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: 11-2-73	
Company: EL PASO NATURAL GAS COMPANY		Connection: None			
Pool: Jalmat		Formation: Yates		Unit	
Completion Date: 11-2-73	Total Depth: 3110	Plug Back TD: 3078	Elevation: 2949.1	Farm or Lease Name: Rhodes GSU	
Csg. Size: 4 1/2 / Wt.: 10.5 / d / Set At: 3110		Perforations: From 2692 To 2999		Well No.: 14	
Tbg. Size: 2 3/8" / Wt.: 4.7 / d / Set At: 2605.43		Perforations: From To		Unit: G / Sec.: 9 / 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	Baro. Press. – P_a	State: New Mexico	
L / H	Gg .650 Assumed	% CO_2	% N_2	% H_2S	Prover: 2" / Meter Run / Taps

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						528		528		20 hrs.
1.	2	x 1/8	521		71	521	71	522		45 min.
2.	2	x 3/16	515		74	515	74	517		45 min.
3.	2	x 7/32	506		74	506	74	509		45 min.
4.	2	x 1/4	495		74	495	74	499		45 min.
5.	2	x 3/8	424		74	424	74	457		1 hr.

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	.2648		534.2	.9896	1.240	1.052	183
2.	.6082		528.2	.9868	1.240	1.050	413
3.	.8393		519.2	.9868	1.240	1.048	559
4.	1.087		508.2	.9868	1.240	1.048	708
5.	2.378		437.2	.9868	1.240	1.040	1342

NO.	P_t	Temp. °R	T_r	Z
1.	.80	531	1.42	.903
2.	.79	534	1.43	.907
3.	.77	534	1.43	.910
4.	.76	534	1.43	.911
5.	.64	534	1.43	.924

Gas Liquid Hydrocarbon Ratio: Dry Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: Deg.
Specific Gravity Separator Gas: .650 XXXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX
Critical Pressure: 670 P.S.I.A. P.S.I.A.
Critical Temperature: 375 R R

P_c 541.2 P_c^2 292.9

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		535.2	286.5	6.4
2		530.2	281.1	11.8
3		522.2	272.7	20.2
4		512.2	262.3	30.6
5		470.2	221.1	71.8

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 4.079$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2.675$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 3.590$

Absolute Open Flow: 3,590 Mcfd @ 15.025 | Angle of Slope θ: 55° | Slope, n: .700

Remarks:

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