

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 1-21-86			
Company TENNECO OIL CO.				Connection				
Pool OTERO				Formation CHACRA				Unit
Completion Date		Total Depth 5375		Plug Back TD 5229		Elevation		Farm or Lease Name LACKEY B LS
Csq. Size 7" 4 1/2"	Wt.	d	Set At 3780 5372	Perforations: From 3648 To 3660			Well No. 12A	
Trq. Size 1 1/2"	Wt.	d	Set At 3532	Perforations: From To			Unit Sec. Twp. Rge. N 21 28 9	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple					Packer Set At 3668		County SAN JUAN	
Producing Thru		Reservoir Temp. °F		Mean Annual Temp. °F		Baro. Press. - P _a		State NEW MEXICO
L	H	Cg .680	% CO ₂	% N ₂	% H ₂ S	Prover	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	
SI							980		980		
1.	2x6x.75						130		520	48	3 hours
2.											
3.											
4.											
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	11		142	1.012	1.213	1.0169	1949
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1	.21	508	1.32	.967	A.P.I. Gravity of Liquid Hydrocarbons	Deg.
2.					Specific Gravity Separator Gas	X X X X X X X X
3.					Specific Gravity Flowing Fluid	X X X X X
4.					Critical Pressure	P.S.I.A.
5.					Critical Temperature	R

$P_c = 992$ $P_w^2 = 984064$					$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.4037$		$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.3341$	
NO.	P _i	P _w	P _w ²	P _c ² - P _w ²				
1		532	283024	701040				
2								
3								
4								
5								

$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2600$					Absolute Cpm Flow 2600 Mcfd @ 15.025		Angle of Slope @ Slope, n .85	
Remarks:								

Approved by Division	Conducted by:	Calculated by:	Checked by:
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