

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool CHERRY BLANKET DEPT. C Formation DAKOTA County RIO ARIBA
Initial _____ Annual _____ Special _____ Date of Test 7-25-60
Company BERT FIELDS Lease FIDELITY UNION Well No. 1
Unit H Sec. 4 Twp. 7N Rge. 7W Purchaser _____
Casing 5 1/2 Wt. 15.5 I.D. _____ Set at 7660 Perf. 7350 To 7630
Tubing 2-3/8 Wt. _____ I.D. _____ Set at 7559 Perf. 7350 To 7630
Gas Pay: From _____ To _____ L _____ xG _____ -GL _____ Bar.Press. 1000
Producing Thru: Casing _____ Tubing _____ Type Well Single-Bradenhead-G. G. or G.O. Dual
Date of Completion: _____ Packer _____ Reservoir Temp. 140°F 7400

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.	
SI								
1.								
2.		<u>3/4</u>	<u>386</u>		<u>70</u>	<u>386</u>	<u>60</u>	<u>3 hrs.</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.							
2.	<u>12.365</u>		<u>390</u>	<u>0.9813</u>	<u>0.9375</u>	<u>1.043</u>	<u>4718</u>
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
Gravity of Liquid Hydrocarbons _____ deg.
T_c _____ (1-e^{-s})
Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
P_c 554 P_c² 306,816

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.	<u>100</u>					<u>1,006,000</u>	<u>3,16,297</u>		<u>0.313</u>
3.									
4.									
5.									

Absolute Potential: _____ MCFPD; n _____
COMPANY Bert Fields
ADDRESS 1211 Fidelity Union Life Bldg., Dallas, Texas
AGENT and TITLE Mark D. Jackman, Superintendent
WITNESSED _____
COMPANY _____

REMARKS

Test run by Dennis Owens Company



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		
AZTEC DISTRICT OFFICE		
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