NEW MEXICO OIL CONSERVATION COMMISSION

MAIN OFFICE OCC

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Form C-122 Revised 12-1-55

Pool Jalma	ıt		1958_JU	nYates	7 - Rive	ers	County	Lea	<u> 24</u>	
Initial		Annual_		Spe	cial 🔭 🕱		Date of	Test 6-	30 - 7-4-58	
Company Del	port 01	Corporat	ion	_Lease	Christmas	5 B	Well No. 1			
Unit J Sec. 21 Twp. 22 Rge. 36 Purchaser F1 Paso Natural Gas Company										
Casing 53 " Wt. 15.5 I.D. Set at 3110 Perf. To_										
Tubing 2 3/8 Wt. 4.7 I.D. Set at 3267 Perf. To										
Gas Pay: From 3190 To 3473 L 3267 xG 667 -GL 2179 Bar.Press. 13.2										
Producing Thru: Casing Tubing Tubing Type Well Single Single-Bradenhead-G. G. or G.O. Dual										
Date of Completion: Rework 6/58 Packer None Single-Bradenhead-G. G. or G.O. Dual Reservoir Temp.										
OBSERVED DATA										
Tested Through (Prover) (Choke) (Meter) Type Taps Flance										
_										
Flow Data (Prover) (Choke) Pres						Data	Casing D	ata		
No. (Prove) (Ori	fice)		1	Press.		Press.	i	of Flow	
Size	S	ize p	sig h _w	o _F .	psig	°F.	psig	[⊃] F•	Hr. 72	
	1.00	W	0 1.00	82	632	 	611		24	
1. 4 2. 4	1.00	10 52	6 9.00	78	630	 	640	 -	24	
3. 4	1.00	55	3 15.21		625		637	<u> </u>	24	
	1.00		9 43.56		608	 	624		24	
4. L		~ /	2 43.00	1 14	1 550	 	024	 		
FLOW CALCULATIONS										
Coefficient Pr			Pressure				vity Compress. Rate of Flow Ctor Factor Q-MCFPD 6 15.025 psia			
No.				Fact		tor Factor		r	Q-MCFPD	
(24-	(24-Hour)		psia	F	't	F_{σ}	Fnv		@ 15.025 psia	
7 6 7 25	1. 6.135 47.1 2. 6.135 69.6		.9795		.9485		1.053		284	
1. 6.135 2. 6.135 3. 6.135	6.135		.98		.9485		1.053		419	
3 6 135	6.135		.9840		.9485		1.056		561	
4. 6.135	6 1 32		- AZ		.9868 .9485		1.054		931	
4. 6.135		153.65	 	• 30:00		• 7405	1.00/2	*		
PRESSURE CALCULATIONS Gas Liquid Hydrocarbon Ratio Dry cf/bbl. Specific Gravity Separator Gas Specific Gravity Flowing Fluid										
C		(1-0			-	- c——		_, c		
P _w	P	2 80	(B 0)	2 /-	2012	D 0	$P_c^2-P_w^2$	0-	1 D	
Pt (psia	a) P1	F _c Q	(F _c Q) ²	(1	$(c_e^Q)^2$	P_{w}^{2}	P _C -P _W	Ca P	Pw Pc	
	416.	3			, i	28.0	3.9	 		
1. 645.2 2. 643.2 3. 638.2 4. 621.2	413.	P	essured			126.7	3.9 5.2			
3. 63 8.2	407.					22.8	9.1			
4. 621.2	385.5	7			7	100.0	25.9	1		
5.										
Absolute Potential: 3800 MCFPD; n .499 COMPANY Dalport Oil Corporation										
ADDRESS 930 Fidelity Union Life Bldg.; Dallas, Texas										
										
AGENT and TI	. I D	Tumer	myperi	1 porge					 _	
COMPANY			as Company	, F7 Pas	o. Torer					
OUTH ANT	EL LEGO	THE PULL OF	eo vompan		ARKS					

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 (Pw). MCF/da. @ 15.025 psia and 600 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.
- 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 of adding the pressure drop due to friction within the flow string to P_{γ} .