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State of New Mexico
Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION

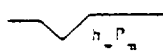
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

Form C-122
Revised 4-1-91

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator Louis Dryfuss				Lease or Unit Name Firewood 10			
Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 8-3-99		Well No. 1	
Completion Date 7-28-99		Total Depth 10444		Plug Back TD		Elevation	
Casing Size 7"		WL 26#	d 6.276	Set At 10444	Performances: From: 8720 To: 8866		County Eddy
Tubing Size 2 7/8		WL 6.5	d 2.441	Set At	Performances: From: To:		Pool Fillmore Camp Cisco
Type Well - Single - Brackhead - G.G. - G.G. Multiple Single				Packer Set At 8606		Formation Cisco	
Producing thru TBG		Reservoir Temp. °F 140.4		Mean Annual Temp. °F 60°		Baro. Press. - P. 13.2	
L 8606		II 8606	G _g .765	% CO ₂ 1.075	% N ₂ 1.872	% H ₂ S 0	Prover 0
							Mean Flow 4.026
							Test F/G

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover Line Size	X	Orifice Size	Press. psig.	Diff. h _w	Temp. °F	Press. psig.	Temp. °F	Press. psig.		Temp. °F
51							2085	N/A	PKR		
1.	4.026 X 1.000			90	1	82°	2076				60 min
2.	4.026 X 1.000			90	8	87°	2044				60 min
3.	4.026 X 1.000			90	40	78°	1930				60 min
4.	4.026 X 1.000			90	71	75°	1640				60 min
5.											

RATE OF FLOW CALCULATIONS							
NO.	COEFFICIENT (24 HOUR)		Pressure P _w	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{sp}	Rate of Flow Q, Mcf
1.	4.753	10.1	103.2	.9795	1.143	1.068	57
2.	4.753	28.7	103.2	.9750	1.143	1.065	161
3.	4.753	64.2	103.2	.9831	1.143	1.069	366
4.	4.753	85.5	103.2	.9859	1.143	1.069	489
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	N/A	Moist
1.	.81	542	1.33	.876	A.P. L Gravity of Liquid Hydrocarbons	N/A	Des
2.	.81	547	1.35	.882	Specific Gravity Separator Gas	.765	XXXXXXXXXX
3.	.80	538	1.32	.875	Specific Gravity Flowing Fluid	N/A	XXXXXX
4.	.80	535	1.32	.875	Critical Pressure	669	PSIA
5.					Critical Temperature	405	R

P _r 2151.6		P _w 4629.4		
NO.	P _r ²	P _w	P _w ²	P _r ² - P _w ²
1.		2161.1	4670.4	-41
2.		2139.2	4576.2	53.2
3.		2093.6	4383.2	246.2
4.		1875.6	3517.9	1111.5
5.				

$$1) \frac{P_r^2}{P_r^2 - P_w^2} = 3.80 \quad (2) \left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 2.35$$

$$AOF = Q \left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 1149$$

Absolute Open Flow	1149	Mcf @ 15.025	Angle of Slope θ	57.3	Slope, n	6406
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Remarks: *Calculated from known bottom hole pressures
*No liquid made during test

Approved By Division	Conducted By: Pro Well Testing	Calculated By: M. B.	Checked By: B. M.
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