3-NMOCC (Aztec) 1-McHugh 1-EPNG (Bob Clark) 1-File

NEW MEXICO OIL CONSERVATION COMMSSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 8-19-77	
Company: Jerome P. McHugh		Connection:			
Pool: Undesignated		Formation: Fruitland			Unit:
Completion Date: 8-11-77	Total Depth: 1338'		Plug Back TD: 1308'	Elevation: 5951' GR	Farm or Lease Name: Bengal C
Csg. Size: 2-7/8" / Wt.: 6.5# / d: / Set At: 1332'			Perforations: From 1137' To 1142'		Well No.: 3
Tbg. Size: 1-1/4" / Wt.: 2.4# / d: / Set At: 1164'			Perforations: From 936' To 950'		Unit: A / Sec.: 36 / Twp.: 27N / Rge.: 13W
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single - Gas			Packer Set At:		County: San Juan
Producing Thru: Tubing	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:			

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						275		265		7 days
1.										
2.										
3.	5/8" Pos Choke		4		60°			31		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.	8.5417		16.00	1.000	.9981	1.000	136
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 _____ XXXXXXXXX

Specific Gravity Flowing Fluid XXXXX _____

Critical Pressure _____ P.S.I.A. _____ P.S.I.A.

Critical Temperature _____ R _____ R

P_c 287 P_c^2 82,369

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1				
2				
3		43	1,849	80,520
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.02$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^{n \cdot 85} = 1.0195$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 139$

Absolute Open Flow 139 Mcfd @ 15.025 Angle of Slope θ _____ Slope, n .85

Remarks: _____

Approved By Commission: _____ Conducted By: Charles Hall Calculated By: William S. Donovan Checked By: _____

RECEIVED
AUG 25
OIL CON. COM.
DIST. 3