HOBBS OFFICE OCC NEW MEXICO OIL CONSERVATION COMMISSION 1956 SEP 21 AM 9:56

Form C-122

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised 12-1-55

100'	Sumon's		F	ormation	Que	<u> </u>		County_	Loa	
nitial_	<u> </u>	Ann	ual		Spec	ial		_Date of	Test	8-24-56
ompany	the Texa	is Comp	any		Lease	illiam	Weir	Wel	ll No	2
nit	Sec.	_ 23 _T\	wp. 19	-8 Rg	e. 36-E	Purc	haser_Pe	rmien B	asin P	ipe Line G
asing	7Wt	24.0	I.D. <u>6.</u>	336 Se	t at 370	Pe:	rf		_То	
ubing 2	7/8 Wt	6.5	I.D. 2.	441 Se	t at 371	7 Per	rf. Gp e	a end	_To	
as Pay:	From 37	100 To_	3925	L_ 37 .	17 x(G_,690		565	Bar.Pre	ss. 13.2
oducing	Thru:	Casing_		Tul	oing <u>X</u>		Type We	11 81	arle	
te of Co	ompletion	:_5-1	3-55	Packer	r	Sing	gle-Brade Reservo	enhead-G. oir Temp.	G. or G	.O. Dual
	.08% H ₂				OBSERVE					
	rough (P	-		(Meter)				Type Tap	sP	ipe
		Flow D				Tubing	Data	Casing D	ata	
(Pre	ine) (0	rifice)						Press.	Temp.	Duration of Flow
	ize	Size	psig	h _w	° _F .			psig	°F∙	Hr.
1		1.73	460.1	4.1	60	904.7 850.1				70 1/4
1	-	1.75	462.0	19.1	62	728.8 625.2	<u>.</u>			23 3/4 23 3/4
-		1.73		11.5		342,9				24, 1/4
			+			1				
Coe	fficient		Pr		LOW CALC Flow T		7	Compre	ss.	Rate of Flow
(2	(24-Hour)		$\sqrt{ ext{h}_{ ext{W}} ext{p}_{ ext{f}}}$ psia		Factor F+		Factor F-	Facto F _{pv}	r	Q-MCFPD @ 15.025 psia
21	69	44	.06 4	73.3	1.000	9	.9325	1,0	752	937
21	.69	120	• 27 4	75.2	.99		.9325		152	2,023
21	.69	138		62.9	.99		.9325		43	2,902
1										
				ממס	compr. a.	COUCAMITO	NC.			
Liquid	Uzzdana o na sa	om Dot:			SSURE CA	LCU ATIO			_	
vity of	Hydrocarb Liquid Hy	/drocarb	ons		cf/bbl. deg.	LCU ATIO	Speci: Speci:	fic Gravi	ty Flow:	rator Gas
Liquid vity of		/drocarb			cf/bbl. deg.	LCU ATIO	Speci: Speci:		ty Flow:	ing Fluid
Liquid vity of	Liquid Hy	vdrocarb	ons	0.162	cf/bbl. deg.		Speci: Speci:	fic Gravi	ty Flow:	ing Fluid
7.866	Liquid Hy	vdrocarb	ons		cf/bbl. deg.	Q) ²	Speci: Speci:	fic Gravi	ty Flow:	ing Fluid
yity of 1	Liquid Hy	vdrocarb	ons 1-e ^{-s})	0.162	cf/bbl. deg. (Fc		Speci: Speci: P _c	fic Gravi	ty Flow	ing Fluid
P _w Pt (p	Liquid Hy	Pt F	ons 1-e ^{-s})	(F _c Q) ²	cf/bbl. deg. (Fc	Q) ² e ^{-s})	Speci: Speci: Pc	P _c -P _w	ty Flow:	l. Pw Pc
Liquid vity of 5.266	Liquid Hy	Pt F	ons 1-e ^{-s})	0.162 (F _c Q) ² 30.21 140.8 222.9	cf/bbl. deg. (Fc	Q) ² e ^{-s})	Speci: Speci: Pc	P _c -P _w	Cal	ing Fluid P.W. P.C. 2
Liquid vity of 5.866	Liquid Hy	Pt F	ons 1-e ^{-s})	(F _c Q) ²	cf/bbl. deg. (Fc	Q) ² e ^{-s})	Speci: Speci: Pc	P _c -P _w	ty Flow	ing Fluid P.W. Pc. 2
Liquid vity of S. 266	Liquid Hy	Pt F	ons 1-e ^{-s})	0.162 (F _c Q) ² 30.21 140.8 222.9 249.7	cf/bbl. deg. (Fc	Q) ² e ^{-s})	Speci: Speci: Pc	P _c -P _w	Cal	ing Fluid P.W. P.C. 2
Pw Pt (p	sia)	Pt F	ons 1-e ^{-s})	(F _c Q) ² 30.21 140.8 222.0 249.7	cf/bbl. deg. (Fc (1-	Q) ² e ^{-s})	Speci: Speci: Pc Pw2	P _c -P _w 22.3 269.0 196.8	Ca. P	ing Fluid 1. Pw Pc 1
P _w Pt (p	sia) sia) sia) output title	Pt F	ons 1-e ^{-s}) c ^Q .496 .77	(F _c Q) ² 30.21 140.8 222.9 289.7	cf/bbl. deg. (Fc (1-	Q) ² e ^{-s})	Speci: Speci: Pc Pw2	P _c -P _w 22.3 269.0 196.8	Cal	ing Fluid 1. Pw Pc 1

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_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
- P_{f} 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_t .