NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

C/SF
C-122

RECEIVED
MAY - 5 1982
O. C. D.
ARTESIA, OFFICE

Type Test: [X] Initial [ ] Annual [ ] Special — Test Date: 4-30-82

Company: Amoco Production Company	Connection: El Paso Natural Gas Comp		
Pool: Happy Valley	Formation: Morrow	Unit	
Completion Date: 1-11-82	Total Depth: 11539	Plug Back TD: 11500	Elevation: 3369
Farm or Lease Name: Federal CN Com.			
Csg. Size: 5.500 / Wt.: 17.0 / d: 4.778 / Set At: 11589	Perforations: From 11360 To 11370	Well No.: 1	
Tbg. Size: 2.375 / Wt.: 4.7 / d: 1.995 / Set At: 11371	Perforations: From 0 To 0	Unit: N Sec.: 20 Twp.: 22S Rge.: 26E	
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single	Packer Set At: 11253	County: Eddy	
Producing Thru: Tubing	Reservoir Temp. °F: 180 @ 11365	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
11365	11365	0.595	1.00	0.23	0	0	6.0	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					2960	61			72.0
1.	6.00 x 2.000	449	7.3	70	2913	63	0	0	0.7
2.	6.00 x 2.000	511	15.2	78	2870	63	0	0	0.7
3.	6.00 x 2.000	555	44.9	82	2735	64	0	0	0.7
4.	6.00 x 2.000	563	84.6	81	2535	67	0	0	0.7
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	19.17	58.04	462.1	0.9905	1.2963	1.0365	1481
2.	19.17	89.31	524.4	0.9831	1.2963	1.0392	2267
3.	19.17	159.71	568.2	0.9795	1.2963	1.0413	4048
4.	19.17	220.74	575.7	0.9804	1.2963	1.0421	5604
5.							

NO.	P_r	Temp. °R	T_r	Z
1.	0.68	530	1.49	0.931
2.	0.77	538	1.52	0.926
3.	0.84	542	1.53	0.922
4.	0.85	541	1.53	0.921
5.				

Gas Liquid Hydrocarbon Ratio 0 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons 0 Deg.
Specific Gravity Separator Gas 0.595 XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX 0.595
Critical Pressure 677 P.S.I.A. 677 P.S.I.A.
Critical Temperature 355 R 355 R

P_c 2973.2 P_c^2 8840

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1	8563	2928	8575	264
2	8313	2891	8358	481
3	7553	2778	7718	1122
4	6493	2609	6807	2032
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 4.3494$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2.5976$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 14558$

Absolute Open Flow 14558 Mcfd @ 15.025 Angle of Slope θ 57.0 Slope, n 0.649

Remarks:

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	John West	B. A. Wagner	L. W. Sheppard