NEW MEXICO OIL CONSERVATION CCMMISSION

Form C-122

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

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rised	ĺ	12	-1	- 55

Poo!	L			Formation	Fruitlar	nd		_County	San Jue	n	
Init	ialX		Annual	Special				_Date of	Test	1-5-59	
	pany_ Paul										
	Company Paul Case Lease Sullivan Well No. 5 Unit A Sec. 30 Twp. 29N Rge. 10W Purchaser										
	ng 5-1/ 2 W										
Tubing Wt. I.D. Set at Perf. To To 1705 c 60 cr 1023											
	Gas Pay: From 1472 To 1550 L 1705 XG .60 -GL 1023 Bar.Fress. Producing Thru: Casing X Tubing Type Well G. G. Dual Single-Bradenhead-G. G. or G.O. Dual										
Proc	lucing Thru:	Casır	ng	rub	ng	Sin	Type We gle-Brade	nhead-G.	G. or C	, O. Dual	
Date	e of Complet	ion: 12.	-23- 58	Packer	1705		_Reservo	ir Temp			
					OBSERVE	ATAC C					
Test	ed Through	ELECTION	(Choke) WARRY				Type Tap	S		
			ow Data			Tubing		Casing D	ata	7	
No.	(Line)		ce)	s. Diff.			Temp.	Press.		of Flow	
,	Size	Size	e psi	g h _w	° _F .	psig	°F.	psilg 642		Hr.	
SI 1. 2.		3/4#	185		520			042		3 hrs.	
2. 3.											
4. 5.											
		<u> </u>					~		<u> </u>		
	Coeffici	ent			LOW CALCI Flow Te	emp.	Gravity	Compre	ss.	mate of Flow	
No.	(24-Hou	r) -		Factor psia F _t		or	Factor	Facto Fpv	r	-MCFPD 4 15.025 psia	
1.	30.577	·	W- 1								
2. 3.	12.3650)		197	1.0078	078 1.0		1.017		2497	
1. 2. 3. 4. 5.											
1				DDF	SSURE CAL	CITEATET	OMS:				
		, ,	5			DOO'MIT					
Grav:	Liquid Hydro Lty of Liqui		carbons_		cf/bbl. deg.		Speci	fic Gravi	ty Flow	Arator Gas Wing Fluid	
⁷ с	1.62	·	(1-e ^{-s}) .072			Pc-	651	_P	427.716	
	P _w										
No.		P_{t}^2	F _c Q	$(F_cQ)^2$	(Fc	⊋) ² e-s)	P_w^2	P - 2	C:	Pw Pc	
131	Pt (psia)			 							
2.	197	38.81	4.05	16.4	1.18		39.98	387.74		1,103	
1: 2. 3. 4. 5.			-								
Absolute Potential: 2714 MCFPD; n = .85 = 1.087											
COMPANY Paul Case ADDRESS c/o Val . heese & Associates, Inc., 120 So. Commercial, Farmington, New Mexico											
AGENT and TITLE.											
	NESSED		/							FA.	
COM	PANY				REMA						

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 ($P_{\rm W}$). 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
- P_{t} 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.
- F_g 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 $P_{\mathbf{t}}$.

OIL CONSERVATION COMMISSION							
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Operator	14.14.14.14						
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State Land Office							
U. S. G. S							

VAL R. REESE & ASSOCIATES, INC.

			Company Paul Jase					
					Lease Sulli	van We	il Ne	5
					Date of Test_	1 - 5 -59		
		P •	o.	Fy.	Date of Test			
Shut in	Pressure	(PSIG): Tub	ing 651	Casing_	642 S I.	Period	12	Days
Size B	low Nipple	3/4" T.C.						
				P.C.		_		
Flow T	Through	Csg.		MACHINE 1	Pressures Fr	om Tog	•	
m:	Ma c		○ (Na	CED!	P.C.	William Caramere		
	.me Minutes	Fr. Pressure			Wellhead . Pressure		т'	
110015	Williams	riessure	13.023 PS	IA WOD F	Pressure	(PSIG)	re"	<u> </u>
	15	35 5			652		5 0	
	30	306			651		5	
	45	272			651		5 U	· ————
1	00	255			 		5 0	
2	00	210			651		51	
3	00	185			651		52	
						••••••		
Start A	At	30 A.M.		End Tes	st At 2:30	7.11.		
D -	1 - 40	1 11						
Kemar	'ks: Ve	ry dry throug	hout test					
							<u>-</u>	
								
								
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					Togtod b	T 1 Der w	t. t m	
					Tested by:	T. H. DON	c•11	·
					Witness:			.gsa