

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Undesignated Dakota Formation Dakota County San JuanInitial X Annual _____ Special _____ Date of Test 9-23-60Company Delhi-Taylor Oil Corporation Lease Delhi-Lackey Well No. 1Unit SW/4 Sec. 21 Twp. 28-N Rge. 9-W Purchaser _____Casing 5-1/2" Wt. 17# I.D. 4.892 Set at 7215 Perf. 7158-32 To 7012-6998
7124-02 To 6994-6978Tubing 2-3/8" Wt. 4.7# I.D. 1.995 Set at 7081 Perf. Open ended To _____Gas Pay: From 6978 To 7158 L _____ xG 0.704 -GL _____ Bar.Press. 12Producing Thru: Casing _____ Tubing X Type Well Single gas

Single-Bradenhead-G. G. or G.O. Dual

Date of Completion: 9-8-60 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. $^{\circ}\text{F}$.	Press. psig	Temp. $^{\circ}\text{F}$.	Press. psig	Temp. $^{\circ}\text{F}$.	
SI						1926		1988		7 Days
1.		3/4"	264		79°	264	79°	939		3 Hours
2.										
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.	12.365		276	0.9822	0.9292	1.028	3202
2.							
3.							
4.							
5.							

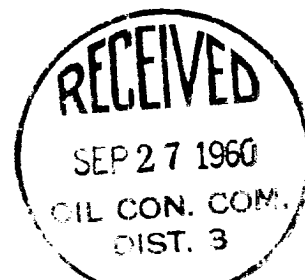
PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
Gravity of Liquid Hydrocarbons _____ deg.
 P_c _____ $(1-e^{-s})$ Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
 P_c 1938 P_c 3,755,844

No.	P_w P_t (psia)	P_c^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	$\frac{P_w}{P_c}$
1.									
2.									
3.									
4.									
5.									

Absolute Potential: 3925 MCFPD; n 0.75COMPANY Delhi-Taylor Oil CorporationADDRESS P. O. Drawer 1198, Farmington, New MexicoAGENT and TITLE J. F. Berry - Dist. Engineer *J. F. Berry - Dist. Eng.*WITNESSED Bob NickellCOMPANY El Paso Natural Gas 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} = 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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