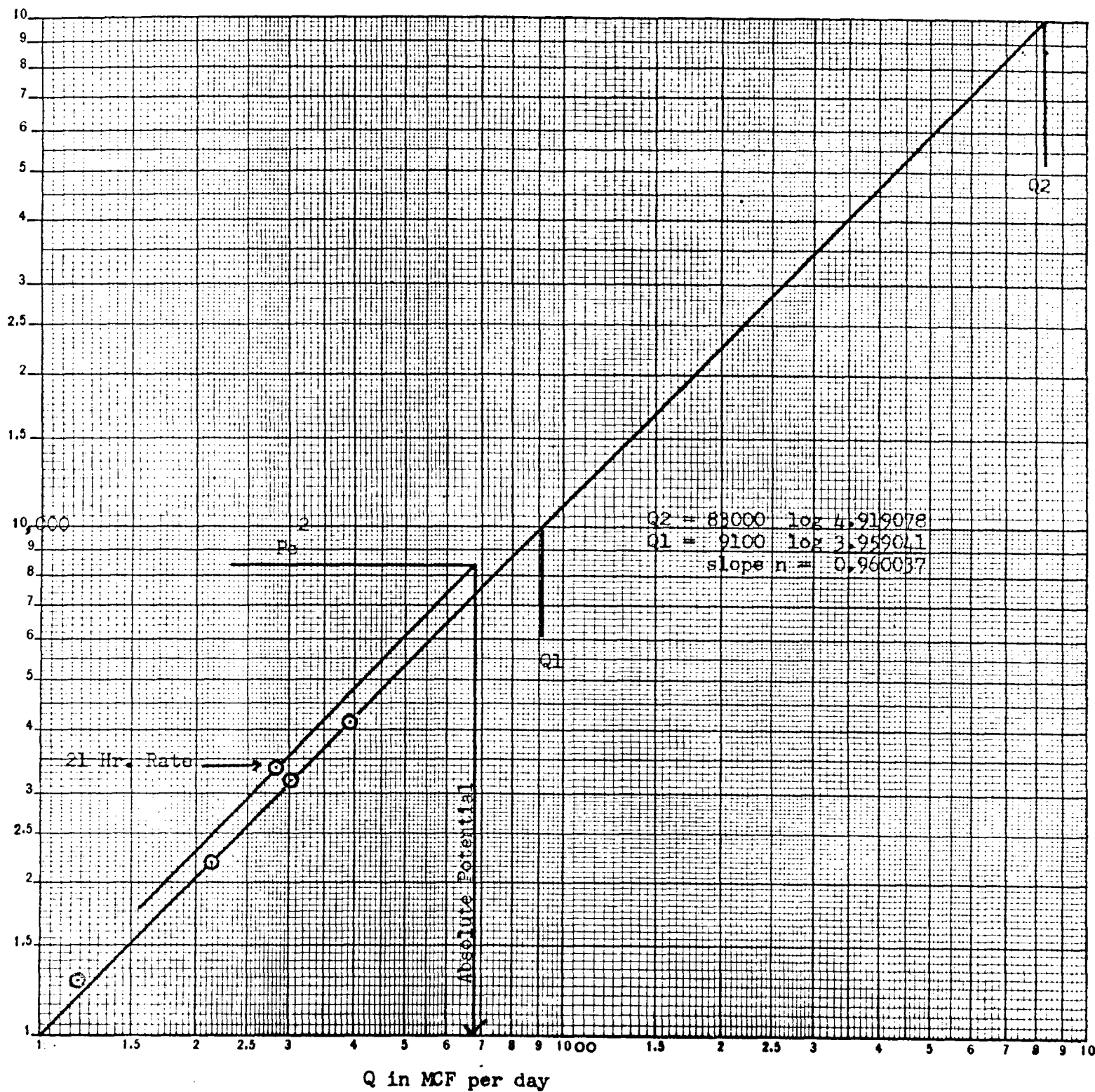


Gulf Oil Corporation
 Hackberry Hills Unit No.1
 Unit 0 Sec.1 T22S R25E
 Eddy Co. N.M.
 August 14-15, 1961
 Absolute Potential 6800 MCF



NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised 12-1-55

Pool Wildcat Formation Penn County EddyInitial X Annual _____ Special _____ Date of Test Aug. 14-15, 1961Company Gulf Oil Corporation Lease Hackberry Hills Unit Well No. 1Unit 0 Sec. 1 Twp. 22S Rge. 25 E Purchaser None*Casing 7 5/8 Wt. 26.40 I.D. 6.969 Set at 8373 Perf. 9622 To 9654Tubing 2 3/8 Wt. 4.70 I.D. 1.995 Set at 9622 Perf. _____ To _____Gas Pay: From 9622 To 9654 L 9622 xGMix .754 -GL 7255 Bar.Press. 13.2Producing Thru: Casing _____ Tubing X Type Well SingleDate of Completion: Aug. 15, 1961 Packer 9599 Single-Bradenhead-G. G. or G.O. Dual Reservoir Temp. _____*Liner 5 1/2 17.0# 8241-9723

OBSERVED DATA

Tested Through (~~ROVER~~) (~~COCK~~) (Meter) Type Taps Flange

Flow Data						Tubing Data		Casing Data		Duration of Flow Hr.
No.	(Pressure) (Line) Size	(Gauge) (Orifice) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI	Choke					2884				
1.	10/64 4	2.00	520	4.0	68	2643				2.25
2.	13/64 4	2.00	560	12.5	88	2440				1.50
3.	16/64 4	2.00	585	23.0	72	2188				2.00
4.	20/64 4	2.00	620	37.0	76	1900				2.00
5.	17/64 4	2.00	568	21.0	75	2156				21.00

FLOW CALCULATIONS

No.	Coefficient (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.	25.58	46.18	533.2	.9924	.9682	1.053	1195
2.	25.58	84.65	573.2	.9741	.9682	1.049	2142
3.	25.58	117.30	598.2	.9887	.9682	1.055	3030
4.	25.58	153.06	633.2	.9850	.9682	1.059	3954
5.	25.58	110.48	581.2	.9859	.9682	1.053	2841

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio 22,100 cf/bbl.
Gravity of Liquid Hydrocarbons 61.5 deg.
P_c 9.936 (1-e^{-s}) 0.393Specific Gravity Separator Gas .640
Specific Gravity Flowing Fluid .7332
P_c 2897.2 P_c² 8393.8

No.	P _w P _t (psia)	P _t ²	F _c Q	(F _c Q) ²	(F _c Q) ² (1-e ^{-s})	P _w ²	P _c ² -P _w ²	Cal. P _w	P _w / P _c
1.	2656.2	7055.4	11.87	140.9	55.4	7110.8	1283.0	2667	.92
2.	2453.2	6018.2	21.28	452.8	178.0	6196.2	2197.6	2489	.86
3.	2201.2	4845.3	30.11	906.6	356.3	5201.6	3192.2	2281	.79
4.	1913.2	3660.3	39.29	1543.7	606.7	4267.0	4126.8	2065	.71
5.	2169.2	4705.4	28.23	796.9	313.2	5018.6	3375.2	2240	.77

Absolute Potential: 6,800 MCFPD; n .960COMPANY Gulf Oil CorporationADDRESS Box 2167, Hobbs, New MexicoAGENT AND TITLE M. L. Smith Independent Gas Tester, Box 763, Hobbs, New Mexico

WITNESSED _____

COMPANY _____

REMARKS

Case No. 2843
Exhibit No. 2
June 26, 1963

LARGE FORMAT
EXHIBIT HAS
BEEN REMOVED
AND IS LOCATED
IN THE NEXT FILE