

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Basin Dakota Formation Dakota County San Juan
Initial XX Annual _____ Special _____ Date of Test 1/21/63
Company Delhi-Taylor Oil Corp. Lease Pritchard Well No. 3
Unit _____ Sec. 31 Twp. 29N Rge. 8W Purchaser No pipeline connection
Casing 2 1/2" Wt. 6.50 I.D. 2.441 Set at 6377-7012 Perf. 6791 To 6883
Tubing 2-3/8" Wt. 4.70 I.D. 1.995 Set at 6337 Perf. _____ To _____
Gas Pay: From 6791 To 6883 L 414 (2-7/8) GL _____ Bar.Press. _____
Producing Thru: Casing _____ Tubing XX Type Well G. G. Dual
Date of Completion: 6/29/62 Packer Baker Model "D" Reservoir Temp. _____

OBSERVED DATA

Tested Through ~~(Borehole)~~ (Choke) ~~(Meter)~~ Type Taps None

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.		0.75	77	---	61	1969	---	859	---	3 hrs.
2.										
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.	12.365	---	89	0.9990	0.9258	---	1018
2.					(assumed)		
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
Gravity of Liquid Hydrocarbons _____ deg.
F_c 9.402 (1-e^{-S}) 0.276
Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
P_c 1981 P_c² 3,924,361

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.	89	7921	9.571	91.609	25.284	33,124	3,891,237	182	0.092
2.									
3.									
4.									
5.									

Absolute Potential: 1024 MCFPD; n 0.75

COMPANY Delhi-Taylor Oil Corporation

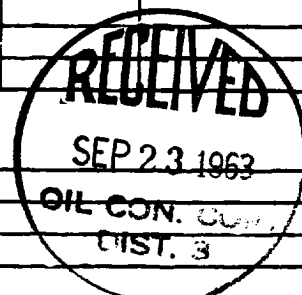
ADDRESS P. O. Drawer 1198, Farmington, New Mexico

AGENT and TITLE Ed Spinks, Production Engineer

WITNESSED Wayne Smith

COMPANY New Mexico Oil Conservation Commission

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 .