

NEW YORK STATE DEPARTMENT OF CONSERVATION  
ROCKS OFFICE GOC  
MULTI-POINT TEST FOR GAS WELLS

Form C-122  
Revised 12-1-55

Pool Eumont 1000 GGT-412 MI 10 21 County Lea

Initial --- Annual X Special --- Date of Test 9-30-56

Company General Crude Oil Company Lease State G Well No. 1

Unit D Sec. 16 Twp. 20-S Age. 37-E Purchaser Permian Basin Pipe Line Company

Casing 7 Wt. 26.0# I.D. 6.276 Set at 3764 Perf. 3294 To 3360

Tubing 2 1/2 Wt. 6.5# I.D. 2.441 Set at 3684 Perf. None To ---

Gas Pay: From 3294 To 3360 3294 xG 0.670 -GL 2207 Bar.Press. 13.2

Producing Thru: Casing X Tubing --- Type Well G. O. Dual

Date of Completion: July 25, 1955 Packer Yes Single-Bradenhead-G. G. or G.O. Dual

CO<sub>2</sub> - 3.08% N<sub>2</sub> - 1.73% Reservoir Temp. 130° F

OBSERVED DATA  
PI - 3.850 PI - 3.852 PI - 3.855

Tested Through (PI) (PI) (Meter) Type Taps Pipe

No.	Flow Data			Tubing Data		Casing Data		Duration of Flow Hr.
	(Line) Size	(Orifice) Size	Press. psig	Diff. h <sub>w</sub>	Temp. °F.	Press. psig	Temp. °F.	
SI								
1.	4"	1.25	466.8	5.8	61	940.8		72
2.	4"	1.25	471.2	12.6	60	887.0		23 3/4
3.	4"	1.25	473.2	20.9	61	834.9		23 3/4
4.	4"	1.25	457.8	41.0	61	750.5		24 1/4
5.								24

FLOW CALCULATIONS

No.	Coefficient (24-Hour)	$\sqrt{h_{wp}}$	Pressure psia	Flow Temp. Factor F <sub>t</sub>	Gravity Factor F <sub>g</sub>	Compress. Factor F <sub>pv</sub>	Rate of Flow Q-MCFPD @ 15.025 psia
1.	10.24	52.76	480.0	0.9990	0.9463	1.046	534
2.	10.24	78.12	484.4	1.0000	0.9463	1.047	793
3.	10.24	100.8	486.4	0.9990	0.9463	1.047	1022
4.	10.24	139.0	471.0	0.9990	0.9463	1.045	1406
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio Dry Gas cf/bbl.  
Gravity of Liquid Hydrocarbons --- deg.  
F<sub>c</sub> 0.911 (1-e<sup>-s</sup>) 0.141  
Specific Gravity Separator Gas .670  
Specific Gravity Flowing Fluid ---  
P<sub>c</sub> 1055.3

No.	$P_w$ $P_t$ (psia)	$P_t^2$	$F_{CQ}$	$(F_{CQ})^2$ (1-e <sup>-s</sup> )	$P_w^2$	$P_C^2 - P_w^2$	Cal. $P_w$	$\frac{P_w}{P_C}$	
1.	954.0	910.1	0.4865	0.2367	0.0334	910.1	145.2	954.0	.99
2.	900.2	810.4	0.7224	0.5219	0.0736	810.5	244.8	900.3	.88
3.	848.1	719.3	0.9310	0.8668	0.1222	719.4	335.9	848.2	.83
4.	763.7	583.2	1.281	1.6410	0.2314	583.4	471.9	763.8	.74
5.									

Absolute Potential: 3000 2600 MCFPD; n .87

COMPANY General Crude Oil Company

ADDRESS Route 2, Hamlin, Texas

AGENT and TITLE J. F. Hulsey, Superintendent

WITNESSES Test conducted by R. L. West

COMPANY Permian Basin Pipe Line Company

REMARKS

This is a retest and as such we are submitting this test to the Commission. Point alignment is not exact but there is good point spread and drawdown.

ELVIS A. U.  
GAS ENGINEER

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.

$F_{pv}$  = Supercompressability 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  $P_t$ .

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