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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 6235 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 [redacted] (Choke) [redacted] Type Taps _____

No.	Flow Data (Prover) (Line) Size	Flow Data (Choke) [redacted] Size	Flow Data Press. psig	Flow Data Diff. h_w	Flow Data Temp. °F.	Tubing Data Press. psig	Tubing Data Temp. °F.	Casing Data Press. psig	Casing Data Temp. °F.	Duration of Flow Hr.
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.
Gravity of Liquid Hydrocarbons _____ deg.
F_c _____ $(1-e^{-s})$ _____

Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
P_c 2049 P_c^2 4198.401

No.	P_w P_t (psia)	P_t^2	F_cQ	$(F_cQ)^2$	$\frac{(F_cQ)^2}{(1-e^{-s})}$	P_w^2	$P_c^2-P_w^2$	Cal. P_w	$\frac{P_w}{P_c}$
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

RECEIVED
MAY 17 1962
O. C. M.

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.