

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

Form C-127
Revised 5-1-65

Type Test: ☒ Initial ☐ Annual ☐ Special				Test Date: 9-11-74	
Company: <u>Coastline Petroleum Inc</u>				Connection: <u>None</u>	
Pool: <u>Wildcat Blanco</u>				Formation: <u>Mesa Verde</u>	
Completion Date: 9-11-74		Total Depth: 5975		Elevation: 6486 Gr	
Well No.: 2		Farm or Lease Name: <u>Schalk '55'</u>			
Drill. Size: 4 1/2	Wt.: 10.5	Set At: 5975	Perforations: From 5684 To 5786		Well No.: 2
Log Size: 2 3/8 EUE	Wt.: 4.7	Set At: 5714	Perforations: From To		Unit: A
Type Well - Single - Prodenhead - G.G. or G.O. Multiple			Packer Set At		County: Rio Arriba
Producing Time: <u>Tubing</u>		Reservoir Temp. °F: 174 @ 5648	Mean Annual Temp. °F: 60	Baro. Press. - P _a : 12.0	State: New Mexico
L: 5735	H: 5735	G _g : .64	% CO ₂	% N ₂	% H ₂ S
			Prover: X	Meter Run	Tags

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	2.0		3/16	1100		70	1155	70	1105	70	1 Hr
2	2.0		7/32	1057		70	1057	70	1070	70	1 Hr
3	2.0		1/4	1004		70	1004	70	1027	70	1 Hr
4	2.0		5/16	905		70	905	70	957	70	1 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 _{spv}	Rate of Flow Q, Mscf
1	.6082		1112	.9905	1.2500	1.111	930
2	.8393		1069	.9905	1.2500	1.108	1231
3	1.087		1016	.9905	1.2500	1.077	1473
4	1.672		917	.9905	1.2500	1.091	2071
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	1.66	530	1.42	.810	No Fluid Produced					
2	1.60	530	1.42	.815						
3	1.52	530	1.42	.862						
4	1.37	530	1.42	.840						
5										

NO.	P _r	P _w	P _r ²	P _w ²	P _r ² - P _w ²
1	1117	1248	1248	107	
2	1082	1171	1171	184	
3	1039	1080	1080	275	
4	969	939	939	416	
5					

(1) $\frac{P_r^2}{P_r^2 - P_w^2} = \frac{1355}{416}$

(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 2.07496$

AOF = Q $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 4297$

Gas Liquid Hydrocarbon Ratio: No Fluid Produced Vol/bbl.

A.P.I. Gravity of Liquid Hydrocarbons: _____ Deg.

Specific Gravity Separator Gas: XXXXXXXXXX

Specific Gravity Flowing Fluid: XXXXXX

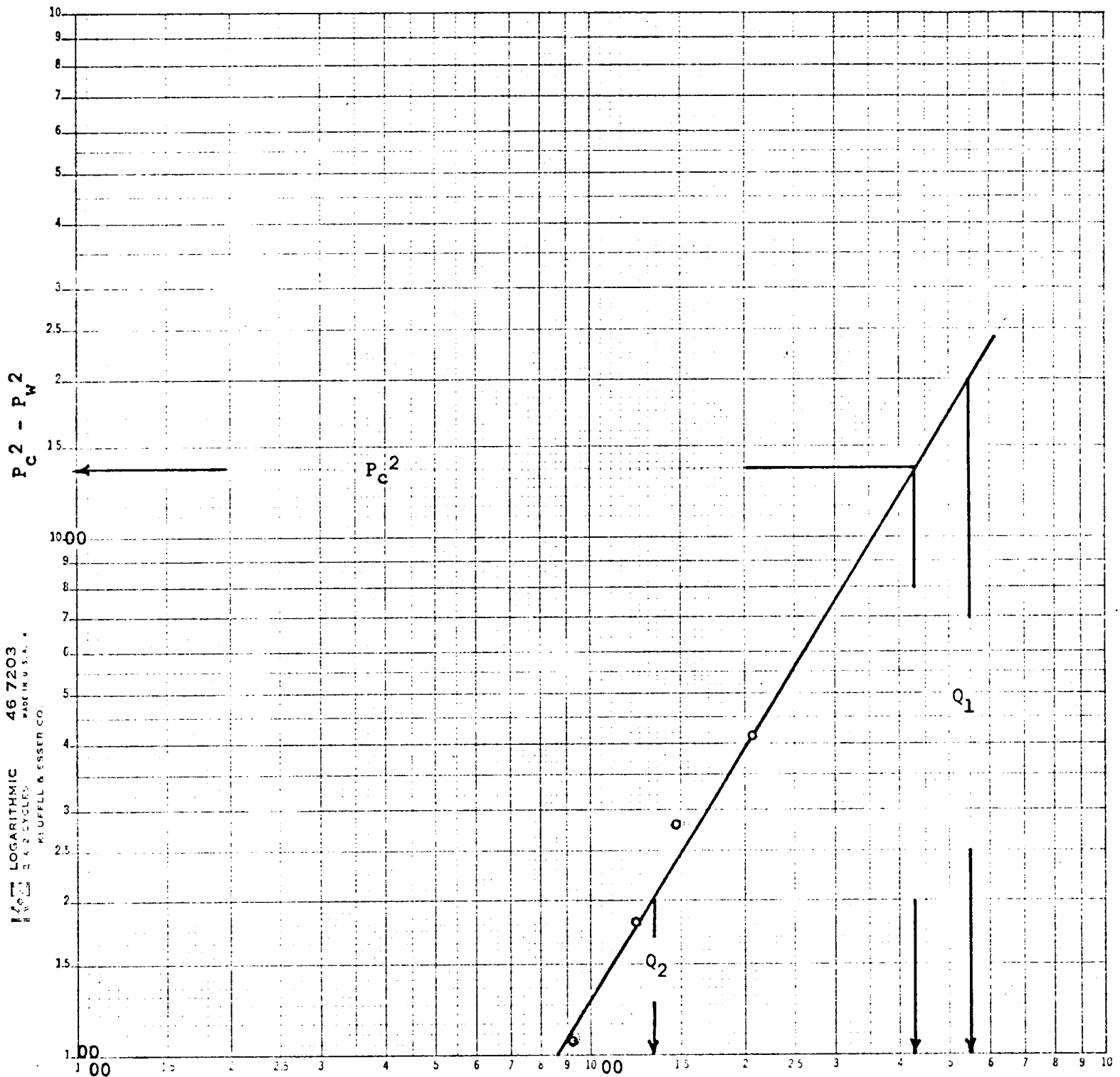
Critical Pressure: 670 P.S.I.A.

Critical Temperature: 372 °R

Available Gas Flow: 4297 Mscf @ 15.025 Angle of Slope: 58° 17' Slope, n: .618

Remarks: _____

OPERATOR	Coastline Petroleum
LEASE	Schalk '55'
WELL NO.	2
FIELD	Wildcat
COUNTY	Rio Arriba
DATE	9-11-74



Q in Mcf/Day	$Q_1 = 5500$	$\text{Log } Q_1 = 3.74036$
$\theta = 58^\circ 17'$	$Q_2 = 1325$	$\text{Log } Q_2 = 3.12222$
$n = .618$		<u>.61814</u>

Absolute Open Flow = 4297 Mcf/Day