

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

Form C-122
Revised 9-1-65

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 9-29-77		OCT 11 1977			
Company Troporo Oil and Gas Corporation						Connection El Paso Natural Gas Co.					
Pool Cabin Lake						Formation Strawn		Unit O. C. C. N. ARTESIA, OFFICE			
Completion Date 9-29-77			Total Depth 13950		Plug Back TD 13490		Elevation		Form or Lease Name Cabana		
Csg. Size 4 1/2	Wt. 14.6	d 3.920	Set At 13950	Perforations: From 12357 To 12370				Well No. 1			
Tub. Size 2 7/8	Wt. 6.5	d 2.441	Set At 12255	Perforations: From To				Unit Sec. Twp. Rge. N 1 22 30			
Type Well - Single - Prodenhead - G.G. or G.O. Multiple Single						Packer Set At 12255		County Eddy			
Producing Thru Tbg.		Reservoir Temp. °F 197 ^o 12255		Mean Annual Temp. °F		Zero. Press. - P _g		State New Mexico			
L 12255	H 12255	G _g .681	% 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							3767				72 hrs
1.	4	x	1.500	371	4.84	95	3570				1 hr.
2.	4	x	1.500	371	15.21	91	3400				1 hr.
3.	4	x	1.500	371	36.00	82	3145				1 hr.
4.	4	x	1.500	371	57.76	72	2835				1 hr.
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	10.84	43.12	384.2	.9680	1.212	1.035	568
2	10.84	76.44	384.2	.9715	1.212	1.036	1011
3	10.84	117.61	384.2	.9795	1.212	1.038	1571
4	10.84	148.97	384.2	.9887	1.212	1.041	2014
5.							

NO.	P _g	Temp. °R	T _g 1	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
					6.297	52.8 @ 60°	.681	X X X X X	669	385
1.	.57	555	1.44	.933				X X X X X	652	527
2.	.57	551	1.43	.932						
3.	.57	542	1.41	.929						
4.	.57	532	1.38	.923						
5.										

P _g 3780.2 P _g ² 14289.9					(1) $\frac{P_g^2}{P_g^2 - P_w^2} = 2.322$		(2) $\left[\frac{P_g^2}{P_g^2 - P_w^2} \right]^n = 1.977$	
NO.	P _g ²	P _w	P _w ²	P _g ² - P _w ²				
1	3583.3	12840.0	1649.9					
2	3416.2	11670.4	2619.5					
3	3162.5	10001.4	4288.5					
4	2852.3	8135.6	6154.3					
5								

Absolute Open Flow 3,981		Mcf/d @ 15.625		Angle of Slope 51°		Slope, n .809	
Remarks: The well made 34.17 Bbls. of distillate and 11.58 Bbls. of water during the test.							
Approved By Commission:		Conducted By: Rick Pagan		Calculated By: Rick Pagan		Checked By:	