my fr

NEW MEXICO OIL CONSERVATION COMMISSION HORRS OFFICE GOO

Form C-122

MULTI-POINT BACK PRESSURES TEST FOR GAS WELLS G

Revised 12-1-55

Poo!	l Eun	ont		Fc	rmation	- Q1	seen (Pen	rose)	_County	Lea		
Init	tial		_Annua	1		Spec	ial	x	_Date of	Test	8-31-56	
Comp	pany Tide	water (oil Con	ap any		Lease	State "	AF"	Wel	l No	1	
Unit C Sec. 18 Twp. 218 Rge. 378 Purchaser EPNG Co.												
	ing 5-1/2 W			_	-							
	ing 2-3/8 W											
Gas Pay: From 3545 To 3638 L 3530 xG 0.680 -GL 2400 Bar.Press. 13.2												
Producing Thru: Casing Tubing X Type Well Single Single-Bradenhead-G. G. or G.O. Dual												
Single-Bradenhead-G. G. or G.O. Dual Date of Completion: 5-3-56 Packer None Reservoir Temp. 93° F.												
OBSERVED DATA												
Tested Through (Rrever) (Cheke) (Meter) Type Taps Flange												
Flow Data							Tubing Data		Casing Data			
	(Prover)				Diff	Temp			Press.	Tem.	Duration	
No.	(Line)	(Orif	ice)		j	_	psig		psig	l	of Flow	
SI	Size	51	ze	psig	γ n _w	f •	700	Г	708	F •	72	
7.1	h*	1.0	00	601	3.3	78	667		671		24	
2. 3. 4. 5.	4"	1.0	00	572	3.8	80	614		652		24	
3.	4"	1.0	00	580	4.6	78	600		63L		21	
4.	<u>L</u> "	1.0	00	588	5.3	76	* 588	_	620		24	
<u>5. l</u>	# Unable to	obtet	209	in out d	om due	to ehole	A diversion	neter v	1170	L		
* Unable to obtain 30% draw down due to choke size in meter run. FLOW CALCULATIONS												
	Coefficient Pressure Flow Temp.					Temp.	Gravity Compress. Rate of Flow					
No.						Fac		Factor	Factor		Q-MCFPD	
	(24-Hou	ır) -	$\sqrt{h_{w}p_{f}}$ 1		psia	F	t I	$\mathbf{F}_{\mathbf{g}}$	Factor F _{pv}		@ 15.025 psia	
7.	6.135				24.8 0.98		1	0.9393	1.064		1494	
2.	6.135		91.91		24.2 0.98		3	0.9393	1.058		549	
3.	6.135		112.02		24.4	0.98	ŭ	9.9393	1.064		675	
4.	6.135		129.	93	24.5	0.98	50	0.9393	1.064		784	
1. 2. 3. 4. 5.							,					
PRESSURE CALCULATIONS Gas Liquid Hydrocarbon Ratio Dry Gas cf/bbl. Specific Gravity Separator Gas 0.680 Gravity of Liquid Hydrocarbons deg. Specific Gravity Flowing Fluid Pc 721.2 Pc 520.1												
No.	P _W	Pt2	1 -	2	$(F_cQ)^2$	(F (1	cQ) ² -e-s)	P _w 2	$P_c^2 - P_w^2$	F	PW Pc	
1. 2.	680.2	462.7						468.1	52.0	684	94.8	
۷٠	627.2	393.4		=-				112.5	77.6	665	90.8	
3.	613.2 601.2	376.0 361.4						118.9	101.2	647	89.7	
4. 5.	WI.E	702.04	1-7	\leftarrow				100.9	119.2	633	101.0	
Absolute Potential: 2.150 MCFPD; n / 0.785												
	PANY	ide	ra tex	OT 1/Co	ED STY							
COMPANY Tidewater Oil/Company ADDRESS Box 517, Hebos, New Mexico												
AGENT and TITLE E. W. Hogue, Acting Area Superintendent ful Hogue, WITNESSED E.C. Smith												
	nesseu Pany	EPNO							 			
OOPI	T WINT					REM	ARKS					

Har Henry

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. 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
- P_{t-} Flowing wellhead pressure (tubing if flowing through tubing, casing if flowing through casing.) psia
- Pf Meter pressure, psia.
- $h_{\mbox{W}}$ 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 $P_{\rm W}$ 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 $P_{\rm t}$.