NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised 12-1-55

Poo	Pool Basin			Formation Dakota					County San Juan				
Ini	tialX		Annu	al		Spec	ial					L	
	pany Com								We				
Uni	t H	_Sec	31 _{Tw}	, 30 N	Rg	ge13W	Purc						
	ing 5-1/2									То	5814		
Tubing 2-3/8 Wt. 4.7 I.D. Set at 5795 Perf. To													
	Gas Pay: From To L xG .680 -GL Bar.Press.												
	Producing Thru: Casing Tubing Type Well Single Gas Single-Bradenhead-G. G. or G.O. Dual												
Dat	e of Comple	etion:	10-2	4-61	Packe	r	Sin	gle-Brade Reserve	enhead-G. oir Temp.	G. or C	.O. Dual		
	Date of Completion: 10-24-61 Packer Reservoir Temp. OBSERVED DATA												
Tes	Tested Through (Choke) (Choke) (Choke) (Type Taps												
			Flow Da	ata			Tubing	Data	Casing	Data			
No.	(Prover) (Line)		oke) fice)		Diff.	Temp.	Press.	Temp.	Press.			tion Flow	
	Size		-	psig	h _w	°F.	psig	°F.	psig	°F.	Hr		
SI							1850		1856				
1. 2.										+			
<u>3.</u>	3/		4	148					426	81	3 hrs.		
4.									1	ļ			
5.						L		<u> </u>	L	<u> </u>			
						FLOW CAL	CULATION	S					
	Coefficient			Pr	essure			mp. Gravity			Rate of Flow		
No.	(2) 11-11-1					Factor					Q-MCFPD		
	(24-HO	24-Hour) $\sqrt{h_W}$		of psia		Ft		Fg	F _{pv}		● 15.025 psia		
1. 2.			 					···					
$\frac{\tilde{3}}{3}$	12.365		 		60	.980	74	•9393	1.0	16	1851		
3. 4. 5.													
<u>5. l</u>		<u> </u>	<u> </u>		PR.	ESSURE CA	ALCUI ATI	ons			 	 -	
as I	Liquid Hydr	ocarbo	n Ratio)		cf/bbl.		Speci	fic Gravi	ity Sepa	rator Gas	.	
	ity of Liqu	•	/-	ns		deg.		Speci	fic Gravi	ty Flow	ing Fluid 44.736		
c			(1	_e -s }_				Pc	1856	_Pc	*****		
		·											
Ţ.,	$P_{\mathbf{w}}$		2 _	_	(= -)2	/-	2)2	- ^	_2 _2				
No.	Pt (psia)	P	$rac{2}{t}$ $rac{F}{c}$, 4	$(F_cQ)^2$	(F)	cQ) ² -e ^{-s})	$P_{\mathbf{w}}^2$	$P_c^2 - P_w^2$	Ca		I	
$\frac{1}{1}$	7 (psia)		-+				/			P	W . C		
2.								11 1177	anga gain				
3.	4,38	 						71.844	3252.8%		1.05	7 U	
1. 2. 3. 4.		 								 			
Absolute Potential: 1932 MCFPD; n .75 1.0439													
COMPANY Compass Exploration, Inc.													
ADDRESS Box 1138, Farmington, New Mexico AGENT and TITLE PAGE 11. E. C. Ellis, Production Supt.													
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REMARKS OIL COMPANY OIL COMPANY													
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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

- Q \equiv Actual rate of flow at end of flow period at W. H. working pressure (P_W). 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
- P_t Flowing wellhead pressure (tubing if flowing through tubing, casing if flowing through casing.) psia
- Pf Meter pressure, psia.
- $h_{\mbox{\scriptsize W}}\mbox{\footnotesize }$ Differential meter pressure, inches water.
- F_g : Gravity correction factor.
- F_t Flowing temperature correction factor.
- F_{DV} 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 $P_{\mathbf{t}}$.