3 - NMOCD 1 - McHugh 1 - El Paso 1 - File

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form C-122
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test: [XX] Initial [ ] Annual [ ] Special				Test Date: 10-23-80	
Company: Jerome P. McHugh		Connection:			
Pool: WAW - Fruitland - P.C.		Formation: Fruitland			Unit:
Completion Date: 10-16-80	Total Depth: 1296'		Plug Back TD: 1296'	Elevation: 5987' GL	Farm or Lease Name: Bengal A
Csg. Size: 4½ / Wt.: 10.5 / d: / Set At: 1251'			Perforations: From open To hole		Well No.: 4R
Tbg. Size: 1¼ / Wt.: 2.4 / d: / Set At: 1272			Perforations: From open To end		Unit: C / Sec.: 1 / Twp.: 26N / Rge.: 12W
Type Well – Single – Bradenhead – G.C. or G.O. Multiple: Single - Gas			Packer Set At:		County: San Juan
Producing Thru: tbg	Reservoir Temp. °F:	Mean Annual Temp. °F:	Baro. Press. – P_a:		State: NM

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
		.62						

FLOW DATA

NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	TUBING DATA Press. p.s.i.g.	TUBING DATA Temp. °F	CASING DATA Press. p.s.i.g.	CASING DATA Temp. °F	Duration of Flow
SI							222		222		7 days
1.											
2.											
3.	1/2 pos choke						1	70	2		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							
2.							
3	5.4315		13	.9905	.9837	1.007	69
4.							
5.							

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

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

RECEIVED
NOV 5 1980
OIL CON. COM.
DIST. 3

P_c 234 P_c^2 54756

NO	P_t	P_w	P_w^2	$P_c^2 - P_w^2$
1				
2				
3		14	196	54560
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0036$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.0031$ n = .85

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 69$

Absolute Open Flow 69 Mcfd @ 15.025 Angle of Slope θ _____ Slope, n .85

Remarks: _____

Approved By Division | Conducted By: | Calculated By: | Checked By: