

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

Form O-122  
Revised 6-1-63

Type of Well: <input checked="" type="checkbox"/> Horizontal <input type="checkbox"/> Vertical <input type="checkbox"/> Other		Date: 6.19.81					
Company: Gulf Oil Corp.		Fluid: Air					
Location: Loving Morrow		Well No.: K					
Test Date: 6/16/81	Initial Pressure: 12,700	Final Pressure: 12,656	Volume: 3042 GL				
Well No.: 7-5/8, 5" Liner	Set At: 12,700	From: 12,276	To: 12,313				
Well No.: 2-3/8" N/80	Set At: 12,240	From:	To:				
Type of Well: Single Gas		Company: Eddy					
Flowing Tube: Tubing	Reservoir Temp: 196°	Mean Annual Temp: 60°	Water Temp: 13.2				
12,240	12,240	.5787	1.007				
FLOW DATA		CASING DATA					
NO.	Flowing Tube	Pressure	Temp.				
1.	4 x 1.750	540	103				
2.	4 x 1.750	540	95				
3.	4 x 1.750	550	94				
4.	4 x 1.750	560	92				
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 $F_{sc}$	Rate of Flow Q, MMSCFD
1.	14.93	40.74	553.2	.9610	1.314	1.033	793
2.	14.93	74.38	553.2	.9680	1.314	1.034	1460
3.	14.93	106.13	563.2	.9688	1.314	1.036	2090
4.	14.93	149.52	573.2	.9706	1.314	1.036	2949
The Liquid Hydrocarbon Ratio: Dry				Method: M.O.S.			
NO.	R <sub>1</sub>	T <sub>1</sub> , °F	T <sub>2</sub>	Z	Specific Gravity of Liquid Hydrocarbons		
1.	.82	563	1.61	.938	Specific Gravity of Gas: .5787		
2.	.82	555	1.59	.935	Critical Density of Gas: XXXXX		
3.	.84	554	1.58	.932	Critical Pressure: 672		
4.	.85	552	1.58	.931	Critical Temperature: 350		
$C_1 = 4198.2 \quad C_2 = 17624.9$				$(1) \frac{P_1^2}{P_2^2 - P_1^2} = 1.940 \quad (2) \left[ \frac{P_1^2}{P_2^2 - P_1^2} \right]^n = 1.761$			
NO.	P <sub>1</sub>	P <sub>2</sub>	P <sub>2</sub> - P <sub>1</sub>	P <sub>1</sub> - P <sub>2</sub>	Average $\left[ \frac{P_1^2}{P_2^2 - P_1^2} \right]^n = 5.194$		
1.	3932.1	15461.4	2163.5				
2.	3679.9	13541.7	4083.2				
3.	3383.5	11448.1	6176.8				
4.	2922.4	8540.4	9084.5				
5.194				Average Flow: 49.5°			
				.854			
Company: Davis Services, Inc		Checked by: Rick Pagan					