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NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122
Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Astec Formation Fruitland County San Juan
Initial I Annual _____ Special _____ Date of Test 11-23-57
Company Paul Case Lease Valdes Well No. 1
Unit I Sec. 24 Twp. 29N Rge. 11W Purchaser _____
Casing 5 1/2 Wt. 14.4 I.D. 5.012 Set at 1575 Perf. 1510 To 1542
Tubing 1 1/2 Wt. 2.34 I.D. 1.380 Set at 1509 Perf. 1504 To 1506
Gas Pay: From 1510 To 1542 L _____ xG .580 ~~entel~~ Bar.Press. 12.0
Producing Thru: Casing _____ Tubing X Type Well Single
Date of Completion: 11-16-57 Packer _____ Single-Bradenhead-G. G. or G.O. Dual
Reservoir Temp. _____

OBSERVED DATA

Tested Through (Prover) (Choke) (None) 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.	
1.						655		655		
2.						131	47°	428		3 hr
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 Q-MCFPD @ 15.025 psia
1.							
2.	12.3650		143	1.0127	1.0171	1.012	1843
3.							
4.							
5.							

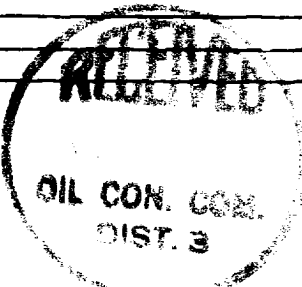
PRESSURE CALCULATIONS

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 667 P_c 444.9

No.	$\frac{P_w}{P_t}$ (psia)	P _t ²	F _c Q	(F _c Q) ²	$\frac{(F_cQ)^2}{(1-e^{-S})}$	P _w ²	P _c ² -P _w ²	Cal. $\frac{P_w}{P_c}$	$\frac{P_w}{P_c}$
1.									
2.									
3.	440					193.6	251.3		1.7704
4.									
5.									

Absolute Potential: 2995 MCFPD; n .85 1.625
COMPANY Val R. Reese & Assoc., Inc.
ADDRESS 120 S. Commercial, Farmington, N.M.
AGENT and TITLE T. A. Dugan - Consulting 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_2} = 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} - Supercompressibility 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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