Mexico

Re: Cox Canyon Unit, I Sec. No. 946  
San Juan County, New Mexico  
PLAN OF DEVELOPMENT FOR CALENDAR  
YEAR 1961

Gentlemen:

In compliance with Section 10 of the Cox Canyon Unit Agreement, El Paso Natural Gas Company, successor to Pacific Northwest Pipeline Corporation as Unit Operator, submits a Plan of Development for the Calendar Year 1961 which provides for the drilling of no wells.

No wells are proposed in view of the complete development of the Mesaverde formation within the Cox Canyon Unit Area.

Eight (8) commercial Mesaverde wells have been drilled in the Unit Area and in addition to these the Unit has a 25% interest in the Riddle #1 and Fields #5 Wells which were drilled outside of the Unit to the Mesaverde. Each of the Non-Unit wells has an 80 acre tract from the Unit Area communitized with it.

By letter dated December 19, 1960, El Paso Natural Gas Company submitted a proposed Plan of Development to the working interest owners providing for the drilling of no wells during the calendar year 1961. A majority of the working interest owners have consented to this plan.

El Paso Natural Gas Company, as Unit Operator, plans to drill any offset wells required to prevent drainage of unitized substances and any other wells deemed necessary or desirable by the Unit Operator and the working interest owners in the Unit Area.

If this Plan of Development is acceptable, please signify your approval in the space provided on the attached sheet and return an approved copy to El Paso Natural Gas Company.

Copies of this Drilling Program are being sent to the Working Interest Owners shown on the attached sheet.

Very truly yours,

EL PASO NATURAL GAS COMPANY

By   
Sam Smith, Manager  
Land Department

SS: JBB: js

APPROVED: \_\_\_\_\_  
Supervisor, United States Geological Survey  
Subject to like approval by the appropriate  
State officials.

DATE: \_\_\_\_\_

APPROVED: \_\_\_\_\_  
Commissioner of Public Lands  
Subject to like approval by the United States  
Geological Survey and the Oil Conservation  
Commission.

DATE: \_\_\_\_\_

APPROVED: *A. H. Porter, Jr.*  
Oil Conservation Commission  
Subject to like approval by the United States  
Geological Survey and the Commissioner of  
Public Lands

DATE: 4-28-61

The foregoing approvals are for the 1961 Plan of Development for the Cox Canyon  
Unit, I-Sec. No. 946, San Juan County, New Mexico.

COX CANYON UNIT  
Working Interest Owners

Sinclair Oil & Gas Company  
Post Office Box 4005  
Albuquerque, New Mexico  
Attention: Mr. A. A. Koenig

Colorado Oil & Gas Corporation  
Denver Club Building  
Denver, Colorado

El Paso Natural Gas Company

El Paso, Texas

October 19, 1960

*Cox Canyon*

Mr. John A. Anderson  
Regional Oil and Gas Supervisor  
United States Geological Survey  
P. O. Box 6721  
Roswell, New Mexico

Commissioner of Public Lands  
Of the State of New Mexico  
Capitol Annex Building  
Santa Fe, New Mexico

Oil Conservation Commission  
Of the State of New Mexico  
Capitol Annex Building  
Santa Fe, New Mexico

Re: Approval of 1960 Plan of Development  
Cox Canyon Unit  
San Juan County, New Mexico

Gentlemen:

This is to advise that the 1960 Cox Canyon Unit Plan of Development has been approved as follows:

United States Geological Survey	October 6, 1960
Commissioner of Public Lands	October 14, 1960
Oil Conservation Commission	October 6, 1960

A copy of this letter is being sent to all the working interest owners within this Unit.

Very truly yours,

EL PASO NATURAL GAS COMPANY

By Charles Higgins  
Charles Higgins  
Area Coordinator  
Land Department

CH:JBB:nl

Cox Canyon Unit  
Working Interest Owners

Sinclair Oil & Gas Company  
P. O. Box 4005  
Albuquerque, New Mexico  
Attention: Mr. A. A. Koenig

Colorado Oil & Gas Corporation  
Denver Club Building  
Denver, Colorado

In reply refer to:  
Unit Division

October 14, 1960

El Paso Natural Gas Company  
P. O. Box 1492  
El Paso, Texas

Re: 1960 Plan of Development  
Cox Canyon Unit, San Juan  
County, New Mexico

Attention: Mr. Sam Smith

Gentlemen:

The Commissioner of Public Lands approved your Plan of Development for 1960, for the Cox Canyon Unit, San Juan County New Mexico, subject to like approval by the United States Geological Survey and the Oil Conservation Commission.

We are enclosing two approved copies.

Very truly yours,  
MURRAY E. MORGAN  
Commissioner of Public Lands

BY:  
Ted Bilberry, Supervisor  
Oil and Gas Division

MEM/mmrs/s

cc: United States Geological Survey  
Roswell, New Mexico

Oil Conservation Commission  
P. O. Box 871  
Santa Fe, New Mexico



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

P. O. Box 6721  
Roswell, New Mexico

*Cox Canyon*  
October 6, 1960

El Paso Natural Gas Company  
P. O. Box 1492  
El Paso, Texas

Attention: Mr. Sam Smith

Gentlemen:

Your plan of Development for 1960, filed October 5, 1960, for the Cox Canyon Unit, San Juan County, New Mexico, proposing no additional drilling during 1960 has been approved on this date subject to like approval by appropriate State officials.

Two approved copies of this plan are enclosed.

Very truly yours,

JOHN A. ANDERSON  
Regional Oil and Gas Supervisor

Copy to: Washington (w/cy of plan)  
Farmington (w/cy of plan)  
NMOCC-Santa Fe (ltr. only) ✓  
Comm. of Public Lands-Santa Fe (ltr. only)

O CONSERVATION COMMISSIC

P. O. BOX 871

SANTA FE, NEW MEXICO

Case # 361

October 6, 1960

C El Paso Natural Gas Company  
P. O. Box 1492  
El Paso, Texas

O Attention: Mr. Sam Smith

RE: 1960 Plan of Development  
Cox Canyon Unit San Juan  
County, New Mexico.

P Gentlemen:

Y This is to advise that the New Mexico Oil Conservation Commis-  
sion has this date approved the 1960 Plan of Development for the  
Cox Canyon Unit San Juan County, New Mexico, subject to like approv-  
al by the United States Geological Survey and the Commissioner of  
Public Lands of the State of New Mexico.

One approved copy of the plan is returned herewith.

Very truly yours,

A. L. PORTER, Jr.,  
Secretary-Director

ALP/JEK/ig

cc: US Geological Survey - Roswell, New Mexico  
Commissioner of Public Lands - Santa Fe, New Mexico

El Paso Natural Gas Company

El Paso, Texas

September 29, 1960

Mr. John A. Anderson  
Regional Oil and Gas Supervisor  
United States Geological Survey  
Post Office Box 6721  
Roswell, New Mexico

Commissioner of Public Lands  
Of the State of New Mexico  
Capitol Annex Building  
Santa Fe, New Mexico

Oil Conservation Commission  
Of the State of New Mexico  
Capitol Annex Building  
Santa Fe, New Mexico

Re: Cox Canyon Unit, I-Sec. No. 946  
San Juan County, New Mexico  
PLAN OF DEVELOPMENT FOR CALENDAR  
YEAR 1960

Gentlemen:

In compliance with Section 10 of the Cox Canyon Unit Agreement, El Paso Natural Gas Company, successor to Pacific Northwest Pipeline Corporation as Unit Operator, submits a Plan of Development for the Calendar Year 1960 which provides for the drilling of no wells.

No wells are proposed in view of the complete development of the Mesaverde Formation within the Cox Canyon Unit Area. There are no offsetting wells completed in any formation other than the Mesaverde that would cause drainage.

Eight (8) commercial Mesaverde wells have been drilled in the Unit Area and in addition to these the Unit has a 25% interest in the Riddle #1 and Fields #5 Wells which were drilled outside of the Unit to the Mesaverde. Each of the Non-Unit wells has an 80 acre tract from the Unit Area communitized with it.

By letter dated September 15, 1960, El Paso Natural Gas Company submitted a proposed Plan of Development to the working interest owners providing for the drilling of no wells during the calendar year 1960. A majority of the working interest owners have consented to this plan.

El Paso Natural Gas Company, as Unit Operator, plans to drill any offset wells required to prevent drainage of unitized substances and any

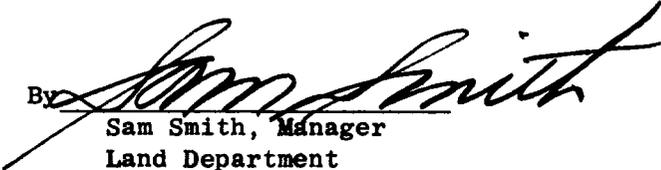
other wells deemed necessary or desirable by the Unit Operator and the working interest owners in the Unit Area.

If this Plan of Development is acceptable, please signify your approval in the space provided on the attached sheet and return an approved copy to El Paso Natural Gas Company.

Very truly yours,

EL PASO NATURAL GAS COMPANY

By

  
Sam Smith, Manager  
Land Department

SS:JBB:n1

cc: Working Interest Owners

APPROVED: \_\_\_\_\_  
Supervisor, United States Geological Survey  
Subject to like approval by the appropriate  
State officials.

DATE \_\_\_\_\_

APPROVED: \_\_\_\_\_  
Commissioner of Public Lands  
Subject to like approval by the United States  
Geological Survey and the Oil Conservation  
Commission.

DATE \_\_\_\_\_

APPROVED: A. H. Carter, L.  
Oil Conservation Commission  
Subject to like approval by the United States  
Geological Survey and the Commissioner of  
Public Lands.

DATE 10-6-60

The foregoing approvals are for the 1960 Plan of Development for the Cox Canyon  
Unit, I-Sec. No. 946, San Juan County, New Mexico.

**Cox Canyon Unit**  
**Working Interest Owners**

**Sinclair Oil & Gas Company**  
**Post Office Box 4005**  
**Albuquerque, New Mexico**  
**Attention: Mr. A. A. Koenig**

**Colorado Oil & Gas Corporation**  
**Denver Club Building**  
**Denver, Colorado**

El Paso Natural Gas Company

El Paso, Texas

June 17, 1960

Cox 561

Mr. John A. Anderson  
Regional Oil and Gas Supervisor  
United States Geological Survey  
P. O. Box 6721  
Roswell, New Mexico

Commissioner of Public Lands  
Of the State of New Mexico  
Capitol Annex Building  
Santa Fe, New Mexico

Oil Conservation Commission  
Of the State of New Mexico  
Capitol Annex Building  
Santa Fe, New Mexico

Re: Cox Canyon Unit  
I-Sec. No. 946

Gentlemen:

You will find set out below the dates that action was taken by the regulatory bodies recognizing El Paso Natural Gas Company as the Unit Operator of the Cox Canyon Unit.

1. Acting Director of the United States Geological Survey on May 20, 1960.
2. Commissioner of Public Lands of the State of New Mexico on April 6, 1960.
3. Oil Conservation Commission of the State of New Mexico on April 22, 1960.

Copies of this letter are being sent to the working interest owners shown on the attached sheet.

Very truly yours,

*Charles Higgins*

Charles Higgins  
Area Coordinator  
Land Department

CH:GWO:nl

**Cox Canyon Unit**  
**Working Interest Owners**

**Sinclair Oil & Gas Company**  
**P. O. Box 4005**  
**Albuquerque, New Mexico**  
**Attention: Mr. A. A. Koenig**

**Colorado Oil & Gas Corporation**  
**Denver Club Building**  
**Denver, Colorado**

CONSERVATION COMMISSION

P. O. BOX 871

SANTA FE, NEW MEXICO

Case # 361

April 22, 1960

C

El Paso Natural Gas Company  
P. O. Box 1492  
El Paso, Texas

O

Attention: Mr. Sam Smith

Re: Change of Unit Operator,  
Cox Canyon Unit, San  
Juan County, New Mexico.

P

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission approves El Paso Natural Gas Company as Unit Operator for Cox Canyon Unit.

As the surviving corporation by Merger with Pacific Northwest, El Paso Natural Gas Company complies fully with the terms of the Cox Canyon Unit Agreement allowing El Paso's assumption of rights, duties, obligations and responsibility of Unit Operator.

Y

The approval of this change of Unit Operator is made subject to like approval by the Director of the United States Geological Survey and the Commissioner of Public Lands.

One approved copy is enclosed.

Very truly yours,

A. L. PORTER, Jr.,  
Secretary-Director

ALP/JEK/pj

cc: United States Geological Survey - Roswell

State Land Office - Santa Fe

In reply refer to:  
Unit Division

April 6, 1960

C  
O  
El Paso Natural Gas Company  
El Paso, Texas

ATTENTION: Mr. Sam Smith

Re: Cox Canyon Unit  
San Juan County, New Mexico

P  
Gentlemen:

The Commissioner of Public Lands approves the designation of El Paso Natural Gas Company, as operator of the above designated unit.

Y  
Change of operator of this unit being due to Pacific Northwest pipeline Corporation being merged with and into El Paso Natural Gas Company, El Paso, Texas, as the surviving Corporation.

Section 6 of the unit agreement, has been complied with and the working interest owners of the unit have confirmed El Paso as being acceptable as unit operator.

We are enclosing two approved copies of this designation. Please remit a two dollars (2.00) filing fee to cover handling of these documents.

Very truly yours,  
MURRAY E. MORGAN  
Commissioner of Public Lands

BY:  
Ted Bilberry, Supervisor  
Oil and Gas Division

HBM/WHL/s

cc:

Oil Conservation Commission  
Santa Fe, New Mexico  
USGS- Roswell, New Mexico

# El Paso Natural Gas Company

El Paso, Texas

March 28, 1960

Mr. John A. Anderson  
Regional Oil and Gas Supervisor  
United States Geological Survey  
Post Office Box 6721  
Roswell, New Mexico

Commissioner of Public Lands  
Of the State of New Mexico  
Capitol Annex Building  
Santa Fe, New Mexico

Oil Conservation Commission  
Of the State of New Mexico  
Capitol Annex Building  
Santa Fe, New Mexico

Re: Cox Canyon Unit  
I-Sec. No. 946  
San Juan County, New Mexico

Gentlemen:

Since December 31, 1959, on which date Pacific Northwest Pipeline Corporation was merged with and into El Paso Natural Gas Company, El Paso, as the surviving corporation, has been acting in the capacity of Operator of the captioned Unit.

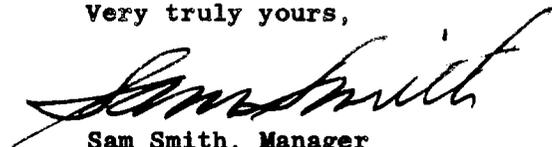
In compliance with Section 6 of the Unit Agreement, the working interest owners were polled to ascertain if El Paso was acceptable to succeed Pacific as Unit Operator. The results of voting by a majority of the working interest ownership has confirmed El Paso as Unit Operator.

In the event El Paso's confirmation as Unit Operator is approved by the regulatory agencies, El Paso assumes and accepts all of the rights, duties, obligations and responsibilities attendant upon the Operator of the captioned Unit pursuant to the terms of the Unit Agreement and Unit Operating Agreement.

We herewith respectfully request that El Paso Natural Gas Company be approved as Unit Operator in the space provided on the attached sheet and that one copy be returned to this office.

A copy of this letter is being sent to all working interest owners within this Unit.

Very truly yours,



Sam Smith, Manager  
Land Department

SS:CVD:nl

cc: Attached List

Cox Canyon Unit  
Working Interest Owners

Sinclair Oil & Gas Company  
Post Office Box 4005  
Albuquerque, New Mexico  
Attention: Mr. A. A. Koenig

Colorado Oil & Gas Corporation  
Denver Club Building  
Denver, Colorado

APPROVED: \_\_\_\_\_  
Director, United States Geological Survey  
Subject to like approval by the appropriate  
State Officials.

DATE: \_\_\_\_\_

APPROVED: \_\_\_\_\_  
Commissioner of Public Lands  
Subject to like approval by the United States  
Geological Survey and the Oil Conservation  
Commission.

DATE: \_\_\_\_\_

APPROVED: (W.K. Patton)  
Oil Conservation Commission  
Subject to like approval by the United States  
Geological Survey and the Commissioner of  
Public Lands.

DATE: 4-22-60

DSK

OIL CONSERVATION COMMISSION

P. O. BOX 871

SANTA FE, NEW MEXICO

361

February 28, 1957

C

Pacific Northwest Pipeline Corporation  
P. O. Box 1526  
Salt Lake City 10, Utah

Attention: Mr. R. N. Richey

O

Re: Cox Canyon Unit  
San Juan County, New Mexico  
1957 Plan of Development

Gentlemen:

P

This is to advise that the New Mexico Oil Conservation Commission has this date approved the 1957 Plan of Development for the above-captioned unit area, dated December 27, 1956, subject to like approval by the United States Geological Survey and by the Commissioner of Public Lands of the State of New Mexico.

One approved copy of the Plan is enclosed herewith.

Y

Very truly yours,

A. L. PORTER, Jr.,  
Secretary-Director

ALP/DSN/ir

Enclosure

bcc: U. S. G. S. - Roswell  
Commissioner of Public Lands - Santa Fe

IN REPLY REFER TO:



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY  
P. O. Box 6721  
Roswell, New Mexico

January 25, 1957

Pacific Northwest Pipeline Corporation  
P. O. Box 1526  
Salt Lake City 10, Utah

Attention: Mr. R. N. Richey

Gentlemen:

Your plan of development dated December 27, 1956, for the year 1957 for the Cox Canyon Unit, I-Sec. No. 946, San Juan County, New Mexico, has been approved on this date subject to like approval by the appropriate State of New Mexico officials.

One approved copy of the plan is returned herewith.

Very truly yours,

(Orig. Sgd.) JOHN A. ANDERSON

JOHN A. ANDERSON  
Regional Oil and Gas Supervisor

Copy to: Cons. Div., Wash. (w/copy of plan)  
Farmington (w/copy of plan)  
Comm. of Public Lands, Santa Fe (letter only)

✓

OIL CONSERVATION COMMISSION

P. O. BOX 871

SANTA FE, NEW MEXICO

February 28, 1957

*W.C.*

Pacific Northwest Pipeline Corporation  
P. O. Box 1526  
Salt Lake City 10, Utah

Attention: Mr. R. N. Richey

Re: Cox Canyon Unit  
San Juan County, New Mexico  
1957 Plan of Development

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the 1957 Plan of Development for the above-captioned unit area, dated December 27, 1956, subject to like approval by the United States Geological Survey and by the Commissioner of Public Lands of the State of New Mexico.

One approved copy of the Plan is enclosed herewith.

Very truly yours,

*A. L. Porter, Jr.*  
A. L. PORTER, Jr.,  
Secretary-Director

ALP/DSN/ir

Enclosure

bcc: U. S. G. S. - Roswell  
Commissioner of Public Lands - Santa Fe

C  
O  
P  
Y

# PACIFIC NORTHWEST PIPELINE CORPORATION

SALT LAKE CITY, UTAH

December 27, 1956

REPLY TO:  
P. O. Box 1526  
SALT LAKE CITY 10, UTAH

Regional Supervisor  
United States Geological Survey  
Post Office Box 6721  
Roswell, New Mexico

Commissioner of Public Lands  
State of New Mexico  
Post Office Box 791  
Santa Fe, New Mexico

Re: Cox Canyon Unit Area  
San Juan County, New Mexico  
Plan of Development for 1957

Oil Conservation Commission ← COPY  
State of New Mexico  
Post Office Box 871  
Santa Fe, New Mexico

Gentlemen:

In compliance with Section X of the Cox Canyon Unit Agreement, which requests the submission to the above governmental agencies Plans of Development for specified periods of time, Pacific submits the following Plan of Development for the Calendar Year 1957:

The Unit discovery well for the Cox Canyon Unit was completed on July 20, 1953, for an initial potential of 4,200 Mcfgpd. From information obtained from this well and wells drilled in the surrounding vicinity of the Cox Canyon Unit, the Unit Operator applied for and received approval of the entire unit area as the initial Mesaverde participating area.

Subsequent to the formation of the Mesaverde participating area, the Unit Operator has developed this Unit in the Mesaverde formation to a density of one well to each 320 acres on spacing units approved by the State of New Mexico. The results of drilling within the Unit are tabulated as follows:

<u>Well Name</u>	<u>Location</u>	<u>Completion Date</u>	<u>Initial Potential</u>
3-9	SW/4 Sec. 9, T 32 N, R 10 W	11/22/55	5,704 Mcfgpd
4-21	NE/4 Sec. 21, T 32 N, R 11 W	2/20/56	5,613 "
5-21	SW/4 Sec. 21, T 32 N, R 11 W	1/24/56	12,381 "
6-16	NE/4 Sec. 16, T 32 N, R 11 W	3/15/56	5,022 "
7-17	NE/4 Sec. 17, T 32 N, R 11 W	4/4/56	4,828 "
8-8	SE/4 Sec. 8, T 32 N, R 11 W	4/10/56	4,704 "

Re: Cox Canyon Unit Area

December 27, 1956

In addition to the above drilling within the Unit boundaries, two wells have been drilled outside the Unit area in which the Unit participating area participates in 25% of the production of each well located in the following communitized blocks:

<u>Well Name</u>	<u>Location</u>	<u>Completion Date</u>	<u>Initial Potential</u>
Fields #5	W/2 Sec. 28, T 32 N, R 11 W	3/8/56	24,390 Mcfgpd
Riddle #1	S/2 Sec. 20, T 32 N, R 11 W	7/24/53	8,199 "

No wells are producing from horizons, other than Mesaverde, within or near the Unit.

In view of the complete development of the Mesaverde formation within the Cox Canyon Unit area and lack of drainage by offsetting wells completed in any other formation, the Unit Operator does not plan any additional wells within this area during the Calendar Year 1957.

Very truly yours,

PACIFIC NORTHWEST PIPELINE CORPORATION



R. N. Richey, Manager  
Land Department

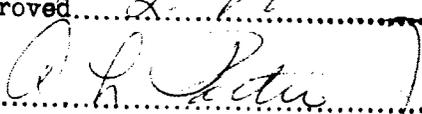
RNR:DNC:mdc

cc: El Paso Natural Gas Company  
Attn: R. L. Hamblin  
El Paso, Texas

Sinclair Oil and Gas  
Attn: A. A. Keonig  
Albuquerque, New Mexico

Colorado Oil and Gas Company  
Denver, Colorado

Approved.....*L. J. [unclear]*.....1957



.....  
Secretary-Director

NEW MEXICO OIL CONSERVATION COMMISSION

THIS APPROVAL GRANTED SUBJECT TO LIKE APPROVAL BEING GRANTED BY THE UNITED STATES GEOLOGICAL SURVEY AND BY THE COMMISSIONER OF PUBLIC LANDS OF THE STATE OF NEW MEXICO.

PACIFIC NORTHWEST PIPELINE CORPORATION

SALT LAKE CITY, UTAH

REPLY TO:  
P. O. Box 1526  
SALT LAKE CITY 10, UTAH

August 15, 1956

Regional Supervisor  
United States Geological Survey  
Post Office Box 6721  
Roswell, New Mexico

Re: Cox Canyon Unit  
Tract #12  
Ratification & Joinder  
of Unit Agreement

Commissioner of Public Lands  
State of New Mexico  
Post Office Box 791  
Santa Fe, New Mexico

Oil Conservation Commission  
State of New Mexico  
Post Office Box 871  
Santa Fe, New Mexico

*file*

Gentlemen:

I am enclosing for your files copies of the following Ratifications and Joinders of Unit Agreement, Cox Canyon Unit, San Juan County, New Mexico:

- (1) Ratification and Joinder of Unit Agreement executed by John H. Wynne, committing his overriding royalty interest under Tract #12 of 1/16 of 1% to the Cox Canyon Unit. This instrument was recorded in the County Records of San Juan County, New Mexico, on the 26th day of July, 1956, in Book 306, Page 145.
- (2) Ratification and Joinder of Unit Agreement executed by Texas National Petroleum Company, committing their overriding royalty interest under Tract #12 of 1.875% to the Cox Canyon Unit. This instrument was recorded in the County Records of San Juan County, New Mexico, on the 26th day of July, 1956, in Book 306, Page 146.
- (3) Ratification and Joinder of Unit Agreement executed by Alma Beamon Anderson and M. P. Anderson, committing their overriding royalty interest under Tract #12 of 1/24 of 1% to the Cox Canyon Unit. This instrument was recorded in the County Records of San Juan County, New Mexico, on the 26th day of July, 1956, in Book 306, Page 147.
- (4) Ratification and Joinder of Unit Agreement executed by R. E. Beamon, committing his overriding royalty interest under Tract #12 of 1/12 of 1% to the Cox Canyon Unit. This instrument was recorded in the County Records of San Juan County, New Mexico, on the 26th day of July, 1956, in Book 306, Page 148.

Re: Cox Canyon Unit - Tract #12

August 15, 1956

- (5) Ratification and Joinder of Unit Agreement executed by Petro Minerals, Inc., committing their overriding royalty interest under Tract #12 of 43.75% of 1% to the Cox Canyon Unit. This instrument was recorded in the County Records of San Juan County, New Mexico, on the 26th day of July, 1956, in Book 306, Page 149.

Copies of this letter will be sent to all working interest owners in the Cox Canyon Unit.

Very truly yours,

PACIFIC NORTHWEST PIPELINE CORPORATION



D. L. ANDERSON  
Land Department

DLA:jb

Enclosures

RATIFICATION AND JOINDER OF UNIT AGREEMENT

In consideration of the execution of the Unit Agreement for the Development and Operation of the Cox Canyon Unit Area located within the County of San Juan State of New Mexico in form approved on behalf of the Secretary of the Interior, the undersigned owners of lands or leases, or interests therein or royalties presently held or which may arise under existing option agreements, or other interests in production covered by said Unit Agreement hereby severally, each to the extent of his or her particular ownership or interest, as may appear, consent to the inclusion of said lands within the Unit Area therein defined, ratify, approve and adopt the terms of said Unit Agreement and any modifications thereof approved by the Secretary of the Interior or his duly authorized representative as applicable to said several lands and interests, agree that the term of any lease given by the undersigned or under which the undersigned claims an interest herein is extended and modified to the extent necessary to make the same conform to the terms of said Unit Agreement, agree that the drilling, development and producing requirements of all leases and other contracts in which their several rights and interests are created or defined shall be deemed fully performed by performance of the provisions of said Unit Agreement, and agree that payment for or delivery of (whichever may be required under prior agreements) oil and gas duly made at contract rates applied to the production allocated under said Unit Agreement to the particular lands to which such rights or interests do or shall apply, regardless of actual production therefrom, shall constitute full performance of all such obligations to the undersigned existing under such leases or other contracts.

This Ratification and Joinder of Unit Agreement may be executed in any number of counterparts with the same force and effect as if all parties had signed the same document and shall be binding upon all those who execute a counterpart hereof, regardless of whether or not it is executed by all other parties owning or claiming an interest in the lands affected hereby, and when so executed shall be binding upon the undersigned, his or her assigns or successors in interest.

ADDRESS

3340 Charleston Street

Houston, Texas

Date: June 5, 1956

SIGNATURE

John H. Wynne

Date: \_\_\_\_\_

Approved and Consented to:  
PACIFIC NORTHWEST PIPELINE CORPORATION  
Unit Operator

BY [Signature]  
: Vice President

APPROVED AND CONSENTED TO:  
EL PASO NATURAL GAS COMPANY  
By [Signature] R.H.  
Vice President  
WORKING INTEREST OWNER

STATE OF )  
COUNTY OF ) SS.:

On this \_\_\_\_\_ day of \_\_\_\_\_, 195\_\_\_\_, before me appeared

\_\_\_\_\_, to me personally known, who, being by me duly sworn, did say that he is the \_\_\_\_\_ President of \_\_\_\_\_ and that the seal affixed to said instrument is the corporate seal of said corporation, and that said instrument was signed and sealed in behalf of said corporation by authority of its board of directors, and said \_\_\_\_\_ acknowledged said instrument to be the free act and deed of said corporation.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal the day and year in this certificate first above written.

My Commission expires:

\_\_\_\_\_  
Notary Public in and for \_\_\_\_\_  
County,  
State of \_\_\_\_\_

STATE OF )  
COUNTY OF ) SS.:

On this \_\_\_\_\_ day of \_\_\_\_\_, 195\_\_\_\_, before me appeared

\_\_\_\_\_ and \_\_\_\_\_ his wife, to me known to be the persons described in and who executed the foregoing instrument, and acknowledged to me they executed the same as their free act and deed.

My Commission expires:

\_\_\_\_\_  
Notary Public in and for \_\_\_\_\_  
County,  
State of \_\_\_\_\_

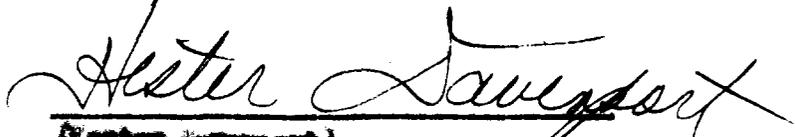
STATE OF ~~MISS~~ )  
COUNTY OF ~~MISS~~ ) SS.:

On this 5th day of June, 1956, before me personally

appeared John H. [unclear], ~~single person~~, to me known to be the person described in and who executed the foregoing instrument, and acknowledged to me that \_\_\_\_\_ he executed the same as his free act and deed.

My Commission expires:

June 1, 1957

  
\_\_\_\_\_  
(Hester Sawyers)  
Notary Public in and for Miss  
County,  
State of Miss

RATIFICATION AND JOINDER OF UNIT AGREEMENT

In consideration of the execution of the Unit Agreement for the Development and Operation of the Cox Canyon Unit Area located within the County of San Juan State of New Mexico in form approved on behalf of the Secretary of the Interior, the undersigned owners of lands or leases, or interests therein or royalties presently held or which may arise under existing option agreements, or other interests in production covered by said Unit Agreement hereby severally, each to the extent of his or her particular ownership or interest, as may appear, consent to the inclusion of said lands within the Unit Area therein defined, ratify, approve and adopt the terms of said Unit Agreement and any modifications thereof approved by the Secretary of the Interior or his duly authorized representative as applicable to said several lands and interests, agree that the term of any lease given by the undersigned or under which the undersigned claims an interest herein is extended and modified to the extent necessary to make the same conform to the terms of said Unit Agreement, agree that the drilling, development and producing requirements of all leases and other contracts in which their several rights and interests are created or defined shall be deemed fully performed by performance of the provisions of said Unit Agreement, and agree that payment for or delivery of (whichever may be required under prior agreements) oil and gas duly made at contract rates applied to the production allocated under said Unit Agreement to the particular lands to which such rights or interests do or shall apply, regardless of actual production therefrom, shall constitute full performance of all such obligations to the undersigned existing under such leases or other contracts.

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ADDRESS

3340 Charleston Street

Houston, Texas

Date: June 5, 1954

Date: \_\_\_\_\_

Approved and Consented to:  
PACIFIC NORTHWEST PIPELINE CORPORATION  
Unit Operation

BY [Signature]  
Vice President

[Signature]

SIGNATURE

[Signature]  
John H. [Name]

APPROVED AND CONSENTED TO:  
EL PASO NATURAL GAS COMPANY  
By [Signature] R.H.  
Vice President  
WORKING INTEREST OWNER

STATE OF  
COUNTY OF

} SS.:

On this \_\_\_\_\_ day of \_\_\_\_\_, 195\_\_\_\_, before me appeared

\_\_\_\_\_, to me personally known, who, being  
by me duly sworn, did say that he is the \_\_\_\_\_ President of \_\_\_\_\_  
and that the seal affixed to said instrument  
is the corporate seal of said corporation, and that said instrument was signed  
and sealed in behalf of said corporation by authority of its board of directors,  
and said \_\_\_\_\_ acknowledged said instrument to be  
the free act and deed of said corporation.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official  
seal the day and year in this certificate first above written.

My Commission expires:

\_\_\_\_\_

\_\_\_\_\_  
Notary Public in and for \_\_\_\_\_  
County,  
State of \_\_\_\_\_

STATE OF  
COUNTY OF

} SS.:

On this \_\_\_\_\_ day of \_\_\_\_\_, 195\_\_\_\_, before me appeared

\_\_\_\_\_ and \_\_\_\_\_  
his wife, to me known to be the persons described in and who executed the fore-  
going instrument, and acknowledged to me they executed the same as their free act  
and deed.

My Commission expires:

\_\_\_\_\_

\_\_\_\_\_  
Notary Public in and for \_\_\_\_\_  
County,  
State of \_\_\_\_\_

STATE OF TEXAS  
COUNTY OF HARRIS

} SS.:

On this 5th day of June, 1956, before me personally

appeared John H. Wynne, ~~a single person~~, to me known to be  
the person described in and who executed the foregoing instrument, and acknowledged  
to me that \_\_\_\_\_ he executed the same as his free act and deed.

My Commission expires:

June 1, 1957

*Hester Davenport*  
\_\_\_\_\_  
(Hester Davenport)  
Notary Public in and for HARRIS  
County,  
State of Texas



RATIFICATION AND JOINDER OF UNIT AGREEMENT

In consideration of the execution of the Unit Agreement for the Development and Operation of the Cox Canyon Unit Area located within the County of San Juan State of New Mexico in form approved on behalf of the Secretary of the Interior, the undersigned owners of lands or leases, or interests therein or royalties presently held or which may arise under existing option agreements, or other interests in production covered by said Unit Agreement hereby severally, each to the extent of his or her particular ownership or interest, as may appear, consent to the inclusion of said lands within the Unit Area therein defined, ratify, approve and adopt the terms of said Unit Agreement and any modifications thereof approved by the Secretary of the Interior or his duly authorized representative as applicable to said several lands and interests, agree that the term of any lease given by the undersigned or under which the undersigned claims an interest herein is extended and modified to the extent necessary to make the same conform to the terms of said Unit Agreement, agree that the drilling, development and producing requirements of all leases and other contracts in which their several rights and interests are created or defined shall be deemed fully performed by performance of the provisions of said Unit Agreement, and agree that payment for or delivery of (whichever may be required under prior agreements) oil and gas duly made at contract rates applied to the production allocated under said Unit Agreement to the particular lands to which such rights or interests do or shall apply, regardless of actual production therefrom, shall constitute full performance of all such obligations to the undersigned existing under such leases or other contracts.

This Ratification and Joinder of Unit Agreement may be executed in any number of counterparts with the same force and effect as if all parties had signed the same document and shall be binding upon all those who execute a counterpart hereof, regardless of whether or not it is executed by all other parties owning or claiming an interest in the lands affected hereby, and when so executed shall be binding upon the undersigned, his or her assigns or successors in interest.

ADDRESS

SIGNATURE

902 South Coast Life Building

TEXAS NATIONAL PETROLEUM COMPANY

Houston, Texas

By *L. C. Williams Jr.*

Date: \_\_\_\_\_

*Herbert E. ...*  
*...*

Date: \_\_\_\_\_

Approved and Consented to:  
PACIFIC NORTHWEST PIPELINE CORPORATION  
Unit Operator

BY *J. M. ...*  
Vice President

*[Handwritten initials]*

APPROVED AND CONSENTED TO:  
EL PASO NATURAL GAS COMPANY  
By *[Signature]* *RKH*  
Vice President  
WORKING INTEREST OWNER

STATE OF TEXAS )  
COUNTY OF HARRIS ) SS.:

On this 12th day of JUNE, 1956, before me appeared

L. C. OLDHAM, JR., to me personally known, who, being by me duly sworn, did say that he is the VICE President of TEXAS NATIONAL PETROLEUM CO. and that the seal affixed to said instrument is the corporate seal of said corporation, and that said instrument was signed and sealed in behalf of said corporation by authority of its board of directors, and said L. C. OLDHAM, JR. acknowledged said instrument to be the free act and deed of said corporation.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal the day and year in this certificate first above written.

My Commission expires:

JUNE 1, 1957

*Arattly Nichols*  
Notary Public in and for  
HARRIS County,  
State of TEXAS

STATE OF )  
COUNTY OF ) SS.:

On this \_\_\_\_\_ day of \_\_\_\_\_, 195\_\_\_\_, before me appeared

\_\_\_\_\_ and \_\_\_\_\_ his wife, to me known to be the persons described in and who executed the foregoing instrument, and acknowledged to me they executed the same as their free act and deed.

My Commission expires:

\_\_\_\_\_

\_\_\_\_\_  
Notary Public in and for \_\_\_\_\_  
County,  
State of \_\_\_\_\_

STATE OF )  
COUNTY OF ) SS.:

On this \_\_\_\_\_ day of \_\_\_\_\_, 195\_\_\_\_, before me personally

appeared \_\_\_\_\_, a single person, to me known to be the person described in and who executed the foregoing instrument, and acknowledged to me that \_\_\_\_\_ he executed the same as \_\_\_\_\_ free act and deed.

My Commission expires:

\_\_\_\_\_

\_\_\_\_\_  
Notary Public in and for \_\_\_\_\_  
County,  
State of \_\_\_\_\_

RATIFICATION AND JOINDER OF UNIT AGREEMENT

In consideration of the execution of the Unit Agreement for the Development and Operation of the Cox Canyon Unit Area located within the County of San Juan State of New Mexico in form approved on behalf of the Secretary of the Interior, the undersigned owners of lands or leases, or interests therein or royalties presently held or which may arise under existing option agreements, or other interests in production covered by said Unit Agreement hereby severally, each to the extent of his or her particular ownership or interest, as may appear, consent to the inclusion of said lands within the Unit Area therein defined, ratify, approve and adopt the terms of said Unit Agreement and any modifications thereof approved by the Secretary of the Interior or his duly authorized representative as applicable to said several lands and interests, agree that the term of any lease given by the undersigned or under which the undersigned claims an interest herein is extended and modified to the extent necessary to make the same conform to the terms of said Unit Agreement, agree that the drilling, development and producing requirements of all leases and other contracts in which their several rights and interests are created or defined shall be deemed fully performed by performance of the provisions of said Unit Agreement, and agree that payment for or delivery of (whichever may be required under prior agreements) oil and gas duly made at contract rates applied to the production allocated under said Unit Agreement to the particular lands to which such rights or interests do or shall apply, regardless of actual production therefrom, shall constitute full performance of all such obligations to the undersigned existing under such leases or other contracts.

This Ratification and Joinder of Unit Agreement may be executed in any number of counterparts with the same force and effect as if all parties had signed the same document and shall be binding upon all those who execute a counterpart hereof, regardless of whether or not it is executed by all other parties owning or claiming an interest in the lands affected hereby, and when so executed shall be binding upon the undersigned, his or her assigns or successors in interest.

ADDRESS

SIGNATURE

902 South Coast Life Building

TEXAS NATIONAL PETROLEUM COMPANY

Houston, Texas

By: [Signature]

Date: \_\_\_\_\_

[Signature]  
Assistant Secretary

\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

Date: \_\_\_\_\_

Approved and Consented to:  
PACIFIC NORTHWEST PIPELINE CORPORATION  
Unit Operator

BY

[Signature]  
Vice President

[Signature]

APPROVED AND CONSENTED TO:  
EL PASO PETROLEUM COMPANY  
By: [Signature]  
Vice President  
WORKING INTENT

STATE OF TEXAS }  
COUNTY OF HARRIS } SS.:

On this 12th day of JUNE, 1956, before me appeared

L. C. OLDHAM, JR., to me personally known, who, being  
by me duly sworn, did say that he is the VICE President of TEXAS NATIONAL  
PETROLEUM CO. and that the seal affixed to said instrument  
is the corporate seal of said corporation, and that said instrument was signed  
and sealed in behalf of said corporation by authority of its board of directors,  
and said L. C. OLDHAM, JR. acknowledged said instrument to be  
the free act and deed of said corporation.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official  
seal the day and year in this certificate first above written.

My Commission expires:

JUNE 1, 1957

*Joseph Nichols*  
Notary Public in and for HARRIS  
County,  
State of TEXAS

STATE OF }  
COUNTY OF } SS.:

On this \_\_\_\_\_ day of \_\_\_\_\_, 195\_\_\_\_, before me appeared

\_\_\_\_\_ and \_\_\_\_\_  
his wife, to me known to be the persons described in and who executed the fore-  
going instrument, and acknowledged to me they executed the same as their free act  
and deed.

My Commission expires:

\_\_\_\_\_  
Notary Public in and for \_\_\_\_\_  
County,  
State of \_\_\_\_\_

STATE OF }  
COUNTY OF } SS.:

On this \_\_\_\_\_ day of \_\_\_\_\_, 195\_\_\_\_, before me personally

appeared \_\_\_\_\_, a single person, to me known to be  
the person described in and who executed the foregoing instrument, and acknowledged  
to me that \_\_\_\_\_ he executed the same as \_\_\_\_\_ free act and deed.

My Commission expires:

\_\_\_\_\_  
Notary Public in and for \_\_\_\_\_  
County,  
State of \_\_\_\_\_

RATIFICATION AND JOINDER OF UNIT AGREEMENT

In consideration of the execution of the Unit Agreement for the Development and Operation of the Cox Canyon Unit Area located within the County of San Juan State of New Mexico in form approved on behalf of the Secretary of the Interior, the undersigned owners of lands or leases, or interests therein or royalties presently held or which may arise under existing option agreements, or other interests in production covered by said Unit Agreement hereby severally, each to the extent of his or her particular ownership or interest, as may appear, consent to the inclusion of said lands within the Unit Area therein defined, ratify, approve and adopt the terms of said Unit Agreement and any modifications thereof approved by the Secretary of the Interior or his duly authorized representative as applicable to said several lands and interests, agree that the term of any lease given by the undersigned or under which the undersigned claims an interest herein is extended and modified to the extent necessary to make the same conform to the terms of said Unit Agreement, agree that the drilling, development and producing requirements of all leases and other contracts in which their several rights and interests are created or defined shall be deemed fully performed by performance of the provisions of said Unit Agreement, and agree that payment for or delivery of (whichever may be required under prior agreements) oil and gas duly made at contract rates applied to the production allocated under said Unit Agreement to the particular lands to which such rights or interests do or shall apply, regardless of actual production therefrom, shall constitute full performance of all such obligations to the undersigned existing under such leases or other contracts.

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ADDRESS

SIGNATURE

5211 Briar Drive

Alma Beamon Anderson  
Alma Beamon Anderson

Houston 19, Texas

Date: June 11, 1956

5211 Briar Drive,

M. P. Anderson

Houston 19, Texas.

Date: June 11, 1956

Approved and Consented to:  
PACIFIC NORTHWEST PIPELINE CORPORATION  
Unit Operator

BY J. M. Clark  
Vice President

*[Handwritten initials]*

APPROVED AND CONSENTED TO:  
EL PASO NATURAL GAS COMPANY  
BY [Signature] *RAA*  
Vice President  
WORKING INTEREST COMPANY

STATE OF )  
COUNTY OF ) SS.:

On this \_\_\_\_\_ day of \_\_\_\_\_, 195\_\_\_\_, before me appeared

\_\_\_\_\_, to me personally known, who, being by me duly sworn, did say that he is the \_\_\_\_\_ President of \_\_\_\_\_ and that the seal affixed to said instrument is the corporate seal of said corporation, and that said instrument was signed and sealed in behalf of said corporation by authority of its board of directors, and said \_\_\_\_\_ acknowledged said instrument to be the free act and deed of said corporation.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal the day and year in this certificate first above written.

My Commission expires:

\_\_\_\_\_

\_\_\_\_\_  
Notary Public in and for \_\_\_\_\_  
County,  
State of \_\_\_\_\_

STATE OF TEXAS )  
COUNTY OF HARRIS ) SS.:

On this 11th day of June, 195<sup>6</sup>, before me appeared

M. P. Anderson and Alma Beamon Anderson his wife, to me known to be the persons described in and who executed the foregoing instrument, and acknowledged to me they executed the same as their free act and deed.

My Commission expires:

June 1, 1957

*Dorothy T. Branyan*  
Notary Public in and for Harris  
County,  
State of Texas

DOROTHY T. BRANYAN  
Notary Public, in and for Harris County, Texas

STATE OF )  
COUNTY OF ) SS.:

On this \_\_\_\_\_ day of \_\_\_\_\_, 195\_\_\_\_, before me personally

appeared \_\_\_\_\_, a single person, to me known to be the person described in and who executed the foregoing instrument, and acknowledged to me that \_\_\_\_\_ he executed the same as \_\_\_\_\_ free act and deed.

My Commission expires:

\_\_\_\_\_

\_\_\_\_\_  
Notary Public in and for \_\_\_\_\_  
County,  
State of \_\_\_\_\_

RATIFICATION AND JOINDER OF UNIT AGREEMENT

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ADDRESS

SIGNATURE

5211 Briar Drive  
Houston 19, Texas

Alma Beamon Anderson  
Alma Beamon Anderson

Date: June 11, 1956

5211 Briar Drive,  
Houston 19, Texas.

M. P. Anderson

Date: June 11, 1956

Approved and Consented to:  
PACIFIC NORTHWEST PIPELINE CORPORATION  
Unit Operator

BY J. M. Clark  
Vice President

APPROVED AND CONSENTED TO:  
EL PASO OIL & GAS COMPANY  
By [Signature]  
Vice President  
WORKING INTEREST OWNER

STATE OF \_\_\_\_\_ )  
COUNTY OF \_\_\_\_\_ ) SS.:

On this \_\_\_\_\_ day of \_\_\_\_\_, 195\_\_\_\_, before me appeared

\_\_\_\_\_, to me personally known, who, being by me duly sworn, did say that he is the \_\_\_\_\_ President of \_\_\_\_\_ and that the seal affixed to said instrument is the corporate seal of said corporation, and that said instrument was signed and sealed in behalf of said corporation by authority of its board of directors, and said \_\_\_\_\_ acknowledged said instrument to be the free act and deed of said corporation.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal the day and year in this certificate first above written.

My Commission expires:

\_\_\_\_\_

\_\_\_\_\_  
Notary Public in and for \_\_\_\_\_  
County,  
State of \_\_\_\_\_

STATE OF TEXAS )  
COUNTY OF HARRIS ) SS.:

On this 11th day of June, 195<sup>6</sup>, before me appeared

M. P. Anderson and Alma Beamon Anderson his wife, to me known to be the persons described in and who executed the foregoing instrument, and acknowledged to me they executed the same as their free act and deed.

My Commission expires:

June 1, 1957



*Brothy T. Branyan*  
Notary Public in and for Harris County,  
State of Texas

BROTHY T. BRANYAN  
in and for Harris County, Texas

STATE OF \_\_\_\_\_ )  
COUNTY OF \_\_\_\_\_ ) SS.:

On this \_\_\_\_\_ day of \_\_\_\_\_, 195\_\_\_\_, before me personally

appeared \_\_\_\_\_, a single person, to me known to be the person described in and who executed the foregoing instrument, and acknowledged to me that \_\_\_\_\_ he executed the same as \_\_\_\_\_ free act and deed.

My Commission expires:

\_\_\_\_\_

\_\_\_\_\_  
Notary Public in and for \_\_\_\_\_  
County,  
State of \_\_\_\_\_

RATIFICATION AND JOINDER OF UNIT AGREEMENT

In consideration of the execution of the Unit Agreement for the Development and Operation of the Cox Canyon Unit Area located within the County of San Juan State of New Mexico in form approved on behalf of the Secretary of the Interior, the undersigned owners of lands or leases, or interests therein or royalties presently held or which may arise under existing option agreements, or other interests in production covered by said Unit Agreement hereby severally, each to the extent of his or her particular ownership or interest, as may appear, consent to the inclusion of said lands within the Unit Area therein defined, ratify, approve and adopt the terms of said Unit Agreement and any modifications thereof approved by the Secretary of the Interior or his duly authorized representative as applicable to said several lands and interests, agree that the term of any lease given by the undersigned or under which the undersigned claims an interest herein is extended and modified to the extent necessary to make the same conform to the terms of said Unit Agreement, agree that the drilling, development and producing requirements of all leases and other contracts in which their several rights and interests are created or defined shall be deemed fully performed by performance of the provisions of said Unit Agreement, and agree that payment for or delivery of (whichever may be required under prior agreements) oil and gas duly made at contract rates applied to the production allocated under said Unit Agreement to the particular lands to which such rights or interests do or shall apply, regardless of actual production therefrom, shall constitute full performance of all such obligations to the undersigned existing under such leases or other contracts.

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ADDRESS

SIGNATURE

346 Esperson Building

*R. E. Beamon*  
R. E. Beamon

Houston, Texas

Date: JUN 1, 1966

Date: \_\_\_\_\_

Approved and Consented to:  
PACIFIC NORTHWEST PIPELINE CORPORATION  
Unit Operator

BY *J. M. Clark*  
Vice President

*[Handwritten initials]*

APPROVED AND CONSENTED TO:  
EL PASO NATURAL GAS COMPANY  
BY *[Signature]* *RKH*

STATE OF )  
 ) SS.:  
COUNTY OF )

On this \_\_\_\_\_ day of \_\_\_\_\_, 195\_\_\_\_, before me appeared

\_\_\_\_\_, to me personally known, who, being  
by me duly sworn, did say that he is the \_\_\_\_\_ President of \_\_\_\_\_  
and that the seal affixed to said instrument  
is the corporate seal of said corporation, and that said instrument was signed  
and sealed in behalf of said corporation by authority of its board of directors,  
and said \_\_\_\_\_ acknowledged said instrument to be  
the free act and deed of said corporation.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official  
seal the day and year in this certificate first above written.

My Commission expires:

\_\_\_\_\_

\_\_\_\_\_  
Notary Public in and for \_\_\_\_\_  
County,  
State of \_\_\_\_\_

STATE OF )  
 ) SS.:  
COUNTY OF )

On this \_\_\_\_\_ day of \_\_\_\_\_, 195\_\_\_\_, before me appeared

\_\_\_\_\_ and  
his wife, to me known to be the persons described in and who executed the fore-  
going instrument, and acknowledged to me they executed the same as their free act  
and deed.

My Commission expires:

\_\_\_\_\_

\_\_\_\_\_  
Notary Public in and for \_\_\_\_\_  
County,  
State of \_\_\_\_\_

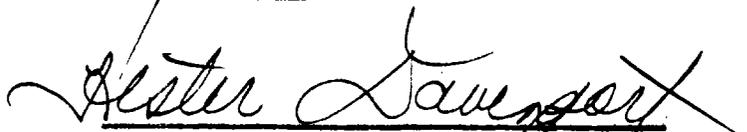
STATE OF TEXAS )  
 ) SS.:  
COUNTY OF HARRIS )

On this 10th day of June, 1956, before me personally

appeared As. L. Johnson, a single person, to me known to be  
the person described in and who executed the foregoing instrument, and acknowledged  
to me that he he executed the same as his free act and deed.

My Commission expires:

June 1, 1957

  
\_\_\_\_\_  
HESTER DAVENPORT  
Notary Public in and for HARRIS  
County,  
State of Texas

10-1

RATIFICATION AND JOINDER OF UNIT AGREEMENT

In consideration of the execution of the Unit Agreement for the Development and Operation of the Cox Canyon Unit Area located within the County of San Juan State of New Mexico in form approved on behalf of the Secretary of the Interior, the undersigned owners of lands or leases, or interests therein or royalties presently held or which may arise under existing option agreements, or other interests in production covered by said Unit Agreement hereby severally, each to the extent of his or her particular ownership or interest, as may appear, consent to the inclusion of said lands within the Unit Area therein defined, ratify, approve and adopt the terms of said Unit Agreement and any modifications thereof approved by the Secretary of the Interior or his duly authorized representative as applicable to said several lands and interests, agree that the term of any lease given by the undersigned or under which the undersigned claims an interest herein is extended and modified to the extent necessary to make the same conform to the terms of said Unit Agreement, agree that the drilling, development and producing requirements of all leases and other contracts in which their several rights and interests are created or defined shall be deemed fully performed by performance of the provisions of said Unit Agreement, and agree that payment for or delivery of (whichever may be required under prior agreements) oil and gas duly made at contract rates applied to the production allocated under said Unit Agreement to the particular lands to which such rights or interests do or shall apply, regardless of actual production therefrom, shall constitute full performance of all such obligations to the undersigned existing under such leases or other contracts.

This Ratification and Joinder of Unit Agreement may be executed in any number of counterparts with the same force and effect as if all parties had signed the same document and shall be binding upon all those who execute a counterpart hereof, regardless of whether or not it is executed by all other parties owning or claiming an interest in the lands affected hereby, and when so executed shall be binding upon the undersigned, his or her assigns or successors in interest.

ADDRESS

346 Esperson Building

Houston, Texas

Date: June 4, 1956

Date: \_\_\_\_\_

Approved and Consented to:  
PACIFIC NORTHWEST PIPELINE CORPORATION  
Unit Operator

BY

J. M. Clark  
Vice President

SIGNATURE

R. E. Beamon  
R. E. Beamon

APPROVED AND CONSENTED TO:  
EL PASO NATURAL GAS CO. COMPANY  
By [Signature]  
Vice President  
WORKING INTERESTS

STATE OF \_\_\_\_\_ }  
COUNTY OF \_\_\_\_\_ } SS.:

On this \_\_\_\_\_ day of \_\_\_\_\_, 195\_\_\_\_, before me appeared

\_\_\_\_\_, to me personally known, who, being  
by me duly sworn, did say that he is the \_\_\_\_\_ President of \_\_\_\_\_  
and that the seal affixed to said instrument  
is the corporate seal of said corporation, and that said instrument was signed  
and sealed in behalf of said corporation by authority of its board of directors,  
and said \_\_\_\_\_ acknowledged said instrument to be  
the free act and deed of said corporation.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official  
seal the day and year in this certificate first above written.

My Commission expires:

\_\_\_\_\_  
Notary Public in and for \_\_\_\_\_  
County,  
State of \_\_\_\_\_

STATE OF \_\_\_\_\_ }  
COUNTY OF \_\_\_\_\_ } SS.:

On this \_\_\_\_\_ day of \_\_\_\_\_, 195\_\_\_\_, before me appeared

\_\_\_\_\_ and \_\_\_\_\_  
his wife, to me known to be the persons described in and who executed the fore-  
going instrument, and acknowledged to me they executed the same as their free act  
and deed.

My Commission expires: \_\_\_\_\_

\_\_\_\_\_  
Notary Public in and for \_\_\_\_\_  
County,  
State of \_\_\_\_\_

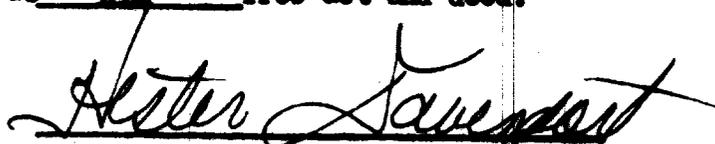
STATE OF TEXAS }  
COUNTY OF HARRIS } SS.:

On this 14th day of June, 1956, before me personally

appeared E. E. Beaman, a single person, to me known to be  
the person described in and who executed the foregoing instrument, and acknowledged  
to me that he executed the same as his free act and deed.

My Commission expires:

June 1, 1957

  
HESTER DAVENPORT  
Notary Public in and for \_\_\_\_\_  
County,  
State of Texas



RATIFICATION AND JOINDER OF UNIT AGREEMENT

In consideration of the execution of the Unit Agreement for the Development and Operation of the Cox Canyon Unit Area located within the County of San Juan State of New Mexico in form approved on behalf of the Secretary of the Interior, the undersigned owners of lands or leases, or interests therein or royalties presently held or which may arise under existing option agreements, or other interests in production covered by said Unit Agreement hereby severally, each to the extent of his or her particular ownership or interest, as may appear, consent to the inclusion of said lands within the Unit Area therein defined, ratify, approve and adopt the terms of said Unit Agreement and any modifications thereof approved by the Secretary of the Interior or his duly authorized representative as applicable to said several lands and interests, agree that the term of any lease given by the undersigned or under which the undersigned claims an interest herein is extended and modified to the extent necessary to make the same conform to the terms of said Unit Agreement, agree that the drilling, development and producing requirements of all leases and other contracts in which their several rights and interests are created or defined shall be deemed fully performed by performance of the provisions of said Unit Agreement, and agree that payment for or delivery of (whichever may be required under prior agreements) oil and gas duly made at contract rates applied to the production allocated under said Unit Agreement to the particular lands to which such rights or interests do or shall apply, regardless of actual production therefrom, shall constitute full performance of all such obligations to the undersigned existing under such leases or other contracts.

This Ratification and Joinder of Unit Agreement may be executed in any number of counterparts with the same force and effect as if all parties had signed the same document and shall be binding upon all those who execute a counterpart hereof, regardless of whether or not it is executed by all other parties owning or claiming an interest in the lands affected hereby, and when so executed shall be binding upon the undersigned, his or her assigns or successors in interest.

ADDRESS

SIGNATURE

1010 South Coast Life Building

PETRO MINERALS, INC.

Houston, Texas

By *[Signature]*

Vice President

Date: June 6, 1956

Date: \_\_\_\_\_

Approved and Consented to:  
PACIFIC NORTHWEST PIPELINE CORPORATION  
Unit Operator

BY *[Signature]*  
Vice President

*[Signature]*

APPROVED AND CONSENTED TO:  
EL PASO NATURAL GAS COMPANY  
By *[Signature]*  
Vice President  
REGIONS INTEREST COVER *RRH*



RATIFICATION AND JOINDER OF UNIT AGREEMENT

In consideration of the execution of the Unit Agreement for the Development and Operation of the Cox Canyon Unit Area located within the County of San Juan State of New Mexico in form approved on behalf of the Secretary of the Interior, the undersigned owners of lands or leases, or interests therein or royalties presently held or which may arise under existing option agreements, or other interests in production covered by said Unit Agreement hereby severally, each to the extent of his or her particular ownership or interest, as may appear, consent to the inclusion of said lands within the Unit Area therein defined, ratify, approve and adopt the terms of said Unit Agreement and any modifications thereof approved by the Secretary of the Interior ~~as~~ his duly authorized representative as applicable to said several lands and interests, agree that the term of any lease given by the undersigned or under which the undersigned claims an interest herein is extended and modified to the extent necessary to make the same conform to the terms of said Unit Agreement, agree that the drilling, development and producing requirements of all leases and other contracts in which their several rights and interests are created or defined shall be deemed fully performed by performance of the provisions of said Unit Agreement, and agree that payment for or delivery of (whichever may be required under prior agreements) oil and gas duly made at contract rates applied to the production allocated under said Unit Agreement to the particular lands to which such rights or interests do or shall apply, regardless of actual production therefrom, shall constitute full performance of all such obligations to the undersigned existing under such leases or other contracts.

This Ratification and Joinder of Unit Agreement may be executed in any number of counterparts with the same force and effect as if all parties had signed the same document and shall be binding upon all those who execute a counterpart hereof, regardless of whether or not it is executed by all other parties owning or claiming an interest in the lands affected hereby, and when so executed shall be binding upon the undersigned, his or her assigns or successors in interest.



ADDRESS

SIGNATURE

1010 South Coast Life Building

PETRO MINERALS, INC.

Houston, Texas

By *[Signature]*

Vice President

Date: June 6, 1956

Date: \_\_\_\_\_

Approved and Consented to:  
PACIFIC NORTHWEST PIPELINE CORPORATION  
Unit Operator

BY *[Signature]*  
Vice President

*[Handwritten initials]*

APPROVED AND CONSENTED TO:  
EL PASO NATURAL GAS COMPANY  
By *[Signature]*  
P. M. ...  
WESTINGHOUSE ...

*[Handwritten initials]*

STATE OF TEXAS }  
COUNTY OF HARRIS } SS.:

On this 6th day of June, 1956, before me appeared

L. C. GLENN, JR., to me personally known, who, being  
by me duly sworn, did say that he is the VICE President of PERMA-MATERIALS, INC.  
and that the seal affixed to said instrument  
is the corporate seal of said corporation, and that said instrument was signed  
and sealed in behalf of said corporation by authority of its board of directors,  
and said L. C. GLENN, JR. acknowledged said instrument to be  
the free act and deed of said corporation.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official  
seal this day and year in this certificate first above written.



Lyle E. Casbaugh  
Notary Public in and for Harris  
County,  
State of Texas

STATE OF }  
COUNTY OF } SS.:

On this \_\_\_\_\_ day of \_\_\_\_\_, 195\_\_\_\_, before me appeared

\_\_\_\_\_ and \_\_\_\_\_  
his wife, to me known to be the persons described in and who executed the fore-  
going instrument, and acknowledged to me they executed the same as their free act  
and deed.

My Commission expires:

\_\_\_\_\_  
Notary Public in and for \_\_\_\_\_  
County,  
State of \_\_\_\_\_

STATE OF }  
COUNTY OF } SS.:

On this \_\_\_\_\_ day of \_\_\_\_\_, 195\_\_\_\_, before me personally

appeared \_\_\_\_\_, a single person, to me known to be  
the person described in and who executed the foregoing instrument, and acknowledged  
to me that \_\_\_\_\_ he executed the same as \_\_\_\_\_ free act and deed.

My Commission expires:

\_\_\_\_\_  
Notary Public in and for \_\_\_\_\_  
County,  
State of \_\_\_\_\_

SCHEDULE OF LANDS  
SHOWING OWNERSHIP OF OIL AND GAS INTERESTS  
WITHIN COX CANYON UNIT AREA  
SAN JUAN COUNTY, NEW MEXICO

Tract No.	Description of Lands	Number of Acres	New Mexico Serial No. and Date of Lease	Basic Royalty and Percentage	Lessee of Record	ORR Owner and Percentage	Working Interest and Percentage
1	All in 32N-11W - State Lands NE $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 16-32N-11W	40	E-3087 11-16-49	1/8th - State of New Mexico	SO&G Co.	Edna May Hicks 5%	SO&G Co. - 1/2 Earl Jones - 1/2
2	NE $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 16-32N-11W	40	F-3089 11-16-49	1/8th - State of New Mexico	SO&G Co.	Otto Graf 5%	SO&G Co. - 1/2 Earl Jones - 1/2
3	NW $\frac{1}{4}$ NW $\frac{1}{4}$ ; SE $\frac{1}{4}$ NW $\frac{1}{4}$ ; SW $\frac{1}{4}$ NE $\frac{1}{4}$ ; W $\frac{1}{2}$ SE $\frac{1}{4}$ & SE $\frac{1}{4}$ SW $\frac{1}{4}$ 16-32N-11W.	240	E-3091 11-16-49	1/8th - State of New Mexico	SO&G Co.	Morris Levy-2 $\frac{1}{2}$ % (NW $\frac{1}{4}$ NW $\frac{1}{4}$ 16-32N-11W) Earl Jones - 1/2 Evelyn Robb Walker Individually & as Executrix of Estate of Charles Robb, deceased, 2 $\frac{1}{2}$ % (SE $\frac{1}{4}$ NW $\frac{1}{4}$ & SE $\frac{1}{4}$ SW $\frac{1}{4}$ Sec. 16-32N-11W.) Harry Wm. Gillinham-2 $\frac{1}{2}$ % (SW $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 16-32N-11W).	SO&G Co. - 1/2 Earl Jones - 1/2
4	NE $\frac{1}{4}$ SW $\frac{1}{4}$ & SE $\frac{1}{4}$ SW $\frac{1}{4}$ Sec. 16-32N-11W.	80	E-3092 11/16/49	1/8th - State of New Mexico	SO&G Co. & Earl Jones	Will Weimar & Naomi Weimar -5%	SO&G Co. - 1/2 Earl Jones - 1/2
5	NW $\frac{1}{4}$ SW $\frac{1}{4}$ & SE $\frac{1}{4}$ NE $\frac{1}{4}$ Sec. 16-32N-11W.	80	E-3093 11/16/49	1/8th - State of New Mexico	SO&G Co. & Earl Jones	Robert R. Horn & Earl A. Horn, Jointly - 5%	SO&G Co. - 1/2 Earl Jones - 1/2

(Continued on Page -2-)

D. L. V.

SCHEDULE OF LANDS  
 SHOOTING INTERESTS OF OIL AND GAS INTERESTS  
 TITHIN COX CANYON UNIT AREA  
 SAN JUAN COUNTY, NEW MEXICO

Tract No.	Description of Lands All in 32N-11W State Lands.	Number of Acres	New Mexico Serial No. and Date of Lease	Basic Royalty and Percentage	Lessee of Record	Oil Owner and Percentage	Working Interest and Percentage
6	NE $\frac{1}{4}$ NE $\frac{1}{4}$ 16-32N-11W.	40	E-3094 11-16-49	1/8 - State of New Mexico	SO&G Co.	Herbert O. Strong-2 $\frac{1}{2}$ %	SO&G Co. - 1/2 Earl Jones - 1/2
7	S $\frac{1}{4}$ NW $\frac{1}{4}$ 16-32N-11W.	40	E-3095 11/16/49	1/8 - State of New Mexico	SO&G Co. & Earl Jones	Mrs. Fred S. Weber-5%	SO&G Co. - 1/2 Earl Jones - 1/2
8	NW $\frac{1}{4}$ NE $\frac{1}{4}$ 16-32N-11W.	40	E-5387 7-10-51	1/8 - State of New Mexico	Pubco Devel- opment Company	None.	Pubco Development Company - All
9	SW $\frac{1}{4}$ SW $\frac{1}{4}$ 16-32N-11W.	40	E-5388 7-10-51	1/8 - State of New Mexico	The Atlantic-Hone. Refining Company		The Atlantic Refining Co.-All
<u>FEDERAL LANDS</u>							
10	Lots 1 & 2 & S $\frac{1}{2}$ SE $\frac{1}{4}$ Sec. 8; Lots 1,2,3,4 & S $\frac{1}{2}$ S $\frac{1}{4}$ Sec. 9; NE $\frac{1}{4}$ & E $\frac{1}{2}$ SE $\frac{1}{4}$ Section 20; All Section 21.	1384.60	New Mexico-#03189 2-1-48	United States- 12-1/2%	Dena Hiddle	Glover L. Outer & Jenna C. Suter- 1-1/2% Sunshine Roy. Co.-1-1/2%	SO&G Co. - 1/2 Earl Jones - 1/2

(Continued on page -3-)

"SCHEDULE OF LANDS  
SHOWING OWNERSHIP OF OIL AND GAS INTERESTS  
WITHIN COX CANYON UNIT AREA  
SAN JUAN COUNTY, NEW MEXICO

FEDERAL LANDS (Continued )

Tract No.	Description of Lands	Number of Acres	Application or Serial No. & Date of Lease.	Basic Royalty and Percentage	Lessee of Record	ORR Owner and Percentage	Working Interest and Percentage
11	Section 17: E $\frac{1}{2}$ & E $\frac{1}{2}$ W $\frac{1}{2}$	480	New Mexico-#03190 9/1/48	United States 12-1/2%	Dena Riddle	Ruby Griffin Holt, (now Johns)-1 $\frac{1}{2}$ %. Sunshine Royalty Company - 1 $\frac{1}{2}$ %	SO&J Co. - 1/2 Earl Jones - 1/2
12	N $\frac{1}{2}$ NW $\frac{1}{4}$ Sec. 28-32N-11W.	80	Santa Fe- #078231 2/1/48	United States -12-1/2%	Paul B. Horton *(See note below)	*(See below)	Delhi Oil Corporation- ALL

**\*NOTE:** RE- Santa Fe- #078321 - Lessee, Paul B. Horton - The Delhi Oil Corporation has an operating agreement with Mr. Horton, covering this lease, under which Mr. Horton retains an ORR of 1 $\frac{1}{2}$ % until \$25,000 per acre is paid out on 2,560 acres of the lands under this lease, then, the ORR interest is to be reduced to 1/2 of 1 $\frac{1}{2}$ %. Other owners of ORR interests are:

Helen Fields ..... 2 $\frac{1}{2}$ % ORR.  
The San Juan Oil Company of Dallas, Texas - 15% of 8/8 ORR interest on gas -  
20% of 8/8 ORR interest on oil -

except when gas production is less than 500,000 cubic feet of gas per day or 15 barrels of oil per day averaged on a monthly basis at which time the ORR interest would become a working interest.

(Continued on Page -4-)

SCHEDULE OF LANDS  
 SHOWING OWNERSHIP OF OIL AND GAS INTERESTS  
 WITHIN COX CANYON UNIT AREA  
 SAN JUAN COUNTY, NEW MEXICO

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

	<u>Number of Acres</u>	<u>Percentage of Unit Area</u>
<u>STATE LANDS</u>		
(Tracts 1 to 9, inclusive)	640.00	24.76205
<u>FEDERAL LANDS</u>		
(Tracts 10 to 12, inclusive)	1,944.60	75.23795
TOTALS - - - - -	2,584.60	100.00000

\*\*\*\*\*

**PACIFIC NORTHWEST PIPELINE CORPORATION**

PHONE 3-3547 • SIMMS BUILDING

ALBUQUERQUE, NEW MEXICO

January 17, 1956

Commissioner of Public Lands  
State of New Mexico  
Capitol Annex Building  
Santa Fe, New Mexico

*Bill*

Oil Conservation Commission  
State of New Mexico  
Capitol Annex Building  
Santa Fe, New Mexico

Re: Approval of Mesaverde Participating Area  
Cox Canyon Unit, I-Sec. 946  
San Juan County, New Mexico

Gentlemen:

I am enclosing two copies of the "Application for Approval of Mesaverde Participating Area for the Cox Canyon Unit, I-Sec. 946, San Juan County, New Mexico" which was approved by the Commissioner of Public Lands September 1, 1955, approved by the Oil Conservation Commission September 1, 1955 and approved by the Acting Director of the United States Geological Survey December 28, 1955. I am also enclosing two photostatic copies of the memorandum addressed to the Director requesting approval of the Mesaverde Participating Area for the Cox Canyon Unit showing the approval of the Acting Director thereon. The effective date of the Mesaverde Participating Area is July 20, 1953.

Copies of this letter and enclosures are being sent to all working interest owners in the Cox Canyon Unit.

Very truly yours,

PACIFIC NORTHWEST PIPELINE CORPORATION

*D. L. Anderson*  
Donald L. Anderson,  
Land Department

DLA:jcc  
Enclosures

Reply to:  
Unit Division

January 11, 1956

Pacific Northwest Pipeline Corporation  
Simms Building  
Albuquerque, New Mexico

Re: (Cox Canyon Unit )  
1955 Supplemental Plan  
of Development

Attention: Mr. Donald L. Anderson  
Land Department

Gentlemen:

We are enclosing approved copies of your 1955 Supplemental Plan of Development for the Cox Canyon Unit. We have in our file copies of letters of approval from both the United States Geological Survey and the New Mexico Oil Conservation Commission, but apparently we never received a copy of this Development Plan.

We mailed to you under letter of January 9, 1956, approved copies of your 1956 Plan of Development for this Unit.

Very truly yours,

E. S. WALKER  
Commissioner of Public Lands

MMR/m  
enc: 2

cc: USGS-Reswell  
OCC-Santa Fe

361  
January 9, 1956

Pacific Northwest Pipeline Corporation  
Simms Building  
Albuquerque, New Mexico

*file*

Attention: Mr. R. N. Richey

Re: Cox Canyon Unit Area )  
San Juan County  
1956 Plan of Development

Gentlemen:

This is to advise you that the Plan of Development for the Cox Canyon Unit Area, dated December 30, 1955, has this date been approved by the Commissioner of Public Lands, subject to like approval by the United States Geological Survey and by the New Mexico Oil Conservation Commission.

One approved copy of the Plan of Development is returned herewith.

Very truly yours,

E. S. WALKER  
Commissioner of Public Lands

MMR/m  
enc: 1

cc: USGS-Roswell  
CCC-Santa Fe



IN REPLY REFER TO:

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

P. O. Box 6721  
Roswell, New Mexico

February 10, 1956

Pacific Northwest Pipeline Corporation  
Sims Building  
Albuquerque, New Mexico

Attention: Mr. R. K. Richey

Gentlemen:

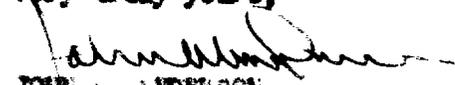
Your plan of development dated December 30, 1955, for the Cox Canyon Unit area, New Mexico, for the calendar year 1956 has been approved on this date subject to line approval by the appropriate State of New Mexico officials and subject to the following provisions:

1. The NE $\frac{1}{4}$  sec. 20, T. 32 N., R. 11 W., lying within the Cox Canyon unit area shall be communitized with the NW $\frac{1}{4}$  sec. 20, T. 32 N., R. 11 W., lying outside the unit area to form a 320-acre drilling block.
2. Approval shall be obtained from the New Mexico Oil Conservation Commission for the establishment of two unorthodox spacing units consisting of (a) the SE $\frac{1}{4}$  sec. 8 and the NE $\frac{1}{4}$  sec. 17, T. 32 N., R. 11 W., and (b) the E $\frac{1}{2}$  sec. 17, and the W $\frac{1}{2}$  sec. 17, T. 32 N., R. 11 W.

The locations given me informally by Mr. Donald L. Anderson of your office on February 7 for the wells to be drilled on the non-standard gas proration units listed in the foregoing appear satisfactory. The well on unit (a) is to be 1389 feet from the south line and 1309 feet from the east line of sec. 8. The well on unit (b) is to be 1540 feet from the north line and 2430 feet from the east line of sec. 17.

One copy of the approved plan is enclosed.

Very truly yours,

  
JOHN A. ANDERSON  
Regional Oil & Gas Supervisor

Enclosure

Copy to: Wash (w/copy of plan)  
F'ton (w/copy of Plan)  
Pacific NW Pipeline (Ltr. only)  
State Comm. of Public Lands (Ltr. only)  
Oil Cons. Comm, Santa Fe (Ltr. only)

OIL CONSERVATION COMMISSION

P. O. BOX 871

SANTA FE, NEW MEXICO

January 5, 1956

Pacific Northwest Pipeline Corporation  
Simms Building  
Albuquerque, New Mexico

*file*

Attention: Mr. R. N. Richey

Re: (Cox Canyon Unit Area)  
San Juan County, New Mexico  
1956 Plan of Development

Gentlemen:

This is to advise that the Plan of Development for the Cox Canyon Unit Area, dated December 30, 1955, has this date been approved by the New Mexico Oil Conservation Commission, subject to like approval by the United States Geological Survey and by the Commissioner of Public Lands of the State of New Mexico.

The approval is also subject to the following provisions:

1. That the NE/4 of Section 20, Township 32 North, Range 11 West, which is within the Cox Canyon Unit Area, be communitized with the NW/4 of Section 20, Township 32 North, Range 11 West, which is outside the unit area, thus forming a N/2 Section 20, Township 32 North, Range 11 West drilling block consisting of 320 acres.
2. That unorthodox spacing units consisting of approximately 320 acres each be established for the two wells to be drilled in the following described acreage: SE/4 Section 8; E/2, E/2 W/4 Section 17, Township 32 North

C  
O  
P  
Y

-2-  
January 6, 1956

Range 11 West, consisting of 648.20 acres, more or less. Application for an approval of these unorthodox spacing units shall be made in accordance with the Rules and Regulations of the New Mexico Oil Conservation Commission. It is suggested that the two unorthodox spacing units consist of the following described acreage:

(a) SE/4 Section 8, E/2 E/2 Section 17,  
Township 32 North, Range 11 West.

(b) E/2 W/2 Section 17, W/2 E/2 Section  
17, Township 32 North, Range 11 West.

One approved copy of the Plan of Development is returned herewith.

Very truly yours,

W. B. Macey  
Secretary-Director

WBM:jh

cc: U. S. Geological Survey, Roswell  
Commissioner of Public Lands, Santa Fe

C  
O  
P  
Y

# PACIFIC NORTHWEST PIPELINE CORPORATION

PHONE 3-3547 • SIMMS BUILDING

ALBUQUERQUE, NEW MEXICO

December 30, 1955

Re: Cox Canyon Unit Area,  
San Juan County, New  
Mexico. PLAN OF DEVELOPMENT FOR CALENDAR  
YEAR 1956.

Supervisor,  
United States Geological Survey  
Department of the Interior  
Roswell, New Mexico.

Commissioner of Public Lands  
of the State of New Mexico  
Capitol Annex Building  
Santa Fe, New Mexico.

Oil Conservation Commission  
of the State of New Mexico  
Capitol Annex Building  
Santa Fe, New Mexico.

Gentlemen:

In compliance with Section 10 of the Cox Canyon Unit Agreement, Pacific Northwest Pipeline Corporation, as Unit Operator, is submitting this Plan of Development providing for the complete development of the Cox Canyon Unit Area during the calendar year 1956.

The first well is proposed for the NE $\frac{1}{4}$  Sec. 20, T 32N, R 11W by communitizing the NE $\frac{1}{4}$  Sec. 20, T 32N, R 11W, which is within the Cox Canyon Unit Area, with the NW $\frac{1}{4}$  Sec. 20, T 32N, R 11W, which is outside the Unit Area, and thus forming a N $\frac{1}{2}$  Sec. 20, T 32N, R 11W drilling block consisting of 320.00 acres.

Prior to drilling the second and third wells a request will be made to the New Mexico Oil Conservation Commission for unorthodox spacing units consisting of approximately 320.00 acres. The two wells will be located upon acreage described as SE $\frac{1}{4}$  Sec. 8; E $\frac{1}{2}$ , E $\frac{1}{2}$ W $\frac{1}{2}$  Sec. 17, T 32N, R 11W, consisting of 648.20 acres.

The above wells will be drilled to intermediate casing point with conventional hydraulic rotary tools and the pay section will be drilled with gas tools. After running production casing through the pay formation, the gas sands will be selectively perforated and fraced.

Re: Cox Canyon Unit Area

-2-

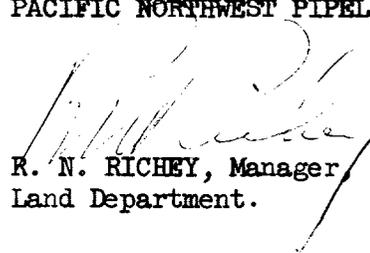
December 30, 1955

If this development program is acceptable, please signify your approval in the space provided below and return an approved copy to Pacific Northwest Pipeline Corporation.

Copies of this drilling program are being sent to the Working Interest Owners shown on the attached sheet

Very truly yours,

PACIFIC NORTHWEST PIPELINE CORPORATION

  
R. N. RICHEY, Manager  
Land Department.

RNR:DNC:gm

APPROVED: \_\_\_\_\_ DATE: \_\_\_\_\_  
Supervisor, United States Geological Survey

Subject to like approval by the appropriate State officials.

APPROVED: \_\_\_\_\_ DATE: \_\_\_\_\_  
Commissioner of Public Lands

Subject to like approval by the U.S.G.S. and Oil Conservation Commission.

APPROVED: W B Macey \_\_\_\_\_ DATE: \_\_\_\_\_  
Oil Conservation Commission

Subject to like approval by the U.S.G.S. and Commissioner of Public Lands.

COX CANYON UNIT

WORKING INTEREST OWNERS

El Paso Natural Gas Company  
P. O. Box 1492  
El Paso, Texas.

Attention: Mr. R. L. Hamblin.

Sinclair Oil & Gas Company  
P. O. Box 4005  
Albuquerque, New Mexico.  
Attention: Mr. A. A. Keonig.

Colorado Oil & Gas Corporation  
Denver Club Building  
Denver, Colorado.

CIL CONSERVATION COMMISSION

P. O. BOX 871

SANTA FE, NEW MEXICO

January 5, 1956

Pacific Northwest Pipeline Corporation  
Simms Building  
Albuquerque, New Mexico

Attention: Mr. R. N. Richey

Re: Cox Canyon Unit Area  
San Juan County, New Mexico  
1956 Plan of Development

Gentlemen:

This is to advise that the Plan of Development for the Cox Canyon Unit Area, dated December 30, 1955, has this date been approved by the New Mexico Oil Conservation Commission, subject to like approval by the United States Geological Survey and by the Commissioner of Public Lands of the State of New Mexico.

The approval is also subject to the following provisions:

1. That the NE/4 of Section 20, Township 32 North, Range 11 West, which is within the Cox Canyon Unit Area, be communitized with the NW/4 of Section 20, Township 32 North, Range 11 West, which is outside the unit area, thus forming a N/2 Section 20, Township 32 North, Range 11 West drilling block consisting of 320 acres.
2. That unorthodox spacing units consisting of approximately 320 acres each be established for the two wells to be drilled in the following described acreage: SE/4 Section 8; E/2, E/2 W/2 Section 17, Township 32 North

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-2-  
January 6, 1956

Range 11 West, consisting of 648.20 acres, more or less. Application for an approval of these unorthodox spacing units shall be made in accordance with the Rules and Regulations of the New Mexico Oil Conservation Commission. It is suggested that the two unorthodox spacing units consist of the following described acreage:

(a) SE/4 Section 8, E/2 E/2 Section 17,  
Township 32 North, Range 11 West.

(b) E/2 W/4 Section 17, W/2 E/2 Section  
17, Township 32 North, Range 11 West.

One approved copy of the Plan of Development is returned  
herewith.

Very truly yours,

W. B. Macey  
Secretary-Director

WBM:jh

cc: U. S. Geological Survey Roswell  
Commissioner of Public Lands, Santa Fe

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OIL CONSERVATION COMMISSION

P. O. BOX 871

SANTA FE, NEW MEXICO

# 341

October 18, 1955

file

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El Paso Natural Gas Company  
P. O. Box 1492  
El Paso, Texas

Attention: Mr. T. W. Bittick

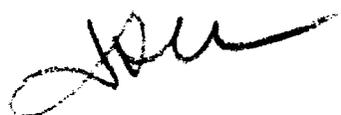
Re: **Communitization Agreement  
W/2 Sec. 28, T-32N, R-11W  
San Juan County, New Mexico**

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Fields No. 5 Communitization Agreement, covering the W/2 of Section 28, Township 32 North, Range 11 West, San Juan County, New Mexico.

80 acres included in the communitized area lie within the boundaries of the Cox Canyon Unit Agreement, and the Cox Canyon Unit, by virtue of approval of the communitization by Pacific Northwest Pipeline Corporation, Unit Operator, shall have a 25% share in the communitized area and the well drilled thereon.

Nine approved copies of the communitization are enclosed herewith.



Very truly yours,

W. B. Macey  
Secretary-Director

WBM:jh  
cc: USGS, Roswell  
Commissioner of Public Lands  
Santa Fe, New Mexico

encls.

# El Paso Natural Gas Company

El Paso, Texas

October 11, 1955

Mr. W. B. Macy  
Oil Conservation Commission  
of the State of New Mexico  
Capitol Annex Building  
Santa Fe, New Mexico

Dear Sir:

Please find enclosed for approval and execution by the Oil Conservation Commission nine (9) fully executed copies of a Communitization Agreement covering the Fields #5 well, to be located in the W/2 of Section 28, Township 32 North, Range 11 West, N.M.P.M. 80 acres of this proposed communitized tract are located in the Cox Canyon Unit and therefore, Pacific Northwest Pipeline Corporation, as Unit Operator of the Cox Canyon Unit, has executed the Communitization Agreement.

Will you please return nine (9) approved copies of this agreement to us for further handling. An unexecuted copy is enclosed for your files, and a fully executed and approved copy will be furnished to you as soon as one is available.

Very truly yours,



T. W. Bittick  
Area Landman  
Lease Department

TWB:pb  
Encls.: 10  
NM 1067

**COMMUNITIZATION AGREEMENT**  
**Fields #5**

THIS AGREEMENT, entered into as of the 1st day of March, 1955, by and between the parties subscribing, ratifying or consenting hereto, such parties being hereinafter referred to as "parties hereto",

W I T N E S S E T H:

WHEREAS, the Act of February 25, 1920, 41 Stat. 437, as amended by the Act of August 8, 1946, 60 Stat. 950, 30 U.S.C., Secs. 181 et seq., authorizes communitization or drilling agreements communitizing or pooling a federal oil and gas lease, or any portion thereof, with other lands, whether or not owned by the United States, when separate tracts under such federal lease cannot be independently developed and operated in conformity with an established well-spacing program for the field or area and such communitization or pooling is determined to be in the public interest; and

WHEREAS, Article 8-1138 of the New Mexico Statutes (Laws 1943, ch. 88, sec. 1, page 146) provides that for the purpose of more properly conserving the oil and gas resources of the State of New Mexico, the Commissioner of Public Lands may consent to and approve the development or operation of State Lands under Agreements made by Lessees of State Lands, jointly or severally, with other Lessees of State Lands; and

WHEREAS, the parties hereto own working, royalty or other leasehold interests or operating rights under the oil and gas leases and lands subject to this agreement which cannot be independently developed and operated in conformity with the well-spacing program established for the field or area in which said lands are located; and

WHEREAS, Paul B. Horton is the present owner and holder of record of that certain United States Oil and Gas Lease, bearing Serial Number NM 010989, formerly a part of SF 078231, executed in favor of Helen Fields, as Lessee, under date of February 1, 1948, by the United States of America, as Lessor, and embracing among other lands the following described land in San Juan County, New Mexico:

Township 32 North, Range 11 West, N.M.P.M.  
Section 28: S/2 NW/4, SW/4  
Containing 240.00 acres, more or less; and

WHEREAS, the above tract is not committed to any Unit Agreement; and

WHEREAS, Paul B. Horton is the present owner and holder of record of that certain United States Oil and Gas Lease, bearing Serial Number SF 078231, executed in favor of Helen Fields, as Lessee, under date of February 1, 1948, by the United States of America, as Lessor, and embracing the following described land in San Juan County, New Mexico:

Township 32 North, Range 11 West, N.M.P.M.  
Section 28: N/2 NW/4  
Containing 80.00 acres, more or less; and

WHEREAS, the above described tract is committed to the Cox Canyon Unit Agreement, I Sec. No. 946, approved and effective June 12, 1952; and

WHEREAS, by Assignment of Operating Agreement from Delhi Oil Corporation dated March 1, 1952, and approved by the Bureau of Land Management, May 29, 1952, El Paso Natural Gas Company is the present owner of all operating rights in, to and under the above described leases, insofar as they cover all gas rights down to and including the Mesaverde formation; and

WHEREAS, it is the interest or desire of El Paso Natural Gas Company to drill or cause to be drilled, a well on the lease NM 010989 in the SW/4 of Section 28, Township 32 North, Range 11 West, N.M.P.M., land not committed to any Unit Agreement; and

WHEREAS, the Cox Canyon Unit Agreement provides that the Unit Operator shall take appropriate and adequate measures to prevent drainage of unitized substances from unitized land by wells on land not subject to the respective unit agreement; and

WHEREAS, the parties hereto desire to communitize and pool their respective mineral interests in lands subject to this agreement for the purpose of developing and producing dry gas and associated liquid hydrocarbons in accordance with the terms and conditions of this agreement, and to prevent drainage of unitized substances;

NOW, THEREFORE, in consideration of the premises and the mutual advantages to the parties hereto, it is mutually covenanted and agreed by and between the parties hereto as follows:

1. The lands covered by this agreement (hereinafter referred to as "communitized area") are described as follows:

Township 32 North, Range 11 West, N.M.P.M.  
Section 28: W/2  
Containing 320.00 acres, more or less,

and this Agreement shall extend to and include all formations above the base of the Mesaverde formation underlying said lands and the dry gas and associated liquid hydrocarbons (hereinafter referred to as "communitized substances") producible from such formations.

2. El Paso Natural Gas Company shall be the operator of the communitized area.

3. All matters of operation shall be governed by the operator under and pursuant to the terms and provisions of this agreement. A successor operator may be designated by the owners of the working interest in the communitized area and four (4) executed copies of a designation of successor operator shall be filed with the Oil and Gas

Supervisor.

4. Operator shall furnish the Secretary of the Interior, or his authorized representative, with a log and history of any well drilled on the communitized area, monthly reports of operations, statements of gas sales and royalties and such other reports as are deemed necessary to compute monthly the royalty due the United States, as specified in the applicable oil and gas operating regulations.

5. In connection with the performance of work under this agreement, the operator agrees not to discriminate against any employee or applicant for employment because of race, religion, color, or national origin. The aforesaid provision shall include, but not be limited to, the following: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising, layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The operator agrees to post hereafter in conspicuous places, available for employees and applicants for employment, notices to be provided by the contracting officer setting forth the provisions of the nondiscrimination clause. The operator agrees to insert the foregoing provision in all subcontracts hereunder, except subcontracts for standard commercial supplies or raw materials.

6. The communitized area shall be developed and operated as an entirety with the understanding and agreement between the parties hereto that all communitized substances produced therefrom shall be allocated among the leaseholds comprising said area in the proportion that the acreage interest of each leasehold bears to the entire acreage interest committed to this Agreement.

7. The royalties payable on communitized substances allocated to the individual leases comprising the communitized area and the rentals provided for in said leases shall be determined and paid on the basis prescribed in each of the individual leases. Payment of rentals under the terms of leases subject to this Agreement shall not be affected by this Agreement except as provided for under the terms and provisions of said leases or as may herein be otherwise provided. Except as herein modified and changed, the oil and gas leases subject to this agreement shall remain in full force and effect as originally made and issued.

8. There shall be no obligation on the lessees to offset any dry gas well or wells completed in the same formations as covered by this agreement on separate component tracts into which the communitized area is now or may hereafter be divided, nor shall any lessee be required to measure separately communitized substances by reason of the diverse ownership thereof, but the lessees hereto shall not be released from their obligation to protect

said communitized area, from drainage of communitized substances by a well or wells which may be drilled offsetting said area.

9. The commencement, completion, continued operation or production of a well or wells for communitized substances on the communitized area shall be construed and considered as the commencement, completion, continued operation or production on each and all of the lands within and comprising said communitized area, and operations or production pursuant to this agreement shall be deemed to be operations or production as to each lease committed hereto.

10. Production of communitized substances and disposal thereof shall be in conformity with allocation, allotments and quotas made or fixed by any duly authorized person or regulatory body under applicable Federal or State statutes. This Agreement shall be subject to all applicable Federal and State laws or executive orders, rules and regulations, and any party hereto shall suffer a forfeiture or be liable in damages for failures to comply with any of the provisions of this Agreement if such compliance is prevented by, or if such failure results from, compliance with any such laws, orders, rules or regulations.

11. This Agreement shall be effective as of the date hereof upon execution by the necessary parties, notwithstanding the date of execution, and upon approval by the Secretary of the Interior, or his duly authorized representative, and shall remain in force and effect for a period of two (2) years and so long thereafter as communitized substances are produced from the communitized area in paying quantities; provided, that prior to production in paying quantities from the communitized area and upon fulfillment of all requirements of the Secretary of the Interior, or his duly authorized representative, with respect to any dry hole or abandoned well, this Agreement may be terminated at any time by mutual agreement of the parties hereto.

12. It is agreed between the parties hereto that the Secretary of the Interior, or his duly authorized representative, shall have the right of supervision over all operations within the communitized area to the same extent and degree as provided in the oil and gas leases under which the United States is lessor and in the applicable oil and gas regulations of the Department of the Interior.

13. The covenants herein shall be construed to be covenants running with the land with respect to the communitized interests of the parties hereto and their successors in interest until this Agreement terminates, and any grant, transfer or conveyance of any such land or interest subject hereto, whether voluntary or not, shall be and hereby is conditioned upon the assumption of all obligations hereunder by the grantee, transferee

or other successor in interest, and as to Federal land shall be subject to approval by the Secretary of the Interior.

14. This Agreement shall be subject to the consent and approval of the Commissioner of Public Lands of the State of New Mexico, and the Oil Conservation Commission of the State of New Mexico.

15. This Agreement shall be binding upon the parties hereto and shall extend to and be binding upon their respective heirs, executors, administrators, successors and assignees.

16. This Agreement may be executed in any number of counterparts, no one of which needs to be executed by all parties, or may be ratified or consented to by separate instrument, in writing, specifically referring hereto, and shall be binding upon all parties who have executed such a counterpart, ratification or consent hereto with the same force and effect as if all parties had signed the same document.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement on the day and year hereinabove written.

ATTEST:

EL PASO NATURAL GAS COMPANY

\_\_\_\_\_  
Assistant Secretary

By \_\_\_\_\_  
Vice President

ATTEST:

PACIFIC NORTHWEST PIPELINE CORPORATION

\_\_\_\_\_  
Assistant Secretary

By \_\_\_\_\_  
Vice President

\_\_\_\_\_  
Paul B. Horton

\_\_\_\_\_  
Susan Diggle Horton

I certify that the foregoing Communitization Agreement was filed in my office on the \_\_\_\_\_ day of \_\_\_\_\_, 1955, and approved by me the \_\_\_\_\_ day of \_\_\_\_\_, 1955.

\_\_\_\_\_  
Commissioner of Public Lands of  
the State of New Mexico

The foregoing Communitization Agreement was filed in the office of the Oil Conservation Commission of the State of New Mexico on the 13 day of October, 1955, and approved by the Commission on the 18 day of October, 1955.

orig/ol WBrue  
Secretary  
Oil Conservation Commission of the  
State of New Mexico

STATE OF TEXAS )  
 ) ss  
COUNTY OF EL PASO )

On this \_\_\_\_\_ day of \_\_\_\_\_, 1955, before me appeared H. F. Steen, to me personally known, who, being by me duly sworn, did say that he is the Vice President of EL PASO NATURAL GAS COMPANY, and that the seal affixed to the foregoing instrument is the corporate seal of said corporation, and that said instrument was signed and sealed in behalf of said corporation by authority of its Board of Directors, and said H. F. Steen acknowledged said instrument to be the free act and deed of said corporation.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal the day and year in this certificate first above written.

My commission expires:

\_\_\_\_\_  
Notary Public, County of El Paso,  
State of Texas.

STATE OF \_\_\_\_\_ )  
 ) ss  
COUNTY OF \_\_\_\_\_ )

On this \_\_\_\_\_ day of \_\_\_\_\_, 1955, before me appeared \_\_\_\_\_, to me personally known, who, being by me duly sworn, did say that he is the Vice President of PACIFIC NORTHWEST PIPELINE CORPORATION, and that the seal affixed to the foregoing instrument is the corporate seal of said corporation, and that said instrument was signed and sealed in behalf of said corporation by authority of its Board of Directors, and said \_\_\_\_\_ acknowledged said instrument to be the free act and deed of said corporation.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal the day and year in this certificate first above written.

My commission expires:

\_\_\_\_\_  
Notary Public, County of \_\_\_\_\_  
State of \_\_\_\_\_

STATE OF TEXAS )  
 ) ss  
COUNTY OF DALLAS )

On this \_\_\_\_\_ day of \_\_\_\_\_, 1955, before me appeared Paul B. Horton and Susan Diggle Horton, his wife, to me known to be the persons described in and who executed the foregoing instrument, and acknowledged to me they executed the same as their free act and deed.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal the day and year in this certificate first above written.

My commission expires:

\_\_\_\_\_  
Notary Public, County of Dallas,  
State of Texas.

October 7, 1955

El Paso Natural Gas Company  
El Paso, Texas

Attention: T. W. Bittick  
Area Landman  
Lease Department

Gentlemen:

Please find enclosed nine approved copies of a Communitization Agreement covering the Fields #5 well, to be located in the W/2 of Section 28, Township 32N-Range 11 West, in which there is no state acreage but 80 acres in the W/2 of Section 28 is included within the (Cox Canyon Unit.)

According to Mr. W. B. Macy, Director of the Oil Conservation Commission, it is understood that Pacific Northwest Pipeline Corporation as Unit operator, plans to enter into this Communitization, so that the unit shall have a 25% share in the well to be drilled on this Communitization.

Very truly yours,

E. S. WALKER  
Commissioner of Public Lands

Encl.  
cc: OCC-Santa Fe  
UES-Reswell

MMR

# 361

September 29, 1955

C

Pacific Northwest Pipeline Corporation  
Simms Building  
Albuquerque, New Mexico

O

Attention: Mr. R. N. Richey

Re: Cox Canyon Unit  
San Juan County, New Mexico  
1955 Supplemental Plan of  
Development

P

Gentlemen:

This is to advise that the 1955 supplemental Plan of Development for the Cox Canyon Unit, dated September 19, 1955, has this date been approved by the New Mexico Oil Conservation Commission subject to like approval by the United States Geological Survey and by the Commissioner of Public Lands of the State of New Mexico.

Y

It is understood that Pacific Northwest Pipeline Corporation as unit operator, plans to enter into a communitization agreement for the development of the W/2 of Section 28, Township 32 North, Range 11 West, the N/2 of the NW/4 of said Section 28 being within the Cox Canyon Unit Area, so that the unit shall have a 25% share in the well to be drilled thereon.

One approved copy of the plan is returned herewith.

Very truly yours,

W. B. Macey  
Secretary-Director

WBM:jh

cc: ~~U.S.~~ Geological Survey, Roswell  
State Land Office, Santa Fe

# PACIFIC NORTHWEST PIPELINE CORPORATION

PHONE 3-3547 • SIMMS BUILDING

ALBUQUERQUE, NEW MEXICO

September 19, 1955

Re: Supplemental Plan of Development,  
Cox Canyon Unit I-Sec. 940, San  
Juan County, New Mexico.

Regional Supervisor  
Department of the Interior  
United States Geological Survey  
Roswell, New Mexico.

Commissioner of Public Lands  
State of New Mexico  
Capitol Annex Building  
Santa Fe, New Mexico.

Oil Conservation Commission  
State of New Mexico  
Capitol Annex Building  
Santa Fe, New Mexico.

Gentlemen:

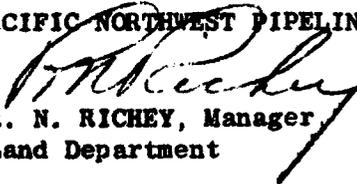
Pacific Northwest Pipeline Corporation, as Unit Operator, submits for your approval a Supplemental Plan of Development for 1955 for the Cox Canyon Unit, San Juan County, New Mexico.

In addition to the four wells included in the approved Plan of Development for 1955 filed August 2, 1955 with the United States Geological Survey, Commissioner of Public Lands and the Oil Conservation Commission of the State of New Mexico, Pacific Northwest Pipeline Corporation as Unit Operator, plans to enter into a Communitization Agreement to provide for the development of the N $\frac{1}{2}$  NW $\frac{1}{4}$  Sec. 28 T 32N R 11W. The communitized acreage described as the W $\frac{1}{2}$  of Sec. 28 T 32N R 11W will be owned 75% by El Paso Natural Gas Company and 25% by Pacific Northwest Pipeline Corporation, as Unit Operator for the Cox Canyon Unit

Your approval of this Supplemental Plan of Development for the remainder of the calendar year 1955 is respectfully requested.

Very truly yours,

PACIFIC NORTHWEST PIPELINE CORPORATION

  
R. N. RICHEY, Manager,  
Land Department

RNR:DNC:gm

September 19 1955

Your approval for the Cox Canyon Plan of Development for the Supplemental Unit.

APPROVED: \_\_\_\_\_ DATE: \_\_\_\_\_  
Supervisor, United States Geological Survey

Subject to like approval by the appropriate State officials.

APPROVED: \_\_\_\_\_ DATE: \_\_\_\_\_  
Commissioner of Public Lands

Subject to like approval by the U.S.G.S. and Oil Conservation Commission.

APPROVED: W B Macey DATE: 9/29/55  
Oil Conservation Commission

Subject to like approval by the U.S.G.S and Commission of Public Lands.



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

P. O. Box 6721  
Roswell, New Mexico

September 27, 1955

Pacific Northwest Pipeline Cor.,  
Simms Building  
Albuquerque, New Mexico

Gentlemen:

The supplemental plan of development dated September 19, 1955, for the Cox Canyon unit area, New Mexico, I-sec. No. 946, has been approved on this date, subject to like approval by the appropriate State officials.

Under the supplemental plan it is proposed to committize the W $\frac{1}{4}$  sec. 28, T. 32 N., R. 11 W., and drill a well thereon. The N $\frac{1}{4}$ W $\frac{1}{4}$  of said sec. 28 is within the Cox Canyon unit area.

One approved copy of said plan is returned herewith.

Very truly yours,

(Orig. Sgd.) R. E. CAMPBELL

R. E. CAMPBELL  
Acting Oil and Gas Supervisor

Enclosure

Copy to: Cons. Div., Dept. (w/1 copy of plan)  
Farmington (w/1 copy of plan)  
MOCC, Santa Fe (ltr only) ✓

September 21, 1955

Pacific Northwest Pipeline Corporation  
720 Simms Building  
Albuquerque, New Mexico

Re: Application for Approval  
of Mesasverde Participating  
Area for the Cox Canyon Unit

Gentlemen:

We are enclosing original copy of the above designated instrument, which was handed to us by the Oil Conservation Commission September 20, 1955.

We have approved these, subject to like approval by the United States Geological Survey and the New Mexico Oil Conservation Commission.

Very truly yours,

E. S. WALKER  
Commissioner Of Public Lands

Encl.  
cc: OCC-Santa Fe  
MR

C  
O  
P  
Y

August 11, 1955

*file*

C

Pacific Northwest Pipeline Corp.  
720 Simms Building  
Albuquerque, New Mexico

Atten: Mr. R. N. Richey

Re: Plan of Development  
Cox Canyon Unit

O

Gentlemen:

This is to advise that the Plan of Development for the remainder of the year 1955 for the Cox Canyon Unit, dated August 2, 1955, was approved by the Commissioner of Public Lands on August 10, 1955. Copy of which was mailed to you as of that date.

P

Approval of said plan being subject to like approval by the United States Geological Survey and by the Oil Conservation Commission.

Y

Very truly yours,



E. S. WALKER  
Commissioner of Public Lands

cc: OCC-Santa Fe  
USGS-Roswell

MMRM

OIL CONSERVATION COMMISSION  
P. O. BOX 871  
SANTA FE, NEW MEXICO

August 10, 1955

*file*

C  
O  
P  
Y

Pacific Northwest Pipe Line Corp.  
Simms Building  
Albuquerque, New Mexico

Attention: Mr. R. N. Richey

Re: Plan of Development  
Cox Canyon Unit  
San Juan County, New Mexico

Gentlemen:

This is to advise that the Plan of Development for the remainder of 1955 for the Cox Canyon Unit, dated August 2, 1955, has been approved this date by the New Mexico Oil Conservation Commission, subject to like approval by the United States Geological Survey and by the Commissioner of Public Lands of the State of New Mexico.

One approved copy of the plan is returned herewith.

Very truly yours,

*WBM*

W. B. Macey  
Secretary-Director

WBM:jh  
cc: USGS, Roswell  
Commissioner of Public Lands, Santa Fe

encl.

# PACIFIC NORTHWEST PIPELINE CORPORATION

PHONE 3-3547 • SIMMS BUILDING

ALBUQUERQUE, NEW MEXICO

August 2, 1955

Re: Plan of Development,  
Cox Canyon Unit, I-  
Section 946, San Juan  
County, New Mexico.

Regional Supervisor  
United States Geological Survey  
Department of Interior  
Roswell, New Mexico.

Commissioner of Public Lands  
State of New Mexico  
Capitol Annex Building  
Santa Fe, New Mexico.

Oil Conservation Commission  
State of New Mexico  
Capitol Annex Building  
Santa Fe, New Mexico.

Gentlemen:

In compliance with Section 10 of the Cox Canyon Unit Agreement, which was duly approved by the Director of the United States Geological Survey, the Commissioner of Public Lands of the State of New Mexico and by the Oil Conservation Commission of the State of New Mexico, Pacific Northwest Pipeline Corporation, as Successor Unit Operator, hereby submits a Plan of Development for the Mesaverde Formation of said Cox Canyon Unit for the remainder of the calendar year 1955.

In order to adequately protect this unit from drainage, and to provide for an ample development program within the unit area, Pacific Northwest Pipeline Corporation, as Unit Operator, proposes four additional wells to be located as follows:

Township 32 North - Range 11 West

Sec. 9: S $\frac{1}{2}$   
Sec. 16: E $\frac{1}{2}$   
Sec. 21: E $\frac{1}{2}$ , W $\frac{1}{2}$

August 2, 1955

Pacific plans to drill these wells to intermediate casing point with conventional hydraulic rotary tools and to drill the pay section with gas tools, individually sand-oil fracturing the Cliff House, Menefee (where gas productive), and Point Lookout sands of the Mesaverde.

Your approval of this Plan of Development for the remainder of the calendar year 1955 is respectfully requested.

Very truly yours,

PACIFIC NORTHWEST PIPELINE CORPORATION

*R. N. Richey*  
R. N. RICHEY, Manager  
Land Department

DNC:gm

APPROVED: \_\_\_\_\_ DATE: \_\_\_\_\_  
Supervisor, United States Geological Survey

Subject to like approval by the appropriate State officials.

APPROVED: \_\_\_\_\_ DATE: \_\_\_\_\_  
Commissioner of Public Lands

Subject to like approval by the U.S.G.S. and Oil Conservation Commission.

APPROVED: W B Macey DATE: 8-10-55  
Oil Conservation Commission

Subject to like approval by the U.S.G.S. and Commission of Public Lands.



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

P. O. Box 6721  
Roswell, New Mexico

August 4, 1955

*file*

Pacific Northwest Pipeline Corporation  
Simms Building  
Albuquerque, New Mexico

Gentlemen:

The plan of development dated August 2, 1955, for the Cox  
Canyon unit area, New Mexico, I-Sec. No. 946, has been approved on  
this date, subject to like approval by the appropriate State of-  
ficials.

One approved copy of said plan is returned herewith.

Very truly yours,

  
JOHN A. ANDERSON  
Regional Oil and Gas Supervisor

Enclosure

Copy to: Cons. Div., Wash. (w/1 copy of plan)  
Farmington (w/1 copy of plan)  
MNOCC, Santa Fe (ltr only) ✓

# PACIFIC NORTHWEST PIPELINE CORPORATION

PHONE 3-3547 • SIMMS BUILDING

ALBUQUERQUE, NEW MEXICO

July 29, 1955

RE: Application for Approval of  
Mesaverde Participating Area  
for the Cox Canyon Unit, I-  
Section 946, San Juan County,  
New Mexico.

Director, U. S. Geological Survey  
Department of Interior  
Roswell, New Mexico.

Commissioner of Public Lands  
State of New Mexico  
Capitol Annex Building  
Santa Fe, New Mexico.

Oil Conservation Commission  
State of New Mexico  
Capitol Annex Building  
Santa Fe, New Mexico.

Gentlemen:

Pursuant to the provisions of Section 11 of the Unit Agreement approved by the Director of the United States Geological Survey, the Commissioner of Public Lands of the State of New Mexico and the Oil Conservation Commission of the State of New Mexico, affecting lands in the Cox Canyon Area in San Juan County, New Mexico, Pacific Northwest Pipeline Corporation, as Unit Operator, hereby submits for your approval a selection of lands to constitute the participating area for the Mesaverde Zone.

The unit discovery well was completed as of 7-20-53 with an initial potential of 4,200 Mcfgpd. The following wells were completed prior to the unit discovery and these wells, together with the unit well, indicate that the entire Unit Area was proved to be productive:

<u>Name</u>	<u>Location</u>	<u>Completion Date</u>	<u>Initial Production</u>
Cox Canyon Unit #1 Well	SW/4 Sec. 16 T32N-R11W	7/20/53	4,200 MCF
Waller #1 Well	SW/4 Sec. 14 T32N-R11W	11/22/52	2,467 MCF
Murcheson #2 Well	NE/4 Sec. 22 T32N-R11W	11/4/52	1,410 MCF
Horton #1 Well	SW/4 Sec. 29 T32N-R11W	7/8/53	5,210 MCF
Delhi #1 Well	SE/4 Sec. 30 T32N-R11W	2/2/52	2,910 MCF
Ute #1-A Well	SW/4 Sec. 13 32N-11W-Colo.	9/17/52	2,830 MCF
Ute #1 Well	SW/4 Sec. 15 32N-11W-Colo.	5/8/52	1,710 MCF

July 29, 1955

Substantiating this assumption that the entire unit was proved to be productive as of 7-20-53, the following list of surrounding wells has been subsequently completed:

<u>Name</u>	<u>Location</u>	<u>Completion Date</u>	<u>Initial Production</u>
Decker # 1 Well	SW/4 Sec. 7 T32N-R11W	3/18/54	2,863 MCF
Greenbrier Maddox #1 Well	NE/4 Sec. 15 T32N-R11W	10/23/53	6,310 MCF
Decker #3 Well	SW/4 Sec. 17 T32N-R11W	2/8/55	3,490 MCF
Johns #1 Well	NE/4 Sec. 18 T32N-R11W	9/25/53	3,590 MCF
Johns #2 Well	SW/4 Sec. 18 T32N-R11W	10/31/53	4,450 MCF
Colorado Oil & Gas, Riddle #1 Well	SE/4 Sec. 20 T32N-R11W	7/24/53	8,199 MCF
Barnes #2 Well	SW/4 Sec. 22 T32N-R11W	11/15/53	5,114 MCF
Barnes #3 Well	NE/4 Sec. 27 T32N-R11W	1/3/54	3,937 MCF
Fields #4 Well	NE/4 Sec. 28 T32N-R11W	11/16/54	7,337 MCF
Fields #3 Well	NE/4 Sec. 29 T32N-R11W	10/29/54	4,295 MCF
Hubbard #2 Well	NW/4 Sec. 30 T32N-R11W	4/4/55	5,190 MCF
Virbeth Co. #1 Well	NE/4 Sec. 22 32N-11W- Colo.	11/13/54	2,065 MCF
Ute #2 Well	SW/4 Sec. 14 32N-11W- Colo.	11/1/54	2,822 MCF

The lands selected by the applicant to constitute the Cox Canyon participating area for the Mesaverde Zone include all lands within the boundaries of the Cox Canyon Unit. These lands are as follows:

<u>Township 32 North - Range 11 West</u>	<u>Acreage</u>
Sec. 8: SE $\frac{1}{4}$	168.20
Sec. 9: Lots 1,2,3,&4, S $\frac{1}{2}$ S $\frac{1}{2}$	336.40
Sec. 16: All	640.00
Sec. 17: E $\frac{1}{2}$ , E $\frac{1}{2}$ W $\frac{1}{2}$	480.00
Sec. 20: NE $\frac{1}{4}$ , E $\frac{1}{2}$ SE $\frac{1}{4}$	240.00
Sec. 21: All	640.00
Sec. 28: N $\frac{1}{2}$ NW $\frac{1}{4}$	80.00
<b>Total Acreage</b>	<b>2584.60</b>

The working interest under leases on the above described lands which have been committed to the unit is vested:

Pacific Northwest Pipeline Corporation	96.904743%
El Paso Natural Gas Company	3.095257%

Royalties are payable on production from these lands to the United States and to the State of New Mexico under the provisions of the following leases:

NM 03189	E-3087	E-3092	E-3095
NM 03190	E-3089	E-3093	E-5387
SF 078231	E-3091	E-3094	E-5388

In all of these leases which are included in the above described proposed participating area, the United States of America owns 1/8th royalty interest in

July 29, 1955

each of the above Federal leases, and the State of New Mexico owns 1/8th royalty in each of the above State leases.

In support of this application, the applicant attaches hereto and makes a part hereof the following items:

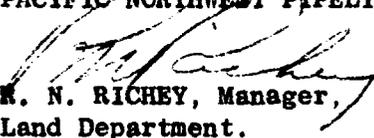
- No. 1 - A map marked Exhibit "A", showing the Cox Canyon Unit and the proposed participation area for the Mesaverde Zone covering the entire unit area;
- No. 2 - A schedule marked Exhibit "B", showing the leases included in the proposed initial participation area, and setting forth the percentage of unitized substances to be allocated to each unitized tract within the proposed participation area;
- No. 3 - A brief geological and engineering memorandum marked Exhibit "C", discussing the general area of the Cox Canyon Unit.

The applicant respectfully requests that the Director, the Commissioner and the Commission approve this selection of lands to constitute the Mesaverde participation area for the Cox Canyon Unit, to be effective as of the 20th day of July, 1953.

Dated this 29th day of July, 1955.

Very truly yours,

PACIFIC NORTHWEST PIPELINE CORPORATION

  
 R. N. RICHEY, Manager,  
 Land Department.

DNC:GM  
Enc.

APPROVED: \_\_\_\_\_ DATE: \_\_\_\_\_  
 Director, United States Geological Survey

Subject to like approval by the appropriate State officials.

APPROVED: \_\_\_\_\_ DATE: \_\_\_\_\_  
 Commissioner of Public Lands

Subject to like approval by the U.S.G.S. and Oil Conservation Commission.

APPROVED: \_\_\_\_\_ DATE: \_\_\_\_\_  
 Oil Conservation Commission

Subject to like approval by the U.S.G.S. and Commission of Public Lands.

EXHIBIT "B"  
 SCHEDULE OF LANDS SHOWING OWNERSHIP OF  
 OIL & GAS INTERESTS WITHIN PROPOSED MESAVERDE  
 PARTICIPATING AREA FOR COX CANYON AREA  
 SAN JUAN COUNTY, NEW MEXICO

Tract No.	Description of lands	Number of acres	Serial No.	Basic Royalty	Unit Participation	Working Interest Owner*	Unit Participation	Total Tract Participation
1	T32N-R11W Sec. 16: NE $\frac{1}{4}$ NE $\frac{1}{4}$	40.00	E-3087	12.5%	.193454%	Pac. NW 87.5	1.354174%	1.547628%
2	T32N-R11W Sec. 16: NE $\frac{1}{4}$ NW $\frac{1}{4}$	40.00	E-3089	12.5%	.193454%	Pac. NW 87.5	1.354174%	1.547628%
3	T32N-R11W Sec. 16: NW $\frac{1}{4}$ NW $\frac{1}{4}$ ; SE $\frac{1}{4}$ NW $\frac{1}{4}$ ; SW $\frac{1}{4}$ NE $\frac{1}{4}$ ; W $\frac{1}{2}$ SE $\frac{1}{4}$ ; SE $\frac{1}{4}$ SW $\frac{1}{4}$	240.00	E-3091	12.5%	1.160722%	Pac. NW 87.5	8.125048%	9.285770%
4	T32N-R11W Sec. 16: NE $\frac{1}{4}$ SW $\frac{1}{4}$ ; SE $\frac{1}{4}$ SE $\frac{1}{4}$	80.00	E-3092	12.5%	.386906%	Pac. NW 87.5	2.708351%	3.095257%
5	T32N-R11W Sec. 16: NW $\frac{1}{4}$ SE $\frac{1}{4}$ ; SE $\frac{1}{4}$ NE $\frac{1}{4}$	80.00	E-3093	12.5%	.386906%	Pac. NW 87.5	2.708351%	3.095257%
6	T32N-R11W Sec. 16: NE $\frac{1}{4}$ NE $\frac{1}{4}$	40.00	E-3094	12.5%	.193454%	Pac. NW 87.5	1.354174%	1.547628%
7	T32N-R11W Sec. 16: SW $\frac{1}{4}$ NW $\frac{1}{4}$	40.00	E-3095	12.5%	.193454%	Pac. NW 87.5	1.354174%	1.547628%
8	T32N-R11W Sec. 16: NW $\frac{1}{4}$ NE $\frac{1}{4}$	40.00	E-5387	12.5%	.193454%	Pac. NW 87.5	1.354174%	1.547628%
9	T32N-R11W Sec. 16: SW $\frac{1}{4}$ SW $\frac{1}{4}$	40.00	E-5388	12.5%	.193454%	Pac. NW 87.5	1.354174%	1.547628%

TOTAL STATE OF NEW MEXICO - 640 ACRES = 24.762052%

EXHIBIT "B"

-2-

Tract No.	Description of lands	Number of acres	Serial No.	Basic Royalty	Unit Participation	Working Interest Owner*	Unit Participation	Total Tract Participation
10	T32N-R11W Sec. 8: Lots 1, 2, S½SE¼ Sec. 9: Lots 1, 2, 3, 4, S½S¼ Sec. 20: NE¼, E½SE¼ Sec. 21: All	1,384.60	NM 03189	12.5%	6.696394%	Pac. NW 87.5	46.874758%	53.571152%
11	T32N-R11W Sec. 17: E½; E½W½	480.00	NM 03190	12.5%	2.321442%	Pac. NW 87.5	16.250097%	18.571539%
12	T32N-R11W Sec. 28: N½NW¼	80.00	SF 078231	12.5%	.386906%	E1 Paso 87.5	2.708351%	3.095257%

TOTAL FEDERAL ACREAGE - 1,944.60 = 75.237948%

RECAP OF OWNERSHIP

Pacific Northwest Pipeline Corp. 84.791649%  
 E1 Paso Natural Gas Company 2.708351%  
 Basic Royalty - Federal 9.404742%  
 Basic Royalty - State 3.095258%

TOTAL 100.000000%

\* The Percentage of Unit Production allocated to the Working Interest Owner of each tract is subject to all outstanding overriding interest of record against the subject lands.

## EXHIBIT "C"

### GEOLOGICAL AND ENGINEERING MEMORANDUM

The Cox-Canyon Unit is now surrounded by wells completed in the Mesaverde Formation. Potentials of these wells range from 1,410 to 8,199 Mcfgpd, with an average potential of 4,020 Mcfgpd. The Riddle #1 of Cox Canyon Unit well completed approximately in the center of the Unit gauged 4,558 Mcfgpd on a recent test after a 3 hour blow down through a standard 2" nipple. This well is completed so that the entire Mesaverde Section is open to the well bore and is produced as a single unit.

The total Mesaverde thickness encountered in the area averages approximately 800 feet, and the net productive sand is approximately 290 feet. Development has shown both the Cliff House and the Point Lookout sandstones to be productive of gas and to be virtually free of water. The Menefee, primarily a shale body with some sands, lies between the Cliff House and Point Lookout and is also thought to be capable of contributing to the gas production.

The earlier wells in this area were completed by shooting with nitroglycerin, but a large percentage of the more recent wells have been completed by sand frac methods. The No. 4 Fields well in Sec. 28, 32N-11W, for instance, was given sand-oil fracture treatment, and its 7,337 Mcfgpd potential indicates that fracture treatment will substantially improve the potentials to be obtained in the future unit wells, since the Mesaverde sands are generally uniform over the entire Cox Canyon Area and are closely comparable to those found in the Fields well.



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY  
WASHINGTON 25, D. C.

## Memorandum

To: The Director

From: Chief, Conservation Division

Subject: Initial Mesaverde participating area,  
Cox Canyon unit agreement, New Mexico.

Transmitted herewith are five duplicate originals of an application dated July 29, 1955, filed by Pacific Northwest Pipeline Corporation, unit operator, pursuant to section 11 of the Cox Canyon unit agreement, New Mexico, 1-Sec. No. 946, approved June 12, 1952, requesting approval of the initial participating area for the Mesaverde formation.

The application requests that the entire unit area embracing 2564.60 acres described below be designated as the participating area.

T. 32 N., R. 11 W., N.M.P.M., New Mexico

Sec. 8, SE $\frac{1}{4}$	168.20
Sec. 9, lots 1, 2, 3, 4, SW $\frac{1}{4}$	336.40
Sec. 16, all	640.00
Sec. 17, E $\frac{1}{2}$ , ESW $\frac{1}{4}$	400.00
Sec. 20, NW $\frac{1}{4}$ , ESE $\frac{1}{4}$	240.00
Sec. 21, all	640.00
Sec. 28, N $\frac{1}{2}$ SW $\frac{1}{4}$	80.00
	<u>2564.60</u>

The request is based on the completion on July 20, 1953, of the initial test well and six other wells located outside of the unit area. The initial unit well, located in the SE $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 16, T. 32 N., R. 11 W., on State land, was drilled to a total depth of 6309 feet and completed in the Mesaverde formation between the depths of 5726 and 6278 feet at an initial productive rate of 4,200,000 cubic feet of gas a day. The well was connected to the pipeline in November 1954. The location, completion dates and initial production data of the six wells located outside the unit area are summarized in the application.

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The completion of the seven wells mentioned above indicated that the entire unit area is productive in the Mesaverde formation. The subsequent completion of thirteen additional Mesaverde wells surrounding the unit area, also summarized in the application, substantiates this belief.

The authority of the Secretary to approve initial participating areas and enlargements thereof under unit agreements was delegated to you by Departmental Order No. 2260, dated November 29, 1946.

I recommend approval of the attached application, subject to like approval by the appropriate State officials, establishing the initial participating area for the Mesaverde formation to be effective July 20, 1953, the date of first production as provided in section 11 of the unit agreement.

Chief, Conservation Division

Attachments 5.

Attachments approved: \_\_\_\_\_

DEC 28 1955

Dec. 28, 1955

*Thomas B. Nolan*  
\_\_\_\_\_  
TAGNER Director, U. S. Geological Survey  
and returned to the Conservation Division

s/ Thomas B. Nolan

Copy to: FLS-Santa Fe

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