NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised 12-1-55

Pool	DI BASIN DAKOTA			rmation_	D/	DAKOTA		County	San J	Juan	
Initial x Annual Special Date of Test 8/6/64											
Comp	any Be	ta Develo	oment Co.	I	ease	Federal	н ри	Wel	l No	1	L
Unit _ j Sec. 33 Twp. 30 N Rge. 11 w Purchaser El Paso Natural Gas Co.											
Casing 4 1/2" Wt. 10.50#I.D. 4.052 Set at 6801 Perf. 6666 To 6732											
Tubing 2 3/8" Wt. 4.70 I.D. 1.995 Set at 6740 Perf. Open To End											
Gas Pay: From 6666 To 6732 L 6730 xG 670 -GL 4509 Bar. Press. 12.0											
Producing Thru: Casing Tubing X Type Well Single - Gas Single-Bradenhead-G. G. or G.O. Dual											
Date of Completion: 7/28/64 Packer Reservoir Temp.											
OBSERVED DATA											
Tosted Intologic Control Pate											
		(Choke)	1	Diff.	Temp.	Press.	Temp.	Press.	Temp.	1	Duration of Flow
No.	(Line) Size	Dobbbee Size	psig	h _w	o _F .	psig	٥ _۴ ،	psig	°F.		Hr.
SI						1841		1819			7 Days
1. 2.		3/4	200		76	200	76	804			3-Hre.
<u>3.</u>							-			-	
4.					····				 	┿~~	
5.		<u> </u>		L				L	<u> </u>		
No.	Coefficient (24-Hour) $\sqrt{h_w p_f}$			Pressure F		CULATION: Temp. ctor	Gravity	y Compress. Factor		Rate of Flow Q-MCFPD @ 15.025 psia	
1.	12.3650			212		0	.9463	1.020		2,492	
2. 3.											
4. 5.											
Gas Liquid Hydrocarbon Ratio cf/bbl. Specific Gravity Separator Gas Specific Gravity Flowing Fluid Pc 1853 Pc 3433.6											
r c			_(1=0				Pw	816 Pw2		665.8	
No.	P _w Pt (psia)	Pt ²	F _c Q	$(F_cQ)^2$	(F _c Q) ² 1-e ^{-s})	P _w 2	P _c ² -P _w ²	C	Cal.	P _w P _c
1. 2.							665.8	2767	•8		- 440
3.											
4.									- 		
5.											
Absolute Potential: 2,929 MCFPD; n_75											
COMPANY Bets Development Co. ADDRESS 234 Petr. Club Plaza, Farmington, New Mexico											1/1
AGENT and TITLE Coarse I. Hoffman, Production Engineer									1 125	ul.	YED \
WITNESSED H. McAnelly									AUC	12	100 - 1
WITNESSED H. McAnally COMPANY El Paso Natural Gas Co. REMARKS OIL CON. COM. DIST. 3											

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 I Actual rate of flow at end of flow period at W. H. working pressure ($P_{\rm W}$). 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
- Pf Meter pressure, psia.
- hw Differential meter pressure, inches water.
- Fg Gravity correction factor.
- Ft_{-} Flowing temperature correction factor.
- F_{pv} Supercompressability factor.
- n I Slope of back pressure curve.

Note: If $P_{\rm W}$ cannot be taken because of manner of completion or condition of well, then $P_{\rm W}$ must be calculated by adding the pressure drop due to friction within the flow string to $P_{\rm t}$.