

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Undesignated Formation Dakota County San Juan
Initial X Annual 25 Special Date of Test October 17, 1960
Company Compass Exploration, Inc. Lease Federal Well No. 1-26
Unit M Sec. 26 Twp. 30 N Rge. 13 W Purchaser Southern Union Gas Company
Casing 4 1/2 Wt. 11.6 I.D. 4.000 Set at 6570 Perf. 6392 To 6448
Tubing 2-3/8 Wt. 4.7 I.D. 1.995 Set at 6328 Perf. 6328 To Pin Collar
Gas Pay: From 6310 To 6448 L 6328 xG .65 -GL 4113 Bar.Press. 12
Producing Thru: Casing Tubing Tubing Type Well Single
Date of Completion: October 2, 1960 Cocker None Single-Bradenhead-G. G. or G. O. Dual 156
Reservoir Temp.

OBSERVED DATA

Tested Through (REMOVE) (Choke) (REMOVE)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.	
1.	2"	3/4"			64°	2105		2112		SI
2.	2"	3/4"				382		910		3 hrs
3.										
4.										
5.										

FLOW CALCULATIONS

No.	Coefficient (24-Hour)	$\sqrt{h_{wpf}}$	Pressure psia	Flow Temp. Factor F _t	Gravity Factor F _g	Compress. Factor F _{pv}	Rate of Flow Q-MCFPD @ 15.025 psia
1.							
2.	12.365		394	.9962	.9608	1.016	4737.7
3.							
4.							
5.							

PRESSURE CALCULATIONS

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

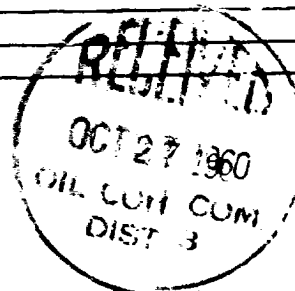
Specific Gravity Separator Gas
Specific Gravity Flowing Fluid
P_c 2124 P_c 4511.4

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.						849.9	3661.5		.433
3.									
4.									
5.									

Absolute Potential: 5533.6 MCFPD; n 0.75

COMPANY Compass Exploration, Inc.
ADDRESS 1645 Court Place, Denver 2, Colorado
AGENT and TITLE Albert S. Johnson, Petroleum Engineer
WITNESSED P. J. Farrelly
COMPANY Compass Exploration, Inc.

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} = 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 .

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