

WELL FILE

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool LUSK Formation MORROW County LEA
Initial X Annual _____ Special _____ Date of Test 4-26-63
Company S.P. YATES PET. CO. Lease ELLIOTT HALL Well No. 1
Unit A Sec. 12 Twp. 19-S Rge. 32E Purchaser _____
Casing 5.5" Wt. 17# I.D. 4.892 Set at 12433 Perf. 12354 To 12399
Tubing 2.063 Wt. _____ I.D. 1.75 Set at 12350 Perf. _____ To _____
Gas Pay: From 12354 To 12399 L 12.377 xG 0.670 -GL 8293 Bar. Press. 13.2
Producing Thru: Casing _____ Tubing X Type Well SINGLE W/ ANNULAS PACKED
Single-Bradenhead-G. G. or G.O. Dual _____ OFF
Date of Completion: _____ Packer. 12061 Reservoir Temp. _____

OBSERVED DATA

Tested Through (Prover) (CHK) (MEX)

Type Taps _____

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Prover) (CHK) Size	(Choke) (Orifice) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI			3645							72 HRS. PLUS
1.	2"	0.125	3160		80					3 HR. 0 MIN.
2.	2"	0.187	2810		72					1 HR. 15 MIN.
3.	2"	0.250	2320		76					1 HR. 45 MIN.
4.	2"	0.312	1965		78					1 HR. 30 MIN.
5.										

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.	0.3418		3173	0.9813	.9463	1.145	1153
2.	0.7851		2823	0.9887	.9463	1.172	2430
3.	1.4030		2333	0.9850	.9463	1.183	3609
4.	2.1577		1978	0.9831	.9463	1.181	4690
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
Gravity of Liquid Hydrocarbons _____ deg.
P_c 13.99 (1-e^{-s}) 0.435

Specific Gravity Separator Gas 0.670
Specific Gravity Flowing Fluid _____
P_c 3658 P_c 13381

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.	3173	10068	16.130	260	113	1018.3	3188	3165	.865
2.	2823	7969	33.996	1156	503	8472	4909	2907	.795
3.	2333	5443	50.490	2549	1109	6552	6829	2571	.703
4.	1978	3912	65.613	4305	1873	5785	7596	2405	.657
5.									

Absolute Potential: 8.2 MCFPD; n 1.00
COMPANY U.J. BRAMMER & SONS, INC.
ADDRESS 5425 ANDREWS HWY.
AGENT and TITLE FARRIS L. BENHAM GEN. MGR.
WITNESSED _____
COMPANY S.P. YATES PET. CO.

REMARKS

SECOND TEST. A LIMITED SLOPE OF 1.00 WAS DRAWN THROUGH THE HIGHEST RATE OF FLOW TO CALCULATE THE POTENTIAL.