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: 8/29/74	61-500
Company: Atlantic Richfield Company		Connection: El Paso Natural Gas Company			
Pool: Jalmat		Formation: Yates			Unit: C
Completion Date: 7-14-74	Total Depth: 3650	Plug Back TD: 3633	Elevation: GL 3474	Farm or Lease Name: Curran Jones WN	
Csg. Size: 4.5 / Wt.: 9.5 / d: 4.090 / Set At: 3649		Perforations: From 3206 To 3624		Well No.: 10	
Tbg. Size: 2.375 / Wt.: 4.7 / d: 1.995 / Set At: 3529		Perforations: From open To ended		Unit: C / Sec.: 34 / Twp.: 22S / Rge.: 36E	
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single		Packer Set At: None		County: Lea	
Producing Thru: Tbg.	Reservoir Temp. °F: 90 @ 3650	Mean Annual Temp. °F: 60	Baro. Press. – P_a: 13.2	State: New Mexico	

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
3529	3529	.700	----	----	-----	----	4"	Flg.

	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						220		221		24 hr.
1.	4	x 2.00	62	1.96	65	195		204		45 Min.
2.	4	x 2.00	63	4.84	68	179		194		45 Min.
3.	4	x 2.00	65	7.1	63	160		182		1 hr.
4.	4	x 2.00	65	11.2	67	139		170		30 Min.
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	19.81	12.14	75.2	.9952	1.195	Nil	286
2.	19.81	19.20	76.2	.9924	1.195	Nil	451
3.	19.81	23.56	78.2	.9971	1.195	Nil	556
4.	19.81	29.59	78.2	.9933	1.195	Nil	696
5.							

NO.	P_t	Temp. °R	T_r	Z
1.	.11	525	1.34	Nil
2.	.11	528	1.35	Nil
3.	.12	523	1.33	Nil
4.	.12	527	1.34	Nil
5.				

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons Dry Deg.
Specific Gravity Separator Gas .700 XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX
Critical Pressure 668 P.S.I.A. _____ P.S.I.A.
Critical Temperature 392 R _____ R

P_c 234.2 P_c^2 54.85

NO	P_t	P_w	P_w^2	$P_c^2 - P_w^2$
1		217.2	47.18	7.67
2		207.2	42.93	11.92
3		195.2	38.10	16.75
4		183.2	33.56	21.29
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.576$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2.289$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1,593$

Absolute Open Flow 1,593 Mcfd @ 15.025 Angle of Slope θ 48.75° Slope, n .875

Remarks: No fluid made.

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Rick Pagan	Rick Pagan	L. C. Hudry