

Pool Eumont Queen Lea
 Initial X Date of Test 12-18 to 12-19, 1956
 Company Humble Oil & Ref. Co. Humble State Aggies Well No. 7
 Unit B 31 20 S 37 E El Paso Natural Gas Company
 Casing 5 1/2 wt. 17 4.892 3740 3305 To 3345
 Tubing 2 wt. 4.7 1.995 3444 3440 To 3444
 Gas Pay: From 3305 To 3430 3440 0.675 2322 Bar.Press. 13.2
 Producing thru: Casing X Single
 Date of Completion: 7-24-53 3280 90

Tested Through (Proved) 00626000000000

Type Taps -

No.	Flow Data		Casing Data		Duration of Flow Hr.
	(Prover) (Wire) Size	(Choke) (Orifice) Size	Press. psig	Temp. °F.	
SI					
1.	2	0.187	64	966	72
2.	2	0.250	67	956	1.5
3.	2	0.375	68	945	1.25
4.	2	0.500	67	890	2
5.				792	1

No.	Flow Coefficient	Pressure	Flow	Compress. Factor	Rate of Flow Q-MCFPD @ 15.025 psia
1.	0.7851	969.2	0.9962	0.9427	796
2.	1.403	958.2	0.9933	0.9427	1394
3.	3.0691	903.2	0.9924	0.9427	2860
4.	5.5233	805.2	0.9933	0.9427	4543
5.					

Gas Liquid Hydrocarbon Ratio 0.148
 Gravity of Liquid Hydrocarbons 9.936
 Gravity Separator Gas 979.2
 Gravity Flowing Fluid 958.8

No.	P_w I_t (psia)	P_h	P_g	$(P_h - P_g)$	$P_g - P_w$ $(1 - \frac{P_g}{P_h})$	P_h	$P_h^2 - P_w^2$ $(P_h + P_w)(P_h - P_w)$	Cal. P_w	$\frac{P_w}{P_c}$
1.	969.2	939.3	7.91	62.56	9.3	948.6	10.2	974.0	0.994
2.	958.2	918.1	13.85	191.8	28.4	946.5	12.3	972.9	0.993
3.	903.2	815.8	28.42	808.3	119.6	935.4	23.4	967.2	0.987
4.	805.2	648.3	45.14	2037.6	301.6	949.9	8.9	974.6	0.995
5.									

Absolute Potential: see letter

see letter

COMPANY Humble Oil & Ref. Co.

ADDRESS Box 2347

AGENT and TITLE M. M. Brown District Superintendent

WITNESSED Mabe and Littlefield

COMPANY El Paso Natural Gas Co.

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 .