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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 San Juan
 Initial X Annual _____ Special _____ Date of Test 4-26-62
 Company Compass Exploration, Inc. Lease Humble North Kirtland Well No. 1-13
 Unit H Sec. 13 Twp. 30N Rge. 14W Purchaser _____
 Casing 4-1/2 Wt. 10.5 I.D. _____ Set at 6481 Perf. 6236 To 6372
 Tubing 2-3/8 Wt. 4.7 I.D. _____ Set at 6386 Perf. Open End To _____
 Gas Pay: From 6236 To 6372 L _____ xG .65 -GL _____ Bar.Press. _____
 Producing Thru: Casing _____ Tubing X Type Well Single - Gas
 Single-Bradenhead-G. G. or G.O. Dual _____
 Date of Completion: 4-15-62 Packer _____ Reservoir Temp. _____

OBSERVED DATA

Tested Through ~~10000000~~ (Choke) ~~10000000~~ Type Taps _____

No.	Flow Data				Tubing Data		Casing Data		Duration of Flow Hr.
	(Prover) (Line) Size	(Choke) 10000000 Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	
SI						1994		2037	
1.									
2.									
3.		3/4"				280	86	858	3 Hrs.
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.							
3.	12.365		292	.9759	.9608	1.025	3470
4.							
5.							

PRESSURE CALCULATIONS

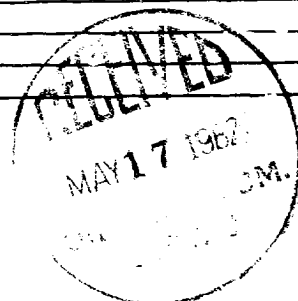
Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
 Specific Gravity Separator Gas _____
 Gravity of Liquid Hydrocarbons _____ deg.
 Specific Gravity Flowing Fluid _____
 P_c _____ (1-e^{-s}) P_c 2049 P_c 4198.401

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.									
3.	870					756.900	3441.501		1.2199
4.									
5.									

Absolute Potential: 4028 MCFPD; n = .75 1.1607

COMPANY COMPASS EXPLORATION, INC.
 ADDRESS P. O. Box 1138, Farmington, New Mex.
 AGENT and TITLE E. C. Ellis - Production Sup't.
 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} = 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 .