

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 3-29-73			
Company John E. Schalk				Connection Waiting on Pipeline					
Pool Undesignated P. C.				Formation Pictured Cliffs				Unit	
Completion Date 3-11-73		Total Depth 5811		Plug Back TD 5778		Elevation		Farm & Lease Name Lone Star Industries-Schalk 52	
in. Size 4.500	Wt. 10.50	d 4.052	Set At 5810	Perforations: From 3483' To 3526'		Well No. 1			
Thg. Size 2.375	Wt. 4.70	d 1.995	Set At 3541	Perforations: From 3527 To 3530		Unit Sec. Twp. Rye. 24 29N 5W			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single						Packer Set At None		County Rio Arriba	
Producing Thru Tubing		Reservoir Temp. °F 137° 5812		Mean Annual Temp. °F --		Baro. Press. - P _a 12.0		State New Mexico	
L 3527	H 3527	G _g 0.65	% CO ₂ --	% N ₂ --	% H ₂ S --	Prover --	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
1.	0.750 T.C.						1150		1175		16 days
2.							255	60	485		3 hrs.
3.											
4.											
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.	12.3650		277	1.0000	0.9608	1.029	3,386
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons	Deg.
2.					Specific Gravity Separator Gas	X X X X X X X X
3.					Specific Gravity Flowing Fluid	X X X X X X X X
4.					Critical Pressure	P.S.I.A.
5.					Critical Temperature	R

P _c 1187	P _c ² 1,408,969			
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1.		497	247,009	1,161,960
2.				
3.				
4.				
5.				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.2126$

ACF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3,989$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.1780$

Absolute Open Flow	3,989	Mcf/d @ 15.025	Angle of Slope °	Slope, n 0.85
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Remarks:

Registered Professional Engineer, St. of N.M. Reg. No. 4324

Approved By Commission:	Conducted By: Ewell N. Walsh	Calculated By: Ewell N. Walsh	Checked By:
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