3 MOCC 1 Redfern & Herd

NEW MEXICO OIL CONSERVATION COMMISSION

1 Pioneer Prod. 1 HPHG

1 File

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS												
Pool	Basin			F	ormation	D	akota		_County	San .	Juan	
Init	ialX		Annu	al	 	Sp ec	ial	 	_Date of	Test_N	ovember 3, 1962	
Company Redfern and Herd, Inc. Lease Salmon Well No. 1												
Unit P Sec. 30 Twp. 29N Rge. 11W Purchaser												
					_							
Casing 4 1/2" Wt. 10.5# I.D. Set at 6137 Perf. 5896 To 5984 Tubing 1 1/4" Wt. 2.4# I.D. Set at 5978 Perf. Open ended To												
Gas Pay: From 5896 To 5984 L xG .650 -GL Bar.Press.												
Producing Thru: Casing Tubing X Type Well Single - Cas Single-Bradenhead-G. G. or G.O. Dual												
Date of Completion: 10-15-62 Packer Reservoir Temp.												
						OBSERV	ED DATA					
Tested Through (Choke) Tark Type Taps												
Flow Data					Tubing			Data	Casing Data			
	(Prover)	(Che	oke)		. Diff.	Temp.		Temp.	Press.	Temp.	Duration	
No.	(Line) Size	,	žica) ize	psig	h _w	o _F .	p sig	o _F .	psig	L	I OL PLOW	
SI				1	- W		2037		2026			
1.												
2.		 		<u> </u>	├					 		
3.	<u>2"</u>	2" 3/4"		129		620			728	 	3 hrs	
4.		 		 	 				 	 		
5.		L					<u> </u>	L	<u> </u>	<u></u>	<u> </u>	
FLOW CALCULATIONS												
	Coefficient			Pressure		Flow Temp. Factor		Gravity	Compress.		Rate of Flow	
No.	(2) Nove) - /h		_ / h					ractor P	Factor		@ 15.025 psia	
<u>_</u> _	(24-Hour)		$\sqrt{h_{w}p_{f}}$		psia	Ft		F _g	F _{pv}		6 1)10c) pola	
1. 2.		 										
3.	12.3650			14		.9981		.9608	1.014		1695	
3. 4. 5.												
5.												
					PR.	ESSUBE C	ALCUI ATI	ons				
	iquid Hydro					cf/bbl.					arator Gas	
Gravity of Liquid Hydrocarbons (1-e ⁻⁵)						deg. Sp		Spec	cific Gravity F. 2049 Pc		Lowing Fluid	
"c			(1-e 2			-	r c	<u> </u>	' C	ALX0	
				<u>-</u>								
	$P_{\mathbf{W}}$		2 _		(n.o.)2	(-	. 0,2	n 0	$P_c^2 - P_w^2$, c.	al. Pw	
No.	Pt (psia)	P.	t F	cQ	$(F_cQ)^2$	(1	$\left(\frac{cQ}{ce^{-s}}\right)^2$	$P_{\mathbf{w}}^2$	LCM	1	$ \begin{array}{c c} P_{\mathbf{W}} & P_{\mathbf{C}} \\ P_{\mathbf{C}} & P_{\mathbf{C}} \end{array} $	
1.	TC (pbia)	 				`					W	
2.									26.43		3 3 100	
3. 4.	740							547	3651		1.1498	
5.										1		
Absolute Potential: 1882 MCFPD; n= .75 1.1103												
COMPANY Redfern and Herd. Inc.												
ADDRESS Box 1747, Midland, Texas												
AGENT and TITLE Original signed by T. A. Dugan Consulting Engineer												
WITNESSEDCOMPANY												
COM	ANI					REP	ARKS					

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_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
- Pt Flowing wellhead pressure (tubing if flowing through tubing, casing if flowing through casing.) psia
- Pf Meter pressure, psia.
- $h_{\mathbf{w}}^{-}$ Differential meter pressure, inches water.
- FgI Gravity correction factor.
- Ft 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_{+} .