NEW EXICO OIL CONSERVATION COMMSS

MULTIPOINT AND ONE POINT BACK PRESSURE TEST . JR GAS WELL

Form C-122
Revised 9-1-65

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 3/24/76	
Company: Atlantic RichfieldCompany			Connection: El Paso Natural Gas Company		
Pool: Eumont Queen Gas			Formation: Eumont Queen		Unit
Completion Date: 12/11/75	Total Depth: 3750		Plug Back TD: 3520	Elevation: 3456 GL	Farm or Lease Name: State #157 D
Csg. Size: 7" / Wt.: 24# / d: 6.336 / Set At: 3572			Perforations: From 3262 To 3495		Well No.: #4
Tbg. Size: 2 3/8" / Wt.: 4.7 / d: 1.995 / Set At: 3294			Perforations: From Open To Ended		Unit: I / Sec.: 12 / Twp.: 22S / Rge.: 36E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single			Packer Set At: 3052		County: Lea
Producing Thru: Tbg	Reservoir Temp. °F: 108 @ 3379	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
3379	3379	.701	---	---	---	---	4"	Flwg.

	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							Pkr		48 hrs.
1.	4 x 1.750	84	3.24	57	430	74			1 Hr.
2.	4 x 1.750	87	7.29	62	304	74			1 Hr.
3.	4 x 1.750	89	19.80	60	272	74			45 min.
4.	4 x 1.750	91	32.49	61	241	74			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	14.93	17.75	97.2	1.003	1.194	nil	317
2	14.93	27.03	100.2	.9981	1.194	nil	481
3	14.93	44.98	102.2	1.000	1.194	nil	802
4	14.93	58.18	104.2	.9990	1.194	nil	1036
5							

NO.	P_t	Temp. °R	T_t	Z
1	.15	517	1.32	nil
2	.15	522	1.33	nil
3	.15	520	1.33	nil
4	.16	521	1.33	nil
5				

Gas Liquid Hydrocarbon Ratio: dry Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: Deg.
Specific Gravity Separator Gas: .701 XXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX .701
Critical Pressure: 668 P.S.I.A. 668 P.S.I.A.
Critical Temperature: 392 R 392 R

P_c 874.2 P_c^2 764.2

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		44.7	197.8	566.4
2		322.3	103.9	660.3
3		300.7	90.4	673.8
4		282.5	79.8	684.4
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.117$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.117$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1,157$

Absolute Open Flow: 1,157 Mcfd @ 15.025 Angle of Slope θ: 45° Slope, n: 1.000

Remarks: AOF calculated by computer

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Reggie Reston & Rick Pagan	Rick Pagan	