

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised 12-1-55

Pool Undesignated Dakota Formation Dakota County San JuanInitial I Annual _____ Special _____ Date of Test 9-23-60Company Delhi-Taylor Oil Corporation Lease Delhi-Florence Well No. B-2Unit 3W/4 Sec. 30 Twp. 28-N Rge. 8-W Purchaser _____Casing 5-1/2" Wt. 176 I.D. 4.893 Set at 6780 Perf. 6714-6596 To 6594-35Tubing 2-3/8" Wt. 4.70 I.D. 1.395 Set at 6808 Perf. Open ended To 6836-35Gas Pay: From 6526 To 6714 L _____ xG 0.697 -GL _____ Bar.Press. 12Producing Thru: Casing _____ Tubing 2 Type Well Single GasDate of Completion: 9-11-60 Packer None Reservoir Temp. _____

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										
1.		<u>3/4"</u>	<u>373</u>		<u>81°</u>	<u>2878</u>	<u>81°</u>	<u>2383</u>		<u>7 Days</u>
2.								<u>1210</u>		<u>3 HOURS</u>
3.										
4.										
5.										

FLOW CALCULATIONS

No.	Coefficient (24-Hour)	$\sqrt{h_{wpf}}$	Pressure psia	Flow Temp. Factor F _t	Gravity Factor F _g	Compress. Factor F _{pv}	Rate of Flow Q-MCFPD @ 15.025 psia
1.	<u>13.363</u>		<u>387</u>	<u>0.9804</u>	<u>0.9282</u>	<u>1.039</u>	<u>4329</u>
2.							
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 2380 P_c² 5712100

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.									
4.									
5.									

Absolute Potential: 5485 MCFPD; n 0.75COMPANY Delhi-Taylor Oil CorporationADDRESS P. O. Box 1100, Farmington, New MexicoAGENT and TITLE J. F. Berry - Dist. EngineerWITNESSED Doc NiccoliCOMPANY El Paso Natural Gas Co.

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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