NEW MEXICO OIL CONSERVATION COMMISSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test: ☐ Initial ☐ Annual ☒ Special			Test Date: 5-14-18-73	
Company: El Paso Natural Gas Co.	Connection: El Paso Natural Gas Company			
Pool: Rhodes	Formation: Yates		Unit	
Completion Date	Total Depth: 3213	Plug Back TD	Elevation	Farm or Lease Name: Rhodes A
Csg. Size: 8 1/4 / Wt.: 36# / d / Set At: 3040	Perforations: From open To end			Well No.: 1
Tbg. Size: None / Wt. / d / Set At	Perforations: From open To end			Unit: C / Sec.: 22 / Twp.: 26 / Rge.: 37
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single	Packer Set At			County: Lea
Producing Thru: TBG	Reservoir Temp. °F: @	Mean Annual Temp. °F: 74°	Baro. Press. – P_a: 13.2	State: New Mexico
L: .3040 / H: 3040	Gg: .661	% CO_2	% N_2	% H_2S / Prover / Meter Run: 6" / Taps: Flg.

FLOW DATA

NO.	Prover Line Size X Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	TUBING DATA Press. p.s.i.g.	TUBING DATA Temp. °F	CASING DATA Press. p.s.i.g.	CASING DATA Temp. °F	Duration of Flow
SI					263	74			72 hr
1.	5.761 x 3.000	37	2.9	56	234				24
2.	5.761 x 3.000	36	81	58	214				24
3.	5.761 x 3.000	36	14.4	60	197				24
4.	5.761 x 3.000	37	21.2	62	173				24
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	44.51	12.07	50.2	1.004	1.230	Nil	663
2.	44.51	19.96	49.2	1.002	1.230	Nil	1,095
3.	44.51	26.65	49.2	1.000	1.230	Nil	1,459
4.	44.51	32.62	50.2	.9924	1.230	Nil	1,772
5.							

NO.	P_r	Temp. °R	T_r	Z
1.				
2.				
3.			Neg.	
4.				
5.				

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons None Deg.
Specific Gravity Separator Gas .661 XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX
Critical Pressure 670 P.S.I.A. _____ P.S.I.A.
Critical Temperature 378 R _____ R

P_c 276.2 P_c^2 76.3

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1			61.1	15.2
2			51.6	24.7
3			44.2	32.1
4			34.7	41.6
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.834$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.797$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 3.184$

Absolute Open Flow 3,184 Mcfd @ 15.025 Angle of Slope θ 46° Slope, n .966

Remarks: _____

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Randy Kiker	J. C. Roberts	