MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool __Wildcat__ Formation __Seven Rivers__ County __Lea__

Initial __X__ Annual_____ Special_____ Date of Test __5-28-56__

Company __G. W. TRAINER__ Lease __JORDAN__ Well No. __1__

Unit __H__ Sec. __11__ Twp __20S__ Rge. __35E__ Purchaser __None at Present__

Casing __5½__ Wt. __15.5__ I.D._____ Set at __4234__ Perf. __4104__ To __4127__

Tubing __2__ Wt. __4.7__ I.D. __1.995__ Set at __4040__ Perf._____ To_____

Gas Pay: From __4104__ To __4128__ L __4040__ xG __.650 Assumed__ -GL __2626__ Bar.Press._____

Producing Thru: Casing_____ Tubing __X__ Type Well __Single__

Date of Completion: __5-23-56__ Packer __4010__
Single-Bradenhead-G. G. or G.O. Dual
Reservoir Temp._____

OBSERVED DATA

Tested Through (Prover) (~~Choke~~) (Meter)   Type Taps_____

No.	Flow Data (Prover) (Line) Size	(Choke) (Orifice) Size	Press. psig	Diff. h_w	Temp. °F.	Tubing Data Press. psig	Temp. °F.	Casing Data Press. psig	Temp. °F.	Duration of Flow Hr.
SI						1333				72
1.	2 x .187		1304		77	1296				3
2.	2 x .375		931		78	933				3
3.	2 x .500		710		69	725				3
4.	2 x .625		510		59	546				3
5.	2 x .625		489		59	529				24

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.	.7251		1317.2	.9822	.9608	1.131	1.104
2.	3.0691		944.2	.9831	.9608	1.095	2.997
3.	5.5233		723.2	.9915	.9608	1.073	4.603
4.	8.3555		523.2	1.0010	.9608	1.057	4.444
5.	8.3555		502.2	1.0010	.9608	1.053	4.249

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio_____ cf/bbl.   Specific Gravity Separator Gas_____
Gravity of Liquid Hydrocarbons_____ deg.   Specific Gravity Flowing Fluid_____
F_c __9.936__ $(1-e^{-s})$ __0.165__ P_c __1346.2__ P_c^2 __1812.3__

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	$\dfrac{P_w}{P_c}$
1.	1309.2	1714.0	11.0	121.00	19.97	1734.0	78.3		
2.	946.2	893.3	29.9	866.01	144.33	1041.9	770.4		
3.	738.2	544.9	49.5	1410.25	270.64	815.5	996.8		
4.	539.2	312.7	44.2	1953.64	322.35	635.1	1177.2		
5.	512.2	294.0	42.2	1780.84	293.84	567.8	1244.5		

Absolute Potential: __5200__ MCFPD; n __.521__
COMPANY __G. W. TRAINER__
ADDRESS __Box 2222, Hobbs, New Mexico__
AGENT and TITLE_____
WITNESSED __Bob Dean__
COMPANY __El Paso Natural Gas Co.__   Test Conducted by: Jack T. Littlefield

REMARKS

G. W. Trainer is operator of this well but El Paso Natural Gas Company
personnel conducted this test.

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.