NEW MEXICO OIL CONSERVATION COMMSSION

MULTIPOINT AN ONE POINT BACK PRESSURE TEST R GAS WELL

Form C-122
Revised 9-1-65

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 5-10-78	
Company: Amoco Production Company		Connection: Northern Natural Gas Company			
Pool: Eumont		Formation: Queen		Unit	
Completion Date: 12-16-77	Total Depth: 3700.	Plug Back TD: 3700.	Elevation: 3521.	Farm or Lease Name: State C Tract 11	
Csg. Size: 5.500 / Wt.: 14.0 / d: 5.012 / Set At: 3700.		Perforations: From 3505. To 3535.		Well No.: 6	
Tbg. Size: 2.375 / Wt.: 4.6 / d: 1.995 / Set At: 3540.		Perforations: From 0. To 0.		Unit: 2 / Sec.: 21S / Twp.: 36E / Rge.:	
Type Well – Single – Bradenhead – G.C. or G.O. Multiple: Single		Packer Set At: 0.		County: Lea	
Producing Thru: Tubing	Reservoir Temp. °F: 87. @ 3520.	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
3520.	3520.	0.706	1.88	1.50	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					205.	68.			24.0
1.	4.00 x 2.000	35.	2.5	46.	172.	63.	0.	0.	1.0
2.	4.00 x 2.000	35.	5.0	46.	139.	60.	0.	0.	1.0
3.	4.00 x 2.000	35.	7.0	46.	84.	60.	0.	0.	1.0
4.	4.00 x 2.000	35.	6.0	45.	74.	58.	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	19.83	10.98	48.2	1.0137	1.1902	1.0057	264.
2.	19.83	15.52	48.2	1.0137	1.1902	1.0057	374.
3	19.83	18.37	48.2	1.0137	1.1902	1.0057	442.
4.	19.83	17.01	48.2	1.0147	1.1902	1.0058	410.
5.							

NO.	P_t	Temp. °R	T_t	Z
1.	0.07	506.	1.32	0.989
2.	0.07	506.	1.32	0.989
3.	0.07	506.	1.32	0.989
4.	0.07	505.	1.31	0.989
5.				

Gas Liquid Hydrocarbon Ratio: 0. Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: 0. Deg.
Specific Gravity Separator Gas: 0.706 (XXXXXXXXX)
Specific Gravity Flowing Fluid: XXXXX 0.706
Critical Pressure: 673. P.S.I.A. 673. P.S.I.A.
Critical Temperature: 384. R 384. R

P_c 218.0 P_c^2 48.

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1	34.	188.	35.	12.
2	23.	158.	25.	22.
3	9.	111.	12.	35.
4	8.	100.	10.	38.
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.3468$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.1614$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 513.$

Absolute Open Flow: 513. Mcfd @ 15.025 | Angle of Slope θ: 63.3 | Slope, n: 0.503

Remarks:

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