

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Undesignated Formation PICTURED CLIFFS County RIO ARriba
Initial X Annual _____ Special _____ Date of Test June 5, 1958
Company KAY KIMBELL Lease SALAZAR FEDERAL Well No. 1-22
Unit K Sec. 22 Twp. 25N Rge. 6W Purchaser El Paso Natural Gas Co.
Casing 5-1/2" Wt. 15.5# I.D. 4.976 Set at 3560 Perf. 2568 To 2576
Tubing 2-3/8" Wt. 4.7# I.D. 1.995 Set at 2593 Perf. None (Otis Side Door Choke)
Gas Pay: From 2568 To 2576 L 2568 xG 0.640 -GL 1644 Bar.Press. 12.0
Producing Thru: Casing X Tubing _____ Type Well G. G. Dual
Single-Bradenhead-G. G. or G.O. Dual
Date of Completion: 5-12-58 Packer Halliburton Reservoir Temp. 1040
Type "C"
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						896		847		
1.		0.750	94		63	897		94		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.	14.1605		106	0.9971	0.9692	1.010	1463
2.							
3.							
4.							
5.							

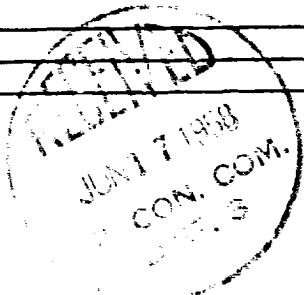
PRESSURE CALCULATIONS

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 859 P_c² 737,881

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.	106	11,236	2.49	6,200	689	11,925	725,956	109	
2.									
3.									
4.									
5.									

Absolute Potential: 1,483 MCFPD; n 0.85
COMPANY Kay Kimbell
ADDRESS 901 Lubbock National Bank Building, Lubbock, Texas
AGENT and TITLE Virgil L. Stoabs, Engineer
WITNESSED _____
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 .

OIL CONSERVATION COMMISSION		
SANTA FE DISTRICT OFFICE		
REPORT OF BACK PRESSURE TEST		
WELL NO. _____		
LOCATION _____		
DATE OF TEST _____		
TESTER _____		
SUPERVISOR _____		
APPROVED _____		
DATE _____		
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