NEW MEATCO OIL CONSECULATION COMPLETED

NeW		New .	MEALCO OIL CO	MSTRUATION		the second of		
Pool Eum	ont Gas		POINT BACK 24	ESSURE TEST		C MILS	For Revised	rm C-122 12-1-55
		Annual					,	1956
Company N	eville G.	Penrose, In	Lease	Alves		Well No	2	
Unit 	Sec.	18 _{Twp} 218	Rge . 371	Purch	aser Perma	in Basin	Pipeline	Co.
Casing 5	Wt.15	.5# I.D. 4.9	50" Set at 3	Per	f. Open he	le To		
Tubing 🙎	w635#	I.D. 2.4	Set at	467 Per	·f	To		
Gas Pay:	From 3490	то 35381	L 34871	xG 0.675		Bar.	Press. 13.	2
Producing	; Thru: Ca	sing	Tubing	I	_Type Well	Single ead-G. G. G		<u>n</u>

OBSERVED DATA

Tested Through (Prover) (March)

		Flow D	ata			Tubing	Data	Casing D	ata	
No.	(Prover) (Lipe) Size	(I Kd) (Orifice)	Press.	Diff.	Temp.	Press.	Temp.	Press.	Temp.	Duration of Flow
	Size	Size	psig	h _w	• _F .	_p sig	°F.	psig	^{>} F•	Hr.
SI						751:0		PACIER		68-3/4 Hr.S.I.
1.	2*077	1/8*	6.9675		79	698 3	70			3-1128.
2.	2*CFP	3/16*	615.0		71	615.6	71		Γ	3-Hrs.
3.	2"CTP	7/32*	558.7		72	558.7	72			Jellrs.
4.	2*C#P	1/4"	501.8	ي خديد المحديد المحدي	71	501.8	71			3-Hrs.
5.	2"CTP	1/4"	458.5		73	458.5	73			Zipelirs,

				FLOW CALCULATI	ONS		
	Coefficient		Pressure	Flow Temp.	Gravity	Compress.	Rate of Flow
No.			•	Factor	Factor	Factor	Q-MCFPD @ 15.025 psia
	. (24-Hour)	$V h_{\rm W} p_{\rm f}$	psia	Ft	^r g_	Fpv	w 15.025 psia
1.	0.3418		711.5	0.9905	0.9427	1:075	244
2.	0.7851		628.8	0.9896	0:9427	1:067	491
3.	1.0834		571.9	0:9587	0:9427	1.060	612
4.	1.4930		515:0	0.9896	0.9427	1.053	71.0
5.	1.4030		671.7	0.9877	0.9427	1.048	64.6

PRESSURE CALCULATIONS

Gas Liquid Hydroca	arbon Ratio Dry	Gas	cf/bbl.
Gravity of Liquid	Hydrocarbons	•	deg.
Fc5.866	(1-e ^{-s})	0.150	

Specific Gravity Separator Gas_____ Specific Gravity Flowing Fluid_____ P_c____764.2____P_c^2___584.0

Type Taps None

No.	Pt (psia)	Pt ²	F _c Q	(F _c Q) ²	$(\mathbf{F_{cQ}})^{2} \cdot (1 - e^{-s})$	P _w 2	$P_c^2 - P_w^2$	Cal. -Pw	• P <u>w</u> • Pc
1.1	711.5	506.2	1.431	2.018	0.3072	506.5	77.5	711.7	.931
2.	628.8	395.4	2,889	8.294	1.244	396.6	187.4	629.8	124
3.	571.9	327.1	3. 590	12.89	1.9335	329.0	255.0	573.6	.751
4.	515.0	265.2	1.165	17.35	2.6125	26776	315.2	37.5	.677
5.	171.7	222.5	3.789	14.36	2,1540	224.7	359.3	474.0	.620
Absolute Potential: 913 MCFPD; n 0.71 COMPANY Neville G. Penrose, Inc.									
ADDR	ESS BOK	988	Eunice,	New Mext					
AGEN		, Cha	rles]	5meg	Gas Test	ter Repre	sentive		
WITN	iessed /S	H.S.	Barret	t	5	·			
COMF	PANY Pe	rmain H	asin Pi	pe Line C	0.				
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_w). MCF/da. @ 15.025 psia and 60° F.
- P_c : 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater.
- 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.

 h_w Differential meter pressure, inches water.

Fg= Gravity correction factor.

 F_t Flowing temperature correction factor.

F_{DV} 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_t .