NEW MEXICO OIL CONSERVATION COMMISSION

CAJAM FORM C-

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

10.		0-1
Revised	12	-1-55

.	1 Undest			_rormacion	PICO	tured GL1	IIIs	_County	Rio	Arriba	
Ini	tialX		innual_		Spec:	ial		_Date of	Test 7	-22-61	
Com	pany Shar-	alan Oil	Company	<u>9</u>	Lease	Abraham-	-Federal	Wel	1 No	2	
Uni	ts	ec. <u>30</u>	_Twp2/	4 N Rg	e. 1 W	Purc	haser				
Cas	ing 45# W	t. 9.5#	I.D	Se	t at 349)01 Pe:	rf3408	31	То	34181	
Tub	ing $1\frac{1}{4}$ W	t. 2.4#	I.D	Se	t at <u>34</u> !	5 <u>6</u> Pe	rf		To		
Gas	Gas Pay: From 3408 To 3418 L 3408 xG 65 -GL 2215 Bar.Press.										
Pro	ducing Thru:	Casir	ıg <u>X</u>	Tu	bing	-	Type Wei	11 <u>Si</u>	ngle		
Date	e of Complet	ion:4	-29-61	Packe	rNone	Sing	gle-Brade Reservo	nhead-G. ir Temp	G. or G	.0. Dual	
					OBSERV	ED DATA					
Test	ted Through	(Prover	·) (Chok	e) (Meter)				Туре Тар	s		
			w Data			Tubing	Data	Casing D	ata		
$\overline{}$	(Prover)			ss. Diff.	Temp.		Temp.	Press.	Temp.	Duration	
No.	(Prover) (Line) Size	(Orific	;e)		ł i	psig	012		o _F .	of Flow Hr.	
SI	Size	Size	ps	ig h _w	F.	bsig	17 4	psig	F.	III •	
1.	211	3/4	97		600			675		3 Hr.	
2.											
3.		<u> </u>			ļ				 	 	
4. 5.					-				 		
		L									
 r	Cooffici		-		FLOW CAL			Compre	99. 1	Rate of Flow	
No.	Coefficient		Fa		Temp. Gravity		1 4		Q-MCFPD		
	(24-Hour) $\sqrt{h_{\mathbf{w}}p_{\mathbf{f}}}$		psia	psia F _t		F _g F _p		● 15.025 psia			
1.	12.365			102	1.000		•9608	1.0		1,222	
2.											
3。											
4.											
4.				QQ	ESSIPE C	A COULATIO	ONS				
4.				PR	ESSURE CA	ALCUIATIO	ONS				
4. 5. Sas 1	Liquid Hydro				cf/bbl.		Speci			rator Gas	
Gas l	ity of Liqui	d Hydrod	arbons		cf/bbl.		Speci. Speci	fic Gravi	ty Flow	ring Fluid	
Gas l		d Hydrod	arbons		cf/bbl.		Speci. Speci	fic Gravi	ty Flow		
Gas l	ity of Liqui 3.912	d Hydrod	arbons		cf/bbl.		Speci. Speci	fic Gravi	ty Flow	ring Fluid	
Gas Grav:	ity of Liqui	d Hydroc	earbons(1-e	s) 0.149	cf/bbl. deg.		Speci Speci P _c	fic Gravi 687	ty Flow	ring Fluid 471.869	
Gas l	ity of Liqui 3.912	d Hydrod	arbons		cf/bbl.deg.		Speci. Speci	fic Gravi	ty Flow	471.869	
Gas Grav:	ity of Liqui 3.912	d Hydroc	earbons(1-e	s) 0.149	cf/bbl.deg.	cQ) ² -e ^{-s})	Speci Speci P _c	fic Gravi 687	ty Flow	ring Fluid 471.869	
4. 5. Sas 1. No. 1. 2.	ity of Liqui 3.912 Pw Pt (psia)	d Hydrod	earbons(1-e-	s) 0.149 (F _c Q) ²	cf/bbl.deg.	cQ) ² -e ^{-s})	Speci Speci Pc- Pw2	fic Gravi 687 P _c -P _w ²	ty Flow	471.869	
4. 5. Sas I Grav. C. No. 1. 2. 3.	ity of Liqui 3.912 Pw Pt (psia)	d Hydrod	earbons(1-e-	s) 0.149 (F _c Q) ²	cf/bbl.deg.	cQ) ² -e ^{-s})	Speci Speci Pc- Pw2	fic Gravi 687 P _c -P _w ²	ty Flow	471.869	
4. 5. 5. Gas 1. No. 1. 2.	ity of Liqui 3.912 Pw Pt (psia)	d Hydrod	earbons(1-e-	s) 0.149 (F _c Q) ²	cf/bbl.deg.	cQ) ² -e ^{-s})	Speci Speci Pc- Pw2	fic Gravi 687 P _c -P _w ²	ty Flow	471.869	
Gas Grav: 7c	Pw Pt (psia) 102 olute Potent	Pt 10.40	F _c Q 4.782	s) 0.149 (F _c Q) ² 22.85	cf/bbl.deg.	cQ) ² -e ^{-s})	Speci Speci P _c P _w 2	fic Gravi 687 P _c -P _w ²	ty Flow	471.869	
Absorption 1. 2. 3. 4. 5. Absorption 1. 2. 3. 4. 5. Absorption 2. 3. 4. 5. Absorption 2. 4. 5. Absorption 2. 4. 5. Absorption 2. 4. 5. Absorption 2. 4. 6. COM	Pw Pt (psia) 102 olute Potent	Pt 10.40	F _c Q 4.782	s) 0.149 (F _c Q) ² 22.85	cf/bbl.deg.	cQ) ² -e ^{-s})	Speci Speci P _c P _w 2	fic Gravi 687 P _c -P _w ²	ty Flow	471.869	
Absorption ADDI	Pw Pt (psia) 102 olute Potent PANY_ RESS	Pt 10.40 ial: JAMISO FARMIN	F _c Q 1.300 N ENGR. GTON, N.	(F _c Q) ² 22.85	cf/bbl.deg.	cQ) ² -e ^{-s})	Speci Speci P _c P _w 2	fic Gravi 687 P _c -P _w ²	ty Flow	471.869	
Absorption Additional Company of the Absorption Company of the Abs	Pw Pt (psia) 102 olute Potent	Pt 10.40 ial: JAMISO FARMIN A.	F _c Q 1.300 N ENGR. GTON, N. G. JAMI	(F _c Q) ² 22.85 CO.	cf/bbl.deg.	cQ) ² -e ^{-s})	Speci Speci P _c P _w 2	fic Gravi 687 P _c -P _w ²	ty Flow	471.869	

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 (F_W). MCF/da. @ 15.025 psia and 600 F.
- P_c = 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater.
- Pw- 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.
- $h_{\mathbf{W}}^{\perp}$ Differential meter pressure, inches water.
- F_g : Gravity correction factor.
- F_t Flowing temperature correction factor.
- F_{pv} 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 $P_{\mathbf{t}}$.

