

NEW MEXICO OIL CONSERVATION COMMISSION

RECEIVED

AUG 21 1961

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 (XXXXX) (XXXXX) (Meter)Type Taps Flange

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Choke) (Line) Size	(Choke) (Orifice) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI	Choke					2384				166.0
1.	10/64	2.00	520	4.0	68	2643				2.25
2.	13/64	2.00	560	12.5	88	2440				1.50
3.	16/64	2.00	585	23.0	72	2188				2.00
4.	20/64	2.00	620	37.0	76	1900				2.00
5.	17/64	2.00	568	21.0	75	2156				21.00

FLOW CALCULATIONS

No.	Coefficient (24-Hour)	$\sqrt{h_w P_f}$	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.
 γ_c 0.936 (1-e^{-s}) 0.393

Specific Gravity Separator Gas .610
 Specific Gravity Flowing Fluid .7332
 P_c 2897.2 P_c^2 8393.8

No.	P_w P_t (psia)	P_c^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	$\frac{P_w}{P_c}$
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	172.0	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 J. L. Smith Independent Gas Tester, Box 763, Hobbs, New Mexico

WITNESSED

COMPANY

REMARKS