NEW MEXICO OIL CONSERVATION COMMISSION

MULTIPOINT AND [illegible] POINT BACK PRESSURE TEST F GAS WELL

Form C-122
Revised 4-1-65

RECEIVED

MAR 27 1979

O. C. C.
ARTESIA, OFFICE

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 3-14-79	
Company: Amoco Production Company			Connection: El Paso Natural Gas Company		
Pool: ~~Wildcat~~ S. Culebra Bluff Atoka			Formation: ~~[redacted]~~ ATOKA		Unit:
Completion Date: 10-24-78	Total Depth: 13,187		Plug Back TD: 12,165	Elevation: 3,022	Farm or Lease Name: Ingalls Gas Com
Csg. Size: 5.000 / Wt.: 18.0 / d: 4.276 / Set At: 13,187			Perforations: From 11,395 To 11,400		Well No.: 1
Tbg. Size: 2.375 / Wt.: 4.7 / d: 1.995 / Set At: 11,342			Perforations: From 11,698 To 11,710		Unit: G / Sec.: 22 / Twp.: 23S / Rge.: 28E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single			Packer Set At: 10,895		County: Eddy
Producing Thru: Tubing	Reservoir Temp. °F: 205 @ 11,552	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
11,552	11,552	0.594	0.51	1.24	0	0	4.0	Flange

NO.	FLOW DATA: Prover Line Size X Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	TUBING DATA: Press. p.s.i.g.	Temp. °F	CASING DATA: Press. p.s.i.g.	Temp. °F	Duration of Flow
SI					2345	60			47.0
1.	4.03 x 1.250	611	6.2	65	2100	51	0	0	1.0
2.	4.03 x 1.250	611	10.2	71	1820	53	0	0	1.0
3.	4.03 x 1.250	611	13.7	79	1380	54	0	0	1.0
4.	4.03 x 1.250	611	12.7	83	891	57	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	7.47	62.46	624.2	0.9952	1.2975	1.0504	633
2.	7.47	79.95	624.2	0.9896	1.2975	1.0482	804
3.	7.47	92.44	624.2	0.9822	1.2975	1.0455	920
4.	7.47	89.21	624.2	0.9786	1.2975	1.0442	883
5.							

NO.	P_t	Temp. °R	T_t	Z
1.	0.93	525	1.49	0.906
2.	0.93	5(4)		
3.				
4.	0.93	539	1.53	0.915
5.	0.93	543	1.54	0.917

Gas Liquid Hydrocarbon Ratio: 0 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: 0 Deg.
Specific Gravity Separator Gas: 0.594 XXXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX
Critical Pressure: 673 P.S.I.A. 673 P.S.I.A.
Critical Temperature: 352 R 352 R

P_c 2358.2 P_c^2 5561

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1	4466	2124	4511	1050
2	3361	1841	3390	2172
3	1941	1399	1958	3603
4	818	908	824	4737
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.5433$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.2437$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1144$

Absolute Open Flow: 1144 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	CCW	RMB