

WILSON

SERVICE COMPANY

TEMPERATURE SURVEY

COMPANY El Paso Natural Gas Co.
 WELL 28A LEASE San Juan 28-6
 COUNTY San Juan STATE New Mexico
 SEC. NW 18 TWP. 28 RGE. 6

APPROX. TOP CEMENT

Survey Begins at 1000' Ft. Ends at 3653' Ft.
 Approx. Fill-Up 1
 Log Measured From KB Run Dist. 3

Casing Size	Casing Depth	Diam. of Hole	Depth
7" from	to	from <u>8 3/4"</u>	to
from	to	from	to

Date of Cementing 7/5/80 Time 1:45 PM

Date of Survey 7/5/80 Time 8:00 PM

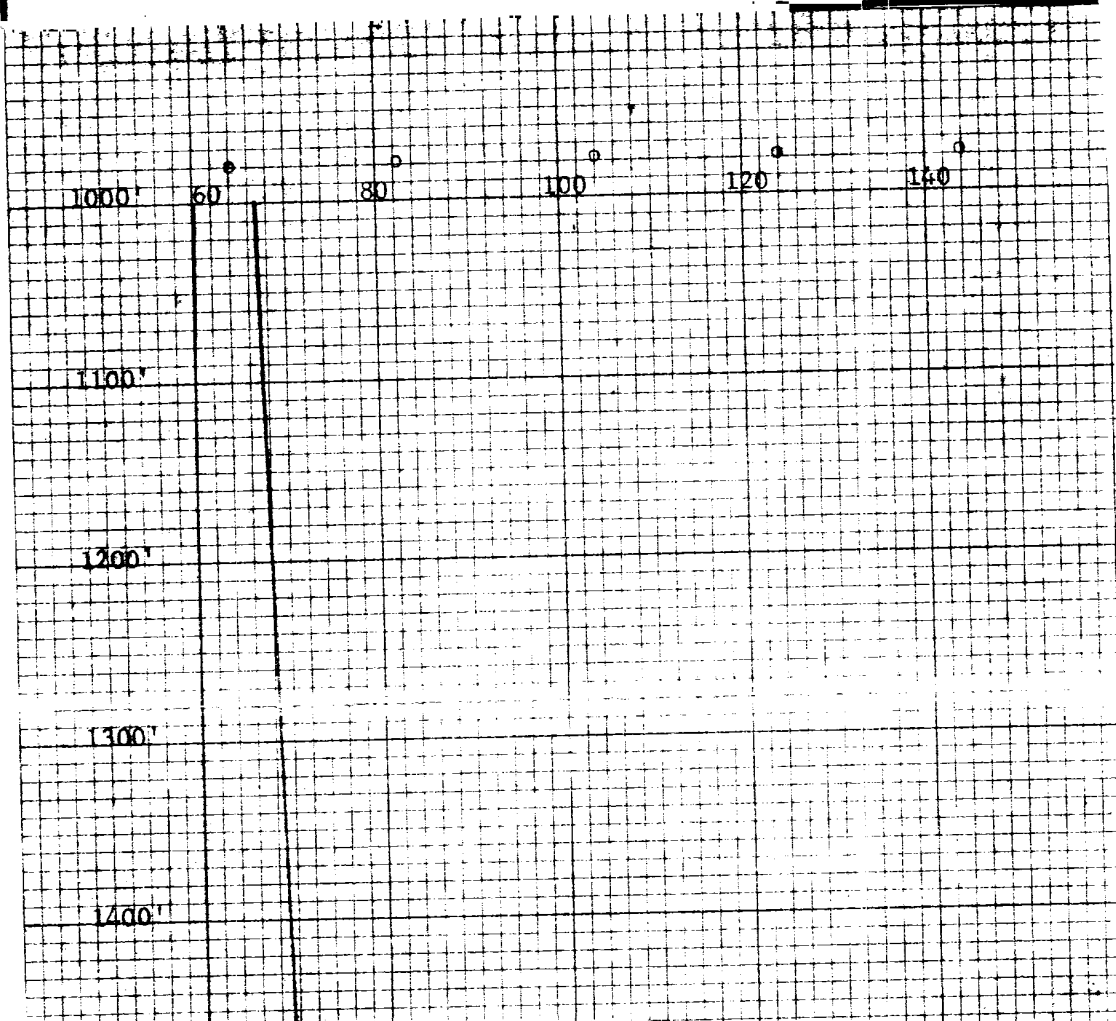
Amount of Cement 90 Sks Class B 65/35 Poz w/1/2 FL³ Perlite, 6% Gel
2% CACL + 100 Sks Class B w/2% CACL 1/2 CuFT Perlite.

Recorded by Ebert Witnessed by

REMARKS OR OTHER DATA

Ojo Alamo 2528' & Baffle 3656'.

TEMPERATURE IN DEGREES FAHRENHEIT



1500'

1600'

1700'

1800'

1900'

2000'

Anomaly 2000'

2100'

2200'

2300'

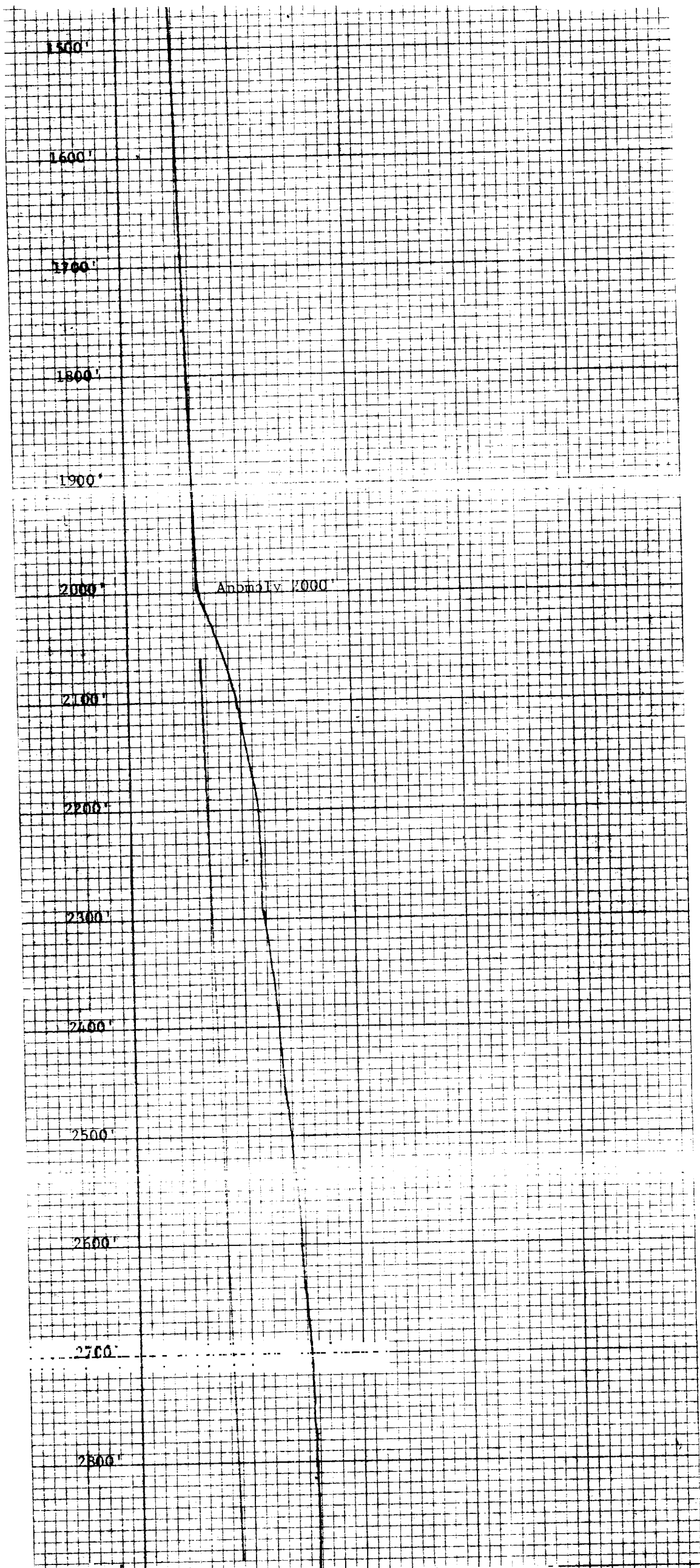
2400'

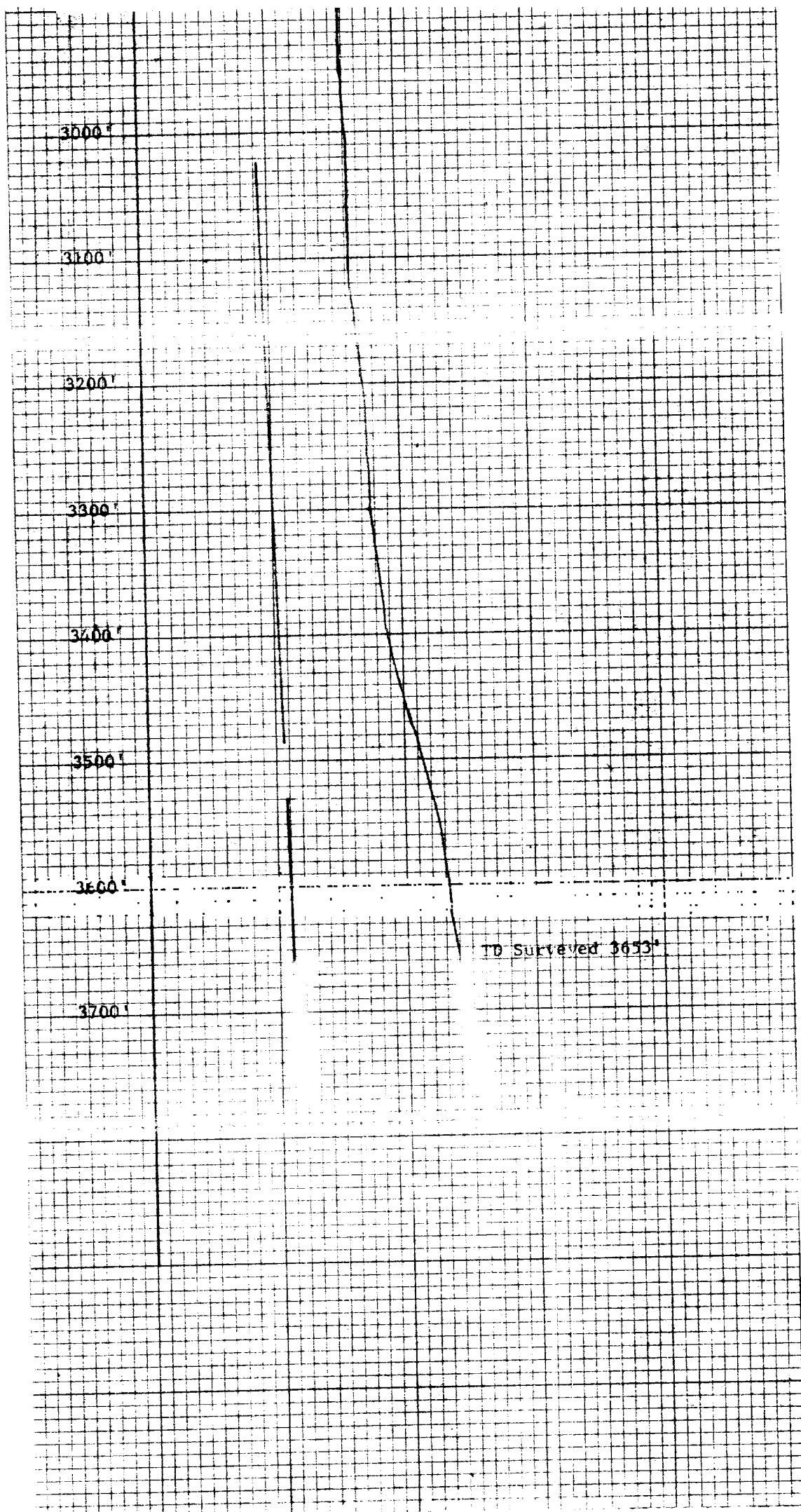
2500'

2600'

2700'

2800'





OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

Form C-122
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 2-17-81	
Company El Paso Natural Gas Company			Connection El Paso Natural Gas Company		
Pool Blanco			Formation Mesa Verde		Unit San Juan 28-6
Completion Date 2-8-81		Total Depth 6050		Plug Back TD 6033	Elevation 6617 G.L.
Form or Lease Name San Juan 28-6 Unit					
Csq. Size 7.000	Wt. 20	d 6.456	Set At 3746	Perforations: From *5067 To 5954	
Well No. #28A					
Tbg. Size 2.375	Wt. 4.7	d 1.995	Set At 5918	Perforations: From To	
Unit Sec. Twp. Rge. D 18 28 6					
Type Well - Single - Bradenhead - G.G. or G.O. Multiple G. G. Dual				Packer Set At 3618	County Rio Arriba
Producing Thru Tbg.		Reservoir Temp. *F P		Mean Annual Temp. *F	Baro. Press. - P _a 12
State New Mexico					
L	H	Gg 0.650	% CO ₂	% N ₂	% H ₂ S
Prover		Meter Run		Taps	

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
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
SI							588				9 Days
1. Choke	0.750		181		61						3 Hours
2.											
3.											
4.											
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super- Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	12.365			193	0.9990	0.9608	2334
2.							
3.							
4.							
5.							

NO.	P _t	Temp. *R	T _t	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.					Specific Gravity Separator Gas _____ X X X X X X X X
3.					Specific Gravity Flowing Fluid _____ X X X X X
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature _____ R _____ R

NO.	P _t	P _w	P _t ²	P _w ²	P _t ² - P _w ²
1	372.9	392	153664	206336	
2					
3					
4					
5					

(1) $\frac{P_c^2}{P_t^2 - P_w^2} = 1.7447$

AOF = Q $\left[\frac{P_t^2}{P_c^2 - P_w^2} \right]^n = 3543$

(2) $\left[\frac{P_t^2}{P_c^2 - P_w^2} \right]^n = 1.5181$

Absolute Open Flow 3543	Mcf @ 15.025	Angle of Slope θ _____	Slope, n 0.75
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Remarks: *4.500" Liner From 3608 to 6050. Vented 295 MCF Gas During The Test

Approved By Division	Conducted By: John Easton	Calculated By: H. E. McAnally	Checked By:
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