

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENTP. O. BOX 2088
SANTA FE, NEW MEXICO 87501Form C-122
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☐ Initial ☐ Annual ☒ Special				Test Date 6-15-82		***RE-TEST***	
Company Southland Royalty Company				Connection Southern Union Gathering			
Pool Harris Mesa				Formation Chacara		Unit	
Completion Date 4-18-81		Total Depth 5030'		Plug Back TD 4985'		Elevation 6323' GR	
Farm or Lease Name Hanks							
Csg. Size 5.500	Wt. 14#	d 5.012	Set At 5029'	Perforations: From To		Well No. 25	
Tubg. Size 1.900	Wt. 2.76#	d 1.610	Set At 3460'	Perforations: From 3440' To 3460'		Unit Sec. Twp. Rge. B 6 27N 9W	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple G. G. - Multiple				Packer Set At 3594'		County San Juan	
Producing Thru Tubing		Reservoir Temp. °F #		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							1048		1048	
1.	2"	X	3/4"				102		321	1 hr
2.							70		231	2 hrs
3.							59		199	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		71.2	1.0000	.9258	1.0000	815
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	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

NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$
1		211.2	44605.4	1079418.6	1.0413	1.0308
2						
3						
4						
5						

$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 840$			
Absolute Open Flow _____ 840 _____ Mcfd @ 15.025		Angle of Slope @ _____ Slope, n .75	

Remarks: _____			
Approved By Division	Conducted By: Steve Kelleraers	Calculated By: James Smith	Checked By: C. C. Parsons
