NEW MEXICO OIL CONSERVATION COMMISSION

MULTI POINT AND ONE POINT BACK PRESSU TEST FOR GAS WELL

Form C-122
Revised 9-1-65

RECEIVED

JUN 25 1982

O. C. D.
ARTESIA, OFFICE

Type Test: [X] Initial [ ] Annual [ ] Special							Test Date: 6-8-82		
Company: CITIES SERVICE CO.						Connection: El Paso Natural Gas			
Pool: Burton Flat						Formation: Morrow			Unit
Completion Date: 6-12-82		Total Depth: 11,325			Plug Back TD: 11,243		Elevation: 3258 Gl.		Farm or Lease Name: GOV. "AG"
Csg. Size: 5½"	Wt.: 17# 20#	d: 4.892 4.778	Set At: 11,325		Perforations: From 11,015 To 11,036				Well No.: 1
Tbg. Size: 2 7/8"	Wt.: 6.5#	d: 2.441	Set At: 10,900		Perforations: From OPEN ENDED To				Unit: J Sec.: 17 Twp.: 20S Rge.: 28E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: SINGLE					Packer Set At: 10,900'				County: Eddy
Producing Thru: Tubing		Reservoir Temp. °F:		Mean Annual Temp. °F: 60°		Baro. Press. – P_a: 13.2			State: New Mexico
L: 11,026	H: 11,026	Gg: .6541	% CO_2: .972	% N_2: 1.809	% H_2S:	Prover:	Meter Run: 4.026		Taps: Flange

FLOW DATA / TUBING DATA / CASING DATA

NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	Tubing Press. p.s.i.g.	Tubing Temp. °F	Casing Press. p.s.i.g.	Casing Temp. °F	Duration of Flow
SI							2370		PKR	CHOKE	24 Hrs.
1.	4	x	1.00	570	6	80	2177	82		8/64	1 Hr.
2.	4	x	1.00	570	15	66	1919	80		12/64	1 Hr.
3.	4	x	1.00	570	34	75	1515	79		15/64	1 Hr.
4.	4	x	1.00	570	50	90	1041	79		19/64	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	4.753	59.2	583.2	.9813	1.237	1.051	359
2	4.753	93.5	583.2	.9943	1.237	1.055	577
3	4.753	140.8	583.2	.9859	1.237	1.052	859
4	4.753	170.8	583.2	.9723	1.237	1.047	1022
5							

NO.	P_t	Temp. °R	T_r	Z
1	.87	540	1.46	.905
2	.87	526	1.43	.898
3	.87	535	1.45	.903
4	.87	550	1.49	.912
5				

Gas Liquid Hydrocarbon Ratio: tstm Mcf/bbl.

A.P.I. Gravity of Liquid Hydrocarbons: Deg.

Specific Gravity Separator Gas: .6541 XXXXXXXXX

Specific Gravity Flowing Fluid: XXXXX

Critical Pressure: 678 P.S.I.A. P.S.I.A.

Critical Temperature: 369 R R

P_c ____ P_c^2 ____

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		2190.2	4797	883
2		1932.2	3733	1947
3		1528.2	2335	3345
4		1054.2	1111	4569
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.2431$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.15335$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1179$

Absolute Open Flow: 1179 Mcfd @ 15.025 | Angle of Slope θ: 56° 45' | Slope, n: .65550

Remarks:

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	T.B.	M.K.	M.K.