

3 NMOCC
 4 Compass
 1 El Paso Natural Gas NEW MEXICO OIL CONSERVATION COMMISSION
 1 File

Form C-122
 Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Basin Dakota Formation Dakota County San Juan
 Initial X Annual _____ Special _____ Date of Test 1-12-62
 Company Compass Exploration, Inc. Lease Twin Mounds Well No. 1-25
 Unit 0 Sec. 25 Twp. 30N Rge. 14W Purchaser _____
 Casing 15.5# Wt. 5 1/2" O.D. _____ Set at 6028 Perf. 5696 To 5716
 Tubing 4.7# Wt. 2 3/8" I.D. _____ Set at 5857 Perf. 5817 To 5844
 Gas Pay: From _____ To _____ L. _____ xG .650 -GL _____ Bar.Press. _____
 Producing Thru: Casing _____ Tubing X Type Well Single - Gas
 Single-Bradenhead-G. G. or G.O. Dual
 Date of Completion: 12-30-61 Packer _____ Reservoir Temp. _____

OBSERVED DATA

Tested Through (~~FRYK~~) (Choke) (~~FRYK~~) 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
1.						1750		1839	
2.		3/4"	613					1369	70
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.							
2.	12.365		625	.9905	.9608	1.064	7825
3.							
4.							
5.							

PRESSURE CALCULATIONS

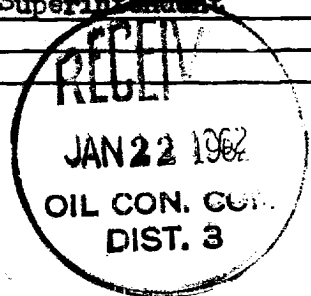
Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
 Gravity of Liquid Hydrocarbons _____ deg.
 F_c _____ (1-e^{-s})
 Specific Gravity Separator Gas _____
 Specific Gravity Flowing Fluid _____
 P_c 1851 P_c² 3,426,201

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 /F _c
1.									
2.									
3.	1381					1,907,161	1,519,040		2,2555
4.									
5.									

Absolute Potential: 14,401 MCFPD; n .75 1.8404

COMPANY Compass Exploration, Inc.
 ADDRESS P. O. Box 1138, Farmington, New Mexico
 AGENT and TITLE E. C. Ellis, Production Superintendent
 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 .