NEW MEXICO OIL CONSERVATION COMMSSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

RECEIVED
SEP 14 1981
O. C. D.
ARTESIA, OFFICE

Type Test: [X] Initial [ ] Annual [ ] Special						Test Date: 8=20-81			
Company: Cities Service Co.									
Pool: MORROW								Unit: J	
Completion Date: 8-15-81	Total Depth: 12,545			Plug Back TD: 12,5005		Elevation: 3039 Gr.		Farm or Lease: Brantley "A"	
Csg. Size: 7" 5" Liner	Wt.: 23# 18#	d: 6.366	Set At: 10940 10614-12545	Perforations: From 12,049	To 12,077			Well No.: 1	
Tbg. Size: 2 7/8	Wt.: 6.5	d: 2.441	Set At: 11,939	Perforations: From 11,939	To			Unit: J	Sec.: 7	Twp.: 23S	Rge.: 28E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: SINGLE				Packer Set At: 11,939				County: EDDY	
Producing Thru: Tubing	Reservoir Temp. °F: 197° @ 12,063		Mean Annual Temp. °F: 60°	Baro. Press. – P_a: 13.2				State: New Mexico	
L: 12,063	H: 12,063	Gg: .5891	% CO_2: 1.436	% N_2: .750	% H_2S:	Prover:	Meter Run: 4"	Taps: 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							3870		PKR.	Choke	72 Hrs.
1.	4	x	1"	395	16	72	3310			4/64	1 Hr.
2.	4	x	1"	410	31	59	3010			5/64	1 Hr.
3.	4	x	1"	420	46	68	2637			5.5/64	1 Hr.
4.	4	x	1"	425	60	68	2319			6/64	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	80.82	408.2	.9887	1.303	1.030	510
2.	4.753	115.54	423.2	1.001	1.303	1.035	741
3.	4.753	141.16	433.2	.9924	1.303	1.033	896
4.	4.753	162.15	438.2	.9924	1.303	1.034	1030
5.							

NO.	P_t	Temp. °R	T_r	Z
1.	.603	532	1.52	.942
2.	.625	519	1.48	.933
3.	.640	528	1.51	.937
4.	.647	528	1.51	.936
5.				

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
Specific Gravity Separator Gas _____ XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX _____
Critical Pressure 677 P.S.I.A. _____ P.S.I.A.
Critical Temperature 350 R _____ R

P_c 3883.2 P_c^2 15,079

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		3321	11029	4050
2		3021	9126	5953
3		2635	6943	8136
4		2333	5443	9639
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.56486$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.44436$

$\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1487$

Absolute Open Flow 1487 Mcfd @ 15.025 Angle of Slope θ 50° 39' Slope, n 81994

Remarks: No Fluid produced during test.

Approved By Commission:	Conducted By:	Calculated By:	Checked By: