

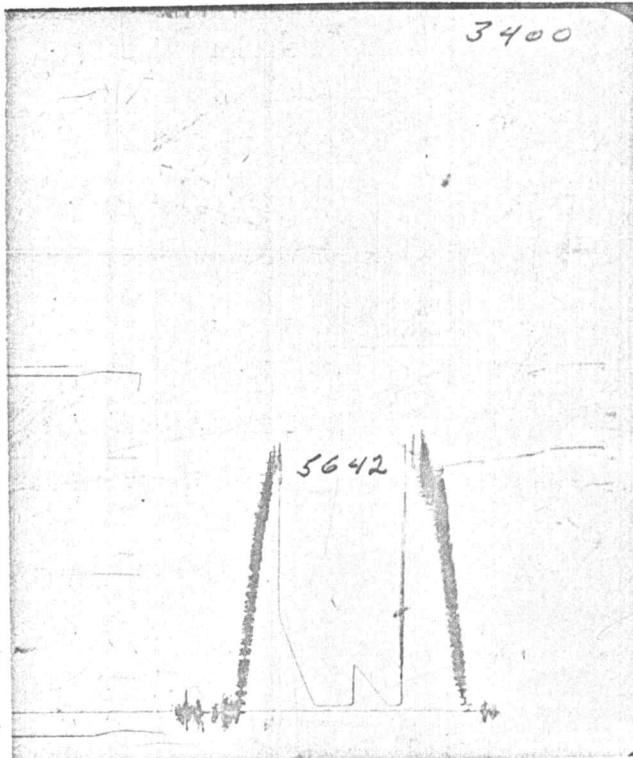
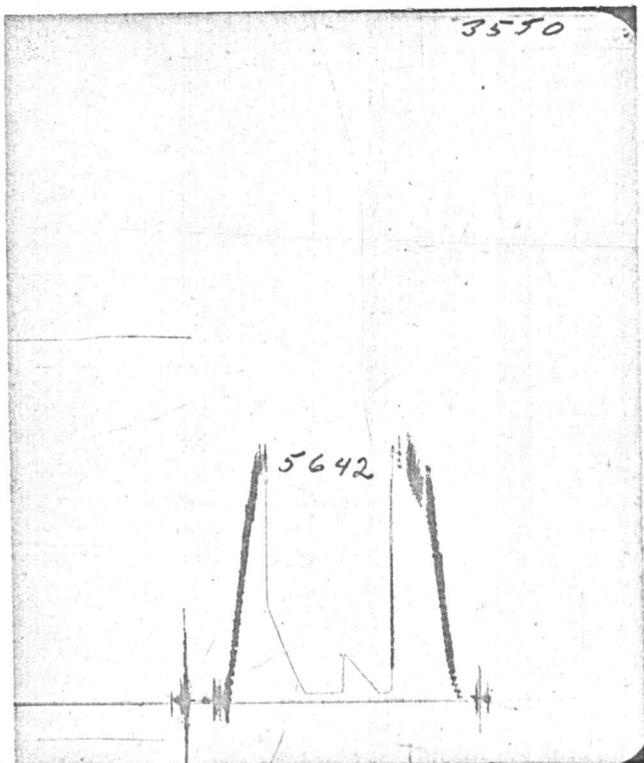


OIL WELL CEMENTING INC.

Date 12-21-67

DRILL STEM TEST RECOVERY REPORT

Ticket No. 5642



Top Recorder

Bottom Recorder

Company Bowers Drlg Co. Contractor Co-Tools

Well No. 1 Lease Shriver County Pratt Sec. 35 Rg. 29 Twp. 14

Test No. 1 Size Hole 7 7/8 Packer Size 6 3/4 Drill Pipe Size 4 1/2 FH

Interval Tested From 2157 To 2170 Depth of Well 2170 Size Choke 5/8

Fluid Recovered In Flexweight Temp. Elev. 1969 KB

Initial Hyd. 1265 P.S.I. Final Hyd. 1265 P.S.I.

First Initial Flow Pressure 25 P.S.I. Opened Tool 8:30 P.M.

First Final Flow Pressure 25 P.S.I. First Flow Pres. 10 Min.

Initial Closed-in Pressure 207 P.S.I. Initial Closed-in Pres. 30 Min.

Second Initial Flow Pressure 25 P.S.I. Second Flow Pres. 30 Min.

Second Final Flow Pressure 21 P.S.I. Final Closed-in Pres. 30 Min.

Final Closed-in Pressure 429 P.S.I.

Blow Fair Blow thru-out test

Recovery 150' Gas in pipe 30# Drlg mud

Remarks

Approved By McCann Tester Williams

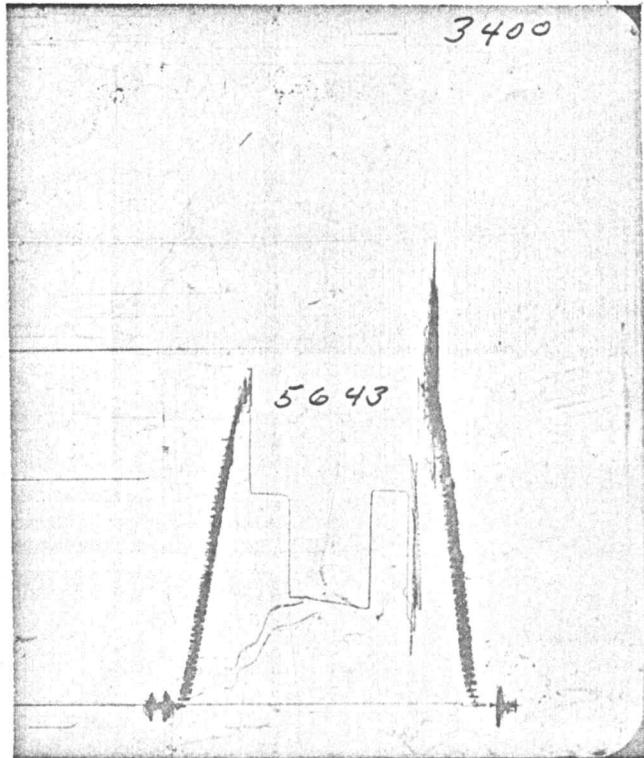
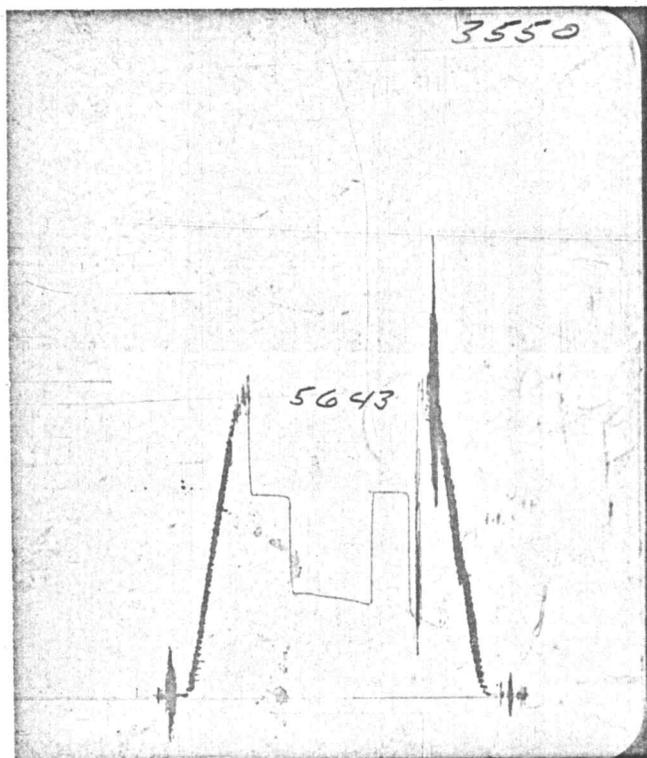


OIL WELL CEMENTING INC.

Date 12-23-67

DRILL STEM TEST RECOVERY REPORT

Ticket No. 5643



Top Recorder

Bottom Recorder

Company Bowers Drlg Co. Contractor Co-tools
 Well No. 1 Lease Shriver County Pratt Sec. 35 Rg. 29 Twp. 14
 Test No. 2 Size Hole 7 7/8 Packer Size 6 3/4 Drill Pipe Size 4 1/2 FH
 Interval Tested From 2726 To 2740 Depth of Well 2740 Size Choke 5/8
 Fluid Recovered In Flex weight Temp. _____ Elev. 1969 Kb
 Initial Hyd. 1523 P.S.I. Final Hyd. 1523 P.S.I.
 First Initial Flow Pressure ### 437 P.S.I. Opened Tool 9:45 ~~###~~ P.M.
 First Final Flow Pressure 442 P.S.I. First Flow Pres. 5 Min.
 Initial Closed-in Pressure 986 P.S.I. Initial Closed-in Pres. 30 Min.
 Second Initial Flow Pressure 442 P.S.I. Second Flow Pres. 60 Min.
 Second Final Flow Pressure 491 P.S.I. Final Closed-in Pres. 30 Min.
 Final Closed-in Pressure 976 P.S.I.
 Blow Strong thruout test.

Recovery Gas to surface 1 min. Gauged on preflow 2,130,000 in 5 min.
 Gauged on finial flow 2,630,000 in 10 min. 2,740,000 in 20 min.
 2,880,000 in 30 min. stable remainder of test Spray of mud after 40 min.

Remarks Recovered 10 Watery mud

Approved By McCann

Tester Williams

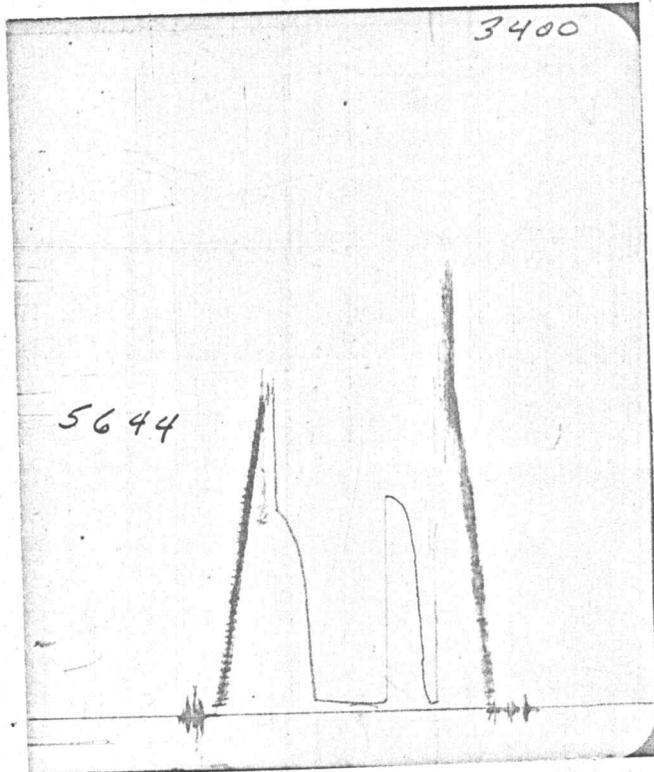
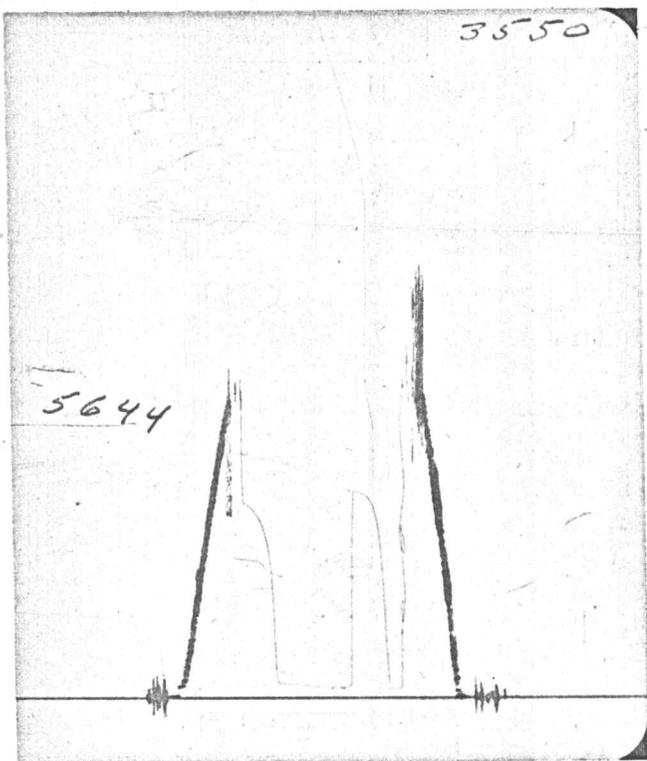


OIL WELL CEMENTING INC.

Date 12-26-67

DRILL STEM TEST RECOVERY REPORT

Ticket No. 5644



Top Recorder

Bottom Recorder

Company Bowers Drlg Co. Contractor Co-Tools

Well No. 1 Lease Shriver County Pratt Sec. 35 Rg. 29 Twp. 14

Test No. 3 Size Hole 7 7/8 Packer Size 6 3/4 Drill Pipe Size 4 1/2 FH

Interval Tested From 2780 To 2810 Depth of Well 2810 Size Choke 5/8

Fluid Recovered In Drill collars Temp. 82 Elev. 1969 KB

Initial Hyd. 1540 P.S.I. Final Hyd. 1540 P.S.I.

First Initial Flow Pressure 35 P.S.I. Opened Tool 10:27 P.M.

First Final Flow Pressure 35 P.S.I. First Flow Pres. 10 Min.

Initial Closed-in Pressure 1005 P.S.I. Initial Closed-in Pres. 30 Min.

Second Initial Flow Pressure 35 P.S.I. Second Flow Pres. 60 Min.

Second Final Flow Pressure 56 P.S.I. Final Closed-in Pres. 30 Min.

Final Closed-in Pressure 953 P.S.I.

Blow Strong thruout test

Recovery Gas to surface 10 min after I.B.H.P. to small to measure

80' Gas cut drlg mud

Remarks

Approved By McCann Tester Williams

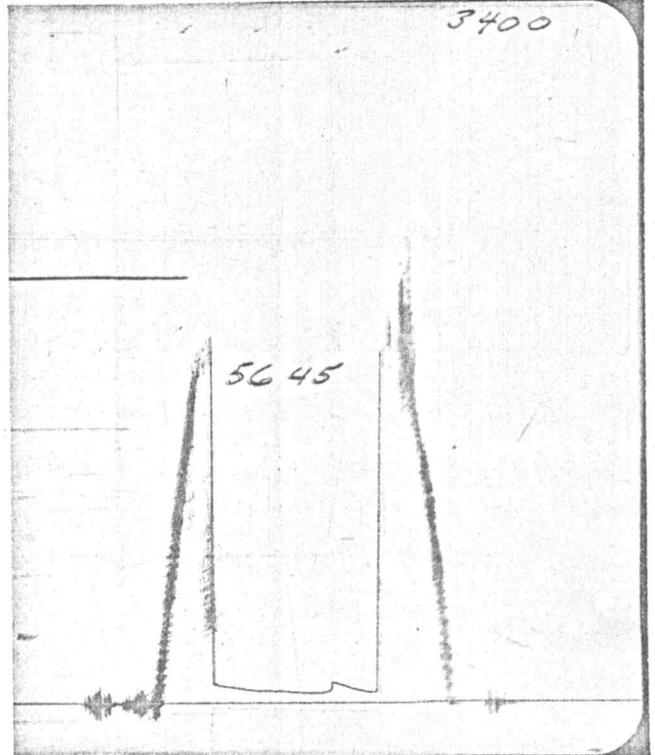
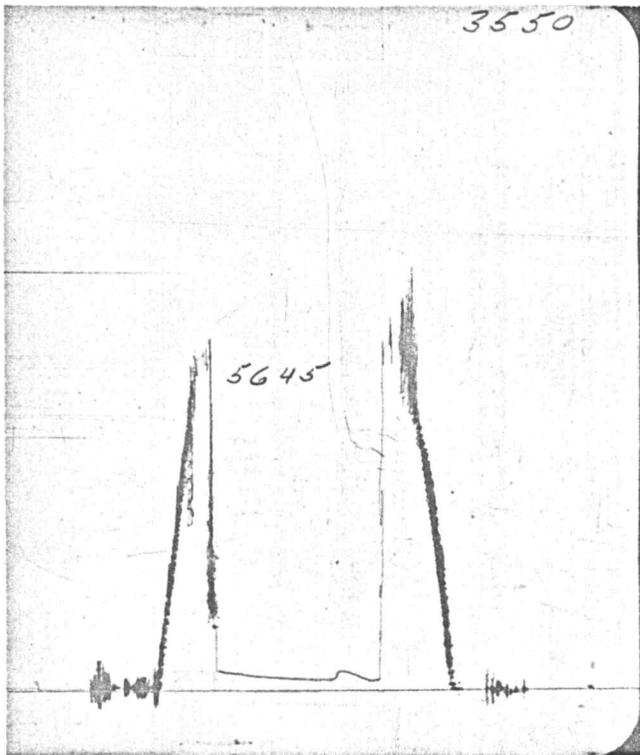


OIL WELL CEMENTING INC.

Date 12-27-67

DRILL STEM TEST RECOVERY REPORT

Ticket No. 5645



Top Recorder

Bottom Recorder

Company Bowers Drlg Co. Contractor Co-Tools
 Well No. 1 Lease Shriver County Pratt Sec. 35 Rg. 29 Twp. 14
 Test No. 4 Size Hole 7 7/8 Packer Size 6 3/4 Drill Pipe Size 4 1/2 FH
 Interval Tested From 2980 To 3005 Depth of Well 3005 Size Choke 5/8
 Fluid Recovered In Drill Collars Temp. 82 Elev. 1969 KB
 Initial Hyd. 1683 P.S.I. Final Hyd. 1683 P.S.I.
 First Initial Flow Pressure 62 P.S.I. Opened Tool 2:15 ~~###~~ P.M.
 First Final Flow Pressure 62 P.S.I. First Flow Pres. 10 Min.
 Initial Closed-in Pressure 97 P.S.I. Initial Closed-in Pres. 30 Min.
 Second Initial Flow Pressure 62 P.S.I. Second Flow Pres. 60 Min.
 Second Final Flow Pressure 62 P.S.I. Final Closed-in Pres. 30 Min.
 Final Closed-in Pressure 88 P.S.I.

Blow Fair blow decreasing to weak at end of test

Recovery 300' Gas in pipe 60' Gas cut drlg mud

Remarks _____

Approved By McCamm Tester Williams

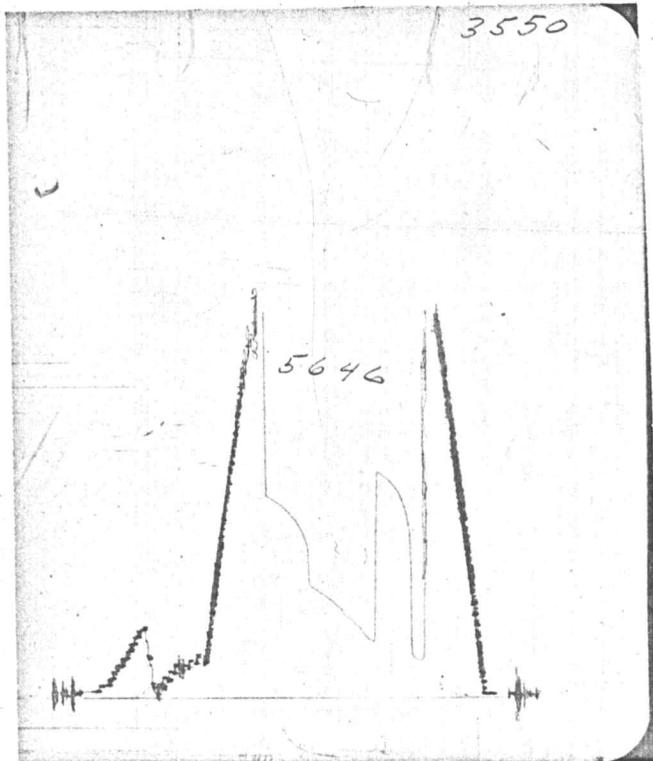


OIL WELL CEMENTING INC.

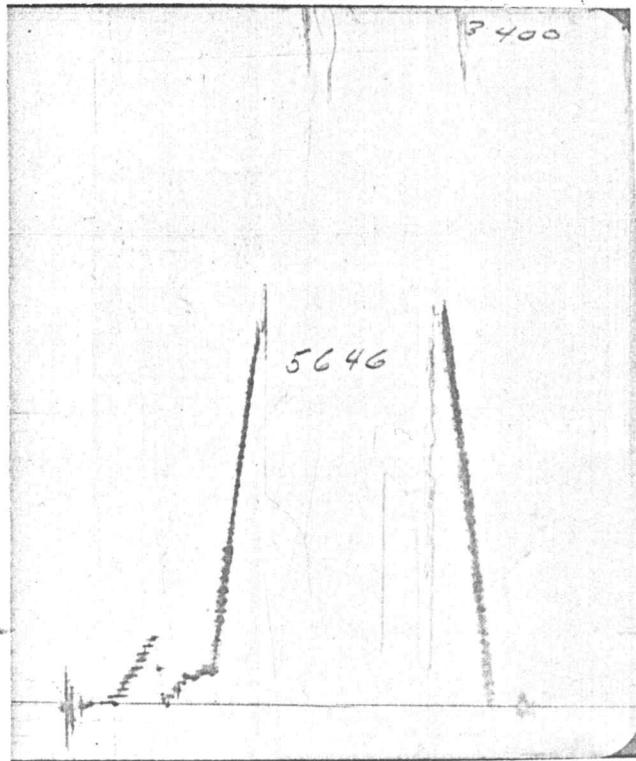
Date 12-28-67

DRILL STEM TEST RECOVERY REPORT

Ticket No. 5646



Top Recorder



Bottom Recorder

Company Bowers Drlg Co. Contractor Co-Tools

Well No. 1 Lease Shriver County Pratt Sec. 35 Rg. 29 Twp. 14

Test No. 5 Size Hole 7 7/8 Packer Size 6 3/4 Drill Pipe Size 1 1/2 FH

Interval Tested From 3301 To 3320 Depth of Well 3320 Size Choke 5/8

Fluid Recovered In Flexweight Temp. 90 Elev. 1979 KB

Initial Hyd. 1844 P.S.I. Final Hyd. 1844 P.S.I.

First Initial Flow Pressure 248 P.S.I. Opened Tool 6:50 P.M.

First Final Flow Pressure 248 P.S.I. First Flow Pres. 10 Min.

Initial Closed-in Pressure 1093 P.S.I. Initial Closed-in Pres. 30 Min.

Second Initial Flow Pressure 248 P.S.I. Second Flow Pres. 60 Min.

Second Final Flow Pressure 525 P.S.I. Final Closed-in Pres. 30 Min.

Final Closed-in Pressure 971 P.S.I.

Blow Strong blow thruout test

Recovery Gas to surface 1/2 min. gauged on preflow 114,000

After I.B.H.P. T.S.T.M. 10 min. 34,690 in 20 min. 34,690 in 30 min.

T.S.T.M. remainder of test 250'Sl. oil & gas cut muddy water

Remarks 300' Gassy water w/ scum oil 600' Gassy water

Approved By McCann

Tester Williams



CHART ANALYSIS 5642

Pressure Readings in 3 Minute Intervals
Corrected with Micrometer Chart Scanner

TIME IN MIN.	ISIP	FSIP	FP	TIME IN MIN.	FP
3	25	51	25	63	
6	41	90	23	66	
9	68	127	21	69	
12	86	167	21	72	
15	105	207	21	75	
18	128	249	21	78	
21	148	295	21	81	
24	165	337	21	84	
27	189	385	21	87	
30	207	429	21	90	
33				93	
36				96	
39				99	
42				102	
45				105	
48				108	
51				111	
54				114	
57				117	
60				120	



CHART ANALYSIS

Pressure Readings in 3 Minute Intervals ⁵⁶⁴³
 Corrected with Micrometer Chart Scanner

TIME IN MIN.	ISIP	FSIP	FP	TIME IN MIN.	FP
3	976	726	437	63	491
6	986	964	432	66	491
9	986	969	442	69	
12	986	974	447	72	
15	986	976	451	75	
18	986	976	455	78	
21	986	976	458	81	
24	986	976	463	84	
27	986	976	466	87	
30	986	976	469	90	
33			471	93	
36			473	96	
39			476	99	
42			481	102	
45			484	105	
48			489	108	
51			491	111	
54			491	114	
57			491	117	
60			491	120	



CHART ANALYSIS 5644
 Pressure Readings in 3 Minute Intervals
 Corrected with Micrometer Chart Scanner

TIME IN MIN.	ISIP	FSIP	FP	TIME IN MIN.	FP
3	197	390	35	63	56
6	540	674	35	66	
9	769	781	35	69	
12	889	842	35	72	
15	944	882	36	75	
18	973	907	38	78	
21	989	924	40	81	
24	998	939	41	84	
27	1001	953	43	87	
30	1005		45	90	
33			46	93	
36			46	96	
39			50	99	
42			50	102	
45			51	105	
48			53	108	
51			53	111	
54			55	114	
57			55	117	
60			56	120	



CHART ANALYSIS 5646

Pressure Readings in 3 Minute Intervals
Corrected with Micrometer Chart Scanner

TIME IN MIN.	ISIP	FSIP	FP	TIME IN MIN.	FP
3	758	778	248	63	
6	900	816	251	66	
9	959	848	276	69	
12	993	872	293	72	
15	1022	892	308	75	
18	1044	910	321	78	
21	1062	926	335	81	
24	1074	939	350	84	
27	1086	951	363	87	
30	1093	961	382	90	
33		971	399	93	
36			416	96	
39			431	99	
42			446	102	
45			459	105	
48			469	108	
51			483	111	
54			496	114	
57			508	117	
60			525	120	