

8-285-5w

Legal Location
Sec. - Twp. - Rng

DALTON
Lease Name

Well No.

Test No.

Tested Interval

THE MAURICE L. BROWN COMPANY
Lease Owner/Company Name

Lease Owner/Company Name

Casing perms. _____ Bottom choke 3/4" Surf. temp. _____ °F Ticket No. 126629
 Gas gravity _____ Oil gravity _____ GOR _____
 Spec. gravity _____ Chlorides _____ ppm Res. _____ @ _____ °F
 INDICATE TYPE AND SIZE OF GAS MEASURING DEVICE USED MERLA

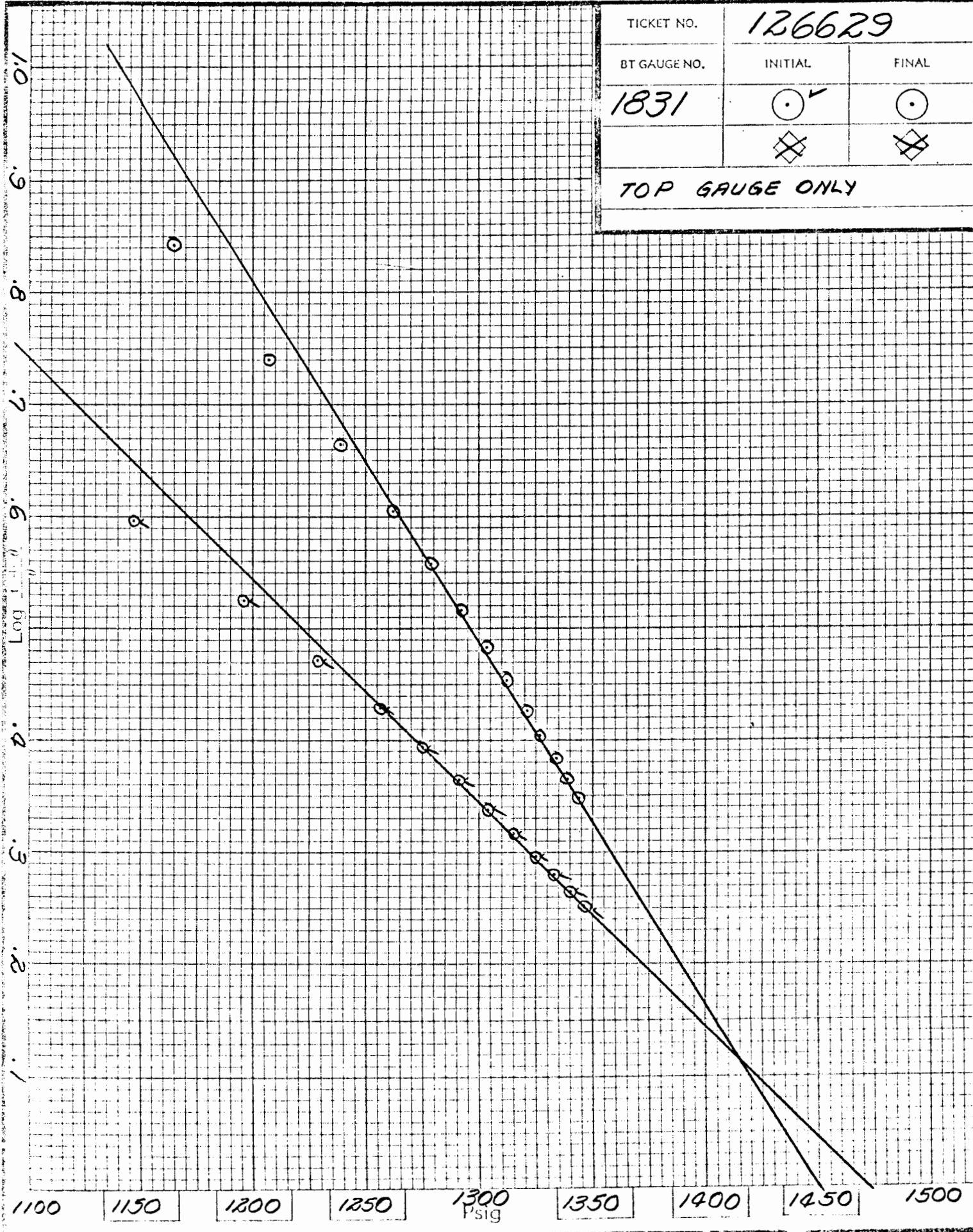
Date Time	a.m. p.m.	Choke Size	Surface Pressure psi	Gas Rate MCF	Liquid Rate BPD	Remarks
2000						Started tool.
2217						On bottom.
2220						Opened tool with a strong blow.
						Gas to surface in 8 minutes.
2240		1/2	1#	33.9		
2245		"	"	"		
2250		"	"	"		
2255		"	"	"		
2300		"	"	"		
2305		1/2	1#	33.9		Closed tool.
0005						Opened tool, strong blow.
0010		1/2	1#	33.9		
0015		"	"	"		
0020		"	"	"		
0030		"	"	"		
0045		"	"	"		
0100		"	"	"		
0115		"	"	"		
0130		"	"	"		
0150		1/2	1#	33.9		Closed tool.
0350						Off bottom.

Gauge No.		1831		Depth		3745		Clock No.		12 hour		Ticket No.		126629	
First Flow Period		First Closed In Pressure		Second Flow Period		Second Closed In Pressure		Third Flow Period		Third Closed In Pressure		PSIG Temp. Corr.		PSIG Temp. Corr.	
Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\log \frac{t + \theta}{\theta}$	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\log \frac{t + \theta}{\theta}$	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\log \frac{t + \theta}{\theta}$	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\log \frac{t + \theta}{\theta}$
0	.0000	21	.0000	.0000	53	.0000	.0000	.0000	106						
1	.0133*	26	.0265	.0816**	72	.0609**	1.244	.0609**	945						
2	.0466	37	.0531	.1497	74	.1151	.989	.1151	1094						
3	.0799	45	.0796	.2177	77	.1692	.842	.1692	1165						
4	.1132	50	.1061	.2857	79	.2233	.741	.2233	1207						
5	.1465	55	.1327	.3538	83	.2775	.665	.2775	1239						
6	.1798	58	.1592	.4218	88	.3316	.606	.3316	1262						
7	.2131	63	.1857	.4898	92	.3858	.558	.3858	1279						
8	.2463	65	.2122	.5579	96	.4399	.517	.4399	1292						
9	.2796	71	.2388	.6259	101	.4940	.483	.4940	1303						
10	.3130	80	.2653	.6940	106	.5482	.453	.5482	1312						
11			.2918			.6023	.427	.6023	1321						
12			.3184			.6565	.404	.6565	1327						
13			.3449			.7106	.383	.7106	1334						
14			.3714			.7647	.365	.7647	1339						
15			.3980			.8190	.348	.8190	1344						

Gauge No.		1830		Depth		3764		Clock No.		12 hour	
First Flow Period		First Closed In Pressure		Second Flow Period		Second Closed In Pressure		Third Flow Period		Third Closed In Pressure	
Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\log \frac{t + \theta}{\theta}$	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\log \frac{t + \theta}{\theta}$	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\log \frac{t + \theta}{\theta}$
0	.0000	31	.0000	.0000	59	.0000	.0000	.0000	113		
1	.0133*	32	.0268	.0809**	78	.0607**	1.244	.0607**	943		
2	.0466	43	.0536	.1484	80	.1146	.988	.1146	1095		
3	.0799	50	.0804	.2158	82	.1686	.841	.1686	1168		
4	.1132	55	.1072	.2833	86	.2225	.740	.2225	1211		
5	.1465	59	.1340	.3507	91	.2765	.665	.2765	1241		
6	.1798	64	.1608	.4182	94	.3304	.605	.3304	1263		
7	.2131	69	.1876	.4856	100	.3844	.557	.3844	1281		
8	.2463	70	.2144	.5531	105	.4383	.516	.4383	1294		
9	.2796	78	.2412	.6205	108	.4923	.482	.4923	1305		
10	.3130	85	.2680	.6880	113	.5462	.452	.5462	1314		
11			.2948			.6002	.426	.6002	1322		
12			.3216			.6541	.403	.6541	1330		
13			.3484			.7081	.383	.7081	1335		
14			.3752			.7620	.364	.7620	1340		
15			.4020			.8160	.348	.8160	1344		
Reading Interval		5		4		10		8		Minutes	

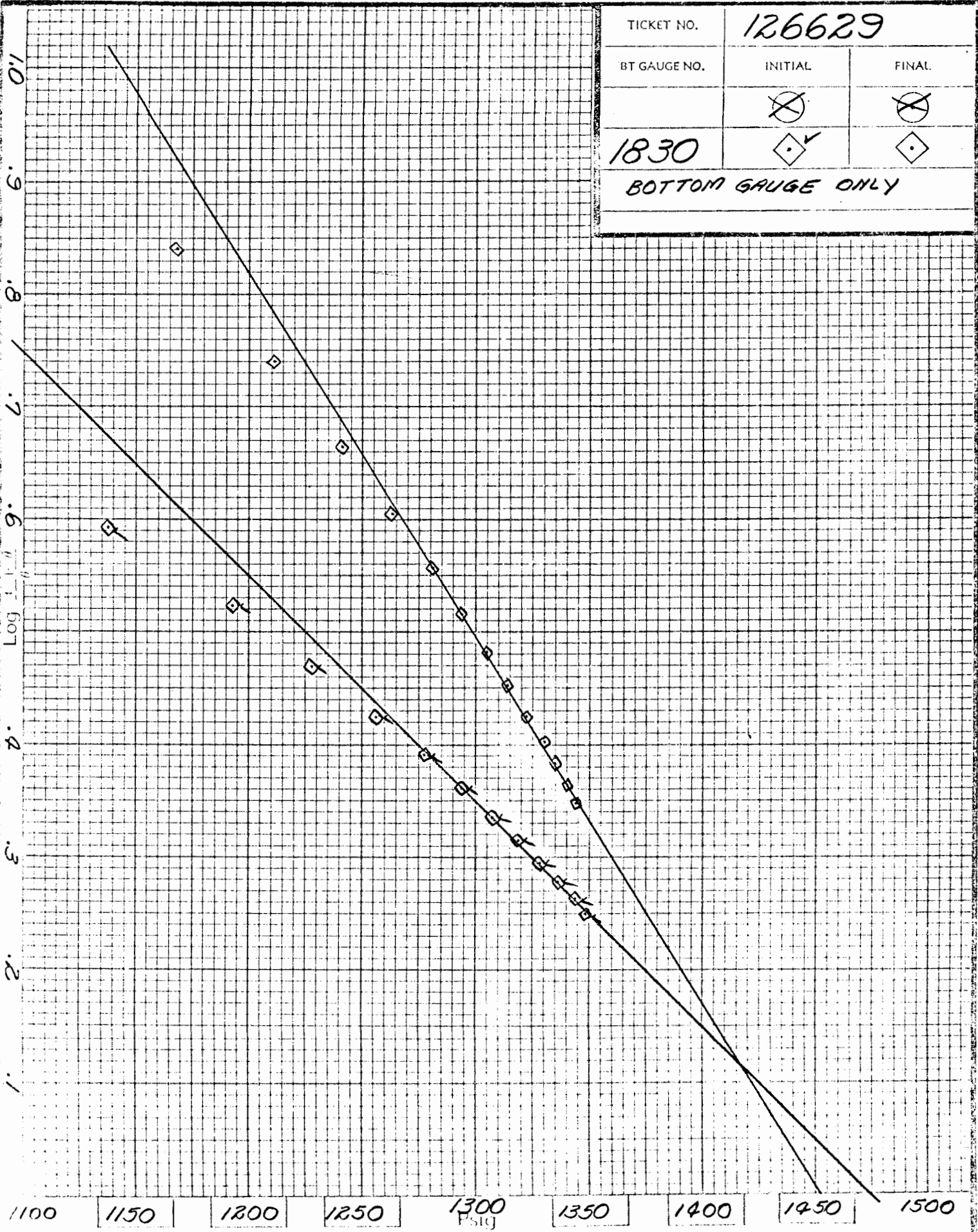
REMARKS: * - first interval is equal to 2 minutes, ** - 12 minutes, *** - 9 minutes.

TICKET NO.	126629	
BT GAUGE NO.	INITIAL	FINAL
1831		
TOP GAUGE ONLY		



EXTRAPOLATED PRESSURE GRAPH

TICKET NO.	126629	
BT GAUGE NO.	INITIAL	FINAL
	⊠	⊠
1830	⊠✓	⊠
BOTTOM GAUGE ONLY		



EXTRAPOLATED PRESSURE GRAPH

Gas Production

B.T. Gauge Numbers			1831	1830	Ticket Number		126629
			PRESSURE	PRESSURE			
Initial Hydrostatic			1950	1968	Elevation		- ft.
Final Hydrostatic			1921	1930			
1st Flow	Initial	Time	21	31	Production Rate	1st Flow	33.9 MCF
	Final	47	80	85		2nd Flow	33.9 MCF
	Closed In Pressure	60	1346	1348		3rd Flow	- MCF
2nd Flow	Initial	Time	53	59	Hole Size		7.875 in.
	Final	102	106	113	Footage Tested		13 ft.
	Closed In Pressure	121	1344	1344	Mud Weight		9.8 lbs./gal.
3rd Flow	Initial	Time			Gas Viscosity		0.016 cp
	Final				Gas Gravity		EST. 0.60 —
	Closed In Pressure				Gas Compressibility		0.83 —
					Temperature		104 °F
Extrapolated Static Pressure		1st	1472	1474			
		2nd	1450	1452			
		3rd	-	-			
Slope P/10		1st	972	974			
		2nd	1140	1142			
		3rd	-	-			

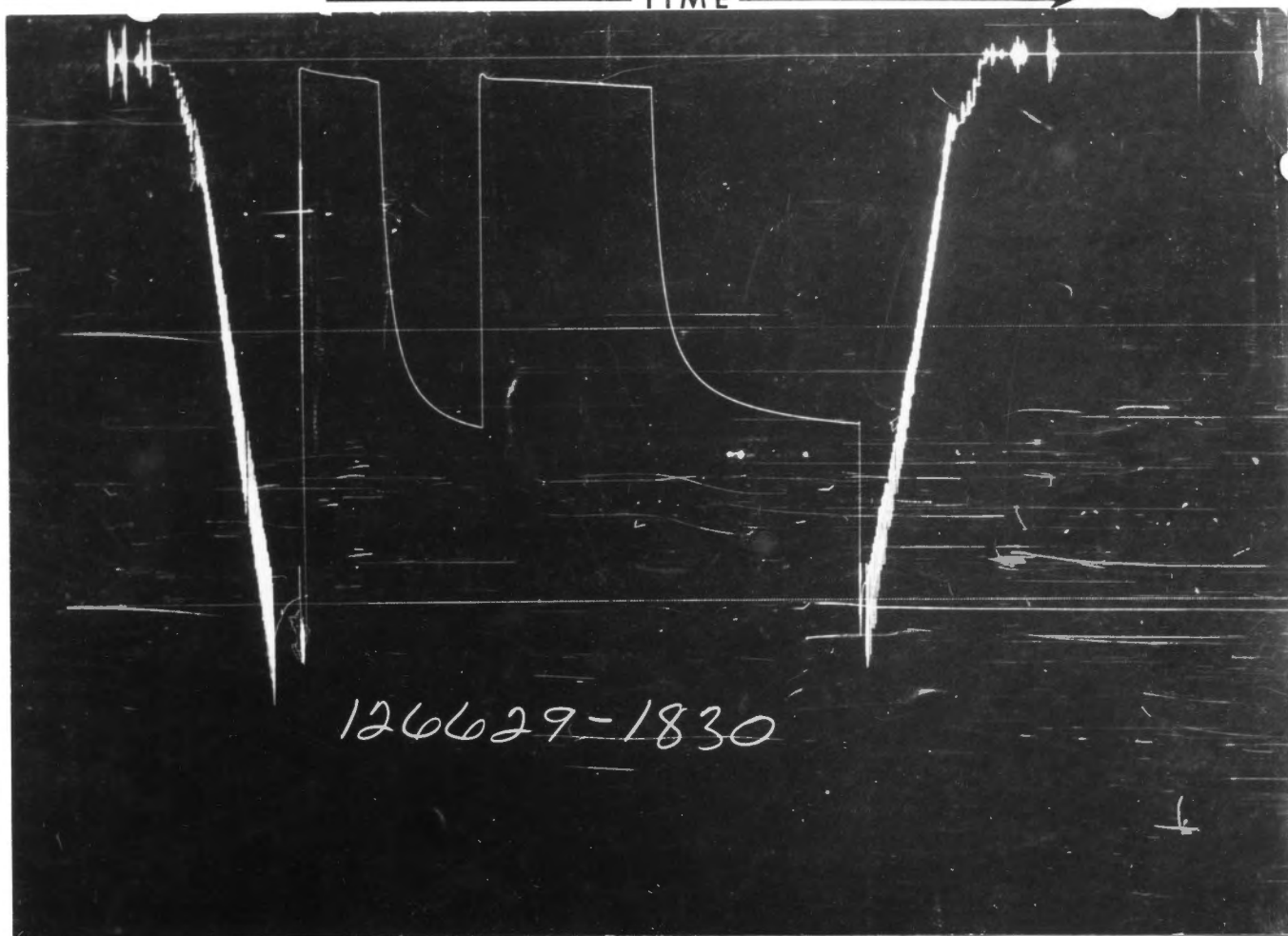
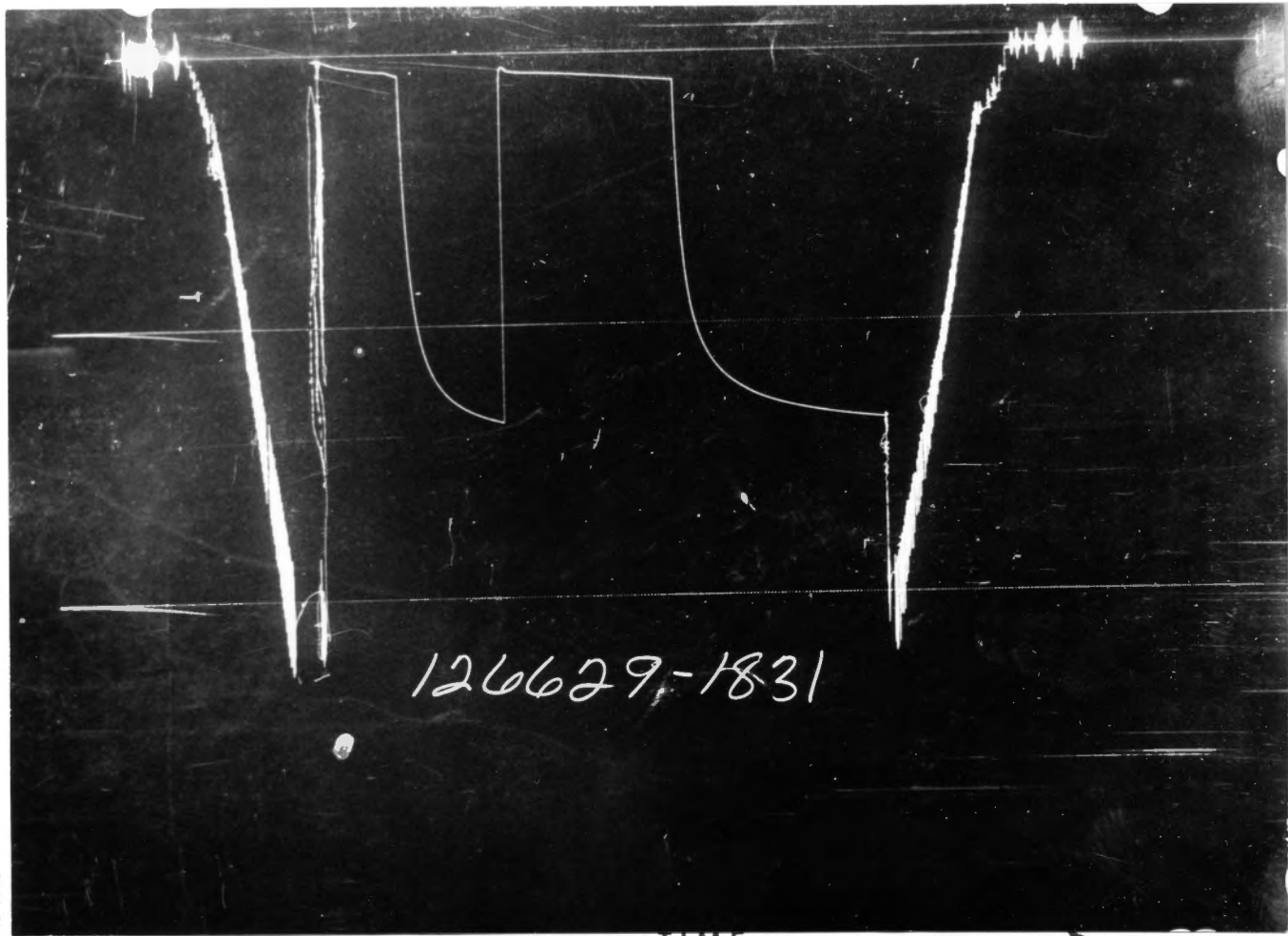
Remarks: Calculations based on reported production rate of 33.9 MCF/D.

SUMMARY		B.T. Gauge No. 1831 Depth 3745			B.T. Gauge No. 1830 Depth 3764			
PRODUCT	EQUATION	FIRST	SECOND	THIRD	FIRST	SECOND	THIRD	UNITS
Transmissibility	$\frac{Kh}{\mu} = \frac{1637 Q_g ZT}{m}$	21.259	32.356		21.224	32.306		md. ft. cp
Theoretical Flow Capacity	$Kh = \frac{Kh}{\mu} \mu$	0.341	0.518		0.340	0.517		md. ft.
Average Effective	$K = \frac{Kh}{h}$	0.027	0.040		0.027	0.040		md.
Permeability	$K_1 = \frac{Kh}{h_1}$	-	-		-	-		md.
Indicated Flow Capacity	$(Kh)_a = \frac{3200 Q_g \mu ZT \log(0.472 b/r_w)}{P_s^2 - P_r^2}$	0.122	0.238		0.121	0.238		md. ft.
Damage Ratio	$DR = \frac{\text{Theo. Flow Cap}}{\text{Indicated Flow Cap}} \frac{Kh}{(Kh)_a}$	2.809	2.177		2.813	2.180		—
Indicated Flow Rate	$OF_1 = \frac{Q_g}{P_s^2 - P_r^2} P_s^2$ Max.	34	34		34	34		MCFD
	$OF_2 = \frac{Q_g}{\sqrt{P_s^2 - P_r^2}} P_s$ Min.	34	34		34	34		MCFD
Theoretical Potential Rate	$OF_3 = OF_1 DR$ Max.	95	74		96	74		MCFD
	$OF_4 = OF_2 DR$ Min.	95	74		96	74		MCFD
Approx. Radius of Investigation	$b \approx \sqrt{Kt} \text{ or } \sqrt{Kt_0}$	1.4	2.7		1.4	2.8		ft.
	$b_1 \approx \sqrt{K_1 t} \text{ or } \sqrt{K_1 t_0}$	-	-		-	-		ft.
Potentiometric Surface *	$Pot. = (EI - GD) + (2.319 P_s)$	-331	-382		-346	-397		ft.

NOTICE: These calculations are based upon information furnished by you and taken from Drill Stem Test pressure charts, and are furnished you for your information. In furnishing such calculations and evaluations based thereon, Halliburton is merely expressing its opinion. You agree that Halliburton makes no warranty express or implied as to the accuracy of such calculations or opinions, and that Halliburton shall not be liable for any loss or damage, whether due to negligence or otherwise, in connection with such calculations and opinions.

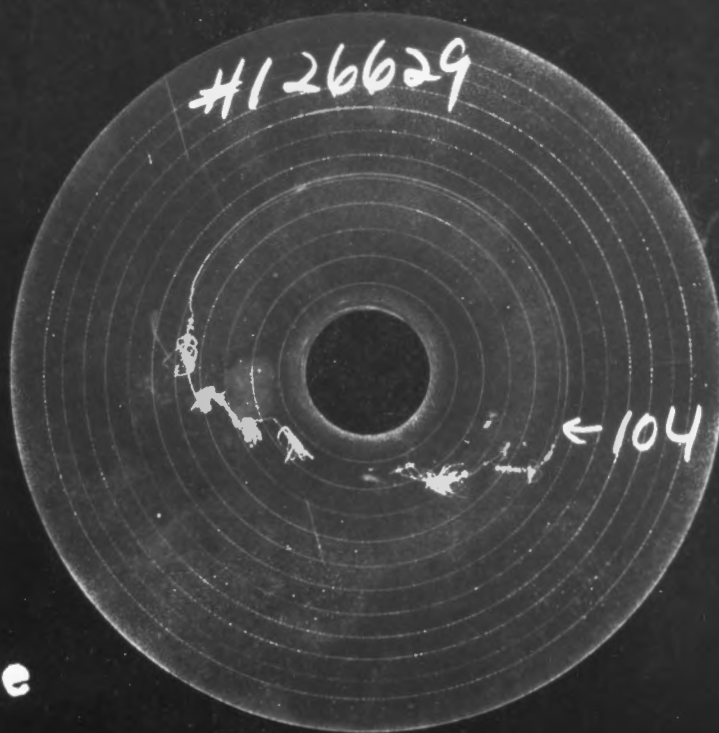
	O. D.	I. D.	LENGTH	DEPTH
Drill Pipe or Tubing				
Reversing Sub	5 5/8"	2"	1 1/2'	
Water Cushion Valve				
Drill Pipe	4 1/2" FH	3.826"	3300'	
Drill Collars	6"	2.25"	4.20'	
Handling Sub & Choke Assembly	5 3/4"	2 1/4"	2 1/2'	
Dual CIP Valve	5"	3/4"	6"	3729'
Dual CIP Sampler				
Hydro-Spring Tester	5"	3/4"	5"	3735'
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	2 1/4"	4'	3745'
Hydraulic Jar	5"	2 1/2"	5'	
VR Safety Joint	5"	1 1/2"	3'	
Pressure Equalizing Crossover				
Packer Assembly	6 3/4"	1 1/2"	6'	3755'
Distributor				
Packer Assembly				
Flush Joint Anchor	5"	2 1/4"	13'	
Pressure Equalizing Tube				
Blanked-Off B.T. Running Case	5"	2 1/2"	4'	3764'
Drill Collars				
Anchor Pipe Safety Joint				
Packer Assembly				
Distributor				
Packer Assembly				
Anchor Pipe Safety Joint				
Side Wall Anchor				
Drill Collars				
Flush Joint Anchor				
Blanked-Off B.T. Running Case				
Total Depth				3768'

PRESSURE
↓



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

TEMPERATURE RECORDER CHART



10° each circle

OF_3	= Theoretical Open Flow Potential with/Damage Removed Max.	MCF/D
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_{ot}	= 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.

FLUID SAMPLE DATA				Date 10-16-76		Ticket Number 126640																																																																																											
Sampler Pressure _____ P.S.I.G. at Surface Recovery: Cu. Ft. Gas _____ cc. Oil _____ cc. Water _____ cc. Mud _____ Tot. Liquid cc. _____ Gravity _____ ° API @ _____ °F. Gas/Oil Ratio _____ cu. ft./bbl. RESISTIVITY CHLORIDE CONTENT Recovery Water _____ @ _____ °F. _____ ppm Recovery Mud _____ @ _____ °F. _____ ppm Recovery Mud Filtrate _____ @ _____ °F. _____ ppm Mud Pit Sample _____ @ _____ °F. _____ ppm Mud Pit Sample Filtrate _____ @ _____ °F. _____ ppm Mud Weight 9.8 vis 42 sec				Kind of Job OPEN HOLE Tester MR. THOMPSON Drilling Contractor SLAWSON DRILLING COMPANY DR S		Halliburton District PRATT Witness MR. STUBBS																																																																																											
EQUIPMENT & HOLE DATA																																																																																																	
Formation Tested Mississippi				Elevation ? Ft.																																																																																													
Net Productive Interval 8'				All Depths Measured From Kelly Bushing																																																																																													
Total Depth 3795'				Main Hole/Casing Size 7 7/8"																																																																																													
Drill Collar Length 420'				I.D. 2.25"																																																																																													
Drill Pipe Length 3333'				I.D. 3.826"																																																																																													
Packer Depth(s) 3787'				Ft.																																																																																													
Depth Tester Valve 3767'				Ft.																																																																																													
Cushion		TYPE	AMOUNT	Depth Back Pres. Valve	Surface Choke	Bottom Choke 3/4"																																																																																											
Recovered 70		Feet of drilling mud																																																																																															
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Remarks Opened tool for 45 minute first flow with a weak blow. Closed tool for 61 minute first closed in pressure. Reopened tool for 44 minute second flow with a weak blow. Closed tool for 90 minute second closed in pressure.																																																																																																	
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>TEMPERATURE</th> <th>Gauge No. 1831</th> <th>Gauge No. 1830</th> <th>Gauge No.</th> <th>TIME</th> </tr> <tr> <td></td> <td>Depth: 3777 Ft.</td> <td>Depth: 3791 Ft.</td> <td>Depth: _____ Ft.</td> <td></td> </tr> <tr> <td>Est. _____ °F.</td> <td>12 Hour Clock</td> <td>12 Hour Clock</td> <td>Hour Clock</td> <td>Tool _____ A.M.</td> </tr> <tr> <td></td> <td>Blanked Off NO</td> <td>Blanked Off YES</td> <td>Blanked Off</td> <td>Opened 4:00 P.M.</td> </tr> <tr> <td>3789'</td> <td></td> <td></td> <td></td> <td>Opened _____ A.M.</td> </tr> <tr> <td>Actual 110 °F.</td> <td>Pressures</td> <td>Pressures</td> <td>Pressures</td> <td>Bypass 8:00 P.M.</td> </tr> <tr> <td></td> <td>Field Office</td> <td>Field Office</td> <td>Field Office</td> <td>Reported Computed</td> </tr> <tr> <td></td> <td>Minutes Minutes</td> <td>Minutes Minutes</td> <td>Minutes Minutes</td> <td></td> </tr> </thead> <tbody> <tr> <td>Initial Hydrostatic</td> <td>2114 2004</td> <td>2114 2022</td> <td></td> <td></td> </tr> <tr> <td rowspan="3">First Period Flow</td> <td>Initial 28 13</td> <td>28 28</td> <td></td> <td></td> </tr> <tr> <td>Final 37 19</td> <td>37 34</td> <td></td> <td></td> </tr> <tr> <td>Closed in 1359 1330</td> <td>1359 1341</td> <td></td> <td></td> </tr> <tr> <td rowspan="3">Second Period Flow</td> <td>Initial 37 39</td> <td>37 56</td> <td></td> <td></td> </tr> <tr> <td>Final 65 46</td> <td>65 60</td> <td></td> <td></td> </tr> <tr> <td>Closed in 1395 1374</td> <td>1395 1387</td> <td></td> <td></td> </tr> <tr> <td rowspan="2">Third Period Flow</td> <td>Initial _____</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Final _____</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Closed in</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Final Hydrostatic</td> <td>2096 1961</td> <td>2096 1975</td> <td></td> <td></td> </tr> </tbody> </table>								TEMPERATURE	Gauge No. 1831	Gauge No. 1830	Gauge No.	TIME		Depth: 3777 Ft.	Depth: 3791 Ft.	Depth: _____ Ft.		Est. _____ °F.	12 Hour Clock	12 Hour Clock	Hour Clock	Tool _____ A.M.		Blanked Off NO	Blanked Off YES	Blanked Off	Opened 4:00 P.M.	3789'				Opened _____ A.M.	Actual 110 °F.	Pressures	Pressures	Pressures	Bypass 8:00 P.M.		Field Office	Field Office	Field Office	Reported Computed		Minutes Minutes	Minutes Minutes	Minutes Minutes		Initial Hydrostatic	2114 2004	2114 2022			First Period Flow	Initial 28 13	28 28			Final 37 19	37 34			Closed in 1359 1330	1359 1341			Second Period Flow	Initial 37 39	37 56			Final 65 46	65 60			Closed in 1395 1374	1395 1387			Third Period Flow	Initial _____				Final _____				Closed in					Final Hydrostatic	2096 1961	2096 1975		
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 Legal Location
 Sec. - Twp. - Rng.

8-28-5

 Field Area
 Wildcat

County

KINGMAN

State

KANSAS

DALTON

Lease Name

1

Well No.

2

Test No.

3787-3795'

Tested Interval

THE MAURICE L. BROWN COMPANY

Lease Owner/Company Name

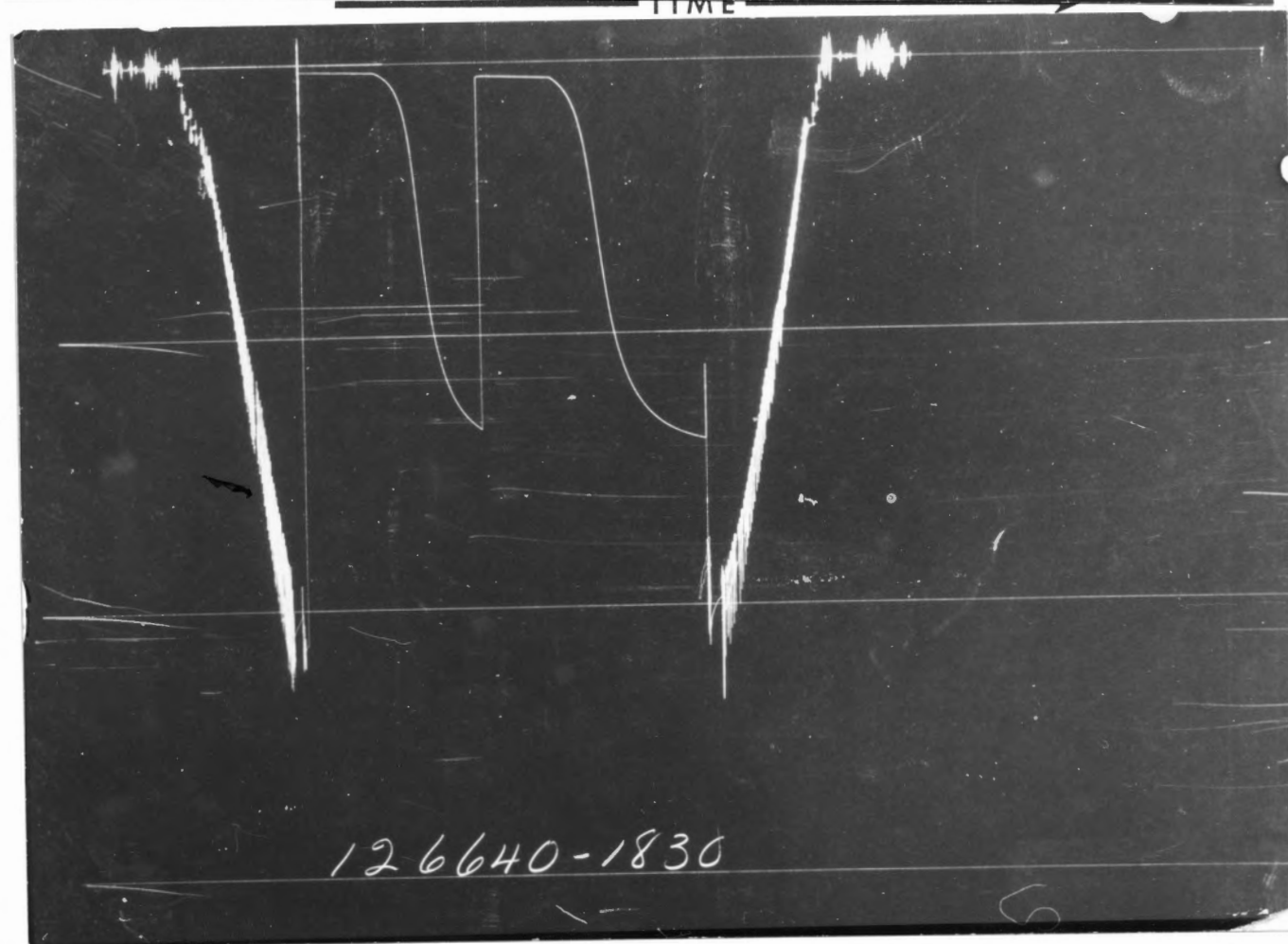
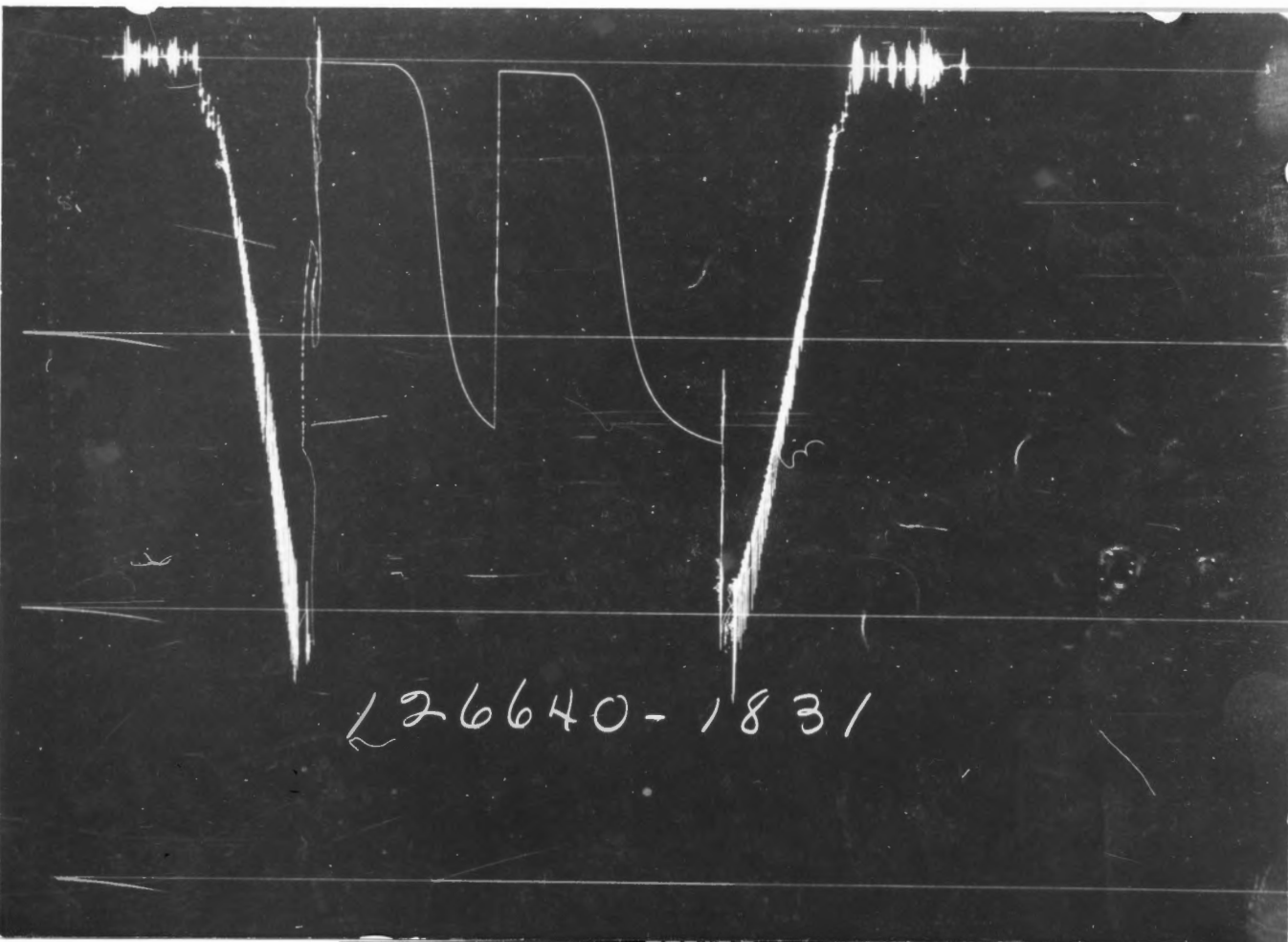
Gauge No. 1831		Depth		3777'		Clock No. -		12 hour		Ticket No.		126640	
First Flow Period		First Closed In Pressure		Second Flow Period		Second Closed In Pressure		Third Flow Period		Third Closed In Pressure			
Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\log \frac{t + \theta}{\theta}$	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\log \frac{t + \theta}{\theta}$	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\log \frac{t + \theta}{\theta}$	Time Defl. .000"	PSIG Temp. Corr.
0 .000	13	.000		.000	39	.000							
1 .059	14	.0475		.0601	38 **	.0401							
2 .118	15	.0882		.1069	39	.0801							
3 .177	16	.1290		.1537	40	.1202							
4 .236	17	.1697		.2005	43	.1603							
5 .295	19	.2104		.2472	45	.2004							
6		.2511		.2940	46	.2404							
7		.2918				.2805							
8		.3326				.3206							
9		.3733				.3606							
10		.4140				.4007							
11						.4408							
12						.4808							
13						.5209							
14						.5610							
15						.6010							

Gauge No. 1830		Depth		3791'		Clock No.		-		hour	12	
0	.000	28	.000	34	.000	56	.000		60			
1	.0604	28	.0467	60*	.0599	52**	.0399		90			
2	.1208	30	.0867	118	.1065	53	.0797		146			
3	.1812	31	.1268	256	.1532	55	.1196		256			
4	.2416	32	.1668	565	.1998	56	.1595		485			
5	.3020	34	.2068	907	.2464	57	.1994		769			
6			.2469	1093	.2930	60	.2392		992			
7			.2869	1205			.2791		1128			
8			.3269	1270			.3190		1206			
9			.3670	1314			.3588		1264			
10			.4070	1341			.3987		1304			
11							.4386		1331			
12							.4784		1351			
13							.5183		1366			
14							.5582		1378			
15							.5980		1387			
Reading Interval		9		6		7		6				Minutes

REMARKS: *-7 minutes **-9 minutes

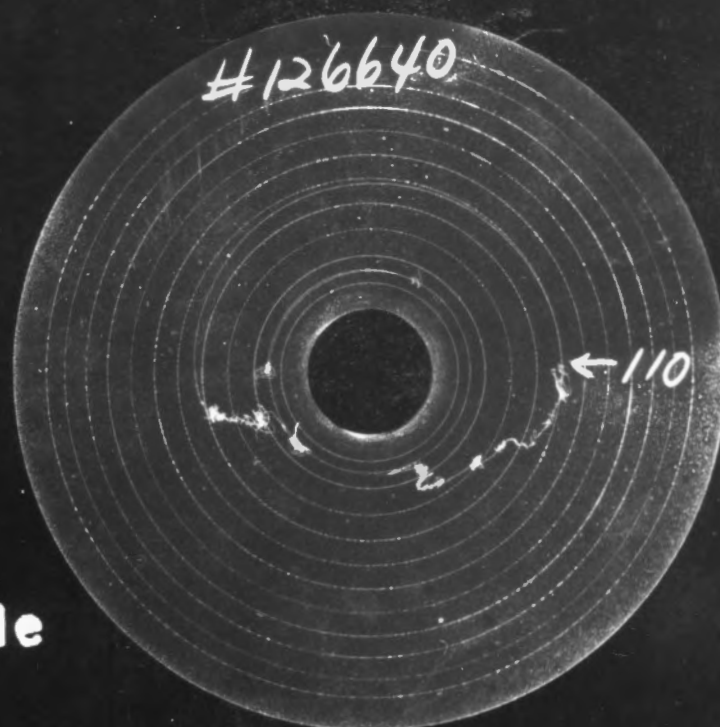
	O. D.	I. D.	LENGTH	DEPTH
Drill Pipe or Tubing	5 5/8"	2"	1 1/2'	
Reversing Sub				
Water Cushion Valve	4 1/2"	3.826"	3333'	
Drill Pipe	6"	2.25"	420'	
Drill Collars	5 3/4"	2 1/4"	2 1/2'	
Handling Sub & Choke Assembly	5"	3/4"	6'	3761'
Dual CIP Valve				
Dual CIP Sampler	5"	3/4"	5'	3767'
Hydro-Spring Tester				
Multiple CIP Sampler				
Extension Joint				
AP Running Case	4"	2 1/4"	4'	3777'
Hydraulic Jar	5"	2 1/2"	5'	
VR Safety Joint	5"	1 1/2"	3'	
Pressure Equalizing Crossover				
Packer Assembly	6 3/4"	1 1/2"	6'	3787'
Distributor				
Packer Assembly				
Flush Joint Anchor	5"	2 1/4"	8'	
Pressure Equalizing Tube				
Blanked-Off B.T. Running Case	5"	2 1/2"	4'	3791'
Drill Collars				
Anchor Pipe Safety Joint				
Packer Assembly				
Distributor				
Packer Assembly				
Anchor Pipe Safety Joint				
Side Wall Anchor				
Drill Collars				
Flush Joint Anchor				
Blanked-Off B.T. Running Case				
Total Depth				3795'

PRESSURE



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

TEMPERATURE RECORDER CHART



10° each circle

- OF_3 = Theoretical Open Flow Potential with/Damage Removed Max. . . . MCF/D
 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_{ot} = 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.

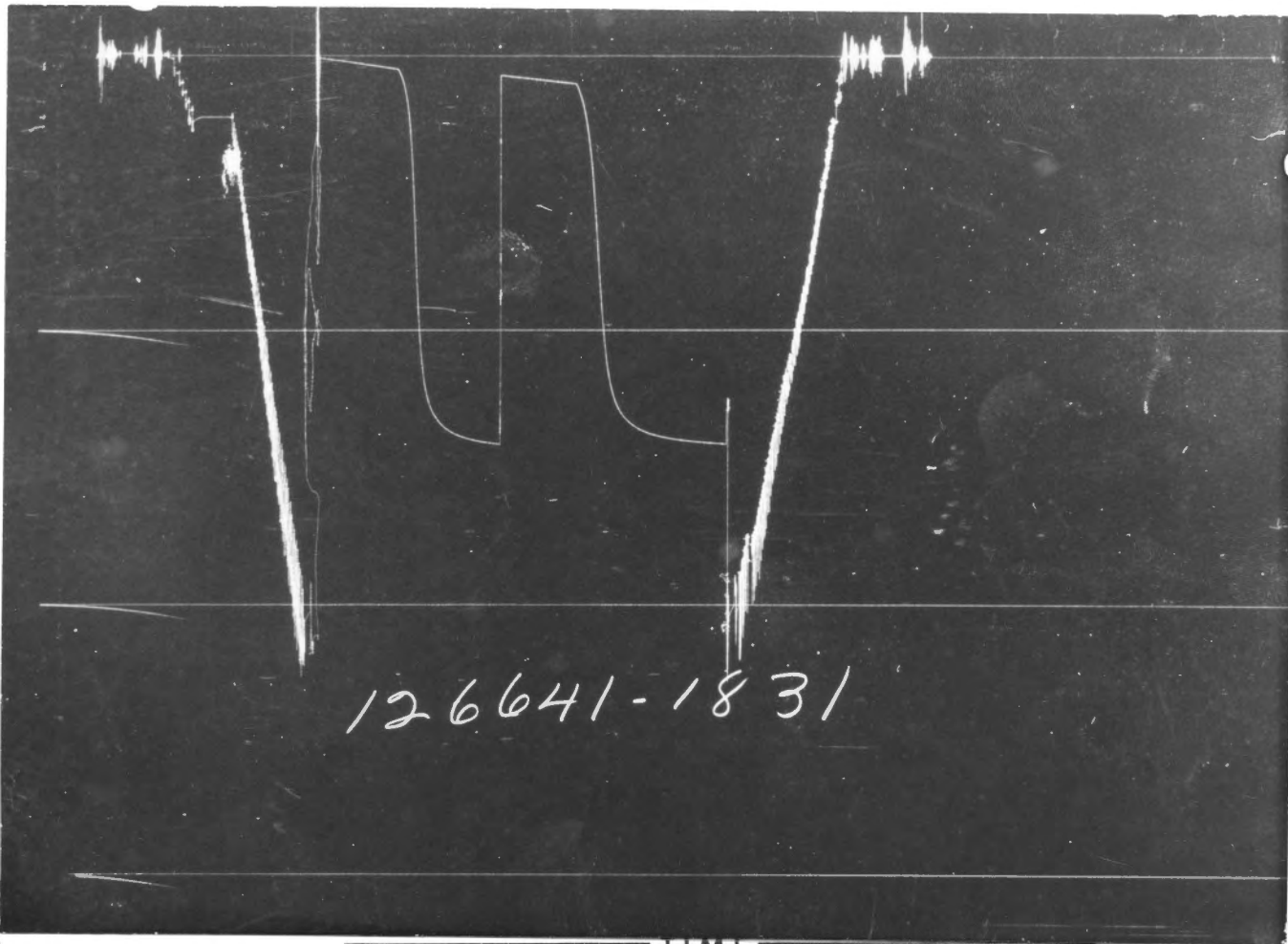
Gauge No.		1831		Depth		3785'		Clock No.		-		12 hour		Ticket No.		126641	
First Flow Period		First Closed In Pressure		Second Flow Period		Second Closed In Pressure		Third Flow Period		Third Closed In Pressure		Third Flow Period		Third Closed In Pressure		Third Flow Period	
Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\text{Log } \frac{t + \theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	$\text{Log } \frac{t + \theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	$\text{Log } \frac{t + \theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	$\text{Log } \frac{t + \theta}{\theta}$	PSIG Temp. Corr.	
0	.000	9	.000	50	.000	74	.000	101									
1	.0533	15	.0269	115	.0617	78*	.0270	170**									
2	.1067	21	.0537	329	.1098	83	.0674	435									
3	.1600	28	.0806	929	.1579	87	.1078	993									
4	.2133	35	.1075	1209	.2059	93	.1482	1241									
5	.2667	44	.1344	1290	.2540	97	.1887	1311									
6	.3200	50	.1612	1331	.3020	101	.2291	1345									
7			.1881	1354			.2695	1365									
8			.2150	1370			.3100	1378									
9			.2418	1382			.3504	1377									
10			.2687	1390			.3908	1393									
11			.2956	1397			.4313	1397									
12			.3224	1402			.4717	1402									
13			.3493	1407			.5121	1405									
14			.3762	1409			.5525	1408									
15			.4030	1411			.5930	1409									

Gauge No.	1830	Depth	3811'	Clock No.	-	hour	12
0	.000	30	.000	.000	94	.000	119
1	.0535	33	.0268	.0606	94*	.0270	188**
2	.1070	39	.0536	.1079	99	.0674	458
3	.1605	47	.0804	.1554	104	.1078	994
4	.2140	55	.1072	.2028	109	.1482	1219
5	.2675	62	.1340	.2502	114	.1887	1324
6	.3210	69	.1608	.2980	119	.2291	1359
7			.1876			.2695	1379
8			.2144			.3100	1392
9			.2412			.3504	1400
10			.2680			.3908	1406
11			.2948			.4313	1411
12			.3216			.4717	1415
13			.3484			.5121	1417
14			.3752			.5525	1421
15			.4020			.5930	1422
Reading Interval 8		4	7	6	Minutes		

REMARKS: *-9 minutes **-4 minutes.

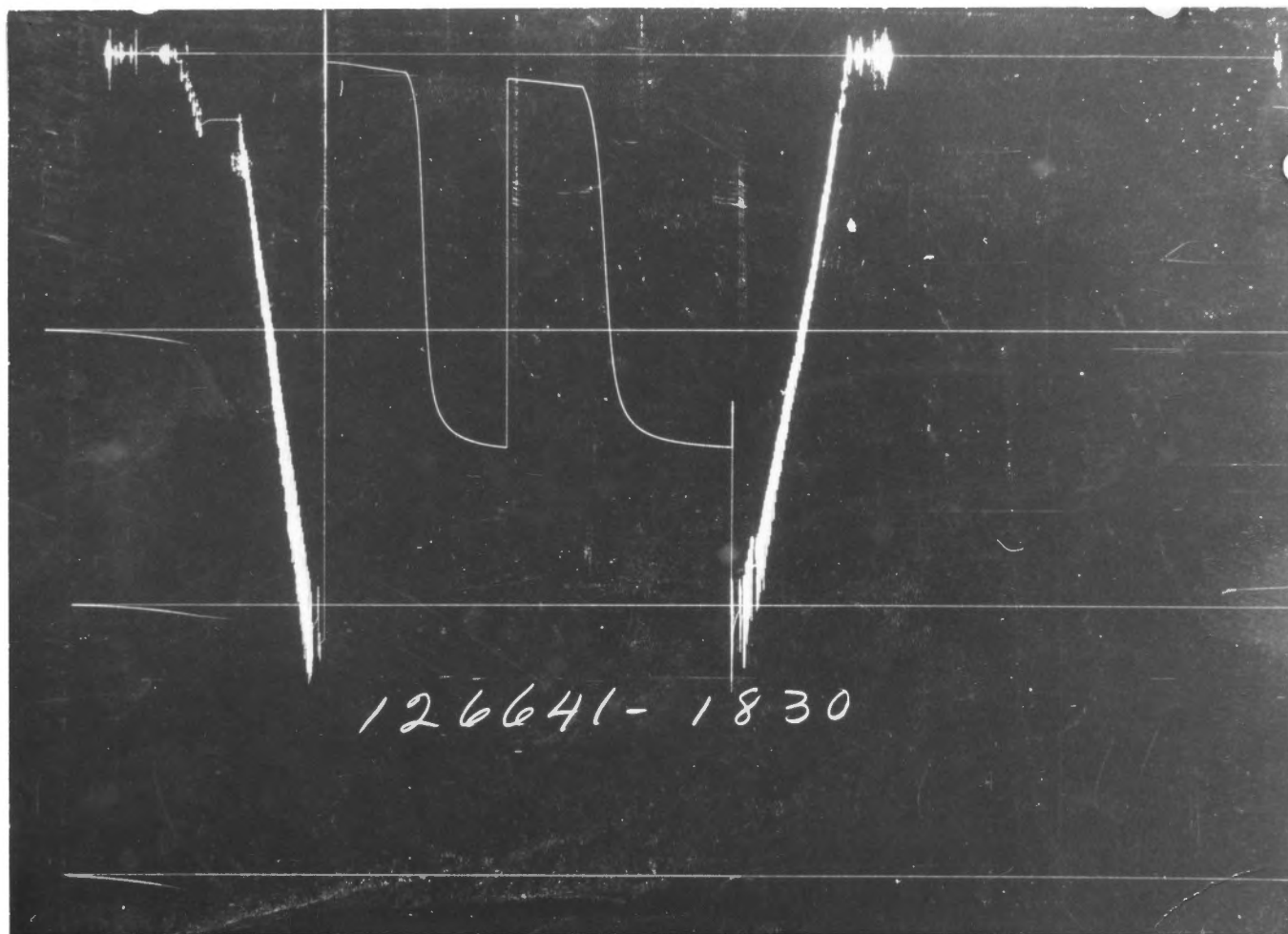
	O. D.	I. D.	LENGTH	DEPTH
Drill Pipe or Tubing	5 5/8"	2"	1 1/2'	
Reversing Sub				
Water Cushion Valve	4 1/2"	3.826"	3345'	
Drill Pipe	6"	2.25"	420'	
Drill Collars	5 3/4"	2 1/2"	2 1/2'	
Handling Sub & Choke Assembly	5"	3/4"	6'	3769'
Dual CIP Valve				
Dual CIP Sampler	5"	3/4"	5'	3775'
Hydro-Spring Tester				
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	2 1/4"	4'	3785'
Hydraulic Jar	5"	2 1/2"	5'	
VR Safety Joint	5"	1 1/4"	3'	
Pressure Equalizing Crossover				
Packer Assembly	6 3/4"	1 1/2"	6'	3795'
Distributor				
Packer Assembly				
Flush Joint Anchor	5"	2 1/4"	20'	
Pressure Equalizing Tube				
Blanked-Off B.T. Running Case	5"	2 1/2"	4'	3811'
Drill Collars				
Anchor Pipe Safety Joint				
Packer Assembly				
Distributor				
Packer Assembly				
Anchor Pipe Safety Joint				
Side Wall Anchor				
Drill Collars				
Flush Joint Anchor				
Blanked-Off B.T. Running Case				
Total Depth				3815'

↓ PRESSURE



TIME →

↓



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

TEMPERATURE RECORDER CHART



10° each circle

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