1 - Midland 1 - File

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

MULTI-POINT BACK PRESSURE TEST FOR TORS WELLS

AN 8 39 Hevised 12-1-55

Pool Eumont			F	FormationQueen			County Lea				
Init	ial	Ann	ual		Spec	ial				i-17-63	
Comp	anyTi	dewater Qi.	l Compar	ıy	Lease St	ate "AC"		Wel	l No.	1	
Company Tidewater Gil Company Lease State "AC" Well No. Unit P Sec. 5 Twp. 19 Rge. 37 Purchaser El Paso Nat. Gas Co.											
Casing 5-1/2 Wt. 15.5 I.D.											
Tubing 2 Wt. 4.7 I.D. Set at 3728 Perf. To											
Gas Pay: From 3536 To 3827 L 3728 xG .679 -GL 2531 Bar.Press. 13.2											
Producing Thru: Casing Tubing Type Well											
Producing Thru: Casing Tubing Type Well Single Date of Completion: 2-18-56 Packer None Single-Bradenhead-G. G. or G.O. Dual Reservoir Temp.											
OBSERVED DATA Tested Through (Prover) (Choke) (Meter) Type Taps											
		Flow									
$\overline{}$	/(PROPER	(Choke)	Press	Diff.	Temp.	Tubing Press.		Casing D	Temp.	Duration	
No.	(Line) Size	(Orifice) Size	psig	h	o _F .	p sig	o _F ,		o _F .	of Flow	
SI	5120	5126	here	h _w	r•	603	Γ.	psig	r.	Hr.	
1.	4	.750	535	12.35		591		596		24	
2 . 3 .	4	.750	563	11.36	61	583		587		- 24	
4. 5.		obtain a i-Point Te							.625 w	s taken	
No.	Coefficient $\sqrt{h_{\mathbf{w}}p_{\mathbf{f}}}$ P			FLOW CALCULA ressure Flow Temp Factor psia F _t		emp.	Gravity Comp		ress. Rate of Flow tor Q-MCFPD @ 15.025 psia		
1.	3,435	31.	81.95		1.0068		.9400	1,066		284.0	
2.	3.435	81.	61		.9990		.9400	1.064		280.0	
3. 4. 5.								- -			
5.											
PRESSURE CALCULATIONS as Liquid Hydrocarbon Ratio cf/bbl. Specific Gravity Separator Gas61 aravity of Liquid Hydrocarbons deg. Specific Gravity Flowing Fluid begin{align*}											
No.	FW Pt (psia)		F _c Q	$(F_cQ)^2$	(F _C	Q) ² -e ^{-s})	P _w 2	$P_c^2 - P_w^2$	Cal P	P _W	
1.	604.2	365.0 355.4	Meas	eree		1	371.1 360.2	7.4 18.3	<u> </u>	·	
$\frac{\tilde{3}\cdot 1}{3}$	596.2	7.00		7			-4444	-4.4	 		
1. 2. 3. 4.									+		
Absolute Potential: 3100 MCFPD; n .792 COMPANY Tidewater Uil Co.											
ADDRESS Box 249, Hobbs, N. Mex. AGENT and TITLE B. M. Breining, Area Engineer											
	r and TITLE ESSED	L. D.	Souther	A			1. III. E	treining	<u></u>		
COMPANY El Paso Natural Gas Co.											

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 \equiv 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
- 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.
- Ft Flowing temperature correction factor.
- F_{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 $P_{\mathbf{t}}$.