STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

30-045-26743

Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

RECEIVED
OCT 24 1986
OIL CON. DIV.
DIST. 3

Type Test: ☒ Initial ☐ Annual ☐ Special				Test Date: 10-16-86	
Company: MANANA GAS INC.			Connection: El Paso Natural Gas Co.		Unit
Pool: Basin Dakota			Formation: DAKOTA		
Completion Date: 10/16/86	Total Depth: 6503		Plug Back TD: 6452	Elevation: 5485 GL	Farm or Lease Name: HARTMAN
Csg. Size: 4.5 / Wt.: 10.5 / d: / Set At: 6423			Perforations: From 6152 To 6376		Well No.: #I-E
Tbg. Size: 2.375 / Wt.: / d: / Set At: 6350			Perforations: From To		Unit: A / Sec.: 22 / Twp.: 29N / Rge.: IIW
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: SINGLE DAKOTA			Packer Set At: None		County: SAN JUAN
Producing Thru: TBG	Reservoir Temp. °F:	Mean Annual Temp. °F:	Baro. Press. – P_a:		State: N.M.

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps

FLOW DATA / TUBING DATA / CASING DATA

NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	Tubing Press. p.s.i.g.	Tubing Temp. °F	Casing Press. p.s.i.g.	Casing Temp. °F	Duration of Flow
SI											
1.			.750				851		976		7 DAY
2.							111	56	424		3 HRS
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	12.3650		123	1.004	.9608	1.011	1483
2.							
3.							
4.							
5.							

NO.	P_t	Temp. °R	T_f	Z
1.				
2.				
3.				
4.				
5.				

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
Specific Gravity Separator Gas .650 est. XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX
Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
Critical Temperature _____ R _____ R

P_c 988 P_c^2 976144

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		436	190096	786048
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.2418$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.176$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1745$

Absolute Open Flow 1745 Mcfd @ 15.025 Angle of Slope θ _____ Slope, n .75

Remarks: VERY WET, HEAVY FOG OF WATER THROUGH OUT TEST

Approved By Division	Conducted By:	Calculated By:	Checked By:
	C.R. WAGNER	C.R. WAGNER	