

Casing perms. _____ Bottom choke _____ Surf. temp _____ °F Ticket No. 176086
 Gas gravity _____ Oil gravity _____ GOR _____
 Spec. gravity _____ Chlorides _____ ppm Res. _____ @ _____ °F

INDICATE TYPE AND SIZE OF GAS MEASURING DEVICE USED _____

Date Time	a.m. p.m.	Choke Size	Surface Pressure psi	Gas Rate MCF	Liquid Rate BPD	Remarks
0410						Time called out, ready at 0530.
0530						On location, rig pulling drill pipe for DST #1.
0630						Rig got to drill collars and rig broke down.
0720						Rig finished pulling drill pipe.
0750						Picked up and made up tool.
0810						Tool through table.
0815						Rig started drill pipe.
0941						Tool on bottom.
0945						Tool opened with a weak blow that died in 20 minutes.
1015						Closed tool.
1115						Opened tool with no blow for 7 minutes.
1122						Flushed tool.
1125						Tool opened with no blow.
1225						Closed tool.
1325						Tool off bottom.
1500						Tool back through table.
1530						Break down tool and read charts.
1600						Job completed.

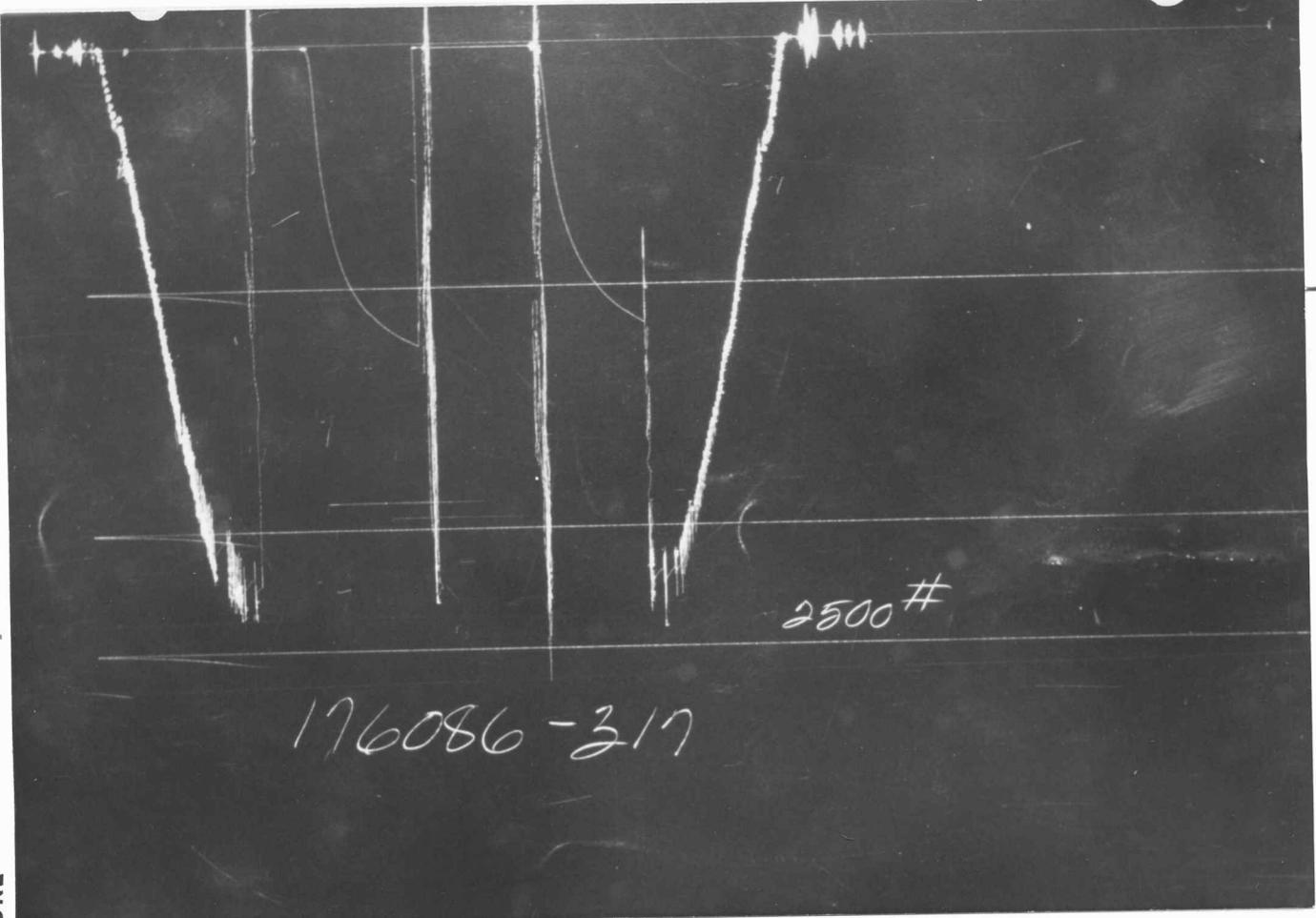
Gauge No. 317		Depth 4339		Clock No. 11657		12 hour		Ticket No. 176086	
First Flow Period		Closed In Pressure		Second Flow Period		Closed In Pressure		Third Flow Period	
Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t + \theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t + \theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t + \theta}{\theta}$
0	.0000	10	.0000	11	.0000	16	.0000	18	
1	.2120	11	.0470**	377	.0570	16) BB	.0267	150	
2			.0739	636	.0640	18) AB	.0533	464	
3			.1007	794	.4850	18	.0800	652	
4			.1276	896			.1066	761	
5			.1544	970			.1333	843	
6			.1813	1027			.1600	905	
7			.2081	1070			.1866	955	
8			.2350	1103			.2133	995	
9			.2618	1130			.2399	1028	
10			.2887	1156			.2666	1058	
11			.3155	1177			.2933	1084	
12			.3424	1196			.3199	1105	
13			.3692	1212			.3466	1123	
14			.3961	1227			.3732	1142	
15			.4230	1239			.4000	1158	

Gauge No. 195		Depth 4362		Clock No. 11647		12 hour		
First Flow Period		Closed In Pressure		Second Flow Period		Closed In Pressure		
Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t + \theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t + \theta}{\theta}$	PSIG Temp. Corr.	
0	.0000	47	.0000	31	.0000	70	.0000	16
1	.0479*	31	.0446**	490	.0520	51) BB	.0270	73
2	.0821	31	.0700	682	.0630	16) AB	.0540	329
3	.1163	31	.0955	803	.0842	17	.0810	582
4	.1505	31	.1209	909	.1620	17	.1080	716
5	.1847	31	.1464	976	.2397	16	.1350	809
6	.2190	31	.1719	1028	.3175	15	.1620	887
7			.1973	1066	.3952	15	.1890	934
8			.2228	1099	.4730	16	.2160	975
9			.2482	1122			.2430	1010
10			.2737	1145			.2700	1046
11			.2992	1165			.2970	1072
12			.3246	1181			.3240	1093
13			.3501	1197			.3510	1109
14			.3755	1210			.3780	1127
15			.4010	1222			.4050	1117-0
Reading Interval		5	4	4	12	4		Minutes

REMARKS: * - first interval is equal to 7 minutes, ** - 7 minutes, *** - 13 minutes, Q - Questionable.
 BB - Before Bypassing. AB - After Bypassing.

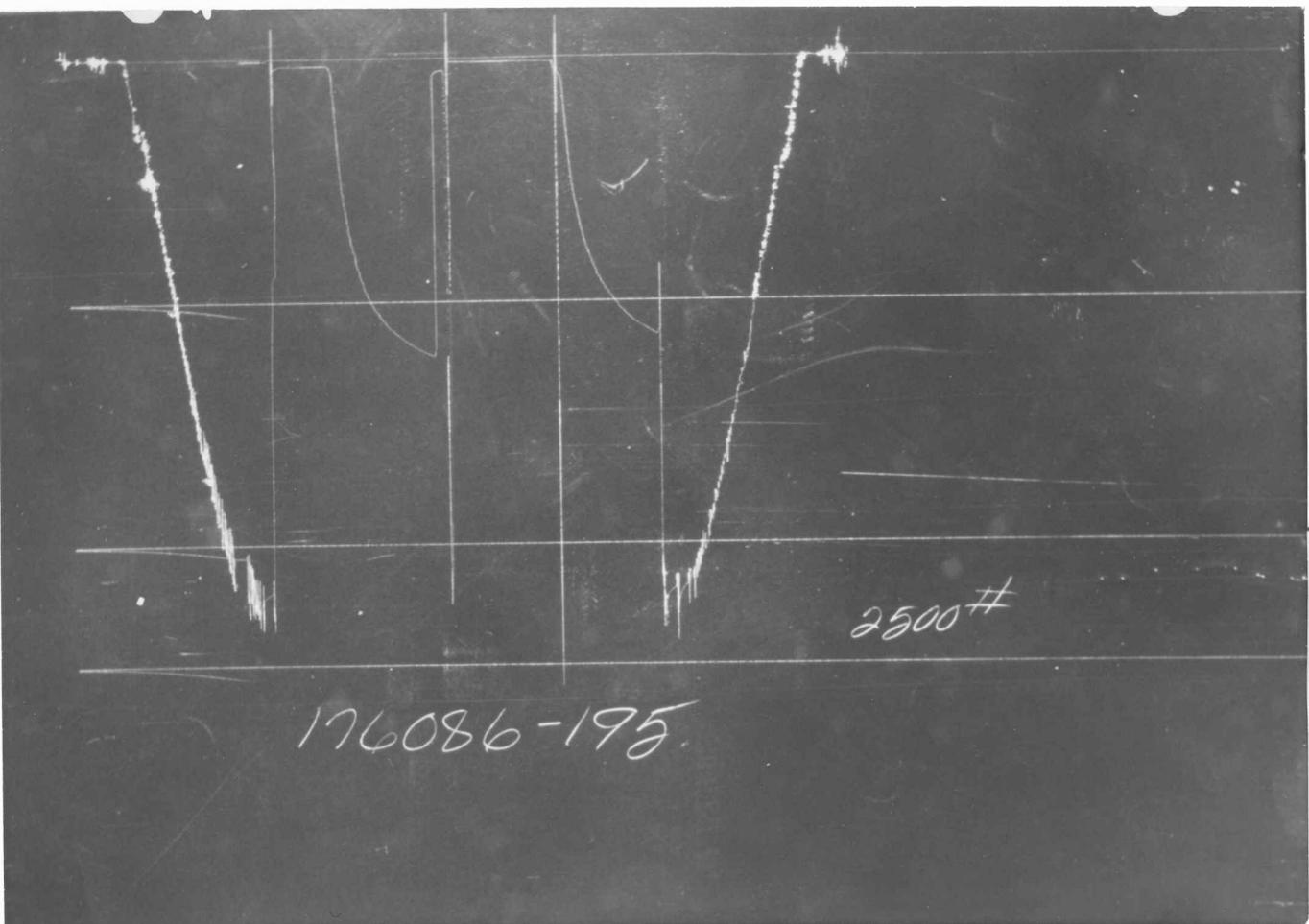


	O. D.	I. D.	LENGTH	DEPTH
Drill Pipe or Tubing				
Reversing Sub	6"	3"	1'	4208'
Water Cushion Valve				
Drill Pipe	4.5"	3.826"	2863'	
Drill Collars	4.5"	2.764"	1464'	Weight Pipe
Handling Sub & Choke Assembly				
Dual CIP Valve	5"	.87"	6.05'	4328'
Dual CIP Sampler				
Hydro-Spring Tester	5"	.75"	5'	4334'
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	3.75"	4'	4339'
Hydraulic Jar				
VR Safety Joint	5"	1"	2.85'	
Pressure Equalizing Crossover				
Packer Assembly	6.75"	1.53"	5.85'	4350'
Distributor				
Packer Assembly	6.75"	1.53"	5.85'	4356'
Flush Joint Anchor	5"	3.84"	3'	
Pressure Equalizing Tube				
Blanked-Off B.T. Running Case				
Drill Collars				
Anchor Pipe Safety Joint				
Packer Assembly				
Distributor				
Packer Assembly				
Anchor Pipe Safety Joint				
Side Wall Anchor				
Drill Collars				
XXXXXXXXXXXX HT. = 500	5"	3.75"	1.50'	4361'
Blanked-Off B.T. Running Case	5"	2.75"	4'	4362'
Total Depth				4366'



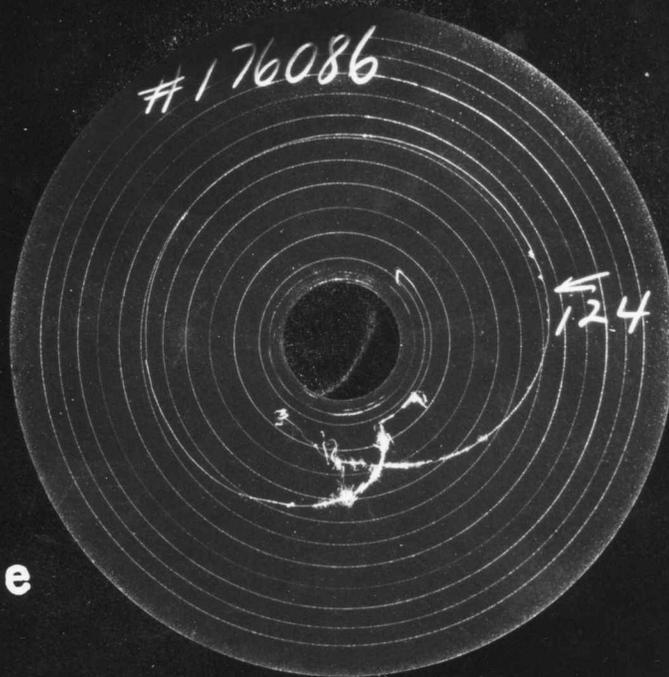
↑
PRESSURE
↓

← TIME →



Each Horizontal Line Equal to 1000 p.s.i.

TEMPERATURE RECORDER CHART



10° each circle

OF_4	= Theoretical Open Flow Potential with/Damage Removed Min.	MCF/D
P_s	= Extrapolated Static Pressure	Psig.
P_f	= Final Flow Pressure	Psig.
P_{or}	= Potentiometric Surface (Fresh Water *)	Feet
Q	= Average Adjusted Production Rate During Test	bbls/day
Q_1	= Theoretical Production w/Damage Removed	bbls/day
Q_g	= Measured Gas Production Rate	MCF/D
R	= Corrected Recovery	bbls
r_w	= Radius of Well Bore	Feet
t	= Flow Time	Minutes
t_o	= Total Flow Time	Minutes
T	= Temperature Rankine	°R
Z	= Compressibility Factor	—
μ	= Viscosity Gas or Liquid	CP
Log	= Common Log	

* Potentiometric Surface Reference to Rotary Table When Elevation Not Given, Fresh Water Corrected to 100° F.