NEW MEXICO OIL CONSERVATION COMMISSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 12-1-78

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 4-13-78	
Company: Amoco Production Company		Connection: Northern Natural Gas Company			
Pool: Jalmat		Formation: Yates			Unit
Completion Date: 1-24-78	Total Depth: 3405	Plug Back TD: 3405	Elevation: 3313		Farm or Lease Name: Myers B Federal
Csg. Size: 5.500 / Wt.: 14.0 / d: 5.012 / Set At: 3405		Perforations: From 3054 To 3190			Well No.: 30
Tbg. Size: 2.375 / Wt.: 4.6 / d: 1.995 / Set At: 3042		Perforations: From 0 To 0			Unit: E / Sec.: 5 / Twp.: 24 S / Rge.: 37 E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single		Packer Set At: 0			County: Lea
Producing Thru: Tubing	Reservoir Temp. °F: 86 @ 3122	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
3122	3122	.702	2.10	1.52	0	0	4.0	Pipe

	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					175	74			72.0
1.	4.03 X 1.500	56	5.0	66	168	75	0	0	1.0
2.	4.03 X 1.500	57	10.0	68	163	77	0	0	1.0
3.	4.03 X 1.500	58	15.5	69	154	78	0	0	1.0
4.	4.03 X 1.500	59	30.5	65	136	78	0	0	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	11.82	18.60	69.2	0.9943	1.1935	1.0072	263
2.	11.82	26.50	70.2	0.9924	1.1935	1.0072	374
3	11.82	33.22	71.2	0.9915	1.1935	1.0072	468
4.	11.82	46.93	72.2	0.9952	1.1935	1.0075	664
5.							

NO.	P_t	Temp. °R	T_t	Z
1.	0.10	526	1.37	.986
2.	0.10	528	1.38	.986
3.	0.11	529	1.38	.986
4.	0.11	525	1.37	.985
5.				

Gas Liquid Hydrocarbon Ratio 0 Mcf/Bbl.
A.P.I. Gravity of Liquid Hydrocarbons 0 Deg.

Specific Gravity Separator Gas	0.702	XXXXXXXXX
Specific Gravity Flowing Fluid	XXXXX	0.702
Critical Pressure	674 P.S.I.A.	674 P.S.I.A.
Critical Temperature	383 R	383 R

P_c 187.9 P_c^2 35

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1	33	183	34	2
2	31	181	33	3
3	28	174	30	5
4	22	166	27	8
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 4.4861$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2.5403$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1686$

Absolute Open Flow 1686 Mcfd @ 15.025 Angle of Slope θ 58.2 Slope, n .621

Remarks:

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
John W. Runyan	John West Engineering	CJT (Amoco)	RMB (Amoco)