

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised 12-1-55

Pool Gallegos Formation Dakota County San Juan
Initial X Annual _____ Special _____ Date of Test 11-19-59
Company Permian Oil Company Lease Federal Well No. 1
Unit 6 Sec. 19 Twp. 27N Rge. 11W Purchaser _____
Casing 5 1/2 Wt. 15.5 I.D. 4.990 Set at 6593RKB Perf. 6382 To 6417
Tubing 2-3/8 Wt. 4.70 I.D. 1.995 Set at 6423 Perf. 6400 To 6423
Gas Pay: From 6382 To 6417 L 6400 xG .67 -GL 4288 Bar.Press. 12.0
Producing Thru: Casing _____ Tubing X Type Well single-gas
Single-Bradenhead-G. G. or G.O. Dual
Date of Completion: 11-18-59 Packer _____ Reservoir Temp. _____

OBSERVED DATA

Tested Through (Prover) (Choke) (Water) Type Taps _____

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.	
SI										
1.		3/4	396		88°	2050	396	2050	990	7 day
2.										3 hours
3.										
4.										
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.	12.3650		400	.9813	.9463	1.040	4.872
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

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

Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
P_c 2062 P_c 4251.8

P_w 1002 P_w 1004.0

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.									
2.						1004.0	3267.8		.492
3.									
4.									
5.									

Absolute Potential: 5.505 MCFPD; n .75

COMPANY PERMIAN OIL COMPANY

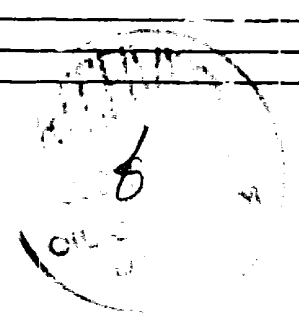
ADDRESS 1223 Petroleum Life Building - Midland, Texas

AGENT and TITLE John P. ...

WITNESSED ...

COMPANY ...

REMARKS



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 .