

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 1-28-86	
Company JEROME P. McHUGH				Connection			
Pool Basin Dakota				Formation Dakota		Unit	
Completion Date 12-7-85		Total Depth 6570' KB		Plug Back TD 6515' KB		Elevation 5630' GL	
Farm or Lease Name Rainbow Seeker				Well No. 1			
Csg. Size 4-1/2"	Wt. 10.5#	d 4.052	Set At 6564'	Perforations: From 6336 To 6398		Unit Sec. Twp. Rge. G 29 31N 12W	
Tng. Size 2-3/8"	Wt. 4.7#	d 1.995	Set At 6391	Perforations: From open ended To			
Type Well - Single - Bradenhead - G.G. 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	
State New Mexico							
L	H	Gg .65 est.	% 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			5/8"				1630		1650	
1.			Pos. choke			58°	87		310	3 hrs.
2.										
3.										
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	8.762		99	0.9962	1.240	1.000	1072
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 1,662	P _c ² 2,762,244	
NO.	P _i ²	P _w
1		322
2		103,684
3		2,658,560
4		
5		

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.039$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1103$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0291$

FEB 1 1986
OIL CON. DIV.
Dist. 3

Absolute Open Flow 1103	Mcf/d @ 15,025	Angle of Slope @ _____
Remarks: _____		
Approved By Division	Conducted By: Hazen	Calculated By: Hazen
		Checked By: