3-NMOCC 1-McHugh 1-EPNG (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: 4-1-74	
Company: Jerome P. McHugh		Connection:			
Pool: Basin Dakota		Formation: Dakota			Unit:
Completion Date: 3-23-74	Total Depth: 6027'		Plug Back TD: 5879'	Elevation: 6394'	Farm or Lease Name: Colket
Csg. Size: 5-1/2" / Wt.: 17# / d: 4.892" / Set At: 6027'			Perforations: From 5844' To 5870'		Well No.: 1
Tbg. Size: 2-7/8" / Wt.: 6.5# / d: 2.441" / Set At: 5834'			Perforations: From Open End To		Unit: C / Sec.: 15 / 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

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							1975		1980		7 days
1.											
2.											
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 Compr. Factor, Fpv	Rate of Flow Q, Mcfd
1							
2.							6808
3.							
4.							
5.							

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OIL CON. COM.
DIST. 3

NO.	P_t	Temp. °R	T_t	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 1992 P_c^2 3,968,064

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1				
2		832	692,224	3,275,840
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.2113$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = \left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^{.75} = 1.1545$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 7860$

Absolute Open Flow 7860 Mcfd @ 15.025 | Angle of Slope θ _____ | Slope, n .75

Remarks: Q is pitot tube gauge after flowing 15 hours.

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Crane & Jacobs	Jacobs	