## NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

## MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS Revised 12-1-55

Poo	l <u>Undes</u>	igna t	ed	<u> </u>	cruation	Pictu	re Glif	ſ	County R	io Ar	ribba	
Ini	tialX	~	Annu	21		Special			Date of Test_0=28=57			
Company J.Felix Hickman				Lease Clark								
Unit 0 Sec. 5 Two 241 Rge. 3W Purchaser Pacific Northwest												
Cas	ing 5 g	/t. <u>1</u> 5	.5 I	.D. <u>5"</u>	Se	t at_32	96 Per	rf	6835	To 32'	76	
Tubing 2 3/9wt. 4.7 I.D. 5" Set at 3296 Perf. 3252 To 3276												
Gas Pay: From To L xG TGL Bar.Press.												
Producing Thru: Casing Tubing X Type Well Single Gas Single-Bradenhead-G. G. or G.O. Dual												
Date of Completion: May 26,1957 Packer Reservoir Temp.												
						OBSERV	ED DATA					
Tested Through (Choke) (XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX												
		F	low Da	ata			Tubing	Tubing Data		ata		
	(Prover)	(Cho	ke)	Press.	Diff.	Temp.	Press.	Temp.		Temp.	1	
No.	Size	( <b>Si</b>		psig	h <sub>w</sub>	o <sub>F</sub> .	ps <b>i</b> g	°F.	psig	o <sub>F</sub> .	of Flow Hr.	
SI 1. 2. 3. 4.							930		930		8 days	
1.		3.7	411	276			276		575		3 hours	
3.				<del> </del>	<b></b>							
4.		<u> </u>								<del> </del>		
5.												
					1	ET ON CAT	CIT ATTONS	2				
	Coeffici	ent		Pr				CULATIONS  Temp. Gravity Compress. Rate of I			Rate of Flow	
No.	(0)				Fac		tor Factor		Factor		Q-MCFPD	
	1 T		$\sqrt{h_{w}}$	-		Ft		Fg	F <sub>pv</sub>		@ 15.025 psia	
1. 2. 3. 4.	14.16	05		23	76						5,908	
3.												
4.												
5.												
					PRI	ESSURE C	ALCU ATI	ONS				
Gas I	Liauid Hydro	carbor	Ratio	0		cf/bbl.		Speci	fic Gravi	t.v. Sena	arator Gas	
Gas Liquid Hydrocarbon Ratio Gravity of Liquid Hydrocarbons					deg. Si			Speci	ecific Gravity Separator Gasecific Gravity Flowing Fluid			
Fc			(:	1-e <sup>-s</sup> ∑	·	<del></del>		Pc	<u> </u>	Pදි ව	C4.9	
										A.C.		
	$P_{\mathbf{w}}$	_2	· T _	_	(= -12		2)2		2 2	V		
No.	Pt (psia)	Pt	F	cQ	$(F_cQ)^2$	(F	cQ) <sup>2</sup> -e-s)	$P_{w}^{2}$	PROW	4. 😘	P <sub>v</sub> P <sub>c</sub>	
1.	10 (9514)		-					∂0 <b>.</b> 6	5543		<b>6</b>	
1. 2.									1	C.		
3. j										14		
5.								· _ <del></del> - <u> </u>		-		
Absolute Potential: 6,323 MCFPD; n												
COMPANY Of Production Co.												
ADDRESS 1041 Zuni Drive Farmington, New Mexico / H// LELY AGENT and TITLE N.A. Neely Owner												
	NT and TITLE NESSED	·	14.A.	ACCTA	U(7).	TIGT.			1100	<i>()</i>	7	
	PANY											
						DEM	ARKS					

## 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<sub>W</sub>). MCF/da. @ 15.025 psia and 600 F.
- P<sub>c</sub>= 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.
- Fg Gravity correction factor.
- Ft Flowing temperature correction factor.
- Fpv Supercompressibility factor.
- n I Slope of back pressure curve.

Note: If  $P_{\rm W}$  cannot be taken because of manner of completion or condition of well, then  $P_{\rm W}$  must be calculated by adding the pressure drop due to friction within the flow string to  $P_{\rm t}$ .

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