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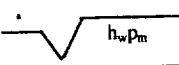
Form C-122
Revised 9-1-65

MAY 5 1997 NEW MEXICO OIL CONSERVATION COMMISSION MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

OIL CON. DIV.

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 4/4/97	
Company Mallon Oil Company		Connection LG & E	
Pool <i>S. Clarkhead Morrow</i> White City		Formation Morrow	
Completion Date 3/18/97		Total Depth 11,900	Plug Back TD 11,480
		Elevation 3,319 KB	
Csg. Size 5-1/2"	Wt. 17 and 20#	d 4,778	Set At 11,904
Perforations: From 11,198 To 11,206		Well No. 1	
Tbg. Size 2-3/8"	Wt. 4.7#	d 1,995	Set At 11,098
Perforations: From To		Unit L 11-24-26	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single Completion		Packer Set At 11,098	Farm or Lease Name O'Neill Federal
Producing Thru Tubing		Reservoir Temp. °F 189	Mean Annual Temp. °F 60
		Baro. Press. - P _a 13.2	State NM
L 11,202	H 11,202	Gg .676	% CO ₂ 0.0
		% N ₂ 2.49	% H ₂ S 0.0
Provor		Meter Run 4"	Taps Flange

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	
SI						3950		PKR		
1.	4.026 x 2.5		540	0.3	75	3850	70			1
2.	4.026 x 2.5		547	0.8	98	3350	70			1.083
3.	4.026 x 2.5		552	1.4	97	2740	68			1.083
4.	4.026 x 2.5		557	2.1	97	1950	64			1.25
5.	4.026 x 2.5									

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	 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.	32.64	12.9	554	.9859	1.216	1.057	533
2.	32.64	21.2	560	.9653	1.216	1.044	847
3.	32.64	28.1	565	.9662	1.216	1.045	1127
4.	32.64	34.6	570	.9662	1.216	1.045	1387
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.	.832	535	1.423	.895	A.P.I. Gravity of Liquid Hydrocarbons	Deg.
2.	.841	558	1.484	.917	Specific Gravity Separator Gas	XXXXXXX
3.	.848	557	1.481	.916	Specific Gravity Flowing Fluid	XXXX .676
4.	.856	557	1.481	.915	Critical Pressure	P.S.I.A. P.S.I.A.
5.					Critical Temperature	R R

P _c 3963 P _c ² 15707				
NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²
1.	14924	3866	14947	760
2.	11311	3371	11365	4342
3.	7580	2769	7670	8037
4.	3854	1996	3984	11723
5.				

(1) $\frac{P_c^2}{P_c^2 - R_w^2} = 1.34$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1606$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.158$

Absolute Open Flow 1606	Mcf/d @ 15.025	Angle of Slope	Slope, n .050
Remarks:			
Approved by Commission:	Conducted By: TL	Calculated By: REJ	Checked By:

MALLON OIL CO.
 O'NEILL FED #1
 L, 11-245-26E
 EDDY COUNTY
 4-4-97

