

W. A. JIZ
ENGINEER

HOODS & CO. HOODS

Form 10-122
Revised 12-1-55

Pool Rumont Seven-Rivers, Queen PN 2:19 Lea

Initial X (retest) Date of test 8/25 thru 9/3/56

Company The Ohio Oil Company State Elliott Well No. 4

Unit P Sec. 30 Perm. 19-S 37-E Permian Basin Pipeline Company

Casing 5" 15# 4.408 3929' * To

Tubing 2.375 4.7# 1.995 3119' Perf. 3117' To 3119'

Gas Flow: From 3110' 3563' 3117 0.670 2088 Bar.Press. 13.2

Produced: X Single

Date of completion 9/2/54 3082' or G.O. Dual

OBSERVED DATA

Tested Through (RESUME) (RESUME) Pipe

No.	Flow Data		Tubing Data		Casing Data		Duration of Flow Hr.	
	(Line) Size	(Griffine) Size	Temp. °F.	Press. psig	Temp. °F.	Press. psig		
SI				921.0	--	Perf.	71-1/4 hr. 8.1	
1.	4"	1.25"	451.7	11.5	73	756.2	--	23-3/4 hr.
2.	4"	1.25"	449.7	15.0	67	704.5	--	24-1/4 hr.
3.	4"	1.25"	453.2	23.0	71	612.5	--	23-3/4 hr.
4.	4"	1.25"	475.0	33.1	74	526.0	--	24-1/4 hr.
5.								

FLOW CALCULATION

No.	Coefficient (24-Hour)	Flow	Rate of Flow Q-MCFPD @ 15.025 psia	Flow Temp.	Gravity	Compress.	Rate of Flow
				Factor	Factor	Factor	
1.	10.24	73.12	464.9	0.9877	0.9463	1.048	733
2.	10.24	83.33	462.9	0.9933	0.9463	1.049	841
3.	10.24	103.57	466.4	0.9896	0.9463	1.048	1041
4.	10.24	127.12	488.2	0.9868	0.9463	1.050	1276
5.							

MEASURE DATA RATIOS

Gas Liquid Hydrocarbon Ratio Dry Gas 1.134 deg. Specific Gravity Separator Gas --

Gravity of Liquid Hydrocarbon 9.936 0.134 deg. Specific Gravity Flowing Fluid --

934.2 p_c 872.7

No.	P _w P _t (psia)	P _t ²	P _t	(P _t Q) ² (1-1000)	P _t ²	P _t ² /P _w	Cal. P _w	P _w /P _c
1.	769.4	592.0	7.283	53.04	7.11	599.1	774.0	82.9
2.	717.7	515.1	8.356	69.82	9.36	524.5	724.2	77.5
3.	625.7	391.5	10.343	106.98	14.34	405.8	637.0	68.2
4.	539.2	290.7	12.678	160.73	21.54	312.2	558.8	59.8
5.								

Absolute Potential: 1871 MCFPD .864337

COMPANY The Ohio Oil Company

ADDRESS Box 2107, Hobbs, New Mexico

AGENT AND TITLE Thomas O. Webb - Petroleum Engineer

APPROVED Mr. R. L. West

COMPANY Permian Basin Pipeline Co.

* 5" O.D. cas. perfs. as follows: 3110-27, 3148-60, 3173-83, 3218-3300, 3325-50, 3360-88, & 3417-3563.

Well was blown on 8/25/56. Improper point alignment obtained on this test, but due to being a retest an avg. curve is drawn through the four data points.

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 .