

Drawer 1857
Roswell, New Mexico 88201

January 16, 1974

RECEIVED

El Paso Natural Gas Company
Attention: Mr. A. L. Truex
P. O. Box 1492
El Paso, Texas 79999

JAN 22 1974

O. C. C.
ARTESIA, OFFICE

Gentlemen:

Enclosed are two approved copies of communication agreement
No. Com. Agr.-SW-814 involving 160 acres of land in Federal
leases New Mexico 8420-A and 0554467, Eddy County, New Mexico.

The agreement communizes all rights as to dry gas and associated
liquid hydrocarbons producible from the Wolfcamp formation in the
SW 1/4 sec. 28, T. 22 S., R. 22 E., N.M.P.M., and is effective as of
November 1, 1973.

You are requested to furnish all interested principals with appropriate
evidence of this approval.

Sincerely yours,

CARL C. TRAYWICK
Acting Area Oil and Gas Supervisor

cc:
BLM, Santa Fe (w/cy agr.)
Artesia (w/cy agr.)
File (2)

JMonro:lh

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NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELLS

Form C-122-122
Revised 9-1-65

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Type Test ☐ Initial ☐ Annual ☒ Special		Test Date 1-10-74	
Company El Paso Natural Gas Company		Connection El Paso Natural Gas Company	
Pool Rocky Arroyo		Formation Wolfcamp	
Completion Date 11-8-73		Total Depth 9750	
Plug Back TD 6056		Elevation	
Farm or Lease Name Patterson A		Unit	
Csg. Size 5 1/2	Wt. 17	Set At 6056	Perforations: From 5764 To 5861
Tbg. Size 2 3/8	Wt. 4.7	Set At 5691	Perforations: From To
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single		Packer Set At None	
Producing Thru Tbg.		Reservoir Temp. °F 130 @ 5691	
Mean Annual Temp. °F 13.2		State New Mexico	
L	H	Gg .693 Assumed	% CO ₂ % N ₂ % H ₂ S Prover
Meter Run 4		Taps Flg.	

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
SI							1565		1574		48 Hrs.
1.	4 x	1.250		420	4	78	1180	30	1566		1 hr.
2.	4 x	1.250		425	9.6	84	970	42	1560		1 hr.
3.	4 x	1.250		435	16.8	90	823	41	1550		1 hr.
4.	4 x	1.250		450	24.0	86	565	41	1542		1 hr.
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	7.469	41.63	433.2	.9831	1.201	1.045	384
2	7.469	64.86	438.2	.9777	1.201	1.045	594
3	7.469	86.77	448.2	.9723	1.201	1.043	789
4	7.469	105.44	463.2	.9759	1.201	1.046	965
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio Mcf/bbl.	A.P.I. Gravity of Liquid Hydrocarbons Deg.	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure P.S.I.A.	Critical Temperature °R
1	.65	533	1.39	.915						
2	.66	544	1.40	.916						
3	.67	550	1.42	.919						
4	.69	546	1.41	.914						
5										

P _r 1567.2 P _w 2519.2		(1) $\frac{P_r^2}{P_r^2 - P_w^2} = 25.0417$		(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 8.792$	
NO.	P _r ²	P _w ²	P _r ² - P _w ²	P _r ² - P _w ²	P _r ² - P _w ²
1	1579.2	2493.9	25.3		
2	1573.2	2475.0	44.2		
3	1563.2	2443.6	75.6		
4	1555.2	2418.6	100.6		
5					

Absolute Open Flow 8.484 Mcfd @ 15.025		Angle of Slope 56		Slope, n .575	
Remarks: Trace of fluid (TSTN)					
Approved By Commission:		Conducted By: Reggie Reston		Calculated By: Reggie Reston	
				Checked By:	

EL PASO NATURAL GAS COMPANY

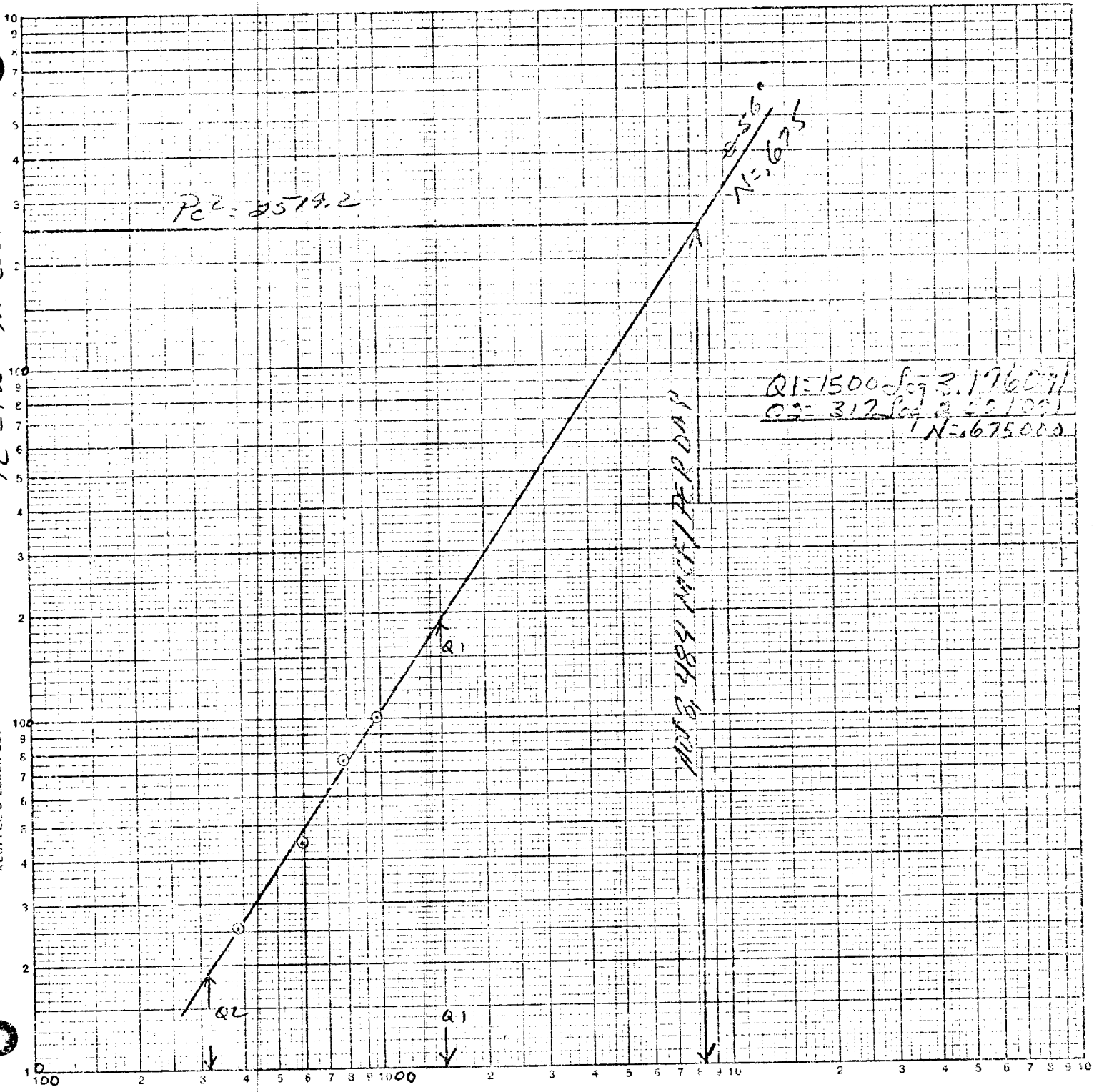
Patterson A No. 1

Eddy County, New Mexico

January 9, 1974

$P_c^2 - P_w^2$ in (000's)

LOG 7200
5 x 3 CYCLES
KEUFFEL & ESSER CO.



$$Q = \text{McF} / \text{PD}$$