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

Form C-122
Revised 2-1-65

Type Test: [X] Initial [ ] Annual [ ] Special		Test Date: 5-6-77	
Company: GULF OIL CO.	Connection: AIR		
Pool:	Formation:		Unit:
Completion Date:	Total Depth: 3587	Plug Back TD: 3587	Elevation:
Farm or Lease Name: S. J. CARR			
Csg. Size: 4 1/2 / Wt.: 16.25 / d: 4.082 / Set At: 3587	Perforations: From 3340 To 3462		Well No.: 9
Tbg. Size: 2 3/8 J55 / Wt.: 4.70 / d: 1.995 / Set At: 3288	Perforations: From To		Unit: / Sec.: 10 / Twp.: 24 / Rge.: 37
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single	Packer Set At: 3288		County: LEA
Producing Thru: Tubing	Reservoir Temp. °F: 90	Mean Annual Temp. °F: 60	Baro. Press. – P_a: 13.2
State: N.M.			

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
3401	3401	.6897	.113	2.189		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						246	70			
1.	2.0	.375	12.5		80	236	70			1 Hr.
2.	2.0	.375	27.5		88	233	70			1 Hr.
3.	2.0	1.00	8.0		84	220	70			1 Hr.
4.	2.0	1.00	16.0		80	202	70			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	119		249.2	.9813	1.204	1.025	144
2.	164		246.2	.9741	1.204	1.024	197
3.	749		233.2	.9777	1.204	1.023	902
4.	930		215.2	.9813	1.204	1.024	1125
5.							

NO.	P_t	Temp. °R	T_t	Z
1.	.37	540	1.39	.952
2.	.37	548	1.41	.953
3.	.35	544	1.40	.956
4.	.32	540	1.39	.954
5.				

Gas Liquid Hydrocarbon Ratio: None Produced Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: Deg.
Specific Gravity Separator Gas: .6897 XXXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX
Critical Pressure: 669 P.S.I.A. 669 P.S.I.A.
Critical Temperature: 388 R 388 R

P_c 259.2 P_c^2 67.18

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1.	62.10		62.38	4.8
2.	60.61		61.15	6.03
3.	54.38		65.60	1.58
4.	46.31		63.84	3.34
5.				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 11.1409$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 11.1409$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2195$ Mcfd

Absolute Open Flow: 2195 Mcfd @ 15.025 Angle of Slope θ: 45° Slope, n: 1.00

Remarks:

Approved by Commission: Conducted By: Calculated By: Checked By: