NEW EXICO OIL CONSERVATION COMMSSI N

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: 12/28/79	
Company: Amoco Production Company		Connection: Gas Company of New Mexico			
Pool: WEST TONTO R-6449 Buffalo Penn		Formation: PENN		Unit	
Completion Date: 06/05/79	Total Depth: 13689.	Plug Back TD: 13640.	Elevation: 3675.	Farm or Lease Name: Bondurant Federal	
Csg. Size: 5.500 / Wt.: 20.0 / d: 4.778 / Set At: 13689.		Perforations: From 13326. To 13341.		Well No.: 5	
Tbg. Size: 2.375 / Wt.: 4.7 / d: 1.995 / Set At: 13178.		Perforations: From 0. To 0.		Unit: J / Sec.: 12 / Twp.: 19S / Rge.: 32E	
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single		Packer Set At: 13112.		County: Lea	
Producing Thru: Tubing	Reservoir Temp. °F: 956 13334.	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
13334.	13334.	0.628	0.60	0.48	0.	0.	2.1	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					2670.	2670.			46.0
1.	2.07 x 1.500	450.	9.0	53.	1442.	51.	0.	0.	1.0
2.	2.07 x 1.500	440.	4.0	65.	1296.	54.	0.	0.	1.0
3.	2.07 x 1.500	450.	8.4	70.	1090.	54.	0.	0.	1.0
4.	2.07 x 1.500	475.	8.4	71.	850.	54.	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	12.76	64.57	463.2	1.0068	1.2619	1.0460	1095.
2.	12.76	42.58	453.2	0.9952	1.2619	1.0419	711.
3.	12.76	62.41	463.2	0.9905	1.2619	1.0415	1037.
4.	12.76	64.08	488.2	0.9896	1.2619	1.0434	1065.
5.							

NO.	P_r	Temp. °R	T_r	Z
1	0.69	513.	1.41	0.914
2.	0.67	525.	1.44	0.921
3.	0.69	530.	1.45	0.922
4.	0.73	531.	1.46	0.919
5.				

Gas Liquid Hydrocarbon Ratio 35.3 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons 56.6 Deg.
Specific Gravity Separator Gas 0.628 XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX 0.703
Critical Pressure 673. P.S.I.A. 669. P.S.I.A.
Critical Temperature 365. R 389. R

P_c 2547.0 P_c^2 6487.

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1	2118.	1578.	2489.	3998.
2	1714.	1368.	1872.	4616.
3	1217.	1239.	1534.	4953.
4	745.	1036.	1072.	5415.
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.6226$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.2753$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1396.$

Absolute Open Flow 1396. Mcfd @ 15.025 Angle of Slope θ 63.3 Slope, n 0.503

Remarks:

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
John W. Runyan	John West Engrg.	W. D. Magness	R. Whitten

O+4 NMOCD - H 1-Hou 1-Susp 1-WDM 1-DLB 1-BD