

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

Form C-122
Revised 9-1-65

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 10-9-77		NOV 16 1977	
Company C & K Petroleum Inc.						Connection Pending			
Pool South Carlsbad				Formation Morrow		Unit O.C.C. ARTEBIA OFFICE			
Completion Date 10-1-77		Total Depth 11,698		Plug Back TD 11168		Elevation 3119 Gr.		Farm or Lease Name Carlsbad	
Csg. Size 5 1/2	Wt. 17	d 4.892	Set At	Perforations: From 11128 To 11134		Well No. 1			
Tbg. Size 2 7/8	Wt. 6.50	d 2.441	Set At 11056	Perforations: From Open To End		Unit Sec. Twp. Rge. M 7 22S 21E			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single						Packer Set At 11,055		County Eddy	
Producing Thru Tubing		Reservoir Temp. °F 190 @ 11130		Mean Annual Temp. °F 70		Baro. Press. - P _a 13.2		State NM	
L 6	H 11128	G _g .585	% CO ₂	% N ₂	% H ₂ S Nil	Prover	Meter Run 3.068	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
1.	3.068	1.250		600	3	76	3618	64			
2.	"	"		620	10.5	80	3270	70	Packer		3 hrs.
3.	"	"		620	17	80	2722	72			3 hrs.
4.	"	"		625	28.5	76	2016	72			3 hrs.
5.							1010	66			3 hrs.

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.	7.577	42.8905	613.2	76	1.307	1.048	438
2.	"	81.5389	633.2	80	"	1.045	828
3.	"	103.7516	633.2	80	"	1.045	1054
4.	"	134.8655	638.2	76	"	1.048	1379
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.					None	.585				
2.										
3.										
4.										
5.										

P _c 3621.2	P _c ² 13113	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.087$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0589$
NO.	P _w	P _w ²	P _c ² - P _w ²
1	3283.2	10779	2334
2	2735.2	7481	5632
3	2029.2	4118	8995
4	1023.2	1047	12066
5			

Absolute Open Flow 1460 Mcfd @ 15.025		Angle of Slope θ 55.5	Slope, n .688
Remarks:			
Approved by Commission: _____ Conducted By: <i>C. Allen Porey</i> Calculated By: <i>C. Allen Porey</i> Checked By: _____			