NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122
Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool __Blinebry (Gas)__ Formation __Blinebry__ County __Lea__

Initial __X__ Annual _____ Special _____ Date of Test __12-14-57__

Company __N. B. Hunt__ Lease __Weatherly__ Well No. __1-E__

Unit __C__ Sec. __21__ Twp. __21-S__ Rge. __37-E__ Purchaser __None__

Casing 5 1/2 Wt. __15.5__ I.D. __4.976__ Set at __6190__ Perf. __5568__ To __5608__
O. D. 2.375

Tubing __2__ Wt. __4.7__ I.D. __1.995__ Set at __5790__ Perf. __Tubb Pay__ To _____

Gas Pay: From __5568__ To __5608__ L __5588__ xG __.854__ -GL __4772__ Bar.Press. __13.2__

Producing Thru: Casing __X__ Tubing _____ Type Well __G. G. Dual__
Single-Bradenhead-G. G. or G.O. Dual
Date of Completion: _____ Packer __5790__ Reservoir Temp. __100__

OBSERVED DATA

Tested Through (XXXXXXXXXXXXXXXXXXXXX) (Tester)   Type Taps _____

| No. | Flow Data | | | | | Tubing Data | | Casing Data | | Duration |
	(Line) Size	(Orifice) Size	Press. psig	Diff. h_w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	of Flow Hr.
SI								1780		
1.	3.000	2.000	5.0		68			1310		3
2.	"	"	8.0		77			925		3
3.	"	"	11.0		81			363		3
4.	"	"	12.0		81			108		3
5.										

FLOW CALCULATIONS

No.	Coefficient (24-Hour)	$\sqrt{h_w p_f}$	Pressure Inches Mercury	Flow Temp. Factor F_t	Gravity Factor F_g	Compress. Factor F_{pv}	Rate of Flow Q-MCFPD @ 15.025 psia
1.	1299		10	.9924	.8381	1.000	1080
2.	1692		16	.9840	"	"	1395
3.	2040		22	.9804	"	"	1676
4.	2149		24	.9804	"	"	1766
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.   Specific Gravity Separator Gas __.854__
Gravity of Liquid Hydrocarbons __None Prod.__ deg.   Specific Gravity Flowing Fluid _____
T_c __1.758__ $(1-e^{-S})$ __.280__ P_c __1793.2__ P_c^2 __3215.6__

No.	P_w P_t (psia)	P_t^2	$F_c Q$	$(F_c Q)^2$	$(F_c Q)^2$ $(1-e^{-S})$	F_w^2	$P_c^2 - P_w^2$	Cal. P_w	$\frac{P_w}{P_c}$
1.	1323.2	1750.9	1.899	3.606	1.010	1751.9	1463.7	1323.6	73.8
2.	938.2	880.2	2.452	6.012	1.683	881.9	2333.7	939.1	52.3
3.	376.2	141.5	2.946	8.679	2.430	143.9	3071.7	379.3	21.1
4.	121.2	14.7	3.105	9.641	2.699	17.4	3198.2	131.9	7.3
5.									

Absolute Potential: __1,775__ MCFPD; n __.61__
COMPANY __West Texas Engineering Service, Inc.__
ADDRESS __P. O. Box 2464 - Midland, Texas__
AGENT and TITLE __R. W. Harrington - Field Petroleum Engineer__
WITNESSED _____
COMPANY _____

REMARKS

Tested with a Portable Test Tank and Low Pressure Separator.
A 24 Hr. Rate was not obtained because the gas was being vented.
Proof of Stabilization: Rate #4 - End of 2 Hrs. Well Head Press. 108#
End of 2 1/2 Hrs " " " 108#
End of 3 Hrs. " " " 108#

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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