

FLUID SAMPLE DATA				Date 2-18-75		Ticket Number 657164	
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 9.5 vis 44 cp				Kind of Job OPEN HOLE Tester PFANNENSTIEL Drilling Contractor RED TIGER DRILLING COMPANY NM Equipment & Hole Data		Halliburton District HAYS Witness LEWELLYN Formation Tested Kansas City Elevation 2730' Ft. Net Productive Interval 3' Ft. All Depths Measured From Kelly Bushing Total Depth 4217' Ft. Main Hole/Casing Size 7 7/8" - 8 5/8" Drill Pipe Length WP 1113' I.D. 2.764" WP Packer Depth(s) 4173' - 4178' Ft. Depth Tester Valve 4166' Ft.	
Cushion		TYPE	AMOUNT	Depth Back	Surface	Bottom	
			NONE	Ft. Pres. Valve	Choke	Choke	
Recovered		30'	Feet of	mud			
Recovered		5'	Feet of	oil cut mud			
Recovered		2'	Feet of	oil			
Recovered			Feet of				
Recovered			Feet of				
Remarks Tool opened with a weak blow for a 30 minute first flow. Closed tool for a 30 minute first closed in pressure. Tool reopened with no blow for a 30 minute second flow. Took a 30 minute second closed in pressure.							
TEMPERATURE		Gauge No. 991		Gauge No. 693		Gauge No.	
		Depth: 4167' Ft.		Depth: 4213' Ft.		Depth: Ft.	
Est. ° F.		12 Hour Clock		12 Hour Clock		Hour Clock	
Blanked Off		NO		YES		Blanked Off	
4212' @		Pressures		Pressures		Pressures	
Actual 115 ° F.							
		Field	Office	Field	Office	Field	Office
Initial Hydrostatic		-	2148	2238	2172		
First Period	Flow Initial	-	8	40	38		
	Flow Final	-	10	43	40		
	Closed in	-	196	223	216		
Second Period	Flow Initial	-	20	48	55		
	Flow Final	-	18	48	49		
	Closed in	-	53	79	82		
Third Period	Flow Initial						
	Flow Final						
	Closed in						
Final Hydrostatic		-	2133	2171	2157		
TIME		Tool		Tool		Tool	
		1445 A.M.		1445 P.M.		1445 P.M.	
		Opened		Opened		Opened	
		Bypass		Bypass		Bypass	
		1615 P.M.		1615 P.M.		1615 P.M.	
Reported		Computed		Reported		Computed	
Minutes		Minutes		Minutes		Minutes	

 Legal Location
 Sec. - Twp. - Rng.

25 - 17 - 28W

 Field Area
 Med. From Tester Valve

WHITE ROCK POOL

County

LANE

State

KANSAS

 Lease Name
 HARLAMERT

 Well No.
 3

 Test No.
 1

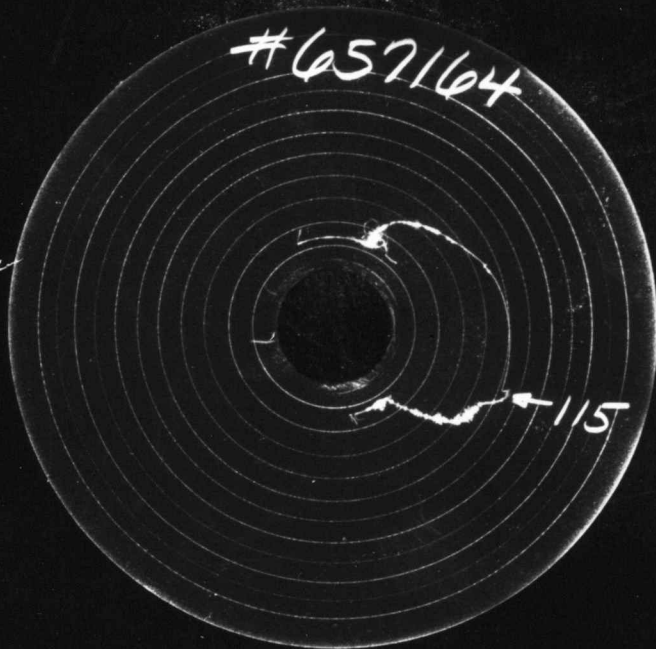
 Tested Interval
 4178' - 4217'

 Lease Owner/Company Name
 BEREN CORPORATION

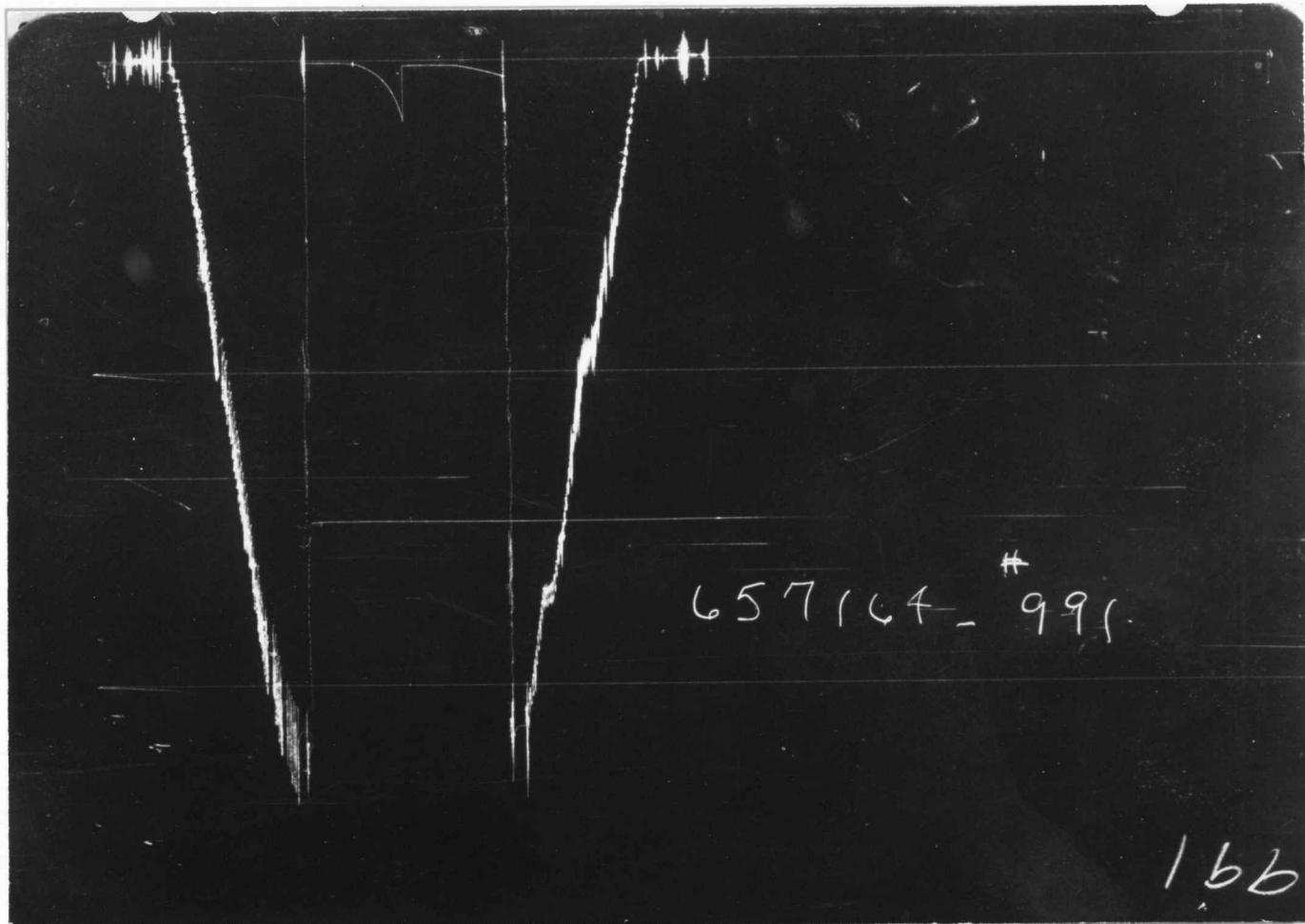
	O. D.	I. D.	LENGTH	DEPTH
Drill Pipe or Tubing	5.75"	2.75"	12"	
Reversing Sub				
Water Cushion Valve	4.5"	3.826"	3060'	
Drill Pipe	4.5"	2.764"	1113' WEIGHT PIPE	
Drill Collars				
Handling Sub & Choke Assembly	5.00"	.87"	67"	
Dual CIP Valve				
Dual CIP Sampler	5"	.75"	60.21"	4166'
Hydro-Spring Tester				
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	3.06"	49.63"	4167'
Hydraulic Jar				
VR Safety Joint				
Pressure Equalizing Crossover				
Packer Assembly	6.75"	1.53"	54"	4173'
Distributor				
Packer Assembly	6.75"	1.53"	54"	4178'
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				
Flush Joint Anchor	5"	3.24"	32'	
Blanked-Off B.T. Running Case	5"	2.44"	48.71'	4213'
Total Depth				4217'

TEMPERATURE
RECORDER
CHART

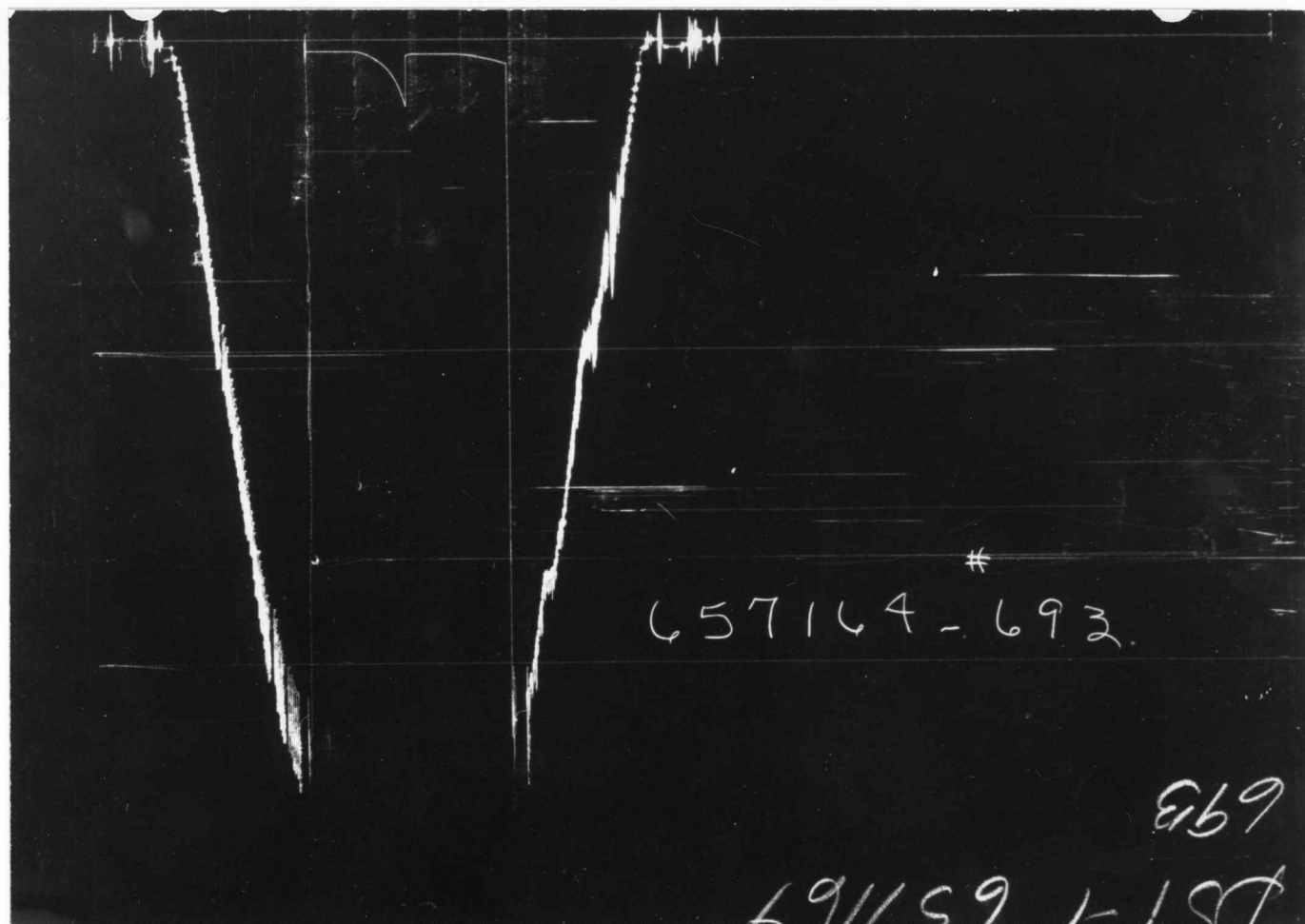
10° each circle



PRESSURE



TIME



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

Gauge No.			991		Depth			4209'		Clock No.			10858		12 hour	Ticket No.	657165				
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"	$\text{Log} \frac{t + \theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\text{Log} \frac{t + \theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\text{Log} \frac{t + \theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	$\text{Log} \frac{t + \theta}{\theta}$	PSIG Temp. Corr.			
0	.000	185	.000		344	.000	372	.000		476											
1	.0389	248*	.0205		594	.0608	395**	.0211		602											
2	.0713	271	.0410		634	.1285	416	.0422		615											
3	.1037	298	.0615		672	.1961	435	.0633		624											
4	.1361	314	.0820		713	.2637	451	.0844		632											
5	.1686	329	.1025		751	.3313	464	.1055		633											
6	.2010	344	.1230		782	.3990	476	.1266		638											
7			.1435		813			.1477		640											
8			.1640		840			.1688		643											
9			.1845		861			.1899		643											
10			.2050		882			.2110		644											
11																					
12																					
13																					
14																					
15																					

Gauge No. 693			Depth 4229'					Clock No. 7105			hour	12
0	.000	232	.000		356	.000	404	.000		490		
1	.0404	259*	.0204		604	.0610	403**	.0204		609		
2	.0742	317	.0408		640	.1288	425	.0408		625		
3	.1079	318	.0612		681	.1966	443	.0612		633		
4	.1416	324	.0816		725	.2644	459	.0816		639		
5	.1753	337	.1020		760	.3322	474	.1020		644		
6	.2090	356	.1224		789	.4000	490	.1224		647		
7			.1428		823			.1428		650		
8			.1632		865			.1632		652		
9			.1836		868			.1836		654		
10			.2040		887			.2040		656		
11												
12												
13												
14												
15												
Reading Interval		5			3			10			3	Minutes

REMARKS: * INTERVAL = 6 MINUTES. ** INTERVAL = 9 MINUTES.

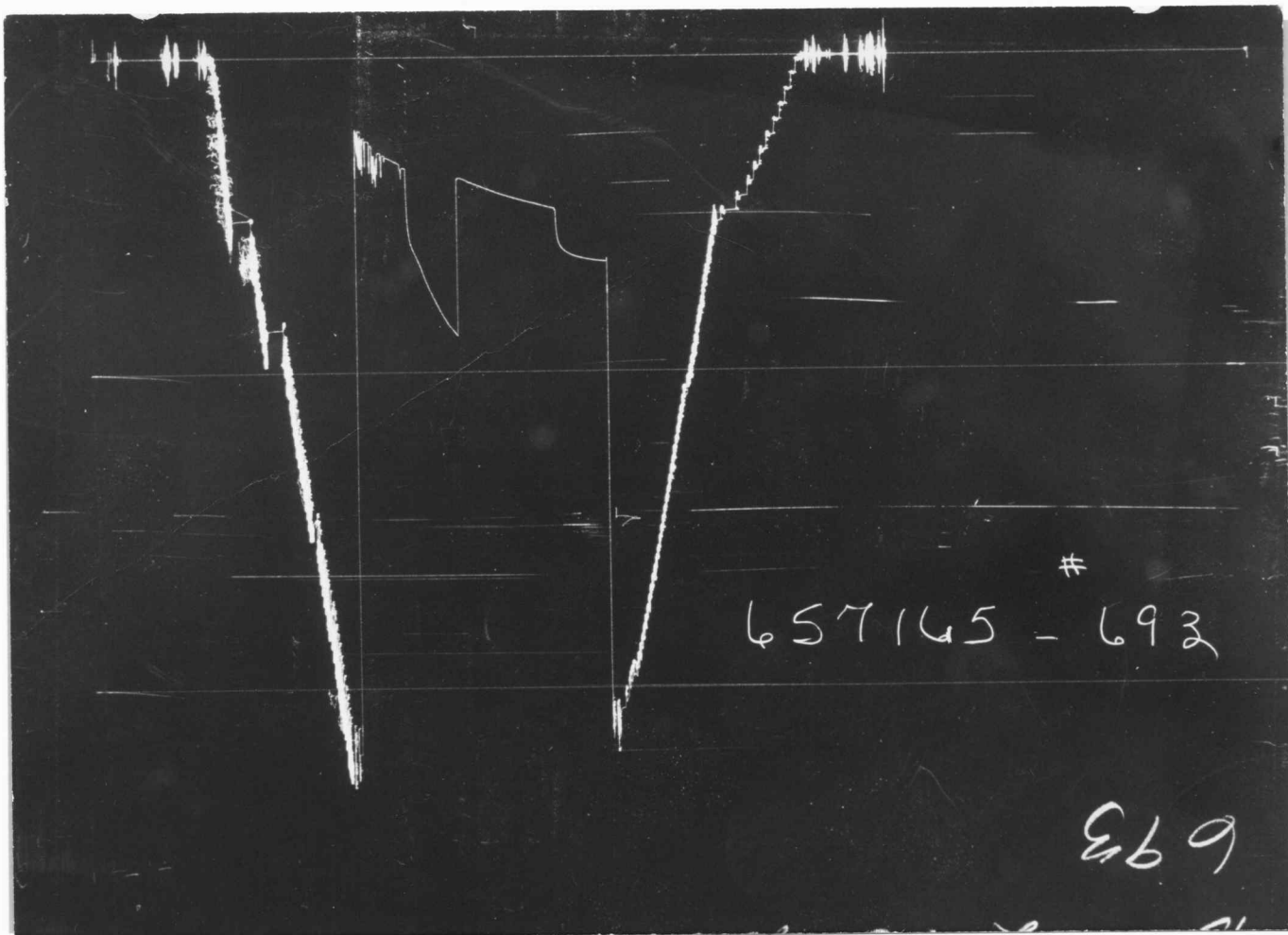
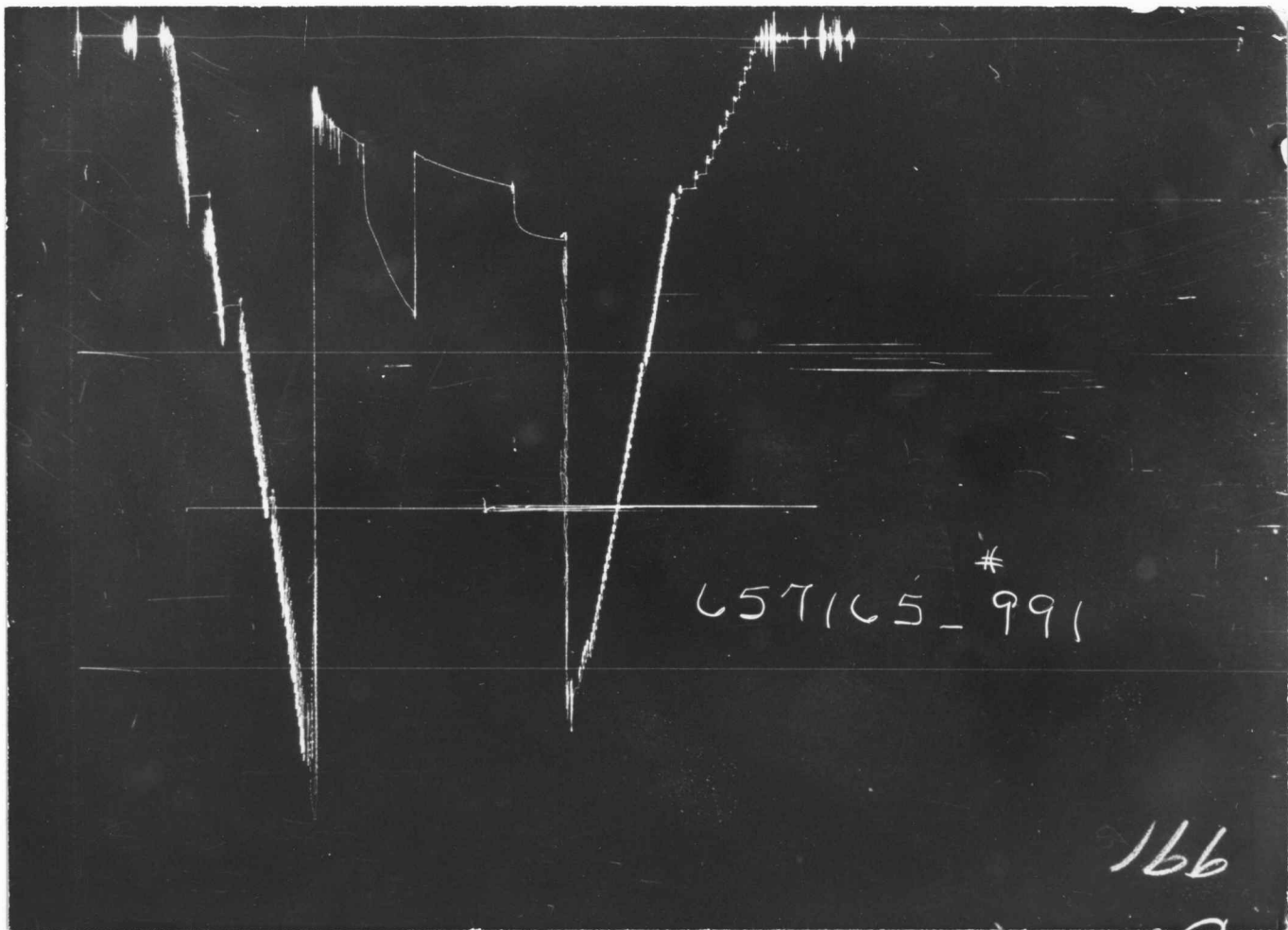
	O. D.	I. D.	LENGTH	DEPTH
Drill Pipe or Tubing	5.75"	2.75"	12"	
Reversing Sub				
Water Cushion Valve				
Drill Pipe	4.5"	3.826"	3091'	
***** WEIGHT PIPE	4.5"	2.764"	1113'	
Drill Collars				
Handling Sub & Choke Assembly	5"	.87"	67"	
Dual CIP Valve				
Dual CIP Sampler	5"	.75"	60.21"	4208'
Hydro-Spring Tester				
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	3.06"	49.63"	4209'
Hydraulic Jar				
VR Safety Joint				
Pressure Equalizing Crossover				
Packer Assembly	6.75"	1.53"	54"	4215'
Distributor				
Packer Assembly	6.75"	1.53"	54"	4220'
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				
Flush Joint Anchor	5"	3.24"	6'	
Blanked-Off B.T. Running Case	5"	2.44"	48.71"	4229'
Total Depth				4233'

TEMPERATURE
RECORDER
CHART



10° each circle

PRESSURE



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

FLUID SAMPLE DATA				Date 2-19-75		Ticket Number 657166	
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 9.5 vis 45 cp				Kind of Job OPEN HOLE TEST Tester MR. PFANNENSTIEL Witness MR. LEWELLYN Drilling Contractor RED TIGER DRILLING COMPANY PW S		Halliburton District HAYS	
EQUIPMENT & HOLE DATA							
Formation Tested Kansas City				Elevation 2730' Ft.			
Net Productive Interval 5' Ft.				All Depths Measured From Kelly Bushing			
Total Depth 4233' Ft.				Main Hole/Casing Size 7 7/8" - 8 5/8"			
Drill Collar Length 1113' I.D. 2.764" W.P.				Drill Pipe Length 3091' I.D. 3.826"			
Packer Depth(s) 4215' - 4220' Ft.				Depth Tester Valve 4208' Ft.			
TYPE		AMOUNT		Depth Back Pres. Valve		Surface Choke	
Cushion						1/4" Bottom Choke 3/4"	
Recovered		216 Feet of Gassy slightly oil cut mud.					
Recovered		248 Feet of Gassy oil cut mud.					
Recovered		248 Feet of Gassy oil cut muddy salt water.					
Recovered		82 Feet of Gassy oil cut salt water.					
Recovered		Feet of					
Remarks Opened tool for a 59 minute first flow period with a strong blow. Closed tool for a 31 minute initial closed in pressure period. Reopened tool for a 59 minute second flow period with a fair blow increasing to a strong blow in 30 minutes. Closed tool for a 31 minute final closed in pressure period.							
CHARTS INDICATE SLIGHT PLUGGING ACTION DURING EARLY PART OF INITIAL FLOW.							
TEMPERATURE		Gauge No. 991		Gauge No. 693		Gauge No.	
		Depth: 4209 Ft.		Depth: 4229 Ft.		Depth: Ft.	
		12 Hour Clock		12 Hour Clock		Hour Clock	
Est. ° F.		Blanked Off No		Blanked Off Yes		Blanked Off	
4228'							
Actual 118 ° F.		Pressures		Pressures		Pressures	
		Field	Office	Field	Office	Field	Office
Initial Hydrostatic			2199	2221	2209		
First Period	Flow Initial		26	149	235		
	Flow Final		264	265	271		
	Closed in		590	600	597		
Second Period	Flow Initial		282	303	295		
	Flow Final		354	357	362		
	Closed in		574	579	584		
Third Period	Flow Initial						
	Flow Final						
	Closed in						
Final Hydrostatic			2082	2120	2089		

 Legal Location
 Sec. - Twp. - Rng.

25 - 17 - 28W

 Field Area
 Med. From Tester Valve
 WHITE ROCK POOL

County

LANE

State KANSAS

 HARTMERT
 Lease Name

 3
 Well No.

 3
 Test No.

 4220' - 4233'
 Tested Interval

 BEREN CORPORATION
 Lease Owner/Company Name

Gauge No. 991			Depth 4209'			Clock No. 10858			12 hour		Ticket No. 657166				
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"	$\text{Log} \frac{t + \theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\text{Log} \frac{t + \theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\text{Log} \frac{t + \theta}{\theta}$	PSIG Temp. Corr.
0	.000	26	.000		264	.000	282	.000		354					
1	.0609*	144	.0263**		486	.0606***	285	.0271****		510					
2	.1285	176	.0461		530	.1278	303	.0474		540					
3	.1961	201	.0658		548	.1951	318	.0677		552					
4	.2637	225	.0855		561	.2624	330	.0881		559					
5	.3313	247	.1053		569	.3297	342	.1084		563					
6	.3990	264	.1250		574	.3970	354	.1287		567					
7			.1448		578			.1490		569					
8			.1645		582			.1693		571					
9			.1842		586			.1897		574					
10			.2040		590			.2100		574					
11															
12															
13															
14															
15															

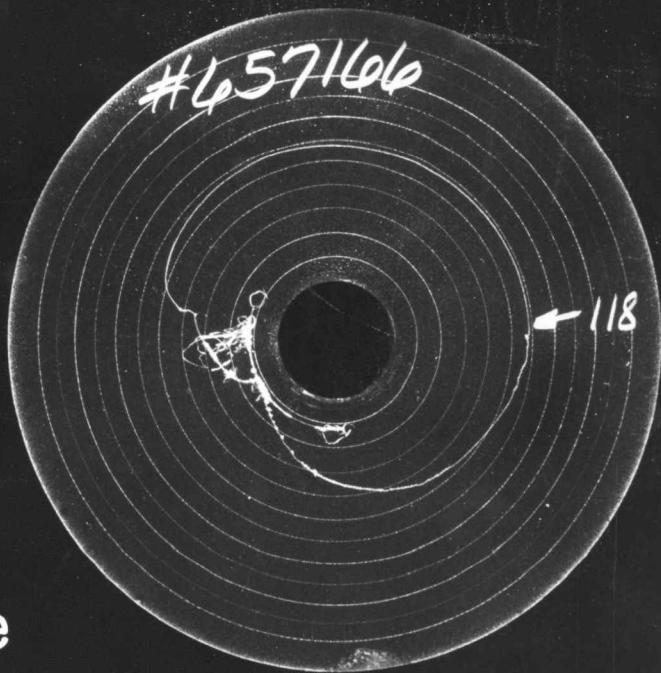
Gauge No.		693		Depth		4229'		Clock No.		7105		12		hour	
0	.000	235	.000		271	.000	295	.000		362					
1	.0606*	155	.0265**		495	.0607***	295	.0267****		518					
2	.1278	185	.0463		538	.1282	312	.0467		548					
3	.1951	209	.0661		556	.1956	326	.0668		560					
4	.2624	233	.0859		568	.2631	339	.0868		568					
5	.3297	254	.1058		576	.3305	350	.1068		572					
6	.3970	271	.1256		582	.3980	362	.1269		575					
7			.1454		586			.1469		578					
8			.1653		590			.1669		581					
9			.1851		594			.1869		583					
10			.2050		597			.2070		584					
11															
12															
13															
14															
15															
Reading Interval		10	3		10		3								Minutes

REMARKS:

* = 9 minutes ** = 4 minutes *** = 9 minutes **** = 4 minutes

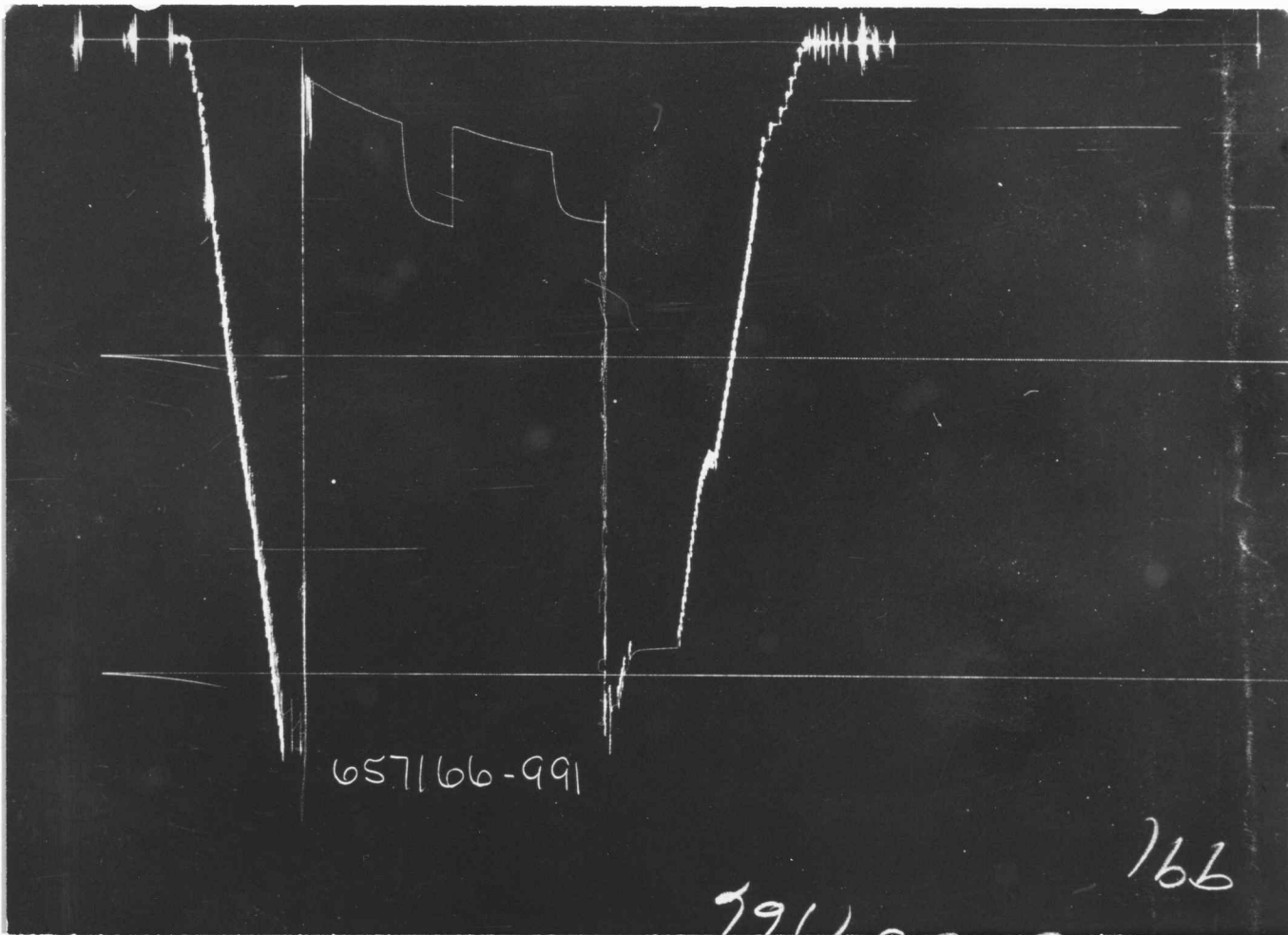
	O. D.	I. D.	LENGTH	DEPTH
Drill Pipe or Tubing				
Reversing Sub	5.75"	2.75"	12"	
Water Cushion Valve				
Drill Pipe	4.5"	3.826"	3091'	
Drill Collars Weight Pipe ..	4.5"	2.764"	1113'	
Handling Sub & Choke Assembly				
Dual CIP Valve	5"	.87"	67"	
Dual CIP Sampler				
Hydro-Spring Tester	5"	.75"	60.21"	4208'
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	3.06"	49.63" q	4209'
Hydraulic Jar				
VR Safety Joint				
Pressure Equalizing Crossover				
Packer Assembly	6.75"	1.53"	54"	4215'
Distributor				
Packer Assembly	6.75"	1.53"	54"	4220'
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				
Flush Joint Anchor	5"	3.24"	6'	
Blanked-Off B.T. Running Case	5"	2.44"	48.71"	4229'
Total Depth				4233'

TEMPERATURE
RECORDER
CHART

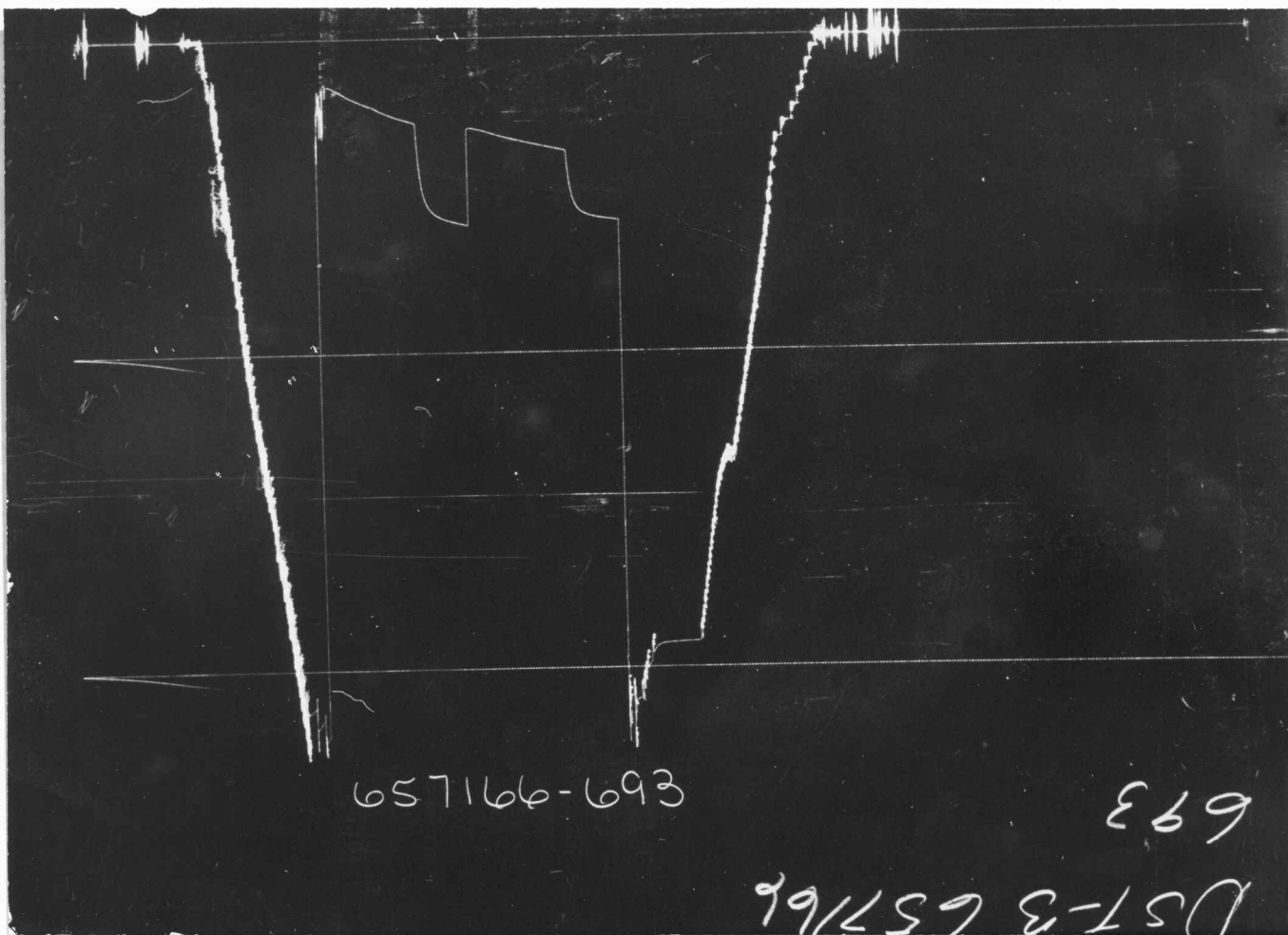


10° each circle

PRESSURE



TIME



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

Gauge No. 991			Depth 4239'			Clock No. 10858			12 hour	Ticket No. 657167					
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"	$\text{Log} \frac{t + \theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\text{Log} \frac{t + \theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\text{Log} \frac{t + \theta}{\theta}$	PSIG Temp. Corr.
0	.0000	25	.0000		229	.0000	237	.0000		471					
1	.0338	69	.0136		956	.0598	285*	.0198		1001**					
2	.0677	108	.0272		1026	.1262	330	.0331		1017					
3	.1015	143	.0408		1041	.1927	372	.0463		1026					
4	.1353	174	.0544		1049	.2591	409	.0595		1031					
5	.1692	203	.0680		1055	.3256	440	.0727		1034					
6	.2030	229	.0816		1058	.3920	471	.0859		1037					
7			.0952		1061			.0992		1039					
8			.1088		1063			.1124		1041					
9			.1224		1066			.1256		1043					
10			.1360		1067			.1389		1045					
11			.1496		1069			.1521		1047					
12			.1632		1070			.1653		1048					
13			.1768		1070			.1785		1049					
14			.1904		1071			.1918		1051					
15			.2040		1072			.2050		1051					

Gauge No. 693			Depth 4274'			Clock No. 7105			12hour						
0	.0000	46	.0000		244	.0000	254	.0000		486					
1	.0333	82	.0136		1010	.0599	298*	.0203		1018**					
2	.0667	121	.0272		1047	.1266	344	.0339		1035					
3	.1000	157	.0408		1059	.1932	385	.0474		1044					
4	.1333	189	.0544		1066	.2598	421	.0610		1048					
5	.1667	217	.0680		1072	.3264	454	.0745		1052					
6	.2000	244	.0816		1075	.3930	486	.0881		1055					
7			.0952		1078			.1016		1057					
8			.1088		1080			.1152		1059					
9			.1224		1081			.1287		1061					
10			.1360		1083			.1423		1062					
11			.1496		1084			.1558		1063					
12			.1632		1085			.1694		1065					
13			.1768		1086			.1829		1066					
14			.1904		1088			.1964		1067					
15			.2040		1089			.2100		1068					

Reading Interval 5 2 10 2 Minutes

REMARKS: *Interval = 9 minutes **Interval = 3 minutes

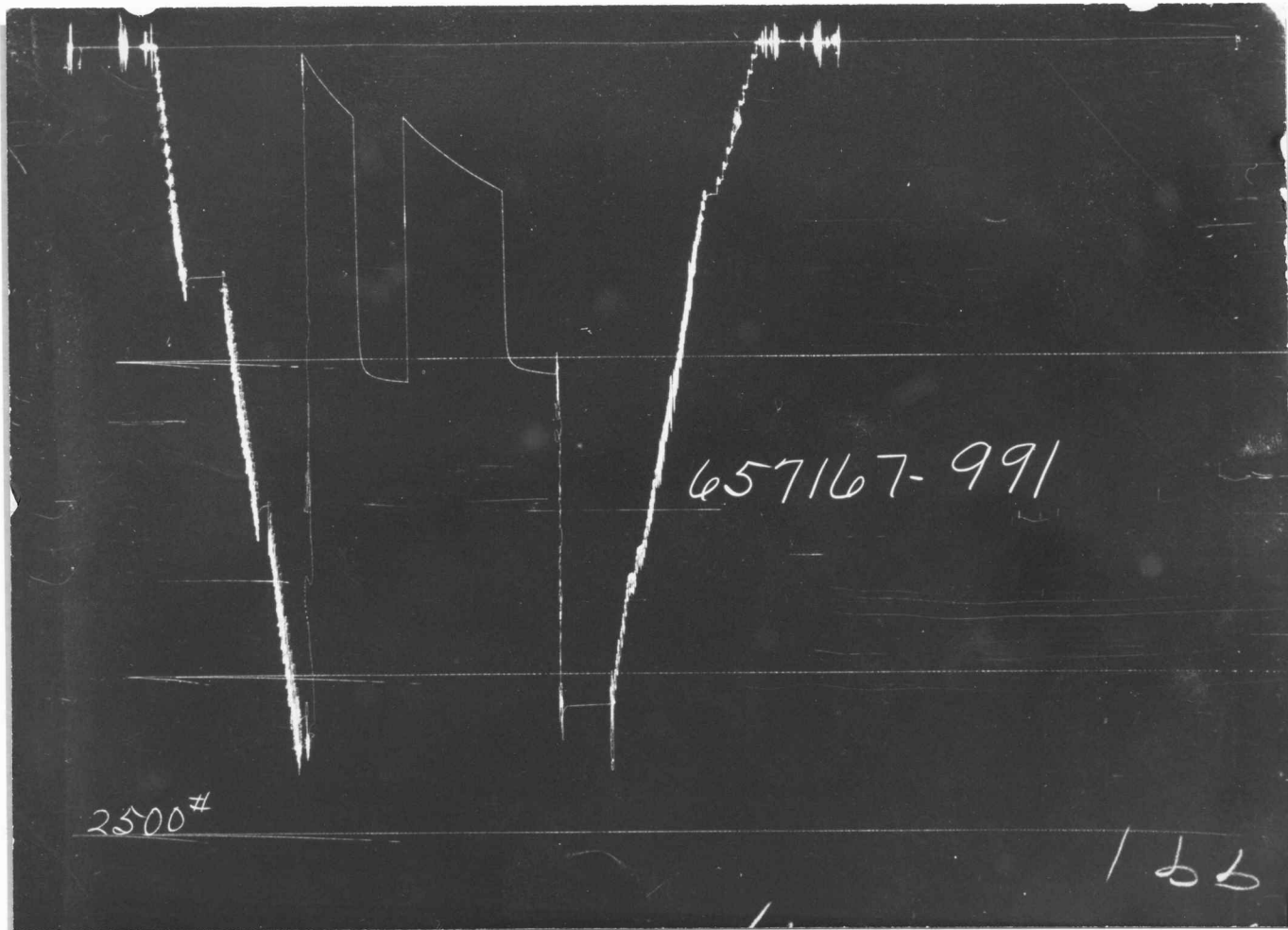
	O. D.	I. D.	LENGTH	DEPTH
Drill Pipe or Tubing	5.75"	2.75"	12"	
Reversing Sub				
Water Cushion Valve				
Drill Pipe	4.5"	3.826"	3121'	
Drill Collars	4.5" WP	2.764"	1113'	
Handling Sub & Choke Assembly				
Dual CIP Valve	5"	.87"	67"	
Dual CIP Sampler				
Hydro-Spring Tester	5"	.75"	60.21"	4238'
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	3.06"	49.63"	4239'
Hydraulic Jar				
VR Safety Joint				
Pressure Equalizing Crossover				
Packer Assembly	6.75"	1.53"	54"	4245'
Distributor				
Packer Assembly	6.75"	1.53"	54"	4250'
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				
Flush Joint Anchor	5"	3.24"	21'	
Blanked-Off B.T. Running Case	5"	2.44"	48.71"	4274'
Total Depth				4278'

TEMPERATURE
RECORDER
CHART

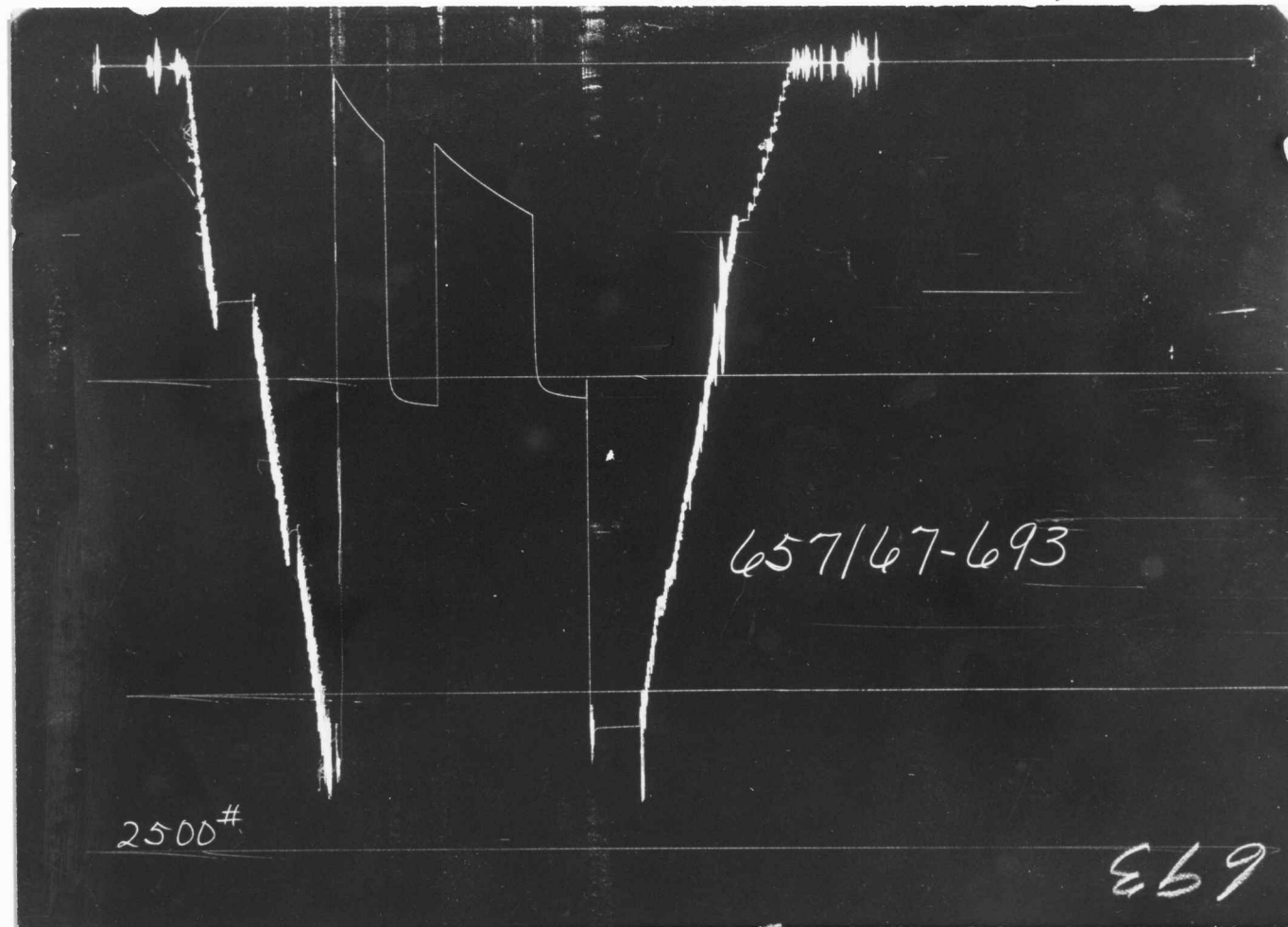


10° each circle

PRESSURE



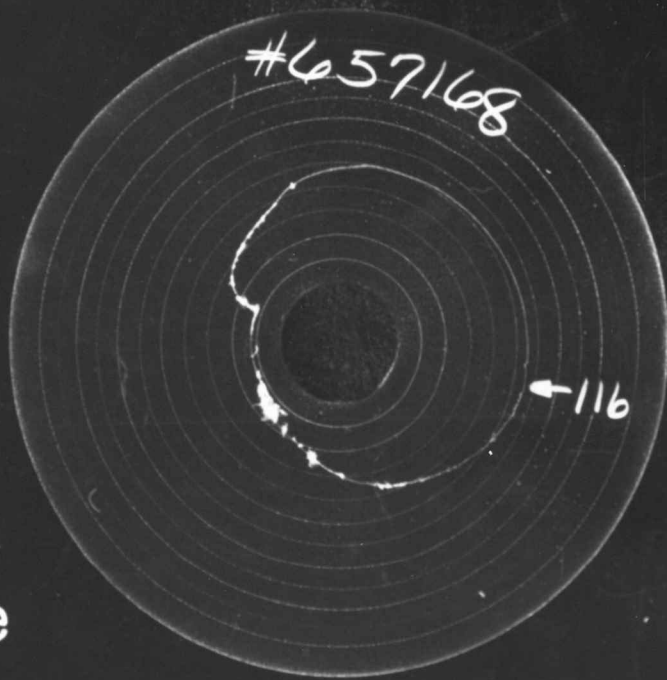
TIME



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

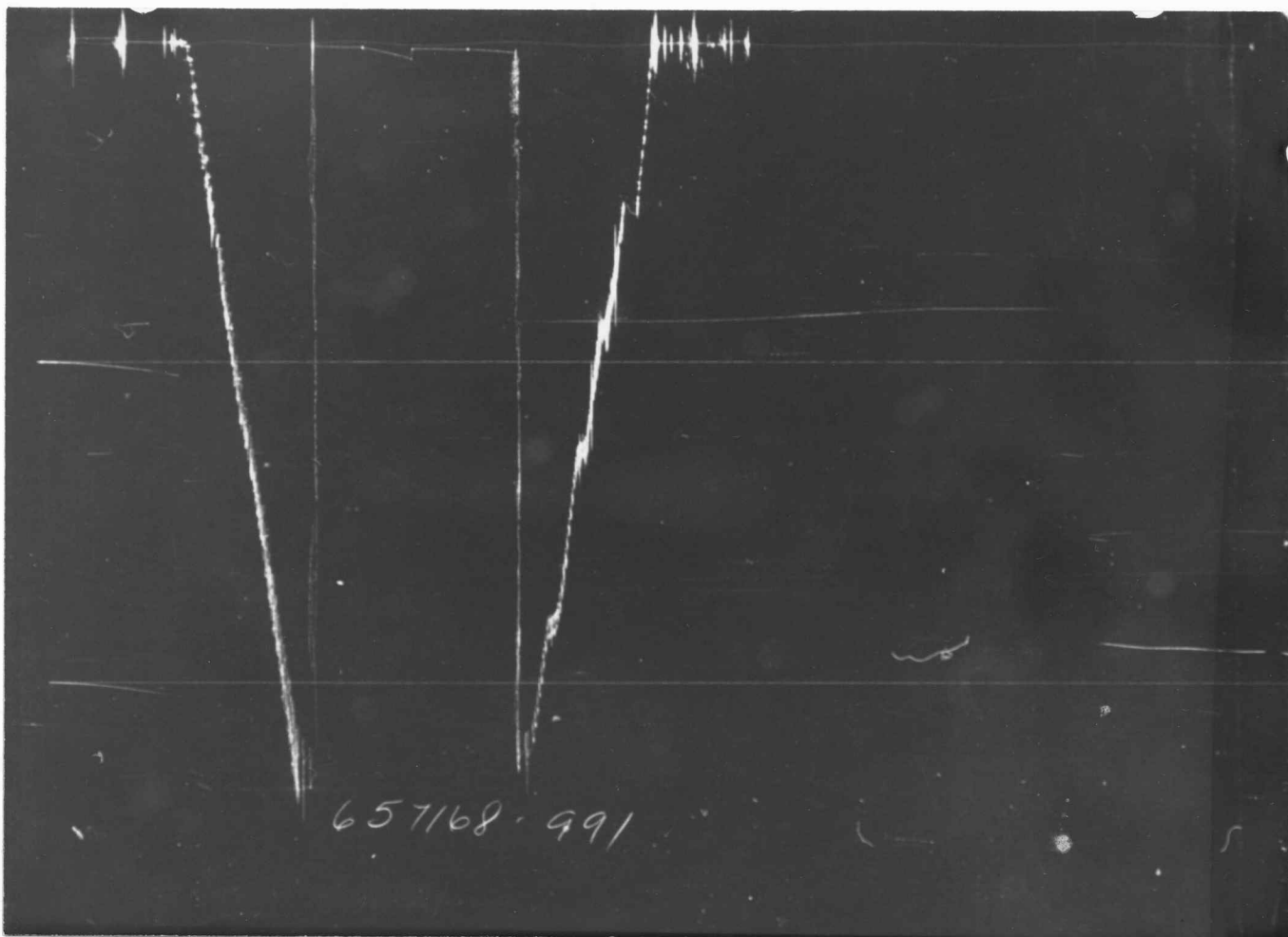
	O. D.	I. D.	LENGTH	DEPTH
Drill Pipe or Tubing	5.75"	2.75"	12"	
Reversing Sub				
Water Cushion Valve				
Drill Pipe	4.5"	3.826"	3277'	
Drill Collars = Weight Pipe	4.5"	2.764"	1082'	
Handling Sub & Choke Assembly				
Dual CIP Valve	5"	.87"	67"	
Dual CIP Sampler				
Hydro-Spring Tester	5"	.75"	60.21"	4340'
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	3.06"	49.63"	4341'
Hydraulic Jar				
VR Safety Joint				
Pressure Equalizing Crossover				
Packer Assembly	6.75"	1.53"	54"	4347'
Distributor				
Packer Assembly	6.75"	1.53"	54"	4352'
Flush Joint Anchor	5"	3.24"	17'	
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 = Weight Pipe	4.5"	2.76"	33'	
Flush Joint Anchor	5"	3.24"	5'	
Blanked-Off B.T. Running Case	5"	2.44"	48.71"	4410'
Total Depth				4414'

TEMPERATURE
RECORDER
CHART

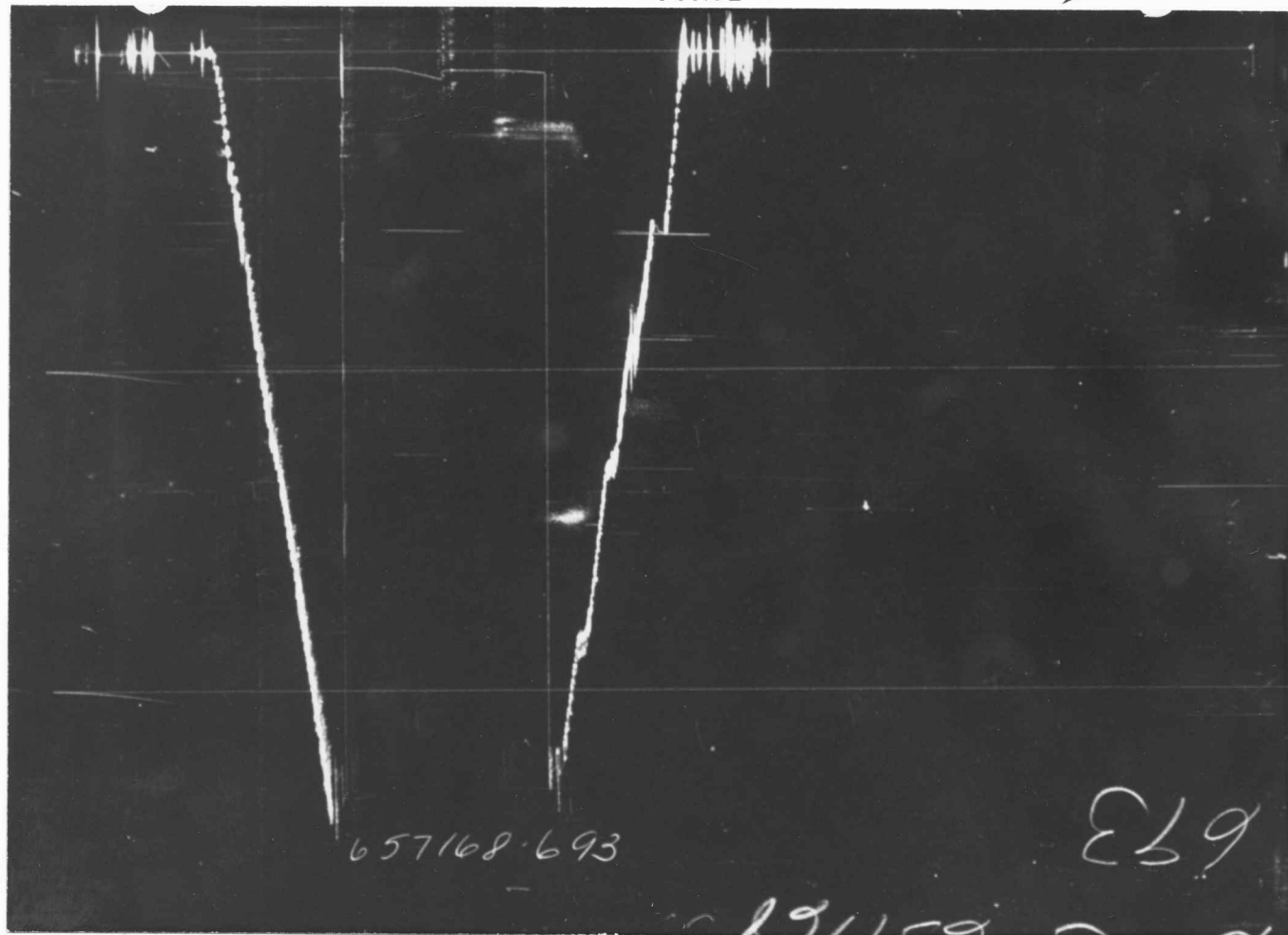


10° each circle

PRESSURE



TIME



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

HARLAMERT

Lease Name

3

Well No.

6

Test No.

4410' - 4470'

Tested Interval

BEREN CORPORATION

Lease Owner/Company Name

Legal Location
Sec. - Twp. - Rng.

25 - 17 - 28W

Field Area
Med. From Tester Valve
WHITE ROCK POOL

County

LANE

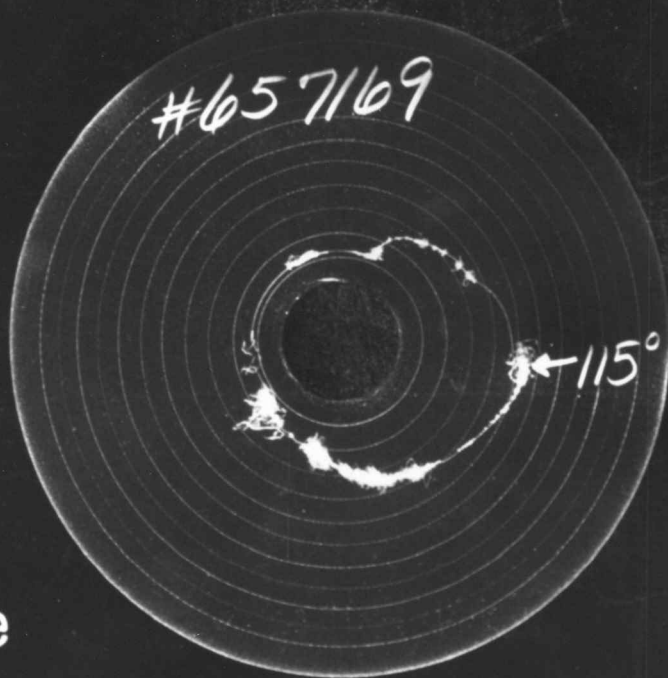
State

KANSAS

FLUID SAMPLE DATA				Date		Ticket Number	
Sampler Pressure _____ P.S.I.G. at Surface				2-22-75		657169	
Recovery: Cu. Ft. Gas _____				Kind of Job		Halliburton District	
cc. Oil _____				OPEN HOLE		HAYS	
cc. Water _____				Tester		PFANNENSTIEL Witness LEWELLYN	
cc. Mud _____				Drilling Contractor		RED TIGER DRILLING COMPANY NM	
Tot. Liquid cc. _____				EQUIPMENT & HOLE DATA			
Gravity _____ ° API @ _____ °F.		RESISTIVITY _____		Formation Tested		Pawnee	
Gas/Oil Ratio _____ cu. ft./bbl.		CHLORIDE CONTENT _____		Elevation		2730' Ft.	
Recovery Water _____ @ _____ °F. _____ ppm				Net Productive Interval		3' Ft.	
Recovery Mud _____ @ _____ °F. _____ ppm				All Depths Measured From		Kelly Bushing	
Recovery Mud Filtrate _____ @ _____ °F. _____ ppm				Total Depth		4470' Ft.	
Mud Pit Sample _____ @ _____ °F. _____ ppm				Main Hole/Casing Size		7 7/8" - 8 5/8"	
Mud Pit Sample Filtrate _____ @ _____ °F. _____ ppm				Drill Pipe Length		3278' I.D. 3.826"	
Mud Weight 9.5 vis 45 cp				Packer Depth(s)		4405' - 4410' Ft.	
				Depth Tester Valve		4398' Ft.	
Cushion TYPE AMOUNT		Depth Back Pres. Valve		Surface Choke		Bottom Choke	
NONE		NONE		1/4"		3/4"	
Recovered 10' Feet of mud							
Recovered Feet of							
Recovered Feet of							
Recovered Feet of							
Recovered Feet of							
Remarks Tool opened with a weak blow for a 30 minute first flow. Closed tool for a 30 minute first closed in pressure. Tool reopened for a 30 minute second flow with no blow. Took a 30 minute second closed in pressure.							
TEMPERATURE		Gauge No. 991		Gauge No. 693		Gauge No.	
Depth: 4399' Ft.		Depth: 4466' Ft.		Depth: _____ Ft.		TIME	
12 Hour Clock		12 Hour Clock		Hour Clock		Tool A.M.	
Blanked Off NO		Blanked Off YES		Blanked Off		Opened 1530 P.M.	
Actual 115°F.		Pressures		Pressures		Opened A.M.	
		Pressures		Pressures		Bypass 1700 P.M.	
Field Office		Field Office		Field Office		Reported Computed	
Initial Hydrostatic - 2268		2357 2314				Minutes Minutes	
First Period Flow Initial - 9		56 51					
Final - 12		56 51				30	
Closed in - 24		63 63				30	
Second Period Flow Initial - 15		56 59					
Final - 14		56 54				30	
Closed in - 19		58 58				30	
Third Period Flow Initial -							
Final -							
Closed in -							
Final Hydrostatic - 2224		2285 2256					

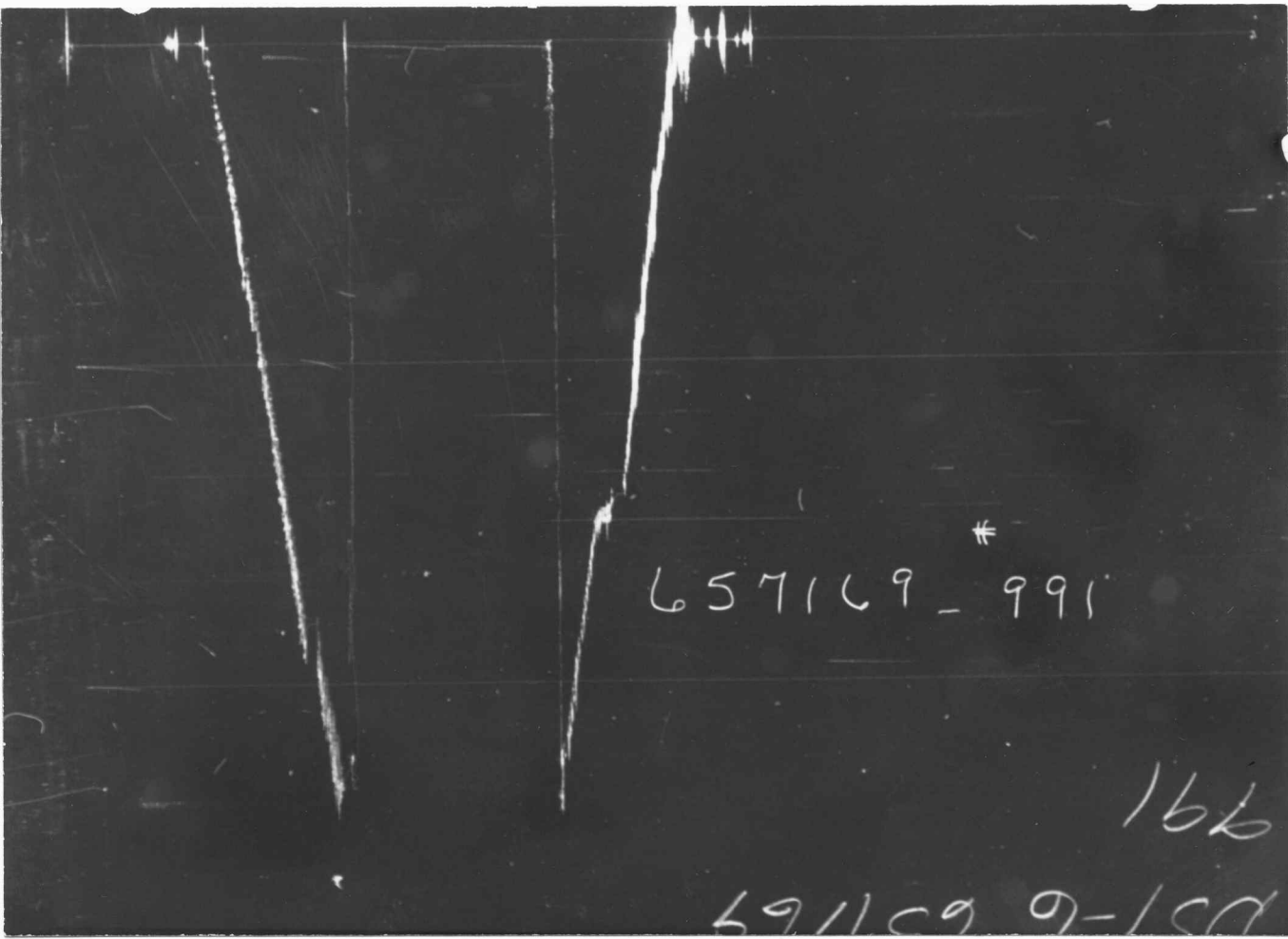
	O. D.	I. D.	LENGTH	DEPTH
Drill Pipe or Tubing				
Reversing Sub	5.75"	2.75"	12"	
Water Cushion Valve				
Drill Pipe	4.5"	3.826"	3278'	
Drill Collars WEIGHT PIPE	4.5"	2.764"	1113' WEIGHT PIPE	
Handling Sub & Choke Assembly	5"	.87"	67"	
Dual CIP Valve				
Dual CIP Sampler	5"	.75"	60.21"	4398'
Hydro-Spring Tester				
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	3.06"	49.63"	4399'
Hydraulic Jar				
VR Safety Joint				
Pressure Equalizing Crossover				
Packer Assembly	6.75"	1.53"	54"	4405'
Distributor				
Packer Assembly	6.75"	1.53"	54"	4410'
Flush Joint Anchor	5"	3.24"	15'	
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 DRILL PIPE	4.5"	3.82"	32'	
Flush Joint Anchor	5"	3.24"	6'	
Blanked-Off B.T. Running Case	5"	2.44"	48.71"	4466'
Total Depth				4470'

TEMPERATURE
RECORDER
CHART

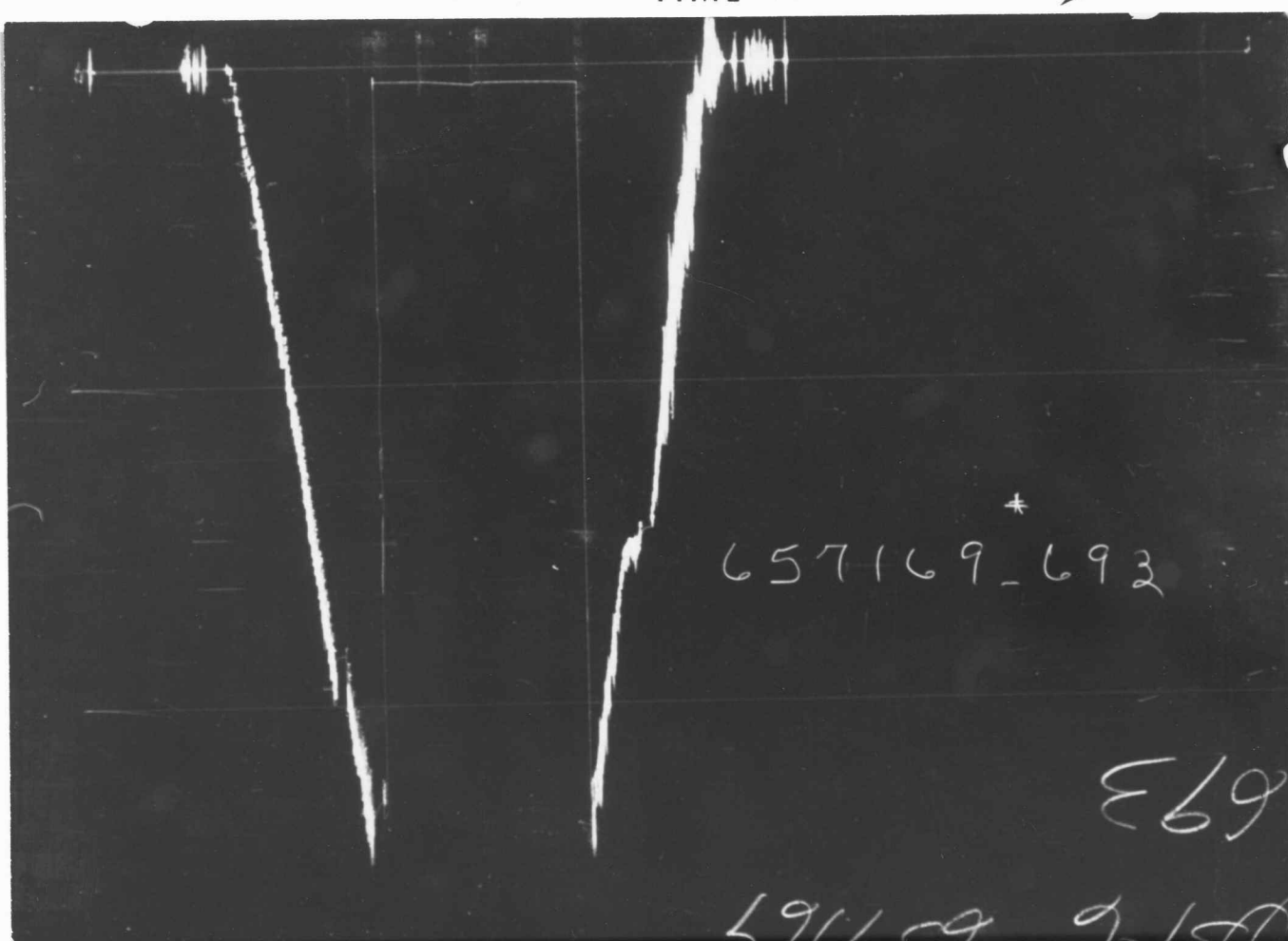


10° each circle

PRESSURE



TIME



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

Gauge No. 991					Depth 4549'			Clock No. 10858			12 hour	Ticket No. 657170			
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"	$\text{Log} \frac{t + \theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\text{Log} \frac{t + \theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\text{Log} \frac{t + \theta}{\theta}$	PSIG Temp. Corr.
0	.0000	13	.0000		23	.0000	29	.0000		46					
1	.0322	14	.0274*		58	.0987	31	.0343**		60					
2	.0643	16	.0479		179	.1973	34	.0755		92					
3	.0965	18	.0684		567	.2960	37	.1167		170					
4	.1287	20	.0889		767	.3947	41	.1579		377					
5	.1609	21	.1094		861	.4934	43	.1991		567					
6	.1930	23	.1300		916	.5920	46	.2403		664					
7			.1505		955			.2815		718					
8			.1710		983			.3227		757					
9			.1915		1006			.3639		788					
10			.2120		1023			.4050		813					
11															
12															
13															
14															
15															

Gauge No. 693			Depth 4586'			Clock No. 7105			12 hour					
0	.0000	34	.0000		42	.0000	51	.0000		66				
1	.0333	34	.0263*		79	.1002	53	.0336**		83				
2	.0667	35	.0461		252	.2003	54	.0738		116				
3	.1000	38	.0658		641	.3005	58	.1141		202				
4	.1333	39	.0855		811	.4007	60	.1544		421				
5	.1667	41	.1053		892	.5009	63	.1946		600				
6	.2000	42	.1250		940	.6010	66	.2349		688				
7			.1448		975			.2752		743				
8			.1645		1002			.3155		779				
9			.1842		1024			.3557		810				
10			.2040		1043			.3960		835				
11														
12														
13														
14														
15														
Reading Interval 5			3			15			6			Minutes		

REMARKS: *First interval is equal to 4 minutes. ** = 5 minutes.

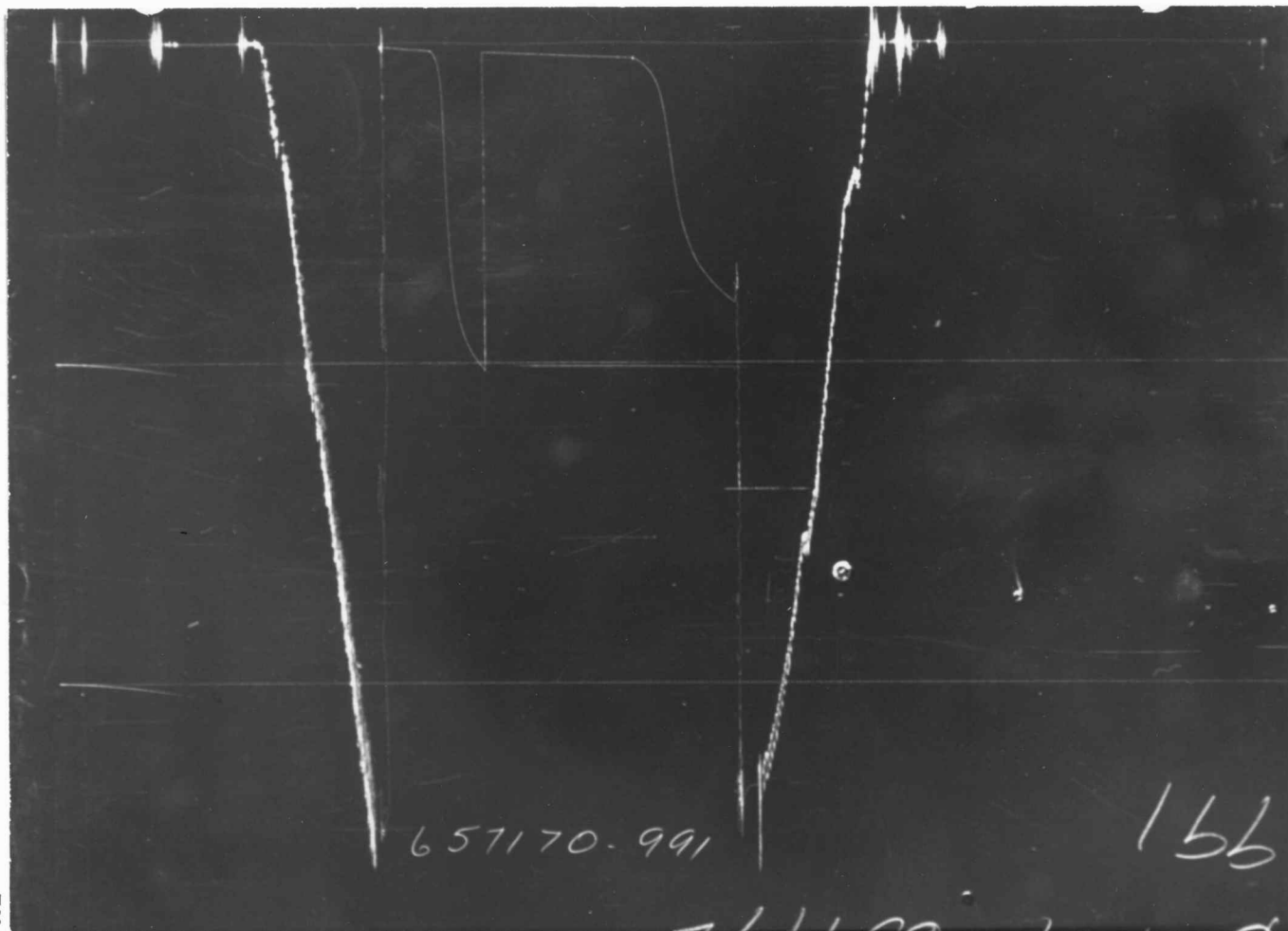
	O. D.	I. D.	LENGTH	DEPTH
Drill Pipe or Tubing				
Reversing Sub	5.75"	2.75"	12"	
Water Cushion Valve				
Drill Pipe	4.5"	3.826"	3434'	
Drill Collars	4.5	2.764"	1113'	
Handling Sub & Choke Assembly				
Dual CIP Valve	5"	.87"	67"	
Dual CIP Sampler				
Hydro-Spring Tester	5"	.75"	60.21"	4548'
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	3.06"	49.63"	4549'
Hydraulic Jar				
VR Safety Joint				
Pressure Equalizing Crossover				
Packer Assembly	6.75"	1.53"	54"	4555'
Distributor				
Packer Assembly	6.75"	1.53"	54"	4560'
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				
Flush Joint Anchor	5"	3.24"	23'	
Blanked-Off B.T. Running Case	5"	2.44"	48.71"	4586'
Total Depth				4590'

TEMPERATURE
RECORDER
CHART

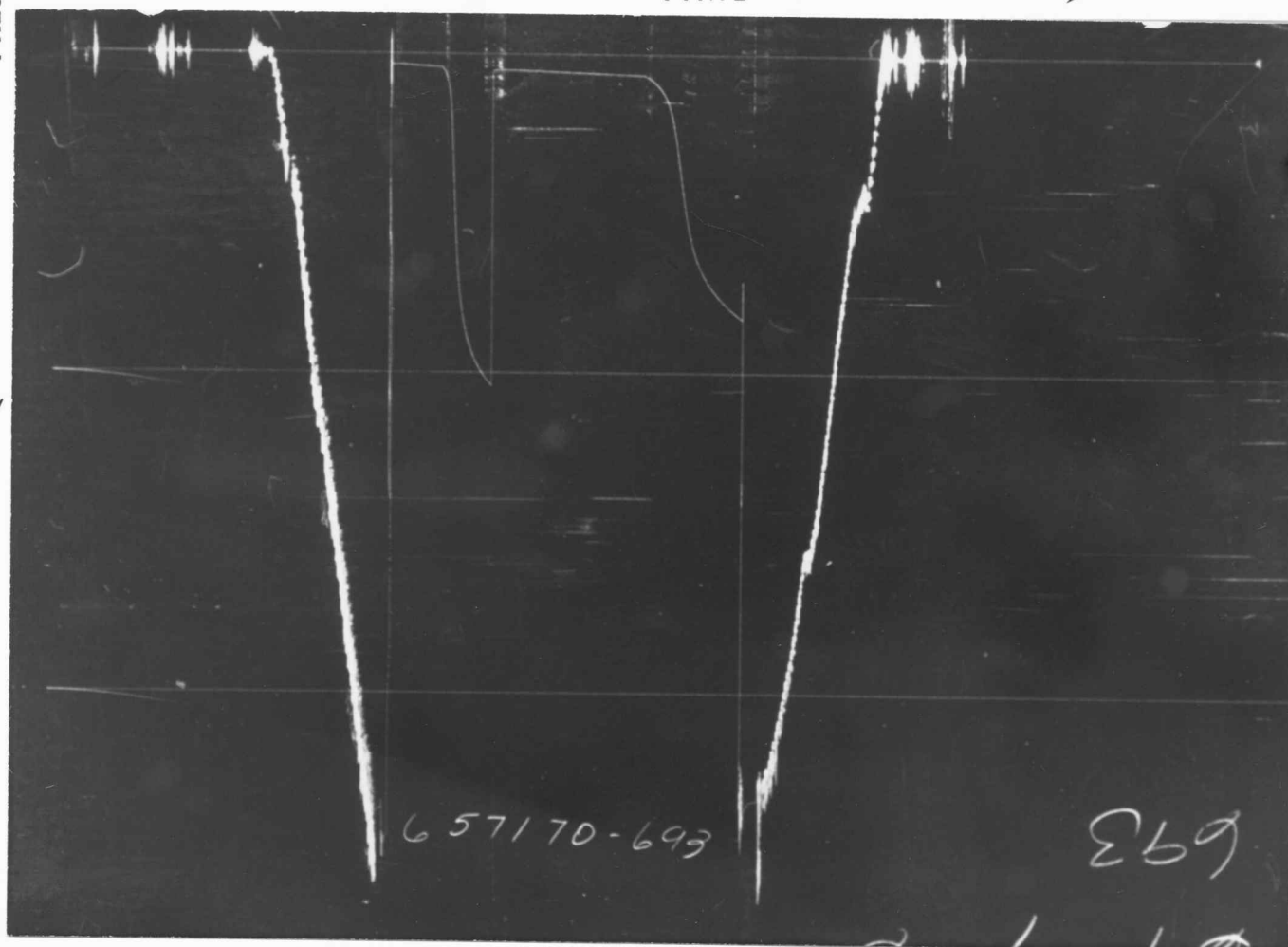


10° each circle

PRESSURE



TIME



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