

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☐ Initial ☐ Annual ☐ Special		Test Date 6-2-87	
Company MANANA GAS INC.		Connection Waiting on El Paso Connection	
Pool Basin Dakota		Formation DAKOTA	
Completion Date 6/2/87		Total Depth 6564	Plug Back TD 6496
		Elevation 5489	Farm or Lease Name COOK
Ceq. Size 4.500	Wt. 10.5	Set At 6554	Perforations: From 6261 To 6442
Thq. Size 2.375	Wt.	Set At 6440	Perforations: From To
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE		Packer Set At none	County SAN JUAN
Producing Thru TBG	Reservoir Temp. °F p	Mean Annual Temp. °F	Baro. Press. - P _a N.M.
L	H	G _g	% 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							55T		1125		
1.			750				99	68	498		1 HR
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 F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	12.3650		111	.9924	.3608	1.008	1319
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	G _g Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.					Specific Gravity Separator Gas .650 est. XXXXXXXXXX
3.					Specific Gravity Flowing Fluid XXXXX
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature _____ R _____ R

P _c 1137	P _c ² 1292769	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.2519$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.1835$
NO.	P _i ²	P _w	P _w ²
1		510	260100
2			
3			
4			
5			

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1561$

Absolute Open Flow 1561 Mcfd @ 15.025 Angle of Slope @ _____ Slope, n .75

Remarks: VERY WET W/ DISTILLATE THROUGH OUT TEST

Approved By Division	Conducted By: C.R. Wagner	Calculated By: C.R. W.	Checked By:
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RECEIVED JUN - 5 1987