NEW MEXICO OIL CONSERVATION COMMSSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

RECEIVED
APR 26 1976
O. C. C.
ARTESIA, OFFICE

Type Test: [x] Initial [ ] Annual [ ] Special				Test Date: 4/22/76
Company: Texas International Petro.		Connection: El Paso Natural Gas Company		
Pool: Undesignated Morrow		Formation: Upper Morrow		Unit: I
Completion Date: 4/22/76	Total Depth: 11,950	Plug Back TD: 11,908	Elevation:	Farm or Lease Name: Allied State
Csg. Size: 5 1/2 / Wt.: 17# / d: / Set At: 11,950		Perforations: From 11,651 To 11,671		Well No.: 1
Tbg. Size: 2 3/8 / Wt.: 4.7 / d: / Set At: 11,622		Perforations: From open To end		Unit: I / Sec.: 10 / Twp.: 23 / Rge.: 26
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single		Packer Set At: 11,622		County: Eddy
Producing Thru: Tbg.	Reservoir Temp. °F: 190 @ 11,622	Mean Annual Temp. °F:	Baro. Press. – P_a: 13.2	State: New Mexico
L: 11,622 / H: 11,622 / Gg: .585	% CO_2:	% N_2:	% 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						1796				72 hr.
1.	4	x .750	384	4.0	84	1617				1 hr.
2.	4	x .750	384	17.6	79	1341				1 hr.
3.	4	x .750	388	32.5	77	951				1 hr.
4.	4	x .750	388	54.8	76	750				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	2.661	39.86	397.2	.9777	1.307	1.028	139
2.	2.661	83.61	397.2	.9822	1.307	1.028	294
3.	2.661	114.19	401.2	.9840	1.307	1.030	403
4.	2.661	148.28	401.2	.9850	1.307	1.030	523
5.							

NO.	P_t	Temp. °R	T_r	Z
1.	.59	544	1.55	.947
2.	.59	539	1.54	.946
3.	.60	537	1.53	.943
4.	.60	536	1.53	.943
5.				

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
Specific Gravity Separator Gas .585 XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX
Critical Pressure 672 P.S.I.A. _____ P.S.I.A.
Critical Temperature 350 R _____ R

P_c 1809.2 P_c^2 3273.2

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		1630.4	2658.2	615.0
2		1355.3	1836.9	1436.3
3		967.3	935.6	2337.6
4		769.8	592.6	2680.6
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.221$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.203$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = .629$

Absolute Open Flow 629 Mcfd @ 15.025 Angle of Slope θ 47.25 Slope, n .924

Remarks: Made small amount of fluid, unable to get a measurement.

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
		Reggie Reston	