1 Western Development Co. NEW MEXICO OIL CONSERVATION COMMISSION
1 Se. Union
1 File

Form C-122

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

	,	12-1-55
RATT 9	sed.	ユスーエーフフ

Pool	Basin			Fo	rmation	D	akota		County San Juan				
Init	ial		Annua	al		Special			_Date of	Test_	12 Se	ptember 1962	
Comp	mpany Western Development Co.								We]	Ll No.	1-2	5	
Unit		Sec2	2 _Twp	o. <u>30</u>	Rg	e. <u>11</u> W	Purc	haser		- <u></u>		<u></u>	
Casi	Casing 4 1/2° Wt. 10.5# I.D.		Set at 6948 P			rf. 67	f. 6705		6741				
Tubing 1 1/4" Wt. 2.44 I.D. Set at 6731 Perf. Open End To													
Gas Pay: From 6705 To 6741 L xG .65 -GL Bar. Press.													
Producing Thru: Casing Tubing X Type Well Single - Ges Single-Bradenhead-G. G. or G.O. Dual													
Date of Completion: 8-27-62 Packer Reservoir Temp.													
	OBSERVED DATA												
Tested Through (Choke) Total Type Taps													
		F	low Da	ata			Tubing		Casing	Data		Duration	
No.	(Prover) (Line)		-		1		l .	Temp.		1		of Flow	
70-	Size	Si	ze	psig	h _w	°F.	psig 2069	°F.		· ·		Hr.	
SI 1.							2009		2073	1_	1,		
2 . 3.		3/4		212		550			1387	+	3 hars		
4.													
5.								1,					
						RIOW CAT	CULATION	is					
	Coeffic	ient		Pr		Flow	Temp.	Gravity Comp		ess. Rate of Flow			
No.						Factor		Factor	Fact	Factor		Q-MCFPD @ 15.025 psia	
	(24-Ho	(24-Hour) √		hwp _f psia		Ft		Fg	F _{pv} e		8 17	psia	
1. 2.													
3.	12,365			224		1.0048		.9608	1.024		2738		
4. 5.													
PRESSURE CALCULATIONS Gas Liquid Hydrocarbon Ratiocf/bbl. Specific Gravity Separator Gas Gravity of Liquid Hydrocarbonsdeg. Specific Gravity Flowing Fluid Fc(1-e^{-8})P_c													
No.	P _w Pt (psia)	Pí	F	, Q	(F _c Q) ²	2 (1	(cQ) ² L-e ^{-s})	P _w 2	P _c -P _w		Cal.	P _w P _c	
1. 2.								1000 001	0000 0			1.8189	
3. 4. 5.	1399	 					+	1957,201	2390,0	4		140107	
5.													
	olute Poten				C		; n <u>= .75</u>	1,5662	<u></u>				
ADDI	RESS 7	9 Blac	mfiel	d Road.	Company Farmin	gtonk Ne	w Mexico)					
AGE	VT and TITL	E Ongi	ral sign	ned by	T. A. Du	gan Cor	sulting	Engineer			TIT	A	
	NESSEDPANY									10	1.11	+1/1	
OOFII	AN4					RE	MARKS			111	ULIT		
											P17		
	OIL COM.												

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 600 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
- Pf Meter pressure, psia.
- $h_{\mbox{\scriptsize W}}\mbox{\footnotesize I}$ Differential meter pressure, inches water.
- Fg Gravity correction factor.
- F_t 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 $P_{\mathbf{t}}$.