

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 12-26-83	
Company Southland Royalty Company				Connection Southern Union Gathering		
Pool Undesignated				Formation Fruitland		Unit
Completion Date 11-17-83		Total Depth 2775'		Plug Back TD 2747'		Elevation 6136' GL
Farm or Lease Name Hubbard		Well No. 8				
Csq. Size 2.875	Wt. 6.4#	d 2.441	Set At 2488'	Perforations: From 2142' To 2426'		Unit Sec. Twp. Rge. G 15 32N 12W
Tsq. Size ---	Wt. ---	d ---	Set At ---	Perforations: From --- To ---		
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Multiple				Packer Set At ---		County San Juan
Producing Thru Casing		Reservoir Temp. °F #		Mean Annual Temp. °F		State New Mexico
L	H	Gg .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.	
SI									891	
1.	2"	X	3/4"						35	1 hr
2.									30	2 hrs
3.									30	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 Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	12.365		42.2	1.0000	.9258	1.0000	483
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 _c	P _w	P _c ²	P _w ²	P _c ² - P _w ²
1	903.2	42.2	815770.2	1780.8	813989.4
2					
3					
4					
5					

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.0022$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 484$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0019$$

Absolute Open Flow _____ 484 _____ Mcfd @ 15.025	Angle of Slope @ _____	Slope, n .85
Remarks: _____		

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