15-187-20377

14-30-41W

PHONE
316 / 624-7340

DEAN'S TESTERS INC.

P. O. BOX 1182
LIBERAL, KS. 67901

Formation Keyes Sand Type Test Bottom Hole Misrun Date December 3, 1984

Anchor Length and Size 29' x 4½" Total Depth 5377'

Packer Depths Below Straddle

Equipment Run 2 Packers, Jars, Safety Joint, Circulating sub

Lengths: Tool 61' D. P. 4681' ID 3.8" Wt. P. ID D. C. 652' ID 2.25"

Mud Type Chemical Vis. 56 Wt. 9.3 Wtr. Loss 6.8 Cl. 1100 ppm

Recorders:

Depth Make Cap. Ser. No. Inside

Depth Make Cap. Ser. No. Outside

Depth Make Cap. Ser. No. Below Straddle

Pressures:

Tool on Bottom @ M. Initial Hydrostatic psi

Initial Flow Min. IFP psi to psi

Initial Shut-in Min. ISIP psi

Final Flow Min. FFP psi to psi

Final Shut-in Min. FSIP psi

Tool off Bottom @ M. Final Hydrostatic psi Temp.

Blow:

Recovery:

Gas Flow:

Sampler Data:

Pressure PSI

Gas cu. ft.

Total Fluid cc

Oil cc

Water cc

Mud cc

Oil Gravity @ °F.

Gas/Oil Ratio

Remarks:

Packer failure; bridges at 3950'; 4150'; 4350'; & 5125'. Slid tool 10'.

Tester R L Young Witnessed by: J Crawford

T-10 Liberal Office Machines

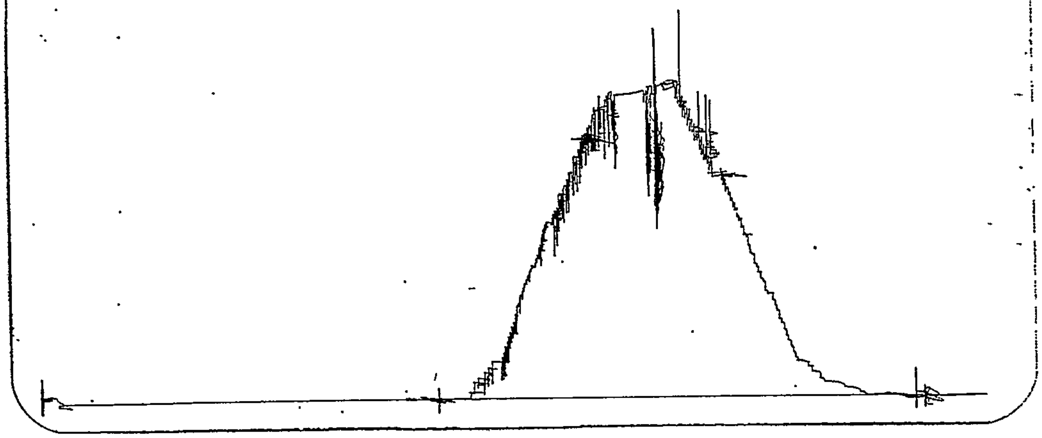
SEC. 14 TWP. 30S RGE. 41W COUNTY Stanton STATE Kansas TICKET NO. 2523

OPERATOR Berexco Inc.

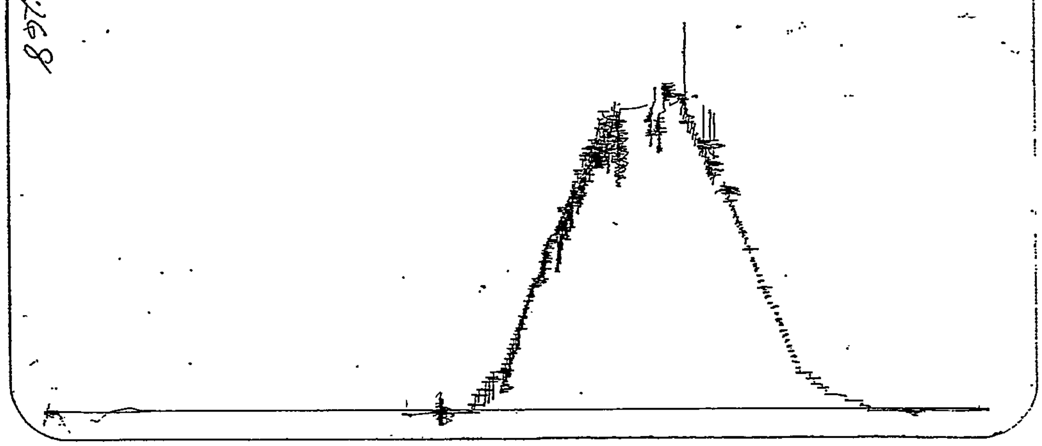
WELL NAME & NO. Naomi #1

TEST # 1

TEST INTERVAL 5348' - 5377'



10:268



PHONE
316 / 624-7340

DEAN'S TESTERS INC.

P. O. BOX 1182
LIBERAL, Kansas 67901

Formation Keyes Sand Type Test Bottom Hole Date December 5, 1984

Anchor Length and Size 88' 62'x6¼" & 26'x4½" Total Depth 5402'

Packer Depths 5309' & 5314' Below Straddle

Equipment Run 2 Packers, Jars, Safety Joint, Circulating sub

Lengths: Tool 120' D. P. 4708' ID 3.8" Wt. P. ID D. C. 590' ID 2.25"

Mud Type Chemical Vis. 83 Wt. 9.4 Wtr. Loss 4.4 Cl. 700 ppm

Recorders:

Depth 5330' Make Kuster Cap. 6500 Ser. No. 10269 Inside

Depth 5336' Make Kuster Cap. 6450 Ser. No. 10268 Outside

Depth Make Cap. Ser. No. Below Straddle

Pressures:

Tool on Bottom @ 11:40 P M. Initial Hydrostatic 2652 psi

Initial Flow 29 Min. IFP 924 psi to 973 psi

Initial Shut-in 60 Min. ISIP 1310 psi

Final Flow 30 Min. FFP 944 psi to 980 psi

Final Shut-in 123 Min. FSIP 1310 psi

Tool off Bottom @ 3:40 A M. Final Hydrostatic 2538 psi Temp. 127

Blow: Strong. Gas to surface in 3 minutes.

Recovery:

90' Oil
90' Mud Cut Oil
270' Oil Cut Mud

Gas Flow: Gauged at 4946 MCF/D through a 1 1/2" orifice at end of flow period.

Sampler Data:

Pressure PSI

Gas cu. ft.

Total Fluid cc

Oil cc

Water cc

Mud cc

Oil Gravity @ °F.

Gas/Oil Ratio

Remarks:

Surface oil 30 minutes into Final Flow; pulled packers loose, pulled 6 stands, wait on daylight.

Tester R L Young Witnessed by: J Crawford

DT-10 Liberal Office Machines

SEC. 14 TWP. 30S RGE. 41W COUNTY Stanton STATE Kansas TICKET NO. 2524

OPERATOR Berexco Inc.

WELL NAME & NO. Naomi #1

TEST # 2

TEST INTERVAL 5314' - 5402'

PHONE
316 / 824-7340

DEAN'S TESTERS INC.

P. O. BOX 1182
LIBERAL, Kansas 67901

Formation Keyes Sand Type Test Bottom Hole Date December 5, 1984

Anchor Length and Size 88' 62'x6¼" & 26'x4½" Total Depth 5402'

Packer Depths 5309' & 5314' Below Straddle

Equipment Run 2 Packers, Jars, Safety Joint, Circulating sub

Lengths: Tool 120' D. P. 4708' ID 3.8" Wt. P. ID D. C. 590' ID 2.25"

Mud Type Chemical Vis. 83 Wt. 9.4 Wtr. Loss 4.4 Cl. 700 ppm

Recorders:

Depth 5330' Make Kuster Cap. 6500 Ser. No. 10269 Inside

Depth 5336' Make Kuster Cap. 6450 Ser. No. 10268 Outside

Depth Make Cap. Ser. No. Below Straddle

Pressures:

Tool on Bottom @	11:40 P M.	Initial Hydrostatic	2652 psi		
Initial Flow	29 Min.	IFP	924 psi to	973 psi	
Initial Shut-in	60 Min.	ISIP	1310 psi		
Final Flow	30 Min.	FFP	944 psi to	980 psi	
Final Shut-in	123 Min.	FSIP	1310 psi		
Tool off Bottom @	3:40 A M.	Final Hydrostatic	2538 psi	Temp.	127

Blow: Strong. Gas to surface in 3 minutes.

Recovery:

90' Oil
90' Mud Cut Oil
270' Oil Cut Mud

Gas Flow: Gauged at 4946 MCF/D through a 1 1/2" orifice at end of flow period.

Sampler Data:

Pressure PSI
Gas cu. ft.
Total Fluid cc
Oil cc
Water cc
Mud cc
Oil Gravity @ °F.
Gas/Oil Ratio

Remarks:

Surface oil 30 minutes into Final Flow; pulled packers loose, pulled 6 stands, wait on daylight.

Tester R L Young Witnessed by: J Crawford

DT-10 Liberal Office Machines

SEC. 14 TWP. 30S RGE. 41W COUNTY Stanton STATE Kansas TICKET NO. 2524

OPERATOR Berexco Inc.

WELL NAME & NO. Naomi #1

TEST # 2

TEST INTERVAL 5314 - 5402

Pressure Break Down

Test ticket no. 2524 Recorder no. 10269 Capacity 6500 Rec. Depth. 5330'

			Time	Given	Computed
Initial Flow pressure	924	to 973		30	29
Initial Closed in pressure	1310			60	60
Final Flow pressure	944	to 980		30	30
Final Closed-in pressure	1310			120	123

Initial Hydrostatic pressure 2652 Final Hydrostatic press. 2538 Temp 127

Initial Flow Press.

Minutes	Press
0	924
5	924
10	927
15	944
20	950
25	963
29 ~~30~~	973
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	973
3	1271
6	1287
9	1294
12	1297
15	1300
18	1303
21	1307
24	1307
27	1307
30	1310
33	1310
36	1310
39	1310
42	1307
45	1307
48	1307
51	1310
54	1310
57	1310
60	1310
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	944
5	944
10	967
15	980
20	983
25	980
30	980
35	
40	
45	
50	
55	
60	
65	
70	
75	
80	
85	
90	
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	980
3	1271
6	1284
9	1294
12	1297
15	1300
18	1300
21	1300
24	1300
27	1300
30	1300
33	1303
36	1303
39	1303
42	1303
45	1303
48	1303
51	1303
54	1303
57	1303
60	1307
63	1307
66	1307
69	1307
72	1307
75	1307
78	1307
81	1307
84	1307
87	1307
90	1310
93	1310
96	1310
99	1310
102	1310
105	1310
108	1310
111	1310
114	1310
117	1310
120	1310
123	1310

Ph. 31[illegible]24-7340 Mobile — 316/[illegible]-6247
Unit #935

DEAN'S TESTERS

P.O. Box 1182 Liberal, Kansas 67901

Company Berexco Inc. **Well** Naomi #1

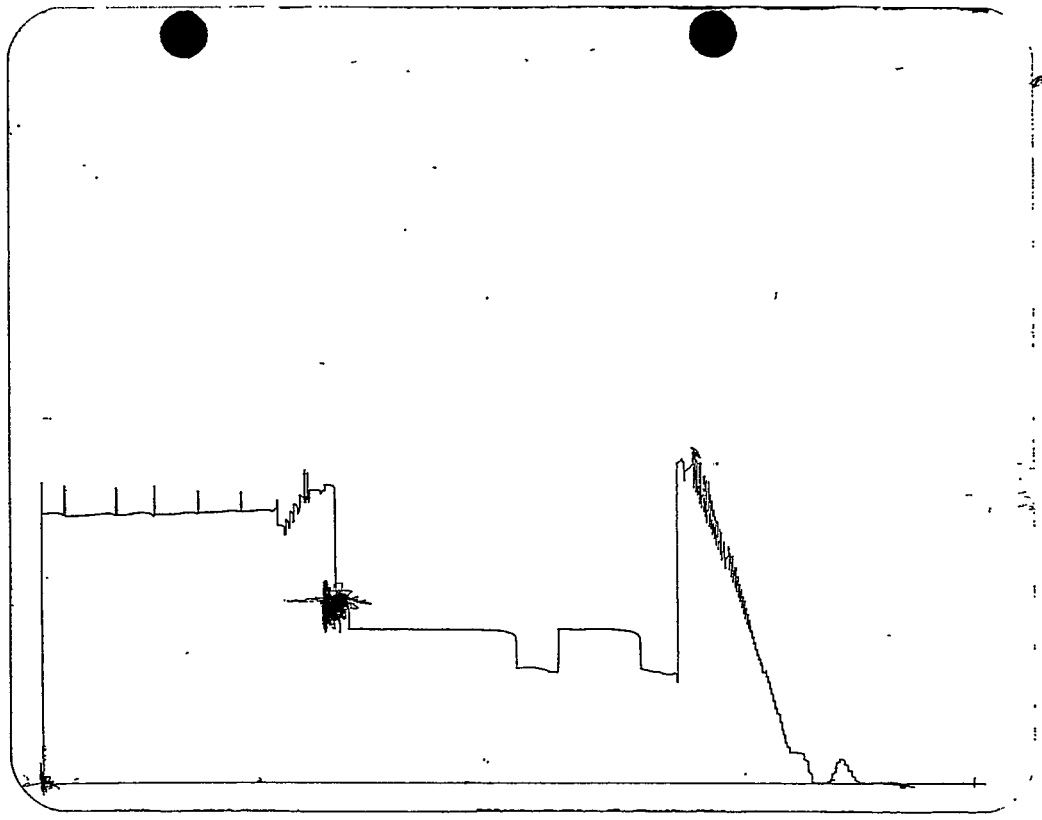
Test # 2 **Interval** 5314' - 5402'

Method of Guage Merla 2'' Quick-Change Orifice Well Tester

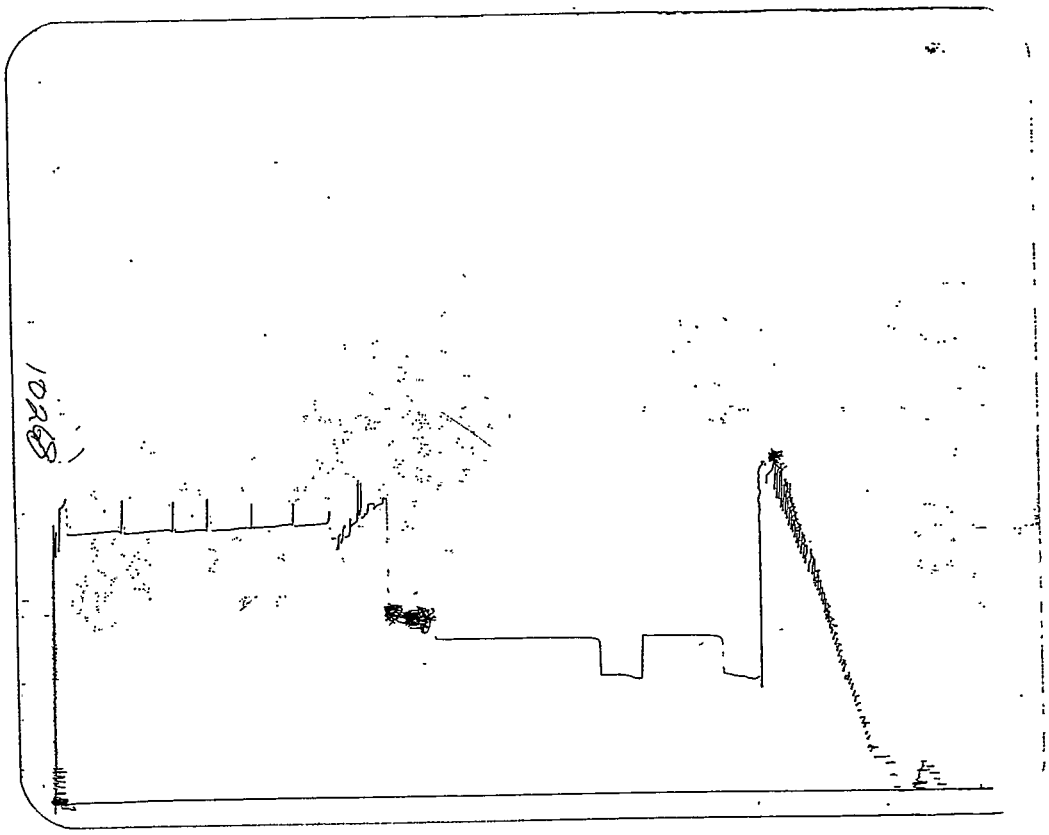
Time	Guage	Orifice Size	Gas Volume MCF/D
Preflow			
10 Minutes	58 P.S.I.	1 1/4"	2630
20 Minutes	74 P.S.I.	1 1/4"	3207
30 Minutes	90 P.S.I.	1 1/4"	3786
Final Flow			
10 Minutes	58 P.S.I.	1 1/2"	4230
20 Minutes	64 P.S.I.	1 1/2"	4588
30 Minutes	70 P.S.I.	1 1/2"	4946

Surface Choke 1" **Bottom Choke** 5/8"

Remarks: Gas to surface in 3 minutes; surfaced oil in 30.



Initial Hydrostatic	2652			psi
IFP	924	psi to	973	psi
ISIP	1310			psi
FFP	944	psi to	980	psi
FSIP	1310			psi
Final Hydrostatic	2538			psi



PHONE
116 / 624-7340

DEAN'S TESTERS INC.

P. O. BOX 1183
LIBERAL, Ks. 67901

Formation Keyes Sand Type Test Bottom Hole Date December 6, 1984

Anchor Length and Size 15' x 4½" Total Depth 5419'

Packer Depths 5399' & 5404' Below Straddle

Equipment Run 2 Packers, Jars, Safety Joint, Circulating sub

Lengths: Tool 50' D. P. 4737' ID 3.8" Wt. P. ID D. C. 652' ID 2.25"

Mud Type Chemical Vis. 102 Wt. 9.4 Wtr. Loss 6 Cl. 800 ppm

Recorders:

Depth 5392' Make Kuster Cap. 6500 Ser. No. 10269 Inside

Depth 5417' Make Kuster Cap. 6450 Ser. No. 10268 Outside

Depth Make Cap. Ser. No. Below Straddle

Pressures:

Tool on Bottom @ 8:35 A M. Initial Hydrostatic 2724 psi

Initial Flow 31 Min. IFP 157 psi to 419 psi

Initial Shut-in 59 Min. ISIP 1313 psi

Final Flow 84 Min. FFP 544 psi to 986 psi

Final Shut-in 174 Min. FSIP 1323 psi

Tool off Bottom @ 2:20 P M. Final Hydrostatic 2633 psi Temp. 128

Blow: Weak increasing to Strong. Gas to surface 8 minutes into Initial Flow. Strong on Final Flow.

Recovery:

3920' Gas Cut Oil Gr 44° @ 60° F
270' Mud & Gas Cut Oil
90' Oil & Gas Cut Mud

Unloaded oil & gas during Final Shut In.
Bottom sample settled out 15% Water
11,500 PPM CL

Gas Flow:

Sampler Data:

Pressure PSI

Gas cu. ft.

Total Fluid cc

Oil cc

Water cc

Mud cc

Oil Gravity @ °F.

Gas/Oil Ratio

Remarks:

Flowed oil 76 minutes into Final Flow Period.

Tester R L Young Witnessed by: J Crawford

DT-10 Liberal Office Machines

SEC. 14 TWP. 30S RGE. 41W

Berexco Inc. OPERATOR

Naomi #1 WELL NAME & NO.

COUNTY Stanton STATE Kansas

3 TEST #

TICKET NO. 2525

5404' - 5419' TEST INTERVAL

Ph. 31[redacted]24-7340 Mobile — 316/[redacted]-6247
Unit #935

DEAN'S TESTERS

P.O. Box 1182 Liberal, Kansas 67901

Company Berexco Inc. **Well** Naomi #1

Test # 3 **Interval** 5404' - 5419'

Method of Guage Merla 2'' Quick-Change Orifice Well Tester

Time	Guage	Orifice Size	Gas Volume MCF/D
Preflow			
10 Minutes	2 P.S.I.	3/4"	108
20 Minutes	2 P.S.I.	1/2"	47.7
30 Minutes	7 P.S.I.	1/4"	25
Final Flow			
10 Minutes	17 In. Wtr. Col.	1/4"	6.93
20 Minutes	15 In. Wtr. Col.	1/4"	6.55
30 Minutes	16 In. Wtr. Col.	1/4"	6.72
40 Minutes	20 In. Wtr. Col.	1/4"	7.51
50 Minutes	10 In. Wtr. Col.	1/4"	5.32
60 Minutes	13 In. Wtr. Col.	1/4"	6.10
70 Minutes	13 In. Wtr. Col.	1/4"	6.10

Surface Choke 1" **Bottom Choke** 5/8"

Remarks: Gas to surface in 8 minutes; flowed oil 76 minutes into Final Flow.

Pressure Break Down

Test ticket no. 2525 Recorder no. 10269 Capacity 6500 Rec. Depth. 5392'

			Given	Computed
Initial Flow pressure	157 to 419	Time	30	31
Initial Closed in pressure	1313		60	59
Final Flow pressure	544 to 986		85	84
Final Closed-in pressure	1323		170	174

Initial Hydrostatic pressure 2724 Final Hydrostatic press. 2633 Temp 128

Initial Flow Press.

Minutes	Press
0	157
5	170
10	209
15	259
20	304
25	360
30	413
31~~85~~	419
40	
45	
50	
55	
60	
65	
70	
75	
80	
85	
90	
95	
100	
105	
110	
115	
120	

Initial Closed in Press.

Minutes	Press
0	419
3	1251
6	1277
9	1287
12	1294
15	1297
18	1303
21	1307
24	1307
27	1307
30	1310
33	1310
36	1310
39	1310
42	1310
45	1313
48	1313
51	1313
54	1313
57	1313
59~~60~~	1313
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	544
5	544
10	544
15	577
20	616
25	655
30	695
35	731
40	760
45	790
50	826
55	849
60	872
65	898
70	921
75	940
80	963
84~~85~~	986
90	
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	986
3	1271
6	1290
9	1300
12	1300
15	1300
18	1307
21	1307
24	1307
27	1307
30	1307
33	1307
36	1307
39	1310
42	1310
45	1310
48	1310
51	1310
54	1310
57	1310
60	1316
63	1316
66	1316
69	1316
72	1316
75	1316
78	1316
81	1316
84	1316
87	1316
90	1316
93	1316
96	1316
99	1316
102	1316
105	1316
108	1316
111	1316
114	1316
117	1316
120	1316

cont.

123	1316
126	1316
129	1320
132	1320
135	1320
138	1320
141	1320
144	1320
147	1320
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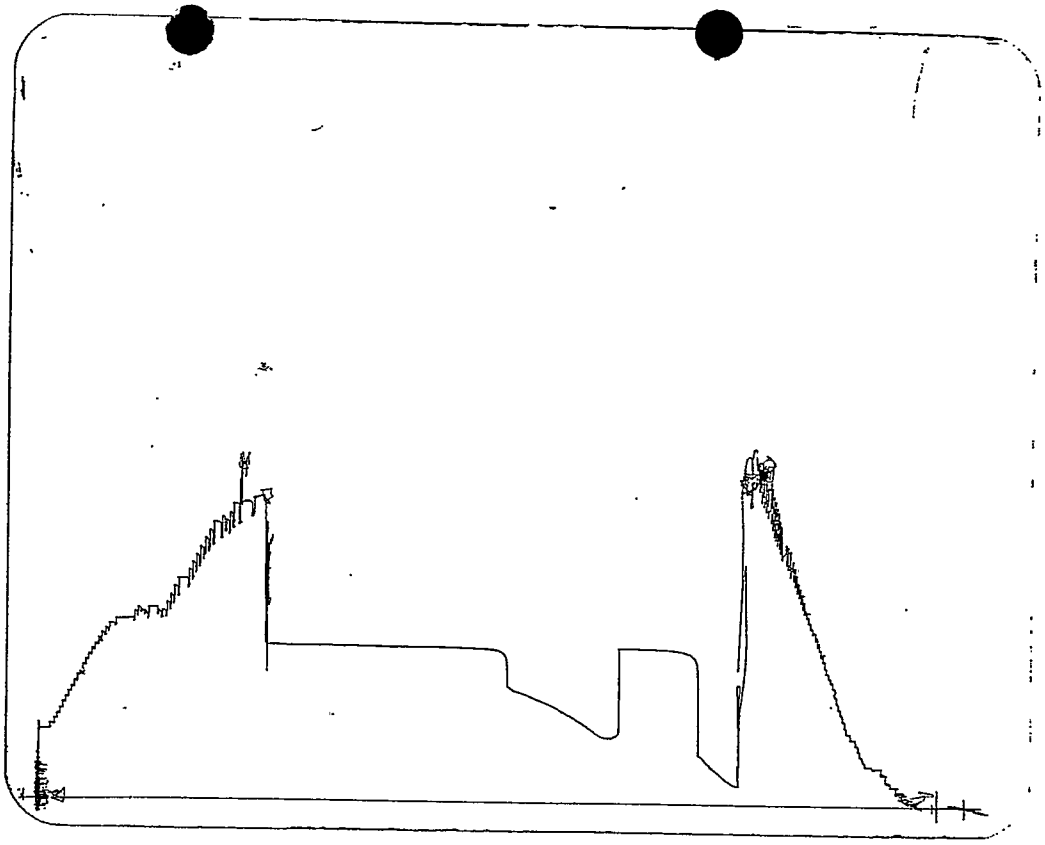
159	1320
162	1320
165	1323
168	1323
171	1323
174	1323



Initial Hydrostatic 2724 psi

IFP 157 psi to 419 psi

ISIP 1313 psi

FFP 544 psi to 986 psi

FSIP 1323 psi

Final Hydrostatic 2633 psi