NEW MEXICO OIL CONSERVATION COMMISSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

File
Form C-122
Revised 9-1-65

RECEIVED BY
APR 10 1984
O. C. D.
ARTESIA, OFFICE

Type Test: 4 POINT [X] Initial [ ] Annual [ ] Special				Test Date: 12-28-83	
Company: CHAMA PETROLEUM CO.			Connection: AIR NEW WELL		Unit: I
Pool			Formation: MORROW		
Completion Date: 12-28-83	Total Depth: 9400		Plug Back T.D.: 9400	Elevation: 3417.2	Farm or Lease Name: PARINO
Csg. Size: 4.500	Wt.: 10.5	d: 4.502	Set At: 9400	Perforations: From 9329 To 9378	Well No.: 1
Tbg. Size: 2.375	Wt.: 4.7	d: 1.995	Set At: 9241	Perforations: From 0 To 0	Unit: I; Sec.: 23; Twp.: 19S; Rge.: 25E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: SINGLE			Packer Set At: 9182		County: EDDY
Producing Thru: TUBING	Reservoir Temp. °F: 210 @ 9353		Mean Annual Temp. °F: 60.0	Baro. Press. – P_a: 13.2	State: NEW MEXICO
L: 9353	H: 9353	Gg: 0.631	% CO_2: 1.22	% N_2: 1.81	% H_2S: 0
Prover: 0	Meter Run: 4.0	Taps: FLANGE			

FLOW DATA					TUBING DATA		B.H.P. 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.	CHOKE	Duration of Flow
SI					3025		3791		741hr27min
1.	4.03 X 1.000	290	3.0	54	2886	60	3622	4/64	1.0
2.	4.03 X 1.000	320	9.5	85	2785	60	3493	6/64	1.0
3.	4.03 X 1.000	200	34.0	88	2592	60	3260	7.5/64	1.0
4.	4.03 X 1.000	305	68.5	91	2250	60	2834	8.5/64	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	4.75	30.16	303.2	1.0058	1.2589	1.0290	187.
2	4.75	56.26	333.2	0.9768	1.2589	1.0257	337.
3	4.75	85.14	213.2	0.9741	1.2589	1.0159	504.
4	4.75	147.64	318.2	0.9715	1.2589	1.0236	878.
5							

NO.	P_t	Temp. °R	T_r	Z
1	0.45	514.	1.42	0.944
2	0.49	545.	1.51	0.950
3	0.32	548.	1.52	0.969
4	0.47	551.	1.53	0.954
5				

Gas Liquid Hydrocarbon Ratio: 0 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: 0 Deg.
Specific Gravity Separator Gas: 0.631 XXXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX 0.631
Critical Pressure: 673. P.S.I.A. 673. P.S.I.A.
Critical Temperature: 361. R 361. R

P_c^2 3059.8 P_c^2 9362.

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1	13215.	2918.	8513.	849.
2	12293.	2810.	7896.	1466.
3	10714.	2617.	6850.	2513.
4	8107.	2270.	5155.	4208.
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.2250$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2.1576$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1895$

Post ID-2
4-13-84
Comp + BK

Absolute Open Flow: 1895. Mcfd @ 15.025 | Angle of Slope θ: 46.1 | Slope, n: 0.962

Remarks: BOTTOM HOLE PRESSURES MEASURED WITH AMERADA PRESSURE ELEMENTS.

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	DON BENNETT	RICHARD TOWNLEY	