

Legal Location Sec. - Twp. - Rng. 7-27-14
 Lease Name JONES
 Well No. A-1
 Test No. 1
 Field Area WILDCAT
 Meas. From Tester Valve
 County PRATT
 State KANSAS
 Tested Interval 3512-3595'
 Lease Owner/Company Name AEGIS CORPORATION

FLUID SAMPLE DATA		Date	5-4-77	Ticket Number	207395
Sampler Pressure _____ P.S.I.G. at Surface	Kind of Job	STRADDLE	Halliburton District	PRATT	
Recovery: Cu. Ft. Gas _____	Tester	BILL THOMPSON	Witness	TOBY ELSTER	
cc. Oil _____	Drilling Contractor	H-30 DRILLING COMPANY		DR	
cc. Water _____	EQUIPMENT & HOLE DATA				
cc. Mud _____	Formation Tested	Topeko			
Tot. Liquid cc. _____	Elevation	1830'	DF	Ft.	
Gravity _____ ° API @ _____ ° F.	Net Productive Interval	10'		Ft.	
Gas/Oil Ratio _____ cu. ft./bbl.	All Depths Measured From	Kelly Bushing			
RESISTIVITY _____ CHLORIDE CONTENT _____	Total Depth	3624'		Ft.	
Recovery Water _____ @ _____ ° F. _____ ppm	Main Hole/Casing Size	7 7/8"			
Recovery Mud _____ @ _____ ° F. _____ ppm	Drill Core Length	750'	I.D. 2.764"	WP	
Recovery Mud Filtrate _____ @ _____ ° F. _____ ppm	Drill Pipe Length	2804'	I.D. 3.826"		
Mud Pit Sample _____ @ _____ ° F. _____ ppm	Packer Depth(s)	3512-3595' Ft.			
Mud Pit Sample Filtrate _____ @ _____ ° F. _____ ppm	Depth Tester Valve	3492'		Ft.	
Mud Weight 9.8 vis 51 sec					

Cushion	TYPE	AMOUNT	Depth Back Pres. Valve	Surface Choke	Bottom Choke
			Ft.	1"	3/4"
Recovered	1140	Feet of	salt water, with slight show of oil		
Recovered		Feet of			
Recovered		Feet of			
Recovered		Feet of			
Recovered		Feet of			
Remarks	SEE PRODUCTION TEST DATA SHEET				

Charts indicate partial plugging of anchor perforations during initial flow period.
 UTR-Unable to read

TEMPERATURE	Gauge No. 1831		Gauge No. 1830		Gauge No. 7347		TIME	
	Depth:	3502 Ft.	Depth:	3591 Ft.	Depth:	3620 Ft.		
Est. °F.	12 Hour Clock		12 Hour Clock		12 Hour Clock		Tool	A.M.
	Blanked Off NO		Blanked Off YES		Blanked Off YES		Opened 8:25	P.M.
Actual 105 °F.	Pressures		Pressures		Pressures		Opened	A.M.
	Bypass 12:25						Bypass 12:25	P.M.
	Field	Office	Field	Office	Field	Office	Reported	Computed
Initial Hydrostatic	1754	1728		1769		1808	Minutes	Minutes
First Period Flow	Initial	19		66				
	Final	407		465			60	62
	Closed in	1278		1315			60	59
Second Period Flow	Initial	388		448	HYDROSTATIC RELEASE:			
	Final	573		615		1649	60	58
	Closed in	1278		1308			60	61
Third Period Flow	Initial							
	Final							
Final Hydrostatic	1736	UTR		1762		UTR		

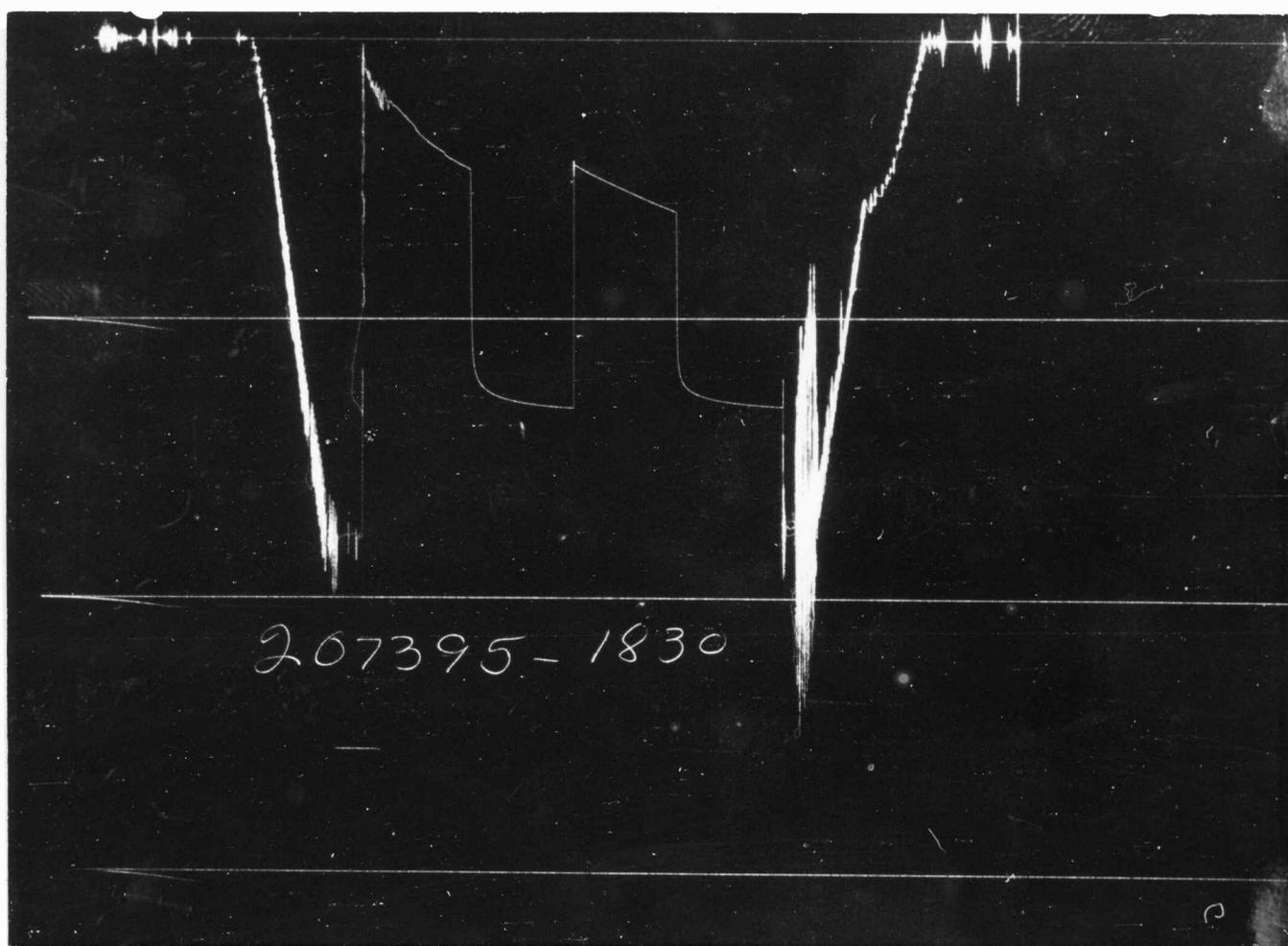
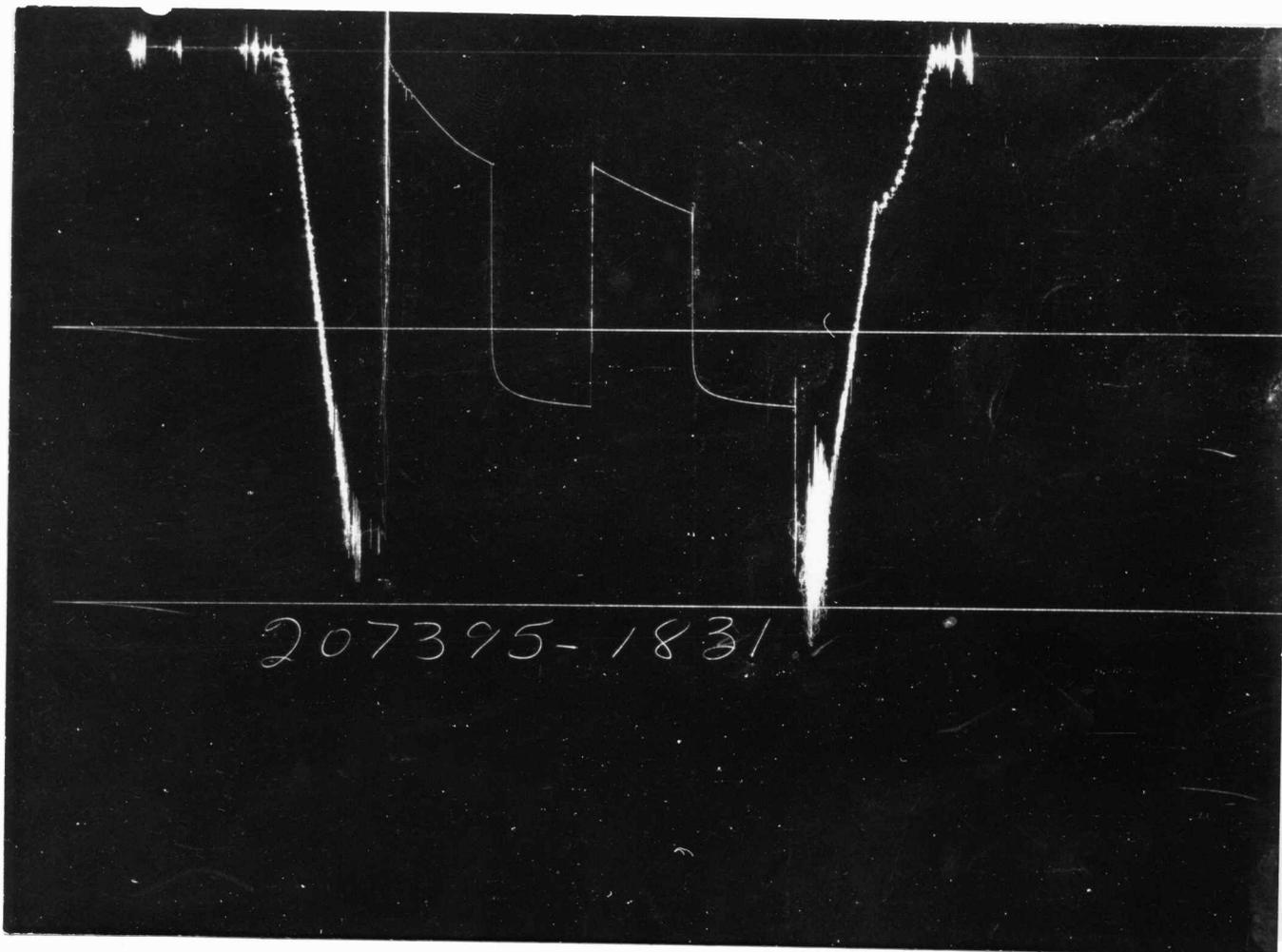
Gauge No.		1831		Depth		3502'		Clock No.		14117		12 hour		Ticket No.		207395	
First Flow Period		Closed In Pressure		Second Flow Period		Closed In Pressure		Third Flow Period		Closed In Pressure		Third Flow Period		Closed In Pressure		Third Flow Period	
Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\log \frac{t+\theta}{\theta}$	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\log \frac{t+\theta}{\theta}$	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	.000	401	.000	408	.000	577	.000	577	.000	577	.000	577	.000	577	.000	577
1	.0807	.0202	1162**	.0549	433***	.0337	1195****	.0337	1195****	.0337	1195****	.0337	1195****	.0337	1195****	.0337	1195****
2	.1480	.0472	1201	.1235	466	.0608	1217	.1235	466	.0608	1217	.1235	466	.0608	1217	.1235	466
3	.2152	.0742	1221	.1921	495	.0878	1230	.1921	495	.0878	1230	.1921	495	.0878	1230	.1921	495
4	.2825	.1012	1233	.2608	525	.1148	1238	.2608	525	.1148	1238	.2608	525	.1148	1238	.2608	525
5	.3498	.1282	1243	.3294	552	.1419	1244	.3294	552	.1419	1244	.3294	552	.1419	1244	.3294	552
6	.4170	.1551	1250	.3980	577	.1689	1250	.3980	577	.1689	1250	.3980	577	.1689	1250	.3980	577
7		.1821	1255			.1959	1255			.1959	1255			.1959	1255		
8		.2091	1259			.2229	1257			.2229	1257			.2229	1257		
9		.2361	1264			.2499	1261			.2499	1261			.2499	1261		
10		.2631	1266			.2770	1263			.2770	1263			.2770	1263		
11		.2900	1270			.3040	1265			.3040	1265			.3040	1265		
12		.3170	1271			.3310	1268			.3310	1268			.3310	1268		
13		.3440	1274			.3580	1269			.3580	1269			.3580	1269		
14		.3710	1276			.3850	1271			.3850	1271			.3850	1271		
15		.3980	1277			.4120	1271			.4120	1271			.4120	1271		

Gauge No.		1830		Depth		3591'		Clock No.		2478		hour		12		Minutes	
First Flow Period		Closed In Pressure		Second Flow Period		Closed In Pressure		Third 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"	$\log \frac{t+\theta}{\theta}$	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	.000	465	.000	448	.000	615	.000	448	.000	615	.000	448	.000	615	.000	448
1	.0823	.0206	1192**	.0555	475***	.0344	1235****	.0555	475***	.0344	1235****	.0555	475***	.0344	1235****	.0555	475***
2	.1508	.0482	1240	.1248	506	.0620	1257	.1248	506	.0620	1257	.1248	506	.0620	1257	.1248	506
3	.2194	.0757	1261	.1941	537	.0895	1268	.1941	537	.0895	1268	.1941	537	.0895	1268	.1941	537
4	.2879	.1032	1273	.2634	564	.1171	127	.2634	564	.1171	127	.2634	564	.1171	127	.2634	564
5	.3565	.1308	1282	.3327	591	.1446	1285	.3327	591	.1446	1285	.3327	591	.1446	1285	.3327	591
6	.4250	.1583	1289	.4020	615	.1721	1288	.4020	615	.1721	1288	.4020	615	.1721	1288	.4020	615
7		.1858	1294			.1997	1292			.1997	1292			.1997	1292		
8		.2134	1299			.2272	1296			.2272	1296			.2272	1296		
9		.2408	1302			.2548	1299			.2548	1299			.2548	1299		
10		.2684	1306			.2823	1301			.2823	1301			.2823	1301		
11		.2959	1309			.3098	1303			.3098	1303			.3098	1303		
12		.3235	1311			.3374	1305			.3374	1305			.3374	1305		
13		.3510	1312			.3649	1307			.3649	1307			.3649	1307		
14		.3785	1314			.3925	1308			.3925	1308			.3925	1308		
15		.4060	1315			.4200	1308			.4200	1308			.4200	1308		
Reading Interval	10		4		10		4		10		4		10		4		10

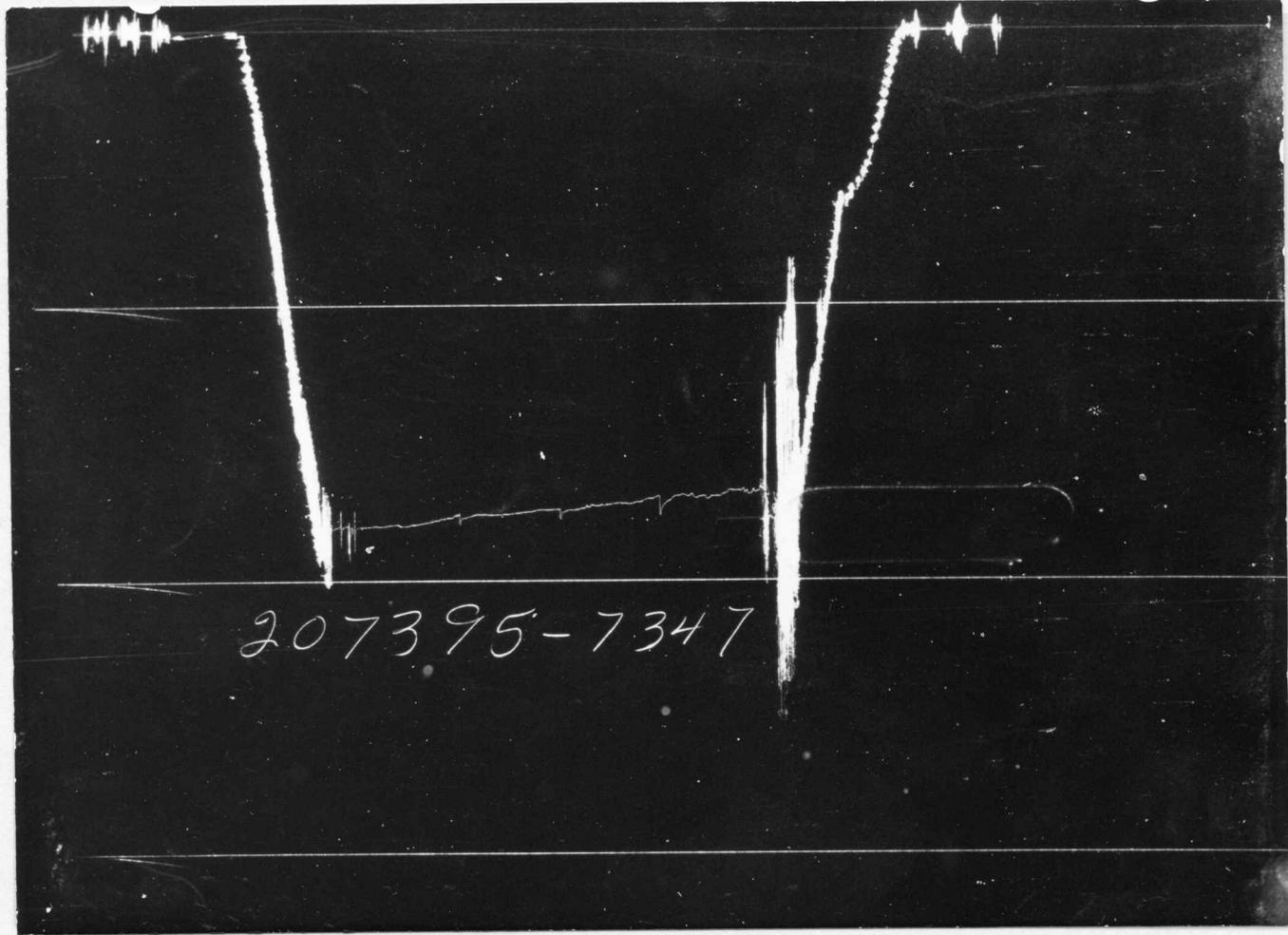
REMARKS: *-12 minutes **-3 minutes ***-8 minutes ****-5 minutes.



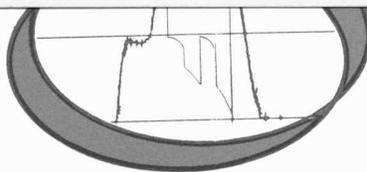
	O. D.	I. D.	LENGTH	DEPTH
Drill Pipe or Tubing	5 5/8"	2"	1 1/2"	
Reversing Sub				
Water Cushion Valve				
Drill Pipe	4 1/2"	3.826"	2804'	
Drill Collars	4 1/2"	2.764"	750' WP	
Handling Sub & Choke Assembly	5 3/4"	2 1/4"	2 1/2'	
Dual CIP Valve	5 "	3/4"	6'	3486'
Dual CIP Sampler				
Hydro-Spring Tester	5"	3/4"	5'	3492'
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	3.06"	4'	3502'
Hydraulic Jar				
VR Safety Joint				
Pressure Equalizing Crossover				
Packer Assembly	5"	1.00"	3'	3512'
Distributor	6 3/4"	1.53"	6'	
Packer Assembly				
Flush Joint Anchor	5"	2.37"	83'	
Pressure Equalizing Tube	1"	3/4"	12'	
Blanked-Off B.T. Running Case	1"	2.44"	4'	3591'
Drill Collars				
Anchor Pipe Safety Joint				
Packer Assembly	6 3/4"	1.53"	6'	3595'
Distributor				
Packer Assembly				
Anchor Pipe Safety Joint				
Side Wall Anchor				
Drill Collars				
Flush Joint Anchor	5"	2.37"	29' Tail pipe	
Blanked-Off B.T. Running Case	5"	3.06"	4'	3620'
Total Depth				3624'



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



7 2 1



Formation Testing Service Report



Home Office: Wichita, Kansas 67201
P. O. Box 1599 (316) 838-0601

Company Aegis Corporation Lease & Well No. Jones A-#1
Elevation 2029 Kelly Bushing Formation Lansing Effective Pay - Ft. Ticket No. 24757
Date 5-5-77 Sec. 7 Twp. 27S Range 14W County Pratt State Kansas
Test Approved by Toby Elster Western Representative Max Knipe

Formation Test No. 2 O.K. Misrun Interval Tested From 4073' to 4095' Total Depth 4095'
Size Main Hole 77/8 Rat Hole Conv. B.T. Damaged Yes No Conv. B.T. Damaged Yes No
Top Packer Depth 4068 Ft. Size 6 3/4 Bottom Packer Depth 4073 Ft. Size 6 3/4
Straddle Conv. B.T. Damaged Yes No Packer Depth Ft. Size
Tool Size 5 1/2 OD Tool Joint Size 4 1/2 FH Anchor Length 22 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 4080 Ft. Clock No. 6861 Depth 4083 Ft. Clock No. 6892
Top Make Kuster Cap. 4000 No. 3659 ~~Inside~~ Outside Bottom Make Kuster Cap. 4250 No. 1051 ~~Inside~~ Outside
Below Straddle: Depth Rec. No. Clock No. ~~Inside~~ Outside Depth Ft. Rec. No. Clock No. ~~Inside~~ Outside

Time Set Packer 8:12 P M
Tool Open I.F.P. From 8:15 P M. to 9:00P M. - Hr. 45 Min. From (B) 24 P.S.I. To (C) 20 P.S.I.
Tool Closed I.C.I.P. From 9:00 M. to 9:45P M. - Hr. 45 Min (D) 358 P.S.I.
Tool Open F.F.P. From 9:45P M. to 10:30P M. - Hr. 45 Min. From (E) 69 P.S.I. To (F) 52 P.S.I.
Tool Closed F.C.I.P. From 10:30 M. to 11:15P M. - Hr. 45 Min. (G) 314 P.S.I.
Initial Hydrostatic Pressure (A) 1923 P.S.I. Final Hydrostatic Pressure (H) 1878 P.S.I. Maximum Temp. 114

INFORMATION

BLOW Good blow throughout test.

Did Well Flow - Yes No Recovery Total Ft. 1121' gas in pipe, 55' slightly oil & gas cut mud.

Reversed Out - Yes No Mud Type chem Viscosity 41 Weight 9.6 Water Loss cc. Chlorides 24,000 P.P.M.

EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint Jars: Size In. Make Ser. No.

Dual Packer Yes Did Packers Hold? Did Tool Plug? Where?

DRILLING CONTRACTOR H-30 Inc. Rig #11 Length Drill Pipe? 3282 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 FH In.

Length Weight Pipe 771 Ft. I.D. Weight Pipe 2.7 In. Tool Joint Size 4 1/2 FH In. Length Drill Collars Ft. I.D. Drill Collars In.

Tool Joint Size In. Length D.S.T. Tool 42 Ft.

Remarks: Read outside recorder #1051.

WESTERN TESTING CO., INC.

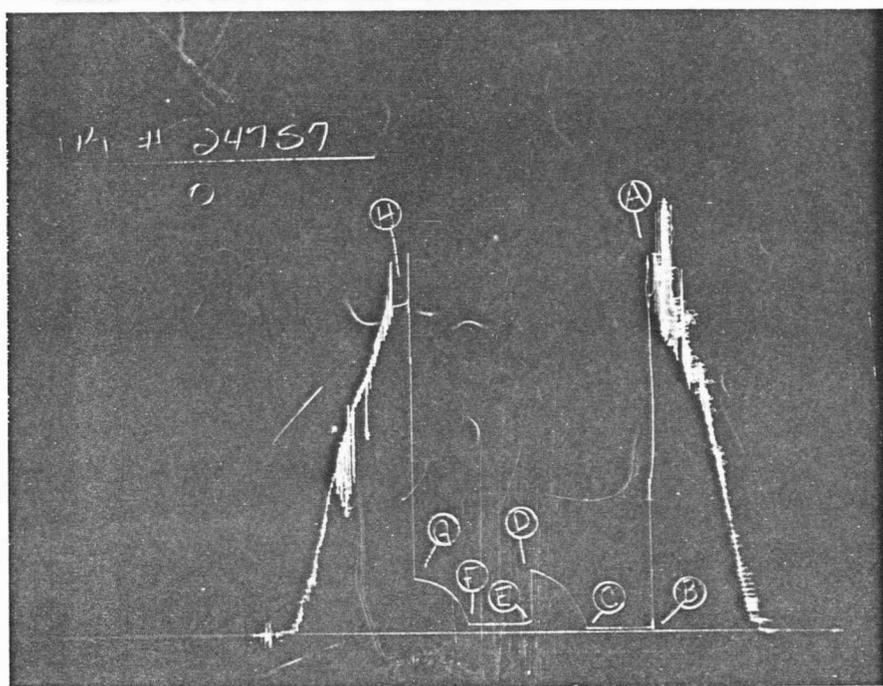
Pressure Data

Date 5-5-77 Test Ticket No. 24757
 Recorder No. 1051 Capacity 4250 Location 4083 Ft.
 Clock No. 6892 Elevation 2029 Kelly Bushing Well Temperature 114 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1923</u> P.S.I.	Open Tool	<u>8:12</u> P _M	
B First Initial Flow Pressure	<u>24</u> P.S.I.	First Flow Pressure	<u>45</u> Mins.	<u>45</u> Mins.
C First Final Flow Pressure	<u>20</u> P.S.I.	Initial Closed-in Pressure	<u>45</u> Mins.	<u>45</u> Mins.
D Initial Closed-in Pressure	<u>358</u> P.S.I.	Second Flow Pressure	<u>45</u> Mins.	<u>45</u> Mins.
E Second Initial Flow Pressure	<u>69</u> P.S.I.	Final Closed-in Pressure	<u>45</u> Mins.	<u>45</u> Mins.
F Second Final Flow Pressure	<u>52</u> P.S.I.			
G Final Closed-in Pressure	<u>314</u> P.S.I.			
H Final Hydrostatic Mud	<u>1878</u> P.S.I.			

PRESSURE BREAKDOWN

Point Mins.	First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	Inc.
	of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
	final inc. of <u>0</u> Min.							
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	
P 1 <u>0</u>	<u>24</u>	<u>0</u>	<u>20</u>	<u>0</u>	<u>69</u>	<u>0</u>	<u>52</u>	
P 2 <u>5</u>	<u>18</u>	<u>3</u>	<u>24</u>	<u>5</u>	<u>53</u>	<u>3</u>	<u>62</u>	
P 3 <u>10</u>	<u>18</u>	<u>6</u>	<u>82</u>	<u>10</u>	<u>49</u>	<u>6</u>	<u>116</u>	
P 4 <u>15</u>	<u>18</u>	<u>9</u>	<u>125</u>	<u>15</u>	<u>49</u>	<u>9</u>	<u>163</u>	
P 5 <u>20</u>	<u>19</u>	<u>12</u>	<u>155</u>	<u>20</u>	<u>50</u>	<u>12</u>	<u>196</u>	
P 6 <u>25</u>	<u>19</u>	<u>15</u>	<u>194</u>	<u>25</u>	<u>51</u>	<u>15</u>	<u>224</u>	
P 7 <u>30</u>	<u>19</u>	<u>18</u>	<u>227</u>	<u>30</u>	<u>52</u>	<u>18</u>	<u>243</u>	
P 8 <u>35</u>	<u>19</u>	<u>21</u>	<u>254</u>	<u>35</u>	<u>52</u>	<u>21</u>	<u>260</u>	
P 9 <u>40</u>	<u>20</u>	<u>24</u>	<u>274</u>	<u>40</u>	<u>52</u>	<u>24</u>	<u>271</u>	
P10 <u>45</u>	<u>20</u>	<u>27</u>	<u>290</u>	<u>45</u>	<u>52</u>	<u>27</u>	<u>283</u>	
P11		<u>30</u>	<u>303</u>			<u>30</u>	<u>290</u>	
P12		<u>33</u>	<u>319</u>			<u>33</u>	<u>298</u>	
P13		<u>36</u>	<u>332</u>			<u>36</u>	<u>304</u>	
P14		<u>39</u>	<u>341</u>			<u>39</u>	<u>308</u>	
P15		<u>42</u>	<u>349</u>			<u>42</u>	<u>312</u>	
P16		<u>45</u>	<u>358</u>			<u>45</u>	<u>314</u>	
P17								
P18								
P19								
P20								



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	1910	1923	PSI
(B) First Initial Flow Pressure	10	24	PSI
(C) First Final Flow Pressure	10	20	PSI
(D) Initial Closed-in Pressure	366	358	PSI
(E) Second Initial Flow Pressure	43	69	PSI
(F) Second Final Flow Pressure	43	52	PSI
(G) Final Closed-in Pressure	301	314	PSI
(H) Final Hydrostatic Mud	1867	1878	PSI



Home Office: Wichita, Kansas 67201
P. O. Box 1599 (316) 838-0601

Company Aegis Corporation Lease & Well No. Jones A-#1

Elevation 2029 Kelly Bushing Formation Kansas City Effective Pay - Ft. Ticket No. 24758

Date 5-6-77 Sec. 7 Twp. 27S Range 14W County Pratt State Kansas

Test Approved by Toby Elster Western Representative Max Knipe

Formation Test No. 3 O.K. Misrun Interval Tested From 4159' to 4180' Total Depth 4180'

Size Main Hole 77/8 Rat Hole Conv. B.T. Damaged Yes No Conv. B.T. Damaged Yes No

Top Packer Depth 4154 Ft. Size 6 3/4 Bottom Packer Depth 4159 Ft. Size 6 3/4

Straddle Conv. B.T. Damaged Yes No Packer Depth Ft. Size

Tool Size 5 1/2 OD Tool Joint Size 4 1/2 FH Anchor Length 21 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 4166 Ft. Clock No. 6861 Depth 4169 Ft. Clock No. 6892

Top Make Kuster Cap. 4000 No. 3659 ~~Inside~~ Outside Bottom Make Kuster Cap. 4250 No. 1051 ~~Inside~~ Outside

Below Straddle: Depth Rec. No. Clock No. ~~Inside~~ Outside Depth Ft. Rec. No. Clock No. ~~Inside~~ Outside

Time Set Packer 12:23 P M

Tool Open I.F.P. From 12:25 P.M. to 12:55 P.M. - Hr. 30 Min. From (B) 25 P.S.I. To (C) 21 P.S.I.

Tool Closed I.C.I.P. From 12:55 P.M. to 1:55 P.M. 1 Hr. - Min (D) 194 P.S.I.

Tool Open F.F.P. From 1:55 P.M. to 2:25 P.M. - Hr. 30 Min. From (E) 39 P.S.I. To (F) 23 P.S.I.

Tool Closed F.C.I.P. From 2:25 P.M. to 3:25 P.M. 1 Hr. - Min. (G) 71 P.S.I.

Initial Hydrostatic Pressure (A) 2022 P.S.I. Final Hydrostatic Pressure (H) 2002 P.S.I. Maximum Temp. 118

INFORMATION

BLOW Very weak blow for 8 minutes then died. Flushed tool at 20 minutes into initial flow period, few bubbles, blow died.

Did Well Flow Yes No Recovery Total Ft. 20' mud.

Reversed Out Yes No Mud Type chem Viscosity 45 Weight 9.4 Water Loss 24.0 cc. Chlorides 23,000 P.P.M.

EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint Jars: Size In. Make Ser. No.

Dual Packer Yes Did Packers Hold? Yes Did Tool Plug? No Where?

DRILLING CONTRACTOR H-30 Inc. Rig #11 Length Drill Pipe? 3368 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 FH In.

Length Weight Pipe 771 Ft. I.D. Weight Pipe 2.7 In. Tool Joint Size 4 1/2 FH In. Length Drill Collars Ft. I.D. Drill Collars In.

Tool Joint Size In. Length D.S.T. Tool 41 Ft.

Remarks:

WESTERN TESTING CO., INC.

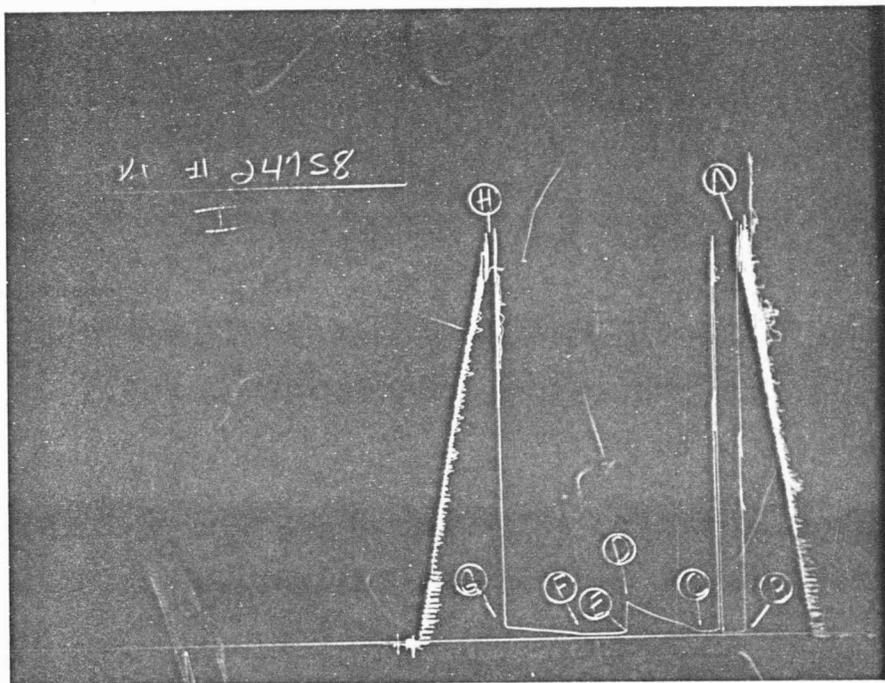
Pressure Data

Date 5-6-77 Test Ticket No. 24758
 Recorder No. 3659 Capacity 4000 Location 4166 Ft.
 Clock No. 6861 Elevation 2029 Kelly Bushing Well Temperature 118 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2022 P.S.I.	Open Tool	12:23 P.M.	
B First Initial Flow Pressure	25 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	21 P.S.I.	Initial Closed-in Pressure	60 Mins.	60 Mins.
D Initial Closed-in Pressure	194 P.S.I.	Second Flow Pressure	30 Mins.	30 Mins.
E Second Initial Flow Pressure	39 P.S.I.	Final Closed-in Pressure	60 Mins.	60 Mins.
F Second Final Flow Pressure	23 P.S.I.			
G Final Closed-in Pressure	71 P.S.I.			
H Final Hydrostatic Mud	2002 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>20</u> Inc.		Breakdown: <u>6</u> Inc.		Breakdown: <u>20</u> Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>25</u>	<u>0</u>	<u>21</u>	<u>0</u>	<u>39</u>	<u>0</u>	<u>23</u>
P 2 <u>5</u>	<u>12</u>	<u>3</u>	<u>22</u>	<u>5</u>	<u>23</u>	<u>3</u>	<u>24</u>
P 3 <u>10</u>	<u>12</u>	<u>6</u>	<u>29</u>	<u>10</u>	<u>23</u>	<u>6</u>	<u>25</u>
P 4 <u>15</u>	<u>12</u>	<u>9</u>	<u>41</u>	<u>15</u>	<u>23</u>	<u>9</u>	<u>29</u>
P 5 <u>20</u>	<u>31</u>	<u>12</u>	<u>51</u>	<u>20</u>	<u>23</u>	<u>12</u>	<u>33</u>
P 6 <u>25</u>	<u>21</u>	<u>15</u>	<u>59</u>	<u>25</u>	<u>23</u>	<u>15</u>	<u>36</u>
P 7 <u>30</u>	<u>21</u>	<u>18</u>	<u>67</u>	<u>30</u>	<u>23</u>	<u>18</u>	<u>38</u>
P 8		<u>21</u>	<u>74</u>			<u>21</u>	<u>41</u>
P 9		<u>24</u>	<u>82</u>			<u>24</u>	<u>43</u>
P10		<u>27</u>	<u>89</u>			<u>27</u>	<u>45</u>
P11		<u>30</u>	<u>98</u>			<u>30</u>	<u>47</u>
P12		<u>33</u>	<u>104</u>			<u>33</u>	<u>49</u>
P13		<u>36</u>	<u>113</u>			<u>36</u>	<u>51</u>
P14		<u>39</u>	<u>122</u>			<u>39</u>	<u>53</u>
P15		<u>42</u>	<u>131</u>			<u>42</u>	<u>56</u>
P16		<u>45</u>	<u>143</u>			<u>45</u>	<u>59</u>
P17		<u>48</u>	<u>153</u>			<u>48</u>	<u>61</u>
P18		<u>51</u>	<u>161</u>			<u>51</u>	<u>63</u>
P19		<u>54</u>	<u>174</u>			<u>54</u>	<u>66</u>
P20		<u>57</u>	<u>188</u>			<u>57</u>	<u>68</u>
		<u>60</u>	<u>194</u>			<u>60</u>	<u>71</u>

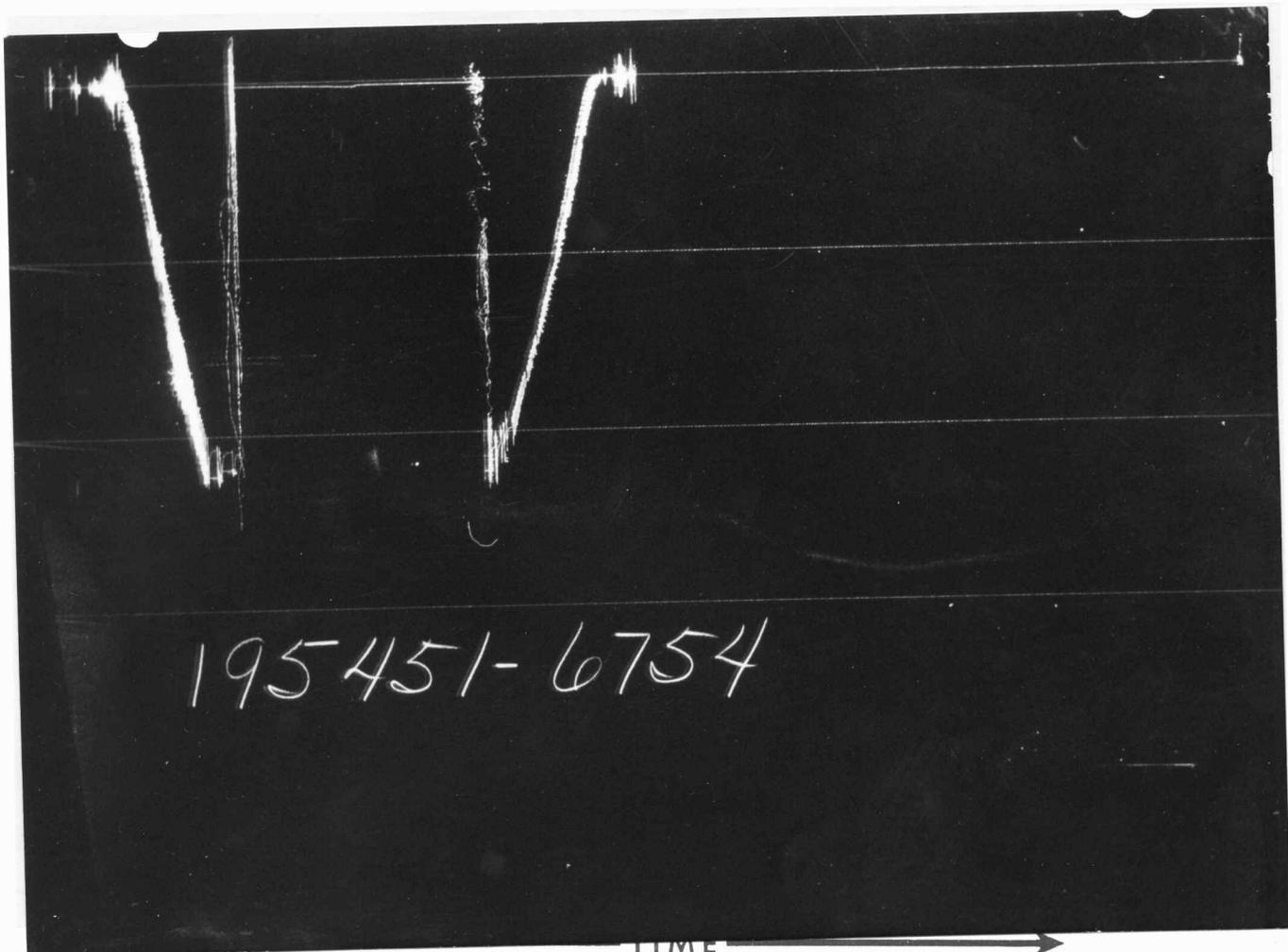


This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	2018	2022	PSI
(B) First Initial Flow Pressure	10	25	PSI
(C) First Final Flow Pressure	20	21	PSI
(D) Initial Closed-in Pressure	193	194	PSI
(E) Second Initial Flow Pressure	20	39	PSI
(F) Second Final Flow Pressure	20	23	PSI
(G) Final Closed-in Pressure	61	71	PSI
(H) Final Hydrostatic Mud	2002	2002	PSI

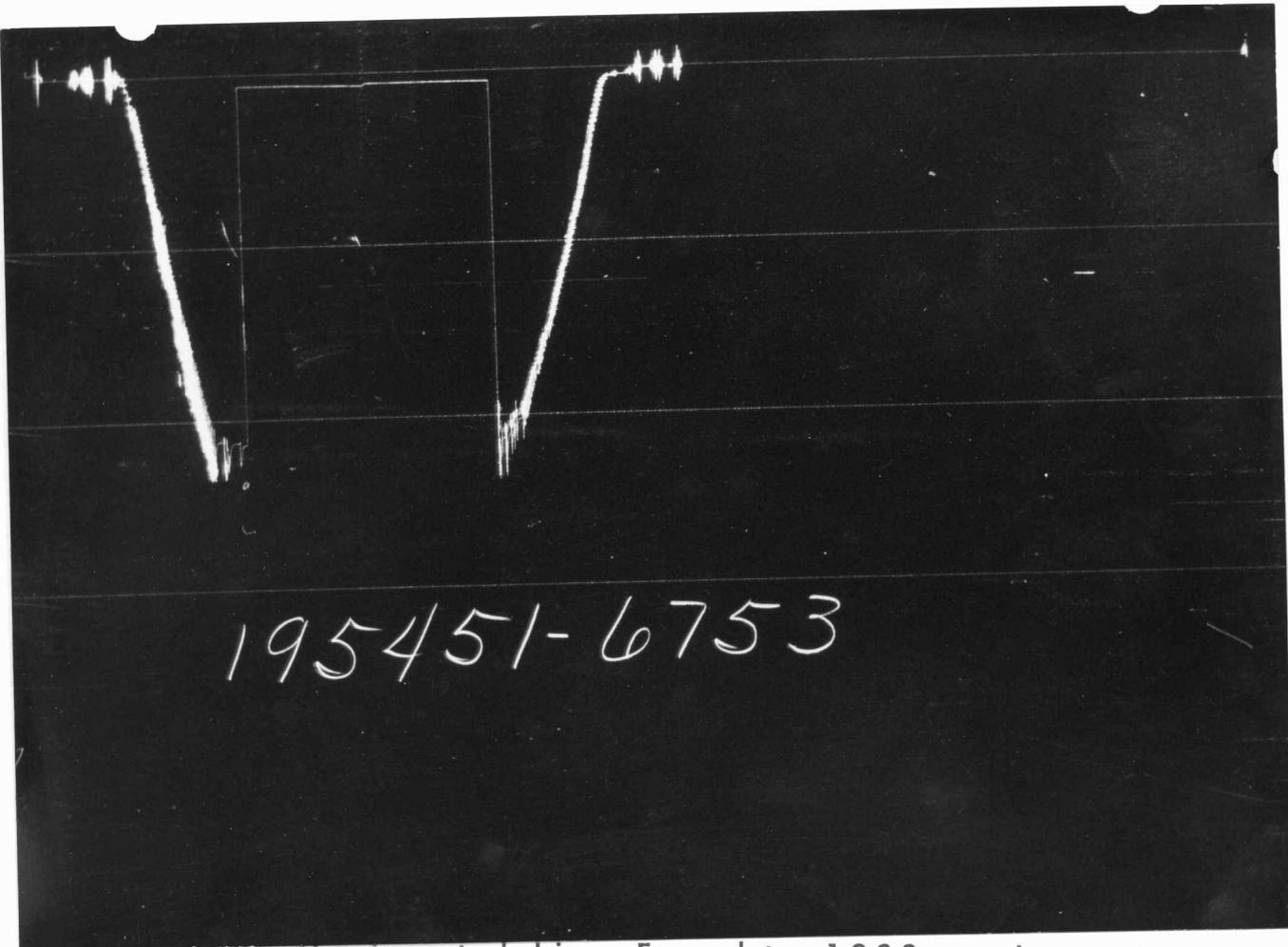


	O. D.	I. D.	LENGTH	DEPTH
Drill Pipe or Tubing	6"	3"	1'	
Reversing Sub				
Water Cushion Valve				
Drill Pipe	4½"	3.826"	3519'	
Drill Collars	4½" WP	2.764"	709'	
Handling Sub & Choke Assembly	4½"	3"	1'	
Dual CIP Valve	5"	.87"	6'	4263'
Dual CIP Sampler				
Hydro-Spring Tester	5"	.75"	5'	4268'
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	3.06"	4'	4269'
Hydraulic Jar	5"	1.76"	5'	
VR Safety Joint	5"	1"	3'	
Pressure Equalizing Crossover				
Packer Assembly	6 3/4"	1.53"	6'	4284'
Distributor				
Packer Assembly	6 3/4"	1.53"	6'	4290'
Flush Joint Anchor	5"	2.36"	10'	
Pressure Equalizing Tube				
Change over 3½" FH X 4½" FH	6"	2.25"	1'	
Blanked-Off B.T. Running Case				
Drill Collars	4½" WP	2.764"	31'	
Anchor Pipe Safety Joint				
Change over 4½" FH X 3½" FH	6"	2.25"	1'	
Packer Assembly				
Distributor				
Packer Assembly				
Anchor Pipe Safety Joint				
Side Wall Anchor				
Drill Collars				
Flush Joint Anchor	5"	2.36"	25'	
HT-500 Temp.	5"	-	1'	
Blanked-Off B.T. Running Case	5"	2.44"	4'	4361'
Total Depth				4365'



↑
PRESSURE
↓

←
TIME
→



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

TEMPERATURE RECORDER CHART



10° each circle

- OF₄ = 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
- Q₁ = 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		Ticket Number			
Sampler Pressure _____ P.S.I.G. at Surface				5-8-77		195452			
Recovery: Cu. Ft. Gas _____				Kind of Job		Halliburton District			
cc. Oil _____				OPEN HOLE		LIBERAL			
cc. Water _____				Tester		Witness			
cc. Mud _____				BURR		ELSLER			
Tot. Liquid cc. _____				Drilling Contractor					
Gravity _____ ° API @ _____ °F.				H-30 DRILLING COMPANY RIG # 7 NM					
Gas/Oil Ratio _____ cu. ft./bbl.				EQUIPMENT & HOLE DATA					
RESISTIVITY _____ CHLORIDE CONTENT _____				Formation Tested					
Recovery Water _____ @ _____ °F. _____ ppm				Mississippi					
Recovery Mud _____ @ _____ °F. _____ ppm				Elevation					
Recovery Mud Filtrate _____ @ _____ °F. _____ ppm				1930' K.B. Ft.					
Mud Pit Sample _____ @ _____ °F. _____ ppm				Net Productive Interval					
Mud Pit Sample Filtrate _____ @ _____ °F. _____ ppm				20' Ft.					
Mud Weight 9.3 vis 45 sec				All Depths Measured From					
				Kelly Bushing					
				Total Depth					
				4465' Ft.					
				Main Hole/Casing Size					
				7 7/8" - 8 5/8"					
				Drill Pipe Length					
				709' I.D. 2.764"					
				Drill Pipe Length					
				3655' I.D. 3.826"					
				Packer Depth(s)					
				4396' - 4402' Ft.					
				Depth Tester Valve					
				4380' Ft.					
Cushion		TYPE AMOUNT		Depth Back		Surface		Bottom	
		NONE		Ft. Pres. Valve		Choke		Choke	
				NONE		1/4"		3/4"	
Recovered		63' Feet of		gas cut mud					
Recovered		Feet of							
Recovered		Feet of							
Recovered		Feet of							
Recovered		Feet of							
Remarks		Gas to the surface - SEE PRODUCTION TEST DATA SHEET...							
TEMPERATURE		Gauge No. 6754		Gauge No. 6753		Gauge No.		TIME	
		Depth: 4381' Ft.		Depth: 4461' 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 1545 P.M.	
4460' @		Pressures		Pressures		Pressures		Opened A.M.	
Actual 119.		Pressures		Pressures		Pressures		Bypass 1945 P.M.	
		Field Office		Field Office		Field Office		Reported Computed	
		2143 2149 2185		2149 2185				Minutes Minutes	
First Period		26 59 96		59 59					
Flow		29 59 59		1417 1441 1447				60 60	
Final		1417 1441 1447		40 44 74				60 60	
Closed in		40 44 74		20 44 49				60 60	
Second Period		20 44 49		1374 1382 1401				60 60	
Flow		1374 1382 1401							
Final									
Closed in									
Third Period									
Flow									
Final									
Closed in									
Final Hydrostatic		2124 2148 2162							

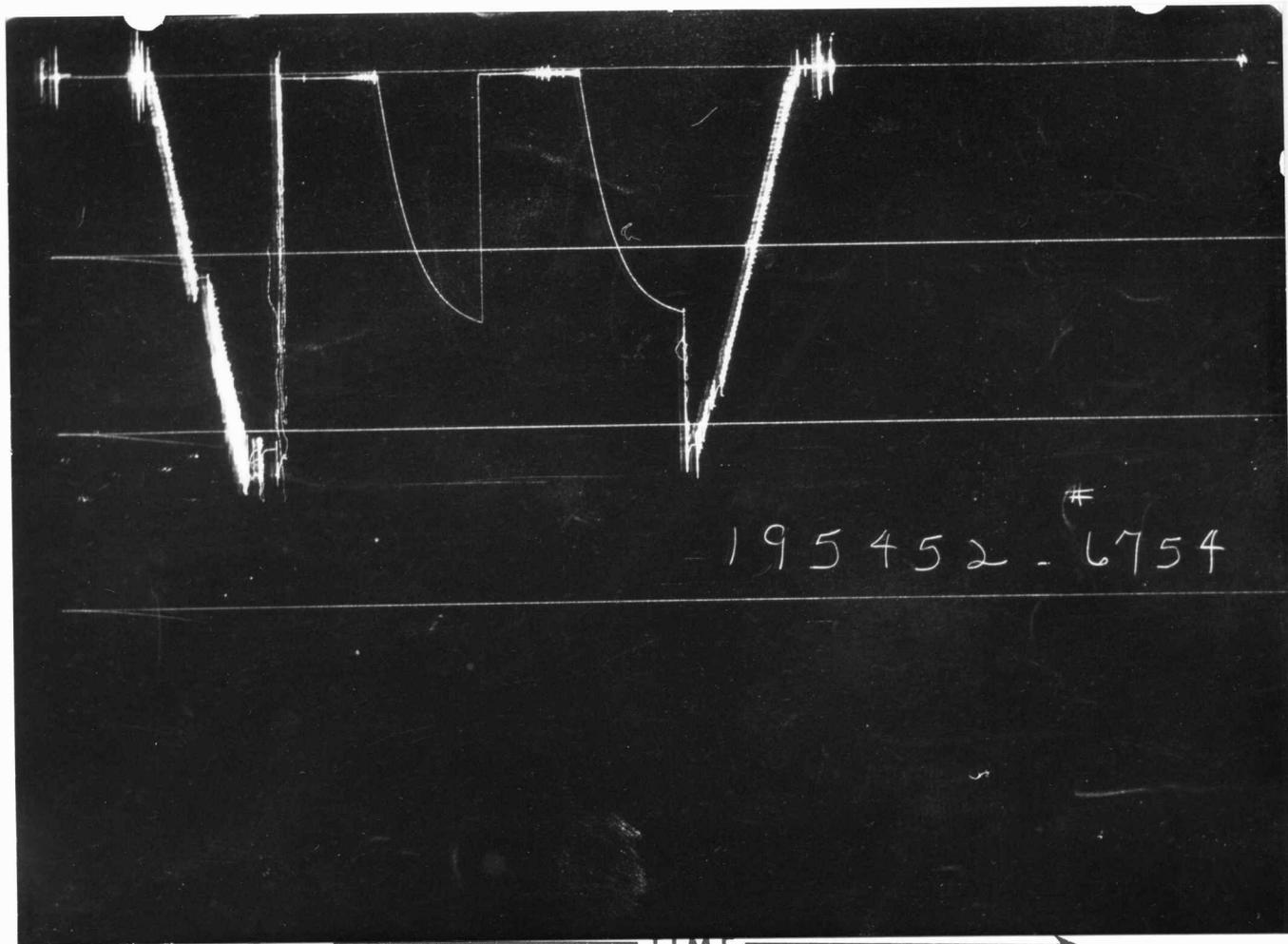
Legal Location Sec. 1 Twp. 7 - Rng. 7 - 27 - 14W
 Lease Name JONES
 Well No. A-1
 Test No. 5
 Tested Interval 4402' - 4465'
 County
 State
 Lease Owner/Company Name AEGIS CORPORATION
 Field Area
 Meo. From Tester Valve
 Country
 State
 KANSAS

Gauge No.		6754		Depth		4381'		Clock No.		8090		12 hour		Ticket No.		195452	
First Flow Period		Closed In Pressure		Second Flow Period		Closed In Pressure		Third Flow Period		Closed In Pressure		Third Flow Period		Closed In Pressure		Third Flow Period	
Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\text{Log } \frac{t + \theta}{\theta}$	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\text{Log } \frac{t + \theta}{\theta}$	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\text{Log } \frac{t + \theta}{\theta}$	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\text{Log } \frac{t + \theta}{\theta}$	Time Defl. .000"	PSIG Temp. Corr.
0	.000	26		.000	29	.000	40	.000	20								
1	.399	29		.0267	298	.405	20	.0265	295								
2				.0535	521			.0529	524								
3				.0802	706			.0794	701								
4				.1069	857			.1059	859								
5				.1337	980			.1323	976								
6				.1604	1075			.1588	1070								
7				.1871	1154			.1853	1147								
8				.2139	1217			.2117	1205								
9				.2406	1267			.2382	1250								
10				.2673	1309			.2647	1284								
11				.2941	1339			.2911	1310								
12				.3208	1366			.3176	1333								
13				.3475	1386			.3441	1349								
14				.3743	1405			.3705	1362								
15				.4010	1417			.3970	1374								

Gauge No.		6753		Depth		4461'		Clock No.		????		12 hour		12			
First Flow Period		Closed In Pressure		Second Flow Period		Closed In Pressure		Third Flow Period		Closed In Pressure		Third Flow Period		Closed In Pressure			
Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\text{Log } \frac{t + \theta}{\theta}$	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\text{Log } \frac{t + \theta}{\theta}$	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\text{Log } \frac{t + \theta}{\theta}$	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\text{Log } \frac{t + \theta}{\theta}$		
0	.000	96		.000	59	.000	74	.000	49								
1	.400	59		.0269	341	.404	49	.0267	307								
2				.0539	556			.0535	545								
3				.0808	739			.0802	724								
4				.1077	884			.1069	877								
5				.1347	1013			.1337	1000								
6				.1616	1107			.1604	1097								
7				.1885	1185			.1871	1171								
8				.2155	1250			.2139	1231								
9				.2424	1300			.2406	1276								
10				.2693	1340			.2673	1310								
11				.2963	1371			.2941	1338								
12				.3232	1399			.3208	1360								
13				.3501	1419			.3475	1378								
14				.3771	1435			.3743	1390								
15				.4040	1447			.4010	1401								
Reading Interval		4						4								Minutes	
REMARKS:																	

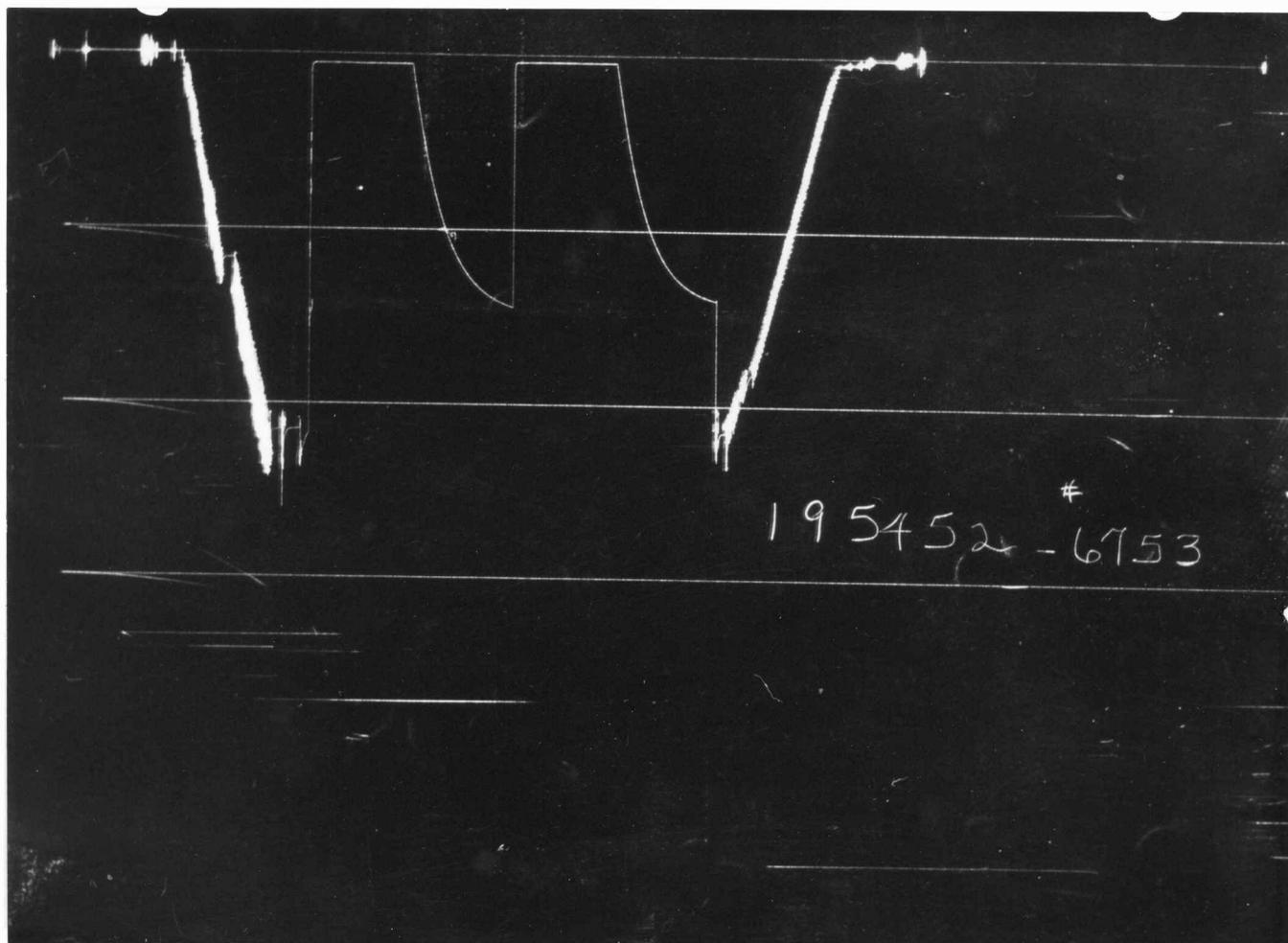
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	O. D.	I. D.	LENGTH	DEPTH
Drill Pipe or Tubing	6"	3.00"	1'	
Reversing Sub				
Water Cushion Valve				
Drill Pipe	4½"	3.826"	3655'	
* Drill Collar WEIGHT PIPE	4½"	2.764"	709'	
Handling Sub & Choke Assembly	4½"	3.00"	4'	
Dual CIP Valve	5"	.87"	6'	4375'
Dual CIP Sampler				
Hydro-Spring Tester	5"	.75"	5'	4380'
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	3.00"	4'	4381'
Hydraulic Jar	5"	1.76"	5'	
VR Safety Joint	5"	1.00"	3'	
Pressure Equalizing Crossover				
Packer Assembly	6 3/4"	1.53"	6'	4396'
Distributor				
Packer Assembly	6 3/4"	1.53"	6'	4402'
Flush Joint Anchor	5"	2.36"	10'	
* Pressure Equalizing Filter	6"	2.25"	1'	
CHANGE OVER 3½" x 4½" Blanked-Off B.T. Running Case				
Drill Collars	4½"	2.764"	31'	
Anchor Pipe Safety Joint	5"	2.25"	1'	
CHANGE OVER 3½" x 4½"				
Packer Assembly				
Distributor				
Packer Assembly				
Anchor Pipe Safety Joint				
Side Wall Anchor				
Drill Collars				
Flush Joint Anchor	5"	2.36"	13'	
	5"		1'	4460'
Blanked-Off B.T. Running Case	5"	2.44"	4'	4461'
Total Depth				4465'



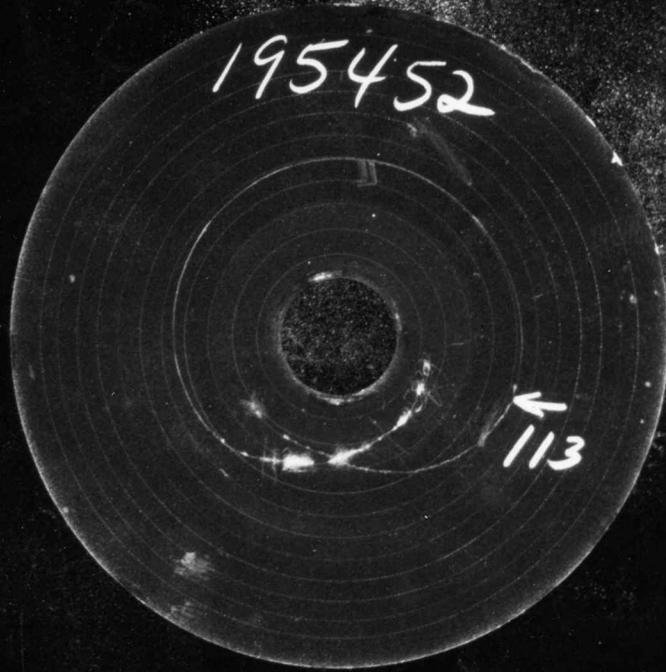
PRESSURE

TIME



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

TEMPERATURE RECORDER CHART

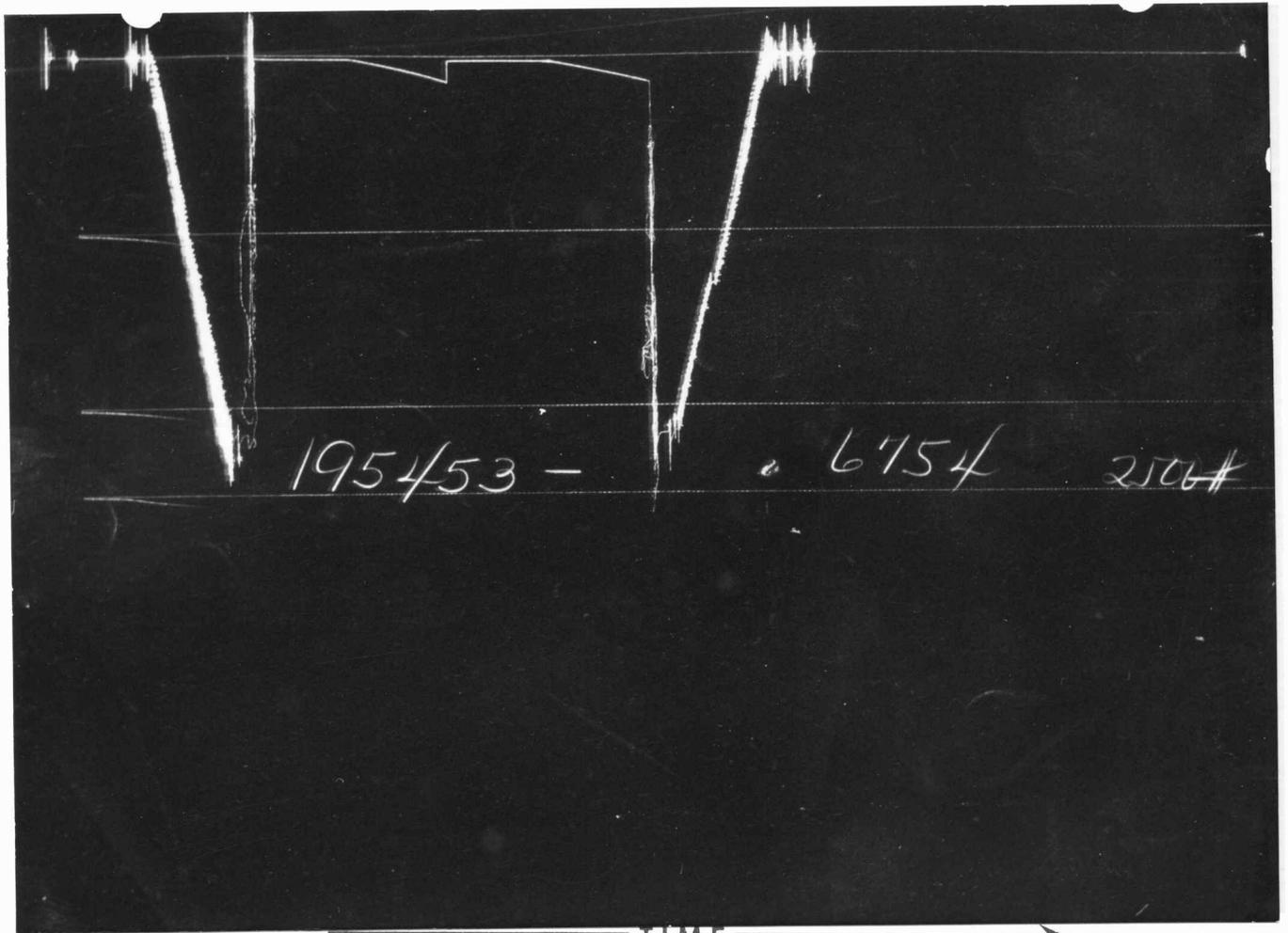


10° each circle

- OF_3 = Theoretical Open Flow Potential 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

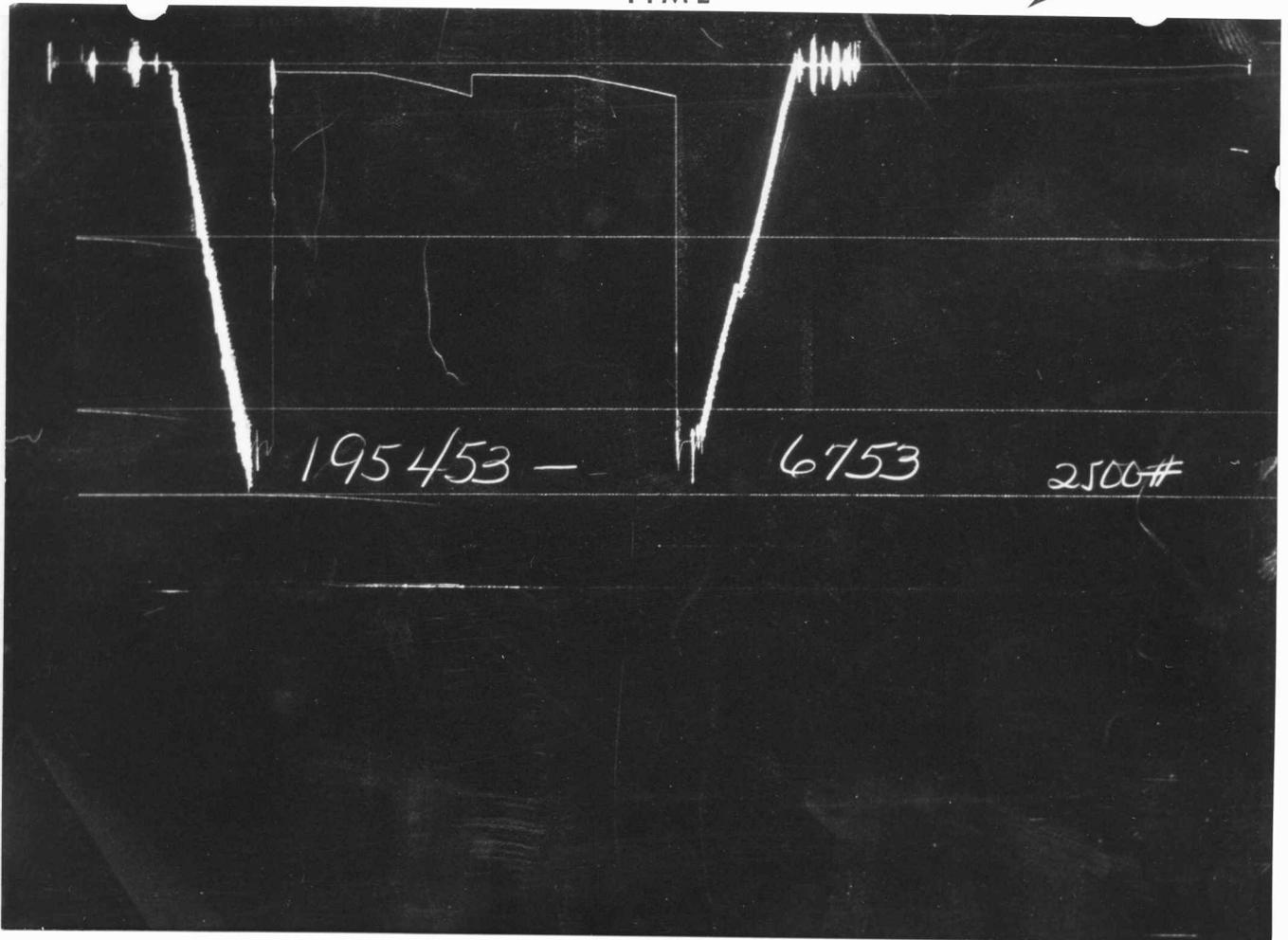
* Potentiometric Surface Reference to Rotary Table When Elevation Not Given, Fresh Water Corrected to 100° F.

	O. D.	I. D.	LENGTH	DEPTH
Drill Pipe or Tubing				
Reversing Sub	5"	3"	1'	
Water Cushion Valve				
Drill Pipe	4.50"	3.826"	3728'	
Drill Collars WEIGHT PIPE	4.50"	2.764"	709'	
Handling Sub & Choke Assembly	4.50"	3"	4'	
Dual CIP Valve	5"	.87"	6'	4448'
Dual CIP Sampler				
Hydro-Spring Tester	5"	.75"	5'	4453'
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	3.06"	4'	4454'
Hydraulic Jar	5"	1.76"	5'	
VR Safety Joint	5"	1"	3'	
Pressure Equalizing Crossover				
Packer Assembly	6.75"	1.53"	6'	4469'
Distributor				
Packer Assembly	6.75"	1.53"	6'	4475'
Flush Joint Anchor	5"	2.36"	10'	
Pressure Equalizing Tube	6"	2.25"	1'	CHANGE OVER
Blanked-Off B.T. Running Case				
Drill Collars	4.50"	2.764"	31'	
Anchor Pipe Safety Joint	6"	2.25"	1'	CHANGE OVER
Packer Assembly				
Distributor				
Packer Assembly				
Anchor Pipe Safety Joint				
Side Wall Anchor				
Drill Collars				
Flush Joint Anchor	5"	2.36"	5'	
HT 500 TEMP CASE	5"		1'	4525'
Blanked-Off B.T. Running Case	5"	2.44"	4'	4526'
Total Depth				4530'



↑ PRESSURE ↓

← TIME →



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

TEMPERATURE RECORDER CHART



10° each circle

- OF₃ = Theoretical Open Flow Potential
- OF₄ = 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
- Q₁ = 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.