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

Form C-122
Revised 7-1-65

Type Test: [X] Initial [ ] Annual [ ] Special			Test Date: 1-21-74	
Company: Lone Star Industries, Inc.		Connection: None		
Pool: Undes		Formation: Picture Cliff		Unit
Completion Date	Total Depth	Plug Back TD	Elevation	Farm or Lease Name: Schalk '52'
Csg. Size: 5 1/2 / Wt. / d	Set At: 3665	Perforations: From 3476 To 3530		Well No.: 2
Tbg. Size: 2 3/8 EUE / Wt. / d	Set At: 3632	Perforations: From To		Unit: Sec. 24 Twp. 29-N Rge. 5-W
Type Well – Single – Bradenhead – G.G. or G.O. Multiple		Packer Set At: None		County: Rio Arriba
Producing Thru	Reservoir Temp. °F: 130 @ 3503	Mean Annual Temp. °F: 60	Baro. Press. – P_a: 12.0	State: New Mexico

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
3503	3503	.610				X		

	FLOW DATA					TUBING DATA		CASING DATA		
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	Duration of Flow
SI			1155		44	1155	44	1155	44	7d
1.	2.0	3/32	1139		50	1139	50	1143	50	1 Hr
2.	2.0	7/32	1065		58	1065	58	1076	58	1 Hr
3.	2.0	1/4	1000		60	1000	60	1015	60	1 Hr
4.	2.0	5/16	940		62	940	62	950	62	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 Q, Mcfd
1	.1410		1151	1.010	1.280	1.119	235
2.	.8393		1077	1.002	1.280	1.105	1281
3.	1.087		1012	1.00	1.280	1.096	1543
4.	1.672		952	.9981	1.280	1.090	2217
5.							

NO.	P_r	Temp. °R	T_r	Z
1	1.72	510	1.41	.798
2.	1.61	518	1.43	.819
3.	1.51	520	1.44	.832
4.	1.42	522	1.44	.842
5.				

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
Specific Gravity Separator Gas _____ XXXXXXXXXX
Specific Gravity Flowing Fluid XXXXX _____
Critical Pressure 671 P.S.I.A. _____ P.S.I.A.
Critical Temperature 362 R _____ R

P_c 1167 P_c^2 1362

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		1155	1334	28
2		1088	1184	178
3		1027	1055	307
4		962	925	437
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{1362}{437}$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2.53153$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 5612$

Absolute Open Flow 5612 Mcfd @ 15.025 | Angle of Slope θ 50° 45' | Slope, n .817

Remarks:

Approved by Commission: | Conducted By: ~~Don Douglas &~~ Joe Roberson | Calculated By: H L Hagler WEST TEXAS CONSULTING SERVICE, INC. | Checked By: