NEW MEXICO OIL CONSERVATION COMMISSION

MULTIPOINT ~~,~~ ONE POINT BACK PRESSURE T FOR GAS WELL

Form C-122
Revised 9-1-65

RECEIVED BY
JUN 05 1985
O. C. D.
ARTESIA, OFFICE

C/ST File

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 5/23/85	
Company: MONSANTO ~~OIL~~ COMPANY			Connection: None		
Pool: ~~Wildcat~~			Formation: Wolfcamp		Unit
Completion Date: 5/21/85	Total Depth: 11420'		Plug Back TD: 10875'	Elevation: 3200' KB	Farm or Lease Name: Avalon Hills Com
Csg. Size: 5 1/2 / Wt.: 17 / d: / Set At: 11420			Perforations: From 9818 To 9830		Well No.: 1
Tbg. Size: 2 7/8 / Wt.: 6.5 / d: 2.441 / Set At: 9705			Perforations: From To		Unit: N / Sec.: 7 / Twp.: 21 / Rge.: 27
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single			Packer Set At: 9705		County: Eddy
Producing Thru: Tubing	Reservoir Temp. °F: 148 @ 9824		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
9824	9824	0.6	0	0	0		X	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					1800	70			72 hrs
1.	3 X 0.5	250	8	58	1525	58	0	0	1 hr
2.	3 X 0.5	265	15	60	1460	60	0	0	1 hr
3.	3 X 0.5	315	37	60	1360	60	0	0	1 hr
4	3 X 0.5	320	56	60	1110	60	0	0	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	1.18	45.89	263.2	1.0019	1.2910	1.0241	72
2.	1.18	64.60	278.2	1.0000	1.2910	1.0253	101
3.	1.18	110.20	328.2	1.0000	1.2910	1.0301	173
4.	1.18	136.60	333.3	1.0000	1.2910	1.0305	215
5.							

NO.	P_r	Temp. °R	T_r	Z
1.	0.39	518	1.44	0.953
2.	0.41	520	1.45	0.951
3.	0.49	520	1.45	0.942
4.	0.50	520	1.45	0.942
5.				

Gas Liquid Hydrocarbon Ratio 23600 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons 50 Deg.
Specific Gravity Separator Gas 0.6 XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX 0.718
Critical Pressure 673 P.S.I.A. 667 P.S.I.A.
Critical Temperature 359 R 395 R

P_c 1798.9 P_c^2 3236

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		1542	2379	857
2		1473	2171	1065
3		1372	1883	1353
4		1122	1259	1976
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.6373$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.6373$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 352$

Post ID-2
6-14-85
Pet Mor.
Comp Wilcp.

Absolute Open Flow 352 Mcfd @ 15.025 Angle of Slope θ 45 Slope, n 1

Remarks:

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Cecil Patterson	Hal Crabb, III	