

NEW MEXICO OIL CONSERVATION COMMISSION

Form O-122

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool AL 2 Formation ALBUQUERQUE County SAN JUAN
Initial XX Annual _____ Special _____ Date of Test 1/10/59
Company AMERICAN OIL COMPANY Lease 1000 Well No. 7
Unit _____ Sec. 31 Twp. 20N Rge. 9E Purchaser Southern Union Energy
Casing 1.6 Wt. 9.8 I.D. 1.000 Set at 2112 Perf. 2102 To 2112
Tubing 1 Wt. 1.7 I.D. 1.019 Set at 2102 Perf. 2107 To 2117
Gas Pay: From 2102 To 2102 L _____ xG _____ -GL _____ Bar. Press. _____
Producing Thru: Casing Y Tubing _____ Type Well Single - ss
Single-Bradenhead-G. G. or G.C. Dual _____
Date of Completion: 1/10/59 Packer _____ Reservoir Temp. _____
Total Length - 130'
Depth - 2112'
Obs - 2109'
Tested Through (Prover) (Choke) (Meter) Type Taps _____

OBSERVED DATA

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						230		230	60	7 days
1.		.750	206		71	228		206	68	3 hours
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 MCFPD
1.	12.340		210	.9724	.9700	1.020	2622
2.							
3.							
4.							
5.							

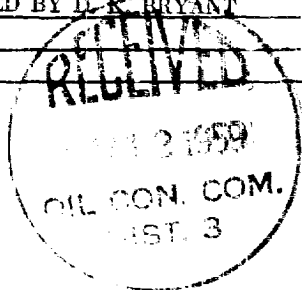
PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
Gravity of Liquid Hydrocarbons _____ deg.
P_c _____ (1-e^{-s})
Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
P_c 642 P_c 12.14

No.	P _w P _{xx} (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 _t
1.	210					57,600	14,564		
2.									
3.									
4.									
5.									

Absolute Potential: 2000 MCFPD; n .40
COMPANY AMERICAN OIL COMPANY
ADDRESS Box 75, Arroyo, New Mexico
AGENT and TITLE Reinhardt ORIGINAL SIGNED BY D. K. BRYANT
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		
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