

HOBBS OFFICE OCC Form C-122

5 PM Revised 12-1-55
2:08

OBSERVED DATA

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Pressure) (Line) Size	(Diameter) (Orifice) Size	Press.	Diff.	Temp.	Press.	Temp.	Press.	Temp.	
			psig	h_w	$^{\circ}\text{F.}$	psig	$^{\circ}\text{F.}$	psig	$^{\circ}\text{F.}$	
SI										
1.	4	1.000	203	23.04	67			612		72
2.	4	1.000	205	28.09	80			472		24
3.	4	1.000	231	34.21	73			435		24
4.	4	1.000	231	42.25	78			361		24
5.								297		24

FLOW CALCULATIONS							
No.	Coefficient Flange (24-Hour)	$\sqrt{h_{wPf}}$	Pressure psia	Flow Temp. Factor F_t	Gravity Factor F_g	Compress. Factor F_{pv}	Rate of Flow Q-MCFPD @ 15.025 psia
1.	6.135	70.55		.9933	.9571	1.020	420
2.	6.135	78.25		.9813	.9571	1.019	459
3.	6.135	92.16		.9877	.9571	1.022	546
4.	6.135	101.53		.9831	.9571	1.022	599
5.							

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
Gravity of Liquid Hydrocarbons _____ deg.
c. 0.4792 (1-e⁻⁵) 0.124
Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
P_c 625.2 P_c² 390.9

No.	P _t	F _{cQ}	(F _{cQ}) ²	(F _{cQ}) ² (1-e ^{-S})	P _w ²	P _C ² -P _w ²	Cal. P _w	P _w / P _C
1.	485.2	.201	.040	.095	235.4	155.5		
2.	448.2	.226	.048	.096	209.9	199.0		
3.	374.2	.261	.068	.098	140.0	259.9		
4.	310.2	.287	.082	.010	96.2	294.7		
5.								

Absolute Potential: 710 MCFPD; n .602
 COMPANY Southern California Petroleum Corporation
 ADDRESS Box 1071, Midland, Texas
 AGENT and TITLE Joe A. Coleman, P.E., New Mexico, Cert. No. 2208
 WITNESSED Well tested by El Paso Natural Gas Company
 COMPANY Beal-Coleman Engineering Company

REMARKS

INSTRUCTIONS

This form is to be used for reporting multi-point back pressure tests on gas wells in the State, except those on which special orders are applicable. Three copies of this form and the back pressure curve shall be filed with the Commission at Box 871, Santa Fe.

The log log paper used for plotting the back pressure curve shall be of at least three inch cycles.

NOMENCLATURE

Q = Actual rate of flow at end of flow period at W. H. working pressure (P_w).
MCF/da. @ 15.025 psia and 60° F.

P_c = 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater.
psia

P_w = Static wellhead working pressure as determined at the end of flow period.
(Casing if flowing thru tubing, tubing if flowing thru casing.) psia

P_t = Flowing wellhead pressure (tubing if flowing through tubing, casing if flowing through casing.) psia

P_f = Meter pressure, psia.

h_w = Differential meter pressure, inches water.

F_g = Gravity correction factor.

F_t = Flowing temperature correction factor.

F_{pv} = Supercompressibility factor.

n = Slope of back pressure curve.

Note: If P_w cannot be taken because of manner of completion or condition of well, then P_w must be calculated by adding the pressure drop due to friction within the flow string to P_t .

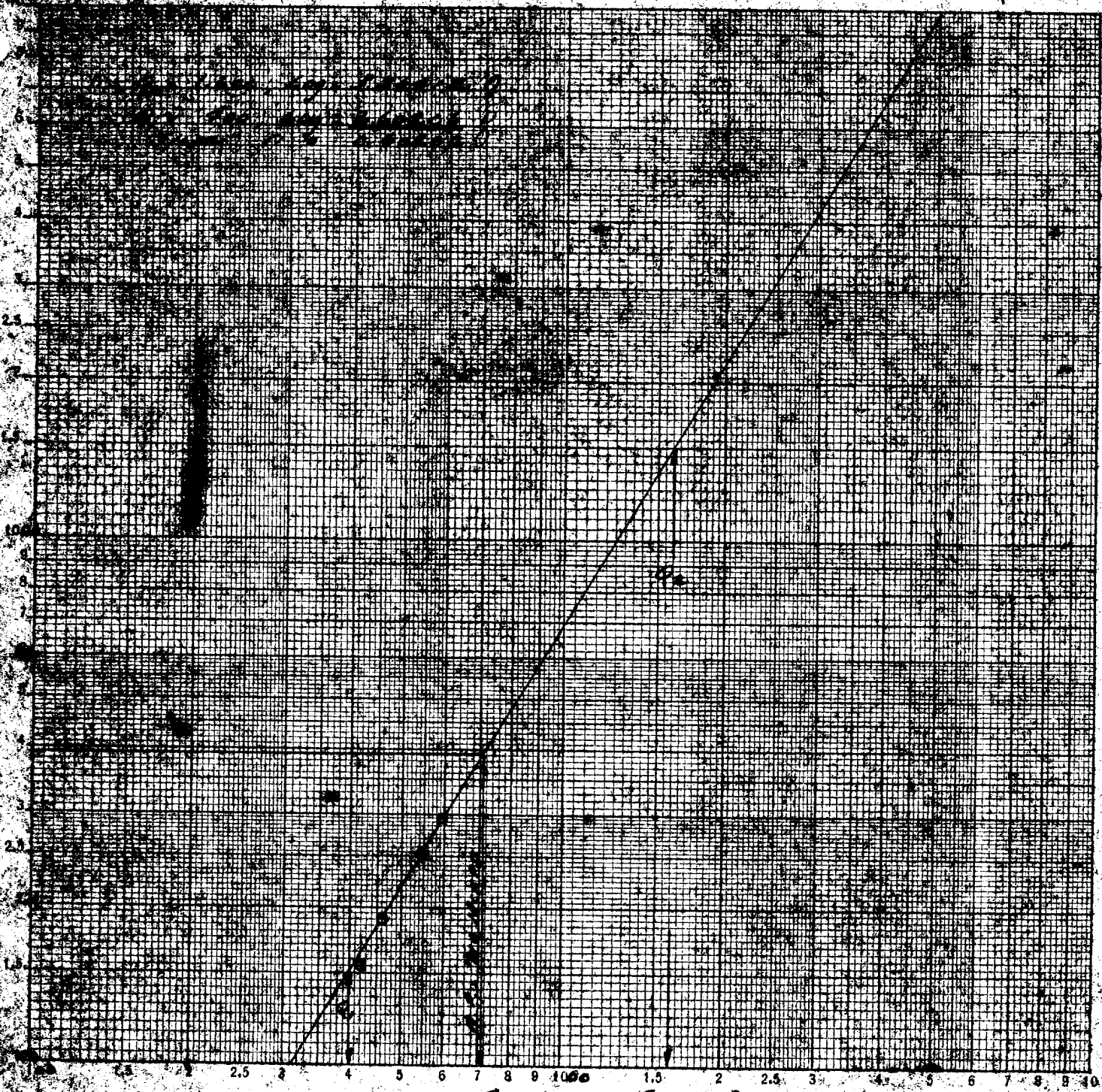
So. Calif. Pet. Corp.

MARTIN #2

A-91-24-37; Lea Co., N.M.

4-26-57

Pressure vs. Flow Rate
4-26-57



Q - MCFAD (5.025' per 60" H)