

WELL HISTORY REPORT

SHELL PEEL R YT H-59

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SHELL PEEL R YT H-59
SHELL CANADA LIMITED

APRIL 25, 1967

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SECTION I SUMMARY OF WELL DATA

1.

- (a) Well Name and Number
Shell Peol R YT H-59
- (b) Permitter
Shell Canada Limited
- (c) Name of Operator
Shell Canada Limited
P. O. Box 186
Edmonton, Alberta
- (d) Location
Unit H, Section 59, Grid: 66° 40' 134° 30'
Latitude: 66° 38' 17.878" N
Longitude: 134° 39' 33.055" W
- (e) Permit Number
3611
- (f) Drilling Contractor
Regent Drilling Company
Rig No. 11 - Rotary
- (g) Drilling Authority
Drilling Authority No. 266
Issued March 6, 1967
- (h) Classification
Wildcat
- (i) Elevations
Ground Elevation: 97'
KB Elevation: 109.5
- (j) Spudded
March 11, 1967
- (k) Completed Drilling
March 30, 1967
- (l) Total Depth and Plugged Back Total Depth
T.D. 2504 (Driller)
PBTD: Surface
- (m) Well Status
Dry and abandoned
- (n) Rig Released
April 1, 1967

(o) Hole Size

- 24" to 32.5' KB
- 17 1/2" to 428 KB
- 9 7/8" to 1000' KB
- 6 3/4" to 2504' KB

(p) Casing

- 20" Conductor pipe set at 32.5' KB
- 13 3/8" 61# J-55 casing set at 421.93' KB

SECTION II GEOLOGICAL SUMMARY

3.

(a) Formation Tops

<u>Formation</u>	<u>Depth</u>
Lower Cretaceous	Surface
Mississippian	960 (-850)

(b) Cores

(i) Conventional Cores

<u>Core No.</u>	<u>Interval</u>	<u>Recovery</u>	<u>Formation</u>	<u>Remarks</u>
1	1899-1929	29.3'	Mississippian	Conventional 2" core

<u>From</u>	<u>To</u>	<u>Coring Time (min/ft)</u>	<u>Description</u>
1899	1900	36	
1900	1901	20	
1901	1902	8	
1902	1903	14	Refer to sample description
1903	1904	16	
1904	1905	12	
1905	1906	12	
1906	1907	13	
1907	1908	14	
1908	1909	15	
1909	1910	15	
1910	1911	13	
1911	1912	10	
1912	1913	10	
1913	1914	9	
1914	1915	8	
1915	1916	11	
1916	1917	10	
1917	1918	9	
1918	1919	9	
1919	1920	8	
1920	1921	9	
1921	1922	11	
1922	1923	12	
1923	1924	11	
1924	1925	9	
1925	1926	10	
1926	1927	10	
1927	1928	9	
1928	1929	10	

(ii) Sidewall Cores

Recovered 23 of 24 sidewall cores

<u>Depth (ft)</u>	<u>Lithology</u>	<u>Formation</u>
606	shale	Cretaceous
752	shale	
811	shale	
847	shale	
897	shale	
947	shale	
1011	shale	Mississippian
1109	not recovered	
1200	shale	
1297	shale	
1332	shale	
1420	shale	
1477	shale	
1525	shale	
1604	shale	
1709	shale	
1791	shale	
1946	silt	
2006	shale	
2110	shale	
2200	shale	
2235	shale	
2393	shale	
2462	shale	

(c) Sample Descriptions

0 - 430'		No Samples (Mud, pebbles and shale recovered from this interval. May be river deposits).
430' - 440'	Shale	Medium to dark grey, 20-30% siltstone content. Very poor samples.
440' - 640'	Shale	Medium to dark grey, 20-30% siltstone content. Very poor samples. 620-30: contains ironstone band or nodules.
640' - 650'	Shale	Medium to dark grey to brown-grey. 25% siltstone content.
650' - 656'	Shale	Medium to dark grey, 15% siltstone content.
656' - 660'	Ironstone	Buff.
660' - 668'	Shale	Medium to dark grey, 5% siltstone content.
668' - 670'	Ironstone	Buff.
670' - 676'	Shale	Medium to dark grey, 5% siltstone content.
676' - 680'	Ironstone	Buff.
680' - 690'	Shale	Medium to dark grey, 15% siltstone content, pyritic.
690' - 694'	Shale	Brown-grey, 5% siltstone content.
694' - 696'	Shale	Medium to dark grey, 25% siltstone content.

696' - 702'	Shale	Brown grey, 5% siltstone content.
702' - 708'	Shale	Medium to dark grey, 30% siltstone content.
708' - 710'	Ironstone	Buff.
710' - 720'	Shale	Medium grey to medium dark grey, 40% siltstone content.
720' - 728'	Siltstone-Shale	Medium grey to medium dark grey. 50% siltstone and 50% shale.
728' - 730'	Sandstone	Light grey-rust, lithic, very fine to medium grained, trace of shale and dolomite.
730' - 738'	Siltstone	Medium to dark grey, 10-20% argillaceous content, lithic, glauconitic.
738' - 740'	Sandstone	Light grey, lithic, very fine to medium grained.
740' - 750'	Siltstone	Medium grey to medium dark grey. 30% shale, glauconitic, pyritic, lithic.
750' - 760'	Shale	Medium to dark grey, 30% siltstone content.
760' - 770'	Siltstone-Shale	Medium to dark grey, 30-70% siltstone, 70-30% shale. Pyritic, also includes band of ironstone.
770' - 780'	Siltstone-Shale	Medium to dark grey. 30-70% siltstone, 70-30% shale.
780' - 790'	Siltstone-Shale	Medium to dark grey, 50% lithic siltstone, 50% shale, pyritic.
790' - 800'	Siltstone-Shale	Medium to dark grey, 30-70% lithic siltstone, 70-30% shale, micaceous.
800' - 810'	Siltstone-Shale	Medium to dark grey, 50-70% lithic siltstone, 50-30% shale, pyritic, micaceous.

810' - 820'	Siltstone-Shale	Medium to dark grey, 50% lithic siltstone and 50% shale, pyritic.
820' - 828'	Siltstone-Shale	Medium to dark grey, 30-70% lithic siltstone, 70-30% shale, pyritic.
828' - 830'	Sandstone	Medium to dark grey, lithic, very fine to fine grained.
830' - 838'	Siltstone-Shale	Medium to dark grey, 30-70% lithic siltstone, 70-30% shale, pyritic and micaceous.
838' - 840'	Sandstone	Medium to dark grey, lithic, very fine to medium grained.
840' - 844'	Siltstone-Shale	Medium to dark grey, 30-70% lithic siltstone, 70-30% shale, pyritic.
844' - 848'	Siltstone	Medium to dark grey, lithic, 20% argillaceous content.
848' - 850'	Sandstone	White, lithic, fine to coarse grained.
850' - 860'	Siltstone-Shale	Medium to dark grey, 50% lithic siltstone, 50% shale, pyritic.
860' - 866'	Siltstone-Shale	Medium to dark grey, 50-80% siltstone, lithic. 50-20% shale.
866' - 868'	Sandstone	Medium grey, lithic, very fine to medium grained.
868' - 870'	Sandstone	Light grey, lithic, very fine to coarse grained.
870' - 888'	Siltstone	Medium to dark grey, lithic, minor sandstone chips, 20% argillaceous content, pyritic.
888' - 890'	Sandstone	Light grey, lithic, very fine to medium grained.
890' - 900'	Siltstone-Shale	Medium to dark grey, 50% lithic siltstone and 50% shale, micaceous.

900' - 908'	Siltstone-Shale	Medium to dark grey, 20-80% lithic siltstone, 80-20% shale, pyritic.
908' - 910'	Sandstone	Light grey, lithic, very fine to medium grained.
910' - 918'	Siltstone-Shale	Medium to dark grey, 20-80% lithic siltstone, 80-20% shale.
918' - 920'	Sandstone	Light grey, lithic, very fine to medium grained.
920' - 930'	Siltstone-Shale	Medium to dark grey, 20-80% lithic siltstone, 80-20% shale.
930' - 940'	Siltstone-Shale	Medium to dark grey, 20-80% lithic siltstone, 80-20% shale.
940' - 948'	Shale	Medium to dark grey, 30% siltstone content, pyritic.
948' - 950'	Sandstone	Light grey, lithic, very fine to medium grained.
950' - 960'	Siltstone-Shale	Medium to dark grey, 50% lithic siltstone, 50% shale, pyritic.
960' - 968'	Siltstone	Medium grey, interbedded quartzitic and shaly siltstone to sandstone. 30% argillaceous content, pyritic.
968' - 970'	Sandstone	Brown grey, lithic, very fine to medium grained.
970' - 978'	Siltstone-Shale	Medium to dark grey, 50% lithic siltstone and 50% shale.
978' - 980'	Sandstone	Light grey-brown, very fine to medium grained.
980' - 988'	Siltstone	Medium to dark grey, C-trace of argillaceous content.
988' - 990'	Siltstone-Sandstone	Light brown-grey, lithic siltstone to fine grained sandstone.
990' - 998'	Siltstone	Medium grey, lithic, 20% argillaceous content, pyritic.

998' - 1000'	Siltstone-Sandstone	Light brown-grey, lithic siltstone to fine grained sandstone.
1000' - 1015'	Shale	Medium to dark grey, micaceous, 30% siltstone content.
1015' - 1020'	Siltstone	Medium to dark grey, 30% argillaceous content, micaceous. Siltstone is lithic.
1020' - 1025'	Shale	Medium to dark grey, 30% lithic siltstone content, micaceous.
1025' - 1030'	Siltstone	Medium to dark grey, lithic, 30% argillaceous content, micaceous.
1030' - 1033'	Shale	Medium to dark grey, 30% lithic siltstone content, micaceous and pyritic.
1033' - 1036'	Siltstone	Medium grey to medium dark grey, 30% argillaceous content, pyritic, siltstone is lithic.
1036' - 1040'	Siltstone-Sandstone	Medium grey to medium dark grey, lithic siltstone to very fine grained sandstone, 20% argillaceous content, pyritic.
1040' - 1043'	Shale	Medium to dark grey, 30% lithic siltstone content, micaceous and pyritic.
1043' - 1046'	Siltstone	Medium grey to medium dark grey, lithic with 30% argillaceous content, pyritic,
1046' - 1050'	Siltstone-Sandstone	Medium grey to medium dark grey, lithic siltstone to very fine grained sandstone, 20% argillaceous content, pyritic.
1050' - 1055'	Shale	Medium to dark grey, micaceous and pyritic with 30% siltstone content.
1055' - 1060'	Siltstone	Medium to dark grey, 30% argillaceous content, micaceous and pyritic.

1060' - 1120'	Shale	Medium to dark grey, trace to 20% lithic siltstone content, micaceous. 1100-10: trace of ironstone.
1120' - 1130'	Shale	Medium to dark grey, 20% siltstone content, micaceous.
1130' - 1150'	Shale	Medium to dark grey, trace of lithic siltstone content, micaceous and pyritic.
1150' - 1160'	Shale	Medium to dark grey, trace to 20% lithic siltstone content, micaceous.
1160' - 1176'	Shale	Medium to dark grey, trace of lithic siltstone content, micaceous, trace of ironstone.
1176' - 1180'	Shale	Medium to dark grey, 30% lithic siltstone content, micaceous.
1180' - 1184'	Shale	Medium to dark grey, trace of lithic siltstone content, pyritic and micaceous.
1184' - 1188'	Siltstone-Shale	Medium to dark grey, 50% lithic siltstone and 50% shale, micaceous.
1188' - 1190'	Sandstone	Light grey, quartzitic, fine to medium grained.
1190' - 1204'	Shale	Medium to dark grey, trace to 30% lithic siltstone content, micaceous.
1204' - 1212'	Siltstone-Sandstone	Medium to light grey, siltstone to coarse grained sandstone, 50% lithic.
1212' - 1230'	Shale	Medium to dark grey, 20% siltstone content, micaceous.
1230' - 1232'	Sandstone	Medium to light grey, lithic, very fine to coarse grained.
1232' - 1250'	Shale	Medium to dark grey, 20% lithic siltstone content, micaceous.
1250' - 1260'	Shale	Medium to dark grey, trace to 20% lithic siltstone content, micaceous.

1260' - 1286'	Shale	Medium to dark grey, trace of lithic siltstone content, micaceous.
1286' - 1290'	Siltstone-Shale	Medium to dark grey, 50% lithic siltstone and 50% shale, micaceous.
1290' - 1306'	Shale	Medium to dark grey, trace of lithic siltstone content, micaceous.
1306' - 1310'	Shale	Medium to dark grey, 30% lithic siltstone content, micaceous.
1310' - 1324'	Shale	Medium to dark grey, trace of lithic siltstone content, micaceous.
1324' - 1330'	Shale	Medium to dark grey, 30% lithic siltstone content, micaceous.
1330' - 1348'	Shale	Medium to dark grey, trace of lithic siltstone content, micaceous.
1348' - 1350'	Sandstone	Brown grey, quartzitic, very fine to medium grained.
1350' - 1364'	Shale	Medium to dark grey, trace of lithic siltstone content, micaceous.
1364' - 1370'	Siltstone-Shale	Medium to dark grey, 50% lithic siltstone and 50% shale, micaceous.
1370' - 1380'	Shale	Medium to dark grey, 30% lithic siltstone content, micaceous.
1380' - 1386'	Shale	Medium to dark grey, trace of lithic siltstone content, micaceous.
1386' - 1390'	Siltstone-Shale	Medium to dark grey, 50% lithic siltstone and 50% shale, micaceous.
1390' - 1396'	Shale	Medium to dark grey, trace of lithic siltstone content, micaceous.
1396' - 1400'	Siltstone-Sandstone	Medium to dark grey, lithic siltstone to very fine grained sandstone, 40% argillaceous content, micaceous.

1400' - 1408'	Shale	Medium to dark grey, trace to 20% lithic siltstone content, micaceous.
1408' - 1410'	Siltstone-Sandstone	Medium to dark grey, lithic siltstone to very fine grained sandstone, 40% argillaceous content, micaceous.
1410' - 1420'	Shale	Medium to dark grey, trace of lithic siltstone content, micaceous.
1420' - 1430'	Shale	Medium to dark grey, trace to 30% lithic siltstone content, micaceous.
1430' - 1438'	Shale	Medium to dark grey, trace to 20% siltstone (lithic) content, micaceous.
1438' - 1440'	Siltstone-Sandstone	Medium to dark grey, lithic siltstone to very fine grained sandstone, 30% argillaceous content, micaceous.
1440' - 1442'	Siltstone-Sandstone	Light grey, quartzitic siltstone to medium grained sandstone.
1442' - 1450'	Shale	Medium to dark grey, 10-40% lithic siltstone content, micaceous.
1450' - 1460'	Siltstone-Shale	Medium to dark grey, 50% lithic siltstone and 50% shale, micaceous.
1460' - 1468'	Shale	Medium to dark grey, 10-50% lithic siltstone content, micaceous.
1468' - 1470'	Siltstone-Sandstone	Light grey, quartzitic siltstone to very fine grained sandstone.
1470' - 1480'	Shale	Medium to dark grey, 10-50% lithic siltstone to very fine grained sandstone.
1480' - 1482'	Shale	Medium to dark grey, trace to 30% lithic siltstone content, micaceous.

1482' - 1490'	Siltstone-Sandstone	Medium grey, quartzitic siltstone to medium grained sandstone.
1490' - 1492'	Shale	Medium to dark grey, trace to 30% lithic siltstone content, micaceous.
1492' - 1500'	Siltstone-Sandstone	Medium grey, quartzitic siltstone to medium grained sandstone, trace of argillaceous content.
1500' - 1506'	Siltstone-Sandstone	Medium grey, quartzitic siltstone to fine grained sandstone.
1506' - 1510'	Shale	Medium to dark grey, trace to 30% lithic siltstone content, micaceous.
1510' - 1514'	Sandstone	Light grey, lithic, very fine to medium grained.
1514' - 1520'	Shale	Medium to dark grey, 30-50% lithic siltstone content, micaceous.
1520' - 1526'	Shale	Medium to dark grey, trace to 50% lithic siltstone content, micaceous.
1526' - 1530'	Sandstone	Light brown grey, lithic, very fine to medium grained, trace of argillaceous content.
1530' - 1534'	Shale-Siltstone	Medium to dark grey, 30-70% siltstone (lithic) content, pyritic.
1534' - 1540'	Sandstone	Light brown grey, lithic, very fine to medium grained, trace of argillaceous content.
1540' - 1545'	Shale	Medium to dark grey, trace to 20% lithic siltstone content, micaceous.
1545' - 1550'	Siltstone-Shale	Medium to dark grey, 50% lithic siltstone content, 50% shale, micaceous.

1550' - 1560'	Shale	Medium to dark grey, trace to 30% lithic siltstone content, micaceous.
1560' - 1570'		No Sample.
1570' - 1580'	Shale	Medium to dark grey, trace to 30% lithic siltstone content, micaceous.
1580' - 1588'	Shale	Medium to dark grey, trace of lithic siltstone content, micaceous and pyritic.
1588' - 1590'	Siltstone-Sandstone	Medium grey, lithic siltstone to very fine grained sandstone, trace of argillaceous content.
1590' - 1600'	Siltstone	Medium to dark grey, lithic, 20% argillaceous content.
1600' - 1608'	Shale-Siltstone	Medium to dark grey, 20-60% lithic siltstone, micaceous and pyritic. 80-40% shale.
1608' - 1610'	Siltstone-Sandstone	Medium to dark grey, lithic siltstone to very fine grained sandstone, trace of argillaceous content.
1610' - 1616'	Shale-Siltstone	Medium to dark grey, 20-60% lithic siltstone, 80-40% shale, micaceous and pyritic.
1616' - 1620'	Siltstone-Sandstone	Medium to dark grey, lithic siltstone to very fine grained sandstone, trace of argillaceous content.
1620' - 1628'	Shale-Siltstone	Medium to dark grey, 20-60% lithic siltstone, 80-40% shale.
1628' - 1630'	Siltstone-Sandstone	Medium to dark grey, lithic siltstone to very fine grained sandstone, trace of argillaceous content.
1630' - 1636'	Shale	Medium grey to medium dark grey, 30% lithic siltstone content, micaceous.

1636' - 1640'	Siltstone- Shale	Medium grey to medium dark grey, 50% lithic siltstone, 50% shale.
1640' - 1644'	Shale	Medium grey to medium dark grey, 30% lithic siltstone content, micaceous, pyritic.
1644' - 1660'	Siltstone- Shale	Medium grey to medium dark grey, 50% lithic siltstone and 50% shale, micaceous and pyritic.
1660' - 1670'	Siltstone	Medium to dark grey, lithic, 20% argillaceous content, micaceous.
1670' - 1678'	Shale	Medium to dark grey, 40% lithic siltstone content, micaceous.
1678' - 1680'	Sandstone	White, quartzitic, very fine to medium grained.
1680' - 1684'	Siltstone- Shale	Medium to dark grey, 50% lithic siltstone and 50% shale.
1684' - 1690'	Siltstone- Sandstone	Medium to light grey, quartzitic siltstone to medium grained sandstone.
1690' - 1696'	Siltstone- Sandstone	Medium to light grey, lithic, siltstone to medium grained sandstone.
1696' - 1702'	Siltstone- Shale	Medium to dark grey, 50% lithic siltstone and 50% shale, micaceous.
1702' - 1716'	Siltstone- Sandstone	Medium to light grey, quartzitic siltstone to medium grained sandstone.
1716' - 1720'	Shale	Medium to dark grey, 30% lithic siltstone content.
1720' - 1724'	Siltstone- Sandstone	Medium to light grey, lithic siltstone to medium grained sandstone.
1724' - 1730'	Shale	Medium to dark grey, 40% lithic siltstone content.

1730' - 1736'	Siltstone-Sandstone	Medium to light grey, lithic siltstone to medium grained sandstone.
1736' - 1740'	Shale	Medium to dark grey, 40% lithic siltstone content.
1740' - 1742'	Siltstone-Sandstone	Light grey to brown grey, lithic siltstone to medium grained sandstone.
1742' - 1750'	Siltstone-Shale	Medium to dark grey, 50% lithic siltstone and 50% shale.
1750' - 1760'	Shale	Medium to dark grey, 30-50% lithic siltstone content.
1760' - 1764'	Siltstone-Sandstone	Medium to light grey, quartzitic siltstone to fine grained sandstone..
1764' - 1770'	Shale	Medium to dark grey, 30-50% lithic siltstone content, pyritic.
1770' - 1772'	Siltstone-Sandstone	Medium to light grey, lithic, siltstone to fine grained sandstone.
1772' - 1780'	Siltstone-Shale	Medium to dark grey, 60-40% lithic siltstone and 40-60% shale.
1780' - 1782'	Siltstone-Sandstone	Medium to light grey, lithic siltstone to fine grained sandstone.
1782' - 1792'	Siltstone-Shale	Medium to dark grey, 40-60% lithic siltstone, 60-40% shale, micaceous.
1792' - 1800'	Siltstone-Sandstone	Light grey-brown grey, quartzitic siltstone to coarse grained sandstone.
1800' - 1804'	Siltstone-Shale	Medium to dark grey, 30-50% lithic siltstone, 70-50% shale, trace to 5% dolomite, some gilsonite present.
1804' - 1810'	Sandstone	Medium to light grey, lithic, very fine to coarse grained.

1810' - 1820'	Sandstone	Medium to light grey, lithic, very fine to coarse grained, trace to 5% dolomite content, some gilsonite and siliceous cement, pyritic.
1820' - 1830'	Sandstone	Medium to light grey, lithic, very fine to coarse grained, trace to 5% dolomite content, some gilsonite and siliceous cement.
1830' - 1840'	Sandstone-Siltstone	Medium to light grey, lithic, siltstone to medium grained sandstone, trace to 5% dolomite content, trace of argillaceous content, some gilsonite and siliceous cement present.
1840' - 1860'	Sandstone-Siltstone	Medium to light grey, lithic, siltstone to coarse grained sandstone, trace to 5% dolomite content, trace of argillaceous content, some gilsonite, minor-chert, some grains rounded.
1860' - 1865'	Sandstone-Siltstone	Light grey, lithic siltstone to medium grained sandstone, 5% dolomite content, some gilsonite present, trace of argillaceous content.
1865' - 1871'	Sandstone-Siltstone	Light grey, lithic siltstone to medium grained sandstone, 5% dolomite content, some gilsonite present.
1871' - 1874'	Sandstone-Siltstone	Light grey, lithic siltstone to fine grained sandstone, 5% dolomite content, some gilsonite present.
1874' - 1876'	Sandstone	Light grey, lithic, very fine medium grained, 5% dolomite content, some gilsonite present.
1876' - 1883'	Sandstone-Siltstone	Light grey, lithic siltstone to medium grained sandstone, 5% dolomite content, some gilsonite present.

1883' - 1886'	Sandstone	Light grey, lithic, very fine to medium grained, 5% dolomite content, some gilsonite present.
1886' - 1888'	Sandstone-Siltstone	Light grey, lithic siltstone to medium grained sandstone, 5% dolomite content, some gilsonite present.
1888' - 1891'	Sandstone	Light grey, lithic, very fine to medium grained, 5% dolomite content present, some gilsonite present.
1891' - 1895'	Sandstone-Siltstone	Light grey, lithic siltstone to medium grained sandstone, 5% dolomite content, some gilsonite present.
1895' - 1899'	Sandstone	Light grey, lithic, very fine to medium grained, 5% dolomite content, some gilsonite present.
1899' - 1929'	Sandstone and Shale	Interbedded sandstone and shale. Sandstone: light grey, medium to very fine grained, quartzitic, trace to 5% dolomite content in part. Shale: medium to dark grey, up to 30% silt and sand lenses, micaceous in part and occasional non-silty beds are present. 1901-13': contains carbonaceous flecks. 1913-29': shale is frequently pyritic.
1929' - 1934'	Shale	Medium to dark grey, trace to 30% lithic siltstone content.
1934' - 1940'	Siltstone-Sandstone	Medium to light grey, lithic siltstone to medium grained sandstone.
1940' - 1944'	Shale	Medium to dark grey, 30% lithic siltstone content.
1944' - 1950'	Siltstone-Sandstone	Light to medium grey, lithic siltstone to medium grained sandstone.

1950' - 1978'	Sandstone	Light grey, lithic, very fine to very coarse grained with chert pebbles, trace of argillaceous content in part.
1978' - 1980'	Shale	Medium to dark grey, trace to 30% siltstone (lithic) content.
1980' - 1988'	Sandstone	Light brown-grey, lithic, very fine to very coarse grained with chert pebbles, trace of argillaceous content in part.
1988' - 1990'	Shale	Medium to dark grey, trace to 30% lithic siltstone content.
1990' - 1996'	Sandstone	Light brown-grey, very fine to very coarse grained, with chert pebbles, trace of argillaceous content in part.
1996' - 2000'	Shale	Medium to dark grey, trace to 30% lithic siltstone content.
2000' - 2006'	Sandstone	Light brown grey, lithic, very fine to very coarse grained, trace of argillaceous content in part.
2006' - 2010'	Shale	Medium to dark grey, trace to 30% lithic siltstone content.
2010' - 2020'	Shale	Medium to dark grey, trace of lithic siltstone content.
2020' - 2058'	Shale	Dark grey, trace of lithic siltstone content, micaceous.
2058' - 2060'	Sandstone	White to light grey, very fine to medium grained, quartzitic.
2060' - 2066'	Shale	Medium to dark grey, trace of lithic siltstone content, micaceous.
2066' - 2070'	Sandstone	Light grey, lithic, very fine to medium grained.
2070' - 2076'	Shale	Medium to dark grey, trace of lithic siltstone content.

2076' - 2080'	Sandstone	Light brown grey, lithic, very fine to medium grained.
2080' - 2086'	Shale	Medium to dark grey, trace of lithic siltstone content.
2086' - 2090'	Sandstone	Light brown grey, lithic, very fine to medium grained.
2090' - 2098'	Shale	Medium to dark grey, trace of lithic siltstone content.
2098' - 2100'	Sandstone	Light brown grey, lithic, very fine to medium grained.
2100' - 2108'	Shale	Medium to dark grey, trace to 30% lithic siltstone content, pyritic.
2108' - 2110'	Sandstone	Light brown grey, lithic, very fine to medium grained.
2110' - 2128'	Shale	Medium to dark grey, trace of lithic siltstone content, pyritic.
2128' - 2130'	Sandstone	Light brown grey, lithic, very fine to medium grained.
2130' - 2136'	Shale	Medium to dark grey, trace of lithic siltstone content, pyritic.
2136' - 2140'	Sandstone	Light grey, lithic, very fine to medium grained.
2140' - 2150'	Shale	Medium to dark grey, trace of lithic siltstone content, minor ironstone.
2150' - 2160'	Shale	Medium to dark grey, trace of lithic siltstone content, few small chips of coal, pyritic.
2160' - 2170'	Shale	Medium to dark grey, trace of lithic siltstone content, pyritic.
2170' - 2188'	Shale	Medium to dark grey, 40% lithic siltstone content.

2188' - 2190'	Siltstone-Sandstone	Light grey, quartzitic siltstone to fine grained sandstone.
2190' - 2206'	Shale	Medium to dark grey, trace of lithic siltstone content, minor siliceous ironstone.
2206' - 2210'	Siltstone-Sandstone	Light grey, quartzitic siltstone to medium grained sandstone.
2210' - 2214'	Shale	Medium to dark grey, trace of lithic siltstone content, pyritic.
2214' - 2220'	Siltstone-Sandstone	Light grey, quartzitic siltstone to medium grained sandstone.
2220' - 2228'	Shale	Medium to dark grey, trace of lithic siltstone content, pyritic and micaceous.
2228' - 2230'	Siltstone-Sandstone	Light grey, quartzitic siltstone to medium grained sandstone.
2230' - 2232'	Shale	Medium to dark grey, trace of lithic siltstone content, pyritic.
2232' - 2240'	Siltstone-Sandstone	Light grey, lithic siltstone to medium grained sandstone.
2240' - 2244'	Shale	Medium to dark grey, 10% lithic siltstone content.
2244' - 2260'	Siltstone-Sandstone	Light grey, lithic, siltstone to fine grained sandstone, 10% argillaceous content.
2260' - 2268'	Siltstone-Sandstone	Light grey, lithic, siltstone to medium grained sandstone. trace of dolomite content.
2268' - 2270'	Shale	Medium to dark grey, 10% lithic siltstone content, micaceous.
2270' - 2298'	Siltstone-Sandstone	Light grey, lithic, siltstone to fine grained sandstone, 0 to trace argillaceous content. 2270-80: pyritic. 2270-98: trace of dolomite content.

2298' - 2300'	Shale	Medium to dark grey, trace of lithic siltstone content, micaceous.
2300' - 2308'	Siltstone-Sandstone	Light grey, lithic siltstone to fine grained sandstone, 0 to trace of argillaceous content, trace of dolomite content.
2308' - 2310'	Shale	Medium to dark grey, trace of lithic siltstone content, micaceous.
2310' - 2316'	Siltstone-Sandstone	Light grey, lithic siltstone to fine grained sandstone, 10% argillaceous content, trace of dolomite content.
2316' - 2320'	Shale	Medium to dark grey, trace of lithic siltstone content, micaceous.
2320' - 2324'	Siltstone-Sandstone	Light grey, lithic siltstone to fine grained sandstone, trace of argillaceous content, trace of dolomite content.
2324' - 2330'	Shale	Medium to dark grey, trace of lithic siltstone content, micaceous.
2330' - 2336'	Siltstone-Sandstone	Light grey, lithic, siltstone to medium grained sandstone, trace of argillaceous content, trace to 5% dolomite.
2336' - 2340'	Shale	Medium to dark grey, 40% lithic siltstone content, pyritic.
2340' - 2346'	Siltstone-Sandstone	Light grey, lithic siltstone to medium grained sandstone, trace of argillaceous content and trace to 5% dolomite content.
2346' - 2350'	Shale	Medium to dark grey, 20% lithic siltstone content.
2350' - 2354'	Siltstone-Sandstone	Light grey, lithic siltstone to medium grained sandstone, trace of dolomite content.

2354' - 2360'	Shale	Medium to dark grey, 10% lithic siltstone content, pyritic.
2360' - 2364'	Siltstone-Sandstone	Light grey, lithic siltstone to medium grained sandstone, trace of dolomite content.
2364' - 2370'	Shale	Medium to dark grey, 30% lithic siltstone content, pyritic.
2370' - 2372'	Siltstone-Sandstone	Light grey, lithic siltstone to fine grained sandstone, trace of dolomite content.
2372' - 2380'	Shale	Medium to dark grey, 30% lithic siltstone content, pyritic.
2380' - 2384'	Siltstone-Sandstone	Light grey, lithic siltstone to fine grained sandstone.
2384' - 2390'	Shale	Dark grey, 10% lithic siltstone content, micaceous.
2390' - 2392'	Siltstone-Sandstone	Light grey, lithic siltstone to fine grained sandstone.
2392' - 2420'	Shale	Dark grey, 10% lithic siltstone content, micaceous.
2420' - 2430'	Shale	Medium to dark grey, trace to 40% lithic siltstone content, pyritic and micaceous, minor quartzite, coal.
2430' - 2450'	Shale	Medium to dark grey, trace to 40% lithic siltstone content, micaceous.
2450' - 2458'	Shale	Medium to dark grey, 40% lithic siltstone content, pyritic.
2458' - 2460'	Siltstone-Sandstone	Light grey, lithic siltstone to fine grained sandstone.
2460' - 2478'	Shale	Medium to dark grey, 40% lithic siltstone content, pyritic.

2478' - 2480'	Siltstone- Sandstone	Light grey, lithic siltstone to fine grained sandstone.
2480' - 2486'	Shale	Medium to dark grey, 30% lithic siltstone content.
2486' - 2494'	Siltstone- Sandstone	Light grey, lithic siltstone to medium grained sandstone.
2494' - 2500'	Shale	Medium to dark grey, 30% lithic siltstone content.

SHELL, PEEL RIVER H-50 (NO. 3)

64° 30' 17.870" N,
134° 30' 33.658" W.

Sidewall Core

606	Shale	Medium to dark grey, 20% silt content.
752	Shale	Medium to dark grey, 25% silt content.
811	Siltstone- Shale	Medium to dark grey, 50% shale and 50% siltstone, pyritic.
847	Siltstone	Medium to dark grey, 20% argillaceous content, pyritic.
897	Siltstone- Shale	Medium to dark grey, 50% lithic siltstone and 50% shale, micaceous.
947	Shale	Medium to dark grey, 30% lithic silt content, pyritic.
1011	Shale	Medium to dark grey, 30% lithic silt content, micaceous.
1109		Not Recovered.
1200	Shale	Medium to dark grey, 20% lithic silt content, micaceous.
1297	Shale	Medium to dark grey, slightly silty, micaceous.

Sidewall Core

1362	Shale	Medium to dark grey, slightly silty, micaceous.
1420	Shale	Medium to dark grey, slightly silty, micaceous.
1477	Shale	Medium to dark grey, 30% lithic silt content, micaceous.
1525	Shale	Medium to dark grey, 30% lithic silt content, micaceous.
1604	Shale	Medium to dark grey, 40% lithic silt content, micaceous, pyritic.
1709	Siltstone-Sandstone	Medium to dark grey siltstone to medium grained sandstone, lithic.
1791	Siltstone-Shale	Medium to dark grey, 40-60% lithic siltstone and 60-40% shale, micaceous.
1946	Siltstone-Sandstone	Medium to light grey, lithic, siltstone to medium grained sandstone.
2006	Shale	Medium to dark grey, slightly silty.
2110	Shale	Medium to dark grey, slightly silty, pyritic.
2200	Shale	Medium to dark grey, slightly silty, pyritic.

Sidewall Core

2285	Siltstone- Sandstone	Light grey siltstone to fine grained sandstone, lithic, slightly argillaceous and dolomitic.
2393	Shale	Dark grey, 10% lithic silt content, micaceous.
2462	Shale	Medium to dark grey, 40% lithic silt content, pyritic.

SALMON III ENGINEERING SUMMARY

25.

(a) Drillstem Tests

<u>Test No.</u>	<u>Interval</u>	<u>T.O.</u>	<u>IFP</u>	<u>FFP</u>	<u>ISIP/Time</u>	<u>FSIP/Time</u>	<u>Recovery</u>
1	1940-2140	60 min	104	445	1139/30 min	1175/60 min	120' muddy water 100' water

Drillstem test reports forwarded April 14, 1967

(b) Casing Record

<u>Size</u>	<u>Weight</u>	<u>Grade</u>	<u>Amount</u>	<u>Depth</u>	<u>Cement</u>
20"	94 Conductor pipe		20'	32.5' KB	58 sacks + 100 lbs. CaCl ₂
13 3/8"	61#	J-55	11 Jts.	421.93' KB	460 sacks + 2% CaCl ₂

(c) Bit Record

<u>No.</u>	<u>Size</u>	<u>Type</u>	<u>Depth Cut</u>	<u>Feet Cut</u>	<u>Hours Run</u>
1A	13 1/4"	S3	430	410	23
1A	17 1/2"	Reamer	422	408	21
1	9 7/8"	YTL-J	793	363	22 3/4
2	9 7/8"	YTL	1090	205	17 1/2
3	6 3/4"	M4N-J	1204	204	8 1/2
4	6 3/4"	H7UG-J	1454	250	15
5	6 3/4"	H7UG-J	1636	172	12 3/4
6	6 3/4"	H7UG-J	1726	90	12 3/4
7	6 3/4"	H7UG-J	1806	80	5 3/4
8	6 3/4"	H7UG-J	1858	52	6 1/2
9	6 3/4"	H7UG-J	1897	39	6 3/4
10	4 1/4"	Diamond	1927	30	6 1/4
11	6 3/4"	H7UG-J	2013	85	7 3/4
12	6 3/4"	H7UG-J	2100	95	10 1/2
13	6 3/4"	H7UG-J	2207	99	10 1/4
14	6 3/4"	H7UG-J	2230	23	4 1/4
15A	6 3/4"	RG7X-J	2234	4	2 1/4
16	6 3/4"	H7UG-J	2265	31	7
15B	6 3/4"	RG7X-J	2274	9	4
17	6 3/4"	H7UG-J	2336	52	12
18	6 3/4"	H7UG-J	2384	48	10 3/4
19	6 3/4"	H7UG-J	2456	72	9 3/4
20	6 3/4"	H7UG-J	2500	44	8 1/4

Note: Measured depth 2504' KB(d) Mud Package

<u> Bentonite</u>	<u> Polyp</u>	<u> Caustic Soda</u>	<u> Barite</u>	<u> Bicarb</u>
397 sacks	175 sacks	24 sacks	1113 sacks	2 sacks

T.G. EASTLAND — testers Ltd.

REG. NO. 5 NORTH EDMONTON, ALBERTA PHONE 749 3321

SERVICE REPORT

TEST No. One
Date March 26, 1967
Ticket No. 390

Well Name	SHELL PEEL RIVER			Loc.	R-YT-H-59	
Formation Tested	Tight Hole			TOOL ASSEMBLY		
Interval	1940	To	2140	Tail Pipe	199.50	
First Flow	2	mins.	Initial Shut-in	30	mins.	
Second Flow	60	mins.	Final Shut-in	60	mins.	
Maximum Formation Temp.				°F		
Fluid Cushion				Amount		
Total Fluid Recovered	300'					
Flow Rate	Mcf/d Pitot Tube w/Water/Merc.			ins		
Side Static Press. Gauge				psig.		
Fluid Description	120' of muddy water and 180' of water.			Perf.	23.45	
Remarks	Good pre-flow. Tool opened to 1/2" choke Good blow for 30 mins. decreasing after 30 mins.					
Was tool chased?						
Did mud level drop?						
When did mud level drop?						
Started in Hole	9:00am		Out of Hole	2:00pm		
Main Hole: Depth	2140		Size	6 3/4		
Rat Hole: Depth			Size			
Casing: Depth	422	Size	13 3/8	Weight	61	
Drill Pipe Size	3 1/2 IF					
Drill Collar: Size	5"	I.D. Length	27			
Type of Packer(s)	Conv.		No. of Packers	Two		
Size of Packer Rubber	5 3/4"					
Bottom Choke Size	1/2"	3/4"	Surface Choke Size	1"		
Drilling Fluid Type						
Viscosity	48	Weight	12.3	W.L.	9.5	
				Witnesses		
				Co. Rep.	R. W. Miller	
				Tester	Bill Mischke	
				Toolpusher		
				Drig. Cont.	Regent Rig. No. 21	

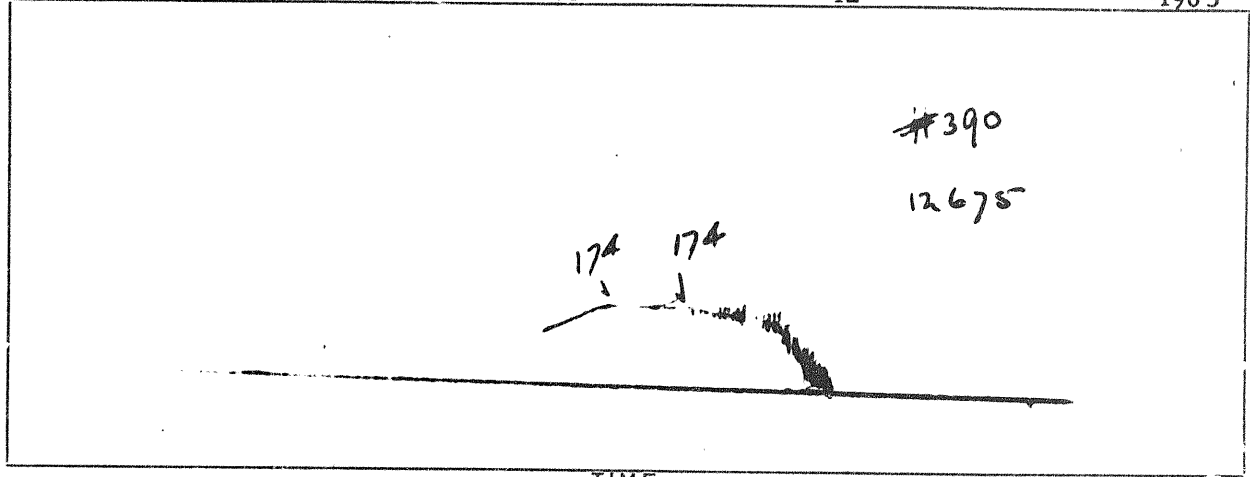
PRESSURE DATA

Recorder Number	Field Estimate	Corrected Readings		
		12675	12538	12987
Recorder Capacity (psig)		0-1675	2600	3400
Recorder Depth		1903	1933	1958
Recorder Position				
Clock Capacity (hours)		12	12	12
Initial Hydrostatic	1296	Used steel stylus only part of chart visible		1287
Initial Shut-in	1134	Stylus knocked off. No Chart		1189
Initial Flow	54			104
Final Flow	108	174		445
Final Shut-in	1134	174		1175
Final Hydrostatic	1296			1253

T.G. EASTLAND — testers ltd.

TEST No. One
 Date Mar. 26, 1967
 Ticket No. 390

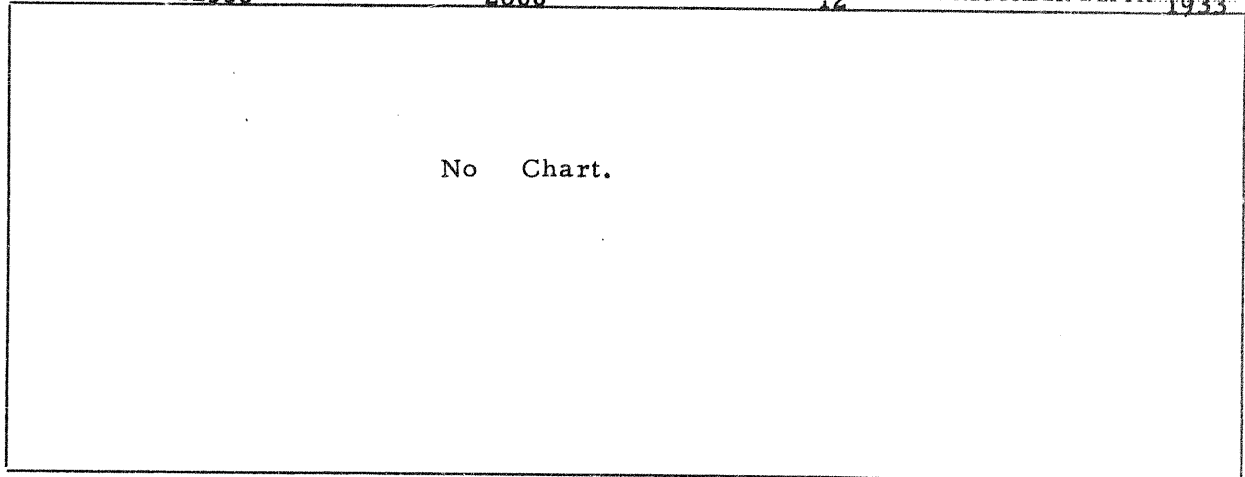
WELL NAME SHELL PEEL RIVER R-YT-H-59
 RECORDER No. 12675 ELEMENT RANGE 0-1675 P.S.I. CHART SPEED 12 HRS. RECORDER DEPTH 1903



PRESSURE

TIME

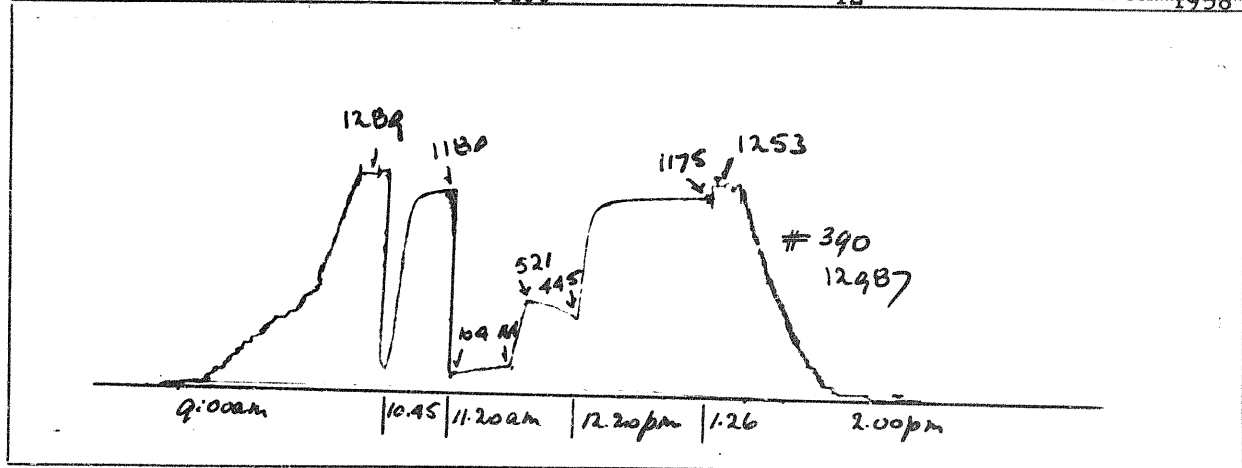
RECORDER No. 12538 ELEMENT RANGE 2600 P.S.I. CHART SPEED 12 HRS. RECORDER DEPTH 1933



PRESSURE

TIME

RECORDER No. 12987 ELEMENT RANGE 3400 P.S.I. CHART SPEED 12 HRS. RECORDER DEPTH 1958



PRESSURE

TIME

T.G. EASTLAND — testers ltd.

R.R. No. 6, NORTH EDMONTON, ALBERTA

TEST No. One
 Date March 26, 1967
 Ticket No. 390

DRILL STEM TEST PRESSURE REPORT

WELL NAME SHELL PEEL RIVER R-YT-H-59
 LSD.
 INTERVAL 1940 - 2140 FORMATION Tight Hole B.H. TEMP. °F
 GAUGE No. 12987 DEPTH OF ELEMENT 1958 CALIBRATION EQUATION Pc

	Time	T Mins.	Pressure psig	Time	T Mins.	Pressure psig
Initial Hydrostatic			1289	11:17 pm	57	1173
				1:20	60	1174
Initial Shut-in	10:45am	0	126	1:23	63	1175
	10:48	3	306	1:26	66	1175
	10:51	6	523			
	10:54	9	892	Final Hydrostatic		1253
	10:57	12	1052			
	11:00	15	1133			
	11:03	18	1158			
	11:06	21	1170			
	11:09	24	1175			
	11:12	27	1181			
	11:15	30	1184			
	11:18	33	1187			
	11:20	35	1189			
Flow Pressure		F1	104			
		F2	164			
		F3	521			
		F4	445			
Final Shut-in	12:20pm	0	445			
	12:23	3	792			
	12:26	6	1013			
	12:29	9	1094			
	12:32	12	1120			
	12:35	15	1135			
	12:38	18	1142			
	12:41	21	1147			
	12:44	24	1152			
	12:47	27	1155			
	12:50	30	1158			
	12:53	33	1162			
	12:56	36	1164			
	12:59	39	1165			
	1:02	42	1167			
	1:05	45	1168			
	1:08	48	1169			
	1:11	51	1170			
	1:14	54	1172			

(e) Deviation Record

<u>Depth (feet)</u>	<u>Deviation (Total degrees)</u>
105	1/4
250	1/2
420	1/4
700	1
1000	1 1/2
1450	2 1/2
1600	3 1/2
1726	3 3/4
1800	4
2504	8

(f) Abandonment Plugs

<u>Date</u>	<u>Interval</u>	<u>Cement & Additives</u>	<u>Remarks</u>
3/31/67	TD - 2400	31 sacks	Tagged @ 300'
3/31/67	975-370	302 sacks + 2% CaCl ₂	Cut off casing
4/1/67	surface casing	10 sacks	Weld on plate Erect sign

Rathole 5 sacks

(g) Lost Circulation Zones

None

(h) Blowouts

None

SECTION IV LOGS

27.

<u>Date</u>	<u>Interval</u>	<u>Type</u>
3/30/67	2490 - 422	Induction Electric
3/30/67	2489 - 422	Microlog - Galber
3/30/67	2493 - 422	Compensated Formation Density-Gamma Ray
3/30/67	2492 - 422	Borehole Compensated Sonic-Gamma Ray

SECTION V ANALYSIS

- (a) Core Analysis
None
- (b) Water Analysis
(E67-3599) forwarded
April 11, 1967
- (c) Gas Analysis
None
- (d) Oil Analysis
None

CHEMICAL & GEOLOGICAL LABORATORIES LTD.

WATER ANALYSIS

Lab No. E67-3599

Received: March 30, 1967 Reported: April 5, 1967
 Operator: Shell Canada Limited
 Elev.: K.B. 109.5' Crd. 95' Est. Zone/Formation: MSI Sandstone
 Method of Production: D.S.T. #1

Well: Location: Shell Peel R. Y.T. H-59

Field or Area:

Sample Interval: 1940' - 2140'

Sampled by: R. Miller

Date: March 26, 1967

Sampled from: immediately above tool Sample #3.

OTHER PERTINENT DATA WFLD T.D. 2140'. Sample Number: 9908

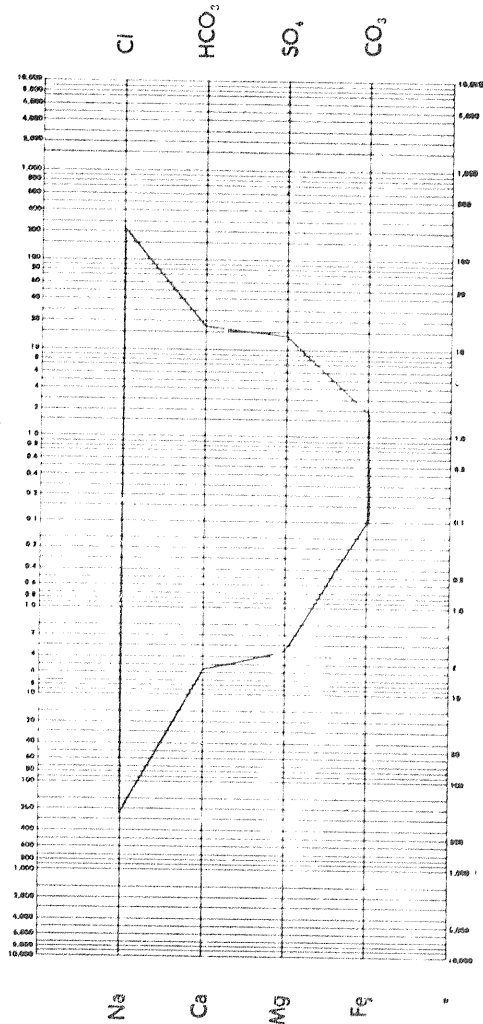
Recovery: 120' (.89 bbbls) Muddy water
 180' (1.31 bbbls) water

(Signed)

Mg./L	Na	K	Ca	Mg	SO ₄	Cl	CO ₃	HCO ₃
5,707			115	42	675	7,956	55	1,050
248.26			5.74	3.45	14.04	224.36	1.83	17.22
48.21			1.11	0.67	2.73	43.57	0.36	3.34

Total Solids Mg./L: By Evaporation 17,430 Fe Present Specific Gravity 1.011 @60°F Observed pH 8.6 @ 76 °F
 Calculated 15,600 After Ignition 13,330 H₂S Nil Refractive Index 1.3398 @25°C Resistivity 0.420 ohm meters @ 68 °F

Pattern Unit Meq./L



Remarks and Conclusions

Sample consisted of very muddy water. The filtered water was dark brown in colour.

Organic matter detected in evaporated total solids.

SECTION 10 - CEMENT PLUG SUMMARY

- (a) Logging Record
None
- (b) Perforation Record
None
- (c) Cementation Record

<u>Plug No.</u>	<u>Date</u>	<u>Interval</u>	<u>Formation</u>	<u>Cement</u>	<u>Remarks</u>
1	3/31/67	TD-2400	Mississippian	31 sacks	
2	3/31/67	975-370	Miss-Cretaceous	382 sacks + 2% CaCl ₂	Tapped @ 300'
3	4/1/67	surface casing		10 sacks	Cut off casing Weld on plate Erect sign
		Rathole		5 sacks	

- (d) Acidization and Fracturing Record
None
- (e) Back Pressure and Production Tests
None