3-NMOCD 1-McHugh 1-NWP 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: [X] Initial [ ] Annual [ ] Special				Test Date: 6-19-80	
Company: Jerome P. McHugh		Connection:			
Pool: Basin		Formation: Dakota		Unit:	
Completion Date: 4-22-80	Total Depth: 6130'	Plug Back TD: 6079'	Elevation: 6271' GL	Farm or Lease Name: Erin Stays Com	
Csg. Size: 4-1/2" / Wt.: 10.5# / d: / Set At: 6130' RKB		Perforations: From 5922 To 5970		Well No.: #1E	
Tbg. Size: 1-1/2" / Wt.: 2.9# / d: / Set At:		Perforations: From Open To End		Unit: — Sec.: 2 Twp.: 25N Rge.: 11W	
Type Well – Single – Bradenhead – G.G. 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: New Mexico	
L:	H:	Gg: .65 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					1790		1850		7 days
1.									
2.									
3.	3/4" Pos Choke	127		60°	270		720		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.	12.365		139	1.000	.9608	1.012	1671
4.							
5.							

NO.	P_r	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 1862 P_c^2 3,467,044

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1				
2				
3		732	534824	2931220
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.1880$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^{.75} = 1.1342$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1895$

Absolute Open Flow 1895 Mcfd @ 15.025 | Angle of Slope θ _____ | Slope, n .75

Remarks: Well made 22 bbls oil to tank in 3 hrs.

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