NEW MEXICO OIL CONSERVATION COMMSSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test: [X] Initial [ ] Annual [ ] Special			Test Date: 7-4-87		
Company: Amoco Production Company		Connection:			
Pool: Bravo Dome		Formation: Tubb		Unit: BDCDGU	
Completion Date: 8-19-74	Total Depth: 2670	Plug Back TD: 2417	Elevation: 4750	Farm or Lease Name:	
Csg. Size: 4.50 / Wt.: 9.5 / d: 4.1 / Set At: 2670		Perforations: From 2186 To 2404		Well No.: 2034-3610	
Tbg. Size: 2.375 / Wt.: 4.6 / d: 1.995 / Set At: 2176		Perforations: From To		Unit: 0 / Sec.: 36 / Twp.: 20 / Rge.: 34	
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single		Packer Set At: 2146		County: Union	
Producing Thru: Tubing	Reservoir Temp. °F: 90	Mean Annual Temp. °F: 50	Baro. Press. – P_a: 12.25	State: New Mexico	
L:	H:	Gg:	% CO_2: 100	% N_2: 0	% H_2S: 0
Prover:	Meter Run: 4.0	Taps: Flange			

FLOW DATA / TUBING DATA / CASING DATA

NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	Tubing Press. p.s.i.g.	Tubing Temp. °F	Casing Press. p.s.i.g.	Casing Temp. °F	Duration of Flow
SI							315		0		24 hrs
1.	4.026	x	1.875	194	41	58	192	58	0		24 hrs
2.	4.026	x	1.875	207	33	58	204	58	0		24 hrs
3.	4.026	x	1.875	223	24	61	220	61	0		24 hrs
4.	4.026	x	1.875	234	19	59	230	59	0		24 hrs
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.							1354
3.							1273
4.							1151
5.							1018

NO.	P_t	Temp. °R	T_t	Z
1.				
2.				
3.				
4.				
5.				

Gas Liquid Hydrocarbon Ratio 0 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons ____ Deg.
Specific Gravity Separator Gas 1.529 XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX
Critical Pressure 1072 P.S.I.A. ____ P.S.I.A.
Critical Temperature 496 R ____ R

P_c 327.25 P_c^2 107,092

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		204.25	41,718	65,374
2		216.25	46,764	60,328
3		232.25	53,940	53,152
4		242.25	58,685	48,407
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.6381$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.4608$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1978$

Absolute Open Flow 1978 Mcfd @ 15.025 | Angle of Slope θ 37.5219 | Slope, n 0.7679

Remarks: Test was run from a low flowing tubing pressure to a high flowing tubing pressure to minimize liquid loading effects.

Approved by Commission:	Conducted By:	Calculated By:	Checked By:
	RANDY MAHANNAH	RICHARD ROETH	