MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool	Undesign	ated	1	Formation	Dak	rota		_County	San .	Juan
Init	tial I	Anr	ual		Spec	ial	· · · · · · · · · · · · · · · · · · ·	_Date of	Test	Oct. 15, 1959
Comp	oany Angel F	eak Oil Co	mpany		Lease	Angel Pe	ak	Wel	1 No	21
Unit	. <u>P</u>	Practice / 12 T		8N Rg	e. <u>11W</u>	Purc	haser	Southern U	mion G	as Company
Casi	ing 53m W	t. <u>15.5#</u>	I.D	1.950 Se	t at 6521	1•95Pe	rf62	221	To6	<u>463</u>
Tubi	ng 2-3/8" W	t. 4.7#	I.D	1 .995 Se	t at62	268 Pe	rf. 621	18	To6	268
Gas	Pay: From_	6221 To	6463	L_	х	:G			Bar.Pre	ess
Prod	lucing Thru:	Casing		Tu	bing_	X	Type We	ll Sing	le - G	as
										G.O. Dual
	-					ED DATA		_		
Test	ed Through	XOGRACOSTAX	(Choke)	(Menenc)				Туре Тар	s	
		Flow	Data			Tubing	Data	Casing D	ata	
No.	(Prover)	(Choke) (Orifice)	Press	Diff.	Temp.					Duration of Flow
	Size	Size	psig	h _w	°F.	psig	°F.	psig	[⊃] F•	Hr.
SI						2090		2094		10 days
1. 2.	 	3/1:*	398		74		 	1115	 	3 hours
2 •			<u> </u>				 			
4. 5.										
5. !	·	L					L	····	L	
					FLOW CAL	CULATION	S			
	Coeffici	ent	F	ressure						Rate of Flow
No.	(24-Hou	$r)$ \sqrt{h}	-Da	nsia	rac F	tor	ractor F_	F	r	Q-MCFPD @ 15.025 psia
-	12,365	· V	WFI	h10	0.9868		0 . 9393	1.04		1,906
1. 2. 3. 4.				444			<u> </u>	4,004	-	Дууу
3.										
5.							····			
						······			 .	
				PR	ESSURE C	ALCUIATI	ons			
as L	iquid Hydro	carbon Rat	io		cf/bbl.		Speci	fic Gravi	ty Sepa	rator Gas
	ty of Liqui	d Hydrocar	bons_		deg.		Speci	fic Gravi	ty Flow	ving Fluid
'c			(1-e ⁻⁵)					2106 1127	Pc 1	
								<u> </u>		re (
No.	$P_{\mathbf{w}}$	Pt2	E (1	$(F_cQ)^2$	(F	0)2	2 מ	$P_c^2 - P_w^2$) Ca	l. Pw
NO	Pt (psia)	^r t	F _c Q	(rcw)	(1	_{cQ)} ² -e ^{-s})	P _w 2	rc-rw		Pw Pc
1.							127	216		W
1. 2. 3. 4.										
4.1									+	-
5.										
Abso	lute Potent	ial:_ 8,3	40		MCFPD;	n	0.75			
		L PEAK OIL								
	ESS P.O. T and TITLE					~ ~~~~				
WI:IN	ESSED									
COMP	ANY				DEW	ARKS			- 10	
					rem.	vint?			FFF	
								/ K	LULIV	10

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 T 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
- Pw 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.
- hw Differential meter pressure, inches water.
- Fg 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 $P_{\mathbf{t}}$.

OIL CONSERVATED DIS	TRICT OFFIC	E
No. Copies Face	ind 3_	
in the second se	SUTION_	
All the second s	រូប។ សុខាស់មេពី <u>(ប៉ុ</u>	•
and the second second second second	e e e e e e e e e e e e e e e e e e e	
U. M. SERVE	,	
og State	and the second	
	and the second s	
ပြုချေပါ <u>း မွား</u>	CAPT - Magnitude & Ottomore Lawrence	_
Toursapiter		
File	1	<u></u>
F 13.00		