

SEC. 35

TWP. 32S

RGE. 34W

C NW - NW

COUNTY Seward

STATE - Kansas

TICKET NO. 2423

P. O. BOX 1182
LIBERAL, Ks. 67801

DEAN'S TESTERS INC.

PHONE
316 / 624-7340

Formation Toronto Type Test Bottom Hole w/Sampler Date January 1, 1984
Anchor Length and Size 24' x 4 1/2" Total Depth 4191'
Packer Depths 4162' & 4167' Below Straddle _____
Equipment Run 2 Packers, Jars, Safety Joint, Circulating sub, Sample Chamber

Lengths: Tool 59' D. P. 3543' ID 3.8" Wt. P. _____ ID _____ D. C. 612' ID 2.25"
Mud Type Chemical Vis. 38 Wt. 9.2 Wtr. Loss 8.8 Cl. 4300 ppm

Recorders: Depth 4183' Make Kuster Cap. 6500 Ser. No. 10269 Inside
Depth 4189' Make Kuster Cap. 6450 Ser. No. 6064 Outside
Depth _____ Make _____ Cap. _____ Ser. No. _____ Below Straddle

Pressures:

Tool on Bottom @ <u>10:10 P</u> M.	Initial Hydrostatic <u>1950</u> psi
Initial Flow <u>32</u> Min.	IFP <u>59</u> psi to <u>127</u> psi
Initial Shut-In <u>58</u> Min.	ISIP <u>1199</u> psi
Final Flow <u>60</u> Min.	FFP <u>183</u> psi to <u>298</u> psi
Final Shut-In <u>120</u> Min.	FSIP <u>1192</u> psi
Tool off Bottom @ <u>2:40 A</u> M.	Final Hydrostatic <u>1950</u> psi Temp. <u>108</u>

Blow: Weak increasing to Fair on Initial & Final Flows.Recovery: 90' Watery Mud450' Saltwater

Top Sample 50,000 PPM CL
Middle Sample 125,000 PPM CL
Bottom Sample 127,000 PPM CL

Gas Flow:

Sampler Data:

Pressure 85 PSI
Gas .01 cu. ft.
Total Fluid _____ cc
Oil _____ cc
Water 1800 cc
Mud _____ cc
Oil Gravity _____ °F.
Gas/Oil Ratio _____

Remarks:

Made tool up; ran drill collars & 5 stands drill-pipe in hole; pipe filled up with mud; trip back out; lay down joint w/hole; trip out to tool to dump mud; trip to bottom.

132,000 PPM CL
Rw .09 ohms @ 60°

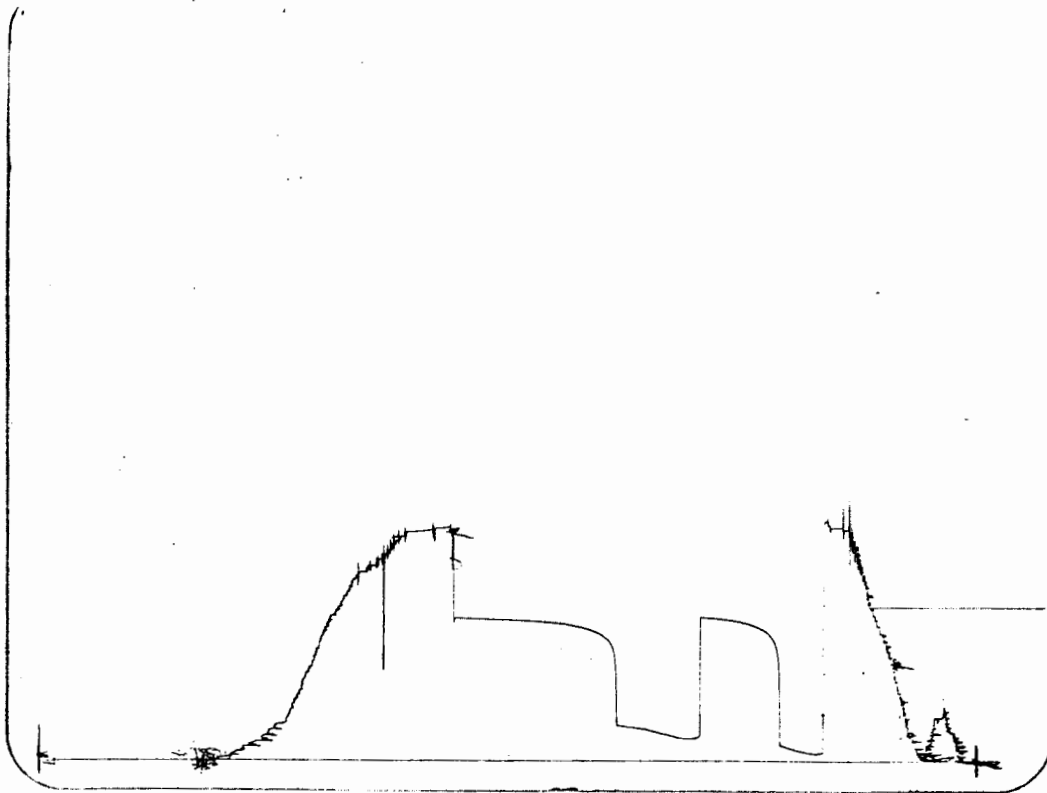
Tester R L Young Witnessed by: Billy Daugherty

Pressure Break Down

Test ticket no. 2423 Recorder no. 10269 Capacity 6500 Rec. Depth. 4183'

Initial Flow pressure <u>59</u> to <u>127</u>	Time	Given <u>30</u>	Computed <u>32</u>
Initial Closed in pressure <u>1199</u>		<u>60</u>	<u>58</u>
Final Flow pressure <u>183</u> to <u>298</u>		<u>60</u>	<u>60</u>
Final Closed-in pressure <u>1192</u>		<u>120</u>	<u>120</u>
Initial Hydrostatic pressure <u>1950</u>	Final Hydrostatic press.	<u>1950</u>	Temp <u>108</u>

Initial Flow Press.		Initial Closed in Press.		Final Flow Press		Final Closed in Press.	
Minutes	Press	Minutes	Press	Minutes	Press	Minutes	Press
0	59	0	127	0	183	0	298
5	59	3	977	5	183	3	947
10	68	6	1039	10	186	6	1006
15	78	9	1078	15	193	9	1039
20	91	12	1098	20	209	12	1062
25	108	15	1117	25	222	15	1075
30	127	18	1130	30	239	18	1091
32 35	127	21	1140	35	255	21	1104
40		24	1153	40	268	24	1114
45		27	1160	45	278	27	1120
50		30	1166	50	285	30	1127
55		33	1173	55	295	33	1137
60		36	1179	60	298	36	1140
65		39	1183	65		39	1150
70		42	1186	70		42	1153
75		45	1189	75		45	1153
80		48	1192	80		48	1160
85		51	1199	85		51	1160
90		54	1199	90		54	1163
95		57	1199	95		57	1166
100		58 60	1199	100		60	1166
105		63		105		63	1169
110		66		110		66	1169
115		69		115		69	1173
120		72		120		72	1176
		75		125		75	1176
		78		130		78	1179
		81		135		81	1179
		84		140		84	1179
		87		145		87	1179
		90		150		90	1183
		93		155		93	1183
		96		160		96	1186
		99		165		99	1186
		102		170		102	1186
		105		175		105	1186
		108		180		108	1189
		111				111	1189
		114				114	1189
		117				117	1192
		120				120	1192



Initial Hydrostatic _____ 1950 _____ psi
 IFP _____ 59 _____ psi to _____ 127 _____ psi
 ISIP _____ 1199 _____ psi
 FFP _____ 183 _____ psi to _____ 298 _____ psi
 FSIP _____ 1192 _____ psi
 Final Hydrostatic _____ 1950 _____ psi

