

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Undesignated Formation Dakota County San Juan
X Annual _____ Special _____ Date of Test 11/5/60
by Compass Exploration, Inc. Lease Federal Well No. 2-26
A Sec 26 Twp. 30 N Rge. 13 W Purchaser Southern Union Gas Company
g 4-1/2 Wt. 9.5 I.D. 4.090 Set at 6600 Perf. 6356 6472 To 6380
g 2-3/8 Wt. 4.7 I.D. 1.995 Set at 6360 Perf. Pin Collar To 6488
Pay: From 6356 To 6488 L _____ xG _____ -GL _____ Bar. Press. 12.0
Including Thru: Casing _____ Tubing X Type Well Gas -Single
Date of Completion: 10/25/60 Packer None Single-Bradenhead-G. G. or G.O. Dual
Reservoir Temp. 144°

OBSERVED DATA

Tested Through Prover (Choke) None

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						2005		1999		
1.										
2.	2"	3/4"	324	70°		324	70°	881		3 Hr
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		336	0.9905	.9608	1.016	4017.1
3.							
4.							
5.							

PRESSURE CALCULATIONS

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

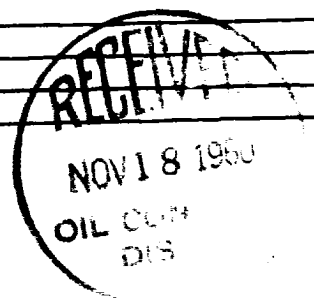
Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid .650
P_c 2017 P_c 4068.3

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.						797.4	3219.7		.442
3.									
4.									
5.									

Absolute Potential: 4776.3 MCFPD; n 0.75/1.189

COMPANY COMPASS EXPLORATION, INC.
ADDRESS 1645 Court Place
AGENT and TITLE Albert S. Johnson, Petroleum Engineer
WITNESSED P. J. Farrelly
COMPANY Compass Exploration, Inc.

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 .

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OIL CONSERVATION COMMISSION	
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