

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

Form C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 3-24-81	
Company Petty Oil Co.		Connection Not Connected	
Pool Basin		Formation Dakota	
Completion Date 3-11-81		Total Depth 6250	
Csg. Size 5.500		Wt. 15.5	
d 4.950		Set At 6250	
Perforations: From 6092 To 6117		Well No. 1 E	
Tbg. Size 2.375		Wt. 4.70	
d 1.995		Set At 6092	
Perforations: From Open To Ended		Unit Sec. Twp. Rge. P 10 27N 12W	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single Gas		Packer Set At	
Producing Thru Tubing		Reservoir Temp. °F @	
Mean Annual Temp. °F		Baro. Press. - P _a 12.0	
State New Mexico		County San Juan	
L 6092		H 6092	
G _g .69L		% CO ₂	
% N ₂		% H ₂ S	
Prover 2.000		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							1682	60	1682		24.0 Hr.
1.	2.000	x	.750				350	60	794		1st Hr.
2.	2.000	x	.750				265	60	555		2nd Hr.
3.	2.000	x	.750				174	60	505		3rd Hr.
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	11.000		362	1.000	1.200	1.016	4998
2	11.000		277	1.000	1.200	1.032	3773
3	11.000		186	1.000	1.200	1.051	2597
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	1000 to 2 BBL	Mcf/bbl.
1					A.P.I. Gravity of Liquid Hydrocarbons	48.5-60	Deg.
2.					Specific Gravity Separator Gas	XXXXXX	
3.					Specific Gravity Flowing Fluid	XXXXX	
4.					Critical Pressure	P.S.I.A.	
5.					Critical Temperature	R	

P _c	1694	P _c ²	2869636
NO.	P _r ²	P _w	P _w ²
1			
2			
3	34596	517	267239
4			
5			

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.1027$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0761$$

$$ACF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2698$$

Absolute Open Flow	2,698	Mcf/d @ 15.025	Angle of Slope °	Slope, n	.75
--------------------	-------	----------------	------------------	----------	-----

Remarks:			
Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Paul D. Berhost	Paul D. Berhost	