

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

RECEIVED

Test Type 4pt. ☒ Initial ☐ Annual ☐ Special		Test Date 4-24-81	
Company Southland Royalty Co. ✓		Connection To Air	
Pool wildcat Shallow Undesignated		Formation Strawn	
Completion Date 4/17/81		Total Depth 11198 11194	
Plug Back TD 10355		Elevation 3328.6	
Farm or Lease Name Citgo COM # Fed.		Well No. 1	
Csg. Size 4.5		Wt. 11.60	
d 3.958		Set At 11194 10355	
Perforations: From 10135 To 10154		Well No. 1	
Thq. Size 2 3/8		Wt. 4.7	
d 1.995		Set At 10029	
Perforations: From Open To Ended		Unit B	
Type well - Single - Blindhead - G.G. or G.O. Multiple Single		Packer Set At 10029	
County Eddy		State New Mexico	
Producing Thru Tbg.		Reservoir Temp. °F 174 @ 10029	
Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2	
L 10029		H 10029	
G _g .679		% CO ₂ .35	
% N ₂ 1.08		% H ₂ S .	
Prover 2		Meter Run Flg.	
FLOW DATA			
TUBING DATA			
CASING DATA			
Duration of Flow			
NO.	Prover Line Size	X	Orifice Size
1.	2 X 1.250		240
2.	2 X 1.250		320
3.	2 X 1.250		300
4.	2 X 1.250		330
5.			
RATE OF FLOW CALCULATIONS			
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m
1.	8.120	31.82	253.2
2.	8.120	51.63	333.2
3.	8.120	70.79	313.2
4.	8.120	104.80	343.2
5.			
NO.	R _g	Temp. °R	T _g
1.	.38	550	1.44
2.	.50	542	1.42
3.	.47	534	1.40
4.	.51	534	1.40
5.			
Gas Liquid Hydrocarbon Ratio 12.16 Mcf/bbl.			
A.P.I. Gravity of Liquid Hydrocarbons 55 @ 60° Deg.			
Specific Gravity Separator Gas XXXXXX			
Specific Gravity Flowing Fluid XXXXX G-MIX 909			
Critical Pressure 668 P.S.I.A.			
Critical Temperature 382 R			
P _c 3257.2 P _c ² 10,609.4			
NO.	P _w	P _w ²	P _c ² - P _w ²
1.	3057.6	9348.9	1260.5
2.	2909.4	8464.6	2144.8
3.	2761.1	7623.7	2985.7
4.	2314.5	5356.9	5252.5
5.			
(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.019$			
(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.7948$			
AOF = 0 $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.892$			
Absolute Open Flow 1,892 Mcf @ 15.025			
Angle of Slope 50.25			
Slope, n .832			
Remarks: Made 8 bbls. of fluid during test. No H ₂ O			
Approved by Division			
Conducted by: EL PASO EXPLORATION CO. McMurray, Townley, Rea			
Calculated by: Rea			
Checked by: Ray Nokes			