DST # 1 DST: Toronto to Lansing 'H' Zones
INTERVAL 3853'-3968'

Pressures: Time / Pressure
1. Initial Hydrostatics ... 2081 / 2125 lbs/sq in mud
2. Initial Flow: Start ... 0 / 52 lbs/sq in mud
3. Initial Flow: End ... 30 / 383 lbs/sq in mud
4. Initial Shut-in: End ... 60 / 1249 lbs/sq in mud
5. Final Flow: Start ... 0 / 383 lbs/sq in mud
6. Final Flow: End ... 60 / 737 lbs/sq in mud
7. Final Shut-in: End ... 90 / 1238 lbs/sq in mud
8. Final Hydrostatics ... / 1994 lbs/sq in mud

IHP: 1295
FHP: 1238 / 1994
CHLORIDES 62,000 ppm

RECOVERY
2081' Water in mud (61 bbls)
1249' Mud & Water (36 bbls)
383' Mud cut water (5 bbls)
737' Salt Water (10 bbls)
1238' Total Recovery
Blow Detail:
1st Flow: Strong blow throughout
2nd Flow: Strong blow throughout
Gas to Surface in 2 min.
Gauged 2.4 MCF/D
Gauged 2.4 MCF/D
Gauged 2.4 MCF/D

DST # 1
Interval 3805'-3968'
8791 Chart
Depth 3896'

DST # 2 DST: Lansing 'D' & 'E' Zones
INTERVAL 3962'-4002'

Pressures: Time / Pressure
1. Initial Hydrostatics ... 2053 / 1826 lbs/sq in mud (6 bbls)
2. Initial Flow: Start ... 0 / 26 lbs/sq in mud (Strong Blow)
3. Initial Flow: End ... 30 / 49 lbs/sq in mud (Strong Blow)
4. Initial Shut-in: End ... 60 / 1203 lbs/sq in mud (Strong Blow)
5. Final Flow: Start ... 0 / 42 lbs/sq in mud (Strong Blow)
6. Final Flow: End ... 60 / 737 lbs/sq in mud (Strong Blow)
7. Final Shut-in: End ... 90 / 1123 lbs/sq in mud
8. Final Hydrostatics ... / 2023 lbs/sq in mud

IHP: 1226
FHP:

RECOVERY
Blow Detail:
1st Flow: 2 min. to build to strong blow throughout
2nd Flow: 2 min. to build to strong blow throughout
Gas to Surface in 2 min.
Gauged 2.4 MCF/D
Gauged 2.4 MCF/D
Gauged 2.4 MCF/D

DST # 2
Interval 3962'-4002'
8791 Chart
Depth 3984'

DST # 3 DST: Lansing 'F' & 'G' Zones
INTERVAL 3996'-4032'

Pressures: Time / Pressure
1. Initial Hydrostatics ... 2030 / 1965 lbs/sq in mud (Drilling Mud)
2. Initial Flow: Start ... 0 / 86 lbs/sq in mud (Drilling Mud)
3. Initial Flow: End ... 30 / 129 lbs/sq in mud (Drilling Mud)
4. Initial Shut-in: End ... 60 / 1253 lbs/sq in mud (Drilling Mud)
5. Final Flow: Start ... 0 / 251 lbs/sq in mud
6. Final Flow: End ... 30 / 694 lbs/sq in mud (Salt Water)
7. Final Shut-in: End ... 60 / 1171 lbs/sq in mud (Salt Water)
8. Final Hydrostatics ... / 1982 lbs/sq in mud

IHP: 1369
FHP: 1171
2,000 ppm Chlorides

RECOVERY
Blow Detail:
1st Flow: Strong blow throughout
2nd Flow: Strong blow throughout
Gas to Surface in 2 min.
Gauged 2.4 MCF/D
Gauged 2.4 MCF/D
Gauged 2.4 MCF/D

DST # 3
Interval 3996'-4032'
8744 Chart
Depth 4017'

DST # 4 DST: Lansing 'H' & 'I' Zones
INTERVAL 4044'-4102'

Pressures: Time / Pressure
1. Initial Hydrostatics ... 2030 / 2027 lbs/sq in mud (Drilling Mud)
2. Initial Flow: Start ... 0 / 227 lbs/sq in mud
3. Initial Flow: End ... 30 / 906 lbs/sq in mud (Salt Water)
4. Initial Shut-in: End ... 60 / 1211 lbs/sq in mud (Salt Water)
5. Final Flow: Start ... 0 / 874 lbs/sq in mud
6. Final Flow: End ... 30 / 1187 lbs/sq in mud (Salt Water)
7. Final Shut-in: End ... 60 / 1288 lbs/sq in mud
8. Final Hydrostatics ... / 1981 lbs/sq in mud

IHP: 1317
FHP: 1187
24,000 ppm Chlorides

RECOVERY
227' Drilling mud
679' Salt Water
1187' Total Recovery
Blow Detail:
1st Flow: Strong blow throughout
2nd Flow: Strong blow throughout
Gas to Surface in 2 min.
Gauged 2.4 MCF/D
Gauged 2.4 MCF/D
Gauged 2.4 MCF/D

DST # 4
Interval 4044'-4102'
8366 Chart
Depth 4047'

ROBERT STOLTZ
PETROLEUM GEOLOGIST
WICHITA, KANSAS