MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool	Pool Basin Daketa			Formation Dakota				County San Juan			
Init	ialX	Ann	ual		Spec	ial		_Date of T	rest	9-4-65	
Comp	any Cempas	s Explorat	ion, In	C	LeaseE	erker Do	ome Gas Ce	Well	l No	1	
Unit A Sec23 Twp31N Rge13W Purchaser											
Casing 4 1/2 Wt. 10.50/1.D. Set at 6755 Perf. 6606 To 6692											
Tubing 1 1/2 Wt. 2.75 I.D. Set at 6667 Perf. Open End To											
Gas Pay: From 6606 To 6692 L xG 650 -GL Bar.Press.											
Producing Thru: Casing Tubing X Type Well Single-Ges Single-Bradenhead-G. G. or G.O. Dual											
Date of Completion: 8-25-65 Packer None Reservoir Temp.											
OBSERVED DATA											
Test	ed Through	(1990991)	(Choke)) (MANGER)X				Type Taps			
Flow Data Tubing Data Casing Data											
No.		(Choke)					Temp.		1	Duration of Flow	
	Size	Size	psig	h _w	°F.		°F,		°₹°	Hr.	
SI l.	· · · · · · · · · · · · · · · · · · ·					1702		1702			
2. 3.	2"	3/4"	142		85			775		3 hours	
4. 5.											
FLOW CALCULATIONS											
No.	Coefficient (24-Hour) √ h _w					Temp.	Gravity Factor	Compress. Rate of Floring Factor Q-MCFPD © 15.025 ps.		Q-MCFPD	
1. 2.											
3。	12.365			154			_9608	1.013 1810		1810	
4. 5.											
PRESSURE CALCULATIONS Gas Liquid Hydrocarbon Ratiocf/bbl.											
No.	P _w Pt (psia)	Pt ²	F _c Q	(F _c Q) ²	(F (1	(cQ) ² -e ^{-s})	P _w 2	$P_c^2 - P_w^2$	Cal P,	P _w P _c	
1. 2.	787						620 760	2 72 9 42		1 2/22	
3. 4.	(*)						619,369	2,318,42	1	1.2672	
Absolute Potential: 2162 MCFPD; n .75 1.1943 COMPANY Compass Exploration, Inc. ADDRESS P. O. Bex 1138, Farmington, New Mexice AGENT and TITLE Parallel Area Manager											
WI:TNESSED COMPANY											
					REM	ARKS		(SI	EP 32 T	ე95 y∪ M	

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 Tactual rate of flow at end of flow period at W. H. working pressure (Pw). MCF/da. @ 15.025 psia and 600 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
- Pt Flowing wellhead pressure (tubing if flowing through tubing, casing if flowing through casing.) psia
- Pf Meter pressure, psia.
- hw Differential méter pressure, inches water.
- Fg Gravity correction factor.
- F_t Flowing temperature correction factor.
- F_{pv} Supercompressability factor.
- n I 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 .