NEW MEXICO OIL CONSERVATION COMMISSION

1-H.L. Kendrick 1-B. Parrish 2-EPMG - El Paso, Farm. 1-TCA, 1-Snoddy (Holland) 1-F

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Form C-122 Revised 12-1-55

Pool	Pool <u>RASIN DAKOTA</u>				F	Formation DAKOTA					County San Juan				
Init	Initial X Annual				al	Special					Date of Test1/23/64				
Company Beta Development Co. Lease Federal WRW Well No. 1															
Unit	Unit Sec. 28 Twp. 30 N Rge. 11 W Purchaser EPNG Co.														
Casi	ing_4	1/2" W	t • <u>10 •</u>	<u> 1</u>	.D	.040_Se	t at	7016	Perf	680	4"	To	691	2•	
Tubi	ing_ <b>2</b>	3/8" W	t. <u>4.</u> 7	<u>70</u> I	.D. <u>1</u>	1.995 Set at 6891°			Perf. Open		n	To	o <u>end</u>		
Gas	Gas Pay: From 6804 To 6912 L 6891 xG 67 _GL 4617 Bar. Press. 12.0														
Proc	ducing	g Thru:	Cas	ing_1	/16/6	4Tu	bing	X	Type	Well	Sing	1e - G	. O.	Dual	
						Packe									
	OBSERVED DATA														
Test	ted Th	nrough	(00000	BOXX (	Choke)	<u> (Mathematic</u>				Type Taps					
		· · · · · · · · · · · · · · · · · · ·		Flow Data		T Dies			ng Data		Casing D		Ī	Duration	
No.	(1	Line)	Gerid	igar)		Diff.			Tem			1	i	of Flow	
70.T	Size		Si	Size		h <sub>w</sub>	°F.		g op			°F.	Hr.		
SI l.	<del>_</del>	<del></del>	3.	4*	265	<del></del>	72	198			2005 885			Hrs.	
2.															
3. 4.			<u> </u>		<u> </u>			<del></del>				<del> </del>	+		
5.															
							RIOW CA	AT.CITT.ATT	ONS						
	FLOW CALCULATIONS  Coefficient   Pressure   Flow Temp.   Gravity   Compress.   Rate of Flow Temp.   Compress.   Compress.														
No.			$r)$ $\sqrt{h_w}$		<u> </u>		Factor F <sub>t</sub>		Factor Fg		Factor F <sub>pv</sub>		Q-MCFPD @ 15.025 psia		
1. 2.	12.3650					297	.988	7	.9463		1.026		3,524		
3.		<del></del>													
4. 5.															
5.1											<u> </u>				
						PR	ESSURE	CALCULA!	rions						
I	r = ~= .	d Uurduss	oo shor	Dati	^		cf/bb]	1 .	Sn	ecif:	ic Gravi	tv Sen	aratı	or Gas	
Gas Liquid Hydrocarbon Ratio Gravity of Liquid Hydrocarbons						deg. Sr				ecific Gravity Flowing Fluid					
				(	1-e <sup>-8</sup> )					2	P <sub>C</sub>			289	
									Pw		997	P <sub>w</sub> 2	804,	609	
No.	P <sub>w</sub>		₽ŧ	F	'cQ	(F <sub>c</sub> Q) <sup>2</sup>	2	$(F_cQ)^2$ $(1-e^{-s})$	P <sub>w</sub> 2		$P_c^2 - P_w^2$	1	al.	$\frac{P_{\mathbf{w}}}{P_{\mathbf{c}}}$	
<del>-</del>	Pt	(psia)		-+				(1-6 -)	804,60	0 3	.263,680		P <sub>w</sub>	-444	
1. 2.															
3. 4.					<del></del> -					-+					
<del>4.</del> 5.															
	olute PANY	Potent			S Opmen	t Co.	MCFP	D; n <u>.<b>75</b></u>							
ADD	RESS_		234	etrol	eim C	lub Plaza				co_					
	NT and NESSE	d TITLE		eorge	LaH	offman, i	Product	ion Engi	neer	<del></del>		PENT	1	\	
	PANY_	~								/RILLIVED\					
REMARKS											JAN 2 9 1964				
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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  $(P_w)$ . 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  $P_{w}$  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  $P_{t}$ .