

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOIN ND ONE POINT BACK PRESSURE IT FOR GAS WELL

Form C-22
 Revised 9-1-66

Type Test: ☒ Initial ☐ Annual ☐ Special						Test Date 1-20-74				
Company Lone Star Industries, Inc.						Connection None				
Pool						Formation				
Completion Date			Total Depth		Plug Back TD		Elevation		Farm or Lease Name Schalk '49'	
Casing Size 2 7/8 EUE		wt.		Set At		Perforations: From 4036 To 4270		Well No. 2		
Tubing Size None		wt.		Set At		Perforations: From To		Unit Sec. Twp. Rge.		
Type Well - Single - Brdenhead - G.G. or G.O. Multiple Single						Packer Set At		County Rio Arriba		
Producing Thru Casing		Reservoir Temp. °F 138 e 4153		Mean Annual Temp. °F 60		Baro. Press. - P _a 12		State New Mexico		
L 4153		H 4153		Gg .610		% 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	
1.	2.0		3/32	1097		51			1097	51	1 Hr
2.	2.0		7/32	872		54			872	54	1 Hr
3.	2.0		1/4	665		56			665	56	1 Hr
4.	2.0		5/16	370		56			370	56	1 Hr
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super. Compress. Factor, Fpv	Rate of Flow O. Mgd
1.	.1410		1109	1.0088	1.2804	1.115	228
2.	.8393		884	1.0058	1.2804	1.088	1055
3.	1.087		677	1.0039	1.2804	1.064	1026
4.	1.672		382	1.0039	1.2804	1.037	880
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1.	1.65	511	1.41	.805	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.	1.32	514	1.42	.845	Specific Gravity Separator Gas _____ X X X X X X X X
3.	1.01	516	1.43	.883	Specific Gravity Flowing Fluid _____ X X X X X
4.	.57	516	1.43	.930	Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature _____ R _____ R

P _r 1145		P _c ² 1311		$(1) \frac{P_c^2}{P_c^2 - P_w^2} = \frac{1311}{482}$		$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.68741$	
NO.	P _r ²	P _w	P _w ²	P _c ² - P _w ²			
1		1134.3	1287	24			
2		910.4	829	482			
3		701.4	491	820			
4		457.9	210	1101			
5							

Absolute Open Flow 1780		Mgd @ 15.025		Angle of Slope @ 62° 24'		Slope n .523	
Remarks:							
Don Douglas &							
Approved by Commission:		Conducted By: J F Roberson		Calculated By: H L Hagler		Checked By:	
WEST TEXAS CONSULTING SERVICE, INC.							

