

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 9/30/66			
Company Sinclair Oil & Gas Company				Connection None				
Pool Jalmat				Formation Yates-Seven Rivers				Unit
Completion Date 9/28/66		Total Depth 3816		Plug Back TD 3685		Elevation 3603		Farm or Lease Name State 157 B
Csg. Size 7	Wt. 24	d 6.336	Set At 3740	Perforations: From 3430 To 3638		Well No. 1		
Tbg. Size 2 3/8	Wt. 4.70	d 1.995	Set At 3385	Perforations: From open To ended		Unit C	Sec. 7	Twp. 22S Rge. 36E
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single					Packer Set At 3385		County Lea	
Producing Thru Tubing		Reservoir Temp. °F 90 @ 3430		Mean Annual Temp. °F 60°		Baro. Press. - P _a 13.2		State N. M.
L 3385	H 3385	G _g .660	% CO ₂ --	% N ₂ --	% H ₂ S --	Prover X	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							531		Packer		52
1.	2 X 7/8			19.0		58	481	80			1
2.	2 X 7/8			33.5		54	462	80			1
3.	2 X 1 1/8			24.0		52	438	80			1
4.	2 X 1 1/8			37.0		52	334	80			1
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	13.00		32.2	1.002	1.231	1.055	545
2	13.00		46.7	1.006	1.231	1.055	793
3	21.89		37.2	1.008	1.231	1.053	1064
4	21.89		50.2	1.008	1.231	1.041	1419
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1	0.74	518	1.37	.898	*	*	.660	X X X X X X X X	670	378
2	0.71	514	1.36	.899						
3	0.67	512	1.35	.902						
4	0.52	512	1.35	.923						
5										

NO.	P _c	P _w	P _c ²	P _w ²	P _c ² - P _w ²
1	544.2	498.0	296.2	248.0	48.2
2		483.5		233.8	62.4
3		467.1		218.2	78.0
4		383.3		146.9	149.4
5					

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

ACF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$ **Read from slope**

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

Absolute Open Flow 2,400 Mcfd @ 15.025	Angle of Slope θ _____	Slope, n 0.665
Remarks: * Trace oil. TSTM in test tank		
Approved By Commission:	Conducted By: <i>H. L. Smith</i>	Calculated By: <i>Norman Miller</i>
		Checked By: