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NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Basin - Dakota Formation Dakota County Rio Arriba
Initial X Annual _____ Special _____ Date of Test 11/30/62
Company Compass Exploration, Inc. Lease Northwest Lindrith Well No. 2-4
Unit F Sec. 4 Twp. 26N Rge. 7W Purchaser _____
Casing 5-1/2 Wt. 17.0 I.D. _____ Set at 7479 Perf. 7160 To 7322
Tubing 1-1/2 Wt. 2.75 I.D. _____ Set at 7020 Perf. Open Ended To _____
Gas Pay: From 7160 To 7322 L _____ xG .65 -GL 4563 Bar.Press. _____
Producing Thru: Casing _____ Tubing X Type Well Dual - Gas
Single-Bradenhead-G. G. or G.O. Dual
Date of Completion: 11/19/62 Packer 7010 Reservoir Temp. _____

OBSERVED DATA

Tested Through (Prover) (Choke) (Meter) 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								2485		
1.										
2.	2"	3/4"	292		71					3 hours
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.							
3.	12.365		304	.9896	.9608	1.029	3678
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
Gravity of Liquid Hydrocarbons _____ deg.
F_c 16.46 (1-e^{-s}) .282

Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
P_c 2497 P_c 6,235,009

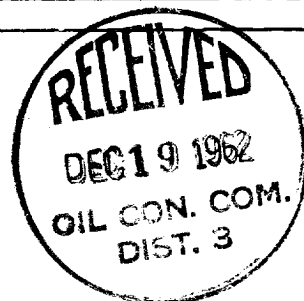
No.	$\frac{P_w}{P_t}$ (psia)	P _t ²	F _c Q	(F _c Q) ²	$\frac{(F_c Q)^2}{(1-e^{-s})}$	P _w ²	P _c ² -P _w ²	Cal. P _w	$\frac{P_w}{P_c}$
1.									
2.									
3.	304	92.416	60.540	3665.073	1033.551	1125.967	5,102,042		1.2204
4.									
5.									

Absolute Potential: 4271 MCFPD; n .75 1.1611COMPANY COMPASS EXPLORATION, INC.ADDRESS P. O. Box 1138, Farmington, New Mex.AGENT and TITLE E. C. Ellis, Production Supt.

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 .