EL PASO NATURAL GAS COMPANY 3-25-68

Corrections of List of Wells Dated February 14, 1968, Concerning Acreage Corrections

WELLS REQUIRING FILE CORRECTIONS ONLY

LEASE NAME & WELL NUMBER	LOCATION	POOL	PRESENT ACREAGE	CORRECT ACREAGE
Huerfano Unit #154	B-1-25N-10W	Undes. PC Corrected well name	161.74	159.91
Huerfano Unit #63	F-4-26N-10W	W.Kutz PC Corrected Acreage	160	160.31
San Juan 27-4 Unit #14-X	L-18-27N-4W	Blanco MV No change - delete from list	W 321.12	W 321.12
Rincon Unit #174	N-19-27N-6W	Basin Dakota Corrected well name	S 318.72	S 319.40
Huerfano Unit #74	M-19-27N-10W	Ful.Kutz PC Corrected well name	166.99	167.19
Indian A #2	N-30-29N-3W	Chosa Mesa PC	253.55	S 253.63
Scott #6	K-4-31N-10W	Blanco MV No change - Delete from list	S 320	S 320

Form 9-331a
(Feb. 1951)

Budget Bureau No. 42-R358.4.
Form Approved.

Land Office Santa Fe

Lease No. 079366

Unit Rincon Unit

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL		SUBSEQUENT REPORT OF WATER SHUT-OFF	XX
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL		SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

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U. S. GEOLOGICAL SURVEY
FARMINGTON, NEW MEXICO

October 15, 19 62

Well No. 174 is located 990 ft. from XXX {N/S} line and 1650 ft. from XXX {E/W} line of sec. 19

SW Section 19 (¼ Sec. and Sec. No.) 27-N (Twp.) 6-W (Range) N.M.P.M. (Meridian)

Basin Dakota (Field) Rio Arriba (County or Subdivision) New Mexico (State or Territory)

The elevation of the derrick floor above sea level is 6602 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Spud date 9-29-62.
on 10-1-62 T.D. 325'.
Ran 8 joints 9 5/8" 40# H-80 (310')
set at 322'. Cemented w/210 sacks regular, 1/8#
flocele/sk.

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I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company El Paso Natural Gas Company

Address Box 990

Farmington, New Mexico

By ORIGINAL SIGNED H.E. McANALLY

Title Petroleum Engineer

GPO 914974

Form 9-331a
(Feb. 1951)

Budget Bureau No. 42-R358.4.
Form Approved.

Land Office Santa Fe
Lease No. 079366
Unit Rincon Unit

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL		SUBSEQUENT REPORT OF WATER SHUT-OFF	XX
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NOTICE OF INTENTION TO ABANDON WELL			

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FARMINGTON, NEW MEXICO

October 24, 19 62

Well No. 174 is located 990 ft. from XX {N/S} line and 1650 ft. from XX {E/W} line of sec. 19

SW Section 19 (¼ Sec. and Sec. No.) 27-N (Twp.) 6-W (Range) N.M.P.M. (Meridian)

Basin Dakota (Field) Rio Arriba (County or Subdivision) New Mexico (State)

The elevation of the derrick floor above sea level is 6602 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

On 10-18-62, T.D. 7622'. Ran 243 joints 4 1/2" casing(1172' 11.6# on bottom, 6111' 10.5# in middle, 327' 11.6# on top). 2nd stage tool set at 5627', 3rd stage tool @ 3296'. total (7610') set at 7622'. Cemented 1st stage w/185 sacks 1:1 Dismix, 2% A-7, 1/8# flocele. Cemented 2nd stage w/150 sacks Dismix & El Toro "35", 1/4 cu. ft. Strata-Crete"6"/sk., 1/8# Cello. 3rd stage w/212 sacks 1:1 Dismix, El Toro "35", 1/4 cu. ft. Strata-Crete"6"/sk. 1/8# Cello. Held 1500#/30 minutes.

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I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company El Paso Natural Gas Company

Address Box 990

Farmington, New Mexico

By ORIGINAL SIGNED H.E. McANALLY

Title Petroleum Engineer

GPO 914974

(REV. 11-59)

EL PASO NATURAL GAS COMPANY

OPEN FLOW TEST DATA

DATE November 1, 1962

Operator: El Paso Natural Gas Company		Lease: Rincon No. 174	
Location: 900'S, 1650'W, Sec. 19-27-6		County: Rio Arriba	State: New Mexico
Formation: Dakota		Pool: Basin	
Casing: Diameter: 4.500	Set At: Feet: 7622	Tubing: Diameter: 2.375	Set At: Feet: 7504
Pay Zone: From: 7357	To: 7498	Total Depth: 7650	Shut In: 10-25-62
Stimulation Method: Sand/Water Frac.		Flow Through Casing:	Flow Through Tubing: X

Choke Size, Inches: .750	Choke Constant: C: 12.365		
Shut-In Pressure, Casing, PSIG: 2588	+ 12 = PSIA: 2600 — Days Shut-In: 7	Shut-In Pressure, Tubing, PSIG: 2626	+ 12 = PSIA: 2638
Flowing Pressure: P, PSIG: 311	+ 12 = PSIA: 323	Working Pressure: P_w, PSIG: 822	+ 12 = PSIA: 834
Temperature: T = 79 °F, F_t = .9822	n = .75	Fpv (From Tables): 1.035	Gravity: .700, F_g = .9258

CHOKE VOLUME = Q = C × P_t × F_t × F_g × F_{pv}

Q = (12.365)(323)(.9822)(.9258)(1.035) = 3759 MCF/D

OPEN FLOW = Aof = $Q \left(\frac{P_c^2}{P_c^2 - P_w^2} \right)^n$

$$Aof = \left(\frac{6,959,044}{6,263,488} \right)^n = (1.1110)^{.75}(3759) = (1.0821)(3759)$$

NOTE: Surged heavy and medium mist for entire test period.

Aof = 4068 MCF/D

RECEIVED NOV 6 1962 OIL CON. COM. DIST. 3

TESTED BY D. E. Mortensen

WITNESSED BY

Calculated by T. B. Grant

Checked by W. D. Dawson

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Lewis D. Galloway

Lewis D. Galloway

Form 9-331a
(Feb. 1951)

Budget Bureau No. 42-R358.4.
Form Approved.

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office Santa Fe
Lease No. 079366
Unit Rincon Unit

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL		SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
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NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL		Water Frac.	X

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

November 8, 19 62

Well No. 174 is located 990 ft. from {N/S} line and 1650 ft. from {E/W} line of sec. 19

SW Section 19 (¼ Sec. and Sec. No.) 27-N (Twp.) 6-W (Range) N.M.P.M. (Meridian)

Basin Dakota (Field) Rio Arriba (County or Subdivision) New Mexico (State or Territory)

The elevation of the derrick floor above sea level is 6602 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

On 10-23-62, T.D. 7623'. C.O.T.D. 7562'.
Perf 7538-44 (2 SPF);7486-98 (1 SPF);7357-63;7392-98 (2 SPF);
Frac w/69,000 gallons water, 51,000# sand. Flush w/5460 gallons water. I.R. 36 BPM. Max pr 4100#, MDP 1950#, tr pr 3000-3400#, 3 drops of 6 balls.

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FARMINGTON, NEW MEXICO

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DIST. 3

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company El Paso Natural Gas Company

Address Box 990

Farmington, New Mexico

By ORIGINAL SIGNED H.E. McANALLY

Title Petroleum Engineer

GPO 914974

EL PASO NATURAL GAS COMPANY

DEVIATION REPORT

Okal

Name Of Company				Address	
El Paso Natural Gas Company				Box 990, Farmington, New Mexico	
Lease	**Well No**	**Unit Letter**	**Section**	**Township**	**Range**
Rincon Unit	174	N	19	27-N	~~9-W~~ 6 W
Pool				**County**	
Basin Dakota				Rio Arriba, New Mexico	

DEPTH	DEVIATION
100'	1/4°
300'	3/4°
1000'	1°
1570'	1 1/4°
2475'	1 1/4°
3150'	1 1/4°
4025'	3/4°
4335'	3/4°
4710'	1°
5045'	1/4°
5450'	3/4°
5910'	1/2°
6550'	3/4°
7050'	3/4°

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DEC 10 1962
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DIST. 3

Certificate: I, the undersigned, state that I, acting in my capacity as Petroleum Engineer of El Paso Natural Gas Co., am authorized by said Company to make this report; and that this report was prepared by me or under my supervision and directions and that the facts stated therein are true to the best of my knowledge and belief

H. E. McAnally

Subscribed and sworn to before me this 6th day of December, 1962.

Dora G. Burns
Notary Public in and for San Juan County, New Mexico

My commission expires October 5, 1964.