NEW MEXICO OIL CONSERVATION COMMISSION

1-OCC, 1-H.L. Kendrick NEW 1-B. Parrish 2-EPNG, El Paso, Farm. 1-TCA, 1-Snoddy (Holland)

Form C-122 Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool	ol BASIN DAKOTA		Fc	Formation DAKOTA				County San Juan				
Initial X Annual Special Date of Test 1/14/64												1/64
Comp	any Beta	Develo	pment	Co.		Lease	Shults F	ederal	Well	l No		
Unit F Sec. 1 Twp. 29 N Rge. 11 W Purchaser EPNG Co.												
Casing 45" Wt. 10.5 I.D. 4.040 Set at 6830 Perf. 6578 To 6788												
	ng 2"											
												12.0
	ucing Thr											
Date	of Comple	etion:	1/7	/64	Packe	r	Sing	gle-Brade Reservo	nhead-G. (G. or G	3.0.	Dual
		_				OBSERV.		_				
Test	ed Through	h (1860)	Desex) ((Choke)					Туре Тар	s		
Flow Data				at.a				Data	Casing Data			
	(Prover) (Ch	oke)	Press.	Diff.	Temp.	Press.	Temp.	1	1	1	Duration of Flow
NO.	(Line) Size	c) (OBODOCE Size		psig	h _w	°F.	psig		psig	°F∙	<u> </u>	Hr.
SI			,				2124		2130			Days
1. 2.		3/	4"	278	 	77	278	77	885		$\frac{1}{1}$	lirs.
$\frac{\tilde{3}}{3}$.												
4. 5.				 	 						+	
<u> </u>				 		<u> </u>			<u> </u>			
FLOW CALCULATIONS Coefficient Pressure Flow Temp. Gravity Compress.										Rate	of Flow	
No.						To a	on Ractor		Factor		Q_MCFPD :	
1	(24-Hour) $\sqrt{n_{W}}$											
1. 2. 3.	12.3650		 		290	.9840)	.9463	1.029	² ——∤	3,	436
3.			 									
4. 5.												
5.			l									
					PR	ESSURE C	alculati	ons				
lae I	iouid Hyd	roca rbo	n Rati	0		cf/bbl.		Speci	lfic Gravi	ty Sepa	arato	r Gas
as Liquid Hydrocarbon Ratio ravity of Liquid Hydrocarbons_						deg.		Specific Gravity Flowing Fluid				
C(1-e					5)			Pc	2142		4568.1	
								P	897	Pw ²	804	.6
No.	$P_{\mathbf{W}}$	P	$c_{\mathbf{t}}^{2}$ F	_c Q	$(F_cQ)^2$	2 (F	(cQ) ² (-e ^{-s})	P _w 2	$P_c^2 - P_w^2$	Ca	al.	P _W P _C
	Pt (psia					(1	e ^{-s})	804.6	3783.5	 	P _W	.418
1. 2.								00440	370363			
3.										<u> </u>		
4. 5.									<u> </u>	 		
	aluto Poro		3.96			MCRPD.	n • 75		<u> </u>			
Absolute Potential: 3,969 MCFPD; n.75 COMPANY Beta Development Co.												
ADDRESS 234 Petr. Club Plaza, Farmington, New Mexico AGENT and TITLE G.L. Hoffman, Production Engineer												
	NT and TII NESSED	.T.E	John PR	A T Emilis	P1008	CTOH EIN	gaine WA			(r. 3		
	PANY									4	14 300	
						REM	ARKS				۔ آدیں	a sales

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 and of flow period at W. H. working pressure (Pw). MCF/da. @ 15.025 psia and 600 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.
- $h_{\mathbf{w}}$ Differential meter pressure, inches water.
- F_g : Gravity correction factor.
- F_t Flowing temperature conjection factor.
- $\mathbf{F}_{\mathbf{DV}}\mathbf{I}$ Supercompressability factor.
- n I Slope of back pressur: 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 $P_{\mathbf{t}}$.