Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Poo]		Wildcat	;			Form	ation	Pictu	red Clif	fs	_County_	Rio Ar	ribe	
Init	ial_	<u> </u>		Ann	ual			Spec	ial		_Date of	Test	9-10-	5 6
Comp	any_	North	rest	Produc	tion C	orp.	I	ease	"S	tr .	Wel	.1 No	5-2	<u> </u>
-											Not conne			
Casi	.ng	5"	Wt	11.5#	I.D		Set	at_ 32	50 Pe	erf3	115	То	31.9	2
Tubi	ng_	11"	Wt	2.3#	I.D		Set	at_ 31 ;	32 P∈	erf	· · · · · · · · · · · · · · · · · · ·	То		
Date	of	Complet	tion:	8-2	5 6		Packer	. no	Sir	ngle-Brade Reservo	ell Si enhead-G. oir Temp.	G. or (G.O. 1	Dual
		_							ED DATA		• -			
Test	ed T	'hrough	<u>(</u>	ecois)	(Choke	e) (N	(masse)	Shut	in 12 d	ays.	Туре Тар	s	-	
				Flow	Data				Tubing	Data	Casing D		T	
No.	(F	DTNEAK Siecheis)	(C	hoke)	Pres	ss.	Diff.		Press.	Temp.				Duration of Flow
	•	Size		Size	1	.g	h _w	°F.		°F.	psig	°F∙		Hr.
SI l.		2"	3	/4	27	,		66	993 27	66	993 132	<u> </u>		hut-in hrs
2 . 3.					-	1								
4.														
5 . [<u> </u>							<u> </u>	L	1	1	
Т							FLOW CALCULATIONS Flow Temp. Gravit			Compre		Rate of Flow		
No.								Factor F _g			Q-MCFPD @ 15.025 psia			
l. 2.	14.1605					•9943			1.000		F3.6			
3.		1007				39	,	•>>	+3	•9393	1.0	300		516
3. 4.														
ravi		d Hydro f Liqui		drocar				SSURE CA	ALCU ATI	Speci Speci	fic Gravi fic Gravi 005		ving F	
					(-		··			- C		C	#	
No.	P _w	(psia)		Pt :	F _c Q	(:	F _c Q) ²	(F.	cQ) ² -e-s)	P _w 2	$P_c^2 - P_w^2$	Ca F	al.	Pw Pc
2. 3.	14)	4				#=				20.7	989.3			1.021
3. j													_	
	7+ -	Dem = 12			EOF	i		MORRE		05/2 050				
COMP	ANY_		Norti	west I		tion	Corpo			85/1.018				
GEN	ESSE	d TITLE	520 S	B. Ri	hildi chard	ng. A	lbuque III, I	erque, N Well Tes	t Engine	eer co				
, OIII .	******					71		REMA	ARKS		R	TW	M	

CP 14 1956 OIL CON. COM. DIST. 3

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
- P_{w}^{-} 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.
- $h_{\mbox{\scriptsize W}}\mbox{\footnotesize I}$ Differential meter pressure, inches water.
- Fg 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 $P_{\mathbf{t}}$.

0.C.C. - 3 L. G. Truby - 1 Geo. Peppin - 1 File - 1

PACIFIC NORTHWEST PIPELINE CORPORATION

DRILLING DEPARTMENT

			COME	PANY NORTHW	EST PRODUCTION (CORP.
			LEAS	SE "g"	WELL NO	5-2
			DATE	OF TEST	9-10-56	
			ng 993 casing 99 3	3 S.I. PER	IOD 12	DAYS
SIZE BI	OW NIPPLE	2 x 3/4 B-M	Choke	- E - , E -		
FLOW TH	ROUGH	Tubing		WORKING 1	PRESSURES FROM_	Casing
TIME HOURS	MINUTES	CHOKE PRESSURE	Q (MCFD) 15.025 PSIA & 60 ⁰ F	WELLHEAD V		TEMP
	34.5	95	1344	427		50
	41.5	88	1245	382		50 52 54 57 60 61 62 64 65
1 2	50	74	1047	338		<u>54</u>
	0	6 <u>3</u> 52	892 736	280 232		<u>57</u>
	12 26.5	43	608	194		61
	44	35	495	167		62
2	05	31	438	152		64
	30		411	143	· • • • • • • • • • • • • • • • • • • •	<u>65</u>
3_		51	382	132		_00_
		- Committee Committee	Uncorrected			
START 1	TEST AT	10:45 A.M.	END S	rest at	1:45 P.M.	
D70.4.D700			A 4. 0 4		6 tr	
REMARKS	: AT 41.5		t-in 2 min to check :	ice in enoke	U.A., REKING	Kereorius
	At 1½ h		pped making liquids.			
	At 15 h	rs: well beg	an high-pitched which	tle ut 43# b		but-in 1
	44 61 5	min to c	hekk; ne foreign nat		hind choke.	
	At 25 h		pped whistling; now propped gurgling.	ROLETTURE.		
	20 E-3/	THE WALL	copped But But 1115.			
			and the state of t			
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TESTED BY W. B. Richardson III