

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 8-30-83	
Company Southland Royalty Company			Connection Southern Union Gathering		
Pool Blanco			Formation Pictured Cliffs		Unit
Completion Date 7-29-83		Total Depth 2812'		Plug Back TD 2782'	Elevation 6136' GL
Farm or Lease Name Hubbard		Well No. 7			
Csq. Size 2.875	Wt. 6.4#	d 2.441	Set At 2793'	Perforations: From 2527' To 2622'	
Thq. Size ---	Wt. ---	d ---	Set At ---	Perforations: From --- To ---	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple G. G. - Multiple				Packer Set At ---	
Producing Thru Casing		Reservoir Temp. °F #		Mean Annual Temp. °F 12.2	
Baro. Press. - P _g 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. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
SI									1050		
1.	2"	X	3/4"						143		1 hr
2.									101		2 hrs
3.									89		3 hrs
4.											
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	12.365		101.2	1.0000	.9258	1.0000	1158
2.							
3.							
4.							
5.							

NO.	P _t	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 1062.2		P _c ² 1128268.8			
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	
1		101.2	10241.4	1118027.4	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0092$
2					(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0078$
3					
4					
5					

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1167$$

Absolute Open Flow 1167 Mcfd @ 15.025 Angle of Slope 1.85

Remarks:

Approved by Division _____ Conducted By: Richard Ramos
 Calculated By: James W. Smith
 Checked By: R. E. Fielder