

NE MEXICO OIL CONSERVATION COM. PN
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

File

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 10/16/83	
Company Pennzoil Company		Connection Air	
Pool Quail Ridge		Formation Morrow	
Completion Date	Total Depth 13680	Plug Back TD 13637'	Elevation
Csg. Size 5 1/2"		Set At 13680'	Perforations: From 13505' To 13521'
Trq. Size 2 3/8"		Set At 12999'	Perforations: From To
Type Well - Single - Prodenhead - G.G. or G.O. Multiple Single		Packer Set At 12999'	County Lea
Producing Thru Tubing	Reservoir Temp. °F 204 @ 12999'	Mean Annual Temp. °F 60°	Boro. Press. - P _a 13.2
L 12999'	H 12999'	G _g .6846	% CO ₂ .656
		% N ₂ .526	% H ₂ S
		Prover	Meter Run 2,900
FLOW DATA		TUBING DATA	CASING DATA
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	Press. p.s.i.g.	Temp. °F
			Duration of Flow
1.	3	X	1.000
2.	3	X	1.000
3.	3	X	1.000
4.	3	X	1.000
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. Compres. Factor, F _{spv}
			Rate of Flow Q, Mcfd
1.	4.801	45.31	513.2
2.	4.801	54.95	503.2
3.	4.801	74.40	503.2
4.	4.801	70.23	493.2
5.			
NO.	P _r	Temp. °R	T _r
			Z
1.	.77	548	1.42
2.	.75	548	1.42
3.	.75	548	1.42
4.	.74	540	1.40
5.			
Gas Liquid Hydrocarbon Ratio 6.741 Mcf/bbl.			
A.P.I. Gravity of Liquid Hydrocarbons 56 @ 60 Deg.			
Specific Gravity Separator Gas .6846			
Specific Gravity Flowing Fluid .669			
Critical Pressure 669 P.S.I.A.			
Critical Temperature 385 R			
$P_c = 2274.2$ $P_w^2 = 5172.0$ (1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.697$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.642$			
NO.	P _r	P _w	P _w ²
			P _c ² - P _w ²
1.		1803.9	3254.0
2.		1549.2	2400.1
3.		1140.2	1300.1
4.		676.7	457.9
5.			
$ADP = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 442$			
Absolute Open Flow 442		Mcf @ 15.025	Angle of Slope 63.5
			Slope, n .500
Remarks: PRODUCED 9 BBLS. OF CONDENSATE DURING THE TEST			
Approved by Commission:		Conducted By: JARREL WELL TESTING, INC.	Calculated By: Rick Pagan
			Checked By: Rick Pagan