

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Undesignated Leach Formation Alamo County Doña Ana
Initial I Annual _____ Special _____ Date of Test 9-12-50
Company Delhi-Taylor Oil Corporation Lease McCall Well No. _____
Unit 3/4 Sec. 34 Twp. 22-N Rge. 5-W Purchaser _____
Casing 3-1 1/2 Wt. 50 I.D. _____ Set at 555 Perf. 2240 To 2247
Tubing 2-3/8 Wt. 4.71 I.D. 1.995 Set at 557 Perf. Open ended To _____
Gas Pay: From 2750 To 5947 L _____ xG 0.461 -GL _____ Bar.Press. 13
Producing Thru: Casing _____ Tubing 1 Type Well Single gas
Date of Completion: 9-21-50 Packer None Single-Bradenhead-G. G. or G.O. Dual
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						1802		2102		7 Days
1.		3/4"	113		78*	113	78*	573		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.	11.355		125	0.9631	0.9935	1.011	1465
2.							
3.							
4.							
5.							

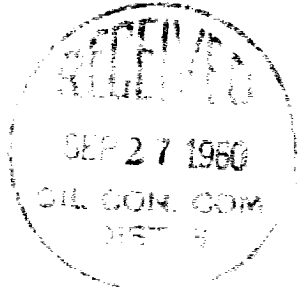
PRESSURE CALCULATIONS

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 1800 P_c² 324000

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: 1981 MCFPD; n 0.75
COMPANY Delhi-Taylor Oil Corporation
ADDRESS P. O. Drawer 1193, Farmington, New Mexico
AGENT and TITLE J. F. Berry - Dist. Engineer
WITNESSED Bob McCall
COMPANY 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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