

— I HAVE LOST MY COMB, AND

Casing perms. _____ Bottom choke _____ Surf. temp. _____ °F Ticket No. 190563
Gas gravity _____ Oil gravity _____ GOR _____
Spec. gravity _____ Chlorides _____ ppm Res _____ @ _____ °F
INDICATE TYPE AND SIZE OF GAS MEASURING DEVICE USED Merla 2" Orifice Tester

[illegible]

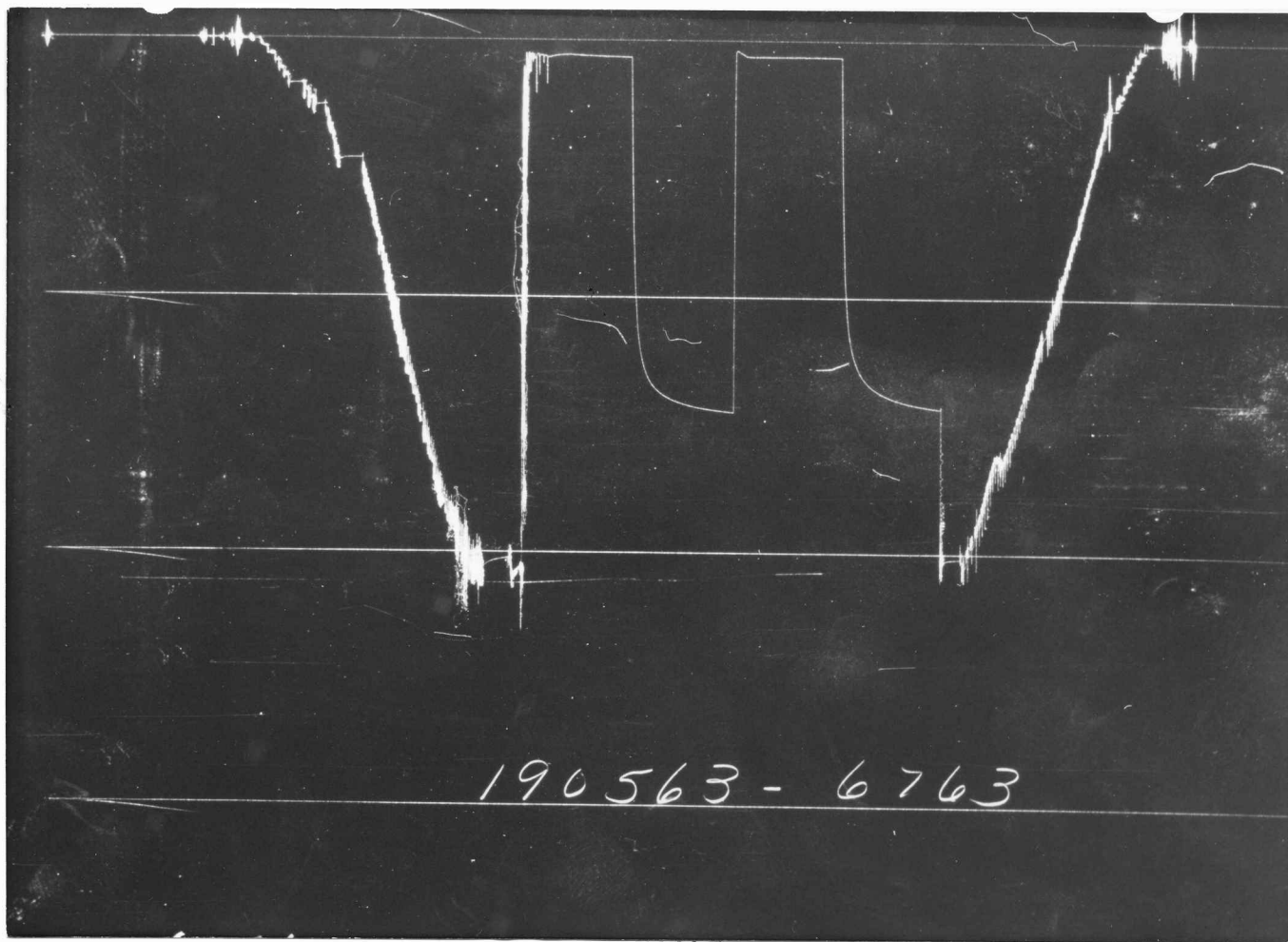
Gauge No.		6763		Depth		4311'		Clock No.		7046		12 hour		Ticket No.		190563	
First Flow Period		First Closed In Pressure		Second Flow Period		Second Closed In Pressure		Third Flow Period		Third Closed In Pressure		Third Flow Period		Third Closed In Pressure		Third Flow Period	
Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\log \frac{t + \theta}{\theta}$	Time Defl. .000"	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"	PSIG Temp. Corr.	Time Defl. .000"	$\log \frac{t + \theta}{\theta}$	Time Defl. .000"	PSIG Temp. Corr.
0	.000	101	.000	.000	65	.000	40	.000	.000	.000	63	.000	.000	.000	.000	.000	.000
1	.0743	101*	.0265	.0736	1099	.0736	62	.0736	.0133	.0133	834**	.0133	.0133	.0133	.0133	.0133	.0133
2	.1418	60	.0531	.1405	1276	.1405	63	.1405	.0400	.0400	1181	.0400	.0400	.0400	.0400	.0400	.0400
3	.2094	60	.0796	.2074	1334	.2074	63	.2074	.0667	.0667	1273	.0667	.0667	.0667	.0667	.0667	.0667
4	.2769	64	.1061	.2742	1366	.2742	63	.2742	.0934	.0934	1320	.0934	.0934	.0934	.0934	.0934	.0934
5	.3445	65	.1327	.3411	1386	.3411	63	.3411	.1201	.1201	1347	.1201	.1201	.1201	.1201	.1201	.1201
6	.4120	65	.1592	.4080	1400	.4080	63	.4080	.1468	.1468	1366	.1468	.1468	.1468	.1468	.1468	.1468
7			.1857		1410				.1735	.1735	1380	.1735	.1735	.1735	.1735	.1735	.1735
8			.2122		1418				.2002	.2002	1392	.2002	.2002	.2002	.2002	.2002	.2002
9			.2388		1425				.2269	.2269	1401	.2269	.2269	.2269	.2269	.2269	.2269
10			.2653		1431				.2536	.2536	1408	.2536	.2536	.2536	.2536	.2536	.2536
11			.2918		1435				.2802	.2802	1413	.2802	.2802	.2802	.2802	.2802	.2802
12			.3184		1439				.3069	.3069	1419	.3069	.3069	.3069	.3069	.3069	.3069
13			.3449		1442				.3336	.3336	1424	.3336	.3336	.3336	.3336	.3336	.3336
14			.3714		1445				.3603	.3603	1428	.3603	.3603	.3603	.3603	.3603	.3603
15			.3980		1447				.3870	.3870	1430	.3870	.3870	.3870	.3870	.3870	.3870

Gauge No.		6762		Depth		4341'		Clock No.		2476		hour		12	
Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\log \frac{t + \theta}{\theta}$	Time Defl. .000"	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"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.
0	.000	245	.000	.000	126	.000	215	.000	.000	.000	162	.000	.000	.000	.000
1	.0741	304*	.0266	.0738	1066	.0738	182*	.0738	.0134	.0134	787**	.0134	.0134	.0134	.0134
2	.1415	200	.0532	.1408	1263	.1408	174	.1408	.0402	.0402	1157	.0402	.0402	.0402	.0402
3	.2089	151	.0798	.2079	1327	.2079	170	.2079	.0671	.0671	1258	.0671	.0671	.0671	.0671
4	.2763	139	.1064	.2749	1362	.2749	172	.2749	.0939	.0939	1307	.0939	.0939	.0939	.0939
5	.3436	130	.1330	.3420	1382	.3420	164	.3420	.1207	.1207	1341	.1207	.1207	.1207	.1207
6	.4110	126	.1596	.4090	1398	.4090	162	.4090	.1476	.1476	1362	.1476	.1476	.1476	.1476
7			.1862		1409				.1744	.1744	1377	.1744	.1744	.1744	.1744
8			.2128		1417				.2012	.2012	1391	.2012	.2012	.2012	.2012
9			.2394		1425				.2281	.2281	1399	.2281	.2281	.2281	.2281
10			.2660		1431				.2549	.2549	1406	.2549	.2549	.2549	.2549
11			.2926		1436				.2817	.2817	1413	.2817	.2817	.2817	.2817
12			.3192		1440				.3085	.3085	1418	.3085	.3085	.3085	.3085
13			.3458		1443				.3354	.3354	1424	.3354	.3354	.3354	.3354
14			.3724		1446				.3622	.3622	1428	.3622	.3622	.3622	.3622
15			.3990		1448				.3890	.3890	1430	.3890	.3890	.3890	.3890

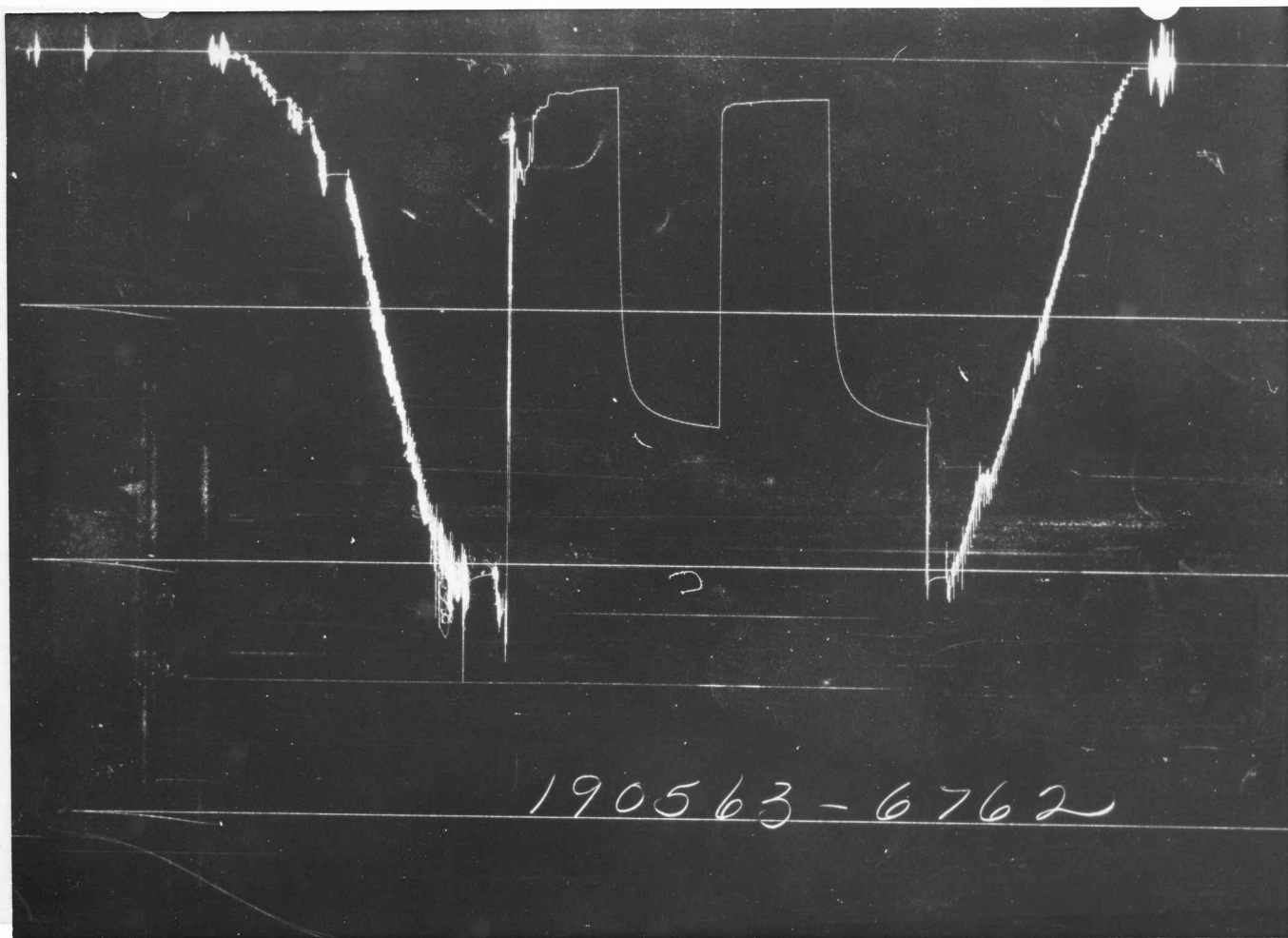
Reading Interval	10	4	10	4
REMARKS:	*--11 minutes **--2 minutes.			
Minutes				

	O. D.	I. D.	LENGTH	DEPTH
Drill Pipe or Tubing	5.75"	2.50"	1'	
Reversing Sub				
Water Cushion Valve	4½"	3.826"	3773'	
Drill Pipe	6.0"	2.25"	540'	
Drill Collars	5.0"	2.50"	5'	
Handling Sub & Choke Assembly	5.0"	.87"	5'	4305'
Dual CIP Valve				
Dual CIP Sampler	5.0"	.75"	5'	4310'
Hydro-Spring Tester				
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5.0"	3.75"	4'	4311'
Hydraulic Jar	5.0"	1.00"	5'	
VR Safety Joint	5.0"	1.00"	3'	
Pressure Equalizing Crossover				
Packer Assembly	6.75"	1.53"	6'	4326'
Distributor				
Packer Assembly	6.75"	1.53"	6'	4332'
Flush Joint Anchor	5.0"	2.37"	6'	
Pressure Equalizing Tube				
Blanked-Off B.T. Running Case	5.0"	2.50"	4'	4341'
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				4345'

PRESSURE

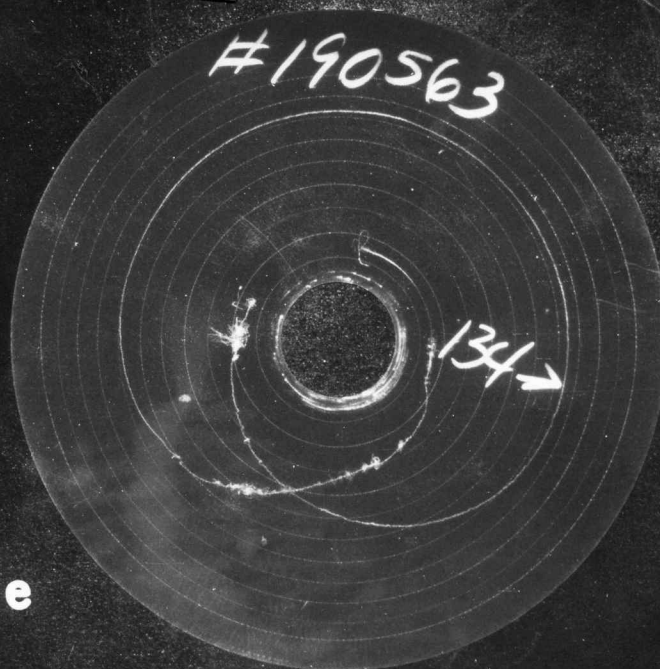


TIME



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.

Casing perms. _____ Bottom choke _____ Surf. temp _____ °F Ticket No. 190564
 Gas gravity _____ Oil gravity _____ GOR _____
 Spec. gravity _____ Chlorides _____ ppm Res. _____ @ _____ °F
 INDICATE TYPE AND SIZE OF GAS MEASURING DEVICE USED _____ Merla 2" Orifice Tester

Date Time	a.m. p.m.	Choke Size	Surface Pressure psi	Gas Rate MCF	Liquid Rate BPD	Remarks
1630						Called out. Ready now.
1740						On location. Rig coming out of hole.
1900						Picked up tool.
1930						Went in the hole.
2254						Tool on bottom.
2300						Opened tool off bottom of bucket.
2305						Gas to surface.
2310		1/2"	40	285		
2315		"	55	362		
2330		"	70	440		
2345		"	65	414		
3-24-77 0000		"	58	378		
0015		"	40	285		
0030		"	35	260		Closed tool.
0145						Opened tool.
0200			38	275		
0215			30	231		
0230			25	205		
0245			20	177		
0300			16	153		
0315			13	134		
0330			10	116		
0345			10	116		Closed tool.
0500						Off bottom.

Gauge No.		6763		Depth		4324'		Clock No.		7096		12 hour		Ticket No.		190564	
First Flow Period		Closed In Pressure		Second Flow Period		Closed In Pressure		Second Flow Period		Closed In Pressure		Third Flow Period		Closed In Pressure		Third Flow Period	
Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\log \frac{t+\theta}{\theta}$	Time Defl. .000"	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"	PSIG Temp. Corr.	Time Defl. .000"	$\log \frac{t+\theta}{\theta}$	Time Defl. .000"	PSIG Temp. Corr.
0 .0000	83	.0000		.0000	199	.0000	164	.0000		.0000	302						
1 .0674*	143	.0334	1.287	.0736**	203	.0397***	1.562	.0728	1.309	.0397***	1.562	.0728	1.309	.0397***	1.562	.0728	1.309
2 .1280	172	.0668	1.008	.1538	216	.1059	1.156	.1059	1.156	.1059	1.156	.1059	1.156	.1059	1.156	.1059	1.156
3 .1886	185	.1002	.0852	.2341	223	.1390	1.047	.1390	1.047	.1390	1.047	.1390	1.047	.1390	1.047	.1390	1.047
4 .2492	191	.1336	.747	.3144	234	.1721	.963	.1721	.963	.1721	.963	.1721	.963	.1721	.963	.1721	.963
5 .3098	190	.1670	.669	.3946	245	.2052	.896	.2052	.896	.2052	.896	.2052	.896	.2052	.896	.2052	.896
6 .3705	189	.2004	.608	.4749	255	.2382	.840	.2382	.840	.2382	.840	.2382	.840	.2382	.840	.2382	.840
7 .4311	189	.2338	.559	.5551	266	.2713	.792	.2713	.792	.2713	.792	.2713	.792	.2713	.792	.2713	.792
8 .4917	191	.2672	.518	.6354	280	.3044	.750	.3044	.750	.3044	.750	.3044	.750	.3044	.750	.3044	.750
9 .5523	194	.3006	.483	.7157	285	.3375	.714	.3375	.714	.3375	.714	.3375	.714	.3375	.714	.3375	.714
10 .6130	199	.3340	.453	.7960	302	.3706	.681	.3706	.681	.3706	.681	.3706	.681	.3706	.681	.3706	.681
11		.3674	.426			.4037	.652	.4037	.652	.4037	.652	.4037	.652	.4037	.652	.4037	.652
12		.4008	.403			.4368	.626	.4368	.626	.4368	.626	.4368	.626	.4368	.626	.4368	.626
13		.4342	.382			.4699	.602	.4699	.602	.4699	.602	.4699	.602	.4699	.602	.4699	.602
14		.4676	.364			.5030	.580	.5030	.580	.5030	.580	.5030	.580	.5030	.580	.5030	.580
15		.5010	.347														

Gauge No.		6762		Depth		4361'		Clock No.		2476		12 hour	
Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\log \frac{t+\theta}{\theta}$	Time Defl. .000"	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"	PSIG Temp. Corr.
0 .0000	121	.0000		.0000	167	.0000	167	.0000		.0000	306		
1 .0673*	162	.0336	1.284	.0736**	207	.0399***	1.560	.0399***	1.560	.0399***	1.560	.0399***	1.560
2 .1278	193	.0672	1.005	.1538	219	.1065	1.153	.1065	1.153	.1065	1.153	.1065	1.153
3 .1883	203	.1008	.850	.2341	226	.1399	1.044	.1399	1.044	.1399	1.044	.1399	1.044
4 .2488	207	.1344	.745	.3144	238	.1731	.961	.1731	.961	.1731	.961	.1731	.961
5 .3093	204	.1680	.667	.3946	249	.2063	.893	.2063	.893	.2063	.893	.2063	.893
6 .3699	202	.2016	.606	.4749	258	.2396	.837	.2396	.837	.2396	.837	.2396	.837
7 .4304	200	.2352	.557	.5551	270	.2729	.790	.2729	.790	.2729	.790	.2729	.790
8 .4909	201	.2688	.515	.6354	285	.3062	.748	.3062	.748	.3062	.748	.3062	.748
9 .5514	204	.3024	.581	.7157	291	.3395	.712	.3395	.712	.3395	.712	.3395	.712
10 .6120	208	.3360	.450	.7960	306	.3727	.679	.3727	.679	.3727	.679	.3727	.679
11		.3696	.424			.4060	.650	.4060	.650	.4060	.650	.4060	.650
12		.4032	.401			.4394	.624	.4394	.624	.4394	.624	.4394	.624
13		.4368	.380			.4726	.600	.4726	.600	.4726	.600	.4726	.600
14		.4704	.362			.5060	.578	.5060	.578	.5060	.578	.5060	.578
15		.5040	.345										

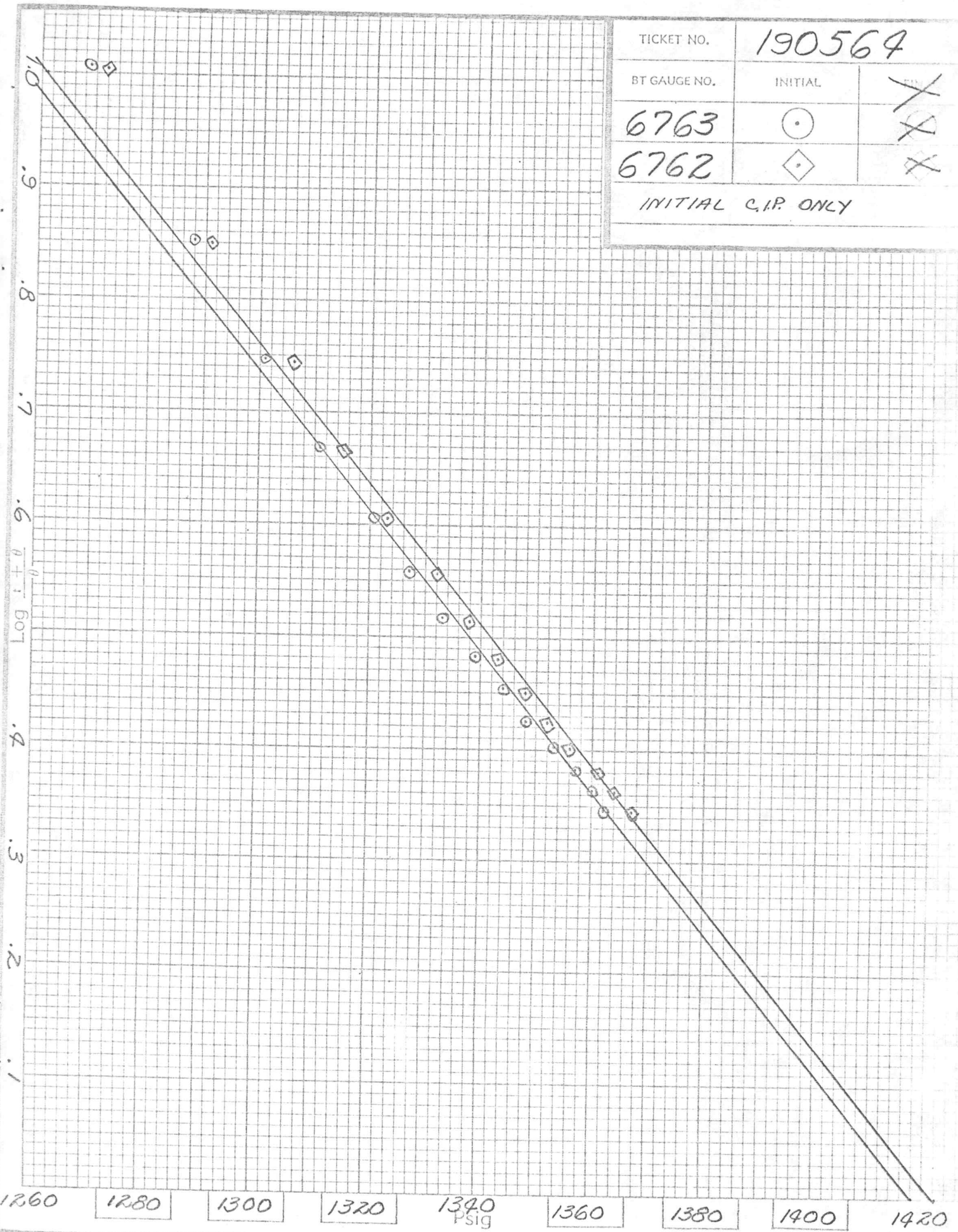
Gauge No.		6762		Depth		4361'		Clock No.		2476		12 hour	
Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\log \frac{t+\theta}{\theta}$	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\log \frac{t+\theta}{\theta}$	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.
0 .0000	121	.0000		.0000	167	.0000	167	.0000		.0000	306		
1 .0673*	162	.0336	1.284	.0736**	207	.0399***	1.560	.0399***	1.560	.0399***	1.560	.0399***	1.560
2 .1278	193	.0672	1.005	.1538	219	.1065	1.153	.1065	1.153	.1065	1.153	.1065	1.153
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5 .3093	204	.1680	.667	.3946	249	.2063	.893	.2063	.893	.2063	.893	.2063	.893
6 .3699	202	.2016	.606	.4749	258	.2396	.837	.2396	.837	.2396	.837	.2396	.837
7 .4304	200	.2352	.557	.5551	270	.2729	.790	.2729	.790	.2729	.790	.2729	.790
8 .4909	201	.2688	.515	.6354	285	.3062	.748	.3062	.748	.3062	.748	.3062	.748
9 .5514	204	.3024	.581	.7157	291	.3395	.712	.3395	.712	.3395	.712	.3395	.712
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11		.3696	.424			.4060	.650	.4060	.650	.4060	.650	.4060	.650
12		.4032	.401			.4394	.624	.4394	.624	.4394	.624	.4394	.624
13		.4368	.380			.4726	.600	.4726	.600	.4726	.600	.4726	.600
14		.4704	.362			.5060	.578	.5060	.578	.5060	.578	.5060	.578
15		.5040	.345										

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Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\log \frac{t+\theta}{\theta}$	Time Defl. .000"	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"	PSIG Temp. Corr.
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11		.3696	.424			.4060	.650	.4060	.650	.4060	.650	.4060	.650
12		.4032	.401			.4394	.624	.4394	.624	.4394	.624	.4394	.624
13		.4368	.380			.4726	.600	.4726	.600	.4726	.600	.4726	.600
14		.4704	.362			.5060	.578	.5060	.578	.5060	.578	.5060	.578
15		.5040	.345										

Gauge No.		6762		Depth		4361'		Clock No.		2476		12 hour	
Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\log \frac{t+\theta}{\theta}$	Time Defl. .000"	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"	PSIG Temp. Corr.
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5 .3093	204	.1680	.667	.3946	249	.2063	.893	.2063	.893	.2063	.893	.2063	.893
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7 .4304	200	.2352	.557	.5551	270	.2729	.790	.2729	.790	.2729	.790	.2729	.790
8 .4909	201	.2688	.515	.6354	285	.3062	.748	.3062	.748	.3062	.748	.3062	.748
9 .5514	204	.3024	.581	.7157	291	.3395	.712	.3395	.712	.3395	.712	.3395	.712
10 .6120	208	.3360	.450	.7960	306	.3727	.679	.3727	.679	.3727	.679	.3727	.679
11		.3696	.424			.4060	.650	.4060	.650	.4060	.650	.4060	.650
12		.4032	.401			.4394	.624	.4394	.624	.4394	.624	.4394	.624
13		.4368	.380			.4726	.600	.4726	.600	.4726	.600	.4726	.600
14		.4704	.362			.5060	.578	.5060	.578	.5060	.578	.5060	.578
15		.5040	.345										

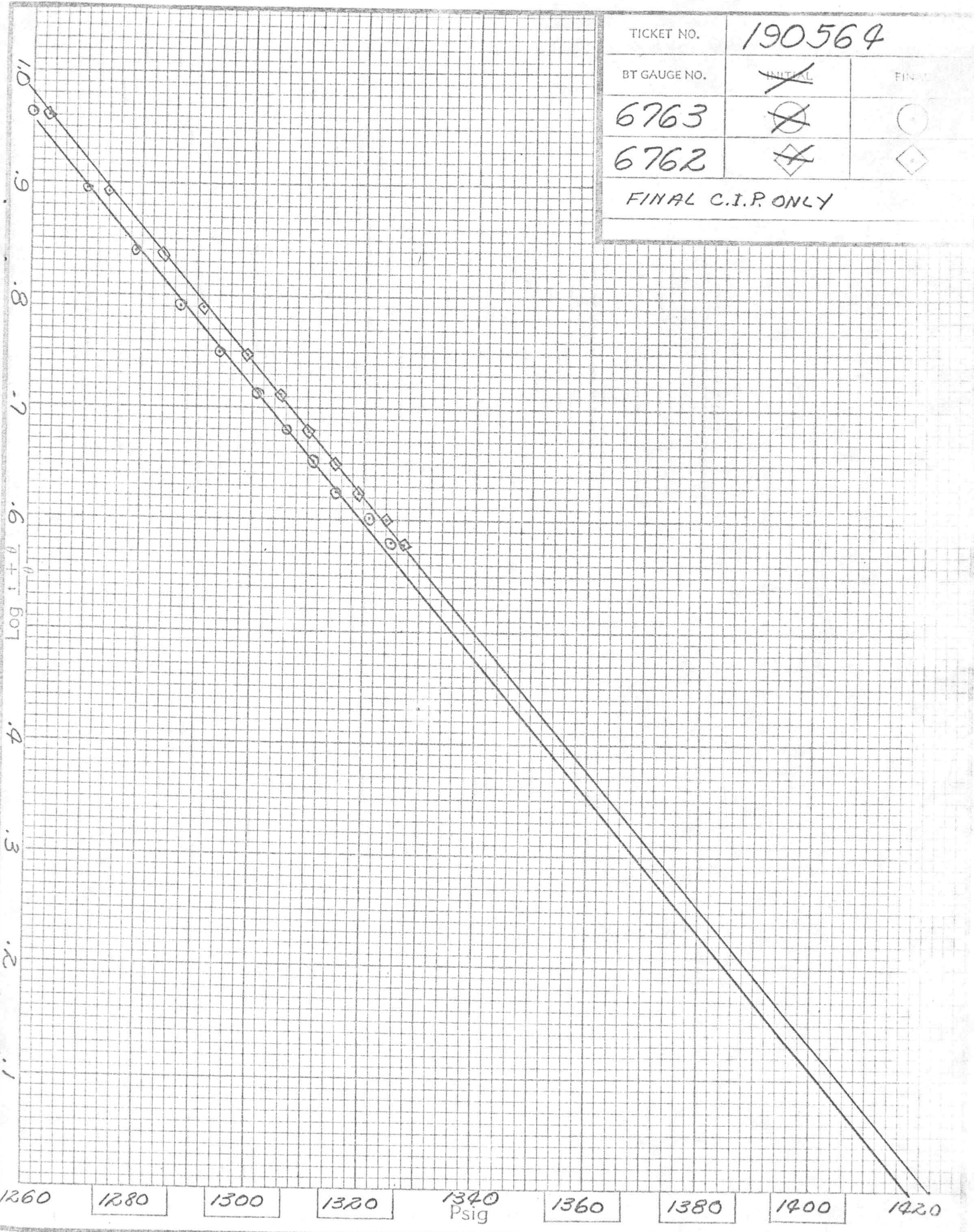
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TICKET NO.	190564	
BT GAUGE NO.	INITIAL	
6763		
6762		
INITIAL C.I.P. ONLY		



EXTRAPOLATED PRESSURE GRAPH

TICKET NO.	190564	
BT GAUGE NO.	INITIAL	FINAL
6763	⊗	◯
6762	⊠	◊
FINAL C.I.P. ONLY		



EXTRAPOLATED PRESSURE GRAPH

Liquid Production

B.T. Gauge Numbers			6763	6762	Ticket Number	190564
			PRESSURE	PRESSURE		
Initial Hydrostatic			2011	2033	Elevation	1524 ft.
Final Hydrostatic			2011	2033	1st Flow	- bbls./day
1st Flow	Initial	Time	83	121	Indicated Production	40 * bbls./day
	Final	91	199	208	2nd Flow	- bbls./day
	Closed In Pressure	75	1362	1367	3rd Flow	- bbls./day
2nd Flow	Initial	-	164	167	Drill Collar Length	540 ft.
	Final	119	302	306	Drill Collar I.D.	2.25 in.
	Closed In Pressure	76	1325	1327	Drill Pipe Factor	.01422 bbls./ft.
3rd Flow	Initial	Time			Hole Size	7.875 in.
	Final				Footage Tested	15 Est. ft.
	Closed In Pressure				Mud Weight	9.1 lbs./gal.
Extrapolated			1st	1418	Viscosity, Oil or Water	0.5 Est. ** cp
Static Pressure			2nd	1418	Oil API Gravity	34
			3rd	-	Water Specific Gravity	-
Slope P/10			1st	1257	Temperature	132 °F
			2nd	1253		
			3rd	-		

Remarks: * CALCULATED PRODUCTION RATE IS FOR TOTAL LIQUID PRODUCTION; OF WHICH APPROXIMATELY 72% IS OIL AND 28% IS WATER, BASED ON REPORTED RECOVERY.

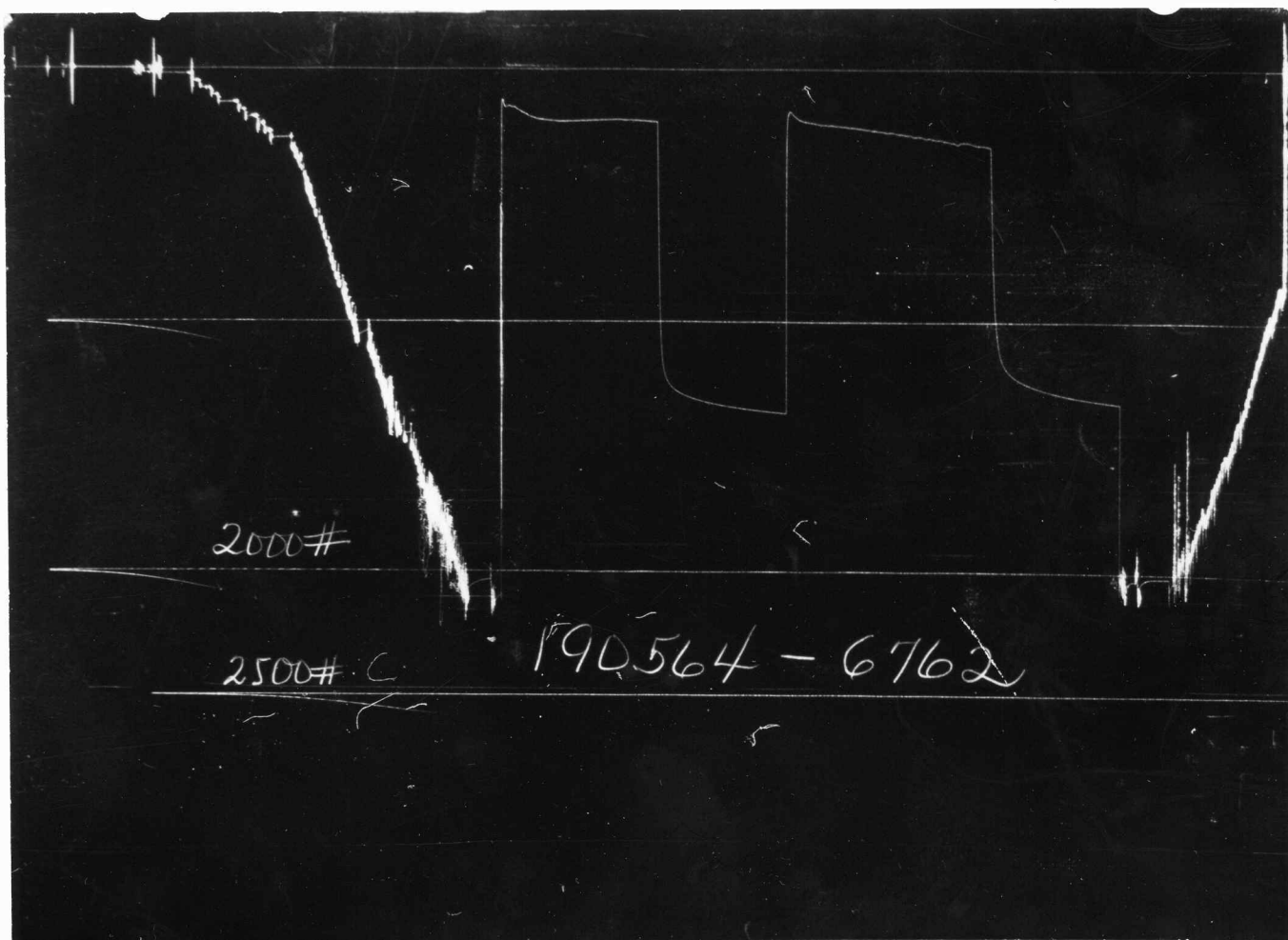
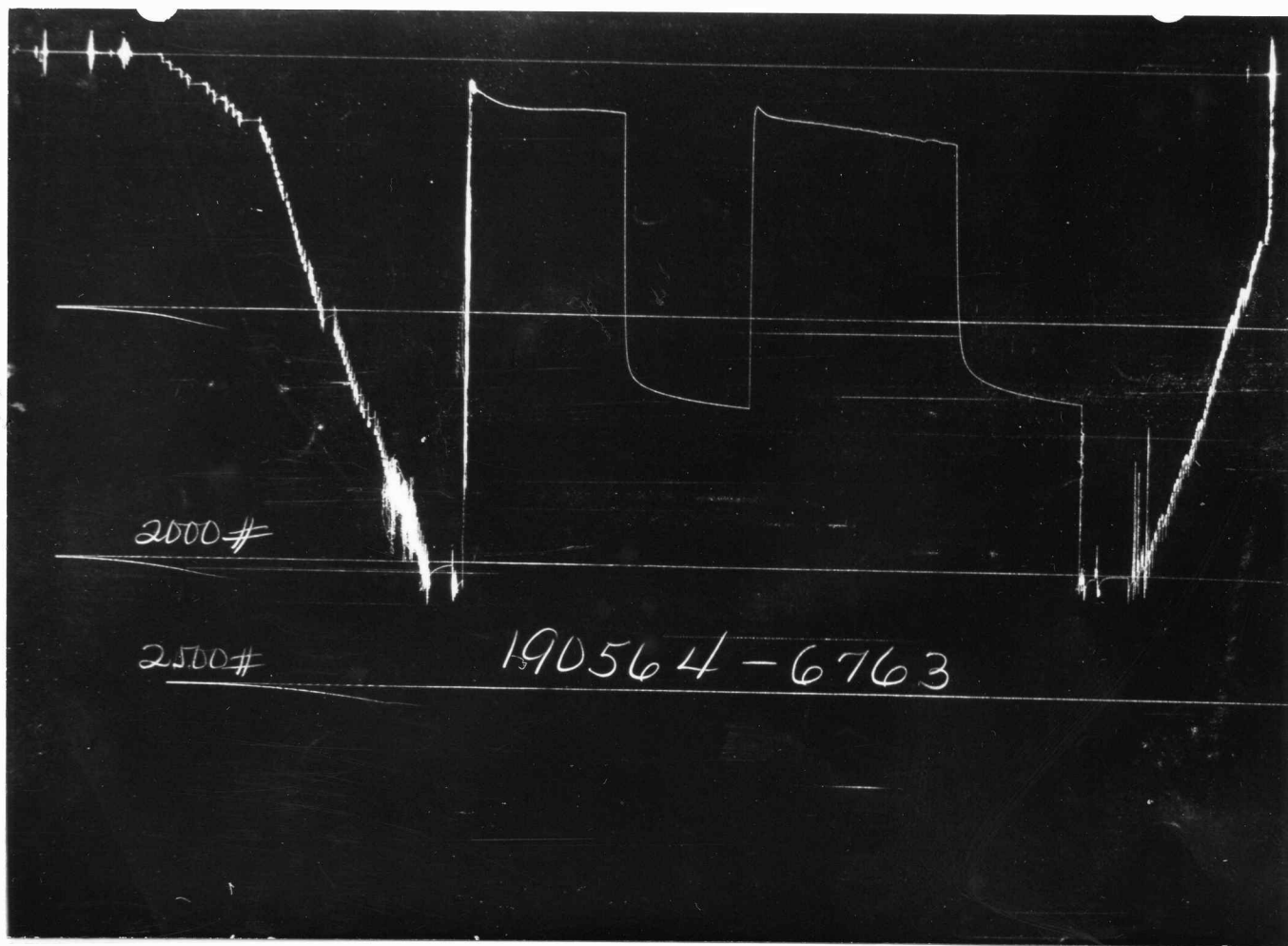
** VISCOSITY USED IN CALCULATIONS HAS BEEN CORRECTED FOR 34 GRAVITY CRUDE OIL, HAVING AN ESTIMATED G. O. R. OF 2000 CUBIC FEET PER BARREL.

SUMMARY		B.T. Gauge No. 6763			B.T. Gauge No. 6762		
		Depth 4324'			Depth 4361'		
PRODUCT	EQUATION	FIRST	SECOND	THIRD	FIRST	SECOND	THIRD
Production	$Q = \frac{1440 R}{t}$		43			40	
Transmissibility	$\frac{Kh}{\mu} = \frac{162.6 Q}{m}$		42.693			39.399	
Indicated Flow Capacity	$Kh = \frac{Kh}{\mu} \mu$		21.347			19.700	
Average Effective	$K = \frac{Kh}{h}$		-			-	
Permeability	$K_i = \frac{Kh}{h_i}$		1.424			1.314	
Damage Ratio	$DR = .183 \frac{P_s - P_f}{m}$		1.238			1.238	
Theoretical Potential w/Damage Removed	$Q_i = Q DR$		54			49	
Approx. Radius of Investigation	$b \approx \sqrt{Kt}$ or $\sqrt{Kt_0}$		-			-	
	$b_1 \approx \sqrt{K_1 t}$ or $\sqrt{K_1 t_0}$		17			17	
Potentiometric Surface *	$Pot. = EI - GD + 2.319 P_s$		488			461	

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	5.75"	2.50"	1'	
Water Cushion Valve				
Drill Pipe	4.50"	3.826"	3751'	
Drill Collars	6"	2.25"	540'	
Handling Sub & Choke Assembly	5"	2.50"	5'	
Dual CIP Valve	5"	.87"	5'	4318'
Dual CIP Sampler				
Hydro-Spring Tester	5"	.75"	5'	4323'
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	3.75"	4'	4324'
Hydraulic Jar	5"	1"	5'	
VR Safety Joint	5"	1"	3'	
Pressure Equalizing Crossover				
Packer Assembly	6.75"	1.53"	6'	4339'
Distributor				
Packer Assembly	6.75"	1.53"	6'	4345'
Flush Joint Anchor	5"	2.37"	13'	
Pressure Equalizing Tube				
HT. 500 TEMP				
Blanked-Off B.T. Running Case	5"	2.50"	4'	4360'
				4361'
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				4365'

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.

Legal Location
Sec. - Twp. - Rng.

34-30S-7W

Field
Area
Med. From Tester Valve

County

KINGMAN

State

KANSAS

Lease Name
NORRIS

Well No.
2

Test No.
3

4658 - 4744'
Tested Interval

HICKS PETROLEUM COMPANY INCORPORATE
Lease Owner/Company Name

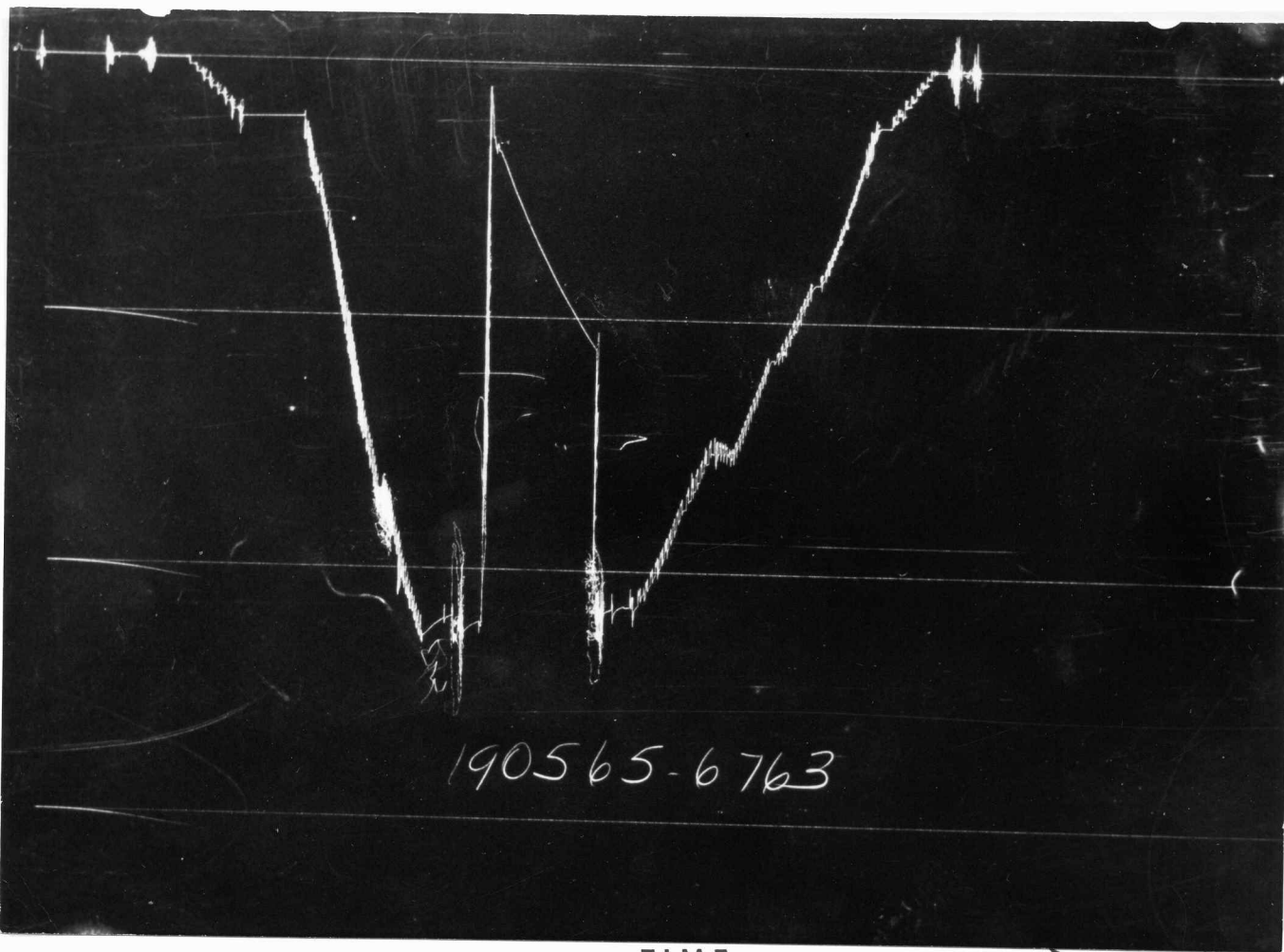
FLUID SAMPLE DATA				Date 3-26-77		Ticket Number 190565	
Sampler Pressure _____ P.S.I.G. at Surface				Kind of Job OPEN HOLE		Halliburton District PRATT	
Recovery: Cu. Ft. Gas _____ cc. Oil _____ cc. Water _____ cc. Mud _____ Tot. Liquid cc. _____				Tester G. SMYLLIE		Witness MR. STEVENS	
Gravity _____ ° API @ _____ °F.				Drilling Contractor THOMAS DRILLING COMPANY # 8 sm			
Gas/Oil Ratio _____ cu. ft./bbl.				EQUIPMENT & HOLE DATA			
RESISTIVITY _____ CHLORIDE CONTENT _____				Formation Tested Simpson			
Recovery Water @ _____ °F. _____ ppm				Elevation 1524' derrick floor Ft.			
Recovery Mud @ _____ °F. _____ ppm				Net Productive Interval 4' Ft.			
Recovery Mud Filtrate @ _____ °F. _____ ppm				All Depths Measured From Derrick floor			
Mud Pit Sample @ _____ °F. _____ ppm				Total Depth 4744' Ft.			
Mud Pit Sample Filtrate @ _____ °F. _____ ppm				Main Hole/Casing Size 7 7/8"			
Mud Weight 9.1 vis 40 sec				Drill Collar Length 480' I.D. 2.25"			
				Drill Pipe Length 4146' I.D. 3.826"			
				Packer Depth(s) 4652-4658' Ft.			
				Depth Tester Valve 4636' Ft.			
TYPE		AMOUNT		Depth Back		Surface	
Cushion				Ft. Pres. Valve		Choke 1/4"	
						Bottom Choke 3/4"	
Recovered		310 Feet of gas cut muddy water					
Recovered		750 Feet of light oil & gas cut water					
Recovered		1360 Feet of salt water					
Recovered		Feet of					
Recovered		Feet of					
Remarks		TIGHT HOLE.....SEE PRODUCTION TEST DATA SHEET					
TEMPERATURE		Gauge No. 6763		Gauge No. 6762		Gauge No.	
Depth: 4637 Ft.		Depth: 4740 Ft.		Depth: Ft.		TIME	
Est. °F.		12 Hour Clock		12 Hour Clock		Hour Clock	
Blanked Off NO		Blanked Off yes		Blanked Off		Tool A.M.	
4739'						Opened 0315 P.M.	
Actual 151 °F.		Pressures		Pressures		Pressures	
		Field Office		Field Office		Field Office	
Initial Hydrostatic		2212		2250 2242		Reported Computed	
First Period Flow Initial		96		154 171		Minutes Minutes	
Flow Final		1128		1172 1179		60	
Closed in							
Second Period Flow Initial							
Flow Final							
Closed in							
Third Period Flow Initial							
Flow Final							
Closed in							
Final Hydrostatic		2155		2187 2205			

Casing perfs. _____ Bottom choke _____ Surf. temp. _____ °F Ticket No. 190565
Gas gravity _____ Oil gravity _____ GOR _____
Spec. gravity _____ Chlorides _____ ppm Res. _____ @ _____ °F
INDICATE TYPE AND SIZE OF GAS MEASURING DEVICE USED Merla 2" orifice tester

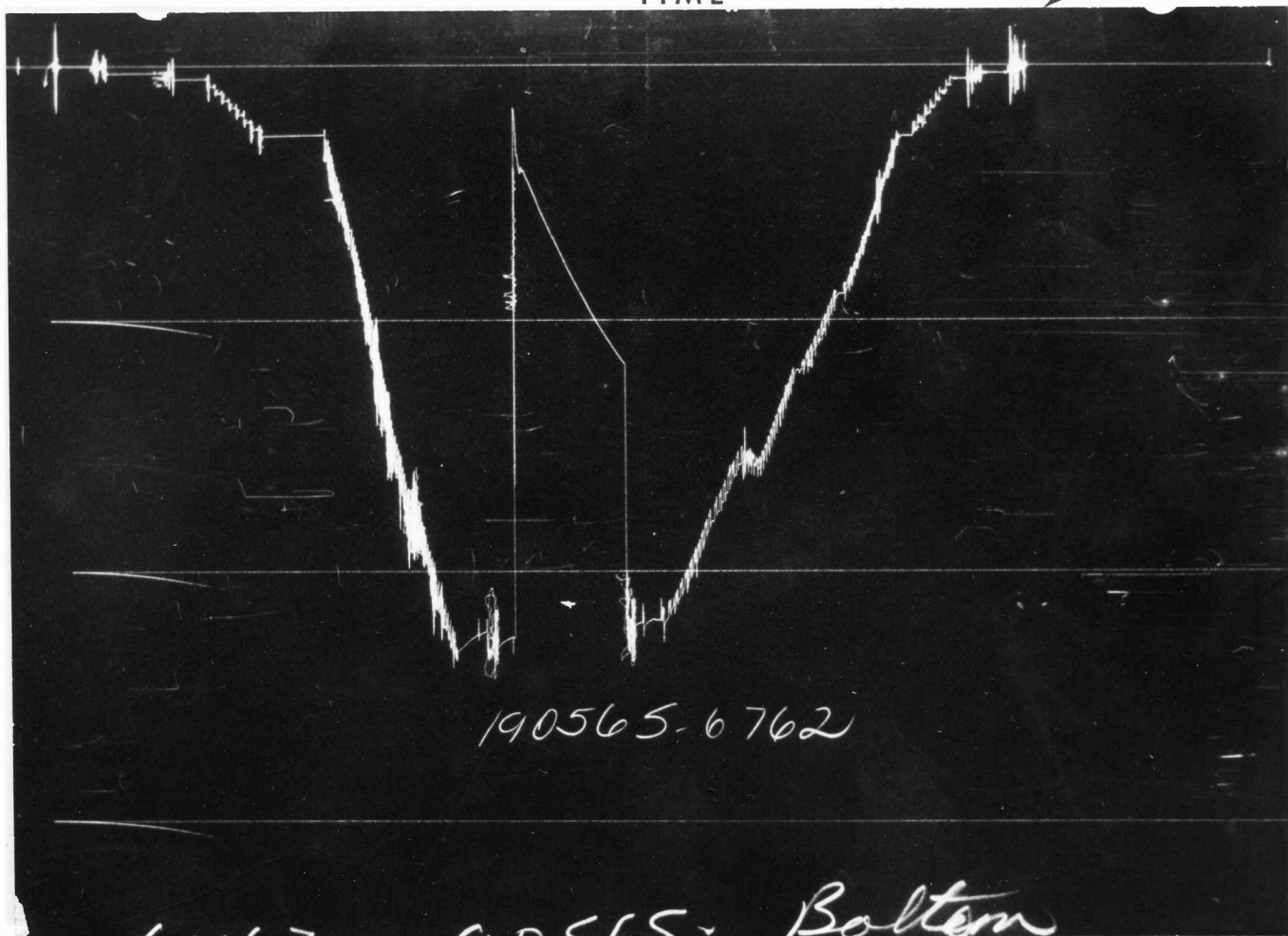
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	O. D.	I. D.	LENGTH	DEPTH
Drill Pipe or Tubing	5.75"	2.50"	1'	
Reversing Sub				
Water Cushion Valve				
Drill Pipe	4½"	3.826"	4146'	
Drill Collars	6"	2.25"	480'	
Handling Sub & Choke Assembly	5"	2.50"	5'	
Dual CIP Valve	5"	.87"	5'	4631'
Dual CIP Sampler				
Hydro-Spring Tester	5"	.75"	5'	4636'
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	3.75"	4'	4637'
Hydraulic Jar	5"	1"	5'	
VR Safety Joint	5"	1"	3'	
Pressure Equalizing Crossover				
Packer Assembly	6.75"	1.53"	6'	4652'
Distributor				
Packer Assembly	6.75"	1.53"	6'	4658'
	5"	2.37"	10'	
Flush Joint Anchor				
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	6"	2.25"	60'	
Flush Joint Anchor	5"	2.37"	5'	
Blanked-Off B.T. Running Case	5"	2.50"	4'	4740'
Total Depth				4744'

↓ PRESSURE

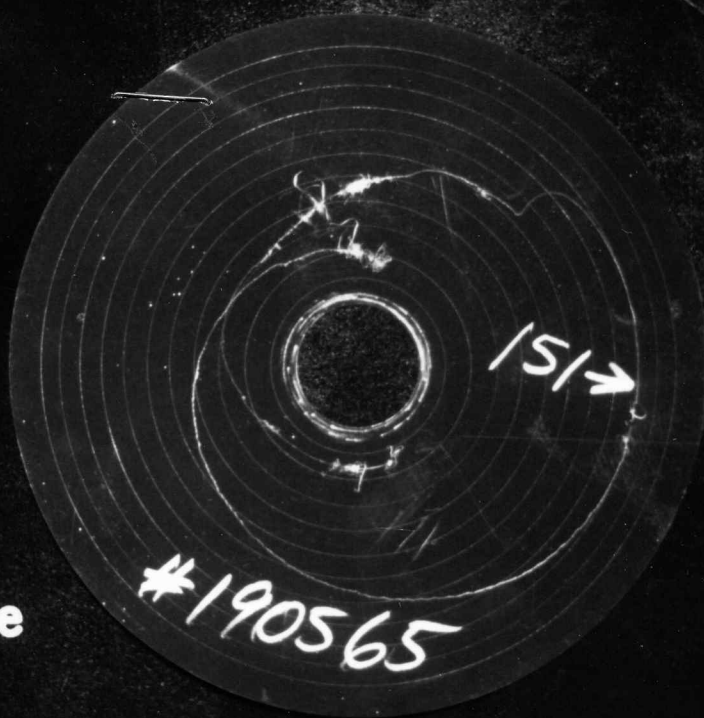


→ TIME



190565-6762 Boltern
Each Horizontal Line Equal to 1000 p.s.i.

TEMPERATURE RECORDER CHART



10° each circle

Q_3 = Theoretical Open Flow

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.