

316/624-7340

DEAN'S TESTERS

Box 1182, Liberal, Ks.

JUL 8 1979

Company Orion Energy Date June 27, 1979
 Well Name & No. Erwin #1 Sec. 34 Twp. 32S Rge. 32W
 County Seward State Kans. Elevation _____
 Test Approved by Butch Smith Tester R. J. Westenhaver

DST No. 1 Formation Krider Test Interval 2556' to 2640' Total Depth 2640'
 Anchor Length 84' Anchor Size 58' x 6" OD-D.C. Surface Choke 1/4" Bot. Choke 5/8"
 Top Packer Depth 2551' Damaged no Bottom Packer Depth 2556' Damaged no
 Below Straddle Depth _____ Damaged _____ Bot. Packer Depth _____ Damaged _____
 Recorders: Depth 2546' Make Kuster Capacity 6500 Ser. No. 10269 Inside
 Depth 2570' Make Kuster Capacity 6450 Ser. No. 10268 Outside
 Below Straddle: Depth _____ Make _____ Capacity _____ Ser. No. _____

PRESSURES:

Misrun.

Tool Open _____ min. IFP _____ psi to _____ psi
 Shut-In _____ min. ISIP _____ psi
 Open _____ min. FFP _____ psi to _____ psi
 Shut-In _____ min. FSIP _____ psi

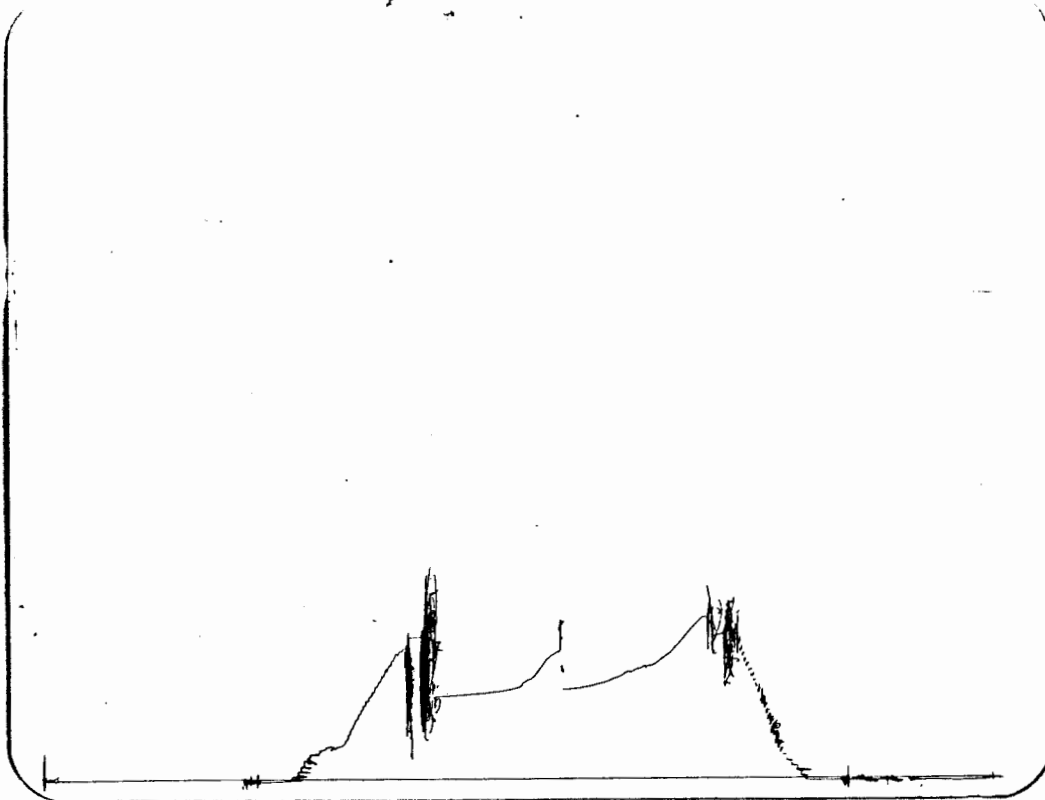
Hydrostatic Pressures: Initial _____ Final _____ Temp _____ °F
 Blow Good Decreasing To No Blow @ 45 Min On Initial. No Blow On Final.
 Recovery 2300' Mud.

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

Lengths: Tool 111' DP 2040' ID 3.8 Wt.P. --- ID --- DC 511' ID 2.25
 Mud Type Starch Vis. 43 Wt. 8.7 Wtr. Loss 16.7 Chlorides 30,000 PPM

Remarks: Recovered 2300' Fluid From Leaking Drill Pipe.

34-32S-32W



Actual photograph of test chart

Misrun.

Pressure Reading

Initial Flow pressure _____ PSI

Initial Closed in pressure _____ PSI

Final Flow pressure _____ PSI

Final Closed in pressure _____ PSI

Initial Hydrostatic pressure _____ PSI

Final Hydrostatic pressure _____ PSI

Recovery: _____

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Box 1182, Liberal, Ks.

Company Orion Energy Date June 27, 1979
 Well Name & No. Erwin #1 Sec. 34 Twp. 32S Rge. 32W
 County Seward State Kans. Elevation _____
 Test Approved by Butch Smith Tester R. J. Westenhaver

DST No. 2 Formation Krider Test Interval 2554' to 2640' Total Depth 2640'
 Anchor Length 86' Anchor Size 58' x 6" OD-D.C. Surface Choke 1/4" Bot. Choke 5/8"
28' x 1 1/2" OD-Perf.
 Top Packer Depth 2549' Damaged no Bottom Packer Depth 2554' Damaged no
 Below Straddle Depth _____ Damaged _____ Bot. Packer Depth _____ Damaged _____
 Recorders: Depth 2545' Make Kuster Capacity 6500 Ser. No. 10269 Inside
 Depth 2570' Make Kuster Capacity 6450 Ser. No. 10268 Outside
 Below Straddle: Depth _____ Make _____ Capacity _____ Ser. No. _____

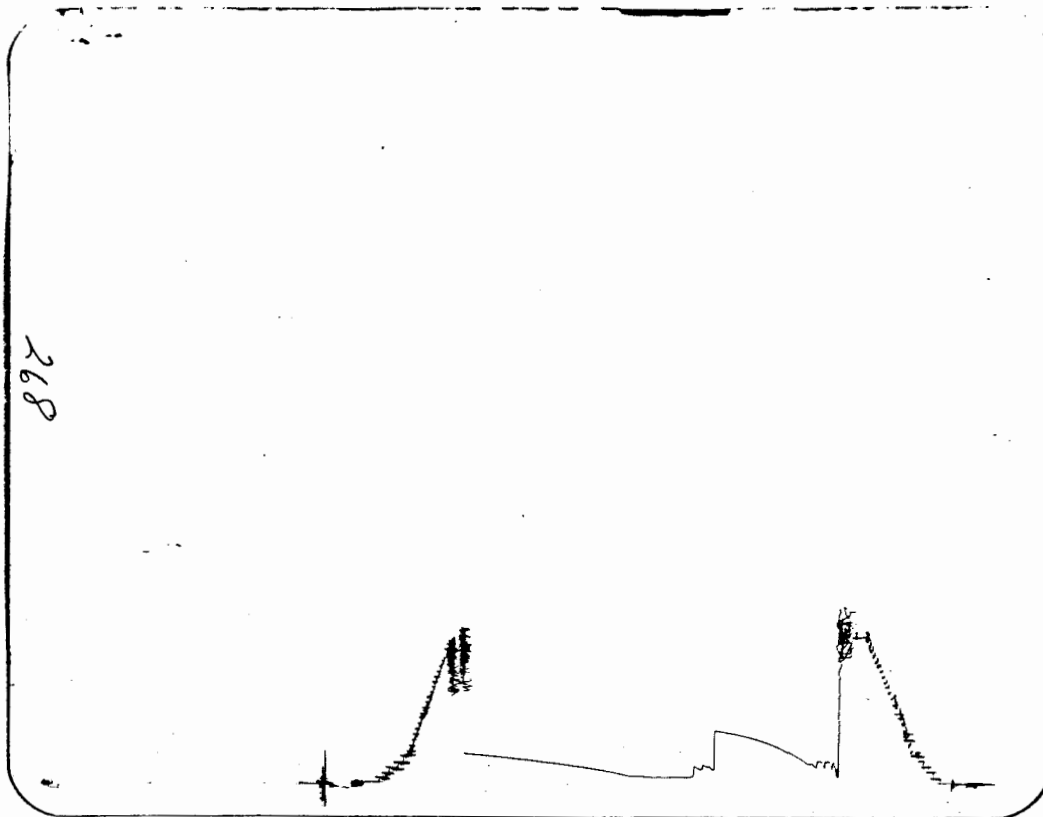
PRESSURES:

Tool Open 30 min. IFP Plugging Action psi to _____ psi
 Shut-In 60 min. ISIP 452 psi
 Open 60 min. FFP 55 psi to 65 psi
 Shut-In 120 min. FSIP 259 psi
 Hydrostatic Pressures: Initial 1251 Final 1186 Temp 94 °F
 Blow Weak On Initial. Weak Increasing To Strong On Final.
 Recovery 80' Mud. No Show.

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

Lengths: Tool 113' DP 2040' ID 3.8 Wt.P. --- ID --- DC 511' ID 2.25
 Mud Type Starch Vis. 43 Wt. 8.7 Wtr. Loss 16.7 Chlorides 3,000 PPM

Remarks: Charts Show Anchor Plugging Action During Preflow
and First 10 Min. On Final Flow.



Actual photograph of test chart

	Field	Pressure Reading Office	
Initial Flow pressure	Plugging Action		PSI
Initial Closed in pressure	442	452	PSI
Final Flow pressure	Plugging - 49	55 - 65	PSI
Final Closed in pressure	229	259	PSI
Initial Hydrostatic pressure	1212	1251	PSI
Final Hydrostatic pressure	1147	1186	PSI

Recovery: 80' Mud. No Show.

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DEAN'S TESTERS

Box 1182, Liberal, Ks.

Company Orion Energy Date July 2, 1979Well Name & No. Irwin #1 Sec. 34 Twp. 32S Rge. 32WCounty Seward State Kans. Elevation _____Test Approved by Bill Daugherty Tester Max HughesDST No. 3 Formation Lancing Test Interval 4313' to 4324' Total Depth 4324'Anchor Length 11' Anchor Size 4 1/2" OD Surface Choke 1/4" Bot. Choke 5/8"Top Packer Depth 4318' Damaged no Bottom Packer Depth 4313' Damaged no

Below Straddle Depth _____ Damaged _____ Bot. Packer Depth _____ Damaged _____

Recorders: Depth 4303' Make Kuster Capacity 6800 Ser. No. 10217 InsideDepth 4321' Make Kuster Capacity 6450 Ser. No. 6064 Outside

Below Straddle: Depth _____ Make _____ Capacity _____ Ser. No. _____

PRESSURES:Tool Open 30 min. IFP 30 psi to 61 psiShut-In 60 min. ISIP 1253 psiOpen 60 min. FFP 109 psi to 184 psiShut-In 114 min. FSIP 1246 psiHydrostatic Pressures: Initial 2078 Final 2044 Temp 106 °FBlow Final Flow-No Blow 1st 15 Min. Bypass Tool Then Recieved Weak Blow
Recovery With Slow Build Up To Bottom Of Bucket Last 10 Min. Of Final Flow.10' Oil & 360' Slightly Oil & Gas Cut Salt Water. 87,000 PPM Cl.Extra Equipment 2 Packers, Jars, Sfty. jnt., Circ. sub.Lengths: Tool 40' DP _____ ID _____ Wt.P _____ ID _____ DC _____ ID 2.25Mud Type Chemical Vis. 48 Wt. 9.1 Wtr. Loss 9.4 Chlorides 4,800 PPM

Remarks: _____

Pressure Break Down

Test ticket no. 873 Recorder no. 10217 Capacity 6800 Rec. Depth. 4303'

Initial Flow pressure 30 to 61 Time Given 30 Computed 30

Initial Closed in pressure 1253 60 .60

Final Flow pressure 109 to 184 60 60

Final Closed-in pressure 1246 120 114

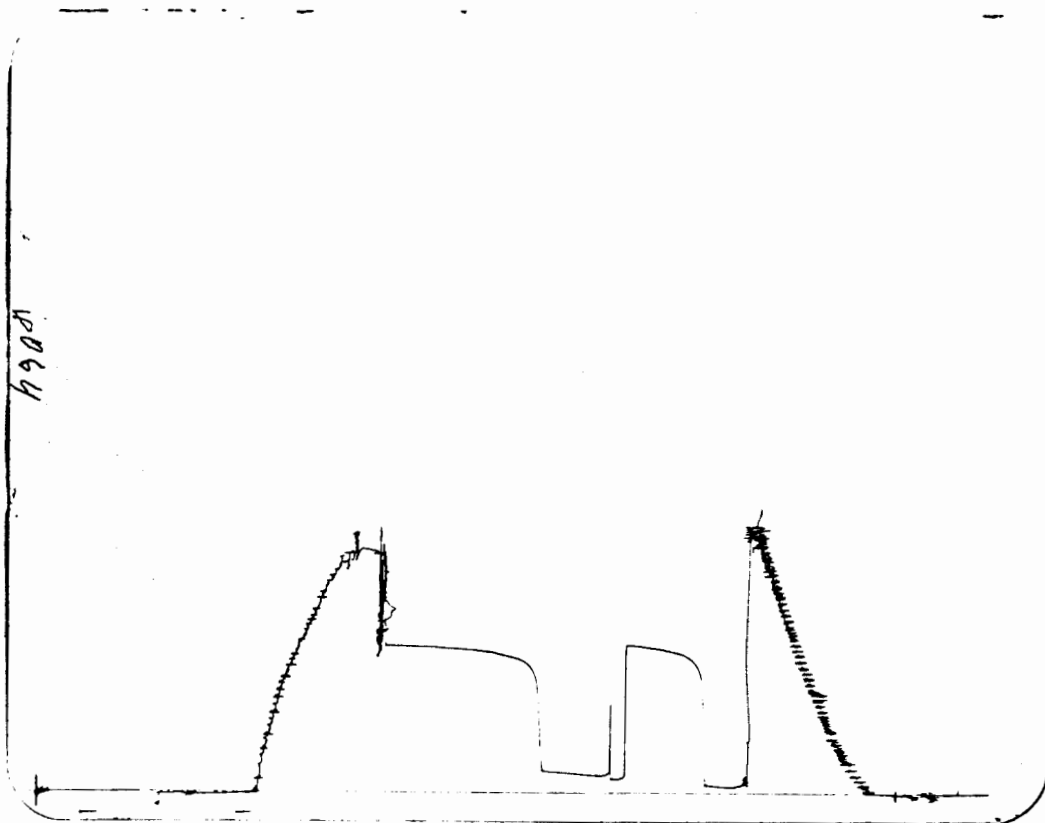
Initial Hydrostatic pressure 2078 Final Hydrostatic press. 2044 Temp 106

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Minutes	Press
0	61
3	
6	1000
9	
12	1106
15	
18	1157
21	
24	1188
27	
30	1208
33	
36	1222
39	
42	1232
45	
48	1239
51	
54	1246
57	
60	1253
63	
66	
69	
72	
75	
78	
81	
84	
87	
90	
93	
96	
99	
102	
105	
108	
111	
114	
117	
120	

Minutes	Press
0	---
5	109
10	109
15	133
20	136
25	140
30	147
35	154
40	157
45	164
50	171
55	178
60	184
65	
70	
75	
80	
85	
90	
95	
100	
105	
110	
115	
120	
125	
130	
135	
140	
145	
150	
155	
160	
165	
170	
175	
180	

Minutes	Press
0	184
3	
6	869
9	
12	1044
15	
18	1102
21	
24	1136
27	
30	1157
33	
36	1171
39	
42	1184
45	
48	1195
51	
54	1205
57	
60	1215
63	
66	1219
69	
72	1222
75	
78	1226
81	
84	1229
87	
90	1232
93	
96	1236
99	
102	1239
105	
108	1243
111	
114	1246
117	
120	



Actual photograph of test chart

	Field	Pressure Reading Office	
Initial Flow pressure	51 - 68	30 - 61	PSI
Initial Closed in pressure	1267	1253	PSI
Final Flow pressure	119 - 188	109 - 184	PSI
Final Closed in pressure	1267	1246	PSI
Initial Hydrostatic pressure	2088	2078	PSI
Final Hydrostatic pressure	2054	2044	PSI

Recovery: 10' Oil & 360' Slight Oil & Gas Cut Salt Water.

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GREAT BEND
Division Office

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DEAN'S TESTERS

Box 1182, Liberal, Ks.

Company Orion Energy Date July 6, 1979Well Name & No. Irwin #1 Sec. 34 Twp. 32S Rge. 32WCounty Seward State Kans. Elevation _____Test Approved by T. E. Osburn Tester Max HughesDST No. 4 Formation Morrow Test Interval 5503' to 5676' Total Depth 5676'Anchor Length 173' Anchor Size 1 1/8" x 6" OD-D.C. Surface Choke 1 1/4" Bot. Choke 5/8"
2 5/8" x 1 1/2" OD-Perf.Top Packer Depth 5498' Damaged no Bottom Packer Depth 5503' Damaged no

Below Straddle Depth _____ Damaged _____ Bot. Packer Depth _____ Damaged _____

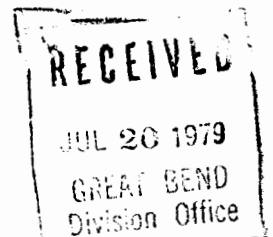
Recorders: Depth 5493' Make Kuster Capacity 6800 Ser. No. 10217 InsideDepth 5518' Make Kuster Capacity 6450 Ser. No. 6064 Outside

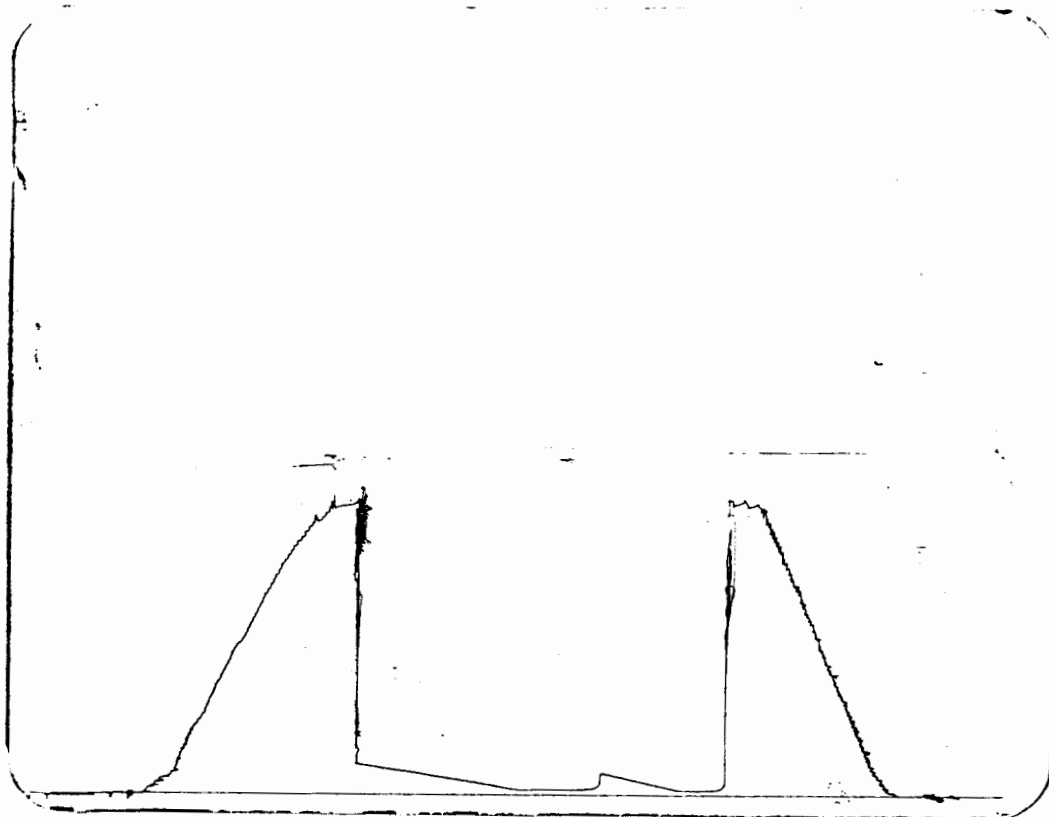
Below Straddle: Depth _____ Make _____ Capacity _____ Ser. No. _____

PRESSURES:Tool Open 30 min. IFP 58 psi to 44 psiShut-In 60 min. ISIP 195 psiOpen 60 min. FFP 51 psi to 44 psiShut-In 120 min. FSIP 277 psiHydrostatic Pressures: Initial 2580 Final 2546 Temp 126 °FBlow Weak On Initial. Final Flow- Weak With Slow Build Up To Bottom Of BuckeRecovery 190' Drilling Mud. Last 20 Min.Extra Equipment 2 Packers, Jars, Sfty. jnt., Circ. sub.Lengths: Tool 59' DP 5200' ID 3.8 Wt.P. --- ID --- DC 392' ID 2.25

Mud Type _____ Vis. _____ Wt. _____ Wtr. Loss _____ Chlorides _____ PPM

Remarks: _____





Actual photograph of test chart

	Field	Pressure Reading Office	
Initial Flow pressure	51 - 68	58 - 44	PSI
Initial Closed in pressure	119	195	PSI
Final Flow pressure	68 - 68	51 - 44	PSI
Final Closed in pressure	291	277	PSI
Initial Hydrostatic pressure	2583	2588	PSI
Final Hydrostatic pressure	2549	2546	PSI

Recovery: 190' Drilling Mud.

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GREAT BEND
Division Office

316/624-7340

DEAN'S TESTERS

JUL 18 1979
Box 1182, Liberal, Ks.

Company Orion Energy Date July 9, 1979
 Well Name & No. Irwin #1 Sec. 34 Twp. 32S Rge. 32W
 County Seward State Kans. Elevation _____
 Test Approved by T. E. Osburn Tester R. J. Westenhaver

DST No. 5 Formation St. Louis Test Interval 5920' to 5960' Total Depth 6113'
 Anchor Length 40' Anchor Size 4 1/2" OD Surface Choke 1/4" Bot. Choke 5/8"
 Top Packer Depth 5915' Damaged no Bottom Packer Depth 5920' Damaged no
 Below Straddle Depth 5960' Damaged no Bot. Packer Depth _____ Damaged _____
 Recorders: Depth 5940' Make Kuster Capacity 6500 Ser. No. 10269 Inside
 Depth 5954' Make Kuster Capacity 6450 Ser. No. 10268 Outside
 Below Straddle: Depth 5965' Make H & T Capacity 6000 Ser. No. 69

PRESSURES:

Tool Open 30 min. IFP 36 psi to 72 psi
 Shut-In 61 min. ISIP 1699 psi
 Open 61 min. FFR 88 psi to 154 psi
 Shut-In 123 min. FSIP 1722 psi

Hydrostatic Pressures: Initial 2824 Final 2792 Temp 128 °F

Blow Strong Throughout Test.

Recovery 160' Oil & Gas Cut Mud. 180' Oil & Gas Cut Muddy Salt Water.

Extra Equipment 3 Packers, Jars, Sfty. jnt., Circ. sub, Straddle.

Lengths: Tool 220' DP 5455' ID 3.8 Wt.P _____ ID _____ DC 393' ID 2.25
 Mud Type Chemical Vis. 41 Wt. 8.8 Wtr. Loss 9.4 Chlorides 3,000 PPM

Remarks: _____

Pressure Break Down

Test ticket no. 504 Recorder no. 10269 Capacity 6500 Rec. Depth. 5940'

Initial Flow pressure 36 to 72 Time Given 30 Computed 30

Initial Closed in pressure 1699 60 61

Final Flow pressure 88 to 154 60 61

Final Closed-in pressure 1722 120 123

Initial Hydrostatic pressure 2824 Final Hydrostatic press. 2792 Temp 128

Initial Flow Press.

Minutes	Press
0	36
5	36
10	42
15	52
20	59
25	65
30	72
35	
40	
45	
50	
55	
60	
65	
70	
75	
80	
85	
90	
95	
100	
105	
110	
115	
120	

Initial Closed in Press.

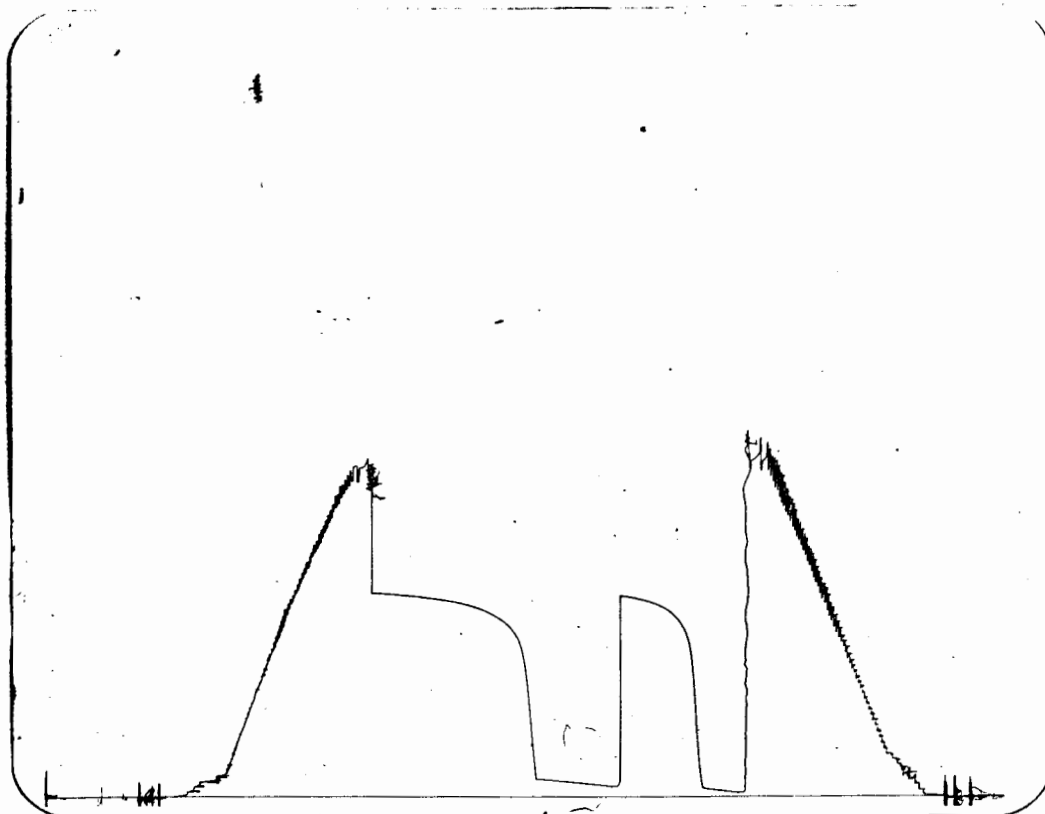
Minutes	Press
0	72
3	
6	688
9	
12	1375
15	
18	1500
21	
24	1562
27	
30	1604
33	1620
36	1637
39	1647
42	1656
45	1666
48	1673
51	1679
54	1686
57	1692
60	1699
61 x 68	1699
66	
69	
72	
75	
78	
81	
84	
87	
90	
93	
96	
99	
102	
105	
108	
111	
114	
117	
120	

Final Flow Press

Minutes	Press
0	--
5	88
10	95
15	101
20	108
25	114
30	121
35	127
40	134
45	137
50	144
55	150
60	154
61 x 68	154
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	154
3	
6	852
9	
12	1281
15	
18	1408
21	
24	1473
27	
30	1519
33	
36	1555
39	
42	1584
45	
48	1604
51	
54	1624
57	
60	1640
63	
66	1653
69	
72	1663
75	
78	1673
81	
84	1683
87	
90	1689
93	
96	1696
99	
102	1702
105	
108	1709
111	
114	1715
117	
120	1718
123	1722



Actual photograph of test chart

	Field	Pressure Reading Office	
Initial Flow pressure	32 - 65	36 - 72	PSI
Initial Closed in pressure	1686	1699	PSI
Final Flow pressure	81 - 147	88 - 154	PSI
Final Closed in pressure	1718	1722	PSI
Initial Hydrostatic pressure	2824	2824	PSI
Final Hydrostatic pressure	2775	2792	PSI

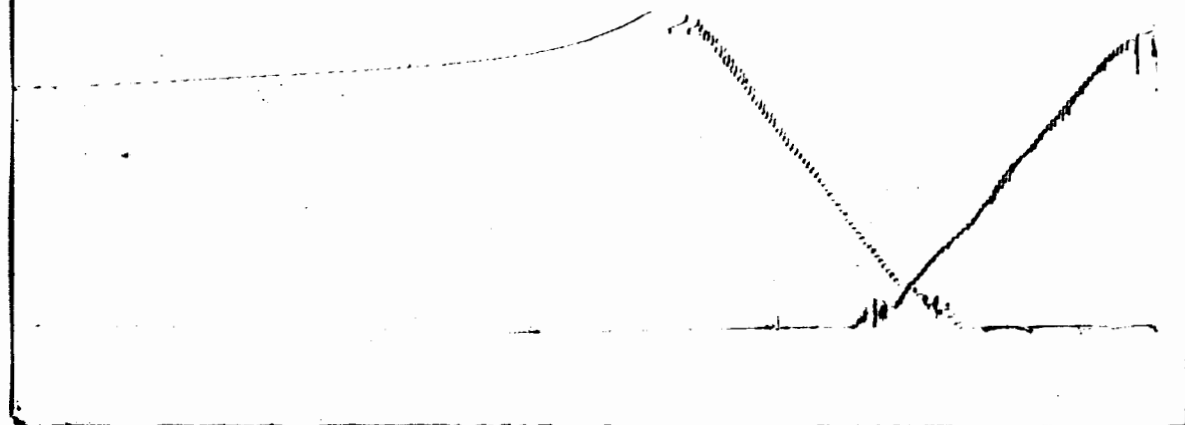
Recovery: 160' Oil & Gas Cut Mud. 180' Oil & Gas Cut Muddy Salt Water.

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Division Office

Below Straddle



316/624-7340

DEAN'S TESTERS

JUL 10 REC'D

Box 1182, Liberal, Ks.

Company Orion Energy Date July 10, 1979
 Well Name & No. Irwin #1 Sec. 34 Twp. 32S Rge. 32W
 County Seward State Kans. Elevation _____
 Test Approved by Butch Smith Tester Max Hughes

DST No. 6 Formation Chester Test Interval 5730' to 5855' Total Depth 6113'
 Anchor Length 125' Anchor Size 100' x 6" OD-D.C. Surface Choke 1/4" Bot. Choke 5/8"
25' x 1 1/2" OD-Perf.
 Top Packer Depth 5725' Damaged no Bottom Packer Depth 5730' Damaged no
 Below Straddle Depth _____ Damaged _____ Bot. Packer Depth 5855' Damaged yes
 Recorders: Depth 5745' Make Kuster Capacity 6800 Ser. No. 10217 Inside
 Depth 5754' Make Kuster Capacity 6450 Ser. No. 6064 Outside
 Below Straddle: Depth 5865' Make H & T Capacity 6000 Ser. No. 60

PRESSURES:

Tool Open 30 min. IFP 75 psi to 78 psi
 Shut-In 60 min. ISIP 363 psi
 Open 60 min. FFP 106 psi to 109 psi
 Shut-In 120 min. FSIP 349 psi

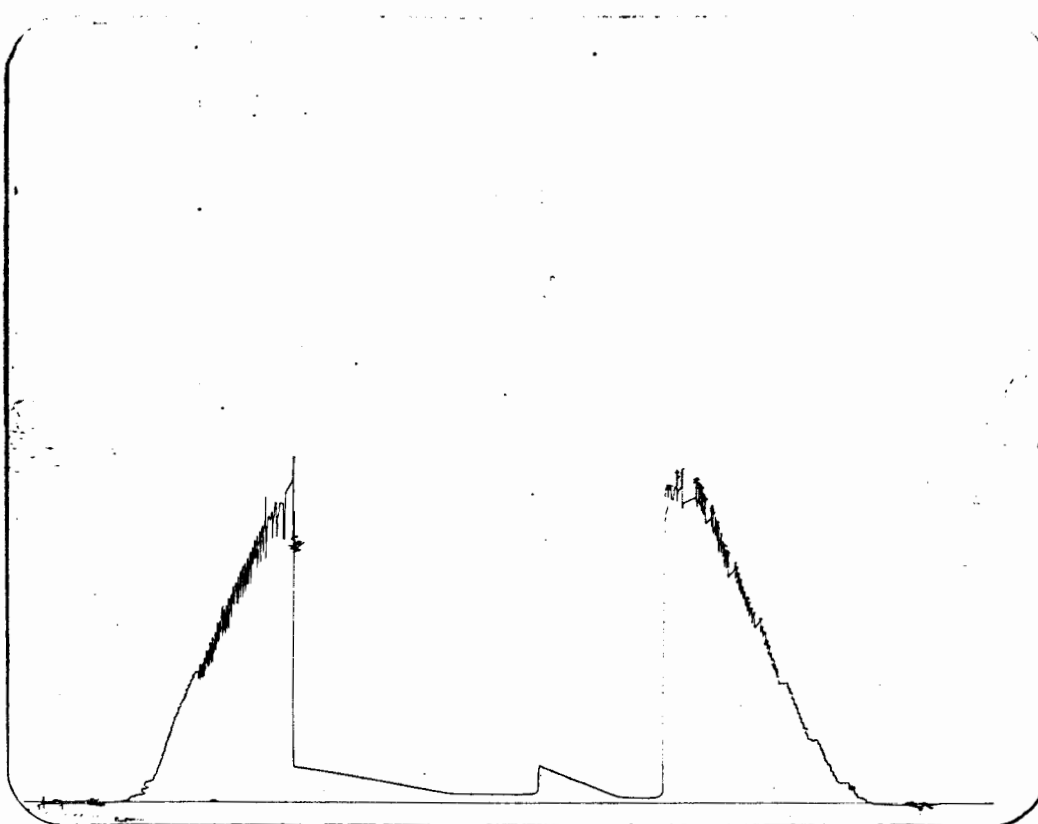
Hydrostatic Pressures: Initial 2720 Final 2692 Temp _____ °F

Blow Good Blow On Initial Open. Final Blow-Strong. No Gas To Surface
 Recovery 60' Mud. 180' Slight Oil Cut Mud.

Extra Equipment 3 Packers, Jars, Sfty. int., Circ. sub. Straddle, Hook Assem.

Lengths: Tool 160' DP _____ ID _____ Wt.P. _____ ID _____ DC 303' ID 2.25
 Mud Type Chemical Vis. 41 Wt. 8.8 Wtr. Loss 9.4 Chlorides 3,000 PPM

Remarks: _____



Actual photograph of test chart

	Field	Pressure Reading Office	
Initial Flow pressure	51 - 68	75 - 78	PSI
Initial Closed in pressure	342	363	PSI
Final Flow pressure	102 - 102	106 - 109	PSI
Final Closed in pressure	325	349	PSI
Initial Hydrostatic pressure	2668	2720	PSI
Final Hydrostatic pressure	2651	2692	PSI

Recovery: 60' Mud. 180' Slight Oil Cut Mud.



Below Straddle

