

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

Form C-122  
Revised 9-1-65

Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special		Test Date	
Company BTA OIL PRODUCERS		Connection EL PASO NATURAL GAS COMPANY	
Pool Antelope Ridge		Formation Morrow	
Completion Date 12-4-80	Total Depth 13,543'	Plug Back TD 12,942'	Elevation 3366' GR
Farm or Lease Name Ridge, 8006 JV-P		Well No. 1	
Csg. Size	Wt.	d	Set At
Perforations: From To		Unit Sec. Twp. Rge.	
Tbg. Size 3-1/2"		Wt. 10.3#	
Perforations: From 12,866' To 12,869'		Unit Sec. Twp. Rge. J 14 23 34	
Type Well - Single - Brdhead - G.G. or G.O. Multiple Single		Packer Set At 12,604'	
Producing Thru Tbg.		Reservoir Temp. °F 191 @ 12869	
Mean Annual Temp. °F --		Baro. Press. - P <sub>a</sub> 13.2	
State New Mexico		County Lea	
L 12869	H 12869	G <sub>g</sub> 0.6386	% CO <sub>2</sub> --
% N <sub>2</sub> --	% H <sub>2</sub> S --	Prover	Meter Run X
Taps F			

FLOW DATA

NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h <sub>w</sub>	Temp. °F	TUBING DATA		CASING DATA		Duration of Flow
							Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
SI							2895	60	Pkr		
1.	2.067 x 0.875			610	5	62	2840	60			1 hr.
2.	2.067 x 0.875			615	16	72	2740	60			1 hr.
3.	2.067 x 0.875			615	41	77	2551	60			1 hr.
4.	2.067 x 0.875			620	92	68	2192	60			1 hr.
5.											

RATE OF FLOW CALCULATIONS

NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P <sub>m</sub>	Flow Temp. Factor Ft.	Gravity Factor F <sub>g</sub>	Super Compress. Factor, F <sub>pv</sub>	Rate of Flow Q, Mcfd
1	3.729	55.82	623.2	0.9981	1.2514	1.0642	277
2	3.729	100.25	628.2	0.9887	1.2514	1.0594	490
3	3.729	160.49	628.2	0.9840	1.2514	1.0582	780
4	3.729	241.36	633.2	0.9924	1.2514	1.0612	1186
5.							

NO.	R <sub>t</sub>	Temp. °R	T <sub>r</sub>	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1.	0.93	522	1.40	0.883	55.3	51.4	0.6386	XXXXXX	670	372
2.	0.94	532	1.43	0.891						
3.	0.94	537	1.44	0.894						
4.	0.94	528	1.42	0.888						
5.										

NO.	P <sub>i</sub> <sup>2</sup>	P <sub>w</sub>	P <sub>e</sub> <sup>2</sup>	P <sub>e</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>
1	8140.7		8141.8	315.8
2	7580.1		7583.2	874.4
3	6575.1		6582.9	1874.7
4	4862.9		4880.5	3577.1
5				

P<sub>c</sub> 2908.2    P<sub>c</sub><sup>2</sup> 8457.6

(1)  $\frac{P_c^2}{P_c^2 - P_w^2} = 2.3644$     (2)  $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.6744$

AOF = Q  $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1986$

Absolute Open Flow 1,986 Mcfd @ 15.025.    Angle of Slope  $\phi$  59    Slope, n 0.599

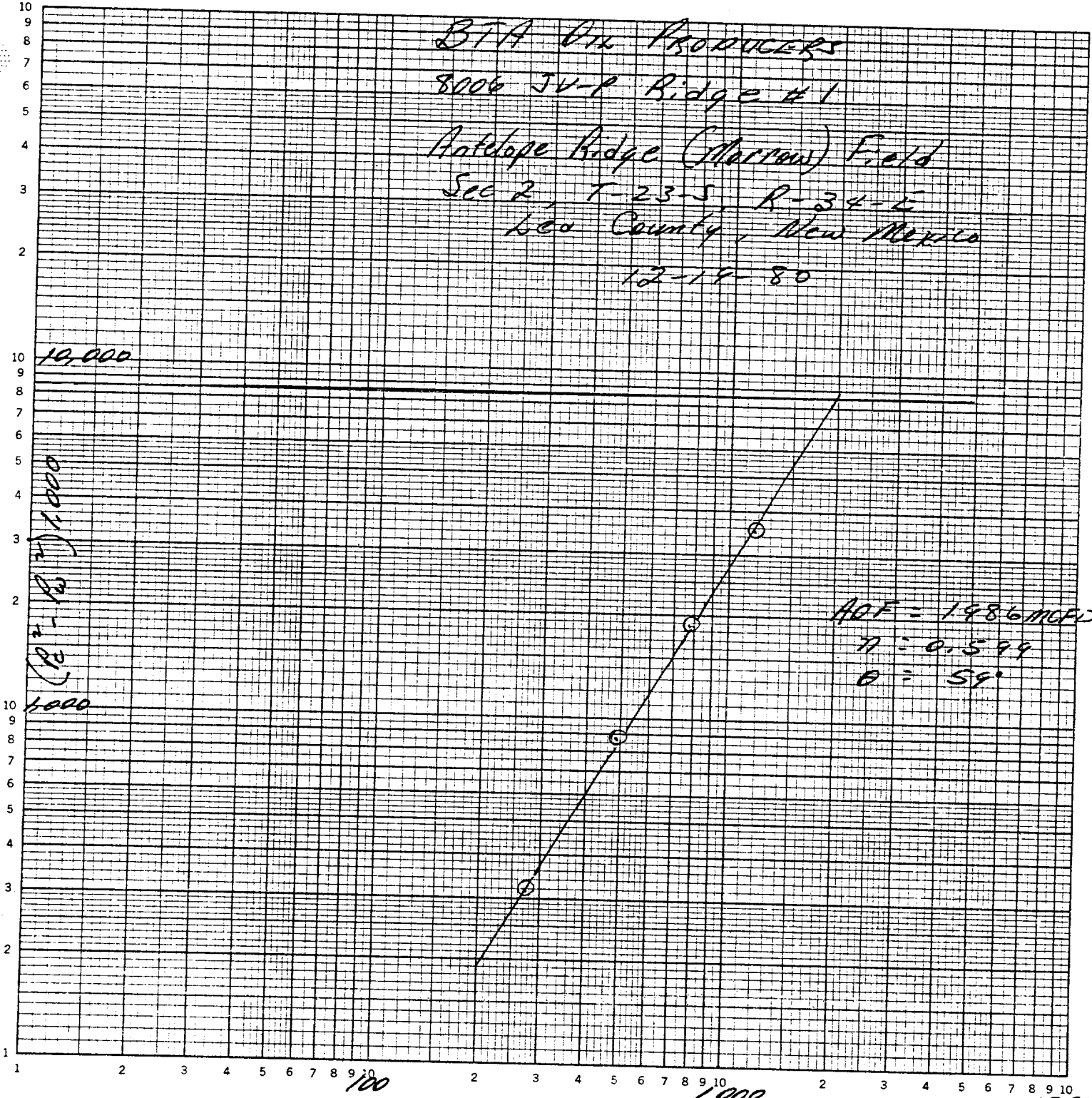
Remarks: \_\_\_\_\_

Approved By Commission: \_\_\_\_\_    Conducted By: *C. V. Swigg*    Calculated By: *C. V. Swigg*    Checked By: \_\_\_\_\_

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K+S LOGARITHMIC 3 X 3 CYCLES  
KEUFFEL & ESSER CO. MADE IN USA

BTA Oil Producers  
 8006 JV-R Ridge #1  
 Antelope Ridge (Narrow) Field  
 Sec 2, T-23-S, R-34-E  
 Lea County, New Mexico  
 12-18-80



ADP = 1986 mcfD  
 $n = 0.599$   
 $\theta = 59^\circ$

Rate (mcfD)

10,000