Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool	BA	SIN D	AKOTA	-		POINT BA			FOR GAS	County	AN JUA	N		
								_Date of Test_12/9/64						
Company Southern Union Production Co.														
Unit G Sec. 5 Twp. 26-N Rge. 8-W Purchaser EL Page NATURAL GAS COMPANY														
										T			<u>.</u>	
Tubing 1-1/2 Wt. 2.90 I.D. 1.610 Set at 6643 Perf. 6635 To 6643 Gas Pay: From 6477 To 6734 L 6635 xG .735 GL 4877 Bar. Press. 12.0														
Producing Thru: Casing														
Dot -	iucing		. vas	11/24/	64	Packet	, 62	Sin	gle-Brade Reservo	nhe sd-G. G	or G	.O. Du	al	
Date	OI U	Omb Te	c10n:			racker		ED DATA						
			4-	\		(35.4. N		DU DATA		Time Tane				
Tested Through (Prover) (Choke) (Met							Tubing Data			Type Taps				
$\overline{}$	(Pr	over)	(Cho	low Dat		. Diff.	Temp.		Temp.	Press.	Temp.	I	uration of Flow	
No.	(L	ine) ize	(Orif	ice)	psig		$\circ_{\mathbf{F}_{\bullet}}$	psig	o _F .	1 - 0	°F.		Hr.	
SI			1				- 7.7	1976 178	66				DAYS	
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3.														
4. 5.			 			 			 					
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	i i i					ure Flow Temp. Gravity				Compress. Rate of Flow Q-MCFPD				
No.	(24-Hour)			√ h _w p _f psi		psia	Factor F _t		Factor F _g	F _{DV}			025 psia	
1.	12.3650		·	- / V 'W		90	.9943		.9035		1.021		2155	
2.														
3.														
4. 5.														
Gas	Liquio	i Hydr	rocarbon	n Ratio)		cf/bbl		Speci	ific Gravi ific Gravi	ty Sepa	arator wing F	Gas	
Gravity of Liquid Hydrocarbons Fc 16.46 (1-e-8)							deg	988	88 P _c 3952144					
· c				`	_			_	-					
No.	P _w Pt (psia)		P	E Fo	Q	(F _c Q) ²	2 {	F _c Q) ² 1-e ^{-s})	P _w 2	P _c -P _w ²		al. P _w	$\frac{P_{\mathbf{w}}}{P_{\mathbf{C}}}$	
1.	19		3610	0 35	.471	1258.1		6.199	412299	353984	5 64	2	323	
1. 2.														
3. 4. 5.														
5.				2341				.7	15	<u> </u>				
			ntial: HERN UN	- •	KODUC	TON COM	MCFPD PARY	; n		15	11.11			
A DI	COMPANY SOUTHERN UNION PRODUCTION COMPANY ADDRESS P. O. Box 808, FARMINGTON, NEW MEXICO										THAIR /			
			LE VERNE ROCKHOLD, JR. ENGINEER JESS GOODMAN							- \877	1964			
WITNESSED JESS GOSDMAN COMPANY EL PASS NATURAL GAS COM							OMPANY		- AE	OFC 1 1964 OIL CON. COM.				
REMARKS										/ ~"	OIL DIST. 3			
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(1)	FI P	Aso N	ATURAL	GAS CO	., PR	ORATION .	DEPT. P.	O.Bex 14	192, EL PA	so, TEXAS	-	-		
(1) (1)	MR. FILE	M. L.	KINDRI	CKS, B	マス ゲゲ	V, FARMI	nerun, I	New Mexic						

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 (Pw). MCF/da. @ 15.025 psia and 600 F.
- P_c = 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater.
- PwT 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 meter pressure, inches water.
- Fg Gravity correction factor.
- F_t Flowing temperature correction factor.
- $F_{\rm DV}$ Supercompressability factor.
- n I Slope of back pressure curve.
- Note: If $P_{\mathbf{W}}$ cannot be taken because of manner of completion or condition of well, then $P_{\mathbf{W}}$ must be calculated by adding the pressure drop due to friction within the flow string to $P_{\mathbf{t}}$.