

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

Form C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 2/15/77		Spud Date: 1-26-77	
Company Doyle Hartman				Connection None					
Pool Langlie Mattix				Formation Langlie Mattix				Unit M	
Completion Date 2-14-77		Total Depth 3725		Plug Back TD 3683		Elevation 3329 GL		Farm or Lease Name Citgo LM State	
Csg. Size 4 1/2	Wt. 10.5	d	Set At 3725	Perforations: From 3366 To 3600		Well No. 1			
Tbg. Size 2 3/8	Wt. 4.7	d	Set At 3280	Perforations: From open To end		Unit Sec. Twp. Rge. M 36 23 36			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single						Packer Set At None		County Lea	
Producing Thru Tbg.		Reservoir Temp. °F @		Mean Annual Temp. °F		Baro. Press. - P _a		State New Mexico	
L 3280	H 3280	Gg .680	% CO ₂	% N ₂	% H ₂ S	Prover 2"	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							231		227		24 hrs.
1.	2	x	1/8	221		65	221		227		30 Min.
2.	2	x	1/4	214		65	214		223		30 Min.
3.	2	x	3/8	200		67	200		216		30 Min.
4.	2	x	1/2	170		68	170		208		30 Min.
5.	2	x	3/4	100		67	100		197		30 Min.

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	.2648		234.2	.9952	1.213	1.026	77
2	1.087		227.2	.9952	1.213	1.025	306
3	2.378		213.2	.9933	1.213	1.022	624
4	4.279		183.2	.9924	1.213	1.019	962
5	9.453		113.2	.9933	1.213	Nil	1289

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1.	.35	525	1.36	.950	dry		.680	XXXXXX	669	385
2.	.34	525	1.36	.951						
3.	.32	527	1.37	.957						
4.	.27	528	1.37	.963						
5.	.17	527	1.37	Nil						

NO.	P _t ²	P _w ²	P _w ²	P _t ² - P _w ²
1		240.2	57.70	1.93
2		236.2	55.79	3.84
3		229.2	52.53	7.10
4		221.2	48.93	10.70
5		210.2	44.18	15.45

(1) $\frac{P_t^2}{P_t^2 - P_w^2} = 3.860$

AOF = Q $\left[\frac{P_t^2}{P_t^2 - P_w^2} \right]^n = 4.975$

(2) $\left[\frac{P_t^2}{P_t^2 - P_w^2} \right]^n = 3.860$

Absolute Open Flow 4.975 Mcfd @ 15.025	Angle of Slope 45°	Slope, n 1.000
Remarks:		
Approved By Commission: LS	Conducted By: Rick Pagan	Calculated By: Rick Pagan
Checked By:		

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