NEW MEXICO OIL CONSERVATION COMMISSION

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Fo	ľ	C-122
Revised	12	2-1-55

Pool	l	Und	enign	ated		Formation	Ch	acra		County_	Rio A	Arrib	<u>a</u>		
Initial X Annual Special Date of Test 3-23-63															
										che We					
Unit D Sec. 34 Twp. 26 N. Rge. 5 W. Purchaser El Paso Natural Gas Co.															
Casing Wt.9.5 I.D. 42 Set at 3905 Perf. 3800 To 3822															
						_	_								
Tubing Wt. 2.40 I.D. 12 Set at 3805 Perf. 3772 To 3775 Gas Pay: From 3800 To 3822 L xG 0.676 -GL Bar. Press. 12.0															
Gas ray: rrom jour 10 jour 1 xu voic = GL par. press Single-Gas															
Producing Thru: Casing Tubing X Type Well Single-Gas Single-Bradenhead-G. G. or G.O. Dual															
Date of Completion: 3-19-63 Packer Reservoir Temp.															
							OBSER	VED DATA	•						
Test	ted Th	rough	(Jee	8 *) ((Choke) (HOUSE)	XX			Type Tap	os				
	/p-			low Da		s. Diff.	Temp.		g Data Temp.	Casing Press.		Duration			
No.	I)	ine)	(Orif	(ice)			o _F .		o _F .	i		1	of Flow		
SI		Size	Si	ize	psi	g h _w	· ·	ps18		ps1g 885		 	Hr.		
1.			3/	4W	66	5		56				13	hre.		
2 . 3.		~ 	<u> </u>		 			 			+	 			
4.															
5.				······································	ļ <u>.</u>			<u> </u>							
FLOW CALCULATIONS Coefficient Pressure Flow Temp. Gravity Compress. Rate of Flow															
No.		effici	ent			Pressure	Flow Fa	Temp.	Gravity Factor	Compression Factor			of Flow CFPD		
	(24-Hour) $\sqrt{h_{W}p_{f}}$		P _f			Ft	t Fg		Fpv		● 15.025 psia				
1.	1	2.365				78		029	0.942	1.	1.00		890		
2 . 3.															
4.															
5.				L								L	. <u></u> .		
						PR	ESSURE	CALCUIAI	CIONS						
Gas Liquid Hydrocarbon Ratio cf/bbl. Specific Gravity Separator Gas Specific Gravity Flowing Fluid P. P. P. P. P. Control of Control															
					ons 1-e ^{-s})	deg	5•	P _c _	897 Grav.	P2 PC	30£.	6		
P_{c} P_{c} P_{c}															
	$P_{\mathbf{w}}$		_:	2 -		/ >2		7.012		_2 _2		10.7	n		
No.	Ter ((psia)	Pt	F	cQ	$(F_cQ)^2$		F _c Q) ² 1-e ^{-s})	P _w 2	$P_c^2 - P_w^2$		al. P _w	P _W P _C		
1.		291							84.68	719.	92		1.1176		
2 . 3.					_							-			
4.															
5.									75						
Absolute Potential: 968 MCFPD; n 0.75 COMPANY Marathon Oil Company															
ADDRESS Box 120. Casper. Wyoming															
AGENT and TITLE W. C. Wunnicke, Consulting Engineer Mutters															
	PANY_									- lati		ZZ			
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										AP	R8 19	163 :: • • • • • •			
										A 5.20 8"	00%. 00%.	3			

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 (Pw). MCF/da. @ 15.025 psia and 60° F.
- P_c = 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater. psia
- PwI 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.
- F_{g} Gravity correction factor.
- F_t Flowing temperature correction factor.
- Fnv 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_{+} .