

316/624-7340

DEAN'S TESTERS

Box 1182, Liberal, Ks.

Company Banks Oil Co. Date March 9, 1977
 Well Name & No. Bartel #1 Sec. 7 Twp. 32S Rge. 27W
 County Meade State Kans. Elevation _____
 Test Approved by Lee Banks Tester Dean Blagrave

DST No. 1 Formation K.C. Test Interval 4525 to 4554 Total Depth 4554
 Anchor Length 29 Anchor Size 4 1/2" OD Surface Choke 1/2" Bot. Choke 5/8"
 Top Packer Depth 4520 Damaged no Bottom Packer Depth 4525 Damaged no
 Below Straddle Depth _____ Damaged _____ Bot. Packer Depth _____ Damaged _____
 Recorders: Depth 4547 Make Kuster Capacity 6450 Ser. No. 6064 Inside
 Depth 4552 Make H&T Capacity 4750 Ser. No. 72 Outside
 Below Straddle: Depth _____ Make _____ Capacity _____ Ser. No. _____

PRESSURES:

Tool Open 15 min. IFP 78 psi to 65 psi
 Shut-In 45 min. ISIP 1524 psi
 Open 91 min. FFP 55 psi to 62 psi
 Shut-In 92 min. FSIP 1475 psi
 Hydrostatic Pressures: Initial 2221 Final 2185 Temp 108 °F
 Blow Strong GTS in 20 min. on Final Flow(35 min. total open time)
 Recovery 150' Mud

Extra Equipment 2 Packers, Jars, Sfty.jnt, Circ.sub.

Lengths: Tool 59 DP 3770 ID 3.8 Wt.P 220 ID 2.7 DC 527 ID 2.25
 Mud Type Starch Vis. 40 Wt. 9.1 Wtr. Loss 9.4 Chlorides 17,500 PPM

Remarks: Slid tool 10' to bottom after opened.

Pressure Break Down

Test ticket no. 222 Recorder no. 6064 Capacity 6450 Rec. Depth. 4547

Initial Flow pressure 78 to 65 Time

Given	Computed
<u>15</u>	<u>15</u>

Initial Closed in pressure 1524 45 45

Final Flow pressure 55 to 62 90 91

Final Closed-in pressure 1475 90 92

Initial Hydrostatic pressure 2221 Final Hydrostatic press. 2185 Temp 108

Initial Flow Press.

Minutes	Press
0	78
5	72
10	68
15	65
20	
25	
30	
35	
40	
45	
50	
55	
60	
65	
70	
75	
80	
85	
90	
95	
100	
105	
110	
115	
120	

Initial Closed in Press.

Minutes	Press
0	65
3	334
6	668
9	967
12	1205
15	1351
18	1433
21	1469
24	1488
27	1501
30	1508
33	1514
36	1517
39	1521
42	1521
45	1524
48	
51	
54	
57	
60	
63	
66	
69	
72	
75	
78	
81	
84	
87	
90	
93	
96	
99	
102	
105	
108	
111	
114	
117	
120	

Final Flow Press

Minutes	Press
0	55
5	55
10	52
15	52
20	52
25	52
30	52
35	52
40	55
45	55
50	55
55	55
60	59
65	59
70	59
75	59
80	62
85	62
90	62
95	
100	
105	
110	
115	
120	
125	
130	
135	
140	
145	
150	
155	
160	
165	
170	
175	
180	

Final Closed in Press.

Minutes	Press
0	62
3	757
6	1123
9	1267
12	1325
15	1358
18	1381
21	1394
24	1407
27	1416
30	1423
33	1429
36	1436
39	1439
42	1443
45	1446
48	1449
51	1452
54	1456
57	1459
60	1459
63	1462
66	1462
69	1465
72	1465
75	1469
78	1469
81	1472
84	1472
87	1472
90	1475
92 98	1475
96	
99	
102	
105	
108	
111	
114	
117	
120	

Box 1182

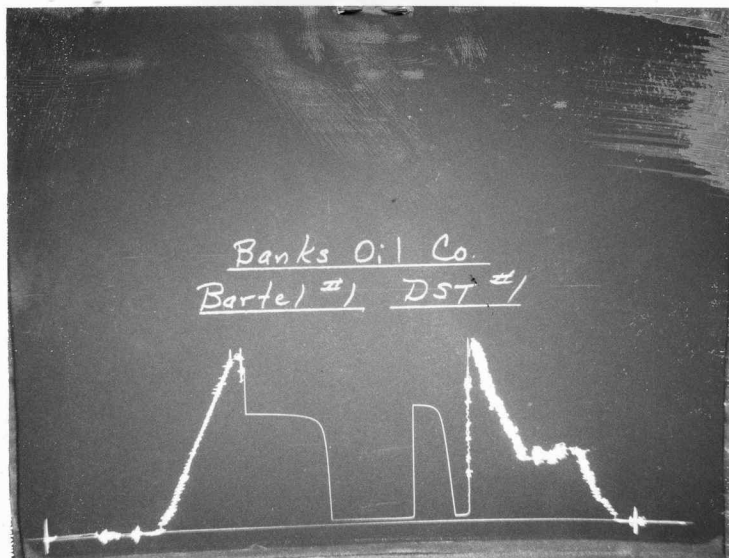
Dean's Testers

Liberal, Kansas 67901

Company Banks Oil Co. Well Bartel #1Test No. 1 Interval 4525 to 4554Method of guage Merla $\frac{1}{2}$ " orifice

Time Guage Gas Volume MCF/D

Second open**30 min. 8 in. wtr. 17.2****40 " 11 " " 20.9****50 " 13 " " 22.8****60 " 15 " " 24.5****70 " 16 " " 25.1****80 " 17 " " 25.8****90 " 19 " " 27.3**Surface Choke $\frac{1}{2}$ " Bottom Choke $\frac{5}{8}$ "Remarks: Gas to surface in 20 min. on Final Flow (35 min
total open time)



Actual photograph of test chart

Pressure Reading

Initial Flow pressure	<u>78 to 65</u>	PSI
Initial Closed in pressure	<u>1524</u>	PSI
Final Flow pressure	<u>55 to 62</u>	PSI
Final Closed in pressure	<u>1475</u>	PSI
Initial Hydrostatic pressure	<u>2221</u>	PSI
Final Hydrostatic pressure	<u>2185</u>	PSI

Recovery: 150' Mud

316/624-7340

DEAN'S TESTERS

Box 1182, Liberal, Ks.

Company Banks Oil Co. Date March 11, 1977
 Well Name & No. Bartel #1 Sec. 7 Twp. 32S Rge. 27W
 County Meade State Kans Elevation _____
 Test Approved by Lee Banks Tester Dean Blagrove

DST No. 2 Formation K.C. Test Interval 4927 to 4950 Total Depth 4950
 Anchor Length 23 Anchor Size 4 1/2" OD Surface Choke 1/4" Bot. Choke 5/8"
 Top Packer Depth 4922 Damaged no Bottom Packer Depth 4927 Damaged no
 Below Straddle Depth _____ Damaged _____ Bot. Packer Depth _____ Damaged _____
 Recorders: Depth 4943 Make Kuster Capacity 6450 Ser. No. 6064 Inside
 Depth 4948 Make H&T Capacity 4750 Ser. No. 72 Outside
 Below Straddle: Depth _____ Make _____ Capacity _____ Ser. No. _____

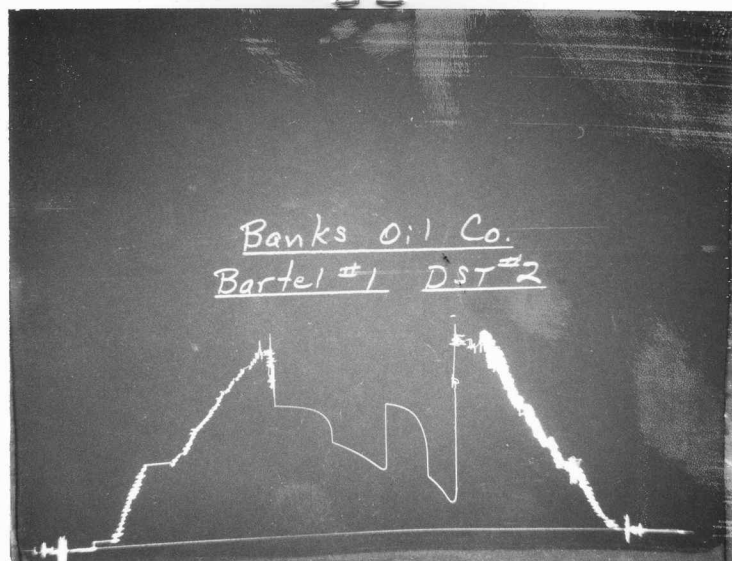
PRESSURES:

Tool Open 30 min. IFP 354 psi to 691 psi
 Shut-In 45 min. ISIP 1651 psi
 Open 60 min. FFP 806 psi to 1182 psi
 Shut-In 60 min. FSIP 1671 psi
 Hydrostatic Pressures: Initial 2384 Final 2368 Temp 117 °F
 Blow Good thruout. GTS during ISIP Too small to measure.
 Recovery 2450' Salt water Rw- .06 @ 62 F

Extra Equipment 2 Packers, Jars, Sfty.jnt., Circ.sub.

Lengths: Tool 53 DP 4175 ID 3.8 Wt.P 220 ID 2.7 DC 527 ID 2.25
 Mud Type Starch Vis. 40 Wt. 9.0 Wtr. Loss 8.4 Chlorides 15,000 PPM

Remarks: Reverse circulated water @ 2100'.



Actual photograph of test chart

Pressure Reading

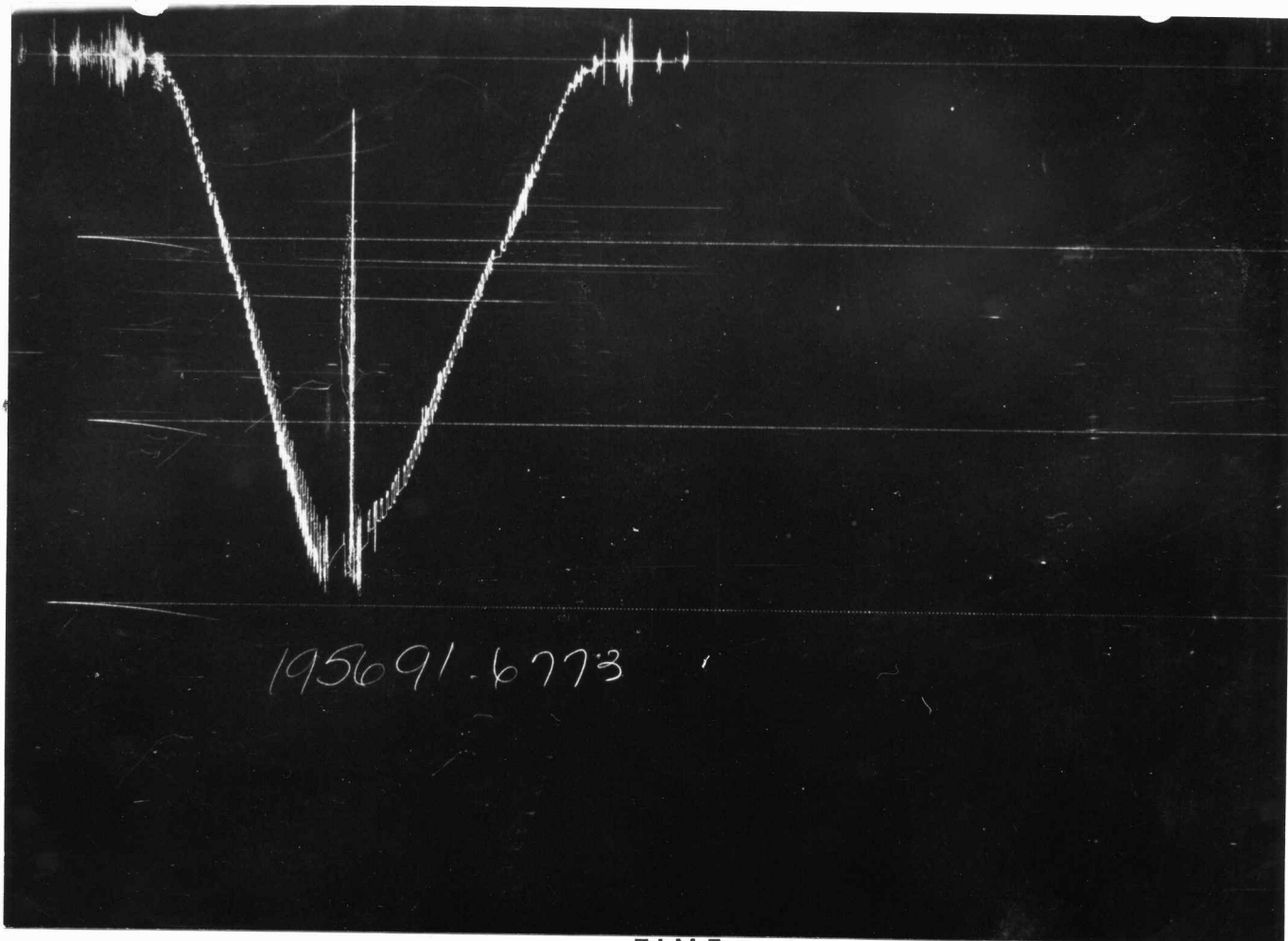
Initial Flow pressure	354 to 691	PSI
Initial Closed in pressure	1651	PSI
Final Flow pressure	806 to 1182	PSI
Final Closed in pressure	1671	PSI
Initial Hydrostatic pressure	2384	PSI
Final Hydrostatic pressure	2368	PSI

Recovery: 2450' Salt water Rw = .06 @ 62 F

KANSAS

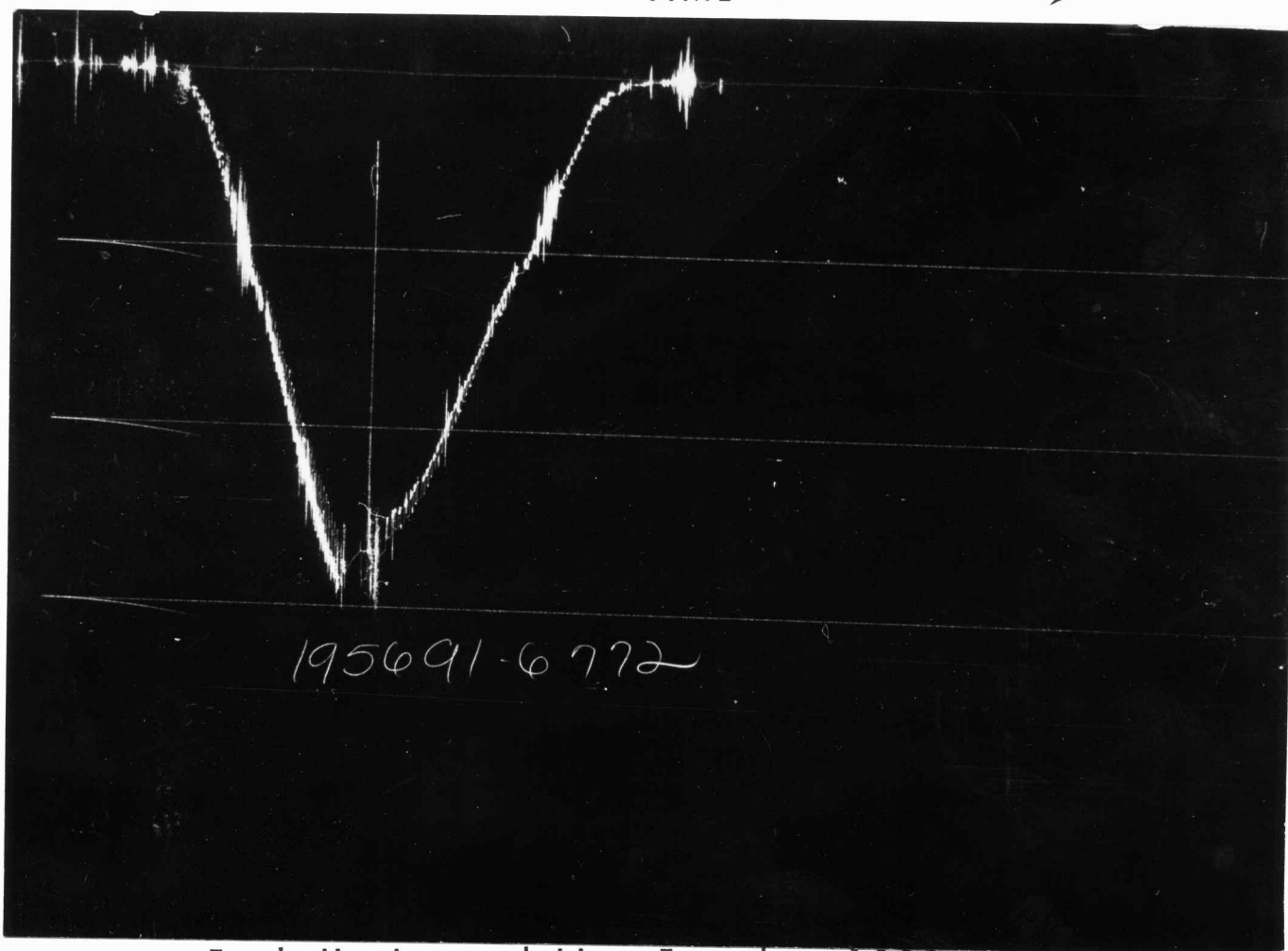
[illegible]

	O. D.	I. D.	LENGTH	DEPTH
Drill Pipe or Tubing	6"	2.50"	1'	
Reversing Sub				
Water Cushion Valve				
Drill Pipe	4 $\frac{1}{2}$ "	3.826"	5141'	
Drill Collars	6"	2.25"	294'	
Handling Sub & Choke Assembly	4 $\frac{1}{2}$ "	3"	4'	
Dual CIP Valve	5"	.85"	5'	5435'
Dual CIP Sampler				
Hydro-Spring Tester	5"	.75"	5'	5440'
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	3.06"	4'	5441'
Hydraulic Jar	5"	1.75"	5'	
VR Safety Joint	5"	1"	3'	
Pressure Equalizing Crossover	5"	1"	1'	
Packer Assembly	6 3/4"	1.53"	6'	5459'
Distributor				
Packer Assembly	6 3/4"	1.53"	6'	5465'
Flush Joint Anchor	5"	2.37"	16'	
Pressure Equalizing Tube	1"	.75"	29'	
Blank anchor & Equalizing subs	5"	2.32"	7'	
Blanked-Off B.T. Running Case	5"	3.06"	4'	
Drill Collars				
Anchor Pipe Safety Joint				
Packer Assembly	6 3/4"	1.53"	6'	5495'
Distributor				
Packer Assembly				
Anchor Pipe Safety Joint				
X over subs	6"	2.25"	2'	
Side Wall Anchor				
Drill Collars	6"	2.25"	240.32'	
X over subs	6"	2.25"	1.80'	
Flush Joint Anchor	5"	2.33"	3'	
Blanked-Off B.T. Running Case	5"	2.44"	4'	5746'
Total Depth				5750'



↓ PRESSURE

TIME →



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

FLUID SAMPLE DATA				Date		Ticket Number	
Sampler Pressure _____ P.S.I.G. at Surface				3-17-77		195692	
Recovery: Cu. Ft. Gas _____				Kind of Job		Halliburton District	
cc. Oil _____				STRADDLE		LIBERAL	
cc. Water _____				MR. MC GEHEE		Witness MR. LEE BANKS	
cc. Mud _____				Tester			
Tot. Liquid cc. _____				Drilling Contractor		RINE DRILLING COMPANY SM	
Gravity _____ ° API @ _____ ° F.				EQUIPMENT & HOLE DATA			
Gas/Oil Ratio _____ cu. ft./bbl.				Formation Tested			
RESISTIVITY _____ CHLORIDE CONTENT _____				Morrow sand			
Recovery Water @ _____ ° F. _____ ppm				Elevation _____ Ft.			
Recovery Mud @ _____ ° F. _____ ppm				Net Productive Interval 6' _____ Ft.			
Recovery Mud Filtrate @ _____ ° F. _____ ppm				All Depths Measured From Kelly bushing			
Mud Pit Sample @ _____ ° F. _____ ppm				Total Depth 5750' _____ Ft.			
Mud Pit Sample Filtrate @ _____ ° F. _____ ppm				Main Hole/Casing Size 7 7/8"			
Mud Weight 9.2 vis 51 sec				Drill Collar Length 266' I.D. 2.25"			
				Drill Pipe Length 5125' I.D. 3.826"			
				Packer Depth(s) 5413-5419-5506' _____ Ft.			
				Depth Tester Valve 5396' _____ Ft.			
Cushion		TYPE	AMOUNT	Depth Back Pres. Valve	Surface Choke	Bottom Choke	
Recovered 15			Feet of drilling mud		1/4"	3/4"	
Recovered			Feet of				
Recovered			Feet of				
Recovered			Feet of				
Recovered			Feet of				
Remarks SEE PRODUCTION TEST DATA SHEET							
TEMPERATURE		Gauge No. 6773		Gauge No. 6772		Gauge No.	
Depth: 5397 Ft.		Depth: 5501 Ft.		Depth: _____ Ft.		TIME	
Est. 130 ° F.		12 Hour Clock		12 Hour Clock		Tool A.M.	
Blanked Off no		Blanked Off yes		Blanked Off		Opened 1855 P.M.	
Actual ° F.		Pressures		Pressures		Opened A.M.	
		Pressures		Pressures		Bypass 2140 P.M.	
	Field	Office	Field	Office	Field	Office	Reported Minutes
Initial Hydrostatic	2665	2654					Computed Minutes
First Period Flow	Initial	14	19				
	Final	14	27	Stylus not engaged			30
	Closed in	43	46				45
Second Period Flow	Initial	14	33				
	Final	14	33	No readings			30
	Closed in	14	39				60
Third Period Flow	Initial			available.			
	Final						
	Closed in						
Final Hydrostatic	2637	2523					

Legal Location
Sec. - Twp. - Rng.

7-23-27

Field Area
Meo. From Tester Valve

County

MEADE

State

KANSAS

BARTEL

Lease Name

Well No.

Test No.

5419 - 5506'

Tested Interval

BANKS OIL COMPANY
Lease Owner/Company Name

195692

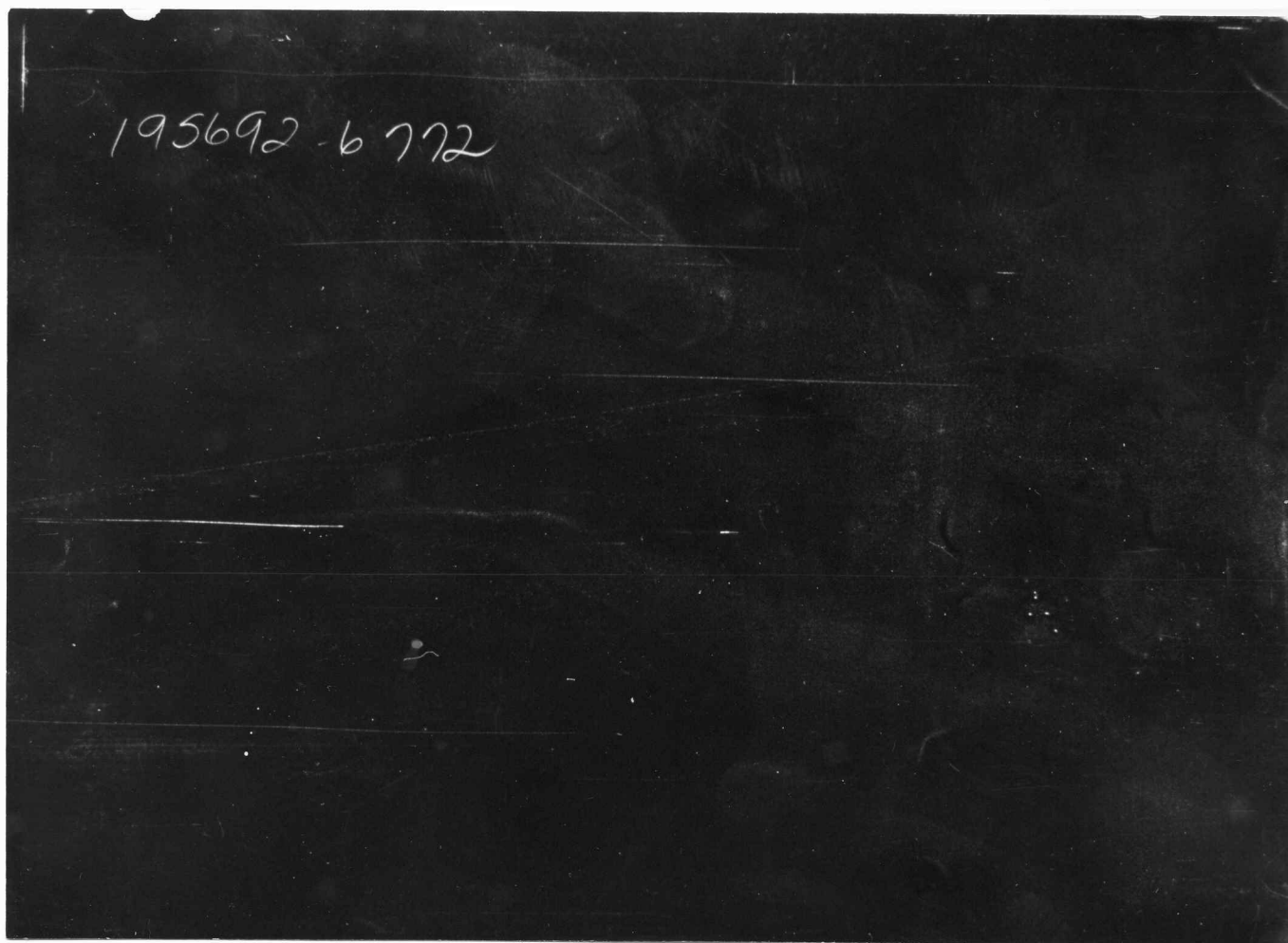
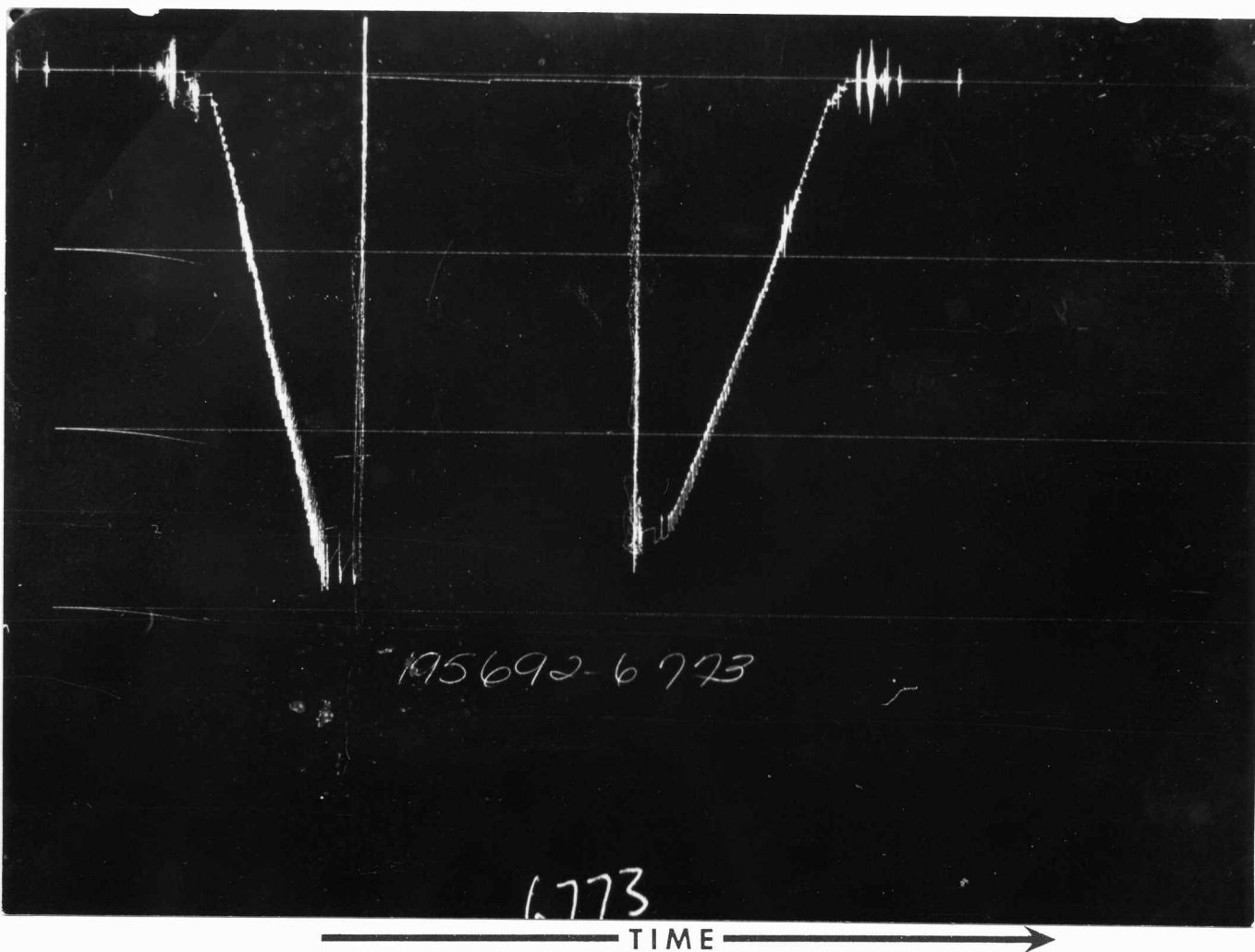
INDICATE TYPE AND SIZE OF GAS MEASURING DEVICE USED

[illegible]



	O. D.	I. D.	LENGTH	DEPTH
Drill Pipe or Tubing	6"	2.50"	1'	
Reversing Sub				
Water Cushion Valve				
Drill Pipe	4 1/2"	3.826"	5125'	
Drill Collars	6"	2.25"	266'	
Handling Sub & Choke Assembly	4 1/2"	3"	4'	
Dual CIP Valve	5"	.85"	5'	5391'
Dual CIP Sampler				
Hydro-Spring Tester	5"	.75"	5'	5396'
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	3.06"	4'	5397'
Hydraulic Jar	5"	1.75"	5'	
VR Safety Joint	5"	1"	3'	
Pressure Equalizing Crossover	5"	1"	1'	
Packer Assembly	6 3/4"	1.53"	6'	5413'
Distributor				
Packer Assembly	6 3/4"	1.53"	6'	5419'
Flush Joint Anchor	5"	2.37"	18'	
Pressure Equalizing Tube	1"	.75"	31'	
Blanked-Off B.T. Running Case	5"	3.06"	4'	5501'
Drill Collars	6"	2.25"	58.18'	
Anchor Pipe Safety Joint X overs & equalizing subs			4'	
Packer Assembly	6 3/4"	1.53"	6'	5506'
Distributor				
Packer Assembly				
Anchor Pipe Safety Joint				
Side Wall Anchor				
Drill Collars	6"	2.25"	210.18'	
Flush Joint Anchor	5"	2.37"	36'	
Blanked-Off B.T. Running Case				
Total Depth				5750'

↓ PRESSURE



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