

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Undesignated Formation Dakota County San Juan

Initial X Annual _____ Special _____ Date of Test 10-16-59

Company International Oil Corp. Lease 02753 Well No. B.E. Fogelson#1

Unit P Sec. 27 Twp. 30N Rge. 11W Purchaser Unknown

Casing 5 1/8" Wt. 15.5# I.D. _____ Set at 7071 Perf. 6768 To 6934

Tubing 2 3/8 Wt. 4.7# I.D. 1.995 Set at 6769 Perf. 6765 To 6769

Gas Pay: From 6768 To 6934 L. 6765 xG .660 -GL 4465 Bar.Press. 12#

Producing Thru: Casing No Tubing Yes Type Well Single Gas

Single-Bradenhead-G. G. or G.O. Dual

Date of Completion: 10-4-59 Packer _____ Reservoir Temp. _____

OBSERVED DATA

Tested Through (~~Prover~~) (Choke) (~~Bottom~~) 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						1735		1880		7 day SI
1.		3/4"				312		830		3 hr test
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		324	.9905	.9535	1.031	4467
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 1892 P_c² 3,579,664

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.						708,964	2,870,700		.445
2.									
3.									
4.									
5.									

Absolute Potential: 5,280 MCFPD; n (1.25)⁷⁵ 1.1821
 COMPANY International Oil Corporation
 ADDRESS Republic Bank Building, Dallas, Texas
 AGENT and TITLE Frank [Signature] Authorized Agent
 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} = 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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