NEW MEXICO OIL OPRISES AR FON COMPASSION

1957 FEB 11 AM 9:48 MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Form C-122
Revised 12-1-55

Pool rurent Fo					'ormation	Y-cp-	n	·	County	Lea		
Initial Annual			x	x Special_			Date of Test6-13-56					
Con	npany	e-Tex		~		Lease Wallace State Well No. 3						
Uni	it <u> </u>	Sec3	Tw	p. <u> </u>	lRg	ge. 36 Purchaser Couthern mion Gas o many						
Cas	sing 7 5/8 V	Nt	I	.D	Se	Set atPerfTo						
Tubing one Wt. I.D. Set at Perf. To												
Gas Pay: From 2940 To 3590 L 2000 xG 668 -GL 1963.9 Bar.Press. 13.2												
	Producing Thru: Casing x Tubing Type Well Single											
Date of Completion: Packer Single-Bradenhead-G. G. or G.O. I Reservoir Temp.										.O. Dual		
							ED DATA	_				
Tes	ited Through	(Prove	<u></u>) (Chalse)	(Meter)		DD DAIN		Trme Ten	. M	2000	
Tested Through (Proves) (Chebs) (Therety			Type Taps				
	(Prover)		ow Da		Diff	Ma	Tubing	Data	Casing Da			
٦.	(Line)	(Orifi	.ce)	11655		remp.	Press.	Temp.	Press.	Temp.	Duration of Flow	
-	Size	Siz	e	psig	h _w	°F.	psig	o _F .	psig	°F∙	Hr.	
		<u> </u>							1011		72 tr.	
	1,0	1.75		510		55			855		2E 12.	
);#	1.75		5 <u>10</u>	5 8	59 59			825		24 hr.	
_	Lin.	1,75		510	11	60			716 662		24 m	
No.		Coefficient $\sqrt{h_{\mathbf{w}}p_{\mathbf{f}}}$ P			FLOW CALC Pessure Flow T 13.2 Fact psia Ft		Temp.	Gravity	Factor	•	Rate of Flow Q-MCFPD @ 15.025 psia	
1.	19.27	,	39.6160		523.2	1.00		Դ. բև 17	F _{pv}		?71.3	
2.	19.27		51.1.40		523.2	1.00		0.9177	1.05		990.1	
1. 2. 3. 4.	19.27		65.3013		533.2		1.0010		1.059		1764.2	
4.	19.27		75.697		523.2	1.00	1.0000		1.059		1/207-3	
PRESSURE CALCULATIONS as Liquid Hydrocarbon Ratio ry cf/bbl. Specific Gravity Separator Gas •668 ravity of Liquid Hydrocarbons ione deg. Specific Gravity Flowing Fluid CP casured (1-e-s) P _C 102h•2 P _C 10h9•0												
No.	Pt (psia)	${ t P}_{f t}^2$	Fc	Q	$(F_cQ)^2$	(F.	c ^Q) ² -e ^{-s})	P _w 2	P _c ² -P _w ²	Ca P	y Pc	
1.	868 .2 838 . 2							753.6	295.2		1 44	
~•	729.2		+					702.6 531.7	346.4 517.3	1	71.2	
1. 2. 3. 4.	675.2							1:55.9	593.1	1	65.9	
Abs COM	olute Potent PANY /// / RESS	ial:_	Ly.	3550 Ly	20-	_MCFPD;	n	•96				
AGE WIT	NT and TITLE NESSED PANY	i Ca	Ja Sur	npl	Tee		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 = 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
- Pw 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.
- Fpv 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_+ .