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: 8-30-73	
Company: El Paso Natural Gas Company		Connection: None		
Pool: Jalmat		Formation: Yates		Unit
Completion Date: 9-7-73	Total Depth: 3111	Plug Back TD	Elevation: 2985.2 Gr	Farm or Lease Name: Rhodes Storage G. U.
Csg. Size: 4½ / Wt.: 10.5 / d / Set At: 3106		Perforations: From 2822 To 3070		Well No.: 2
Tbg. Size: 2 3/8 / Wt.: 4.7 / d / Set At: 2749		Perforations: From To		Unit: 8 / Sec.: 26 / Twp.: 37 / Rge.:
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	G: Assumed .655	% 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
SI					632		632		72 hr.
1.	2 x 3/16			71	595		597		1 hr.
2.	2 x 7/32			78	575		579		1 hr.
3.	2 x 1/4			84	550		556		1 hr.
4.	2 x 3/8			84	434		454		1 hr.
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	.6082		608.2	.9896	1.236	1.062	481
2.	.8393		588.2	.9831	1.236	1.054	631
3.	1.087		563.2	.9777	1.236	1.051	778
4.	2.378		447.2	.9777	1.236	1.040	1337
5.							

NO.	P_t	Temp. °R	T_f	Z
1.	.91	531	1.42	.886
2.	.88	538	1.44	.901
3.	.84	544	1.45	.906
4.	.67	544	1.45	.924
5.				

Gas Liquid Hydrocarbon Ratio: Dry Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: Deg.
Specific Gravity Separator Gas: .655 XXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX
Critical Pressure: 670 P.S.I.A. P.S.I.A.
Critical Temperature: 375 R R

P_c 645.2 P_c^2 416.3

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		610.2	356.4	59.9
2		592.2	350.7	65.6
3		569.2	324.0	92.3
4		467.2	218.2	198.0
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.103$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.683$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2249$

Absolute Open Flow: 2,249 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	