NEW MEXICO OIL CONSERVATION COMMISSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

RECEIVED
OCT 27 1978
O. C. C.
ARTESIA, OFFICE

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 10-19-78	
Company: Champlin Petroleum Company		Connection: El Paso Natural Gas			
Pool: Carlsbad, East		Formation: Morrow		Unit	
Completion Date: 10-19-78	Total Depth: 11,800'	Plug Back TD: 11,751'	Elevation: 3133 KB	Farm or Lease Name: State "36"	
Csg. Size: 5½ / Wt.: 17 / d: 4.892 / Set At: 11,800		Perforations: From 11,540 To 11,657		Well No.: 2	
Tbg. Size: 2-7/8 / Wt.: 6.5 / d: 2.441 / Set At: 11,615		Perforations: From To		Unit: C / Sec.: 36 / Twp.: 21-S / Rge.: 27-E	
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single		Packer Set At: 11,615		County: Eddy	
Producing Thru: 2-7/8 tub.	Reservoir Temp. °F: 189 @ 11,800	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
11,599	11,599	0.64	5.65	0.53	0		4"	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	SI					2285	60	Pkr.		26.25
1.	4.026	x 0.75	476	25	50	2170	60	Pkr.		1.0
2.	4.026	x 0.75	476	49	50	2070	60	Pkr.		1.0
3.	4.026	x 0.75	476	72.2	50	1935	60	Pkr.		1.0
4.	4.026	x 0.75	490	100.0	50	1682	60	Pkr.		1.0
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	110.60	489.3	1.0098	1.25	1.046	389
2.	2.661	154.84	489.3	1.0098	1.25	1.046	545
3.	2.661	188.02	489.3	1.0098	1.25	1.046	662
4.	2.661	224.32	503.2	1.0098	1.25	1.0474	790
5.							

NO	P_t	Temp. °R	T_r	Z
1	0.70	510	1.42	0.914
2.	0.70	510	1.42	0.914
3.	0.70	510	1.42	0.914
4.	0.72	510	1.42	0.914
5.				

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
Specific Gravity Separator Gas 0.64 XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX 0.64
Critical Pressure 694 P.S.I.A. 694 P.S.I.A.
Critical Temperature 360 R 360 R

P_c 2298.2 P_c^2 5282

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		2185	4775	507
2		2085	4347	935
3		1950	3801	1480
4		1697	2880	2402
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 5.282$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2.298$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1250$

Absolute Open Flow 1250 Mcfd @ 15.025 Angle of Slope θ 63.4 Slope, n 0.500

Remarks: Calculated using Time - Share Computer Program using Stepwise Procedure

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	G. W. Sparkman	(See Remarks)	K. W. Lewis