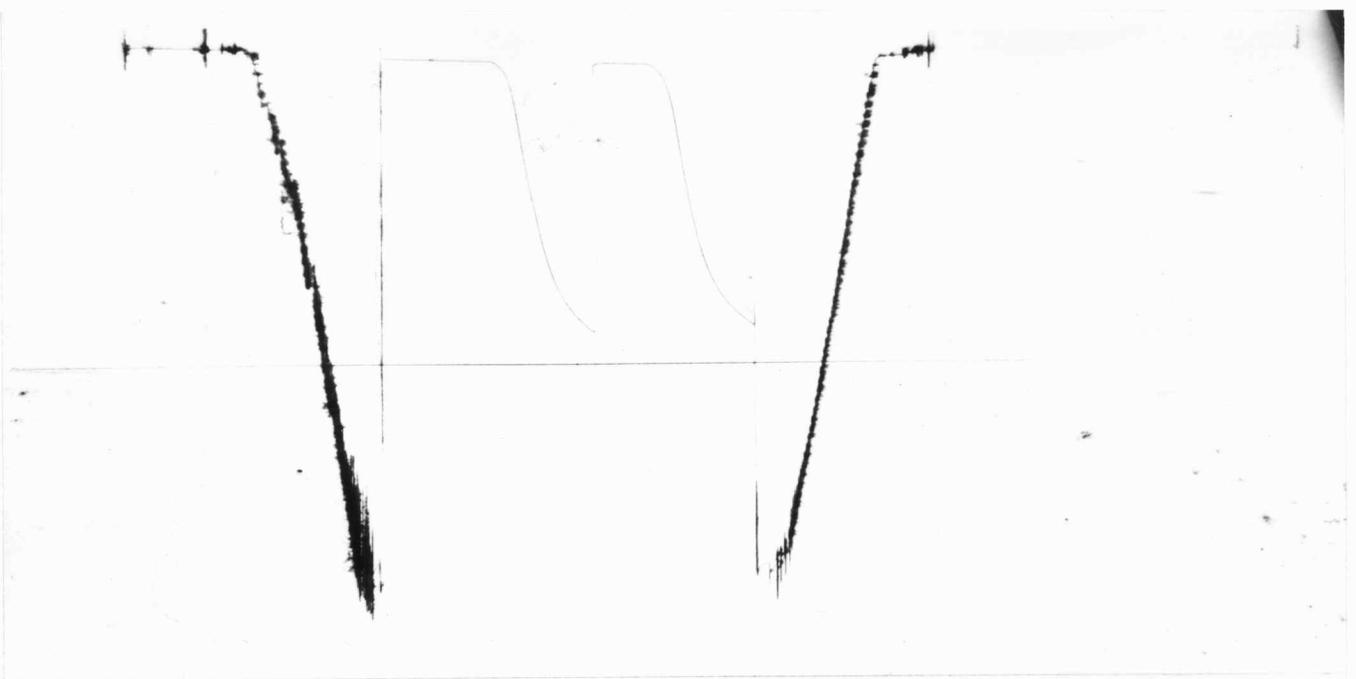
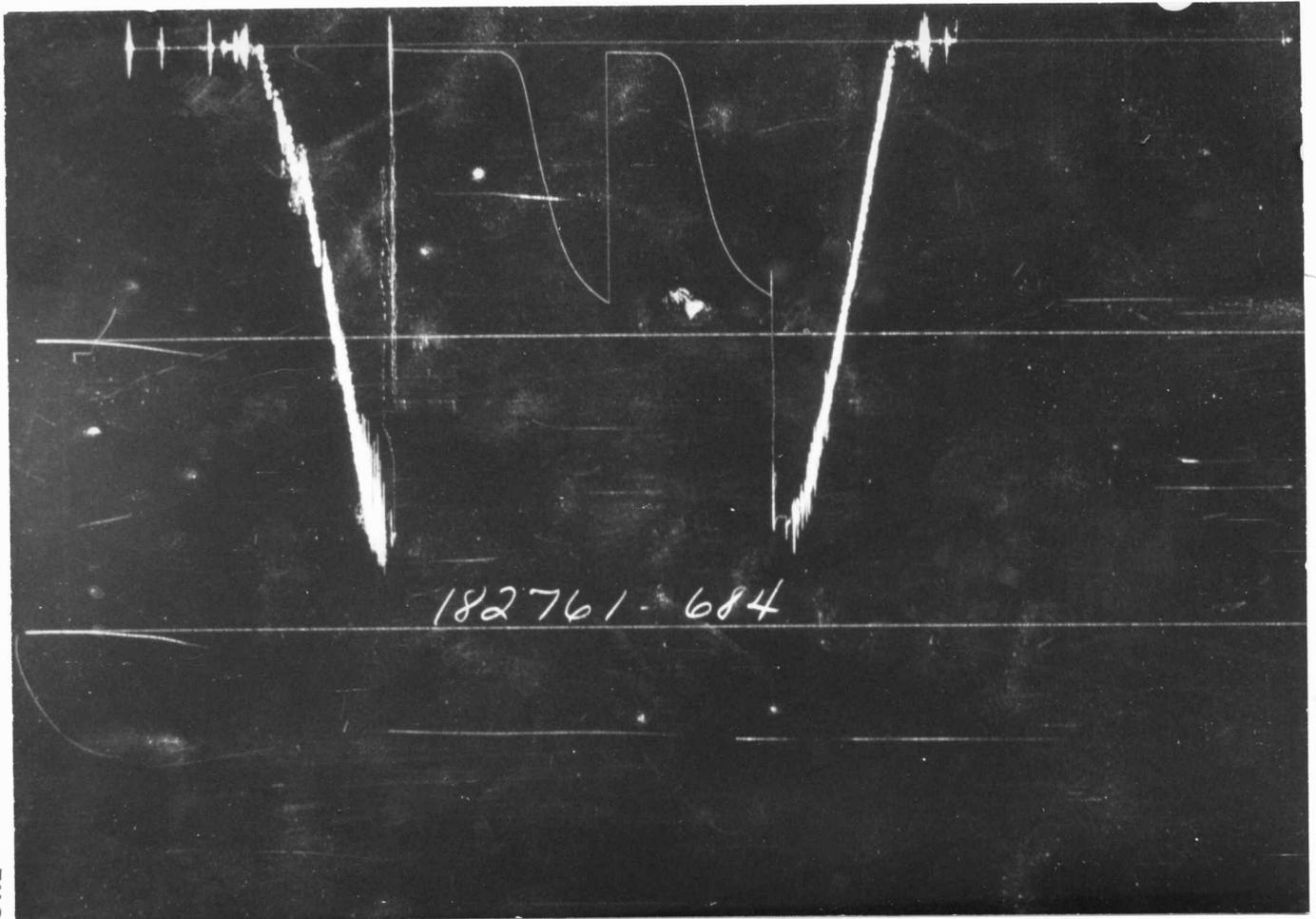








	O. D.	I. D.	LENGTH	DEPTH
Drill Pipe or Tubing	5.75"	2.75"	1'	
Reversing Sub				
Water Cushion Valve				
Drill Pipe	4 1/2"	3.826"	2614'	
Drill Collars	4 1/2"	2.764"	676'	
Handling Sub & Choke Assembly				
Dual CIP Valve	5"	.87"	5'	3253'
Dual CIP Sampler				
Hydro-Spring Tester	5"	.75"	5'	3258'
Multiple CIP Sampler				
Extension Joint				
AP Running Case				
Hydraulic Jar				
VR Safety Joint	5"	1"	3'	
Pressure Equalizing Crossover				
Packer Assembly	6.75"	1.53"	4'	3264'
Distributor				
Packer Assembly	6.75"	1.53"	4'	3268'
Flush Joint Anchor				
Pressure Equalizing Tube				
Blanked-Off B.T. Running Case	5	3.06"	4'	3270'
Drill Collars				
Anchor Pipe Safety Joint				
Packer Assembly				
Distributor				
Packer Assembly				
Anchor Pipe Safety Joint				
Side Wall Anchor				
Drill Collars				
Flush Joint Anchor	5"	3.84"	14'	
Blanked-Off B.T. Running Case	5"	2.44"	4'	3286'
Total Depth				3290'



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

FLUID SAMPLE DATA				Date <u>7-3-77</u>		Ticket Number <u>182845</u>	
Sampler Pressure _____ P.S.I.G. at Surface				Kind of Job <u>OPEN HOLE</u>		Halliburton District <u>HAYS</u>	
Recovery: Cu. Ft. Gas _____				Tester <u>CARL KENNEDY</u>		Witness <u>F. BROOKS</u>	
cc. Oil _____				Drilling Contractor <u>ABERCROMBIE DRILLING COMPANY</u> DR			
cc. Water _____				EQUIPMENT & HOLE DATA			
cc. Mud _____				Formation Tested <u>Topeka</u>			
Tot. Liquid cc. _____				Elevation <u>2233'</u> KB Ft.			
Gravity _____ ° API @ _____ °F.		Gas/Oil Ratio _____ cu. ft./bbl.		Net Productive Interval _____ Ft.			
RESISTIVITY _____		CHLORIDE CONTENT _____		All Depths Measured From <u>Kelly Bushing</u>			
Recovery Water _____ @ _____ °F. _____ ppm		Recovery Mud _____ @ _____ °F. _____ ppm		Total Depth <u>3460'</u> Ft.			
Recovery Mud Filtrate _____ @ _____ °F. _____ ppm		Mud Pit Sample _____ @ _____ °F. _____ ppm		Main Hole/Casing Size <u>7 7/8"</u>			
Mud Pit Sample Filtrate _____ @ _____ °F. _____ ppm		Mud Weight <u>9.7</u> vis <u>43</u> sec		Drill Collar Length <u>676'</u> WP I.D. <u>2.764"</u>			
				Drill Pipe Length <u>2729'</u> I.D. <u>3.826"</u>			
				Packer Depth(s) <u>3422-3426'</u> Ft.			
				Depth Tester Valve <u>3416'</u> Ft.			
TYPE		AMOUNT		Depth Back		Surface	
Cushion				Ft. Pres. Valve		Choke	
						<u>1/4"</u> Bottom Choke <u>3/4"</u>	
Recovered		<u>164</u> Feet of		muddy water with slight trace of oil			
Recovered		Feet of					
Recovered		Feet of					
Recovered		Feet of					
Recovered		Feet of					
Remarks		SEE PRODUCTION TEST DATA SHEET					
TEMPERATURE		Gauge No. <u>684</u>		Gauge No. <u>528</u>		Gauge No.	
Depth: <u>3428</u> Ft.		Depth: <u>3456</u> Ft.		Depth: _____ Ft.		TIME	
Est. <u>104</u> °F.		<u>12</u> Hour Clock		<u>12</u> Hour Clock		Hour Clock	
Blanked Off <u>NO</u>		Blanked Off <u>YES</u>		Blanked Off		Tool _____ A.M.	
Actual _____ °F.		Pressures		Pressures		Opened <u>1925</u> P.M.	
		Field Office		Field Office		Opened _____ A.M.	
		Field Office		Field Office		Bypass _____ P.M.	
Initial Hydrostatic		<u>1743</u>		<u>1846</u> <u>1775</u>		Reported _____ Computed _____	
Flow Initial		<u>17</u>		<u>35</u> <u>36</u>		Minutes _____ Minutes _____	
Flow Final		<u>60</u>		<u>69</u> <u>78</u>		_____ _____	
Closed in		<u>1120</u>		<u>1146</u> <u>1150</u>		<u>60</u> <u>60</u>	
Flow Initial		<u>69</u>		<u>86</u> <u>96</u>		_____ _____	
Flow Final		<u>101</u>		<u>121</u> <u>122</u>		<u>60</u> <u>60</u>	
Closed in		<u>1102</u>		<u>1129</u> <u>1138</u>		<u>60</u> <u>60</u>	
Flow Initial						_____ _____	
Flow Final						_____ _____	
Closed in						_____ _____	
Final Hydrostatic		<u>1730</u>		<u>1811</u> <u>1769</u>		_____ _____	

Legal Location Sec. - Twp. - Rng. CW 1/2 SE-SE-Sec. 21 T-13S-R-20  
 Lease Name \_\_\_\_\_ Well No. \_\_\_\_\_ Test No. \_\_\_\_\_  
 County \_\_\_\_\_ Tested Interval \_\_\_\_\_  
 State \_\_\_\_\_  
 Lease Owner/Company Name KEUUCU MANAGEMENT CORPORATION  
 County ELLIS State KANSAS

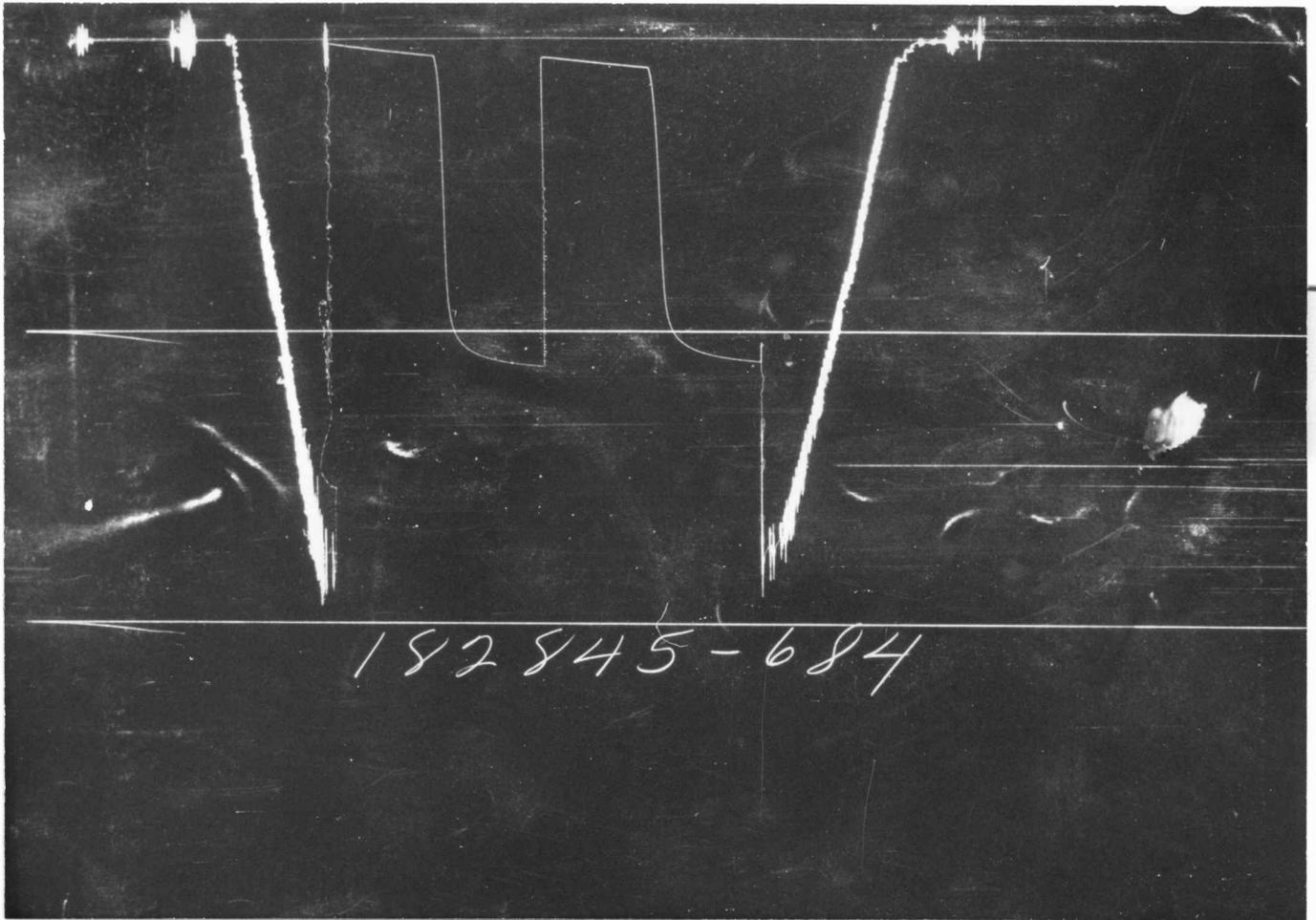




Gauge No. 684		Depth 3428'		Clock No. 16165		12 hour		Ticket No. 182845	
First Flow Period		First Closed In Pressure		Second Flow Period		Second Closed In Pressure		Third Flow Period	
Time Defl. .000"	PSIG Temp. Corr.								
Log $\frac{t + \theta}{\theta}$		Log $\frac{t + \theta}{\theta}$		Log $\frac{t + \theta}{\theta}$		Log $\frac{t + \theta}{\theta}$		Log $\frac{t + \theta}{\theta}$	
0	.000	17	60	.000	69	.000	101		
1	.0693	24	304	.0285	72	.0287	307		
2	.1387	33	790	.0569	78	.0575	810		
3	.2080	40	1008	.0854	84	.0862	983		
4	.2773	47	1044	.1139	90	.1149	1024		
5	.3467	54	1067	.1424	96	.1437	1045		
6	.4160	60	1078	.1708	101	.1724	1059		
7			1088	.1993		.2011	1069		
8			1096	.2278		.2298	1076		
9			1102	.2562		.2586	1083		
10			1106	.2847		.2873	1087		
11			1110	.3132		.3160	1091		
12			1114	.3416		.3448	1094		
13			1116	.3701		.3735	1097		
14			1119	.3986		.4022	1099		
15			1120	.4270		.4310	1102		
Gauge No. 528		Depth 3456'		Clock No. 4773		hour 12		Minutes	
Time Defl. .000"	PSIG Temp. Corr.								
Log $\frac{t + \theta}{\theta}$		Log $\frac{t + \theta}{\theta}$		Log $\frac{t + \theta}{\theta}$		Log $\frac{t + \theta}{\theta}$		Log $\frac{t + \theta}{\theta}$	
0	.000	36	78	.000	96	.000	122		
1	.0667	41	488	.0657	91	.0265	496		
2	.1333	49	979	.1313	97	.0529	956		
3	.2000	59	1048	.1970	103	.0794	1034		
4	.2667	65	1078	.2627	110	.1059	1064		
5	.3334	72	1096	.3284	116	.1324	1084		
6	.4000	78	1108	.3940	122	.1588	1096		
7			1118			.1853	1105		
8			1124			.2118	1112		
9			1130			.2382	1118		
10			1135			.2647	1122		
11			1141			.2912	1126		
12			1143			.3176	1129		
13			1146			.3441	1134		
14			1147			.3706	1137		
15			1150			.3970	1138		
Reading Interval 10		4		2		2			
REMARKS:									

5

	O. D.	I. D.	LENGTH	DEPTH
Drill Pipe or Tubing				
Reversing Sub	5.75"	1.50"	1'	
Water Cushion Valve				
Drill Pipe	4.50"	3.826"	2729'	
Drill Collars	4 1/2"	2.764"	676' WP	
Handling Sub & Choke Assembly				
Dual CIP Valve	5.0"	.87"	5'	3411'
Dual CIP Sampler				
Hydro-Spring Tester	5.0"	.75"	5'	3416'
Multiple CIP Sampler				
Extension Joint				
AP Running Case				
Hydraulic Jar				
VR Safety Joint	5.0"	1.00"	3'	
Pressure Equalizing Crossover				
Packer Assembly	6.75"	1.53"	4'	3422'
Distributor				
Packer Assembly	6.75"	1.53"	4'	3426'
Flush Joint Anchor				
Pressure Equalizing Tube				
Blanked-Off B.T. Running Case	5.0"	3.06"	4'	3428'
Drill Collars				
Anchor Pipe Safety Joint				
Packer Assembly				
Distributor				
Packer Assembly				
Anchor Pipe Safety Joint				
Side Wall Anchor				
Drill Collars				
Flush Joint Anchor	5.0"	3.82"	26'	
Blanked-Off B.T. Running Case	5.0"	2.44"	4'	3456'
Total Depth				3460'



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

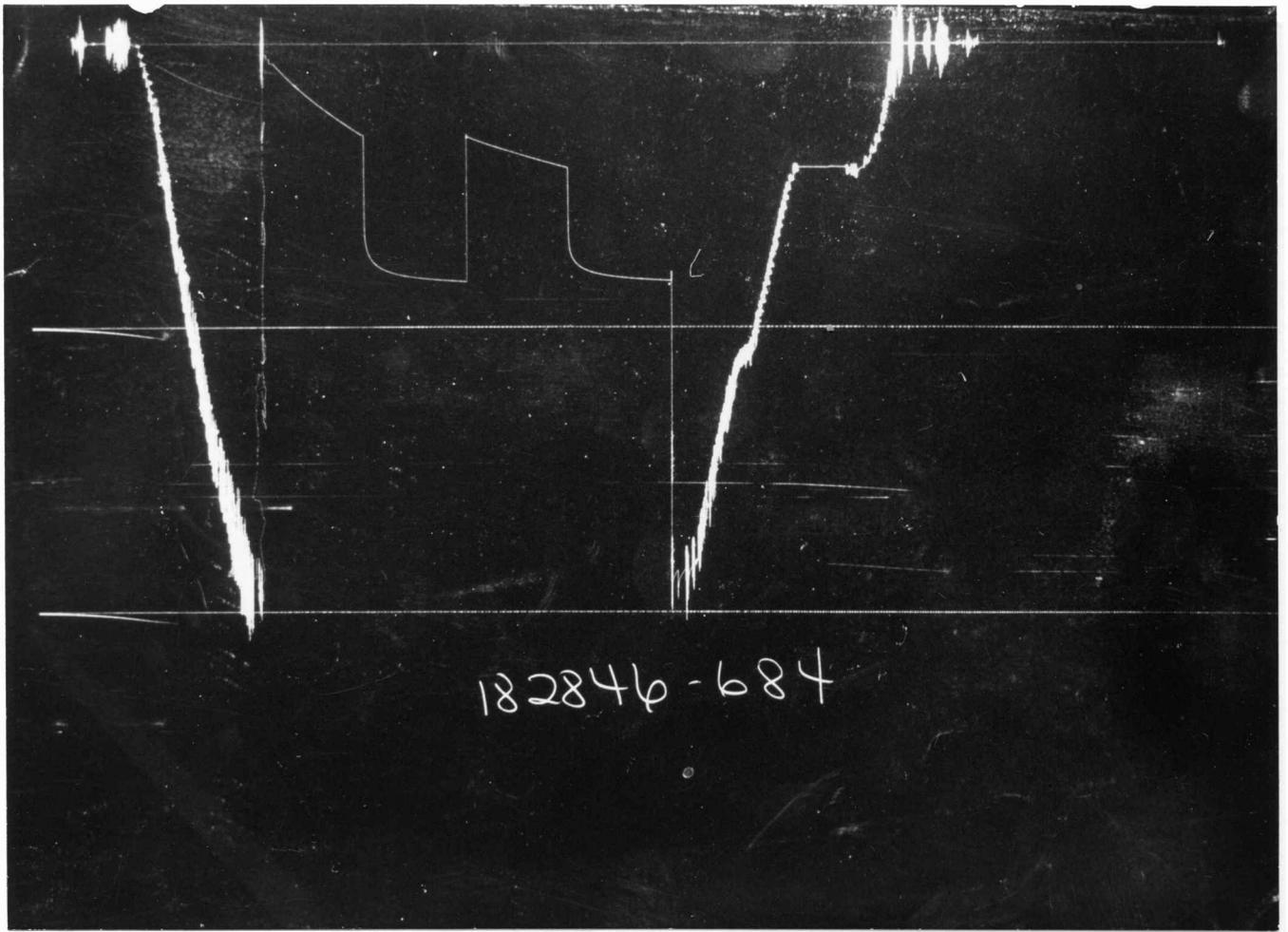




Gauge No.		684		Depth		3545'		Clock No.		16165		12 hour		Ticket No.		182846	
First Flow Period		First Closed In Pressure		Second Flow Period		Second Closed In Pressure		Third Flow Period		Third Closed In Pressure		Time Defl.		PSIG Temp. Corr.		PSIG Temp. Corr.	
Time Defl.	PSIG Temp. Corr.	Time Defl.	PSIG Temp. Corr.	Time Defl.	PSIG Temp. Corr.	Time Defl.	PSIG Temp. Corr.	Time Defl.	PSIG Temp. Corr.	Time Defl.	PSIG Temp. Corr.	Time Defl.	PSIG Temp. Corr.	Time Defl.	PSIG Temp. Corr.	Time Defl.	PSIG Temp. Corr.
.000"		.000"		.000"		.000"		.000"		.000"		.000"		.000"		.000"	
0	.000	40		.000	323	.000	330	.000		.000	438						
1	.0685	93		.0278	755	.0625*	348	.0279		.0279	768						
2	.1370	151		.0556	782	.1320	368	.0557		.0557	789						
3	.2055	202		.0834	796	.2015	388	.0836		.0836	801						
4	.2740	246		.1112	806	.2710	405	.1115		.1115	809						
5	.3425	288		.1390	812	.3405	422	.1394		.1394	814						
6	.4110	323		.1668	818	.4100	438	.1672		.1672	818						
7				.1946	822			.1951		.1951	821						
8				.2224	825			.2230		.2230	824						
9				.2502	828			.2508		.2508	826						
10				.2780	830			.2787		.2787	828						
11				.3058	832			.3066		.3066	830						
12				.3336	833			.3344		.3344	832						
13				.3614	835			.3623		.3623	832						
14				.3892	837			.3902		.3902	834						
15				.4170	838			.4180		.4180	835						
Gauge No.		528		Depth		3583'		Clock No.		4773		12 hour					
0	.000	46		.000	343	.000	351	.000		.000	458						
1	.0658	112		.0267	772	.0600*	368	.0267		.0267	784						
2	.1317	171		.0533	800	.1266	389	.0533		.0533	808						
3	.1975	221		.0800	815	.1932	406	.0800		.0800	821						
4	.2633	266		.1067	826	.2598	425	.1067		.1067	828						
5	.3292	308		.1334	833	.3264	441	.1334		.1334	835						
6	.3950	343		.1600	839	.3930	458	.1600		.1600	838						
7				.1867	843			.1867		.1867	842						
8				.2134	846			.2134		.2134	844						
9				.2400	849			.2400		.2400	847						
10				.2667	850			.2667		.2667	849						
11				.2934	853			.2934		.2934	850						
12				.3200	855			.3200		.3200	852						
13				.3467	856			.3467		.3467	854						
14				.3734	858			.3734		.3734	855						
15				.4000	859			.4000		.4000	855						
Reading Interval		10				10				4						Minutes	
REMARKS: * = 9 minute interval.																	

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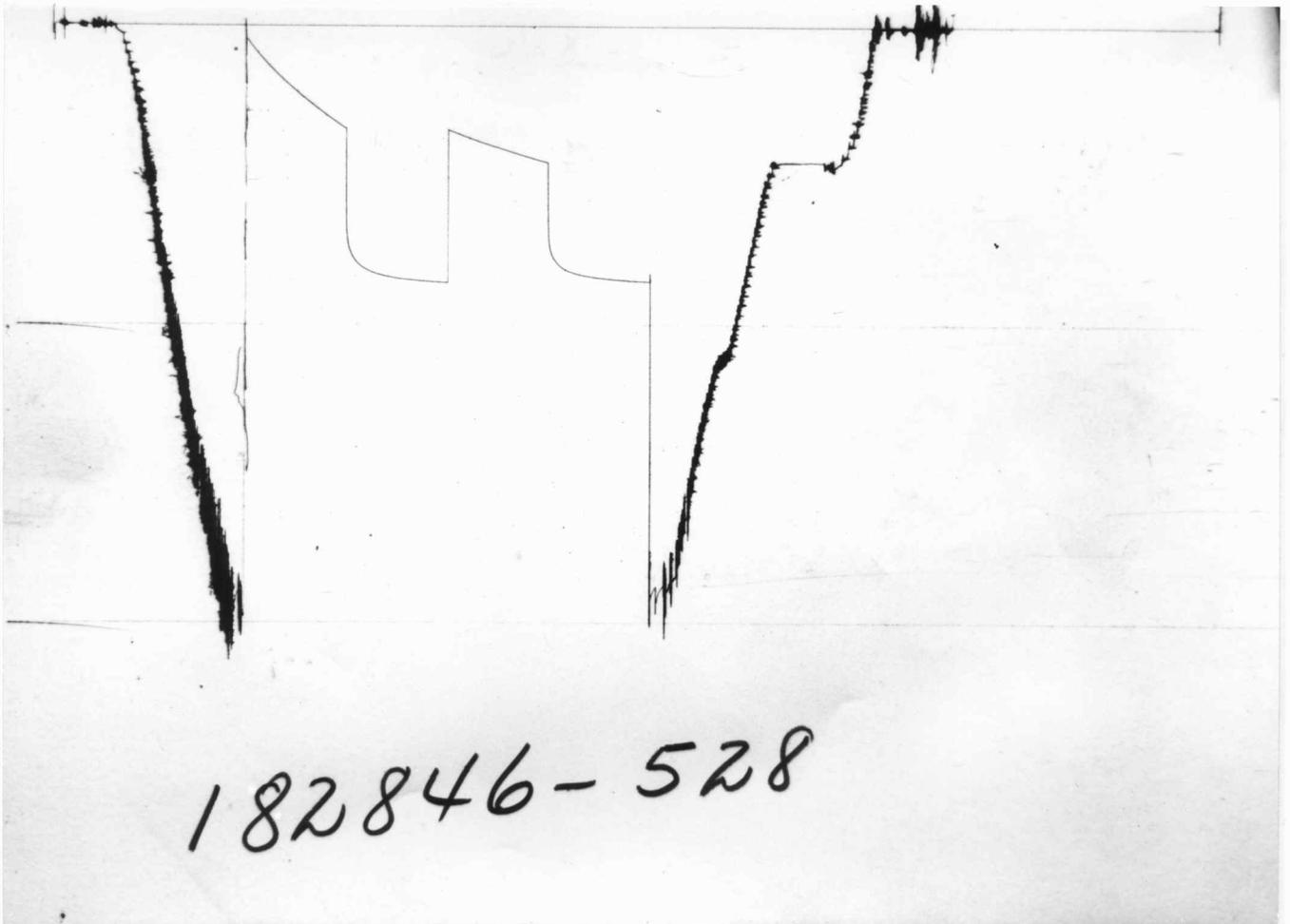
	O. D.	I. D.	LENGTH	DEPTH
Drill Pipe or Tubing	5.75"	1.50"	1'	
Reversing Sub				
Water Cushion Valve				
Drill Pipe	4.50"	3.826"	2846'	
<del>Drill Collars</del> Weight Pipe	4.50"	2.764"	676'	
Handling Sub & Choke Assembly				
Dual CIP Valve	5.0"	.87"	5'	3528'
Dual CIP Sampler				
Hydro-Spring Tester	5.0"	.75"	5'	3533'
Multiple CIP Sampler				
Extension Joint				
AP Running Case				
Hydraulic Jar				
VR Safety Joint	5.0"	1.00"	3'	
Pressure Equalizing Crossover				
Packer Assembly	6.75"	1.53"	4'	3539'
Distributor				
Packer Assembly	6.75"	1.53"	4'	3543'
Flush Joint Anchor				
Pressure Equalizing Tube				
Blanked-Off B.T. Running Case	5.0"	3.06"	4'	3545'
Drill Collars				
Anchor Pipe Safety Joint				
Packer Assembly				
Distributor				
Packer Assembly				
Anchor Pipe Safety Joint				
Side Wall Anchor				
Drill Collars				
Flush Joint Anchor	5.0"	3.82"	34'	
Blanked-Off B.T. Running Case	5.0"	2.44"	4'	3583'
Total Depth				3587'



182846-684

↑  
PRESSURE

← TIME →



182846-528

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





Gauge No.		684		Depth		3712'		Clock No.		16165		12 hour		Ticket No.		182847	
First Flow Period		Second Flow Period		Third Flow Period		Fourth Flow Period		Fifth Flow Period		Sixth Flow Period		Seventh Flow Period		Eighth Flow Period		Ninth Flow Period	
Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.
0	.000	22		.000	33	.000	32	.000	32	.000	32	.000	32	.000	32	.000	32
1	.418	25		.0283	39*	.208	32	.0487	69**	.0904	213	.1321	594	.1738	818	.2155	919
2				.0709	98												
3				.1134	362												
4				.1559	697												
5				.1984	884												
6				.2409	965												
7				.2835	1009												
8				.3260	1039												
9				.3685	1055												
10				.4110	1070												
11																	
12																	
13																	
14																	
15																	

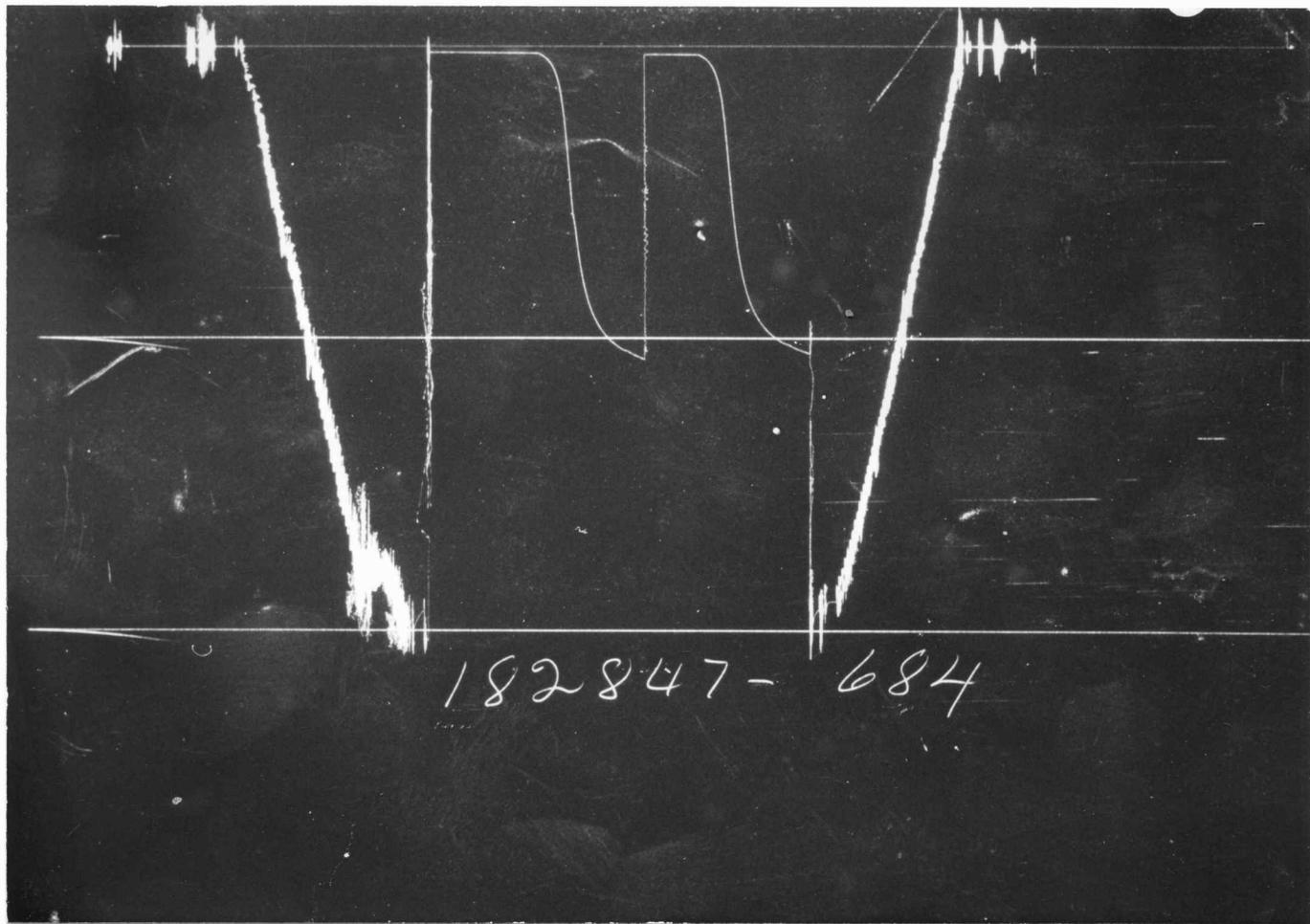
Gauge No.		528		Depth		3731'		Clock No.		4773		12 hour		Minutes			
Time Defl. .000"	PSIG Temp. Corr.																
0	.000	33		.000	34	.000	47	.000	41	.000	41	.000	41	.000	41		
1	.406	34		.0266	47*	.201	41	.0464	76**	.0861	227	.1258	614	.1656	833		
2				.0666	109												
3				.1065	384												
4				.1464	722												
5				.1863	889												
6				.2263	969												
7				.2662	1013												
8				.3061	1041												
9				.3461	1059												
10				.3860	1077												
11																	
12																	
13																	
14																	
15																	

\*-4 minutes

\*\*-7 minutes.

Reading Interval 6

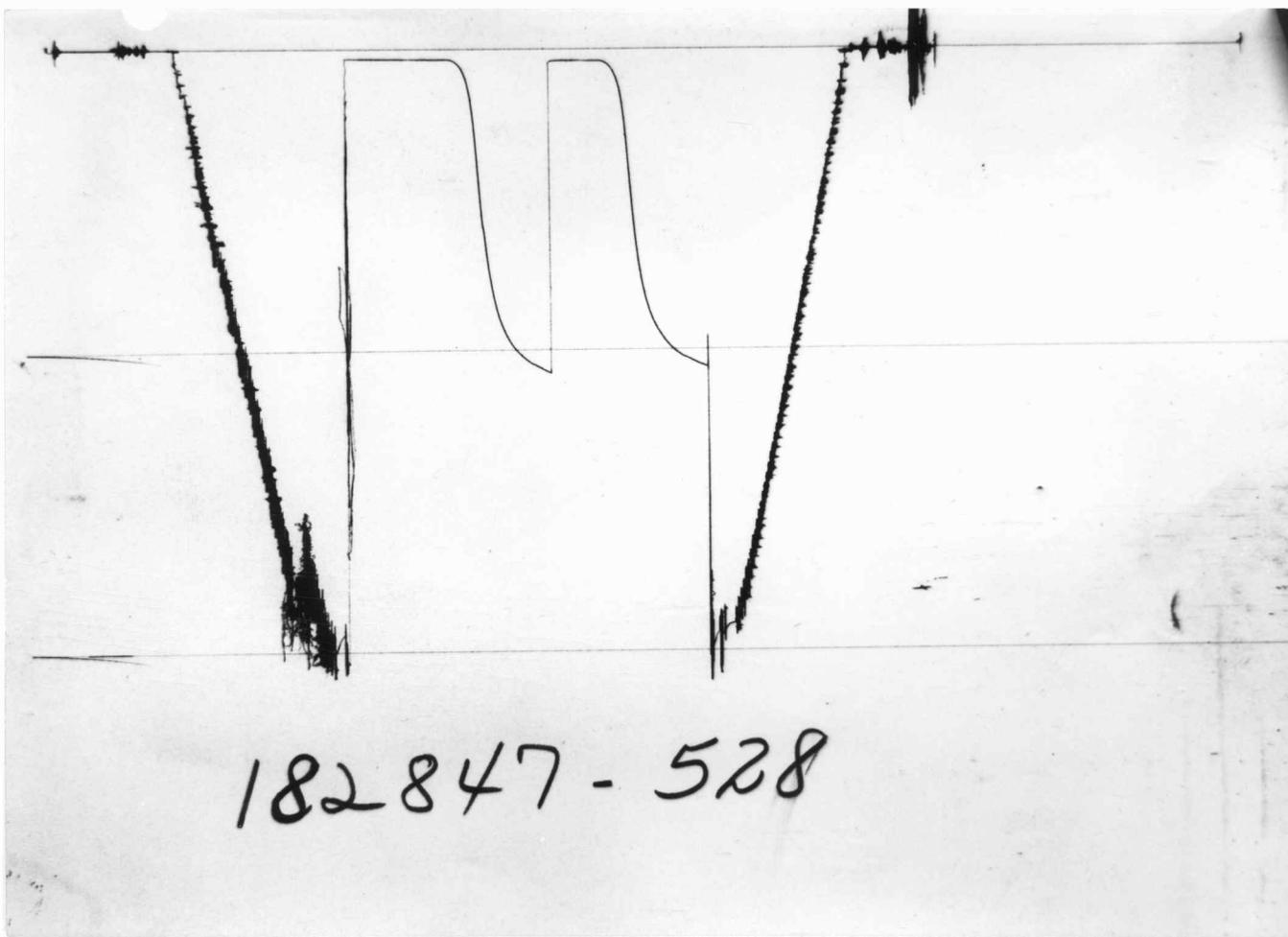
	O. D.	I. D.	LENGTH	DEPTH
Drill Pipe or Tubing				
Reversing Sub	5.75"	1.50"	1'	
Water Cushion Valve				
Drill Pipe	4.5"	3.826"	3014'	
Drill Collars	4½"	2.764"	676' WP	
Handling Sub & Choke Assembly				
Dual CIP Valve	5.0"	.87"	5'	3695'
Dual CIP Sampler				
Hydro-Spring Tester	5.0"	.75"	5'	3700'
Multiple CIP Sampler				
Extension Joint				
AP Running Case				
Hydraulic Jar				
VR Safety Joint	5.0"	1.00"	3'	
Pressure Equalizing Crossover				
Packer Assembly	6.75"	1.53"	4'	3706'
Distributor				
Packer Assembly	6.75"	1.53"	4'	3710'
Flush Joint Anchor				
Pressure Equalizing Tube				
Blanked-Off B.T. Running Case	5.0"	3.06"	4'	3712'
Drill Collars				
Anchor Pipe Safety Joint				
Packer Assembly				
Distributor				
Packer Assembly				
Anchor Pipe Safety Joint				
Side Wall Anchor				
Drill Collars				
Flush Joint Anchor	5.0"	3.826"	16'	
Blanked-Off B.T. Running Case	5.0"	2.44"	4'	3731'
Total Depth				3735'



182847-684

↑  
PRESSURE

TIME →



182847-528

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

FLUID SAMPLE DATA				Date	7-6-77 <th>Ticket Number</th> <td>182762 </td>	Ticket Number	182762
Sampler Pressure _____ P.S.I.G. at Surface				Kind of Job	OPEN HOLE TEST	Halliburton District	HAYS
Recovery: Cu. Ft. Gas _____				Tester	G. PALMBERG	Witness	F. BROOKS
cc. Oil _____				Drilling Contractor	ABERCROMBIE DRILLING COMPANY		PW
cc. Water _____				EQUIPMENT & HOLE DATA			
cc. Mud _____				Formation Tested	Lower Kansas City		
Tot. Liquid cc. _____				Elevation	2233'	K.B.	Ft.
Gravity _____ ° API @ _____ ° F.	RESISTIVITY _____			Net Productive Interval	4'		Ft.
Gas/Oil Ratio _____ cu. ft./bbl.	CHLORIDE CONTENT _____			All Depths Measured From	Kelly Bushing		
Recovery Water _____ @ _____ ° F. _____ ppm				Total Depth	3760'		Ft.
Recovery Mud _____ @ _____ ° F. _____ ppm				Main Hole/Casing Size	7 7/8"		
Recovery Mud Filtrate _____ @ _____ ° F. _____ ppm				Drill Collar Length	632'	I.D. 2.764" WP	
Mud Pit Sample _____ @ _____ ° F. _____ ppm				Drill Pipe Length	3087'	I.D. 3.826"	
Mud Pit Sample Filtrate _____ @ _____ ° F. _____ ppm				Packer Depth(s)	3737' - 3741' Ft.		
Mud Weight 9.6 vis 44 sec				Depth Tester Valve	3731' Ft.		
Cushion	TYPE	AMOUNT	Depth Back Pres. Valve	Surface Choke	1/4"	Bottom Choke	3/4"
Recovered	30	Feet of	watery mud - no show of oil.				
Recovered		Feet of					
Recovered		Feet of					
Recovered		Feet of					
Recovered		Feet of					
Remarks							
SEE PRODUCTION TEST DATA SHEET.....							
TEMPERATURE		Gauge No. 684	Gauge No. 528	Gauge No.	TIME		
Depth: 3743 Ft.		Depth: 3756 Ft.	Depth: _____ Ft.				
Est. 107 °F.	12 Hour Clock	12 Hour Clock	Hour Clock	Tool	A.M.		
Blanked Off NO	Blanked Off YES	Blanked Off		Opened	1500 P.M.		
Actual °F.	Pressures	Pressures	Pressures	Opened	A.M.		
	Field	Office	Field	Bypass	1830 P.M.		
Initial Hydrostatic		1939	2054	2010-Q	Reported	Computed	
First Period	Flow Initial	18	26	27	Minutes	Minutes	
	Flow Final	34	43	44	60	61	
	Closed in	878	887	887	60	60	
Second Period	Flow Initial	44	43	61	30	31	
	Flow Final	44	60	55	60	59	
	Closed in	837	836	844			
Third Period	Flow Initial						
	Flow Final						
	Closed in						
Final Hydrostatic		1963	2002	1976			
Q = Questionable.							

Legal Location Sec. - Twp. - Rng. C-M 1/2 SE SW 21 - 13 S - 20 W  
 Well No. 2  
 Test No. 5  
 Tested Interval 3/41' - 3/60'  
 County ELLIS  
 State KANSAS  
 Lease Owner/Company Name KEDCO MANAGEMENT CORPORATION

SCHUMACHER  
 Lease Name  
 5  
 3/41' - 3/60'  
 Tested Interval  
 KEDCO MANAGEMENT CORPORATION  
 Lease Owner/Company Name

5



Gauge No. 684		Depth 3743'		Clock No. 16165		12 hour		Ticket No. 182762	
First Flow Period		First Closed In Pressure		Second Flow Period		Second Closed In Pressure		Third Flow Period	
Time Defl. .000"	PSIG Temp. Corr.								
$\text{Log} \frac{t + \theta}{\theta}$		$\text{Log} \frac{t + \theta}{\theta}$		$\text{Log} \frac{t + \theta}{\theta}$		$\text{Log} \frac{t + \theta}{\theta}$		$\text{Log} \frac{t + \theta}{\theta}$	
0	.000	18	34	.000	44	.000	44		
1	.0765*	21	186	.0277	44	.0211***	111		
2	.1460	25	560	.0555		.0491	460		
3	.2155	28	659	.0832		.0772	614		
4	.2850	31	712	.1109		.1053	674		
5	.3545	33	746	.1387		.1333	708		
6	.4240	34	772	.1664		.1614	734		
7			793	.1941		.1895	754		
8			810	.2218		.2175	770		
9			824	.2496		.2456	783		
10			836	.2773		.2737	796		
11			846	.3050		.3018	806		
12			855	.3328		.3298	814		
13			863	.3605		.3579	824		
14			871	.3882		.3860	830		
15			878	.4160		.4140	837		

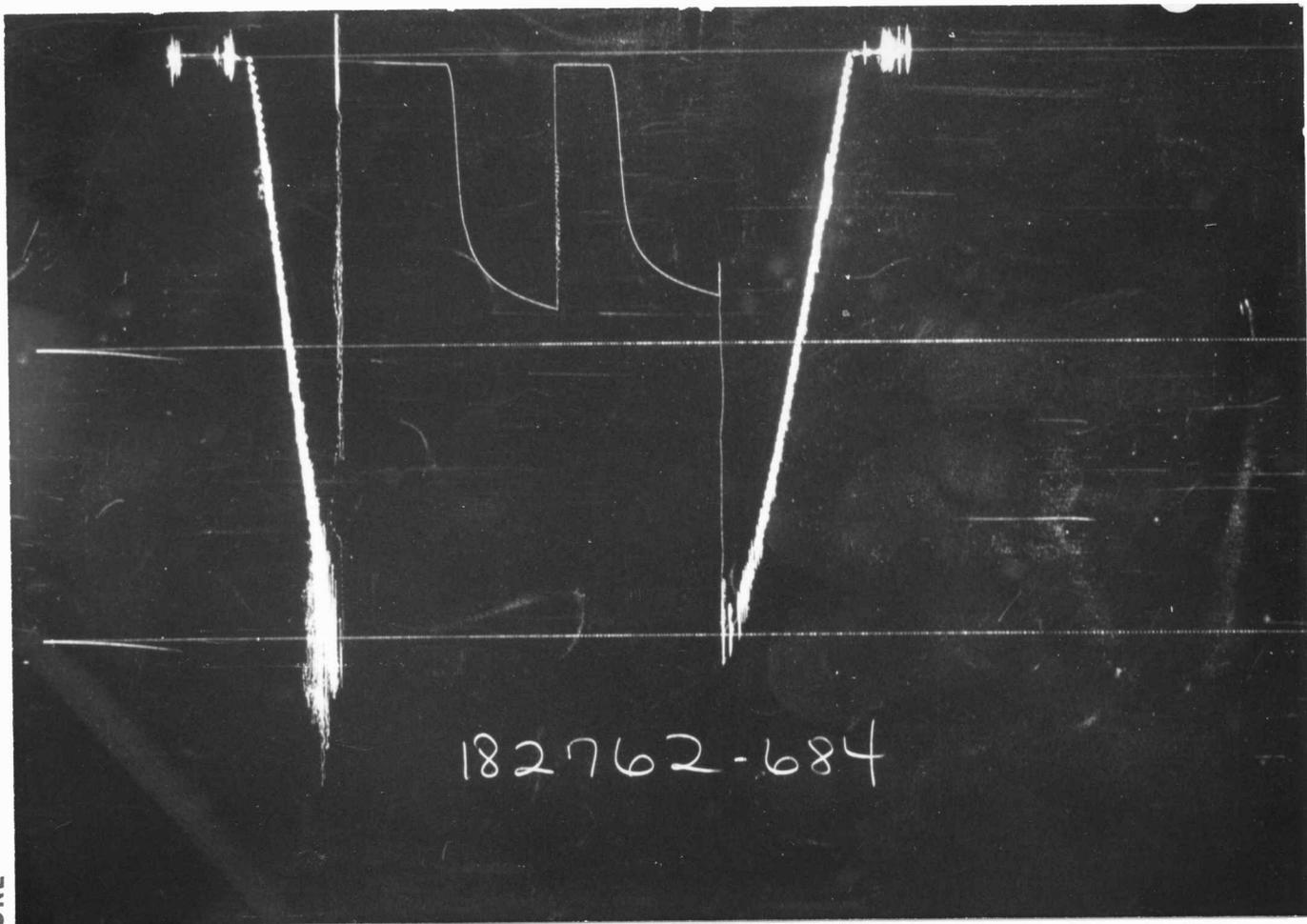
Gauge No. 528		Depth 3756'		Clock No. 4773		12 hour	
Time Defl. .000"	PSIG Temp. Corr.						
$\text{Log} \frac{t + \theta}{\theta}$		$\text{Log} \frac{t + \theta}{\theta}$		$\text{Log} \frac{t + \theta}{\theta}$		$\text{Log} \frac{t + \theta}{\theta}$	
0	.000	27	44	.000	61	.000	55
1	.0736*	31	200	.0265	52	.0199***	122
2	.1405	34	568	.0531	52	.0464	492
3	.2074	38	663	.0796	52	.0729	627
4	.2742	41	717	.1061	53	.0994	681
5	.3411	43	753	.1327	54	.1259	714
6	.4080	44	779	.1592	55	.1524	740
7			799	.1857		.1789	761
8			817	.2122		.2055	777
9			831	.2388		.2320	791
10			843	.2653		.2585	802
11			854	.2918		.2850	813
12			863	.3184		.3115	822
13			871	.3449		.3380	830
14			880	.3714		.3645	838
15			887	.3980		.3910	844

Reading Interval	10	4	5	4	Minutes
REMARKS:	* = 11 minute interval.	** = 6 minute interval.	*** = 3 minute interval.		

57

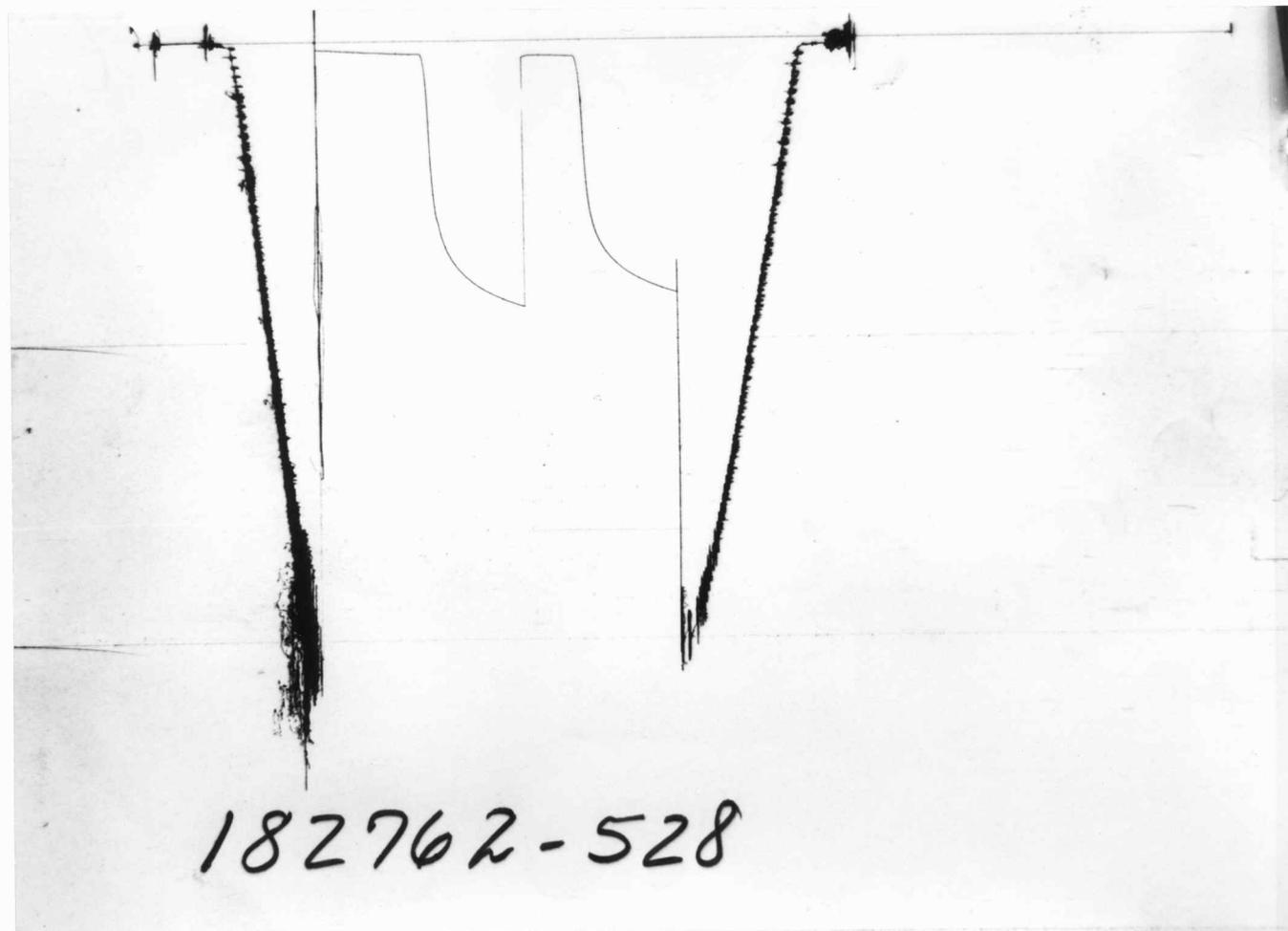
	O. D.	I. D.	LENGTH	DEPTH
Drill Pipe or Tubing .....				
Reversing Sub .....	5.75"	2.75"	1'	
Water Cushion Valve .....				
Drill Pipe .....	4.50"	3.826"	3087'	
Drill Collars <b>Weight Pipe</b> .....	4.50"	2.764"	632'	
Handling Sub & Choke Assembly .....				
Dual CIP Valve .....	5.0"	.87"	5'	3726'
Dual CIP Sampler .....				
Hydro-Spring Tester .....	5.0"	.75"	5'	3731'
Multiple CIP Sampler .....				
Extension Joint .....				
AP Running Case .....				
Hydraulic Jar .....				
VR Safety Joint .....	5.0"	1.0"	3'	
Pressure Equalizing Crossover .....				
Packer Assembly .....	6.75"	1.53"	4'	3737'
Distributor .....				
Packer Assembly .....	6.75"	1.53"	4'	3741'
Flush Joint Anchor .....				
Pressure Equalizing Tube .....				
<del>Blanked-Off</del> B.T. Running Case .....	5.0"	3.06"	4'	3743'
Drill Collars .....				
Anchor Pipe Safety Joint .....				
Packer Assembly .....				
Distributor .....				
Packer Assembly .....				
Anchor Pipe Safety Joint .....				
Side Wall Anchor .....				
Drill Collars .....				
Flush Joint Anchor .....	5.0"	3.84"	11'	
Blanked-Off B.T. Running Case .....	5.0"	2.44"	4'	3756'
Total Depth .....				3760'



182762-684

↑  
PRESSURE  
↓

← TIME →



182762-528

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

FLUID SAMPLE DATA				Date	Ticket Number	
Sampler Pressure _____ P.S.I.G. at Surface				7-7-77	182763	
Recovery: Cu. Ft. Gas _____				Kind of Job	Halliburton District	
cc. Oil _____				OPEN HOLE TEST	HAYS	
cc. Water _____				Tester	G. PALMBERG	
cc. Mud _____				Witness	F. BROOKS	
Tot. Liquid cc. _____				Drilling Contractor	ABERCROMBIE DRILLING COMPANY PW	
Gravity _____ ° API @ _____ ° F.				EQUIPMENT & HOLE DATA		
Gas/Oil Ratio _____ cu. ft./bbl.				Formation Tested	Arbuckle	
RESISTIVITY _____ CHLORIDE CONTENT _____				Elevation	2233' K.B. Ft.	
Recovery Water _____ @ _____ ° F. _____ ppm				Net Productive Interval	4' Ft.	
Recovery Mud _____ @ _____ ° F. _____ ppm				All Depths Measured From	Kelly Bushing	
Recovery Mud Filtrate _____ @ _____ ° F. _____ ppm				Total Depth	3876' Ft.	
Mud Pit Sample _____ @ _____ ° F. _____ ppm				Main Hole/Casing Size	7 7/8"	
Mud Pit Sample Filtrate _____ @ _____ ° F. _____ ppm				Drill Collar Length	632' WP I.D. 2.764" WP	
Mud Weight 10.0 vis 46 sec				Drill Pipe Length	3191' I.D. 3.826"	
				Packer Depth(s)	3841' - 3845' Ft.	
				Depth Tester Valve	3835' Ft.	
Cushion		TYPE	AMOUNT	Depth Back Pres. Valve	Surface Choke	Bottom Choke
				Ft.	1/4"	3/4"
Recovered	40	Feet of	oil cut mud.			
Recovered	120	Feet of	heavy oil cut mud.			
Recovered	120	Feet of	very heavy oil cut mud.			
Recovered	120	Feet of	muddy oil.			
Recovered	400	Feet of	total fluid.			
Remarks		There was not enough free oil for a gravity - did not detect any water.				
		SEE PRODUCTION TEST DATA SHEET.....				
TEMPERATURE		Gauge No. 684	Gauge No. 528	Gauge No.	TIME	
		Depth: 3847 Ft.	Depth: 3872 Ft.	Depth: _____ Ft.		
Est. 108 ° F.		12 Hour Clock	12 Hour Clock	Hour Clock	Tool	A.M.
		Blanked Off NO	Blanked Off YES	Blanked Off	Opened	2140 P.M.
Actual ° F.		Pressures		Pressures		Opened
		Pressures		Pressures		Bypass
		Field	Office	Field	Office	0140 P.M.
Initial Hydrostatic			2020	2159	2088-Q	Reported
Flow Initial			25	35	49	Minutes
Flow Final			120	138	131	Minutes
Closed in			1096	1103	1108	60
Flow Initial			133	138	152	60
Flow Final			192	198	204	60
Closed in			1081	1085	1092	60
Flow Initial						
Flow Final						
Closed in						
Final Hydrostatic			2020	2072	2038	
		Q = Questionable reading.				

Legal Location Sec. - Twp. - Rng. C W 1/2 SE SE 21 - 13 S - 20W

Lease Name C W 1/2 SE SE 21 - 13 S - 20W

Well No. 7

Test No. 0

Tested Interval 0043 - 0010

County ELLIS

State KANSAS

Lease Owner/Company Name NEUV MANAGEMENT I LUKFUKA I IUN

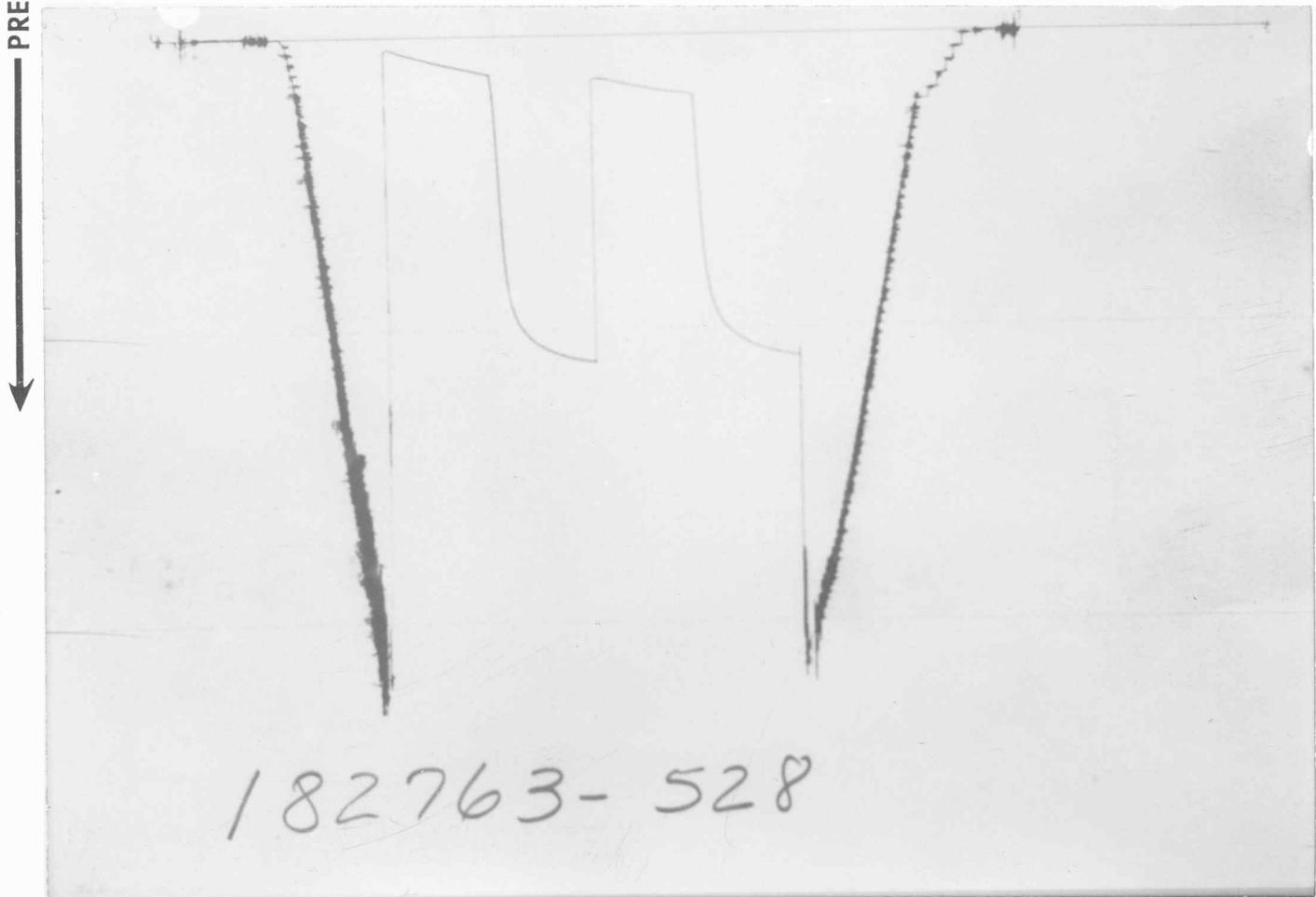
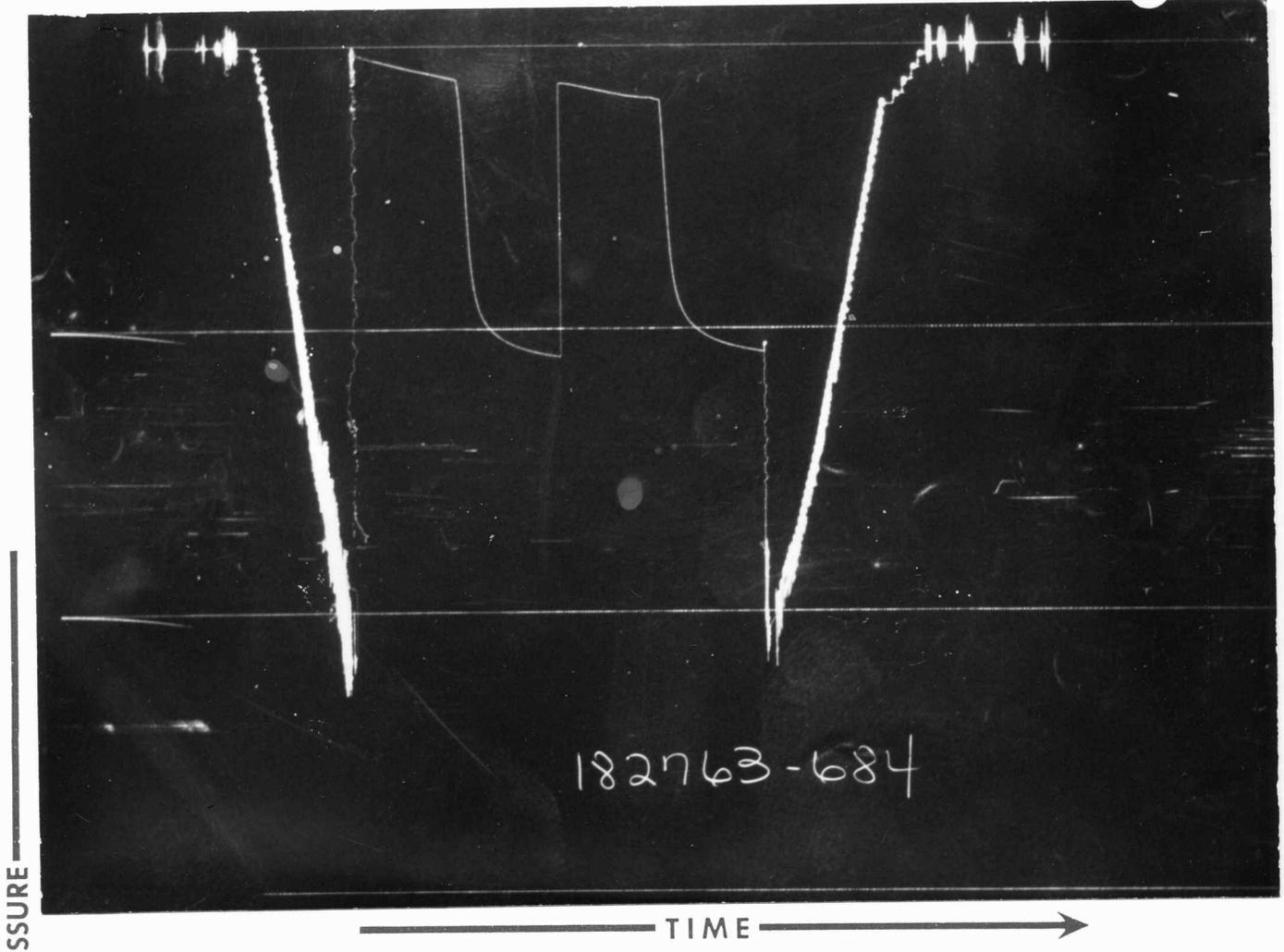


Gauge No. 684		Depth 3847'		Clock No. 16165		12 hour		Ticket No. 182763			
First Flow Period		First Closed In Pressure		Second Flow Period		Second Closed In Pressure		Third Flow Period		Third Closed In Pressure	
Time Defl. .000"	PSIG Temp. Corr.	Log $t + \theta$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Log $t + \theta$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Log $t + \theta$	PSIG Temp. Corr.
0	.000	25	.000	120	.000	.000	133	.000	192		
1	.0766*	48	.0277	417	.0625**	.0276	140	.0276	614		
2	.1463	63	.0553	793	.1320	.0552	152	.0552	846		
3	.2160	78	.0830	924	.2015	.0828	165	.0828	929		
4	.2857	91	.1107	976	.2710	.1104	177	.1104	970		
5	.3553	105	.1384	1005	.3405	.1380	184	.1380	996		
6	.4250	120	.1660	1026	.4100	.1656	192	.1656	1015		
7			.1937	1041		.1932	1029		1029		
8			.2214	1054		.2208	1040		1040		
9			.2490	1063		.2484	1049		1049		
10			.2767	1071		.2760	1057		1057		
11			.3044	1077		.3036	1063		1063		
12			.3320	1084		.3312	1069		1069		
13			.3597	1089		.3588	1073		1073		
14			.3874	1093		.3864	1077		1077		
15			.4150	1096		.4140	1081		1081		
Gauge No. 528											
Depth 3872'											
Clock No. 4773											
12 hour											
0	.000	49	.000	131	.000	.000	152	.000	204		
1	.0738*	59	.0265	436	.0600**	.0265	151	.0265	633		
2	.1408	76	.0529	802	.1266	.0531	164	.0531	852		
3	.2079	91	.0794	929	.1932	.0796	177	.0796	934		
4	.2749	104	.1059	982	.2598	.1061	188	.1061	975		
5	.3420	117	.1324	1014	.3264	.1327	196	.1327	1003		
6	.4090	131	.1588	1034	.3930	.1592	204	.1592	1021		
7			.1853	1051		.1857	206		1036		
8			.2118	1064		.2122	208		1048		
9			.2382	1074		.2388	209		1059		
10			.2647	1083		.2653	210		1066		
11			.2912	1090		.2918	211		1073		
12			.3176	1095		.3184	212		1078		
13			.3441	1100		.3449	213		1084		
14			.3706	1104		.3714	214		1089		
15			.3970	1108		.3980	215		1092		
Reading Interval 10											
4											
4											
Minutes											

REMARKS: \* = 11 minute interval. \*\* = 9 minute interval.

5

	O. D.	I. D.	LENGTH	DEPTH
Drill Pipe or Tubing				
Reversing Sub	5.75"	2.75"	1'	
Water Cushion Valve				
Drill Pipe <del>Weight Pipe</del>	4.50"	2.764"	632'	
Drill Collars <del>Drill Pipe</del>	4.50"	3.826"	3191'	
Handling Sub & Choke Assembly				
Dual CIP Valve	5.0"	.87"	5'	3830'
Dual CIP Sampler				
Hydro-Spring Tester	5.0"	.75"	5'	3835'
Multiple CIP Sampler				
Extension Joint				
AP Running Case				
Hydraulic Jar				
VR Safety Joint	5.0"	1.0"	3'	
Pressure Equalizing Crossover				
Packer Assembly	6.75"	1.53"	4'	3841'
Distributor				
Packer Assembly	6.75"	1.53"	4'	3845'
Flush Joint Anchor				
Pressure Equalizing Tube				
Blanked-Off B.T. Running Case	5.0"	3.06"	4'	3847'
Drill Collars				
Anchor Pipe Safety Joint				
Packer Assembly				
Distributor				
Packer Assembly				
Anchor Pipe Safety Joint				
Side Wall Anchor				
Drill Collars				
Flush Joint Anchor	5.0"	3.84"	23'	
Blanked-Off B.T. Running Case	5.0"	2.44"	4'	3872'
Total Depth				3876'



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