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Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 8-3-77				AUG 9 1977			
Company C & K Petroleum Inc.,				Connection Transwestern Pipe Line Co.				O.C.C. OFFICE			
Pool South Carlsbad <i>Morrow</i>				Formation Morrow				ARTESIAN			
Completion Date 6-15-77		Total Depth 11701		Plug Back TD 11480		Elevation		Farm or Lease Name Carlsbad 13			
Csg. Size 5 1/2	Wt. 17 & 20	d	Set At 11701	Perforations: From 11298 To 11449		Well No. 1					
Tbg. Size 2 7/8	Wt. 6.58	d	Set At 11217	Perforations: From Open To End		Unit B 613		Sec. 22-S		Twp. Rys. 26-E	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 11237		County Eddy					
Producing Thru Tubing		Reservoir Temp. °F 196 @ 11375		Mean Annual Temp. °F 70		Baro. Press. - P _a 13.2		State			
L 151	H 11298	G _g .585	% CO ₂ 1.04	% N ₂ .55	% H ₂ S .06	Prover		Meter Run 4.026		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							3164	76			
1.	4.026 x 1.875			305	2	66	3015	80	Packer		60 min.
2.	"			315	4	66	2990	84			60 min.
3.	"			320	8	68	2858	90			60 min.
4.	"			320	12	69	2738	96			75 min.

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor F _{pv}	Rate of Flow Q, Mcfd
1	1726	25.2270	318.2	.9943	1.307	1.022	578
2	"	36.2326	328.2	.9943	"	1.022	831
3	"	51.6294	333.2	.9924	"	1.023	1182
4	"	63.2329	333.2	.9915	"	1.023	1447
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1					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. _____ P.S.I.A.
5					Critical Temperature _____ R _____ R

P _c 3177.2 P _c ² 10,095				(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 5.4538$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3.3923$	
NO.	P _r	P _w	P _w ²	P _c ² - P _w ²			
1		3071.2	9432	663			
2		3003.2	9019	1076			
3		2871.2	8244	1851*			
4		2751.2	7569	2526			
5							

Absolute Open Flow 4010 Mcfd @ 15.025		Angle of Slope 53.5		Slope, n .7201	
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Remarks: * Used to calculate A.O.F.			
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Approved By Commission:	Conducted By: C. Allen Dorsey	Calculated By: C. Allen Dorsey	Checked By:
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