

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

Form C-122
Revised 9-1-65

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Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 12-31-76		JAN 07 1977 U.S. GEOLOGICAL SURVEY ARTESIA, NEW MEXICO	
Company C & K Petroleum, Inc.				Connection Transwestern			
Pool White City Penn.				Formation Morrow		Unit ARTESIA, OFFICE	
Completion Date 8-24-76		Total Depth 11760		Plug Back TD 11426		Elevation 3321.1 Gr	
Csg. Size 5 1/2		Wt. 20		Set At 11760		Perforations: From 11343 To 11419	
Tbg. Size 2 7/8		Wt. 6.50		Set At 11268		Perforations: From To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 11268		County Eddy	
Producing Thru Tubing		Reservoir Temp. °F 196 @ 11181		Mean Annual Temp. °F 70		Baro. Press. - P _a 13.2	
L 11381		H 11381		G _g 0.573		% CO ₂ % N ₂ % H ₂ S Prover Meter Run Taps X 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	47 hrs.						2766		Pkr		
1.	2"	X	1.00"	345	2.5	45	2700	70	"		60 min.
2.	2"	X	1.00"	350	8.5	60	2620	70	"		60 min.
3.	2"	X	1.00"	355	16.0	75	2520	70	"		60 min.
4.	2"	X	1.00"	360	35.0	75	2339	70	"		60 min.
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	4.946	29.9249	358.2	1.0150	1.321	1.028	204.0
2	4.946	55.5625	363.2	1.0000	1.321	1.026	372.5
3	4.946	76.7542	368.2	0.9859	1.321	1.023	505.8
4	4.946	114.2891	373.2	0.9859	1.321	1.024	753.9
5							

NO.	P _t	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio	Dry Gas	Mcf/obl.
1	Used simplified				A.P.I. Gravity of Liquid Hydrocarbons	None	Deg.
2	supercompressibility tables				Specific Gravity Separator Gas	0.573	X X X X X X X X
3					Specific Gravity Flowing Fluid	X X X X X	
4					Critical Pressure	672	P.S.I.A. P.S.I.A.
5					Critical Temperature	346	R R

P _f 3557.2 P _f ² 12654				(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 3.521848$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.583108$	
NO.	P _t ²	P _s	P _s ²	P _f ² - P _s ²			
1		3466.2	12015	639			
2		3363.2	11311	1343			
3		3239.2	10492	2162			
4		3010.2	9061	3593			
5							

Absolute Open Flow 1947.4 Mcfd @ 15.025				Angle of Slope @ 53°		Slope, n 0.753776	
Remarks: BHP measurements made with Amerada RPG-3 gauge Ser. No. 12468N 0-6000 psi							
Approved By Commission:		Conducted By: Tefteller, Inc.		Calculated By: E. Tefteller		Checked By:	