

NEW MEXICO OIL CONSERVATION COMMISSION

Nov 12 3 31 PM '65

Form C-122

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised 12-1-55

Pool Eumont Formation Penrose County Lea
Initial X Annual _____ Special _____ Date of Test November 8, 1965
Company TEXACO Inc. Lease C. H. Weir "A" Well No. 7 UZ
Unit L Sec. 12 Twp. 20 Rge. 37 Purchaser Phillips Petroleum Company
Casing 7-5/8 Wt. 26.4 I.D. 6.969 Set at 6474 Perf. 3612 To 3684
Tubing 2-3/8 Wt. 4.70 I.D. 1.995 Set at 5250 Perf. _____ To _____
Gas Pay: From 3612 To 3684 L 3612 xG .700 -GL 2528 Bar.Press. 13.2
Producing Thru: Casing X Tubing _____ Type Well Gas - Oil - Oil
Date of Completion: 10-5-61 Baker "FA" 5250 Single-Bradenhead-G. G. or G.O. Dual
Packer "FW" 5351 Reservoir Temp. _____

OBSERVED DATA

Tested Through (~~Prover~~) (~~Choke~~) (Meter)Type Taps Flange

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Prover) (Line) Size	(Choke) (Orifice) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
1.	4.026	1.500	305	2.0	66			466	65	72
2.	"	"	266	6.5	62			448	70	1
3.	"	"	268	15.5	61			428	70	1
4.	"	"	300	34.0	64			407	70	1
5.								361	71	1

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.	13.99	25.23	318.2	.9943	.9258	1.036	336.6
2.	13.99	42.60	279.2	.9981	"	1.032	567.8
3.	13.99	66.02	281.2	.9990	"	1.032	881.4
4.	13.99	103.2	313.2	.9962	"	1.032	1380.8
5.						1.037	

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio Dry cf/bbl.
Gravity of Liquid Hydrocarbons _____ deg.
P_c .734 (1-e^{-s}) 0.160

Specific Gravity Separator Gas .700
Specific Gravity Flowing Fluid .700
P_c 479.2 P_c² 229.6

No.	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.	461.2	212.7	Friction			212.7	16.0		.962
2.	441.2	194.7	Negligible			194.7	34.9		.921
3.	420.2	176.6				176.6	53.0		.877
4.	374.2	140.0				140.0	89.6		.781
5.									

Absolute Potential: 3000 MCFPD; n .840

COMPANY TEXACO Inc.
ADDRESS P. O. Box 1270, Midland, Texas
AGENT and TITLE F. W. Moore F. W. Moore, District Supervisor (Gas)
WITNESSED _____
COMPANY _____

REMARKS

22 MAR 1968 11 00 AM

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 .