EW MEXICO OIL CONSERVATION CO SSION
MULTIPOIN AND ONE POINT BACK PRESSURE ST FOR GAS WELL

Form C-122
Revised 9-1-65

C/SF
C-122

RECEIVED
MAR 10 1982
O. C. D.
ARTESIA, OFFICE

Type Test: ☐ Initial ☐ Annual ☐ Special				Test Date: 3-4-82	
Company: AMOCO PRODUCTION COMPANY			Connection: EL PASO NATURAL GAS COMP.		
Pool: ~~UNDESIGNATED~~ Dark Canyon Penn Morrow			Formation: MORROW		Unit:
Completion Date: 12-28-81	Total Depth: 10805.		Plug Back TD: 10280.	Elevation: 3831.	Farm or Lease Name: STATE IZ Com
Csg. Size: 5.500 / Wt.: 17.0 / d: 4.950	Set At: 10805.		Perforations: From 10224. To 10328.		Well No.: 1
Tbg. Size: 2.267 / Wt.: 4.7 / d: 1.995	Set At: 10016.		Perforations: From 0. To 0.		Unit: F Sec. 31 Twp. 23S Rge. 25E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: SINGLE			Packer Set At: 9915.		County: EDDY
Producing Thru: TUBING	Reservoir Temp. °F: 165 @ 10276.		Mean Annual Temp. °F: 60.0	Baro. Press. – P_a: 13.2	State: NEW MEXICO

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
10276.	10276.	0.588	0.88	0.77	0.	0.	4.0	FLANGE

	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					3051.	72.			46.0
1.	4.00 X 2.000	706.	5.3	87.	2928.	62.	0.	0.	0.7
2.	4.00 X 2.000	723.	12.2	91.	2857.	63.	0.	0.	0.7
3.	4.00 X 2.000	748.	27.0	77.	2685.	63.	0.	0.	0.7
4.	4.00 X 2.000	792.	51.8	65.	2387.	64.	0.	0.	0.7
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	19.83	61.68	719.2	0.9750	1.3038	1.0485	1631.
2.	19.83	94.97	736.2	0.9715	1.3038	1.0481	2500.
3.	19.83	143.47	761.2	0.9840	1.3038	1.0553	3852.
4.	19.83	204.31	805.2	0.9952	1.3038	1.0636	5593.
5.							

NO.	P_t	Temp. °R	T_r	Z
1.	1.06	547.	1.56	0.910
2.	1.09	551.	1.57	0.910
3.	1.13	537.	1.53	0.898
4.	1.19	525.	1.49	0.884
5.				

Gas Liquid Hydrocarbon Ratio 0. Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons 0. Deg.
Specific Gravity Separator Gas 0.588 XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX 0.588
Critical Pressure 676. P.S.I.A. 676. P.S.I.A.
Critical Temperature 351. R 351. R

P_c 3064.2 P_c^2 9389.

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1	8651.	2954.	8724.	665.
2	8238.	2898.	8400.	989.
3	7280.	2769.	7670.	1719.
4	5761.	2562.	6566.	2823.
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 3.3259$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2.5965$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 14,522$

Absolute Open Flow 14,522 Mcfd @ 15.025 Angle of Slope θ 51.6 Slope, n 0.794

Remarks:

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	John West	B. A. Hemmeline	L. W. Sheppard