

PHONE
318 / 624-7340

DEAN'S TESTERS INC.

P. O. BOX 1182
LIBERAL, Ks. 67901

Formation Morrow Type Test Conventional Date Nov. 28, 1986
Anchor Length and Size 22' X 4 1/2" OD-Perf. Total Depth 4915'
Packer Depths 4888' & 4893' Below Straddle Choke Size Bottom 5/8" Surface 1"
Equipment Run Jars, Safty joint., Circ. sub., Sampler

Lengths: Tool 55' D. P. 4324' ID 3.8" Wt. P. ID D. C. 555' ID 2.25"
Mud Type Chemical Vls. 39 Wt. 9.2 Wtr. Loss 10.4 Cl. 800 ppm
Recorders: Depth 4904' Make Kuster Cap. 6500 Ser. No. 10269 Inside
Depth 4913' Make Kuster Cap. 6450 Ser. No. 10268 Outside
Depth Make Cap. Ser. No. Below Straddle

Pressures:

Tool on Bottom @ <u>9:50 A.M.</u>	Initial Hydrostatic <u>2395</u> psi
Initial Flow <u>30</u> Min.	IFP <u>219</u> psi to <u>243</u> psi
Initial Shut-In <u>60</u> Min.	ISIP <u>1103</u> psi
Final Flow <u>60</u> Min.	FFP <u>201</u> psi to <u>224</u> psi
Final Shut-In <u>119</u> Min.	FSIP <u>1103</u> psi
Tool off Bottom @ <u>2:20 P.M.</u>	Final Hydrostatic <u>2382</u> psi Temp. <u>125</u>

Blow: Strong Thruout, Gas to surface in 5 min.

Recovery: 180' Gas Cut Mud.

Gas Flow: 847 MCF/D at end of flow period.

Sampler Data:

Pressure 260 PSI
Gas 1.34 cu. ft.
Total Fluid 100 cc
Oil -- cc
Water -- cc
Mud 100 950 PPM Cl. cc
Oil Gravity @ °F.
Gas/Oil Ratio

Remarks:

Tester R.L. Young Witnessed by: Stan Brady

SEC. 28

TWP. 32S

RGE. 42W

COUNTY Morton

STATE Kansas

TICKET NO. 3037

OPERATOR

WELL NAME & NO.

TEST #

TEST INTERVAL



P.O. Box 1182

Liberal, Kansas 67901

Company Hawkins Oil & Gas, Inc.

Well Haymaker #1-28

Test # 1

Interval 4893' - 4915'

Method of Gauge Merla 2" Quick-Change Orifice Well Tester

[illegible]

Surface Choke 1"

Bottom Choke 5/8"

Remarks: Gas to surface in 5 min.

Pressure Break Down

est ticket no. 3037 Recorder no. 10269 Capacity 6500 Rec. Depth. 4904'

Initial Flow pressure 219 to 243 Time

Given	Computed
<u>30</u>	<u>30</u>

Initial Closed in pressure 1103 60 60

Inlet Flow pressure 201 to 224 60 60

Final Closed-in pressure 1103 120 119

Initial Hydrostatic pressure 2395 Final Hydrostatic press. 2382 Temp 125

Initial Flow Press.

Minutes	Press
0	--
5	219
10	219
15	222
20	227
25	235
30	243
35	
40	
45	
50	
55	
60	
65	
70	
75	
80	
85	
90	
95	
100	
105	
110	
115	
120	

Initial Closed in Press.

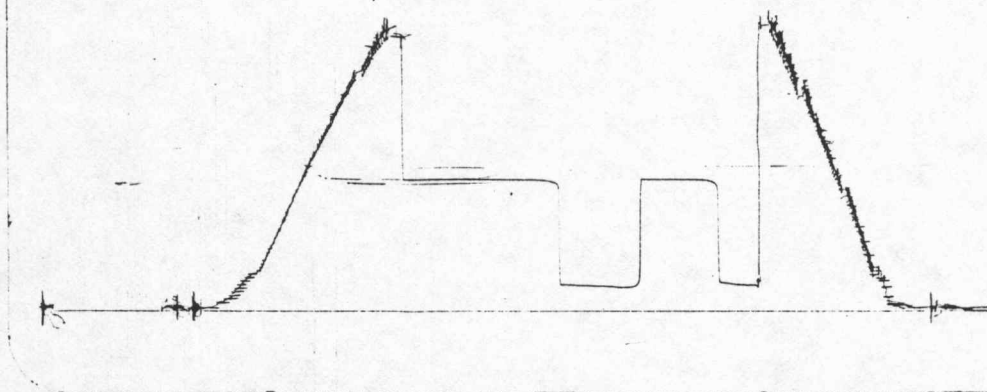
Minutes	Press
0	243
3	941
6	1078
9	1091
12	1099
15	1101
18	1101
21	1103
24	1103
27	1103
30	1103
33	1103
36	1103
39	
42	1103
45	
48	1103
51	
54	1103
57	
60	1103
63	
66	
69	
72	
75	
78	
81	
84	
87	
90	
93	
96	
99	
102	
105	
108	
111	
114	
117	
120	

Final Flow Press

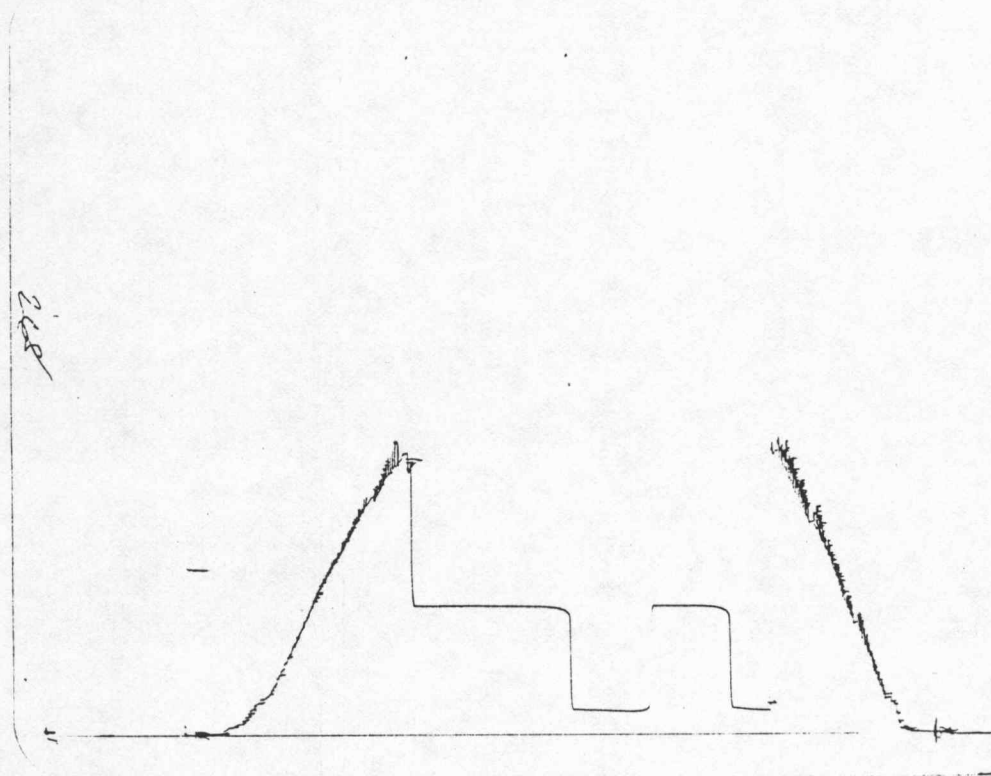
Minutes	Press
0	--
5	201
10	201
15	201
20	206
25	209
30	209
35	212
40	216
45	219
50	219
55	222
60	224
65	
70	
75	
80	
85	
90	
95	
100	
105	
110	
115	
120	
125	
130	
135	
140	
145	
150	
155	
160	
165	
170	
175	
180	

Final Closed in Press.

Minutes	Press
0	224
3	1043
6	1080
9	1088
12	1096
15	1099
18	1101
21	1101
24	1103
27	1103
30	1103
33	1103
36	1103
39	
42	1103
45	
48	1103
51	
54	1103
57	
60	1103
63	
66	1103
69	
72	1103
75	
78	1103
81	
84	1103
87	
90	1103
93	
96	1103
99	
102	1103
105	
108	1103
111	
114	1103
117	
120	1103



Initial Hydrostatic _____ 2395 _____ psi
 IFP _____ 219 _____ psi to _____ 243 _____ psi
 ISIP _____ 1103 _____ psi
 FFP _____ 201 _____ psi to _____ 224 _____ psi
 FSIP _____ 1103 _____ psi
 Final Hydrostatic _____ 2382 _____ psi



PHONE
318 / 824-7340

DEAN'S TESTERS INC.

P. O. BOX 1182
LIBERAL, Ks. 67901

Formation St. Louis Type Test Conventional Date Nov. 30, 1986
Anchor Length and Size 37' X 4 1/2" OD-Perf. Total Depth 5263'
Packer Depths 5221' & 5226' Below Straddle _____ Choke Size Bottom 5/8" Surface 1/4"
Equipment Run Jars, Safty joint, Circ. sub., Sampler

Lengths: Tool 70' D. P. 4669' ID 3.8" Wt. P. _____ ID _____ D. C. 555' ID 2.25"
Mud Type Chemical Vls. 63 Wt. 9.3 Wtr. Loss 6.4 Cl. 1100 ppm

Recorders: Depth 5252' Make Kuster Cap. 6500 Ser. No. 10269 Inside
Depth 5261' Make Kuster Cap. 6450 Ser. No. 10268 Outside
Depth _____ Make _____ Cap. _____ Ser. No. _____ Below Straddle

Pressures:

Tool on Bottom @ <u>12:40 P.M.</u>	Initial Hydrostatic <u>2557</u> psi
Initial Flow <u>31</u> Min.	IFP <u>91</u> psi to <u>78</u> psi
Initial Shut-In <u>57</u> Min.	ISIP <u>1150</u> psi
Final Flow <u>32</u> Min.	FFP <u>100</u> psi to <u>78</u> psi
Final Shut-In <u>57</u> Min.	FSIP <u>1035</u> psi
Tool off Bottom @ <u>3:40 P.M.</u>	Final Hydrostatic <u>2550</u> psi Temp. <u>140</u>

Blow: Weak blow died in 20 min. on I.F.P., No blow on F.F.P.

Recovery: 45' Mud.

Gas Flow:

Sampler Data:

Pressure 40 PSI
Gas -- cu. ft.
Total Fluid 2000 cc
Oil -- cc
Water -- cc
Mud 2000 1500 PPM Cl. cc
Oil Gravity _____ @ _____ °F.
Gas/Oil Ratio _____

Remarks: Slid tool 6' after opened.

Tester R.L. Young Witnessed by: Stan Brady

SEC. 28
TWP. 32S
RGE. 42W
COUNTY Morton
STATE Kansas
TICKET NO. 3138

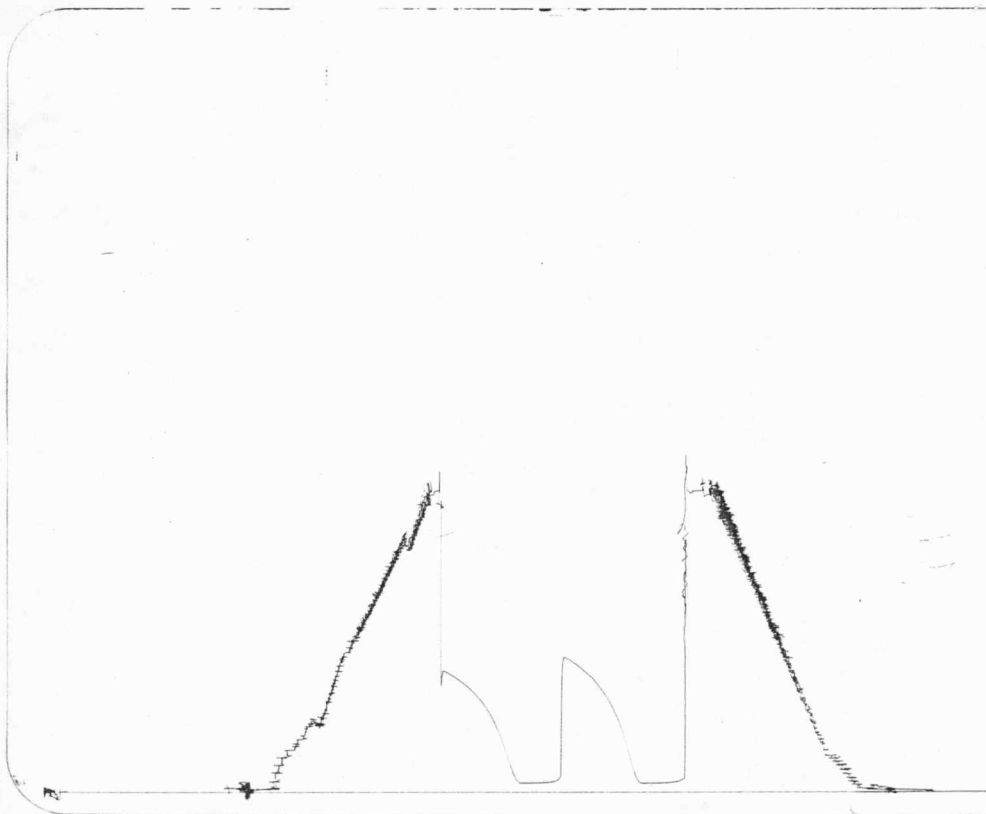
HAWKINS OIL & GAS, INC.
OPERATOR
DAYMARKER 71-70
WELL NAME & NO.
TEST #
2440 - 2400
TEST INTERVAL

Test ticket no. 3138 Recorder no. 13644 Capacity 6525 Rec. Depth. 5252'

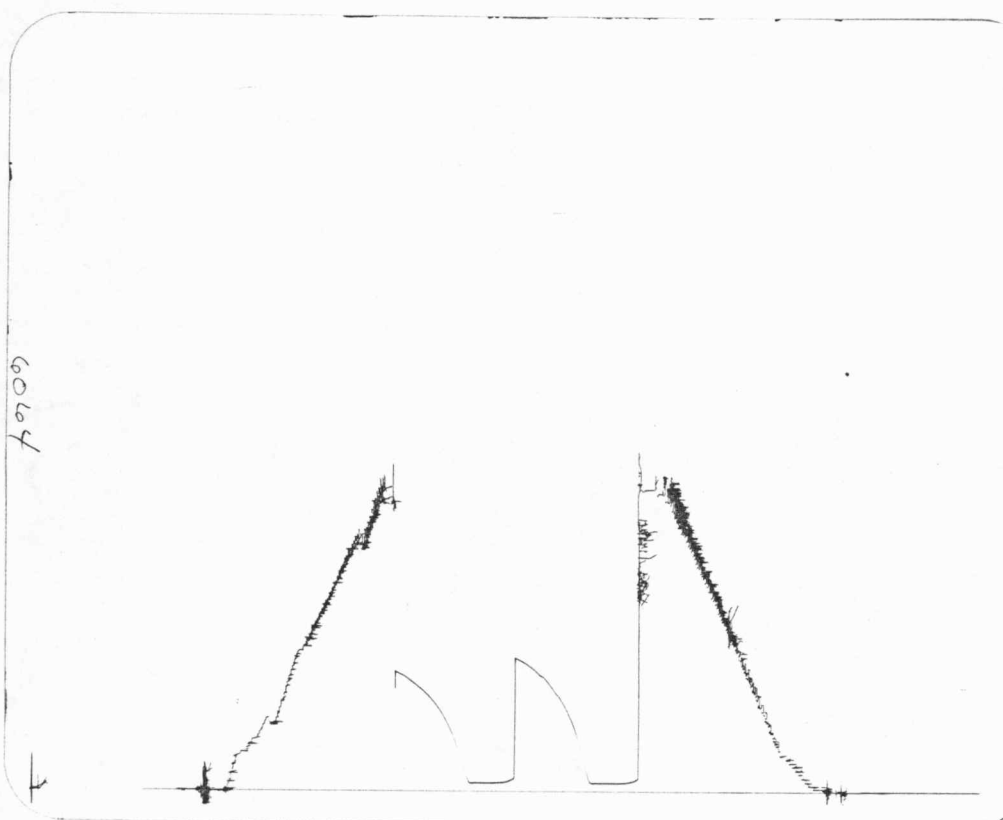
		Given	Computed
Initial Flow pressure	91 to 78	30	31
Initial Closed in pressure	1150	60	57
Final Flow pressure	100 to 78	30	32
Final Closed-in pressure	1035	60	57
Initial Hydrostatic pressure	2557		
Final Hydrostatic press.	2550		
Temp	1		

Initial Hydrostatic pressure 2557 Final Hydrostatic press. 2550 Temp 140

Initial Flow Press.		Initial Closed in Press.		Final Flow Press		Final Closed in Press.	
Minutes	Press	Minutes	Press	Minutes	Press	Minutes	Press
0	--	0	78	0	--	0	78
5	91	3	91	5	100	3	104
10	84	6	156	10	87	6	175
15	81	9	267	15	81	9	273
20	78	12	384	20	78	12	384
25	78	15	508	25	78	15	485
30	78	18	605	30	78	18	566
35		21	690	32 33	78	21	638
40		24	765	40		24	700
45		27	827	45		27	755
50		30	872	50		30	798
55		33	925	55		33	833
60		36	967	60		36	869
65		39	996	65		39	902
70		42	1026	70		42	931
75		45	1055	75		45	957
80		48	1085	80		48	980
85		51	1107	85		51	1003
90		54	1130	90		54	1019
95		57	1150	95		57	1035
100		60		100		60	
105		63		105		63	
110		66		110		66	
115		69		115		69	
120		72		120		72	
		75		125		75	
		78		130		78	
		81		135		81	
		84		140		84	
		87		145		87	
		90		150		90	
		93		155		93	
		96		160		96	
		99		165		99	
		102		170		102	
		105		175		105	
		108		180		108	
		111				111	
		114				114	
		117				117	
		120				120	



Initial Hydrostatic _____ 2557 _____ psi
 IFP _____ 91 _____ psi to _____ 78 _____ psi
 ISIP _____ 1150 _____ psi
 FFP _____ 100 _____ psi to _____ 78 _____ psi
 FSIP _____ 1035 _____ psi
 Final Hydrostatic _____ 2550 _____ psi



PHONE
316 / 624-7340

DEAN'S TESTERS INC.

P. O. BOX 1182
LIBERAL, Ks. 67901

Formation St. Louis Type Test Conventional Date Dec. 2, 1986
Anchor Length and Size 32'X6"OD-D.C., 40'X 4 1/2"OD-Perf. Total Depth 5398'
Packer Depths 5321' & 5326' Below Straddle _____ Choke Size Bottom 5/8" Surface 1/4"
Equipment Run Jars, Safty joint, Circ. sub., Sampler

Lengths: Tool 105' D. P. 4792' ID 3.8" Wt. P. _____ ID _____ D. C. 523' ID 2.25"
Mud Type Chemical Vis. 50 Wt. 9.3 Wtr. Loss 6.0 Cl. 800 ppm

Recorders: Depth 5348' Make Kuster Cap. 6500 Ser. No. 10269 Inside
Depth 5357' Make Kuster Cap. 6450 Ser. No. 10268 Outside
Depth _____ Make _____ Cap. _____ Ser. No. _____ Below Straddle

Pressures:

Tool on Bottom @ 5:00 A.M. Initial Hydrostatic 2598 psi
Initial Flow 30 Min. IFP 119 psi to 174 psi
Initial Shut-In 57 Min. ISIP 1307 psi
Final Flow 60 Min. FFP 196 psi to 282 psi
Final Shut-In 120 Min. FSIP 1295 psi
Tool off Bottom @ 9:30 A.M. Final Hydrostatic 2585 psi Temp. 148

Blow: Weak increasing slightly on both flow periods.

Recovery: 540' Total Fluid.
120' Mud.
120' Watery Mud.
300' Water

Gas Flow:

Sampler Data:

Pressure 45 PSI
Gas -- cu. ft.
Total Fluid 2000 cc
Oil -- cc
Water 1100 13,000 PPM Cl. cc
Mud 900 cc
Oil Gravity _____ @ _____ °F.
Gas/Oil Ratio _____

Remarks: Slid tool 12' to bottom after opened.

Rw. -.15 @ 148 F.

Tester R.L. Young Witnessed by: Stan Brady

SEC. 28 TWP. 32S RGE. 42W

COUNTY Morton

STATE Kansas

TICKET NO. 3039

Hawkins Oil & Gas, Inc.
OPERATOR

Haymaker #1-28
WELL NAME & NO.

TEST #

5326' - 5398'
TEST INTERVAL

Pressure Break Down

Test ticket no. 3039 Recorder no. 10269 Capacity 6500 Rec. Depth. 5348'

Initial Flow pressure 119 to 174 Time Given 30 Computed 30

Initial Closed in pressure 1307 60 57

Final Flow pressure 196 to 282 60 60

Final Closed-in pressure 1295 120 120

Initial Hydrostatic pressure 2598 Final Hydrostatic press. 2585 Temp 148

Initial Flow Press.[illegible]

Initial Closed in Press.

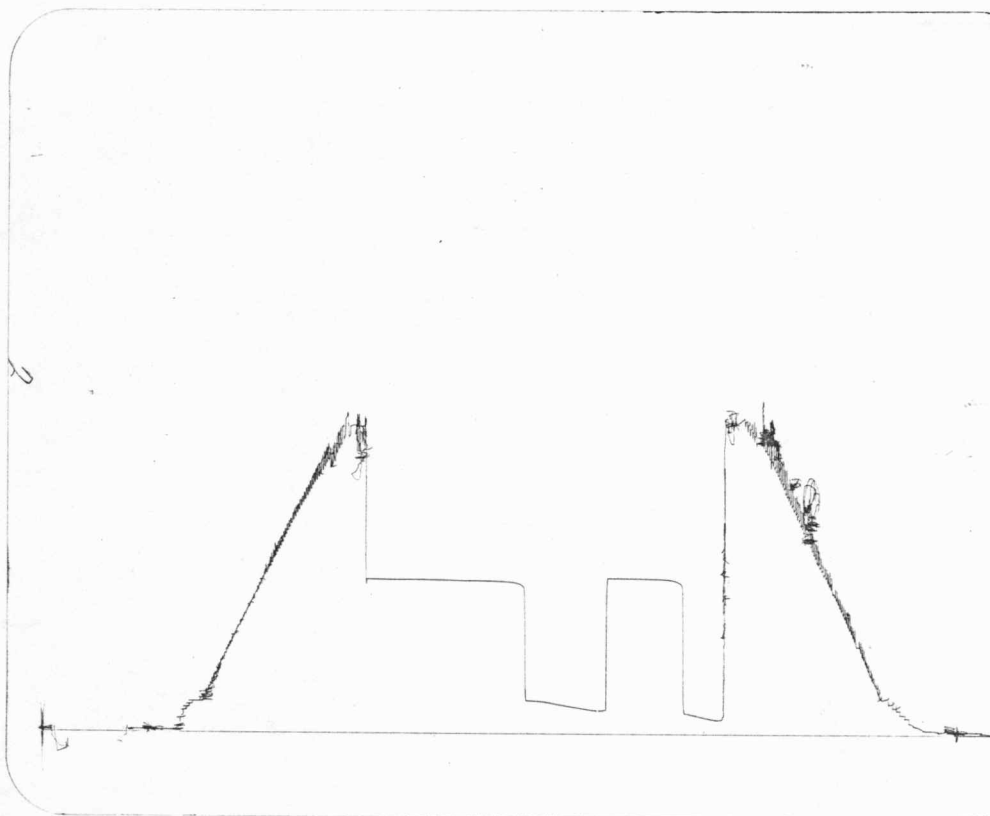
Minutes	Press
0	174
3	1260
6	1282
9	1292
12	1299
15	1302
18	1302
21	1303
24	1305
27	1305
30	1305
33	1307
36	1307
39	
42	1307
45	
48	1307
51	
54	1307
57	
60	1307
63	
66	
69	
72	
75	
78	
81	
84	
87	
90	
93	
96	
99	
102	
105	
108	
111	
114	
117	
120	

Final Flow Press

Minutes	Press
0	--
5	196
10	200
15	208
20	217
25	227
30	238
35	246
40	256
45	266
50	274
55	279
60	282
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	282
3	1237
6	1260
9	1270
12	1274
15	1279
18	1282
21	1282
24	1284
27	1284
30	1284
33	
36	1284
39	
42	1286
45	
48	1286
51	
54	1289
57	
60	1289
63	
66	1291
69	
72	1291
75	
78	1292
81	
84	1294
87	
90	1294
93	
96	1294
99	
102	1294
105	
108	1295
111	
114	1295
117	
120	1295



Initial Hydrostatic _____ 2598 _____ psi
 IFP _____ 119 _____ psi to _____ 174 _____ psi
 ISIP _____ 1307 _____ psi
 FFP _____ 196 _____ psi to _____ 282 _____ psi
 FSIP _____ 1295 _____ psi
 Final Hydrostatic _____ 2585 _____ psi

