

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Angel Peak Formation Dakota County San Jaun
Initial XX Annual _____ Special _____ Date of Test 1-7-60
Company Sunset Int'l Petr. Lease Martin Federal Well No. 1-C
Unit B Sec. 3 Twp. 27N Rge. 10W Purchaser Southern Union Gas
Casing 5 1/2 Wt. 15.5 I.D. _____ Set at 6572 Perf. 6546 To 6354
Tubing 2" BUE Wt. 4.7 I.D. 2" Set at 6524 Perf. Pin 6546 Collar on bottom
Gas Pay: From 6354 To 6546 L _____ xG .670 -GL _____ Bar.Press. _____
Producing Thru: Casing _____ Tubing XX Type Well Single Gas
Single-Bradenhead-G. G. or G.O. Dual
Date of Completion: 12-24-59 Packer None Reservoir Temp. 176

OBSERVED DATA

Tested Through (~~Prover~~) (Choke) (~~Prover~~) 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						1475		1969		
1.										
2.										
3.		3/4	596		80			1090		3 hours
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.							
2.	12.3650		608	0.9813	0.9463	1.064	7426
3.							
4.							
5.							

PRESSURE CALCULATIONS

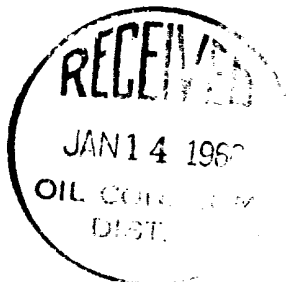
Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
Gravity of Liquid Hydrocarbons _____ deg.
F_c _____ (1-e^{-s})
Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
P_c 1981 P_c 3934

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.									
2.									
3.	1102					1214	2720		
4.									
5.									

Absolute Potential: 9,750 MCFPD MCFPD; n 0.75

COMPANY _____ Box 568
ADDRESS Sunset Int'l Petr. Beverly Hills, Calif Bloomfield
AGENT and TITLE Thomas E Popp T.Popp 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 .

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