

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

Form C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 10-8-73	
Company El Paso Natural Gas Company			Connection None		
Pool Rhodes			Formation Yates		Unit
Completion Date 10-8-73		Total Depth 3300	Plug Back TD ---	Elevation 2984.8 Gr	Farm or Lease Name Rhodes G.U.
Csg. Size 4 1/2	Wt. 10.5	d	Set At 3298	Perforations: From 2912 To 3174	Well No. 21
Tbg. Size 2 3/8	Wt.	d	Set At 2824	Perforations: From To	Unit Sec. Twp. Rge. M 16 26S 37E
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Storage				Packer Set At	County Lea
Producing Thru Tbg.		Reservoir Temp. °F @	Mean Annual Temp. °F	Baro. Press. - P _a	State New Mexico
L	H	Gg 650 (Assumed)	% CO ₂	% N ₂	% H ₂ S
				Prover x	Meter Run Taps

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							356		356		72
1.	2	x	1/8	349		89	349		350		1 hr.
2.	2	x	3/16	341		86	341		342		1 hr.
3.	2	x	7/32	330		85	330		333		1 hr.
4.	2	x	1/4	319		85	319		323		1 hr.
5.	2	x	5/16	290		85	290		300		1 hr.

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	.2648		362.2	.9732	1.240	1.033	120
2	.6082		354.2	.9759	1.240	1.032	269
3	.8393		343.2	.9768	1.240	1.031	360
4	1.087		332.2	.9768	1.240	1.030	450
5	1.672		303.2	.9768	1.240	1.027	631

NO.	R	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
					Dry	None	.650	XXXXXX	670	375
1.	.54	549	1.46	.938						
2.	.53	546	1.46	.939						
3.	.51	545	1.45	.941						
4.	.50	545	1.45	.942						
5.	.45	545	1.45	.948						

NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1		363.2	131.9	4.4
2		355.2	126.2	10.1
3		346.2	119.9	16.4
4		336.2	113.0	23.3
5		313.2	98.1	38.2

P_c 369.2 P_c² 136.3

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 3.568$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.214$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.331$

Absolute Open Flow	1,331	Mcfd @ 15.025	Angle of Slope °	58	Slope, n	.625
--------------------	-------	---------------	------------------	----	----------	------

Remarks: No fluid produced during test.

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
-------------------------	---------------	----------------	-------------

Orig. Signed by
Joe D. Ramey
Dist. I. Supv.

J. C. Roberts

J. D. Murray