

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 8-8-88	
Company FRED POOL DRILLING ✓		Connection AIR	
Pool DND WOLF CAMP		Formation WOLF CAMP	
Completion Date 8-12-88		Total Depth 6227'	
Casing Size 2-3/8		Well At 5217	
Well No. 2		Farm or Lease Name EASTLAND	
Unit 13		Twp. 26	
County CHAVES		State NM	
Producing Thru TUBING		Reservoir Temp. °F 8	
Mean Annual Temp. °F 8		Baro. Press. - P _a	
L 7		H 7	
G _g 7		% CO ₂	
% N ₂		% H ₂ S	
Prover 2"		Meter Run	
Taps			

FLOW DATA							TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
SI							1103		PACKER		
1.	2	x	1/8	1070		70	1070		"		1 HR.
2.	2	x	7/32	1025		70	1025		"		"
3.	2	x	3/8	791		65	791		"		"
4.	2	x	1/2	575		65	575		"		"
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{sp}	Rate of Flow Q, Mcfd
1.	.2648		1083.2	.9905	1.200	1.1304	385
2.	.8393		1038.2	.9905	1.200	1.1244	1165
3.	2.378		804.2	.9952	1.200	1.0968	2505
4.	4.279		589.2	.9952	1.200	1.0675	3214
5.							

NO.	P ₁	Temp. °R	T ₁	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.					Specific Gravity Separator Gas _____ XXXXXXXXXX
3.					Specific Gravity Flowing Fluid _____ XXXXX
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature _____ R _____ R

P_c 1287.2 P_c² 1656.9

NO.	P ₁ ²	P _w	P _w ²	P _c ² - P _w ²
1		1272.2	1618.5	38.44
2		1216.2	1479.1	177.74
3		1077.2	1160.4	496.52
4		981.2	962.75	694.13
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.39$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.89$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 6065$

Absolute Open Flow 6065 Mcfd @ 15.025 Angle of Slope 54° Slope, n .73

Remarks: ALL BOTTOMHOLE PRESSURE TESTS DONE WITH AMERADA TYPE GAUGE

Approved By Division _____ Conducted By: _____ Calculated By: _____ Checked By: _____

Post ID-2
9-2-88
comp & RH