

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 9-21-77		NOV 7 1977	
Company Mesa Petroleum Co.		Connection Air		MESA-PED	
Well White City Penn. Underdrilled		Formation Morrow		O.C.C. ARTESIA, OFFICE	
Completion Date 9-17-77		Total Depth 11303		Plug Back TD 11253	
Elevation 3285GL		Form or Lease Name Strong Fed Com.		Well No. 1	
Casing Size 5.00"		Set At 11303		Perforations From 10858 To 11164	
Tubing Size 2.875EUE		Set At 10796		Perforations From To	
Type Well - Single - Broadhead - G.C. or G.O. Multiple Single Completion		Packer Set At 10796		County Eddy	
Producing Thru Tubing		Reservoir Temp. °F 186		Mean Annual Temp. °F 60	
Baro. Press. - P _a 13.2		State New Mexico		Meter Run X	
L 11011		H 11011		Cg 0.590	
% CO ₂ 1.39		% N ₂ 0.22		% H ₂ S 0.00	
Prover 11011		Taps X			

FLOW DATA						TUBING DATA		CASING DATA		Direction of Flow
Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
SI						3730	70			68 hrs
1.	4.00	1.75	630	10.00"	98	3275	70			1.00 Hr.
2.	4.00	1.75	640	18.00"	103	3050	70			1.00 Hr.
3.	4.00	1.75	640	35.00"	102	2530	70			1.00 Hr.
4.	4.00	1.75	650	56.00"	102	1955	75			1.00 Hr.
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, Mgd
1.	14.93	80.200	643.20	0.9653	1.3022	1.0410	1567
2.	14.93	108.432	653.20	0.9611	1.3022	1.0400	2107
3.	14.93	151.202	653.20	0.9619	1.3022	1.0400	2941
4.	14.93	192.715	663.20	0.9619	1.3022	1.0410	3752
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/Std.
1.	0.95	558	1.58	0.905	A.P.I. Gravity of Liquid Hydrocarbons	None Produced
2.	0.97	563	1.59	0.904	Specific Gravity Separator Gas	0.590
3.	0.97	562	1.59	0.905	Specific Gravity Flowing Fluid	0.590
4.	0.98	562	1.59	0.903	Critical Pressure	676 P.S.I.A.
5.					Critical Temperature	353 R

NO.	P _r ²	P _w	P _w ²	P _r ² - P _w ²	(1) $\frac{P_r^2}{P_r^2 - P_w^2}$	(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n$
1.	3743.2	3266.2	10668	3343	1.40302	1.3045
2.		3087.3	9531	4480		
3.		2562.3	6565	7446		
4.		2006.2	4025	9987		
5.						

Absolute Open Flow				Angle of Slope		Slope	
4894				51.85		0.785	