

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Angel Peaks Formation Dakota County San Juan
Initial X Annual _____ Special _____ Date of Test 3-11-60
Company Pubco Petroleum Corp. Lease McLeod Well No. 2
Unit L Sec. 34 Twp. 28N Rge. 10W Purchaser El Paso Natural Gas Co.
Casing 5 1/2 Wt. 15 1/2 I.D. _____ Set at 6668 Perf. 6394 To 6530
Tubing 2" Wt. 4.7 I.D. _____ Set at _____ Perf. _____ To _____
Gas Pay: From 6394 To 6530 L 6554 xG _____ -GL _____ Bar.Press. _____
Producing Thru: Casing _____ Tubing X Type Well Single
Single-Bradenhead-G. G. or G.O. Dual
Date of Completion: 2-29-60 Packer _____ Reservoir Temp. 138

OBSERVED DATA

Tested Through (Packer) (Choke) (Packer) Type Taps Pipe

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	2"	3/4				1906		1916		7-day
1.		3/4	535			535	90°	1120		3-hour blow
2.										
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.	12.365		547	.9723	.9608	1.050	6634
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

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

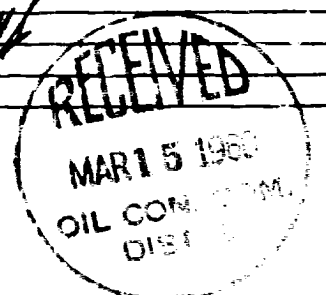
Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
P_c 1928 P_c 3,717.184

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.						1,281,424			
2.									
3.									
4.									
5.									

Absolute Potential: 9,107 MCFPD; n .75

COMPANY PUBCO PETROLEUM CORPORATION
ADDRESS 108 West Chuata, Aztec, New Mexico
AGENT and TITLE H. E. Maxwell, Jr., Mgr. Prod. Dept.
WITNESSED Jack Dunning and B. H. Waychoff, Jr.
COMPANY Pubco Petroleum Corporation

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 .