

FLUID SAMPLE DATA				Date	Ticket Number	
Sampler Pressure _____ P.S.I.G. at Surface				2-1-76	795514	
Recovery: Cu. Ft. Gas _____				Kind of Job	Halliburton District	
cc. Oil _____				OPEN HOLE	HAYS	
cc. Water _____				Tester	Witness	
cc. Mud _____				HAMMONDS	-	
Tot. Liquid cc. _____				Drilling Contractor	SLAWSON DRILLING COMPANY	
Gravity _____ ° API @ _____ °F.				NM S		
Gas/Oil Ratio _____ cu. ft./bbl.				EQUIPMENT & HOLE DATA		
RESISTIVITY _____ CHLORIDE CONTENT _____				Formation Tested	Lansing	
Recovery Water @ _____ °F. _____ ppm				Elevation	2725' K.B. _____ Ft.	
Recovery Mud @ _____ °F. _____ ppm				Net Productive Interval	- _____ Ft.	
Recovery Mud Filtrate @ _____ °F. _____ ppm				All Depths Measured From	Kelly Bushing _____ Ft.	
Mud Pit Sample @ _____ °F. _____ ppm				Total Depth	4222' _____ Ft.	
Mud Pit Sample Filtrate @ _____ °F. _____ ppm				Main Hole/Casing Size	7 7/8" _____	
Mud Weight 9.6 vis 41 cp				Drill Pipe Length	4067' I.D. 3.826" _____ Ft.	
				Packer Depth(s)	4204' _____ Ft.	
				Depth Tester Valve	4187' _____ Ft.	
Cushion		TYPE	AMOUNT	Depth Back Pres. Valve	Surface Choke	Bottom Choke
			NONE	NONE	1/4"	3/4"
Recovered	90'	Feet of	muddy salt water with a few light specks of oil			
Recovered		Feet of				
Recovered		Feet of				
Recovered		Feet of				
Recovered		Feet of				
Remarks	SEE PRODUCTION TEST DATA SHEET.∴					

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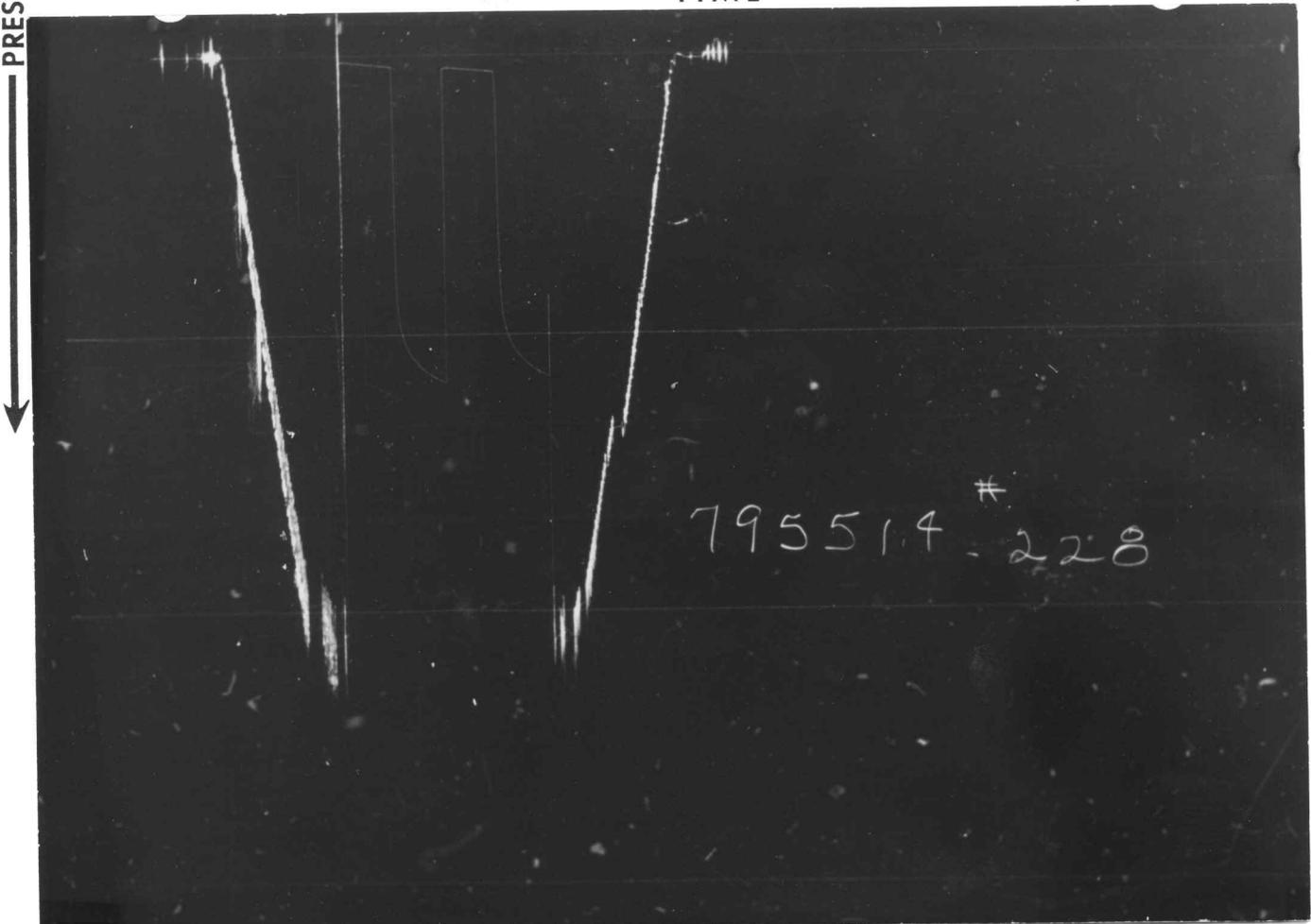
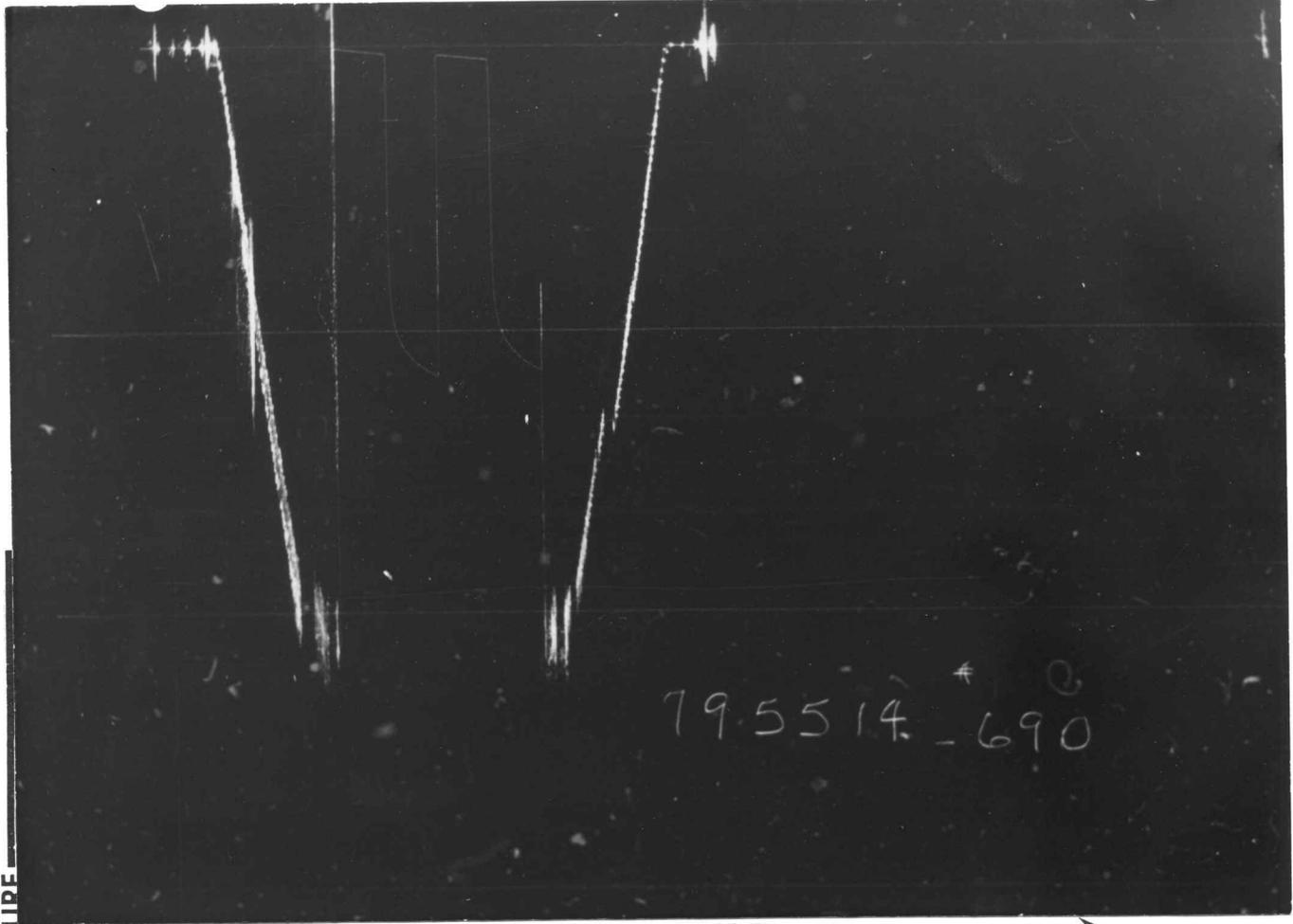
Halliburton Company
Duncan, Oklahoma

TEMPERATURE	Gauge No. 690		Gauge No. 228		Gauge No.		TIME	
	Depth:	4188' Ft.	Depth:	4218' Ft.	Depth:	Ft.		
Est. C-110 °F.	12	Hour Clock	12	Hour Clock		Hour Clock	Tool	A.M.
	Blanked Off	NO	Blanked Off	YES	Blanked Off		Opened	1450 P.M.
Actual °F.	Pressures		Pressures		Pressures		Opened	A.M.
	Field	Office	Field	Office	Field	Office	Bypass	1650 P.M.
Initial Hydrostatic	-	2107	2115	2134			Reported	Computed
							Minutes	Minutes
First Period	Flow Initial	-	8	18	26			
	Flow Final	-	29	37	44		30	31
	Closed in	-	1164	1175	1178		30	30
Second Period	Flow Initial	-	36	37	54			
	Flow Final	-	49	55	61		30	30
	Closed in	-	1145	1147	1156		30	30
Third Period	Flow Initial	-						
	Flow Final	-						
Final Hydrostatic	-	2079	2087	2115				

Legal Location Sec. - Twp. - Rng. 30 - 19 - 27
 Lease Name HORTON "C"
 Well No. 1
 Test No. 1
 Tested Interval 4204' - 4222'
 County WILDCAT
 State KANSAS
 Lease Owner/Company Name DONALD C. SLAWSON

Gauge No.		690		Depth		4188'		Clock No.		14281		12 hour		Ticket No.		795514	
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	8	.000	.000	29	.000	.000	.000	49	.000	.000	.000	49	.000	.000	.000	
1	.0399	13*	.0198	.0340	943	.0340	.0340	.0201	901	.0201	.0201	.0201	901	.0201	.0201	.0201	
2	.0731	16	.0396	.0680	1019	.0680	.0680	.0402	992	.0402	.0402	.0402	992	.0402	.0402	.0402	
3	.1063	19	.0594	.1020	1060	.1020	.1020	.0603	1037	.0603	.0603	.0603	1037	.0603	.0603	.0603	
4	.1395	23	.0792	.1360	1085	.1360	.1360	.0804	1062	.0804	.0804	.0804	1062	.0804	.0804	.0804	
5	.1728	25	.0990	.1700	1107	.1700	.1700	.1005	1080	.1005	.1005	.1005	1080	.1005	.1005	.1005	
6	.2060	29	.1188	.2040	1122	.2040	.2040	.1206	1101	.1206	.1206	.1206	1101	.1206	.1206	.1206	
7			.1386		1136			.1407	1115	.1407	.1407	.1407	1115	.1407	.1407	.1407	
8			.1584		1147			.1608	1127	.1608	.1608	.1608	1127	.1608	.1608	.1608	
9			.1782		1157			.1809	1137	.1809	.1809	.1809	1137	.1809	.1809	.1809	
10			.1980		1164			.2010	1145	.2010	.2010	.2010	1145	.2010	.2010	.2010	
11																	
12																	
13																	
14																	
15																	
Gauge No.		228		Depth		4218'		Clock No.		13855		hour		12			
0	.000	26	.000	.000	44	.000	.000	.000	61	.000	.000	.000	61	.000	.000	.000	
1	.0403	27*	.020	.0338	952	.0338	.0338	.0202	903	.0202	.0202	.0202	903	.0202	.0202	.0202	
2	.0738	31	.040	.0677	1033	.0677	.0677	.0404	1004	.0404	.0404	.0404	1004	.0404	.0404	.0404	
3	.1074	33	.060	.1015	1074	.1015	.1015	.0606	1045	.0606	.0606	.0606	1045	.0606	.0606	.0606	
4	.1409	37	.080	.1353	1098	.1353	.1353	.0808	1074	.0808	.0808	.0808	1074	.0808	.0808	.0808	
5	.1745	40	.100	.1692	1120	.1692	.1692	.1010	1093	.1010	.1010	.1010	1093	.1010	.1010	.1010	
6	.2080	44	.120	.2030	1137	.2030	.2030	.1212	1113	.1212	.1212	.1212	1113	.1212	.1212	.1212	
7			.140		1151			.1414	1127	.1414	.1414	.1414	1127	.1414	.1414	.1414	
8			.160		1161			.1616	1138	.1616	.1616	.1616	1138	.1616	.1616	.1616	
9			.180		1170			.1818	1148	.1818	.1818	.1818	1148	.1818	.1818	.1818	
10			.200		1178			.2020	1156	.2020	.2020	.2020	1156	.2020	.2020	.2020	
11																	
12																	
13																	
14																	
15																	
Reading Interval		5		3		5		3		3		Minutes					
REMARKS: * INTERVAL = 6 MINUTES.																	

	O. D.	I. D.	LENGTH	DEPTH
Drill Pipe or Tubing	5.75"	2.75"	1.00'	
Reversing Sub				
Water Cushion Valve				
Drill Pipe	4½"	3.826"	4067'	
* Drill Collars * WEIGHT PIPE	4½"	2.764"	310'	
Handling Sub & Choke Assembly	5.00"	.87"	5.50'	4181'
Dual CIP Valve				
Dual CIP Sampler	5.00"	.75"	5.00'	4187'
Hydro-Spring Tester				
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5.00"	3.75"	4.00'	4188'
Hydraulic Jar	5.00"	1.75"	5.00'	
VR Safety Joint	5.00"	1.00"	2.80'	
Pressure Equalizing Crossover				
Packer Assembly				
Distributor				
Packer Assembly	6.75"	1.53"	5.85'	4204'
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	5.00"	3.84"	12.00'	
Blanked-Off B.T. Running Case	5.00"	2.75"	4.00'	4218'
Total Depth				4222'



HORTON C

Lease Name

Well No. 1

Test No. 2

Tested Interval

County LANE

State KANSAS

Lease Owner/Company Name

Legal Location Sec. - Twp. - Rng. 30 - 19 - 27

4430' - 4570'

DONALD C. SLAWSON

FLUID SAMPLE DATA		Date 2-3-76	Ticket Number 795515
Sampler Pressure _____ P.S.I.G. at Surface	Kind of Job OPEN HOLE TEST	Halliburton District HAYS	
Recovery: Cu. Ft. Gas _____ cc. Oil _____ cc. Water _____ cc. Mud _____ Tot. Liquid cc. _____	Tester MR. HAMMONDS	Witness MR. SPRUDLIN	
Gravity _____ ° API @ _____ ° F.	Drilling Contractor SLAWSON DRILLING COMPANY	PW _____	
Gas/Oil Ratio _____ cu. ft./bbl.	EQUIPMENT & HOLE DATA		
RESISTIVITY _____ CHLORIDE CONTENT _____	Formation Tested Lower Cherokee		
Recovery Water _____ @ _____ ° F. _____ ppm	Elevation 2725' K.B.		Ft.
Recovery Mud _____ @ _____ ° F. _____ ppm	Net Productive Interval _____		Ft.
Recovery Mud Filtrate _____ @ _____ ° F. _____ ppm	All Depths Measured From Kelly Bushing		
Mud Pit Sample _____ @ _____ ° F. _____ ppm	Total Depth 4570'		Ft.
Mud Pit Sample Filtrate _____ @ _____ ° F. _____ ppm	Main Hole/Casing Size 7 7/8"		
Mud Weight 9.6 vis 52 cp	Drill Collar Length 315'	I.D. 2.764" WP	
	Drill Pipe Length 4213'	I.D. 3.826"	
	Packer Depth(s) 4430'		Ft.
	Depth Tester Valve 4413'		Ft.

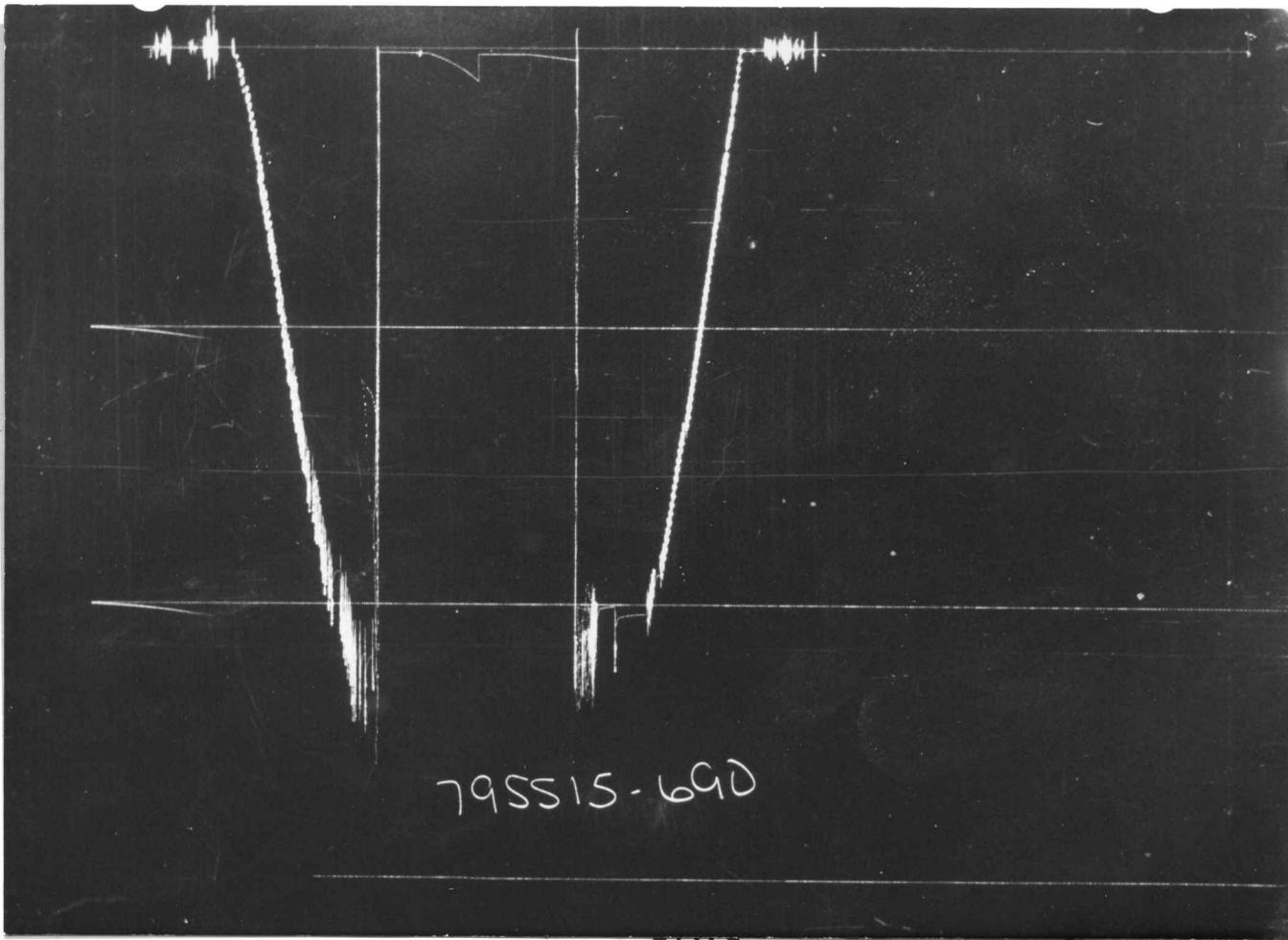
Cushion	TYPE	AMOUNT	Depth Back Pres. Valve	Surface Choke	Bottom Choke
				1/4"	3/4"

Recovered	30 Feet of Drilling mud.	Med. From Tester Valve
Recovered	Feet of	

Remarks SEE PRODUCTION TEST DATA SHEET.....

TEMPERATURE	Gauge No. 690		Gauge No. 228		Gauge No.		TIME
	Depth:	4414' Ft.	Depth:	4566' Ft.	Depth:	Ft.	
Calc.	12 Hour Clock		12 Hour Clock		Hour Clock		Tool A.M.
Est. 110 °F.	Blanked Off NO		Blanked Off YES		Blanked Off		Opened 07:10 P.M.
Actual °F.	Pressures		Pressures		Pressures		Opened A.M.
	Field	Office	Field	Office	Field	Office	Bypass 09:10 P.M.
Initial Hydrostatic		2240	2320	2319			Reported Minutes
First Period	Flow Initial	16	83	96			Computed Minutes
	Flow Final	19	92	95			
	Closed in	121	185	192			30
Second Period	Flow Initial	25	92	104			30
	Flow Final	23	92	96			30
	Closed in	45	111	113			30
Third Period	Flow Initial						
	Flow Final						
Closed in							
Final Hydrostatic		2182	2264	2259			

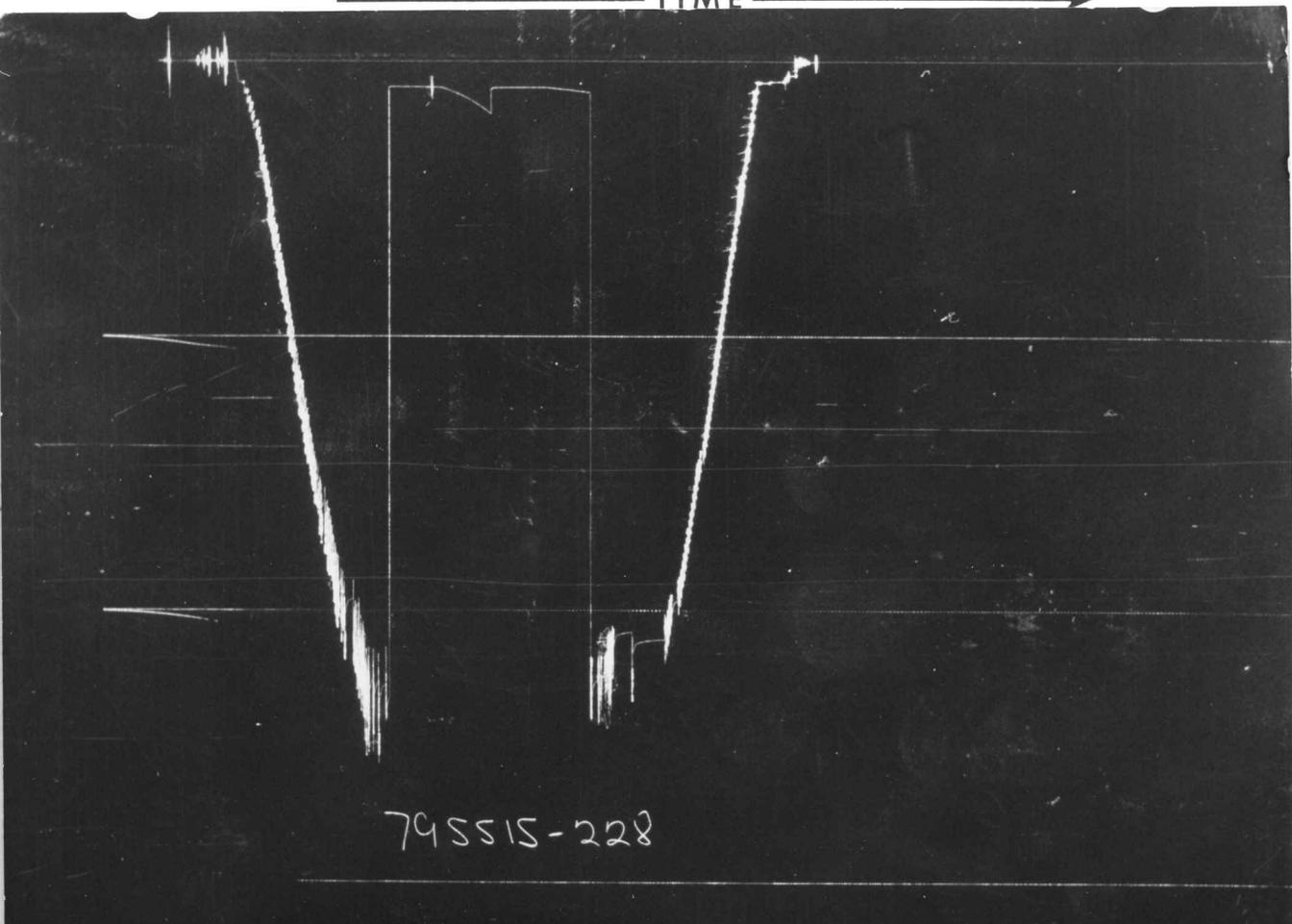
	O. D.	I. D.	LENGTH	DEPTH
Drill Pipe or Tubing	5.75"	2.75"	1.00'	
Reversing Sub				
Water Cushion Valve				
Drill Pipe	4 1/2"	3.826"	4213'	
Drill Collars WEIGHT. PIPE.....	4 1/2"	2.764"	315'	
Handling Sub & Choke Assembly				
Dual CIP Valve	5.0"	.87"	5.50'	4407'
Dual CIP Sampler				
Hydro-Spring Tester	5.0"	.75"	5.0'	4413'
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5.0"	3.75"	4.00'	4414'
Hydraulic Jar	5.0"	1.75"	5.0'	
VR Safety Joint	5.0"	1.00"	2.80'	
Pressure Equalizing Crossover				
Packer Assembly	6.75"	1.53"	5.85'	4430'
Distributor				
Packer Assembly				
Flush Joint Anchor	5.0"	3.06"	7.0'	
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"	2.764"	125'	
Flush Joint Anchor				
Blanked-Off B.T. Running Case	5.0"	2.75"	4.0'	4566'
Total Depth				4570'



795515-690

PRESSURE

TIME



795515-228