HITER HERE 600

Pool Eumont

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS 101 10:21 Formation Yates-Seven Rivers-Queen County Lea

Revised 12-1-55

Ini	itial		Annua	al_X		Spec	ial		_Date of	Test	7-30-56	
Company Stanolind Oil and Gas Company Lease O.J. Gillully "B" Well No. 4												
Unit D Sec. 22 Twp. 20-S Rge. 37-E Purchaser Permian Basin Pipeline Company												
Casing 5-1/2" Wt. 17.0# I.D. 4.892" Set at 3766' Perf. 2630' To 3550'												
Tubing 2 Wt. 4.7 I.D. 1.995 Set at Perf. To												
Gas Pay: From 2630' To 3550' L 2630' xG 0.690 -GL 1815' Bar. Press. 13.2												
Producing Thru: Casing Tubing Type Well G.O. Dual Single-Bradenhead-G. G. or G.O. Dual												
Single-Bradenhead-G. G. or G.O. Dual Date of Completion: 3-1-54 Packer Reservoir Temp.												
OBSERVED DATA												
Tested Through (Division) (Meter) Type Taps Pipe												
Flow Data Tubing Data Casing Data												
No.	(DECEMBE) (CE				Diff.	Temp.	Press.			Temp.	Duration of Flow	
	Size			psig	h _w	°F•	psig	°F.	psig	°F∙	Hr.	
SI		1							1047.2		69 S.I.	
1.	4.0"	2.0		467.7		73			917.1		26-1/2	
2 . 3 .	4.0 ^H	2.0			17.4 30.3	<u>89</u> 55		 	848•2 787•8		24 24	
4.	4.0 ^H	2.0			43.4	54		 	746.7		24	
4. 5.				7121	7234			<u> </u>	140.1			
	FLOW CALCULATIONS Coefficient Pressure Flow Temp. Gravity Compress. Rate of Flow											
No.		1	- / h -	_		Fac	tor	Factor	Facto	r	Q-MCFPD	
	(24-Hour)		√ h _w p _f			F.	t	Fg	Fpv		@ 15.025 psia	
1.			55.9			0.9877		0.9325	1.03		1605 2611	
2. 3.	29 • 92 29 • 92		92.64 123.70		1.004			0.9325	1.052		3648	
) c	29.92		145.4			1.005		0.9325	1.05		4288	
4. 5.	2/0/2	27072		-		2000		007307		4.50		
PRESSURE CALCULATIONS												
Grav:	as Liquid Hydrocarbon Ratiocf/bbl. Speciare Speciare Color								fic Gravity Flowing Fluid			
	1.812			$(1-e^{-S})$ 0.117				P _c	L060.4	$P_{\rm c}^2$	1124.4	
No.	P _w Pt (psia)	Pt			(F _c €) ²	(1	Q) ² -e ^{-s})	P _w 2	$P_c^2 - P_w^2$	Ca.	w Pc	
1.		865.5			8.456		894	866.5	257.9	930•9	988]	
2 . 3 .		742.0			22.38 43.69	2.6	12	744.6 646.7	379.8 477.7	862.9		
4.		577 -4		6.610 43.69 7.770 60.3				584.5	539-9	764.5		
5.						7.063		J-4-7	///-1	1040		
Absolute Porential: 8932 MCFPD; n 1.0 (Limited) COMPANY Stanolind (Vil and Gas Company ADDRESS Box 68 - Hobbs, New Mexico AGENT and TITLE WITNESSED COMPANY												
						REM	ARKS					

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 600 F.
- $P_c=72$ hour wellhead shut-in casing (or tubing) pressure whichever is greater.
- 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 meter pressure, inches water.
- Fg Gravity correction factor.
- F_t Flowing temperature correction factor.
- F_{DV} 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 .