NEW MEXICO OIL CONSERVATION COMMISSION

HODAS CREETS DOC

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Form C-122

				MULT	I-POINT E	BACK PRES	SURE	T-FOR GRS	WELLS		Revised 12-1-55	
Роо	l Eumo	ont	,]	Formation	<u>Seve</u>	en Rivers	<u></u>	_County	Lea		
InitialAnnu			ualSp			ialDate of		Test10-27-1958				
Com	panyAZTEC	01L	& GAS	COMPA	NY	Lease	State	E-20A	Wel	1 No	<u> </u>	
Unit <u>G</u> Sec. 20 Twp 20S Rge. 36E Purchaser Southern Union Gas Company												
Casing 52" Wt. 14# I.D. 5.012 Set at 4062' Perf. 3954' To 3994'												
Tubing <u>2" EUE</u> Wt. <u>4.7#</u> I.D. <u>1.995</u> Set at <u>3920'</u> Perf. <u>-</u> <u>To</u> <u>-</u>												
											ess. 13.2	
										-		
Producing Thru:CasingTubingXType WellSingleSingle-Bradenhead-G. G. or G.O. DualDate of Completion:Sept. 1958PackerReservoir Temp.100° Est.												
Daux	e or compret	1011:-	Sepia	1990	Facke			Reservo	orr. remb•"			
_							VED DATA					
Test	ted Through	(Prov	<u>ver) (</u>	CANON ()	KX <u>(N</u> KAUXAY)	<	Type Taps					
	(Prover)		Flow Da		Diff.		Tubing	and the second se	Casing D		- Domestic and	
No.			fice)		• DIII•	1	Press.		Press.	Temp.	of Flow	
	Size	S	ize	psig	h _w	°F.	psig	°F.	psig	°₽.	Hr.	
SI							863		864		S.1.	
1. 2. 3.	2 1 21	1/8 3/1		810 718	+	49 57	811		822	 	3 hrs.	
3.	2"	1/4	ويحتجز والمتحد والمحادث	582	+	57	582		612	<u> </u>	31 "	
4.	2"	3/8		356		58	382	f	448	 	24 "	
4.			·····						*			
						FLOW CAL	CULATION	s	,			
	Coeffici No.		ent		Pressure		Temp.	Gravity	Compress. Factor		Rate of Flow	
No.					- .		tor	Factor			Q-MCFPD	
	(24-Hou		$\sim 10^{-1} \text{ m}^{-1} \text{ m}^{-1}$		psia	Ft		Fg	^F pv		@ 15.025 psia	
$\frac{1}{2}$ $\frac{3}{6}$ $\frac{4}{5}$		418		823,2		1,0107		.9427	1.107/.1/0		296.8 197.6	
		<u>3/16 .7851</u> 1/4 1.4030		731.2		1.0029		<u>.9427</u> .9427	1.090 1.072		591.6 846.3	
1.		691			595.2 369.2	1.0019		.9427	1.041		1114,1	
5.					2022							
					PR	ESSURE C	ALCULATI	ONS			,	
Gas I	Liquid Hydro	carbor	n Ratio	2		cf/bbl.		Speci	fic Gravi	tv Sen	arator Gas	
Gravi	ity of Liquid	d Hydr	rocarbo	ons		deg.					wing Fluid	
^F c	Pw Measure	ed	(]	L-e ⁻⁵)				Pc{	377.2	_P ²	769.5	
- T	Pw		,				2		2 0	T		
No.		Pt	F	Q	(F _c Q) ²	(F	$\left \frac{c^{Q}}{c^{e-s}} \right ^{2}$	₽ _w 2	$P_c^2 - P_w^2$		al. P_{W} P_{W} P_{C}	
1.	Pt (psia) 835.2							697.6	71.9			
2.	744.2							553.8	215.7	+	95	
3. 4.	625,2							390,9	378,6		7/	
4.	461.2]				212.7	556.8	+	33	
5.							<u>. </u>	<u></u>			<u>_</u>	
Absolute Potential: 1330 MCFPD; n63 COMPANY AZTEC OIL & GAS COMPANY												
	PANY RESS				& GAS CO 847, Ho		Mevico					
	IT and TITLE		Original	Signed 8	Y			perintend	ent			
WITN	WITNESSED P. R. WAIIS, JR.											
COMF	PANY											

REMARKS

Assumed gas gravity of .675 Well produced 6.99 barrels of oil during run No. 4. No fluid was produced at other rates of flow. 5

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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

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- Q \equiv 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
- P_W. 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.) psiat
- P_f Meter pressure, psia.

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- $h_{W}\text{=}$ Differential meter pressure, inches water.
- F_g : Gravity correction factor.

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 F_t Flowing temperature correction factor.

F _{pv} I Supercompressability factor.	1 . I	с ж		χ [
	* F	. 1 N	ļ ,	$+ \lambda$
n I Slope of back pressure curve.	•	*	.	XE
			*	Υ

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 .