NEW MEXICO OIL CONSERVATION COMMISSION

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							HOBE	S OFFICE	000	Form C-122	
			MULT	TI-POINT H	BACK PRES	SSURE TES	T FOR GAS	WELLS	• • • 3	Revised 12-1-55	
Poo	1 Jalma			Formatior	1	Yates	1957 FEE	_County	9,50 <u>Ica</u>	•	
				Special							
Com	pany Stanol	Ind 011 a	and Gas (Compeny	Lease	C. Myers	нВи	Wel	1 No]	1	
Unit <u>B</u> Sec. <u>6</u> Twp. <u>24-S</u> Rge. <u>37-E</u> Purchaser <u>Permian Basin Pipeline Company</u>											
Casing 7" Wt. 23.0# I.D. 6.366" Set at 3460 Perf. 2994 To 3230											
Tubing 2-1/2" Wt. 6.5# I.D. 2.4/1" Set at Perf To											
Gas Pay: From 29941 To 32301 L 29941 xG 0.650 _GL 19461 Bar. Press. 13.2											
Producing Thru: Casing Tubing Type Well <u>Single Completion</u> Single-Bradenhead-G. G. or G.O. Dual											
Date of Completion: 4-11-52 Packer Reservoir Temp.											
					OBSERV	ED DATA					
Test	ted Through	(Prover	.) (Choke	e) <u>(Meter</u>)	-			Туре Тар	s <u>pi</u>)e	
			w Data			Tubing Da		Casing Data			
No.	(Prover) (Line)	(Choke) Pres	s. Diff.	Temp.	Press.	Temp.	Press.	Temp.	Duration	
NO .	(Line) Size		e) psi	g h _w	° _F .	psig	° _F .	psig	°₽.	of Flow Mr.	
SI	•							895.4	7	72-1/4 Has. ST	
$\frac{1}{2}$. $\frac{3}{4}$. $\frac{4}{5}$.	<u> </u>	2.25		5 6.0	<u>68</u> 66		<u></u>	766.4	<u> </u>	24	
3.	4	2.25		0 25.9	67			694.7		24-1/4	
4.	<u> </u>	2.25	507	0 44.7	67	<u> </u>		622.4		23=3/4	
	FLOW CALCULATIONS Coefficient Pressure Flow Temp. Gravity Compress. Rate of Flow										
No.				rressure	Flow Temp. Factor		Gravity Factor	Compress. Factor		Rate of Flow Q-MCFPD	
	(24-Hou	r)	^h w ^p f	psia	F	t	Fg	Fpv		@ 15.025 psia	
$\frac{1}{2}$	40.53				0.9924		0.9608	1.047		2253	
3	40.53		35.47		0.994		0.9608	1.047		3465	
4.	40.53		52.5		0.993		0.9608	1.0/.7	11	6176	
5.											
				PR	ESSURE C	ALCUIATI	ons			and the second	
Gas I	Liquid Hydro	carbon R	atio		cf/bbl.		Speci	fic Gravit	ty Sepa	rator Gas	
	ity of Liqui	•		<u></u>	deg.		Speci	fic Gravit	ty Flow	ing Fluid	
^{f'} C	0.865		(1-e ^{-s}	0.125			Pc	95.4	_ ^P c8	25.6	
T	Pw		<u> </u>	1			·····				
No.		P_t^2	F _c Q	$(F_cQ)^2$	(F	$(Q)^2$	P _w 2	$P_c^2 - P_w^2$	Ca	$1. \frac{P_{W}}{P_{E}}$	
	Pt (psia) 779.6	607.8	1.949	3.799	(1	_e ^{-s}) ⊾7 <u>⊾9</u>	608.3	217.3	779.9	W. F	
1. 2.	755.7	571.1	2,997	8.982		123	572.2	253.4	756.		
3.	707.9	501.1	4.067	16.54		068	503.2	322.4	709.1		
4. 5.	635.6	404.0	5.342	28.54		568	407.6	418.0	638.1		
				_					<u> </u>	<u></u>	
Absolute Potential: 12198 MCFPD; n 1.0 (limited) COMPANY Stanolind Oil and Gas Company											
			obbs, Ne				}				
AGEN	NT and TITLE										
	VESSED				.		······				
COMP	PANY				עייות	ADVC					

REMARKS

The resulting slope drawn through the data points is in excess of 1.0. Due to this being a retest, a slope of 1.0 was drawn through the high rate of flow data point to be submitted to the Commission.

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_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.) psia
- P_f Meter pressure, psia.

hw= Differential meter pressure, inches water.

FgI Gravity correction factor.

Ft_ Flowing temperature correction factor.

F_{pv}: Supercompressability factor.

n _ Slope of back pressure curve.

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_+ .