HOBBS OFFICE OCC

ONE XMMAXX-POINT BACK PRESSURE TEST FOR GAS WELLS Revised 12-1-55

WE A UTZ

Pool	Bline	ory	·	Formation	14 AM E	Binobry	,	_County	Lea		
Init	ialX		Annual		Spec	cial		_Date of '	Test_De	ee. 19-20,	195
Comp	any Neville	<b>G.</b> P	enro se,	Ine.	Lease	Hinton		Wel	l No		<del></del>
Unit	Ps	Sec. 12	Twp	2S Rg	e37 <u>s</u>	Purc	haserP	ermian B	asin l	Pipeline C	٥.
Casi	ng 5½ W	t. 15	.5 I.D. 4	.950" Se	t at 62	215' Pe:	rf. 5606	•	To 50	6421	
	ng 2 3/8 w	·							<u></u>		
Gas Pav: From 5606' To 5642' L 5992' xG 0.700 est 4194' Bar. Press. 13.2											
					Thi	.s test					<del></del>
n rou	ucing Thru: of Complet	. 12	15 57	tu	60.11g	Sin	lype we gle-Brade	nhead-G.	G. or G	.O. Dual	
Date	of Complet	10n: 12	-1)-)/	Packe			Keservo	ir Temp			
			eter run		OBSERV	ED DATA					
Test	ed Through	Prove	Y-XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXX				Type Taps			
	(Prover)		ow Data	s. Diff.	Temp.	Tubing Press.		Casing Da	ata Temp.	Durati	on
No.	(Line) Size	(Orifi Siz	ce)		o <sub>F</sub> .	ps <b>i</b> g	i -	psig	°F.	of Flo	
SI	DIZE	312	e psi	.g h <sub>w</sub>	r •		1623.7		r •	48 hrs	
1. 2. 3.	4.	1.25	511	.0 12.	62	520.2	533.4			24 hrs	
3.											
4. 5.											
					FLOW CAI	CULATION	S				
No.	Coeffici	ent		Pressure Flo		* 1	Gravity Factor	Compress. Factor		Rate of Flow Q-MCFPD	
	(24-Hour) 7		h <sub>w</sub> h		Ft		${ t F}_{ t g}$	F <sub>pv</sub> @ 15.02		@ 15.025 ps	ia
1. 2.	10.24		79.64		0.9981		0.9258	1.068		805	
3. 4. 5.											
5.											
				PR	ESSURE C	CALCULATIO	ONS				
as L	iquid Hydro	carbon	Ratio		cf/bbl.					rator Gas_	<del></del> _
ravi	ty of Liqui	d Hydro 	carbons (1-e <sup>-s</sup>	)	deg.	, _	Speci P <sub>c</sub>	fic Gravit	ty Flow _P <sup>2</sup>	ring Fluid	
						_					
No.	$P_{\mathbf{w}}$	Pt <sup>2</sup>	F <sub>c</sub> Q	$(F_cQ)^2$	( F	$(c_Q)^2$	P <sub>w</sub> 2	$P_c^2 - P_w^2$	Ca	il. Pw	
	Pt (psia)	_			(1	L-e <sup>-3</sup> )			F	P <sub>c</sub>	
1. 2.	<u> </u>	284.	5 7.998	63.97	10.	.06	300.6	2335.8	548.	3 .39	
3. 4.									<del> </del>		
4. 5.							2.00				
Absolute Potential: 898 MCFPD; n 0.90 COMPANY Permian Basin Pipeline Company											
ADDRESS Hobbs, New Mexico AGENT and TITLE R.L. West											
AGEN'	T and TITLE ESSED	GI	enn G.	Veill g	56	w B	necel				
COMP	ANY	Ne	VIIIe G	Penros	e, Inc.	·					
;	Well test	ed thr	ough 4"	meter r	un.	MARKS	•		<b>,</b>	D 3	
,	Specific slope (n)	gravit was u	y was e: sed in t	stimated the calc	at .70 ulation	of pot	ne aver entials	age Blin	eory	Pool	

## 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 (Pw). MCF/da. @ 15.025 psia and 600 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.
- $h_{\mbox{w}}$  Differential meter pressure, inches water.
- Fg Gravity correction factor.
- Ft Flowing temperature correction factor.
- $F_{pv}$  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  $P_{\mathbf{t}}$ .