NEW MEXICO OIL CONSERVATION COMMSSION

MULTIPOINT A: ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test: [X] Initial [ ] Annual [ ] Special — Test Date: 10-2-73

Company: El Paso Natural Gas Company — Connection: None

Pool: Jalmat — Formation: Yates-Seven Rivers — Unit:

Completion Date: 10-2-73 — Total Depth: 3240 — Plug Back TD: 3240 — Elevation: 2991.8 Gr. — Farm or Lease Name: Rhodes G.S.U.

Csg. Size: 4 1/2 — Wt.: 10.5 — d: — Set At: 3240 — Perforations: From 2834 To 3124 — Well No.: 19

Tbg. Size: 2 3/8 — Wt.: — d: — Set At: — Perforations: From To — Unit: — Sec.: 16 — Twp.: 26 — Rge.: 37

Type Well - Single - Bradenhead - G.G. or G.O. Multiple: Single — Packer Set At: — County: Lea

Producing Thru: Csg. — Reservoir Temp. °F: — Mean Annual Temp. °F: — Baro. Press. - P_a: — State: New Mexico

H: — Gg: .650 — % CO_2: — % N_2: — % H_2S: — Prover: 2" — Meter Run: — Taps:

NO	FLOW DATA: Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	TUBING DATA: Press. p.s.i.g.	Temp. °F	CASING DATA: Press. p.s.i.g.	Temp. °F	Duration of Flow
1							457		457		72
2	2	x	1/8	452		72	452	72	453	72	45 M
3	2	x	3/16	441		73	440	73	443	73	45M
4	2	x	7/32	433		74	433	74	435	74	45 M
5	2	x	1/4	378		76	378	76	408	76	1 H
6											

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	.2048		465.2	.9887	1.240	1.045	158
2	.5052		452.2	.9877	1.240	1.044	353
3	.8293		446.2	.9858	1.240	1.043	478
4	1.087		391.2	.9850	1.240	1.037	539
5							

NO	P_r	Temp. °R	T_r	Z
1	.70	532	1.42	.916
2	.69	533	1.42	.917
3	.67	534	1.42	.919
4	.68	536	1.43	.930
5				

Gas Liquid Hydrocarbon Ratio: Dry Mcf/bbl.

A.P.I. Gravity of Liquid Hydrocarbons: Deg.

Specific Gravity Separator Gas: XXXXXXXXXX

Specific Gravity Flowing Fluid: XXXXX

Critical Pressure: 670 P.S.I.A. — P.S.I.A.

Critical Temperature: 375 R — R

P_c: 470.2 — P_c^2: 221.1

NO	P_w	P_w^2	$P_c^2 - P_w^2$
1	465.2	237.3	3.8
2	455.2	230.1	13.0
3	448.2	200.9	20.2
4	421.2	177.4	43.7
5			

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 10.95$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 4.807$

$AOF = Q\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2.298$

Absolute Open Flow: 2,298 Mcfd @ 15.025 — Angle of Slope θ: 56.75 — Slope, n: .656

Remarks:

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Randy Kiker	Randy Kiker	