## 

## NEW MEXICO OIL CONSERVATION COMMISSION M 8:39

Form C-122

			1	MULTI	-POINT	BACK PRE	SSURE T	EST FOR GA	AS WELLS		Revised 12-1-5	
Ро	ol Euro	nt		F	ormatio	n Que	en		County_	Lea		
In	Initial		Annua	1		Special_						
Co	mpany Ti	dewater	Oil Co.			_Lease	State	: "J"	We:	ll No.	3	
	it F									_		
	sing 7											
	oing 2											
Gas	Fay: Fro	m_3588	To3	642	L_	3588	xG .686	-GL	2461	Bar.Pr	ess. 13.2	
Pro	ducing Thr	u: Ca	sing_	X	Tu	ubing		Tyne W	ell	G. O.	Dua1	
Dat	e of Compl	etion:_	8-17-	63	Packe	r 3795	Si	ngle-Brad Reserv	enhead-G.	G. or	G.O. Dual	
							ÆD DATA		1 · .		**************************************	
Tes	ted Through	h <u>(Pro</u>	ver) (Ch	oke)	(Meter)	)			Type Tap	ns.		
			Flow Dat	a			Tubin	g Data	10			
No.	(Proter)	) (en	oké) P fice)	ress.	Diff.	Temp.	Press	· Temp.	Press.	Temp.		
	Size	S	ize	psig	h <sub>w</sub>	o <sub>F</sub> .	psig	°F.	psig	⊳ <sub>F</sub> .	of Flow Hr.	
SI				40					637		72	
1. 2. 3.	4	-50	0 3	42 49	6.25		ļ		570		24	
3.	4	.50	0 5	66	2.25		<del> </del>		521 572	<del> </del>	24	
4.	Unable to c	btain	complete	four	point	test. S	lope n	of .750 &	# OF -75	A taken	24 from Multi-	
5.	Point test	dated	7-27-56	and a	pplied	to this	flow da	ti.			11000 00211	
									<del></del>	<u> </u>	<u> </u>	
	Coeffic	ient		Pre	essure	FLOW CAL Flow		NS Gravity	Commo		D-1 0 D3	
No.			<i></i>	-   -		Fac		Factor	Compre   Facto		Rate of Flow Q-MCFPD	
	(24-Ho	ur)	$\sqrt{h_{\mathbf{w}}p_{\mathbf{f}}}$	I	osia	F		Fg	Fpv		@ 15.025 psia	
1.	1.525		47.12	+		.9813		.9352	1.03		68.19	
2.	1.525				.9813				1.03		104.6	
3.	1,525		72 <b>.32</b> 36 <b>.10</b>			.9715		.9352	1.05		52.76	
1. 2. 3. 4. 5.												
<u> </u>			<del></del>	<del></del>								
					PRE	ESSURE CA	ALCU ATI	ONS				
as L	iquid Hydro	ocarbon	Ratio_			cf/bbl.		Speci	fic Gravit	w Sena	rator Gas.686	
iravi	ty of Liqui	id Hydr	ocarbons			deg.		Speci	fic Gravit	y Flow	ing Fluid	
c	.740	)	(1 <b>-</b> e	-s)	.156			Pc	650.2	P <sub>C</sub>	422.3	
								_				
T	PW	<u> </u>					<del></del>			<del></del>		
No.	41	$P_{\mathbf{t}}^2$	F <sub>c</sub> Q		$(F_cQ)^2$	(F.	0)2	P <sub>w</sub> 2	$P_c^2 - P_w^2$	Co	,   ,	
	Pt (psia)	1			("64)	(1-	Q) <sup>2</sup> -e <sup>-s</sup> )	'w~	C_LM	Ca.	$\frac{P_{W}}{P_{C}}$	
<del>]</del> •	583.2	340,1		Ne	gligib	e		340.1	82.7		W - C	
1. 2. 3.	534.2	285.4			**			285.4	137.4			
4.	585.2	342.4	+		**			342.4	80.4			
4. 5.				+	<del></del>	<del></del>				<del> </del>		
	lute Potent	ial•	<del></del>	250		Monne	.75	0	<del></del>	I	L	
COMP	ANY T:	idewate	r Oil Co	mpany		MCFPD;	n					
ADDRI	ESS Be	ox 249,	Hobbs.	N. Me	X.			1 /2/ 2200	27 =			
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REMARKS

## 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 ( $P_{\rm W}$ ). MCF/da. @ 15.025 psia and 60° 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
- Pr Meter pressure, psia.
- hwI Differential meter pressure, inches water.
- Fg Gravity correction factor.
- $F_{t-}$  Flowing temperature correction factor.
- $F_{pv}$  Supercompressability 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  $P_{\rm t}$ .