EW MEXICO OIL CONSERVATION CO. SION

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: 5-22-74	
Company: Cities Service Oil Company		Connection: El Paso Natural Gas Company		
Pool: So. Carlsbad		Formation: Morrow		Unit
Completion Date: 2-28-74	Total Depth: 11642	Plug Back TD: 11593	Elevation: 3090' GR	Farm or Lease Name: Paslay A
Csg. Size: 7 5/8 & 5½ / Wt. / d / Set At: 11634		Perforations: From 11123 To 11557		Well No.: 1
Tbg. Size: 2 7/8 / Wt.: 6.5 / d / Set At: 11311		Perforations: From To		Unit: K / Sec.: 8 / Twp.: 22 / Rge.: 27
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Dual Gas-Gas		Packer Set At: 11072'		County: Eddy
Producing Thru: /Csg.	Reservoir Temp. °F: 180 @ 11500 (Est.)	Mean Annual Temp. °F	Baro. Press. – P_a	State: New Mexico

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
*10365	*10365	.577					4"	Flg.

NO.	Prover Line Size	X	Orifice Size	FLOW DATA 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											
1.	4	x	2.750	493	9.00	80			3550		24 hrs.
2.	4	x	2.750	510	19.40	79			3290	91	1 hr.
3.	4	x	2.750	539	36.00	78			2945	93	1 hr.
4.	4	x	2.750	570	59.30	76			2582	94	1 hr.
5.									2227	95	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	41.10	67.50	506.2	.9813	1.316	1.030	3,600
2.	41.10	100.75	523.2	.9822	1.316	1.031	5,518
3.	41.10	140.99	552.2	.9831	1.316	1.033	7,744
4.	41.10	185.97	583.2	.9850	1.316	1.035	10,255
5.							

NO.	P_t	Temp. °R	T_r	Z
1.	.75	540	1.56	.942
2.	.78	539	1.56	.940
3.	.82	538	1.55	.937
4.	.87	536	1.55	.933
5.				

Gas Liquid Hydrocarbon Ratio: Dry Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: None Deg.
Specific Gravity Separator Gas: .577 XXXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX
Critical Pressure: 672 P.S.I.A. ____ P.S.I.A.
Critical Temperature: 346 R ____ R

P_c 3563.2 P_c^2 12696.4

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1			10915.4	1781.0
2			8760.1	3936.3
3			6752.7	5943.7
4			5044.3	7647.1
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 3.225$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2.822$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 15.572$

Absolute Open Flow: 15,572 Mcfd @ 15.025 | Angle of Slope θ: 48.5 | Slope, n: .886

Remarks: No fluid produced during test.
*Equiv. length converted to 6 5/8 - 30# and 2 7/8 - 65 L = 10365.

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Rick Pagan	J. B. Murray	