EHRENS PETROLEUM CORPORATION Phone (503) 399-8882

3577 Silverstone Dr. N.E.
Salem, Oregon 97303

DRILLING LOG - LONGVIEW #2 - OCTOBER 10, 1980:

0-25'	9:30 A.M.	Clay with brown rock, some brown sand.
25-75		Gray shales with small zones of mudstone and sandstone. Thin bed of stained sandstone at 40 feet. Show of iridescence at 70 feet.
75-105		Gray shale - greenish at 90 feet.
105-120		Gray sandstone - fine grained. Thin shale interbeds. Trace of gas near 120 feet.
120-150		Alternating beds of mudstone and shale. Gas activity in ditch. Oil show at 145 feet.
150-200		Dark gray sandstones shading toward white at 200 feet. Water at 180 feet. Increasing with depth. Oil show at 200 feet.
200-250		Pyrite at 215 feet. Light gray to white sandstone loose sand at 200-230 feet. Water flowing at 20 gallons per minute at 230 feet.
250-280		Brown sandstone. Strong gas show at 270-280 feet.
280-310		Gray mudstone with some sand. Good oil show at 300 feet.
310-350		Light gray sandstone. Strong oil shows at 315 feet and 345 feet. Gas show at 330-340 feet.
350-400		Thin alternating sandstones and mudstones. Oil show at 395 feet to 400 feet.
400-480		Alternating beds of gray and brown sandstone.
480-650		Sandstone and mudstone alternating beds. Oil shows from 480 to 520 feet.
650-700		Show of oil at 680 feet.
700-750		Show of oil at 730 feet. Glauconite forams. Pea gravel zone at 750 feet.
750-786		Show of oil at 760 feet. Strong show of oil at 780 feet. Loosing mud.

THURSDAY, NOVEMBER 6, 1980:

787	Fine, softer, higher percent of silt and clay (BR 15%) GR 85%. Losing mud bubbles continues in pit.

THURSDAY, NOVEMBER 6, 1980 CON'T:

790		Lossing mud, went for water - gray silt and clay, little sand apperance of mud, flat sediment, is oil show.
794		(Blue gray "clay") silty mudstone.
795		Very good oil show.
803		Harder (sample same) twin pencil oil show.
810		Softer 30 Br (Mud-VFSS) show oil.
815		Gas in pit. TR
820		(Rig Tugalin) very fine grained.
822		(Rig Tugalin) 80% limy, hard gray tigh SS strong blue florescence. Gray green tigh FGSS.
826		(Same) Lighter color 1 (20% Br muddy SS).
827		Oil show
830		Softer shaley SS.
835		Limey SS and shaley SS gray green.
837	9:31 P.M.	T gas
840	9:40 P.M.	50% limey SS 50% shaley sd.
841	9:45 P.M.	Good strong show DK.
850	10:35 P.M.	Gray silty mudstone intermittent oil show.
851		Good oil show.
855	11:30 P.M.	Gray sandy silt, good oil show continuous from 850' three (3) pencil widths, strong gas show.
860		Gray sandy silty shale - excellent oil show. Best up to this depth. Continuous from 850 feet.

FRIDAY, NOVEMBER 7, 1980:

865	12:20 A.M.	Steady stream of oil down both sides, spreading full width every few seconds. Best show yet. Strong gas included.

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3577 Silverstone Dr. N.E.
Salem, Oregon 97303

FRIDAY, NOVEMBER 7, 1980 CON'T:

870	1:00 A.M.	Lost oil, gray silty mudstone, continuous, chips of limestone - possibly thin beds or lenses.
878	2:10 A.M.	Oil show intermittently heavy at times.
880	2:30 A.M.	Gray clayey silt, little san, small show of oil.
	3:15 A.M.	Going down faster.
885	3:15 A.M.	Clay, silt and fine sand.
890	4:00 A.M.	Clayey, silty sand, gray with small amount of Br SS. Slight show of oil. Some white florescence in sample.
900	5:20 A.M.	Gray clayey siltstone. Florescence in pan sample.
910	7:20 A.M.	Gray sandy silt, some oil.
915	8:04 A.M.	
920	8:15 A.M.	Very fine G sand, silts and shale.
925		Intermittent brown V F Sd with stain. Light gray, gray F sandstone. Some shale.
930		Light gray to limey florescence. Brown 30.
940	12:00 P.M.	No show? Oil iridescence Wt sdy TG.
943	1:20 P.M.	Stopped drilling and circulation working with mud.
943	1:20 P.M.	Started drilling with C16 (emulsifies oil).
947		(Kelly dancing)

950	1:45 P.M.	Circulation time 25 minutes. Brown and gray SS (mainly sand). Four (4) sh (oil emulsions).
960	3:30 P.M.	Brown and gray SS.
970	4:00 P.M.	Brown and gray SS.
975	4:20 P.M.	Three (3) st oil discharge heavy iyn (?) on mud pond.
980	6:30 P.M.	Same as previous sample.
990	6:50 P.M.	Silt and fine sand, more gray.

EHRENS PETROLEUM CORPORATION Phone (503) 399-8882

3577 Silverstone Dr. N.E.
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FRIDAY, NOVEMBER 7, 1980, CON'T:

994	7:20 P.M.	Change in sediments to coarser gray sands. Has gas bubbles (possible gas show) still has oil streaks on surface.
1000	7:30 P.M.	Strong gas show, continuous oil show. Propose circulation. Three (3) broad streaks on discharge for 20' then remove four (4) stems 100 feet. Coarser gray sands, some brown.
1000	7:30 P.M.	Circulating continues to bring up gas and very light oil, swirls cover discharge screen and ditch.

MONDAY, NOVEMBER 10, 1980:

1010		Dark gray "brittle" shale. Continuous show of gas and oil in "mud", small % brown intermix.
1020		Dark gray "brittle" shale, small % brown, gas and oil show (intermix)
1030	10:55 A.M.	Gray shaley silty sand, continuous oil and gas show. HBP7000.
	11:15 A.M.	Mud 9.2. RP1500.
1040	11:40 A.M.	Gray shaley silty sand, higher % coarse sand. Slight increase in oil - gas same as before. Higher % of brown. HBP6000, RP1500.
1046	12:25 P.M.	Three (3) streams perside three (3) fingers wide per stream and spreading full width every few seconds. Strong gas show.

1047		Oil show almost fully across outlet onto screen. Gas still same.
1050	12:45 P.M.	Drill dancing - gray interbedded indurated siltstone and SS. Some brown sandstone. Oil and gas about the same as above. HBP6500, RP1500.
1050		(Circulating mud) Oil show very dark and heavy at times. Gas same as above, florescence.
	1:10 P.M.	Mud - 9.2 pounds.
1057		Strong show of gas bubbles and oil in mud ditch. Iridescence on mud reservoir.

EHRENS PETROLEUM CORPORATION Phone (503) 399-8882

3577 Silverstone Dr. N.E.
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MONDAY, NOVEMBER 10, 1980, CON'T:

1060	2:15 P.M.	Gray shale and silt, small amount of fine sand. Continuous gas show and oil show. Some brown. Strong iridescence on pond. HBP7000, RP1500.
	3:15 P.M.	Approximately one (1) inch drop in mud in pond in last hour. Started losing mud prior to that.
1070	4:00 P.M.	Light tuffaceous shales, some brown SS. Round gray to black streaking in discharge. HBP4000, RP1700.
	4:45 P.M.	33 sec, 9.4 #mud.
1080	5:20 P.M.	Light tuff shales, white, black, brown sands. Slight show. HBP6000, RP1500.
1090	6:15 P.M.	Light gray tuffaceous shales. Siltstone and sandstones. Slight to no show, tight formation, few florescent cuttings. Temperature checked. Mud coming up hole by the steel. HBP6000, RP1500.
	6:20 P.M.	65 Degrees.
	6:30 P.M.	HBP5000, RP1700 - 2000, bouncing.
1100	6:50 P.M.	Gray tuffaceous shales. No show on oil, small gas show. Tight formations. HBP5000, RP1700 - 2000.

TUESDAY, NOVEMBER 11, 1980:

	8:10 A.M.	Changing mud, last foot or two, 1098-1099, indurated dark gray to black mudstone. Some show of oil and gas. Pulled steel, bit shot.
	7:30 P.M.	Down hole, new bit.

1100	9:30 P.M.	Started drilling. Mud 9.1, 37 sec.
1101	10:25 P.M.	Oil and gas show, hard and slow drilling some white and brown sand.
1102	1:00 A.M.	Pump failure.

WEDNESDAY, NOVEMBER 12, 1980:

	8:00 A.M.	Put pump back together.
	8:30 A.M.	Adding CC16 to mud and 26 torque trim.

3577 Silverstone Dr. N.E.
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WEDNESDAY, NOVEMBER 12, 1980, CON'T:

	8:45 A.M.	Drilling (HBP4000#, RP2500#). VF sand and silt, (30 mi circulation time).
1105	9:30 A.M.	Gray shale, sand and silt interbeds T(%).
1107	10:05 A.M.	30 " " 30 Br SS, 30 Light gray silt.
1110	11:20 A.M.	Same (35 min. cyc). T(%).
1113	12:40 A.M.	Change
1120	1:00 P.M.	Some gray shale wt sd and ss br ss. Show (%).
1125	1:25 P.M.	33 sec, 9# mud.
1127	2:35 P.M.	Loosing H2O, florescence
1129	3:40 P.M.	0 HBP.
1130	3:55 P.M.	HBP4000 (RP1250). Florescence, light gray siltstone, hard brittle gray shale and SS, brown SS.
1140	6:15 P.M.	HBP2000 (RP2000). Light gray, brown M-C grain sandstone some shale and siltstone forms. Show (%), strong blue and brown florescence.
	6:50 P.M.	Pump trouble, oil in mud pond.
	7:05 P.M.	Drilling, better and better.
1145	7:50 P.M.	Pump trouble, drill acts like thin layers 4"-6"
	7:58 P.M.	Drilling, mud 8.6, 30 sec (very strong show), very poor cutting return (due to mud?) two (2) bags quick gell.
1149	9:50 P.M.	Pump trouble.
	9:55 P.M.	Drilling

1150	10:10 P.M.	Poor return, circulating. Florescence, blues, greens, browns. Gray shale and SS hard chips of siltstone and mudstone, light gray.
	10:30 P.M.	Pump trouble
	10:45 P.M.	Drilling
	11:55 P.M.	Pump trouble

EHRENS PETROLEUM CORPORATION Phone (503) 399-8882

3577 Silverstone Dr. N.E.
Salem, Oregon 97303

THURSDAY, NOVEMBER 13, 1980:

1155	12:00 A.M.	Poor cutting return, mixing more mud.
	12:25 A.M.	Drilling RP3000-3250, HBPO. Mud return approximately 35 minutes. Strong florescence. Better cutting return. Some gas bubbles in cuttings, gray and black.
1158	1:05 A.M.	Mixing more mud, cuttings not coming.
	1:20 A.M.	Drilling mud 9.0, 33 sec. Gas bubbles, show of oil. Possible change in formation. Rod thinks its softer and more open.
1160	1:55 A.M.	Small return on screen. Shale and silt size. Mud pit stabilized. Gas bubbles gray and oil show. Some brown particles. Brown and green florescence with blue white particles.
1162		Black hard chips and sand size rounded particles. Green florescence
1164	2:45 A.M.	Gray, black slatey chips, some rounded sand and silt grains. Mud surrounding chips has brownish-green florescence. Formation may be fractured ("driller").
1170	4:30 A.M.	Same as above, driller (Rod) says formation deep fractured from 1168' to 1171'. Drilling good, good cutting return, slight oil and gas show, slight green to brown florescence.
1175	6:20 A.M.	Add stem, mud 9.3.
1176.5	7:15 A.M.	Broken or fractured. Drill hanging up and jerking.
1178	8:30 A.M.	T(%), jerking more pronounced.
1179	10:00 A.M.	Stopped to clean pit. Rebuilt pit.
	11:10 A.M.	Drilling, Dark gray shale hard.
	11:25 A.M.	Stopped drilling to go get H20.

	12:35 P.M.	Started drilling. Hard (FG brown sd, (20)). Black platy shale, light gray sandstone (20).
1180	1:10 P.M.	Trace of gas.
1182	2:10 P.M.	Gray-black fossilifious shale. Platy

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THURSDAY, NOVEMBER 13, 1980, CON'T:

1183	2:20 P.M.	(Show oil). Formation change (easy drilling), tan silty sand, taking water.
1184	2:30 P.M.	Sands going thru screen (plenty black shale, some brown sand, fossiliforous).
1185	2:42 P.M.	Test florescence.
1190	3:15 P.M.	Same
	3:30 P.M.	Out of water
	4:40 P.M.	Drilling, dark SS, tan siltstone, gray shale
1192		Losing H_2O, gas show, oil show, gray shale, pulled out.

FRIDAY, NOVEMBER 14, 1980:

1190	6:20 P.M.	New bit, near bottom (1190)
	6:30 P.M.	Started drilling.
1195	7:00 P.M.	Mud 8.8#, 30 sec, 65 degrees, losing H_2O. Gas and oil show.
1198.5	7:15 P.M.	Florescence 93, 94, and 95. 8.4#, 30 sec
1200	7:50 P.M.	Sandstone, shale, Florescence. Oil and gas show.
	8:08 P.M.	Add stem.
	8:15 P.M.	Drilling, rotation 2000 OHPO, oil in pit.
	9:30 P.M.	Rotation 2000 5000, mud 31 sec, 818#.
1208	10:30 P.M.	Gray sand and shale, some brown florescence. More oil on surface of mud pit.
	11:15 P.M.	Mud 8.6, 30 sec.

1210	11:25 P.M.	Oily gray sandstone, siltstone, and shale, some brown particles. Oil and gas show. Overall florescent. Particles of blue, green and white florescence. Heavy show of florescent particles, not all seashell.
	11:50 P.M.	Drilling faster.
1211-1212		Dropping faster, may be softer brown layer.

3577 Silverstone Dr. N.E.
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SATURDAY, NOVEMBER 15, 1980:

	12:35 A.M.	More oil on surface of mud pit
	1:20 A.M.	Mud 8.6, 28 sec.
1220	2:00 A.M.	Gray sandy siltstone, small amount of shale and brown sandstone, gas show.
1225	4:30 A.M.	Same, add stem, drilling.
	4:35 A.M.	Mud 8.6, 30 sec.
1230	6:00 A.M.	Sandstone and siltstone, gray, small amount of brown. Gas in cuttings.
	7:20 A.M.	Pump trouble.
	7:30 A.M.	Checked oil and filled generator tank.
	7:45 A.M.	Drilling, iridescence on pond and pit.
1240	9:40 A.M.	Sandstone and siltstone, gray TG26, 70.
1242	10:23 A.M.	Mud 29.5, sec 8.7.
1243	10:50 A.M.	Cutting coming back as fine sand.
1245	11:25 A.M.	
147	12:10 P.M.	Mud 32, sec 8.6. F SS.
	Break	
1248	1:20 P.M.	Mud 30 sec, 8.6. Gray shale, gray SS, fossifferous flourescence brown SS. OHB, ODP, 2500 RP.
1250	1:45 P.M.	Gray and brown SS, gray shale.
	2:30 P.M.	Down for H20, minor repairs.
1256	8:00	HBP13,000, RPI, 300. Cutting coming up sand c-f size.
	8:15	Shut down

FRIDAY, NOVEMBER 21, 1980:

	8:05	Start mud 30 sec, 8.5#. Yellow and brown florescence. Gray and brown SS. Iridescent surface of mud return ditch flourescence red-brown.

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3577 Silverstone Dr. N.E.
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FRIDAY, NOVEMBER 21, 1980, CON'T:

	9:45 A.M.	29 sec, 8.65 mud.
	10:00 A.M.	30 sec, 8.1 mud.
1260	10:20 A.M.	Fine - M grain, gray and brown SS, playty shale (green) clay. Forams glouconite.
	10:55 A.M.	30 sec, 8.6 mud.
	12:20 P.M.	Light gray and white sandstone, brown SS. Brown and some green florescence.
1265	12:30 P.M.	Shut down

SATURDAY, NOVEMBER 22, 1980:

	9:10 A.M.	Mud mixed, drilling started. 32 sec, 8.6 mud. 52-54 degrees. (30 minute cycle).
1270	10:00 A.M.	Brown sandstone, gray shale, some mudstone.
1271	10:10 A.M.	Predominatly brown sandstone, slight gas show (sampled).
1272		Gray shale
1273	11:00 A.M.	Brown SS and gray shale, gas show. Mud 8.4, 37 sec.
1273	12:00 P.M.	Brown sandstone, coarser, very strong gas show. Mud 8.6, 40 sec. Glowconite.
1277	1:40 P.M.	Slight trace of oil and gas.
1277	1:50 P.M.	Lost circulation
1278	2:00 P.M.	Mud 8.5, 35 sec. Temperature 57 degrees. Fine gray sandstone.
	2:25 P.M.	Fourty seven (47) minutes of circulation, walnut shells.
1278	3:00 P.M.	57 degrees, circulating.

3:20 P.M.	58 degrees.
3:25 P.M.	57 degrees, drilling.

SUNDAY, NOVEMBER 23, 1980:

11:05 A.M.	Temperature 48 degrees, mud 8.5, 33 sec. Circulating temperature 54 degrees, drilling.

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3577 Silverstone Dr. N.E.
Salem, Oregon 97303

SUNDAY, NOVEMBER 23, 1980, CON'T:

1279	11:40 A.M.	Mud 8.6, 30 sec.
1280	12:30 P.M.	Gray and brown sandstone, gray shale.
	1:00 P.M.	Mud 8.5, 37 sec. Temperature 57 degrees.
	1:10 P.M.	Mud 8.4, 37 sec.
		Pulled steel.
	11:20 P.M.	Mud 8.5, 33 sec. Circulating.
1290	11:25 P.M.	Gray and brown SS, gray shale.
1300	11:40 P.M.	Brown and gray SS, some gray shale.
	11:50 P.M.	Mud 8.6, 32 sec.
1301		Gray shale some brown sand in cuttings, iridescent bubbles in cuttings.

MONDAY, NOVEMBER 24, 1980:

	12:30 A.M.	Mud 8.6, 34 sec. Brown glob in cutting, florescence green.
	1:05 A.M.	Fifty (50) minute return. Mud 8.5, 34 sec.
1310	3:30 A.M.	Fifty-seven (57) degrees, gray shale.
1320	5:10 A.M.	Change of formation, green shale and sandstone.
1330	5:35 A.M.	Gray shale with some sand and silt.
1340	6:10 A.M.	Twenty-five (25) feet in 50 minutes.

	6:20 A.M.	Mud 8.7, 32 sec. Temperature 55 degrees. Gray shale sand and silt.
	7:05 A.M.	Mud 8.6, 30 sec.
	7:20 A.M.	Drilling
1350	7:45 A.M.	Gray shale some sand and silts.
1360	8:35 A.M.	Gray shale, (for change) with sandstone, circulation.

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3577 Silverstone Dr. N.E.
Salem, Oregon 97303

MONDAY, NOVEMBER 24, 1980 CON'T:

	9:15 A.M.	Out of fuel.
	10:05 A.M.	New stem, drilling.
1370	10:25 A.M.	Gray shale. VFG gray sandstone, trace oil.
1380	10:50 A.M.	Same and Brown SS, trace of oil.
1390	11:45 A.M.	Same
1395	12:24 P.M.	Gray shale, firm.
1399	1:10 P.M.	Gray shale, firm. Trace of oil, (25 minute back).
1400	1:20 P.M.	Gray shale, firm. Trace of oil.
	1:40 P.M.	New stem.
1410	2:00 P.M.	Firm dark gray shale.
1420	2:25 P.M.	Dark gray shale.
1425		Dark gray shale.
1430	3:15 P.M.	Gray shale, trace of oil.
1440	4:00 P.M.	Gray shale, trace of oil.
1450	4:30 P.M.	Gray shale.
1460	5:20 P.M.	Gray shale, trace of oil.
1465	5:54 P.M.	

1470	6:22 P.M.	Gray shale.
1480	7:08 P.M.	Gray siltstone, slight florescence.
	7:55 P.M.	Mud 8.9, 39 sec.
1490		Gray silty shale, some sand size grains.
1495	8:35 P.M.	Gray siltstone, trace of oil, sample on tray. Florescence green to brown, squeeze in hand florescence red-brown.
1495		Spatula dipped on surface of mud pond, florescence maroon.

EHRENS PETROLEUM CORPORATION

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TUESDAY, NOVEMBER 25, 1980:

1500	1:05 A.M.	Gray shale and siltstone.
1510	1:40 A.M.	
	2:15 A.M.	Gray siltstone, some sand size grains. Green and brown florescence. 49 minute return.
1520	2:55 A.M.	Gray siltstone and sandstone, one brown pea gravel size basalt fragment.
1525	3:20 A.M.	
	3:55 A.M.	Gray shale and silt, fine sand. Oil and gas, fair oil show, some gas.
1530	4:10 A.M.	Gray siltstone, sandstone.
1540	5:05 A.M.	Gray shale, sandstone, 57 degrees, green florescence.
1550	6:00 A.M.	Gray shale, siltstone.
	6:00 A.M.	62 degrees.
	6:25 A.M.	58 degrees.
	6:35 A.M.	59 degrees.

1555	6:35 A.M.	Mud off, temperature 49 degrees.
	6:40 A.M.	60 degrees.
	6:50 A.M.	60 degrees.
1560	7:05 A.M.	61 degrees, gray shale, some silt and sandstone.
	7:20 A.M.	62 degrees.
1570	7:30 A.M.	60 degrees, gray shale some silt and sandstones.
	8:30 A.M.	Circulating
1580	8:50 A.M.	Gray shale and siltstone, some sandstone, trace of oil.
1585	9:09 A.M.	Circulation
1590	9:32 A.M.	Gray siltstone and shale, some sandstone.
1595	9:44 A.M.	

EHRENS PETROLEUM CORPORATION Phone (503) 399-8882

3577 Silverstone Dr. N.E.
Salem, Oregon 97303

TUESDAY, NOVEMBER 25, 1980, CON'T:

1600	10:02 A.M.	Dark gray shale.
1610	10:45 A.M.	Dark gray siltstone and shale.
1615	11:00 A.M.	
1620	11:30 A.M.	Gray shale.
1630	12:04 P.M.	Gray shale.

MONDAY, DECEMBER 1, 1980:

	7:30 A.M.	Started drilling. Mud time 37., started circulating at 6.56. Temperature outside 42 degrees, hole temperature 50 degrees. Didn't lose any hole over the Thanksgiving weekend.
	7:46 A.M.	Mud time (41), mud weight 9. P.H. is blue, temperature is 52 degrees.
1670	8:00 A.M.	Gray shale and silts tone. Blue agr. florescence.
	8:30 A.M.	Stopped to weld table on drill rig and take couplings to town to get them welded, for use on the 20 foot drill stem.
	12:15 P.M.	Started circulating mud off and on. Working on drill, burning extra room in table around stem.
1670	12:54 P.M.	Started drilling, mud 8.9, 37 sec, temperature 58 degrees.
	1:15 P.M.	59 degrees, gas bubbles, some brown shale and sand in gray.
1680	1:25 P.M.	Gray shale and siltstone, some brown. Gas bubbles some green florescence. (Some white to ble, probably contaminated). Gas in sample.
	1:30 P.M.	54 degrees.
1685		Some gas bubbles.
1690	2:00 P.M.	Gray shale, siltstone, high % of sandstone. Gas bubbles, oil show. Mud 8.8, 37 sec, gas bubbles in sample.
	2:20 P.M.	Drilling

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MONDAY, DECEMBER 1, 1980, CON'T:

1700	2:45 P.M.	Gray shale, siltstone small % sand size. Gas and oil show, gas bubbles in sample. Temperature 59 degrees
1710	3:20 P.M.	
	3:47 P.M.	Temperature 59 degrees, gray shale, siltstone, some as oil and gas show. Mud 9.1, 40 sec, some hard brittle cuttings, check zone with petro micr. Some green and brown florescence, some areas of blue. Drilling, 56 degrees.

1712		Oil and gas show.
	3:55 P.M.	56 degrees.
	4:00 P.M.	59 degrees.
1720	4:40 P.M.	Gray shale and siltstone, oil and gas show, gas bubbles in samples.
1730	5:10 P.M.	Temperature 55 degrees, gray shale, some sand and silt.
	5:40 P.M.	Temperature 59 degrees, some oil and gas.
	5:55 P.M.	Temperature 55 degrees.
1740	6:10 P.M.	Gray siltstone and sandstone, some shale. Gas and oil bubbles in cuttings.
1750	6:35 P.M.	Gray siltstone and sandstone.
	7:00 P.M.	Small amount of shale, strong gas.
1760	7:25 P.M.	Same
1770	8:25 P.M.	Gray siltstone and shale, some SS.
1773	8:34 P.M.	
1775		Some "Baked?" shale, some SS and siltstone.
1780	10:20 P.M.	Siltstone
1790	12:55 A.M.	Siltstone some SS.
1793	1:45 A.M.	Circulating
	2:25 A.M.	Drilling

EHRENS PETROLEUM CORPORATION Phone (503) 399-8882

3577 Silverstone Dr. N.E.
Salem, Oregon 97303

TUESDAY, DECEMBER 2, 1980:

1795		(Bit shot?), coming out.

FRIDAY, DECEMBER 5, 1980:

1800	5:15 A.M.	Gray sandstone, gas bubbles in cuttings. 58 degrees.
1802	5:25 A.M.	Silty with gas bubbles.
1805	5:35 A.M.	Gray siltstone. 58 degrees.

1810	5:50 A.M.	Silty sandstone, gray iridescent bubbles on screen. Bubbles in cuttings. Reddish brown florescence. 58 degrees.
1820	6:30 A.M.	Gray silty sandstone, gas bubbles on screen, gas bubbles in cuttings.
1825	7:05 A.M.	Circulating
	7:20 A.M.	Drilling 9.0, 36 sec., 59 degrees.
1830	9:30 A.M.	Hard gray brittle shale, gray oil show, silty sandstone.
1835	10:50 A.M.	
1840	11:08 A.M.	Gray shale, light gray sandstone.
1845	11:26 A.M.	
1850	11:52 A.M.	Gray shale and light gray silty sandstone, circulating.
	12:20 P.M.	Drilling
1860	12:50 P.M.	Gray shale and light gray silty sandstone.
1865	1:10 P.M.	Gas
1870	1:20 P.M.	Gray shale with brown SS, gas and oil show.
1875	1:50 P.M.	Gray shale, gas show.
1880	2:30 P.M.	Gray shale, gas show.
1888		Gray silty sandstone.
1890	2:58 P.M.	Gas
1897	3:30 P.M.	Sticky clay and light gray sandstone.

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FRIDAY, DECEMBER 5, 1980, CON'T:

	3:45 P.M.	Temperature 56 degrees.
1900	3:48 P.M.	Gray shale and silty sandstone (hard). Circulation.
	4:07 P.M.	Drilling

	4:40 P.M.	54 degrees.
1907	5:05 P.M.	62 degrees.
	5:15 P.M.	62 degrees.
1910	5:30 P.M.	Gray sandy siltstone, iridescence in bubbles in cuttings.
1915	5:55 P.M.	62 degrees, same as above.
1920	6:15 P.M.	62 degrees, gray shale and silty sandstone.
1925	7:15 P.M.	62 degrees, gray sand and siltstone.
	7:25 P.M.	63 degrees, changed drill stem, welded three (3) stems.
	8:00 P.M.	Gased both generators.
	8:55 P.M.	Drilling
1926	9:12 P.M.	Drilling, 60 degrees.
1928	9:23 P.M.	62 degrees.
1930	9:28 P.M.	
1933	9:40 P.M.	60 degrees.
1940	10:00 P.M.	62 degrees, gray silty sandstone.
1945	10:20 P.M.	62 degrees, same as above.
1950	10:45 P.M.	62 degrees, gray sandy siltstone.
	10:55 P.M.	New drill stem.
	11:10 P.M.	60 degrees.
1955	11:35 P.M.	61 degrees, same.
1960		62 degrees, gray silty sandstone, iridescent gas bubbles.

SATURDAY, DECEMBER 6, 1980:

1970	12:25 A.M.	61 degrees, gray silty sandstone, iridescent gas bubbles on screen and in cuttings.
1975	1:00 A.M.	58 degrees, same as above, iridescent bubbles.
	1:10 A.M.	New drill stem, drilling.
1980	1:35 A.M.	Gray sandy siltstone, 57 degrees.
1985		59 degrees.

1990	2:05 A.M.	Gray sandy siltstone, iridescent bubbles, gas bubbles in cuttings.
1995	2:20 A.M.	
2000	2:45 A.M.	Gray sandy siltstone, 60 degrees.