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C-122

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

Form O-122
Revised 9-1-65

RECEIVED

Type Test ☒ Initial ☐ Annual ☒ Special		Test Date 4-17/18-74		APR 25 1974	
Company Pennzoil Company		Connection El Paso Natural Gas Company			
Well No. & Name R-4915 12-1-74 Undesignated		Formation Morrow		Unit O. C. C. A&TEBIA, OFFICE	
Completion Date 1-8-74		Total Depth 11,850		Plug Back TD 11,778	
Elevation 3325 Gr		Farm or Lease Name O'Neill "B"			
Log Size 4 1/2	Wt. 11.6	Set At 11,850	Perforations: From 11,372 To 11,456	Well No. 1	
Log Size 2 3/8 EUE	Wt. 1.995	Set At 11,312	Perforations: From To	Unit J	Sec. Twp. Rge. 10 24-S 26-E
Type Well - Single - Borehole - G.C. or G.D. Multiple Single			Packer Set At 11,315		County Eddy
Producing thru Tubing		Reservoir Temp. °F 192 @ 11,415		Mean Annual Temp. °F 60°	
Baro. Press. - P _s 13.2		State New Mexico			
11,415	G _g .575	% CO ₂ .0106	% N ₂ .0037	% H ₂ S	Prover
Meter Run		Taps			

FLOW DATA					TUBING DATA		CASING DATA		Duration of Flow	
Prove Unit Size	X	Orifice Size	Press. psia/g.	Diff. h _w	Temp. °F	Press. psia/g.	Temp. °F	Press. psia/g.		Temp. °F
4.0		1.25	7.2	3.0	84	3065	80			2 min
4.0		1.25	7.2	3.3	86	3012	78			2 min
4.0		1.25	7.2	5.2	87	1532	69			13 min
4.0		1.25	7.2	5.5	87	1315	69			1 min

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (14.73)	$\sqrt{P_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super. Compress. Factor, F _{pv}	Rate of Flow Q, Mscf
1	7.93		518	.9777	1.3188	1.035	723
2	7.93		518	.9759	1.3188	1.034	793
3	7.93		518	.9750	1.3188	1.034	1248
4	7.93		518	.9750	1.3188	1.034	1320

NO.	P _s	Temp. °F	Z	Gas Liquid Hydrocarbon Ratio	None Produced	Rate of Flow
1	.77	544	1.57	.934		
2	.77	546	1.58	.936		
3	.77	547	1.58	.936		
4	.77	547	1.58	.936		

NO.	P _s ²	P _w	P _s ²	P _s ² - P _w ²	(1) $\frac{P_s^2}{P_s^2 - P_w^2} = 1.179874$	(2) $\left[\frac{P_s^2}{P_s^2 - P_w^2} \right]^n = 1.179874$
1	3325.8	11061	2786			
2	3112.7	9689	4158			
3	1654.8	2738	11109			
4	1453.0	2111	11736			

Absolute Open Flow		Angle of Slope	
1557	45°		

Remarks	

Conducted By: J. N. Casanovic		Calculated By: H. I. Hapler		Checked By:	