

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Wildcat Formation Dakota County San Juan
Initial X Annual _____ Special _____ Date of Test April 9, 1960
Company Compass Exploration, Inc. Lease Anteo Well No. 1-35
Unit D Sec. 35 Twp. 30N Rge. 14W Purchaser Southern Union Gas Company
Casing 4 1/2 Wt. 9.5 I.D. 4.000 Set at 6095 Perf. 5796 To 5925
Tubing 2 3/8 Wt. 4.3 I.D. 1.995 Set at 5914 Perf. 5914 To Pin Col
Gas Pay: From 5796 To 5925 L 5914 xG 0.65 -GL 3844 Bar.Press. 12.0
Producing Thru: Casing _____ Tubing X Type Well Single
Single-Bradenhead-G. G. or G.O. Dual
Date of Completion: April 1, 1960 Packer _____ Reservoir Temp. 141°F

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						1950		1983		SI
1.										
2.										
3.	2	3/4	534		81			828		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	-	546	0.9804	0.9608	1.055	6709
4.							
5.							

PRESSURE CALCULATIONS

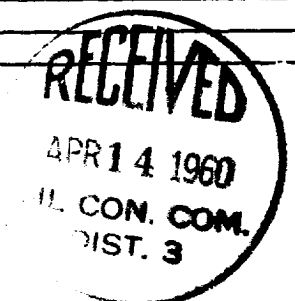
Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
Gravity of Liquid Hydrocarbons _____ deg.
P_c 9.402 (1-e^{-s}) 0.232
Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
P_c 1995 P_c 3980.0

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.	546	298.1	63.078	3978.83	923.088	705.600	3,274.4	-	1.215
4.									
5.									

Absolute Potential: 7.764 MCFPD; n 0.75/1.1572

COMPANY Compass Exploration, Inc.
ADDRESS 1645 Court Place, Denver, Colorado
AGENT and TITLE Morris B. Jones, Consulting Engineer M. B. JONES
WITNESSED Charles E. Werner
COMPANY with Morris B. Jones

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 .

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OIL CONSERVATION COMMISSION			
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