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: 3-20-78	
Company: Merrion & Bayless	Connection: New Well			
Pool: Ballard Undesignated	Formation: Pictured Cliffs Upper Chacra		Unit	
Completion Date: 9-26-77	Total Depth: 2765' KB	Plug Back TD: 2729' KB	Elevation: 6869' GL	Farm or Lease Name: Jicarilla 428
Csg. Size: 2-7/8" / Wt.: 6.4#/ft. / d: 2.441 / Set At: 2757	Perforations: From PC - 2150 To 2162; From CH - 2614 To 2668			Well No.: 3
Tbg. Size: Tubingless Completion / Wt. / d / Set At	Perforations: From To			Unit: M / Sec.: 29 / Twp.: 23N / Rge.: 4W
Type Well - Single - Bradenhead - G.G. or G.O. Multiple: Gas - Single - Commingled (R-5622)	Packer Set At: none			County: Sandoval
Producing Thru: Casing	Reservoir Temp. °F	Mean Annual Temp. °F	Baro. Press. - P_a: 12.0	State: New Mexico

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
		.60				2"		

	FLOW DATA					TUBING DATA		CASING DATA		
NO.	Prover Line Size	X Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	Duration of Flow
SI								656		SIP
1.	2"	x 3/8"	50	---	48°	---	---	50	48°	2 hrs.
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 Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	2.378		62	1.012	1.291	1.015	196
2.							
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 _____ XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX _____
Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
Critical Temperature _____ R _____ R

P_c 668 P_c^2 446,224

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1	3844	63	3969	
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0090$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.0076$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 197$

Absolute Open Flow 197 Mcfd @ 15.025 Angle of Slope θ _____ Slope, n 0.85

Remarks:

GL	$(1-e^{-S})$	F_cQ^2	R^2	$P_t^2+R^2$	P_w
1601	.120	1184	142	3986	63

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Steven S. Dunn	Steven S. Dunn	R. L. Bayless