

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

RECEIVED
MAR 18 1985
OIL CON. DIV.
DIST. 3

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 9-25-84	
Company Southland Royalty Company		Connection El Paso Natural Gas Company	
Pool Albino		Formation Pictured Cliffs	
Completion Date 9-15-84		Total Depth 4130'	Plug Back TD 4084'
		Elevation 7017' GL	Form or Lease Name Reese Mesa
Csq. Size 4.500	Wt. 10.5#	d 4.052	Set At 4129'
Perforations: From To		Well No. 10	
Tbg. Size 2.375	Wt. 4.7#	d 1.995	Set At 3759'
Perforations: From 3764' To 4030'		Unit Sec. Twp. Rye. J 10 32N 8W	
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Single		Packer Set At ---	County San Juan
Producing Thru Tubing	Reservoir Temp. °F P	Mean Annual Temp. °F	Baro. Press. - P _a 12.2
State New Mexico			
L	H	G _g .700	% CO ₂ % N ₂ % H ₂ S
Prover		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. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	
SI							1436		1437	
1.	2"	X	3/4"				735		1313	1 Hr
2.							691		1260	2 Hrs
3.							665		1237	3 Hrs
4.										
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 _{pv}	Rate of Flow Q, Mcfd
1	12.365		677.2	1.0000	.9258	1.0000	7752
2.							
3.							
4.							
5.							

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

P_c 1449.2 P_c² 2100180.6

NO.	P ₁ ²	P _w	P _w ²	P _c ² - P _w ²
1		1249.2	1560500.6	539680.0
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 3.8915$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3.1740$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 24605$

Absolute Open Flow	24605	Mcf/d @ 15.025	Angle of Slope @	Slope, n .85
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Remarks: Heavy mist throughout test

Approved By Division	Conducted By: Mike Brandon	Calculated By: James Wm. Smith	Checked By: C. Terry Hobbs
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