W MEXICO OIL CONSERVATION COM SION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

RECEIVED

Type Test: [x] Initial [ ] Annual [ ] Special			Test Date: 5/22/74	
Company: Cities Service Oil Company	Connection: El Paso Natural Gas Company			
Pool:	Formation: Strawn			Unit:
Completion Date: 2-28-74	Total Depth: 11,642'	Plug Back TD: 11,593'	Elevation: 3090' Gr.	Farm or Lease Name: Paslay A
Csg. Size: 7 5/8 & 5½ / Wt.: 37-20# / d: 6.625" - 4.778" / Set At: 11634	Perforations: From 10276 To 10284			Well No.: 1
Tbg. Size: 2 7/8 / Wt.: 6.5 / d: 2.441" / 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: 10,108'		County: Eddy
Producing Thru: Tbg.	Reservoir Temp. °F: 170 @ 10276 (Est.)	Mean Annual Temp. °F: 60	Baro. Press. – P_a: 13.2	State: New Mexico

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
*10108	*10108	.632					4"	Flg.

	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					3277				24 hr.
1.	4 x 2.250		4.40	80	3024	90			1 hr.
2.	4 x 2.250		7.60	82	2820	92			1 hr.
3.	4 x 2.250		13.30	82	2529	92			1 hr.
4.	4 x 2.250		19.40	82	2140	94			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	25.64	47.19	506.2	.9813	1.258	1.045	1,561
2.	25.64	63.06	523.2	.9795	1.258	1.048	2,088
3.	25.64	85.70	552.2	.9795	1.258	1.049	2,840
4.	25.64	106.37	583.2	.9795	1.258	1.052	3,353
5.							

NO.	P_t	Temp. °R	T_r	Z
1.	.76	540	1.47	.915
2.	.79	542	1.47	.911
3.	.82	542	1.47	.908
4.	.87	542	1.47	.903
5.				

Gas Liquid Hydrocarbon Ratio 35.0 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons 57.7 @ 60° Deg.
Specific Gravity Separator Gas .632 xxxxxxxxx
Specific Gravity Flowing Fluid xxxxx G Mix - 714
Critical Pressure 670 P.S.I.A. 668 P.S.I.A.
Critical Temperature 368 R 395 R

P_c 3290.2 P_c^2 10825.4

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1			9251.9	1573.5
2			8074.4	2751.0
3			6547.0	4278.4
4			4749.4	6076.0
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.782$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.396$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 4.681$

Absolute Open Flow 4,681 Mcfd @ 15.025 Angle of Slope θ Slope, n

Remarks: Made a total of 11.73 Bbls. 57.7 API condensate @ 60° during test.
* Crossover into Tbg. at this point.

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