## MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

,oor	Undesig	nated		Fo	rmation.	Dak	ota		County	San	Juan	
nitial	itial X Annual			1	Special				Date of Test 10-20-59			
ompanj	Inter	ation	<u>a1 01</u>	1 Cor	perati	<b>⊛</b> se	02758		Well	l No.E	E.Fogelson	
it _	<b>P</b> 5	Sec. <u>27</u>	Twp	30N	Rge	. 11W	Pur	chaser_Un	knewn			
sing_	51 W	t. 17#	# I.	D	Set	at_ <b>70</b>	<b>71</b> Pe	erf. <u>67</u>	'68'	To 69	34	
									51			
											ss <b>. 12</b> #	
te of	Complet	ion: <b>1</b>	0-4-5	9	Packer	*	Sir	ngle-Brade Reserve	ell <b>Singl</b> enhead-G. ( oir Temp.	G. or G	.O. Dual	
	•	<del></del>					ED DATA	<del></del>				
	Through	<del>V</del> <del>Turnese</del>	<b>**</b> \ (0)	h = 1 = N	(Incorporat)	ODODINA	DD DRIN		Tree Ton	_		
	Inrough				(PRASA)				Type Tap:			
T (	Prover)		ow Dat		Diff.	Temp.	Press	Z Data Temp.	Casing Da	Temp.	Duration	
		(Orifi Siz	ce)	psig	Į	$\circ_{\mathrm{F}}$ .	psig		1	°F.	of Flow Hr.	
			-	Pore	**W		1850	<del>                                     </del>	1865		116 S.I.	
		10/64		730		70	1730		1770		24	
		12/64		610		70	1610	70	1670		24	
		14/64		500		70	1500	70	1550		24	
-		20/64		980		70	980	70	1050		24	
	.5133 .7741				4 <u>2</u> 22	Flow Temp. Factor Ft .9905		.9535 .9535	1.10	<u>4</u>	932 1256	
1	.0155				12	.9905		.9535	1.10		1601	
	2.0930		·		92	.9905		-9535	1.10	4	2165	
vity	uid Hydro of Liqui	d Hydro	carbo	ns _e <sup>-s</sup> )		of/bbl	CALCUIATI	Speci	ific Gravit	ty Sepa ty Flow Pc	rator Gas ring Fluid	
P <sub>w</sub>	(psia)	Pt <sup>2</sup>	Fc	5	$(F_cQ)^2$	(F	F <sub>c</sub> Q) <sup>2</sup> L-e-s)	P <sub>w</sub> 2	$P_c^2 - P_w^2$	Ca P	P <sub>W</sub> P <sub>C</sub>	
								3034.5	488.6	<del></del>		
		<del></del>	+					2630.8	892.3		<del></del>	
			+			_		2286.1	1237.0	1	- <del> </del>	
			+	-+		<del></del>		984.0	2539.1	<del>                                     </del>		
solut	e Potent  Ti	ial:	2550 tions ublic	Beni	Corps Palld	MCFPD;	n	1532 1, Texas	Authoriz	ed Age	int	
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OIL CON. COM
DIST. 2

## 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.
- FgI Gravity correction factor.
- Ft Flowing temperature correction factor.
- $F_{\text{DV}}$  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  $P_{+}$ .

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