3-OCC
1-H.L. Kendrick
1-B. Parrish
2-EPNG (El Paso, Farm.)
1-TCA
1-Snoddy (Holland)
1-F
MULTI-POINT BACK PRESSURE TEST FOR GAS WE

Form C-122 Revised 12-1-55

	_			MUL:	ri-Po	INT B	ACK 1	PRES	SURE TE	ST F	OR GAS	METT	<b>.</b> S				
Pool BASIN DAKOTA				Formation_				DAKOT A				_Cou	nty_	<del> </del>	San Juan		
Init	nitial X Annua							Special				_Date	e of	Test		2/4/64	
Comp	pany Bet	a Dev	elopme	nt C	io		Leas	e	Mar	tin "	'A"		Wel	1 No		1	
	. <b></b> S																
																t	
Casing 4 1/2" Wt. 10.50 I.D. 4.040 Set at 6608' Perf. 6400' To 6532'  Tubing 2 3/8" Wt. 4.70 I.D. 1.995 Set at 6516' Perf. Open To End																	
Gas Pay: From 6400' To 6532' L 6516' xG .73 _GL 4626' Bar.Press. 12.0																	
Producing Thru: Casing Tubing X Type Well Single - Gas Single-Bradenhead-G. G. or G.O. Dual																	
Date	e of Complet	ion:_	1/26	/64		Packe	r	·		R	eservo	ir T					
							OB	SERV	ED DATA								
Tested Through (Choke) (Metern) Type Taps																	
~			Flow Data							ng Data		Cas	ing D	ata	ta Temp. Duratio		
No.	(Prover) (Line)		oke) <b>XXXXX</b>		55.	Ulli.	•			Į.	-					of Flow	
	Size	Size		ps	ig	h <sub>w</sub>	°F.		psig	4_	o <sub>F</sub> ,		ig )55	°F.	-	Hr.	
SI 1.		3/4"		510			93		510	┼~			160	<del> </del>	7 Days		
2.		3/	4	<u> </u>													
3.														<del>                                     </del>	<del>                                     </del>		
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5.	<del> </del>			L										L.—.	<del>                                     </del>		
							FLOW	CAL	CULATIO	NS_							
								Flow Temp. Gravity			avity	Compress.			Rate	of Flow	
No.				psia				Factor F <sub>t</sub>			Factor Fg		Factor F <sub>pv</sub>		Q-MCFPD @ 15.025 psia		
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5.														1		. <del> </del>	
						PR	ESSU	RE C	ALCUI AT	'IONS	3						
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Gas Liquid Hydrocarbon Ratio cf/bbl. Specific Gravity Separator Gas_Gravity of Liquid Hydrocarbons deg. Specific Gravity Flowing Fluid_																	
$P_{c} = \frac{(1-e^{-s})}{P_{w}} = \frac{P_{c} = \frac{2067}{1172} P_{w}^{2} = \frac{4272.4}{1373.5}$																	
No.	$P_{\mathbf{W}}$	P	2   F	<sub>c</sub> Q	10	$(F_cQ)^2$		(F <sub>-</sub> Q'			P <sub>w</sub> 2	$P_c^2 - P_w^2$		l c	al.	$\frac{P_{\mathbf{W}}}{P_{\mathbf{C}}}$	
	Pt (psia)			c T	`	\- U •/		(1	(cQ) <sup>2</sup> (-e <sup>-s</sup> )		W			1	P <sub>w</sub>	P <sub>w</sub> P <sub>c</sub>	
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5.																	
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COM	PANY	Reta	Devel	oome	nt Co												
ADD	RESS	234	Petrol	eum	Club	Plaza	, Fa	rmin	aton. I	New N	<u>Mexico</u>						
AGENT and TITLE George L. Hoffman, Production Engineer WITNESSED H. McAnally														ALI		<del></del>	
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## 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 ( $P_{\rm W}$ ). MCF/da. @ 15.025 psia and 60° F.
- $P_c$ = 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater. psia
- 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
- Pf Meter pressure, psia.
- hw Differential meter pressure, inches water.
- $F_{g}$  Gravity correction factor.
- Ft Flowing temperature correction factor.
- Fpv 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  $P_{\mathbf{t}}$ .