MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised	12-1-55

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Ini	tial		Annu			Spec	cial	£	Date o	f Test_8	-3/8-9-57	
Com	pany Humble	011 &	Refini	ng Com	ienA	Lease Ne	w Mexico	State	sw	ell No	23 Casing	
Unit P Sec. 23 Two 22-S Rge. 37-E Purchaser El Paso Natural Gas Company												
	ing 5-1/2											
	ing_2											
	Gas Pay: From <u>5428</u> To <u>5545</u> L <u>5428</u> xG <u>0.722</u> -GL <u>3919</u> Bar.Press. <u>13.2</u> Producing Thru: Casing x Tubing Type Well <u>G. G. Dual</u>											
Date of Completion: 4-30-55 Packer 5976 Reservoir Temp.												
	•	47000/160							1011	·		
OBSERVED DATA Tested Through (Personne) (Meter) (Meter) Type Taps Flange												
			low Da		(Medel)		1 m 4	- 0-1-			Tarrise	
$\overline{}$	3000000c)				Diff.	Temp.	Press	g Data Temm	Casing	Data Temp.	Duration	
No.	(Line) Size		ice)				psig	1		o _F .	l of Flow I	
SI	0120	1 51	20	horg	W ¹¹ W	r •	harg	1 .		F•	 	
1.	4	1,500		532	0.80	83		 	1775 1513		72 SI	
2 . 3 .	4	1.500			8,30	76			1456	 		
<u> 3. </u>		1.500			4.00	74			1/.00			
4. 5. l	4	1.500		567	6.56	73			1343			
						L		_ 				
						FLOW CAL						
No	Coefficient				essure	Flow	Temp.	Gravity Compress. Rate of Fl Factor Factor Q-MCFPD				
No.	0. (2/1-Hour) -		7/h.n	ne neia		ractor		Facto	r Fact	cor	- ,	
1.	(24-Hour) \sqrt{h}		V "WP								@ 15.025 psia	
2.			29.58 63.17			0.9786 0.9850		9325	1.05		1745	
3。	- 		88.16			0.9868		9325	1.05		2216	
4.	13.99		10.76			0.9877		9325	1.06		2 570 2 890	
5.	· · · · · · · · · · · · · · · · · · ·											
PRESSURE CALCULATIONS Gas Liquid Hydrocarbon Ratio 75,722 cf/bbl. Specific Gravity Separator Gaso 690 Specific Gravity Flowing Fluido 722 c 1.712 (1-e ⁻⁵) 0.236 Pc 1788.2 Pc 3197.7 (psia)												
No.	P _w Pt (psia) 526.2	P _t ²	F _c		(F _c Q) ²	(1.	Q) ² -e ^{-s})	P _w 2	$P_c^2 - P_w^2$	P.	w Pc	
2.	69.2 2	158.5	3.79		36	2.11 3.39	2	331.4	1045.8	1526.9	-853 -822	
<u>3. ju</u>	13.2	997.1	مبي	19	36	4.57	a	001.7	1196.0	1414.8	.791	
4. 13	156.2 1	839.3	4.95	- 4.	.50	5.78	1	845.1	1352.6	1358.4	-760	
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JRW/11			ET L	ASO ABI	arai us	REMA						

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 I Actual rate of flow at end of flow period at W. H. working pressure (P_W) . MCF/da. @ 15.025 psia and 60° F.
- PcI 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater. psia
- PwT Static wellhead working pressure as determined at the end of flow period. (Casing if flowing thru tubing, tubing if flowing thru casing.) psia
- P_t Flowing wellhead pressure (tubing if flowing through tubing, sasing if flowing through casing.) psia
- Pf Meter pressure, psia.
- hw Differential meter pressure, inches water.
- F_g : Gravity correction factor.
- F_t Flowing temperature correction factor.
- F_{DV} Supercompressability factor.
- n I 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 .

HUMBLE OIL AND REFINING COMPANY MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Well New Mexico State S 23
Location P 23-22S-57E
County Lea
Date 10-3-57

