3 - NMOCD 1 - McHugh 1 - El Paso (Bob Clark)

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

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: XXX Initial ☐ Annual ☐ Special				Test Date: 12-6-80	
Company: Jerome P. McHugh		Connection:			
Pool: S. Blanco		Formation: Pictured Cliffs		Unit:	
Completion Date: 11-28-80	Total Depth: 3130'	Plug Back TD: 3083'	Elevation: 7146' GL	Farm or Lease Name: Jelly Dog Jerry	
Csg. Size: 4½" / Wt.: 10.5# / d: / Set At: 3126' GL		Perforations: From 2989 To 3044		Well No.: 2	
Tbg. Size: 1¼" / Wt.: 2.4# / d: / Set At: 3013'		Perforations: From open end To		Unit: G / Sec.: 32 / Twp.: 24N / Rge.: 2W	
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single - gas		Packer Set At:		County: Rio Arriba	
Producing Thru:	Reservoir Temp. °F:	Mean Annual Temp. °F:	Baro. Press. – P_a:	State: New Mexico	
L:	H:	Gg: .62 est.	% CO_2:	% N_2:	% H_2S:
Prover:	Meter Run:	Taps:			

NO.	FLOW DATA: Prover Line Size X Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	TUBING DATA: Press. p.s.i.g.	Temp. °F	CASING DATA: Press. p.s.i.g.	Temp. °F	Duration of Flow
SI					830		915		7 days
1.									
2.									
3.	½" Pos. choke	127				62	440		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.	5.4315		139	.9981	.9837	1.012	750
3.							
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. _____ P.S.I.A.
Critical Temperature _____ R _____ R

P_c 927 P_c^2 859,329

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1				
2				
3		452	204,304	655,025
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.3119$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.2596$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 945$

Absolute Open Flow 945 Mcfd @ 15.025 | Angle of Slope θ _____ | Slope, n _____

Remarks: _____

Approved By Division	Conducted By:	Calculated By: Jacobs	Checked By:

RECEIVED
DEC 15 1980
OIL CON. COM.
DIST. 3