

NEW MEXICO OIL CON. COM. FORM NO. 1

Form C-122

MULTI-POINT BACK PRODUCTION TEST FOR GAS WELLS

Revised 12-1-55

Pool Basin Dakota Formation Dakota County Rio Arriba
Initial Yes Annual No Special No Date of Test 9-26-64
Company Caulkins Oil Company Lease Bresch "C" Well No. D-144
Unit A Sec. 12 Twp. 26 N Rge. 6 W Purchaser Southern Union Gas Company
Casing 5 1/2" Wt. 17 & 15 I.D. 4.892 Set at 7748 To 7685
Tubing 2-3/8 Wt. 4.7 I.D. 1.995 Set at 7410 To 7410
Gas Pay: From 7456 To 7685 Bar.Press. 12
Producing Thru: Casing no Tubing yes Type Well Single gas
Date of Completion: 9-26-64 Packer none Reservoir Temp. 185

OBSERVED DATA

Tested Through (Prover) (Choke) (Meter)

Type Taps

Flow Data						Casing Data		Duration of Flow hr.
No.	(Prover) (Line) Size	(Choke) (Orifice) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	
SI								
1.		<u>3/4"</u>				<u>2378</u>	<u>2400</u>	<u>Shut In 186 hr</u>
2.						<u>365</u>	<u>66</u>	<u>1030</u>
3.								
4.								
5.								

FLOW DATA							
No.	Coefficient (24-Hour)	$\sqrt{h_w P_f}$	Pressure psia	Flow Rate MCFPD	Compress. Factor F _{pv}	Rate of Flow Q-MCFPD @ 15.025 psia	
1.	<u>14.1605</u>		<u>377</u>	<u>.9943</u>	<u>.9258</u>	<u>1.046</u>	<u>5141</u>
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
Gravity of Liquid Hydrocarbons _____ deg.
F_c _____ (1-e^{-S})

Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
P_c 2412 P_c 5,817,744

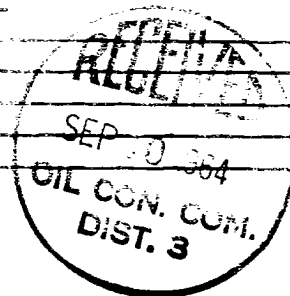
No.	P _w P _t (psia)	P _t ²	F _c Q	(F _c Q) ²	P _c ² - P _w ²	Cal. P _w	P _w P _c
1.							
2.					<u>1,085,764</u>	<u>4,731,980</u>	
3.							
4.							
5.							

Absolute Potential: 6004 MCFPD: (1.23)n 1.1679COMPANY Caulkins Oil CompanyADDRESS P.O. Box 780, Farmington, New MexicoAGENT and TITLE Frank Bray Superintendent

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 .