WELL HISTORY REPORT

on

SHELL PEEL R YT B-646A

SHELL CANADA LIMITED

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SHELL CANADA LIMITED

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A. FIRST HOLE

Section I - Summary of Well Data

(a) Well Name and Number

Shell Peel R YT B-6

(b) Permittee

Shell Canada Limited

(c) Name of Operator

Shell Canada Limited
P.O. Box 186
Edmonton, Alberta

(d) Location

Unit B, Section 6, Grid 66° 40' 134° 45', Latitude 66° 35', 09.4" N, Longitude 134° 45', 37.5" W.

(e) Permit Number

3612

(f) Drilling Contractor

Regent Drilling Company
Rig No. 21 - Rotary

(g) Drilling Authority

Drilling Authority Number 237
Issued November 29, 1966

(h) Classification

Wildcat

(i) Elevations

Ground Elevation: 202'
K. B. Elevation: 214.4'

(j) Spudded

December 14, 1966

(k) Completed Drilling

December 18, 1966

(l) Total Depth and Plugged Back Total Depth

T. D. ~~1412~~ 3500' (Driller) P.B.T.D. Surface

(m) Well Status

Plugged and Abandoned

(n) Rig Released

Rig skidded for second attempt to Latitude 66° 35' 9.5" N, Longitude 134° 45' 40" W

(o) Hole Size

24" to 40'
13¾" to 372'
6¾" to 1412'

(p) Casing

20" Conductor Pipe set at 35.9' K.B.
9 5/8" Casing set at 371.66' K.B.

Section II - Geological Summary

(a) Formation Tops

Formation	Spore Zone Depth
Lower Cretaceous	Surface
Mississippian	1039 (-825)

(b) Cored Intervals

No Cores Cut

(c) Sample Description

Refer to Second Attempt.

Section III - Engineering Summary

(a) Report of Drill Stem Tests

Test No.	Interval	T. O.	IFP	FFP	ISIP/Time	FSIP/Time	Recovery
1	1035-1412	60 min.	37 psi	91 psi	353/42 min.	143/30 min.	0.3 bbls. mud
2	1025-1412	90 min.	19 psi	62 psi	663/30 min.	662/90 min.	0.2 bbls. mud 0.2 bbls. mud-cut water

Gas to surface in ½ minute T.S.T.M.
DST charts forwarded January 17, 1967.

(b) Casing Record

Size	Weight	Grade	Amount	Depth	Cement
20"	Conductor	Pipe	23.50'	35.90' K. B.	140 sacks Portland + 3% $CaCl_2$
9 5/8"	36#	J-55	11 Jts.	371.66' K.B.	~~270~~ 275 sacks Portland + 2% $CaCl_2$

(c) Bit Record

Number	Size	Type	Depth Out	Feet Cut	Hours Run
1 A	13¾	S3	372	372	20¾
1	6¾	S4	1030	658	12
2	6¾	OSC3	1412	382	12¼
3	6¾	M4N	Drilled Cement Plugs		

(d) Mud Report

Caustic Soda	Peltex	Bentonite	Quick-Vis	Barium Carbonate	Bicarbonate of Soda
650 lbs.	1950 lbs.	26,400 lbs.	12 gallons	65,100 lbs.	400 lbs.

(e) Deviation Record

Depth (feet)	Deviation (Degrees)
75'	1 °
150'	1 °
270'	1¼°
372'	1¼°
600'	1¼°
900'	¾°
1275'	1 °

(f) Abandonment Plugs

Date	Interval	Sacks Cement & Addititives	Remarks
12/24/66	1412-1360	20 Portland + 2% $CaCl_2$	Did not tag
12/24/66	1140-980	55 Portland + 2% $CaCl_2$	Tagged @ 975'
12/25/66	420-320	40 Portland + 2% $CaCl_2$	Tagged @ 346'
12/25/66	Surface	10 Portland	Plug leaked
12/26/66	Surface	10 Portland	Plug leaked
12/28/66	956-240	172 Portland + 2% $CaCl_2$	Tagged @ 300'
12/28/66	300-100	72 Portland + 3% $CaCl_2$	Tagged @ 107' Drilled out to 154'
12/30/66	154-Surface	65 Portland + 3% $CaCl_2$	Pressured up to 1000 psi Held OK.

(g) Lost Circulation Zones

None

(h) Report of Blowouts

None

Section IV - Logs

Date	Interval	Type
12/22/66	1411-368	Induction - Electrical
12/22/66	1411-368	Microlog - Caliper
12/22/66	1411-Surface	High Resolution Thermometer

Section V - Analysis

(a) Core Analysis

No Cores Cut

(b) Water Analysis

Laboratory Report No. 3 - 1025'-1412' DST #2

(c) Gas Analysis

Laboratory Report No. E 67-2679 forwarded January 17, 1967

(1) Oil Analysis

None

Section VI - Completion Summary

(a) Tubing Record

None

(b) Perforation Record

None

(c) Cementation Record

Plug No.	Date	Interval	Formation	Cement Used (sacks)	Remarks
1	12/24/66	1412-1360	Mississippian	20 Portland + 2% $CaCl_2$	Did not tag
2	12/24/66	1140-980	Mississippian	55 Portland + 2% $CaCl_2$	Tagged @ 975'
3	12/25/66	420-320	Cretaceous	40 Portland + 2% $CaCl_2$	Tagged @ 346'
4	12/25/66	Surface		10 Sacks Portland	Plug leaked
5	12/26/66	Surface		10 Sacks Portland	Plug leaked

Drilled out surface plug. Retagged plug #3 @ 313'. Drilled out plug #3. Retagged plug #2 @ 957'.

6	12/28/66	956-240	Cretaceous	172 Portland + 2% $CaCl_2$	Tagged @ 300'
7	12/28/66	300-100	Cretaceous	72 Portland + 3% $CaCl_2$	Tagged @ 107'
8	12/30/66	154-Surface	Cretaceous	65 Portland + 3% $CaCl_2$	Plug leaked, drilled out plug #6 to 154' Pressured up to 1000# Held OK.

(d) Acidization and Fracturing Record

None

(e) Back Pressure and Production Tests

None

B. SECOND HOLE

Section I - Summary of Well Data

(a) Well Name and Number

Shell Peel R YT B-6A

(b) Permittee

Shell Canada Limited

(c) Name of Operator

Shell Canada Limited
P.O. Box 186
Edmonton, Alberta

(d) Location

Unit B, Section 6, Grid 66° 40' 134° 45' Latitude 66° 35' 9.5" N Longitude 134° 45' 40" W

(e) Permit Number

3612

(f) Drilling Contractor

Regent Drilling Company
Rig No. 21 - Rotary

(g) Drilling Authority

Drilling Authority No. 237
Issued November 29, 1966

(h) Classification

Wildcat

(i) Elevations

Ground Elevation: 205'
K.B. Elevation: 217.5'

(j) Spudded

January 3, 1967

(k) Completed Drilling

January 21, 1967

(l) Total Depth and Plugged Back Total Depth

T.D.:3500 (Driller) P.B.T.D.: Surface

(m) Well Status

Plugged and Abandoned

(n) Rig Released

January 25, 1967

(o) Hole Size

30" to 28'
17½" to 637'
12¼" to 1218'
6¾" to 3500'

(p) Casing

20" Conductor Pipe set at 28' KB
13 3/8" Casing set at 630.64' KB
9 5/8" Casing set at 1218.64 KB

Section II - Geological Summary

(a) Formation Tops

Formation	Spare Zone Depth
Lower Cretaceous	Surface
Mississippian	1042 (-825)

(b) Sidewall Cores

Recovered 23 of 24 sidewall cores

Depth	Lithology	Formation
3491	Shale	Mississippian
3390	Shale	
3292	Shale	
3195	Shale	
3098	Shale	
3005	Shale	
2895	Shale	
2805	Shale	
2784	Sand	
2694	Sand	
2652	Sand	
2625	Sand	
2612	Shale	
2443	Shale	
2416	Sand	
2311	Sand	
2299	Not Recovered	
1955	Shale	
1810	Shale	
1712	Shale	
1599	Shale	
1499	Shale	
1404	Shale	
1310	Shale	

(c) Sample description

K.B. 218'

T.D. 3500'

LATITUDE: 66° 35' 9.5"N

LONGITUDE: 134° 45' 40" W

0 - 10'		
10' - 20'	Sandstone	Olive grey, fine to very fine grained quartzitic sandstone, well sorted.
20' - 30'	Sandstone	Olive grey, very fine grained quartzitic sandstone, 20% argillaceous content and a trace to 5% dolomitic content.
30' - 40'	Siltstone	Olive grey, quartzitic siltstone, 20% argillaceous content with a trace to 5% dolomitic content.
40' - 50'	Siltstone	Olive grey, quartzitic siltstone, 20% argillaceous content with a trace of dolomitic content.
50' - 60'	Siltstone	Olive grey, quartizitic siltstone, 10% argillaceous content, 5% dolomitic content, micaceous.
60' - 70'	Siltstone	Medium to dark grey, quartzitic siltstone, 40% argillaceous content, 5% dolomitic content.
70' - 100'	Shale	Medium to dark grey, 10% silty content and a trace of dolomitic content. 90-100: contains band of pyritic ironstone.
100' - 120'	Shale	Brown grey, 30% quartzitic siltstone content, trace to 5% dolomite.
120' - 140'	Shale	Medium to dark grey, 10% quartzitic siltstone content. Shale is soft.
140' - 150'	Shale	Dark yellow brown, 10% quartzitic siltstone content, micaceous.
150' - 220'	Shale	Medium to dark grey.

220' - 230'	Shale	Medium to dark grey, pyritic, 10% ironstone.
230' - 320'	Shale	Medium to dark grey.
320' - 340'	Shale	Medium grey. 320-30: contains a trace of dolomite.
340' - 370'	Shale	Medium to dark grey.
370' - 520'	Shale	Medium grey. Occasional trace of siltstone.
520' - 530'	Shale	Medium to dark grey, 10% quartzitic siltstone content.
530' - 560'	Shale	Medium to dark grey. Occasional trace of siltstone.
560' - 630'	Shale	Medium to medium-dark grey. Occasional trace of siltstone.
630' - 650'	Shale	Medium grey to medium-dark grey shale with an occasional trace of siltstone. Interbeds of ironstone.
650' - 660'	Shale	Medium grey to medium-dark grey, trace of quartzitic siltstone, micromicaceous.
660' - 670'	Shale	Medium grey to medium-dark grey, trace of quartzitic siltstone, trace of ironstone.
670' - 680'	Shale	Medium grey to medium-dark grey, trace of quartzitic siltstone.
680' - 740'	Shale	Medium to medium-dark grey. 700-10: trace of pyrite.
740' - 750'	Shale	Medium to dark grey, trace of ironstone.
750' - 820'	Shale	Medium to dark grey.
820' - 830'	Shale	Medium brown to medium-dark grey, 20% ironstone, some chips swell in water - break apart. 800-30: micaceous.
830' - 840'	Shale	Medium brown to medium-dark grey. Trace of bentonite.

840' - 860'	Shale	Medium brown to medium-dark grey, trace of bentonite, micaceous.
860' - 870'	Shale	Medium to dark grey, micaceous.
870' - 880'	Shale	Medium to dark grey, micaceous, contains pyrite.
880' - 890'	Shale	Medium to dark grey, micaceous.
890' - 920'	Shale	Medium to dark grey, micaceous.
920' - 940'	Shale	Medium to dark grey, trace of quartzitic siltstone, micaceous.
940' - 950'	Shale	Medium-dark grey to brown-grey, micaceous.
950' - 990'	Shale	Medium-dark grey to brown-grey, 10% bentonitic content, micaceous.
990' - 1010'	Shale	Medium to dark grey, 40% quartzitic siltstone, micaceous.
1010' - 1020'	Siltstone	Brown grey to rust, quartzitic siltstone, micaceous, 20% argillaceous content.
1020' - 1030'	Siltstone	Brown grey, quartzitic siltstone with 20% argillaceous content, micaceous.
1030' - 1040'	Sandstone	Light grey, medium to fine grained, quartzitic sandstone, well sorted. Some quartz overgrowths. Grades to siltstone and argillaceous in parts. Scattered chert pebbles in bands, pebble size to coarse. Less than 5% dolomite, glauconitic.
1040' - 1044'	Sandstone	Light grey, medium to fine grained, quartzitic sandstone, less than 5% dolomite, glauconitic.
1044' - 1050'	Siltstone	Medium to dark grey, quartzitic siltstone, 20% argillaceous content, glauconitic.
1050' - 1054'	Sandstone	Light grey, quartzitic, fine to very coarse grained, glauconitic.

1054' - 1060'	Siltstone	Medium to dark grey, quartzitic with 20% argillaceous content, glauconitic.
1060' - 1090'	Siltstone	Medium to dark grey, quartzitic with 20% argillaceous content, minor sandstone, glauconitic.
1090' - 1096'	Siltstone	Medium to dark grey, quartzitic, 20% argillaceous content, glauconitic.
1096' - 1100'	Sandstone	Light grey, quartzitic medium to fine grained, rounded, glauconitic.
1100' - 1140'	Shale and Siltstone	Medium to dark grey. 50% shale and 50% quartzitic siltstone.
1140' - 1150'	Shale	Medium to dark grey, 30% quartzitic siltstone content.
1150' - 1200'	Siltstone	Medium to dark grey, quartzitic, with 20% argillaceous content. 1170-80: Band of greyish-red chert and trace of pyrite. 1190-1200: micaceous.
1200' - 1210'	Siltstone/ Shale	Medium to dark grey. 50% quartzitic siltstone and 50% shale. Band of ironstone.
1210' - 1234'	Siltstone/ Shale	Medium to dark grey. 50% quartzitic siltstone and 50% shale.
1234' - 1240'	Siltstone-Sandstone/ Shale	Greyish-red, quartzitic, siltstone to very fine grained sandstone grading to greyish red shale.
1240' - 1260'	Siltstone-Sandstone	Medium to dark grey siltstone to very fine grained sandstone, lithic, 10% argillaceous content, pyritic.
1260' - 1270'	Shale	Medium to dark grey, 10% quartzitic siltstone content.
1270' - 1274'	Siltstone-Sandstone/ Shale	Greyish-red quartzitic siltstone and very fine grained sandstone grading to greyish-red shale.
1274' - 1280'	Shale	Medium to dark grey, 40% quartzitic siltstone content.

1280' - 1290'	Siltstone-Sandstone	Medium to dark grey, quartzitic siltstone to very fine grained, quartzitic sandstone, trace of dolomite, pyritic.
1290' - 1300'	Shale	Medium to dark grey, 40% quartzitic siltstone.
1300' - 1310'	Shale	Medium to dark grey to dark grey shale with a trace of 20% quartzitic siltstone, trace of dolomite, pyritic.
1310' - 1320'	Shale	Medium-dark grey to dark grey shale with trace to 20% siltstone, quartzitic, pyritic.
1320' - 1330'	Shale	Medium-dark grey to dark grey shale with trace to 20% quartzitic siltstone, pyritic.
1330' - 1340'	Shale	Medium-dark grey to dark grey shale with trace to 20% quartzitic siltstone, micaceous.
1340' - 1350'	Shale	Medium to dark grey shale with trace to 20% quartzitic siltstone, micaceous, band of ironstone.
1350' - 1360'	Shale	Medium to dark grey shale with trace to 20% quartzitic siltstone, micaceous, band of ironstone and pyritic.
1360' - 1410'	Shale	Medium to dark grey, with trace to 20% quartzitic siltstone, 1360-70: pyritic.
1410' - 1460'	Siltstone	Medium-dark grey to brown-grey, lithic siltstone. 1430-60: trace of dolomite, micaceous.
1460' - 1490'	Interbedded Sandstone and Shale	1460-72: White, medium to very fine grained, lithic sandstone. 1472-82: Medium to dark grey, micaceous shale. 1482-90: White, medium to very fine grained, lithic sandstone.
1490' - 1500'	Interbedded Sandstone and Shale	1490-94: Medium to dark grey, micaceous shale. 1494-1500: White, very fine to medium grained, lithic sandstone.

1500' - 1520'	Interbedded Sandstone and Shale	1500-10: Dark grey, micaceous shale. 1510-20: White, very fine to medium grained, lithic sandstone.
1520' - 1540'	Interbedded Sandstone and Shale	1520-30: Dark grey, micaceous shale. 1530-40: White, very fine to medium grained, lithic sandstone.
1540' - 1560'	Interbedded Sandstone and Shale	1540-50: Medium to dark grey, pyritic shale. 1550-60: White, very fine to medium grained, lithic sandstone.
1560' - 1580'	Interbedded Sandstone and Shale	1560-70: Medium to dark grey, pyritic shale. 1570-80: White, very fine to medium grained, lithic sandstone.
1580' - 1590'	Interbedded Sandstone and Shale	1580-85: Medium to dark grey shale. 1585-90: White, very fine to medium grained, quartzitic sandstone, subangular-subrounded, slightly siliceous in parts.
1590' - 1600'	Interbedded Siltstone and Siltstone-Sandstone	1590-94: Medium to dark grey, 10% argillaceous content, pyritic. 1594-1600: White, lithic siltstone to fine grained sandstone, siliceous in part.
1600' - 1610'	Interbedded Siltstone and Siltstone-Sandstone	1600-08: Medium to dark grey, lithic siltstone with 10% argillaceous content, 1608-10: White, lithic siltstone to fine grained sandstone.
1610' - 1620'	Interbedded Siltstone and Siltstone-Sandstone	1610-16: Medium to dark grey, lithic siltstone with 10% argillaceous content. 1616-20: White, lithic siltstone to fine grained sandstone.
1620' - 1630'	Interbedded Siltstone and Siltstone-Sandstone	1620-24: Medium to dark grey, lithic siltstone with 10% argillaceous content. 1624-30: White, lithic siltstone to fine grained sandstone.

1630' - 1640'	Interbedded Shale and Siltstone-Sandstone	1630-38: Medium to dark grey shale with 10% lithic siltstone. 1638-40: White, lithic, siltstone to fine grained sandstone.
1640' - 1650'	Shale	Medium to dark grey shale with 20% lithic siltstone, micaceous.
1650' - 1660'	Interbedded Shale and Siltstone-Sandstone	1650-56: Medium to dark grey shale with 10% lithic siltstone. 1656-60: White, lithic siltstone to fine grained sandstone.
1660' - 1670'	Interbedded Shale and Siltstone-Sandstone	1660-68: Medium to dark grey shale with 20% lithic siltstone. 1668-70: White, lithic siltstone to fine grained sandstone, pyritic.
1670' - 1680'	Interbedded Shale and Siltstone-Sandstone	1670-76: Medium to dark grey shale with 10% lithic siltstone, carbonized in part. 1676-80: White, lithic siltstone to fine grained sandstone.
1680' - 1690'	Interbedded Shale and Siltstone-Sandstone	1680-86: Medium to dark grey shale with 10% lithic siltstone, carbonized in part. 1686-90: White, lithic siltstone to fine grained sandstone.
1690' - 1700'	Shale	1690-95: Medium to dark grey shale with 20% lithic siltstone,micaceous. 1695-1700: Medium to dark grey shale with 10% lithic siltstone, micaceous.
1700' - 1750'	Shale	Medium to dark grey, trace of lithic siltstone.
1750' - 1768'	Shale	Medium to dark grey, 10% lithic siltstone, pyritic.
1768' - 1770'	Siltstone-Sandstone	White, lithic siltstone to medium grained sandstone.
1770' - 1780'	Shale	Medium to dark grey, 10% lithic siltstone.
1780' - 1784'	Siltstone-Sandstone	White, lithic siltstone to fine grained sandstone.
1784' - 1790'	Shale	Medium to dark grey, 10% lithic siltstone.

1790' - 1794'	Siltstone-Sandstone	White, lithic siltstone to fine grained sandstone.
1794' - 1800'	Shale	Medium to dark grey, 10% lithic siltstone.
1800' - 1810'		No Sample.
1810' - 1818'	Shale	Medium to dark grey, 40% lithic siltstone, pyritic.
1818' - 1822'	Sandstone	White, medium to very fine grained, 85% quartzitic, subrounded, tripolitic chert.
1822' - 1826'	Shale	Medium to dark grey, 40% lithic siltstone.
1826' - 1830'	Siltstone	Brown-grey, trace of argillaceous content, pyritic, lithic.
1830' - 1860'	Siltstone	Medium-dark grey to brown-grey, 10% argillaceous content, pyritic. 1840-60: minor sandstone.
1860' - 1870'	Siltstone	Medium to dark grey, 30% argillaceous content, pyritic.
1870' - 1900'	Shale	Medium to dark grey, trace of lithic siltstone. 1880-90: some pyrite.
1900' - 1920'	Shale	Medium to dark grey, micaceous, trace to 20% lithic siltstone.
1920' - 1960'	Shale	Medium to dark grey, trace of lithic siltstone, pyritic in parts.
1960' - 1974'	Siltstone-Sandstone	Light grey, lithic siltstone to medium grained sandstone. 85% of sandstone is quartzitic. Sub-rounded, tripolitic chert present, trace of dolomite and pyritic.
1974' - 1976'	Shale	Medium to dark grey, 40% lithic siltstone, pyritic.
1976' - 1984'	Sandstone	Light grey, medium to fine grained, lithic sandstone, pyritic.
1984' - 1986'	Shale	Medium to dark grey, 40% lithic siltstone.

1986' - 1990'	Sandstone	Light grey, medium to fine grained, lithic sandstone, pyritic.
1990' - 2014'	Shale	Medium to dark grey, trace of lithic siltstone.
2014' - 2026'	Sandstone	Light grey, lithic, medium to very fine grained, 85% is quartzitic, subrounded, tripolitic chert.
2026' - 2030'	Shale	Medium to dark grey, trace of lithic siltstone, pyritic.
2030' - 2040'	Siltstone	Medium to dark grey, 20% argillaceous content.
2040' - 2070'	Siltstone	Medium to dark grey, 40% argillaceous content, pyritic, thin quartzite stringers.
2070' - 2080'	Siltstone	Medium to dark grey, lithic siltstone with 40% argillaceous content.
2080' - 2090'	Siltstone-Shale	50% Medium to dark grey, lithic siltstone. 50% Medium to dark grey shale.
2090' - 2100'	Shale	Medium to dark grey, 30% lithic siltstone.
2100' - 2130'	Shale	Medium to dark grey, 40% lithic siltstone.
2130' - 2200'	Shale	Medium to dark grey, 30% lithic siltstone. 2170-90: contains pyrite.
2200' - 2230'	Shale	Medium to dark grey.
2230' - 2274'	Shale	Medium to dark grey, trace of lithic siltstone. 2230-40: contains pyrite.
2274' - 2276'	Sandstone	Light grey, fine to very fine grained sandstone, quartzitic with lithic grains "floating in silica".
2276' - 2280'	Shale	Medium to dark grey, trace of lithic siltstone.
2280' - 2284'	Shale	Medium to dark grey, 5% lithic siltstone, pyritic, micaceous.

2284' - 2286'	Siltstone-Sandstone	White, lithic siltstone to fine grained sandstone. 85% of sand is quartzitic. Subrounded, tripolitic chert present.
2286' - 2294'	Shale	Medium to dark grey, trace of lithic siltstone, contains tripolitic chert.
2294' - 2296'	Sandstone	Light grey, lithic, fine to very fine grained, pyritic.
2296' - 2300'	Shale	Medium to dark grey, trace of lithic siltstone.
2300' - 2314'	Sandstone	White, lithic, medium to very fine grained sandstone, trace of plant remains.
2314' - 2326'	Sandstone	Light brown grey, very fine to medium grained, lithic sandstone, siliceous in parts.
2326' - 2334'	Shale	Medium to dark grey, 20% lithic siltstone.
2334' - 2336'	Sandstone	White, very fine to medium grained, lithic.
2336' - 2340'	Shale	Medium to dark grey, 20% lithic siltstone.
2340' - 2358'	Siltstone	Medium to dark grey, 20% argillaceous content.
2358' - 2362'	Sandstone	White-gold, lithic, very fine to medium grained, siliceous and cherty.
2362' - 2378'	Siltstone	Medium to dark grey, lithic, 20% argillaceous content.
2378' - 2382'	Sandstone	White-gold, lithic, very fine to medium grained, cherty.
2382' - 2398'	Siltstone	Medium to dark grey, lithic, 20% argillaceous content.
2398' - 2400'	Sandstone	White-gold, lithic, very fine to medium grained.

2400' - 2406'	Siltstone	Medium to dark grey, lithic, 20% argillaceous content.
2406' - 2424'	Sandstone	White-white gold, lithic, very fine to medium grained. 85% of sand is quartzitic, rounded-subrouned, contains tripolitic chert.
2424' - 2430'	Shale-Siltstone	50% Medium to dark grey shale. 50% Medium to dark grey, lithic siltstone.
2430' - 2438'	Sandstone	White, lithic, very fine to very coarse grained.
2438' - 2450'	Shale	Medium to dark grey, 40% lithic siltstone, pyritic.
2450' - 2478'	Sandstone	White, lithic, fine to very coarse grained. Abundant subrounded chert pebbles.
2478' - 2480'	Shale	Medium to dark grey, 40% lithic siltstone.
2480' - 2482'	Sandstone	White, lithic, fine to very coarse grained.
2482' - 2500'	Shale	Medium to dark grey, 10% lithic siltstone.
2500' - 2510'	Shale	Medium to dark grey, trace of lithic siltstone, trace of dolomite in parts.
2510' - 2520'	Shale	Medium to dark grey, 20% lithic siltstone, trace of dolomite, minor carbonaceous flecks.
2520' - 2530'	Shale	Dark grey, trace of lithic siltstone, trace of dolomite in parts, minor carbonaceous flecks.
2530' - 2540'	Shale	Dark grey, 20% lithic siltstone, trace of dolomite, minor carbonaceous flecks.
2540' - 2550'	Shale	Dark grey, trace of lithic siltstone, trace of dolomite in parts, minor carbonaceous flecks.

2550' - 2560'	Shale	Dark grey, 20% lithic siltstone, trace of dolomite in parts, minor carbonaceous flecks.
2560' - 2570'	Shale	Dark grey, trace of lithic siltstone, trace of dolomite in parts, minor carbonaceous flecks.
2570' - 2580'	Shale	Dark grey, 20% lithic siltstone, trace of dolomite in parts, minor carbonaceous flecks.
2580' - 2590'	Shale	Medium to dark grey, trace of lithic siltstone, trace of dolomite in parts, minor carbonaceous flecks.
2590' - 2600'	Shale	Medium to dark grey, 20% lithic siltstone, trace of dolomite in parts, minor carbonaceous flecks.
2600' - 2610'	Shale	Medium to dark grey, trace of lithic siltstone, trace of dolomite in parts, minor carbonaceous flecks.
2610' - 2620'	Shale	Medium to dark grey, 20% lithic siltstone, trace of dolomite in parts, minor carbonaceous flecks, pyritic.
2620' - 2630'	Shale	Medium to dark grey, trace of lithic siltstone, trace of dolomite in parts, minor carbonaceous flecks.
2630' - 2650'	Sandstone	Light grey, lithic, coarse to very fine grained. 85% of sand is quartzitic, subrounded-rounded, few overgrowths, slightly siliceous in part, poorly sorted, friable, contains tripolitic chert.
2650' - 2670'		Samples lost while circulating.
2670' - 2732'	Sandstone	White, very fine to very coarse grained, lithic, 85% quartzitic, very poorly sorted, rare chert pebbles.
2732' - 2740'	Sandstone	Light grey with brownish tinge, very fine to very coarse sandstone, lithic grading to sandy siltstone (70% siltstone) with slightly siliceous cement.
2740' - 2744'	Sandstone	White, lithic, very fine to very coarse grained.

2744' - 2750'	Siltstone-Sandstone	Light grey-brown, lithic siltstone to very fine grained sandstone.
2750' - 2794'	Sandstone	White, lithic, very fine to very coarse grained.
2794' - 2796'	Shale	Medium to dark grey, 20% lithic siltstone, pyritic.
2796' - 2808'	Sandstone	White to light grey, lithic, very fine to very coarse grained sandstone. Grades from sandstone to sandy siltstone with silty shale interbeds.
2808' - 2810'	Siltstone	Medium to dark grey, 20% argillaceous content, pyritic.
2810' - 2830'	Shale	Medium to dark grey, 30% lithic siltstone.
2830' - 2840'	Shale-Siltstone	Medium to dark grey. 20-50% lithic siltstone and 80-50% shale, plant remains.
2840' - 2850'	Shale-Siltstone	Medium to dark grey with a brownish tinge. 20-80% lithic siltstone and 80-20% shale, hard and shiny.
2850' - 2870'	Shale-Siltstone	Medium to dark grey with a brownish tinge. 20-80% lithic siltstone and 80-20% shale.
2870' - 2880'	Shale-Siltstone	Medium to dark grey with a brownish tinge. 20-80% lithic siltstone and 80-20% shale, micaceous. Rare quartzite stringers.
2880' - 2900'	Shale-Siltstone	Medium to dark grey with a brownish tinge. 20-80% lithic siltstone and 80-20% shale.
2900' - 2910'	Shale-Siltstone	Medium to dark grey with a brownish tinge. 20-80% lithic siltstone and 80-20% shale, pyritic.
2910' - 2920'	Shale	Medium to dark grey, 20% lithic siltstone, micaceous, rare quartzite stringers.

2920' - 2940'	Shale	Medium to dark grey, 20% lithic siltstone, pyritic.
2940' - 2960'	Shale	Medium to dark grey, 20% lithic siltstone, pyritic and micaceous.
2960' - 2970'	Shale	Medium to dark grey, 20% lithic siltstone.
2970' - 3000'	Shale	Medium to dark grey, 20% lithic siltstone, rare quartzite stringers.
3000' - 3020'	Shale	Medium to dark grey, 20% lithic siltstone.
3020' - 3022'	Sandstone	Light brown-grey, very fine to fine grained, quartzitic.
3022' - 3040'	Shale	Medium-dark grey, 20% lithic siltstone.
3040' - 3050'	Shale	Medium-dark grey, 10% lithic siltstone.
3050' - 3056'	Shale	Medium to dark grey, 10% lithic siltstone, pyritic.
3056' - 3060'	Sandstone	Light brown grey, very fine to fine grained, quartzitic sandstone.
3060' - 3068'	Shale	Medium to dark grey, 10% lithic siltstone, plant remains,pyritic.
3068' - 3070'	Sandstone	Light brown grey, very fine to fine grained, quartzitic sandstone.
3070' - 3074'	Shale	Medium to dark grey, 10% lithic siltstone.
3074' - 3080'	Sandstone	White-brown, very fine to fine grained, quartzitic.
3080' - 3086'	Shale	Medium to dark grey, 20% lithic siltstone, pyritic.
3086' - 3090'	Sandstone	White-brown, quartzitic, very fine to fine grained.
3090' - 3096'	Shale	Medium to dark grey, 20% lithic siltstone.
3096' - 3108'	Sandstone	White-brown, very fine to medium grained, quartzitic (35% lithic).

3108' - 3110'	Shale	Medium to dark grey, 20% lithic siltstone, pyritic, carbonaceous.
3110' - 3116'	Siltstone-Sandstone	Brown-grey, siltstone to very fine grained sandstone, lithic - minor quartzitic,10% argillaceous content.
3116' - 3120'	Shale	Medium to dark grey, 20% lithic siltstone, pyritic.
3120' - 3122'	Siltstone-Sandstone	Brown-grey, siltstone to very fine grained sandstone, lithic, 10% argillaceous content.
3122' - 3130'	Shale	Medium to dark grey, 20% lithic siltstone, pyritic, plant remains.
3130' - 3140'	Shale	Medium to dark grey, lithic siltstone content grades from 0 to 20%.
3140' - 3144'	Sandstone	Light brown-grey, quartzitic, very fine to fine grained.
3144' - 3150'	Shale	Medium to dark grey, trace of lithic siltstone, pyritic, coal chips.
3150' - 3154'	Sandstone	White-brown, quartzitic, very fine to fine grained.
3154' - 3160'	Shale	Dark grey, pyritic.
3160' - 3164'	Sandstone	White-brown, quartzitic, very fine to fine grained.
3164' - 3170'	Shale	Medium to dark grey, lithic siltstone grades from 0 to 20%.
3160' - 3170'		Band of siliceous ironstone.
3170' - 3174'	Sandstone	White-brown, lithic, very fine to fine grained.
3174' - 3180'	Shale	Dark grey, trace of lithic siltstone, shale fissile in parts.
3180' - 3184'	Sandstone	White-brown, quartzitic, very fine to medium grained.
3184' - 3190'	Shale	Medium to dark grey, trace of lithic siltstone.

3190' - 3194'	Sandstone	White-brown, lithic, very fine to medium grained.
3194' - 3200'	Shale	Medium to dark grey.
3190' - 3200'		Band of siliceous ironstone.
3200' - 3206'	Siltstone-Sandstone	Brown grey, lithic siltstone to fine grained sandstone, 10% argillaceous content, rare coal chips.
3206' - 3210'	Shale	Medium to dark grey, 10% lithic siltstone, coal chips.
3210' - 3214'	Sandstone	White to brown-grey, lithic, very fine to fine grained.
3214' - 3220'	Siltstone-Sandstone	White to brown-grey, lithic siltstone to very fine grained sandstone, 10% argillaceous content.
3220' - 3224'	Sandstone	White to brown-grey, lithic, very fine to fine grained.
3224' - 3230'	Siltstone-Sandstone	White to brown-grey, lithic siltstone to very fine grained sandstone, 10% argillaceous content, pyritic.
3230' - 3234'	Sandstone	White, lithic, very fine to fine grained sandstone.
3234' - 3236'	Siltstone-Sandstone	Brown-grey, lithic siltstone to very fine grained sandstone, 10% argillaceous content.
3236' - 3240'	Shale	Dark grey.
3240' - 3244'	Sandstone	White, lithic, very fine to fine grained sandstone.
3244' - 3246'	Siltstone-Sandstone	Brown-grey, lithic siltstone to very fine grained sandstone, 10% argillaceous content.
3246' - 3250'	Shale	Dark grey, trace of lithic siltstone.
3250' - 3254'	Sandstone	White, lithic, very fine to fine grained.
3254' - 3256'	Siltstone-Sandstone	Brown-grey, lithic siltstone to very fine grained sandstone, 10% argillaceous content.

3256' - 3260'	Shale	Dark grey.
3260' - 3266'	Sandstone	White, lithic, very fine to medium grained, siliceous in part.
3266' - 3270'	Shale	Medium to dark grey, trace of lithic siltstone, pyritic.
3270' - 3274'	Sandstone	White-brown, lithic, very fine to fine grained.
3274' - 3280'	Shale	Medium to dark grey, trace of lithic siltstone, few coal chips.
3280' - 3282'	Sandstone	White, lithic, very fine to fine grained.
3282' - 3290'	Siltstone-Sandstone	Medium to dark grey, lithic siltstone to very fine grained sandstone, 10% argillaceous content. Some red siltstone chips, minor silty shale interbeds.
3290' - 3294'	Sandstone	White, lithic, very fine to coarse grained, trace of dolomite, subrounded-rounded, contains tripolitic chert.
3294' - 3300'	Siltstone	Medium to dark grey, lithic with 10% argillaceous content, pyritic.
3300' - 3302'	Sandstone	White-brown, very fine to medium grained, lithic, siliceous in part.
3302' - 3310'	Siltstone	Medium to dark grey, lithic with 10% argillaceous content.
3310' - 3312'	Sandstone	White-brown, lithic, very fine to medium grained, siliceous in part.
3312' - 3320'	Siltstone-Sandstone	Medium to dark grey, lithic siltstone to very fine grained sandstone, plant remains, 10% argillaceous content.
3320' - 3322'	Sandstone	White-brown, lithic, very fine to medium grained.
3322' - 3330'	Siltstone	Medium to dark grey, lithic with 10% argillaceous content. Rare siliceous ironstone chips.

3330' - 3332'	Sandstone	White-brown, lithic, quartzitic in part, very fine to medium grained.
3332' - 3340'	Siltstone-Shale	Medium to dark grey. 10-90% lithic siltstone and 90-10% shale, pyritic.
3340' - 3346'	Siltstone-Sandstone	White-brown, quartzitic siltstone to very fine grained sandstone.
3346' - 3350'	Shale	Medium to dark grey, trace of lithic siltstone, carbonaceous fragments.
3350' - 3354'	Siltstone-Sandstone	White-brown, lithic (quartzitic in part) siltstone to very fine grained sandstone.
3354' - 3360'	Shale	Medium to dark grey, trace of lithic siltstone, good plant stem.
3360' - 3364'	Siltstone-Sandstone	White-brown, quartzitic siltstone to very fine grained sandstone.
3364' - 3370'	Shale	Medium to dark grey, trace of lithic siltstone.
3370' - 3374'	Siltstone-Sandstone	White-brown, quartzitic siltstone to very fine grained sandstone.
3374' - 3380'	Shale	Medium brown grey, trace of lithic siltstone, few coal chips.
3380' - 3388'	Siltstone-Sandstone	White-brown, lithic siltstone to medium grained sandstone, trace to 5% dolomitic content, siliceous, hard.
3388' - 3390'	Shale	Medium to dark grey, trace of lithic siltstone, pyritic.
3390' - 3392'	Siltstone-Sandstone	White-brown, quartzitic siltstone to fine grained sandstone.
3392' - 3400'	Shale	Medium to dark grey, trace of lithic siltstone, micaceous.
3400' - 3402'	Sandstone	White, lithic, very fine to medium grained sandstone.

3402' - 3410'	Shale	Medium to dark grey, trace of lithic siltstone, pyritic, carbonaceous.
3410' - 3416'	Sandstone	White-brown, quartzitic, very fine to medium grained.
3416' - 3420'	Shale	Medium to dark grey, trace of lithic siltstone, pyritic.
3420' - 3426'	Sandstone	White-brown, lithic, very fine to medium grained.
3426' - 3430'	Shale	Medium to dark grey, trace of lithic siltstone, pyritic.
3430' - 3434'	Siltstone-Sandstone	White-brown, lithic, mostly siliceous, siltstone to medium grained sandstone.
3434' - 3440'	Shale	Medium to dark grey, trace of lithic siltstone, carbonaceous and pyritic.
3440' - 3446'	Siltstone-Sandstone	White-brown, lithic, siltstone to medium grained sandstone.
3446' - 3450'	Shale	Medium to dark grey, trace of lithic siltstone.
3450' - 3454'	Sandstone	White-brown, lithic, very fine to medium grained.
3454' - 3460'	Shale	Medium to dark grey, lithic siltstone content grades from a trace to 50%.
3460' - 3470'		No Sample.
3470' - 3472'	Sandstone	White, lithic, very fine to medium grained.
3472' - 3480'	Shale	Medium to dark grey, trace of lithic siltstone.
3480' - 3484'	Sandstone	White-brown, lithic, very fine to medium grained.
3484' - 3490'	Shale	Medium to dark grey, trace of lithic siltstone.
3490' - 3500'		No Sample.

TOTAL DEPTH 3500'

SHELL, PEEL RIVER YT B-6 (NO. 6)

66° 35' 09.4" N.
134° 45' 37.5" W.

Sidewall Core

1310	Shale	Medium to dark grey, 20% lithic silt content.
1404	Siltstone	Medium to dark grey, lithic, 20% argillaceous content, soft, micaceous.
1499	Sandstone	White, lithic, very fine to medium grained.
1599	Siltstone-Sandstone	White, lithic siltstone to fine grained sandstone, siliceous in part.
1712	Shale	Medium to dark grey, slightly silty.
1810	Shale	Medium to dark grey, 40% lithic silt content, pyritic.
1955	Shale	Medium to dark grey, slightly silty.
2299		Not Recovered.
2311	Sandstone	White, lithic, very fine to medium grained.
2416	Sandstone	White, lithic, very fine to medium grained, rounded to sub-rounded, contains tripolitic chert, 85% of the sandstone is quartzitic.

Sidewall Core

2443	Shale	Medium to dark grey, 40% lithic silt content.
2612	Shale	Medium to dark grey, slightly silty and dolomitic, minor carbonaceous flecks.
2625	Shale	Medium to dark grey, slightly silty and dolomitic, minor carbonaceous flecks.
2652	Sandstone	Light grey, lithic, very fine to coarse grained.
2694	Sandstone	White, lithic, very fine to pebble size, 8% quartzitic, very poorly sorted, rare chert pebbles.
2784	Sandstone	White, lithic, very fine to very coarse grained.
2805	Sandstone	White to light grey, lithic, very fine to very coarse grained.
2895	Shale	Medium to dark grey with brown, 20% lithic silt content.
3005	Shale	Medium to dark grey, 20% lithic silt content.
3098	Sandstone	White-brown, very fine to medium grained, quartzitic (35% lithic).

Sidewall Core

3195	Shale	Medium to dark grey.
3292	Sandstone	White, lithic, very fine to coarse grained, slightly dolomitic, subrounded to rounded, contains tripolitic chert.
3390	Shale	Medium to dark grey, slightly silty and dolomitic, pyritic.
3491	Shale	Medium to dark grey, slightly silty.

Section III - Engineering Summary

(a) Report of Drill Stem Tests

Test No.	Interval	T. O.	IFP	FFP	ISIP/Time	FSIP/Time	Recovery
3	2619-2844	69 min.	952	1190	1337/36 min.	1326/66 min.	2590' (15.5 Bbls.) Partly gasified water

DST No. 3 charts forwarded February 1, 1967.

(b) Casing Record

Size	Weight	Grade	Amount	Depth	Cement
20"	Conductor Pipe			28' K.B.	170 Portland + 2% $CaCl_2$
13 3/8"	61#	J-55	17 Jts.	630.64' K.B.	600 Portland + 2% $CaCl_2$
9 5/8"	36#	J-55	38 Jts.	1218.64' K.B.	250 Portland + 2% $CaCl_2$ Recemented with 30 sacks + 1 sack $CaCl_2$

(c) Bit Record

Number	Size	Type	Depth Out	Feet Cut	Hours Run
1 B	12¼	S-4	372	372	22¼
2 B	12¼	S-3	637	280	11¾
1	17½	Reamer	630	130	42¼
3 B	12¼	S-3	1067	430	18
4 B	12¼	S-3	1218	151	10¾
3	6¾	M4NJ	1492	274	6¾
4	6¾	H74GJ	1583	91	5¼
5	6¾	H74GJ	1698	115	5¼
6	6¾	H74GJ	1802	104	4¼
7	6¾	H74GJ	1988	186	8
5 A	6¾	RG7xJ	2679	691	24½
8	6¾	RG7xy	2844	165	7¾
RR8	6¾	RG7xy	3010	331	15¼
9	6¾	RG7xy	3397	387	16½
RR8	6¾	RG7xy	3427	30	3
10	6¾	H7UGJ	3470	43	3¼
11	6¾	H7UGJ	3500	30	3½

T.G. EASTLAND — testers ltd.

R.R. No. 6 · NORTH EDMONTON, ALBERTA — PHONE 799-3321

TEST No. One
Date Dec. 22, 1966
Ticket No. 103

SERVICE REPORT

Well Name	Shell Peel River YT B-6	Loc.	
Formation Tested	Sand	TOOL ASSEMBLY	
Interval	1035' To 1412' | Tail Pipe 15'	Components	Length
First Flow	mins. | Initial Shut-in 42 mins.		
Second Flow	60 mins | Final Shut-in 30 mins.		
Maximum Formation Temp.	58 °F		
Fluid Cushion	Amount		
Total Fluid Recovered	80'		
Flow Rate	Mcf/d Pitot Tube w/Water/Merc. ins.		
Side Static Press. Gauge	psig.		
Type of Test: Standard Dual			
Fluid Description	80' mud		
Remarks	On initial pre-flow, reset tool twice. Weak initial puff - dead in 1 mins. Tool opened - weak initial puff - reset in 10 mins. Lost 10' mud.		
Was tool chased?	No		
Did mud level drop?	Yes		
When did mud level drop?			
Started in Hole	6:30 am | Out of Hole 3:30 pm		
Main Hole: Depth	1412' Size 6 3/4"		
Rat Hole: Depth	Size		
Casing: Depth	Size Weight		
Drill Pipe Size	3 1/2" IF		
Drill Collar: Size	I.D. Length 22 drill collars		
Type of Packer(s)	Conv. No. of Packers 2	Witnesses	
Size of Packer Rubber	5 7/8"	Co. Rep.	R. Cumbers
Bottom Choke Size	1/2" | Surface Choke Size	Tester	W. J. McKay
Drilling Fluid Type		Toolpusher	R. Magnan
Viscosity 265	Weight 12.9 W.L. 3.5	Drlg. Cont.	Regent Rig 21

PRESSURE DATA

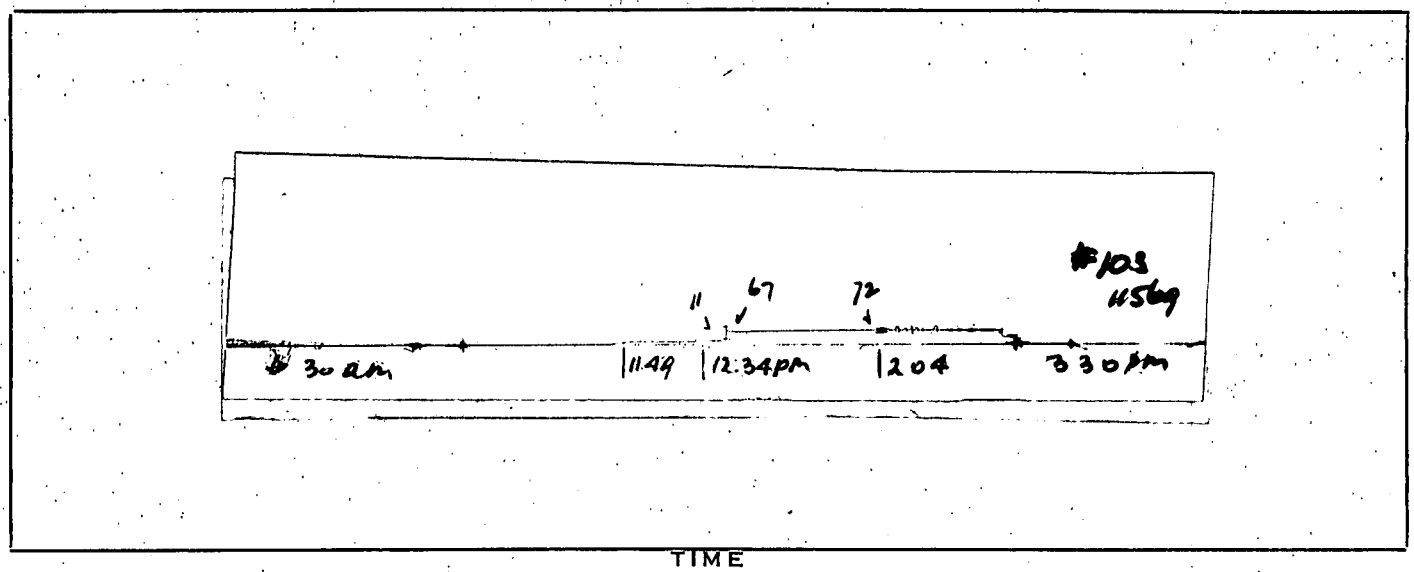
	Field Estimate	Corrected Readings		
Recorder Number		11569	12538	12541
Recorder Capacity (psig)		3000	2600	2700
Recorder Depth		1005'	1051'	1057'
Recorder Position				
Clock Capacity (hours)		12	12	12
Initial Hydrostatic	731		675	678
Initial Shut-in	387	11	353	355
Initial Flow	43	67	37	38
Final Flow	86	2	91	93
Final Shut-in	129	72	143	146
Final Hydrostatic	731		675	678

T.G. EASTLAND — testers ltd.

TEST No. One
Date Dec. 22, 1966
Ticket No. 103

WELL NAME Shell Peel River YT B-6

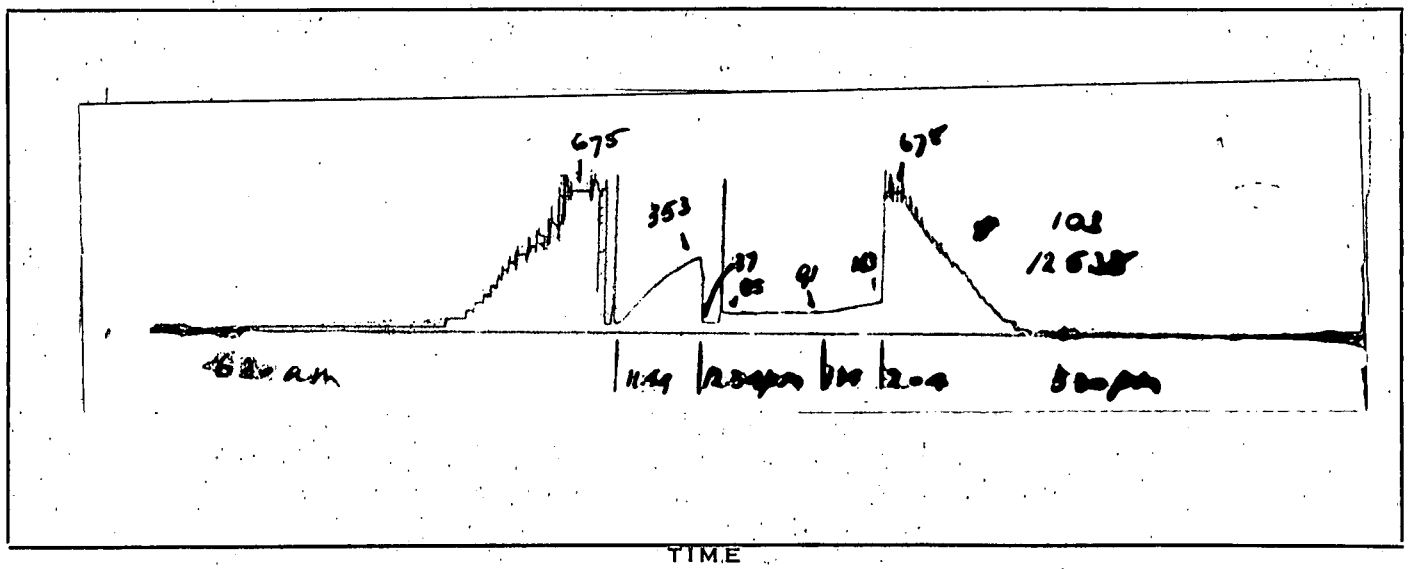
RECORDER No. 11569 ELEMENT RANGE 0-3000 P.S.I. CHART SPEED 12 HRS. RECORDER DEPTH 1005'



PRESSURE

TIME

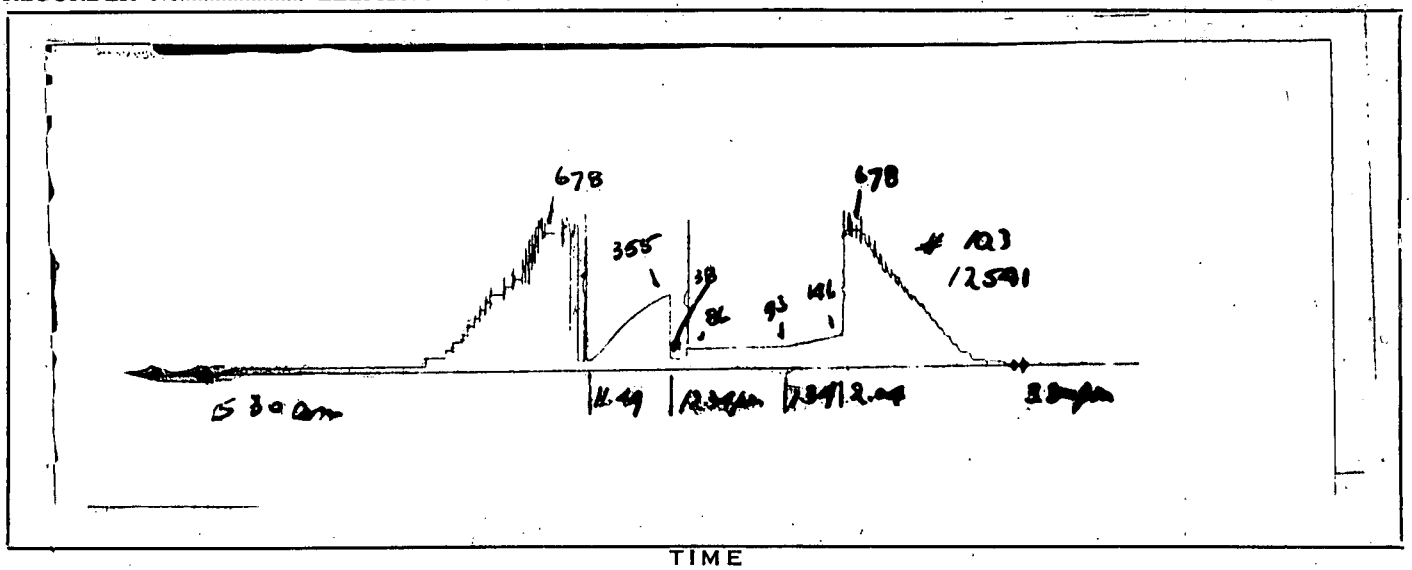
RECORDER No. 12538 ELEMENT RANGE 0-2600 P.S.I. CHART SPEED 12 HRS. RECORDER DEPTH 1051'



PRESSURE

TIME

RECORDER No. 12541 ELEMENT RANGE 0-2700 P.S.I. CHART SPEED 12 HRS. RECORDER DEPTH 1057'



PRESSURE

TIME

T.G. EASTLAND — testers ltd.

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

TEST No. One
Date Dec. 22, 1966
Ticket No. 103

DRILL STEM TEST PRESSURE REPORT

WELL NAME Shell Peel River YT B-6 L.S.D.

INTERVAL 1035'-1412'KB FORMATION Sand B.H. TEMP. °F 58

GAUGE No. 12538 DEPTH OF ELEMENT 1051' CALIBRATION EQUATION Pc 1304.76-12.37

	Time	T	Pressure psig
Initial Hydrostatic			675
Initial Shut-in	11:49am	0	30
	11:52	3	58
	11:55	6	76
	11:58	9	108
	12:01pm	12	138
	12:04	15	172
	12:07	18	196
	12:10	21	221
	12:13	24	242
	12:16	27	266
	12:19	30	285
	12:22	33	301
	12:25	36	315
	12:28	39	332
	12:31	42	344
	12:34	45	353
Flowing Pressure		F_1	37
		F_2	85
		F_3	91
Final Shut-in	1:34pm	0	91
	1:37	3	97
	1:40	6	102
	1:43	9	108
	1:46	12	113
	1:49	15	118
	1:52	18	123
	1:55	21	129
	1:58	24	134
	2:01	27	139
	2:04	30	143
Final Hydrostatic			675

SHELL CANADA LIMITED

PRODUCTION LABORATORY ANALYSIS REPORT

CALGARY, ALBERTA

Laboratory Number 3
WATER

Sample Received DECEMBER 30 1966
Sample Analyzed JANUARY 30 1967
Results Reported JANUARY 31, 1967

Well SHELL PEEL RIVER Y.T. B-6 66° 35' 09.4" N 134° 45' 37.5" W
Lsd ____ Sec ____ Twp ____ Rge ____ W ____ Formation SANDSTONE CRETACEOUS
Method of production DST #2 10225' - 11412'
DST Recovery 60.0' [0.2B] MUD, 60.0' [0.2B] MC WATER, GAS TSTM, 1/2 MIN. @ <100 MCFPD
Sample obtained from ABOVE SHUT IN TOOL, #6; FIELD #2146

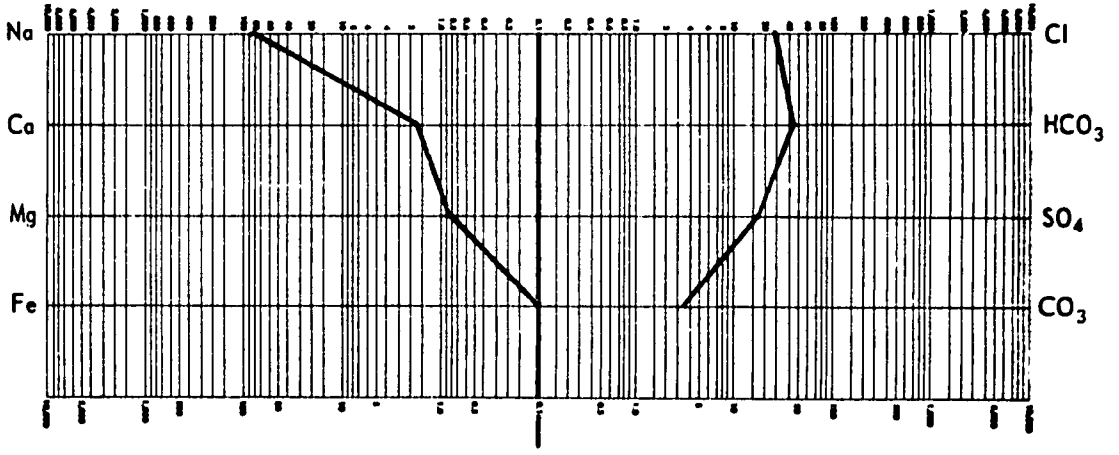
Well K.B. 214.4 G.L. 202.0
T.D. 11412 P.B.T.D. 11412
Perfs. or O.H. ____
Sampled by R. EADE
Date DEC. 23, 1966 Time ____

Specific Gravity at 60°F 1.0095 pH 8.8 Resistivity 1.47 ohm-m at 60°F H_2S NONE Calculated Total Solids 6562 Mg/L

	Calc. Na + K	Ca	Mg	Fe				CO_3	HCO_3	SO_4	Cl	
Mg./L	2028	~34	~10	0				108	2574	825	983	
MEQ./L	88.17	1.70	0.82	0				3.60	42.19	17.18	27.72	
MEQ. %	48.62	0.94	0.45	0				1.98	23.26	9.47	15.28	

Remarks:
FILTER PRESS FILTRATE DARK AMBER
$SO_4^=$ POSSIBLY HIGH

Milliequivalents per Litre



File Code No. 15-1100
Production Department, Calgary Area 1
Division Office EXPLOIT. EDM. 5
Production Laboratory, Calgary Area 2

Chemist N. L. Johnson

CGL-4

CHEMICAL & GEOLOGICAL LABORATORIES LTD.

Edmonton — Fort St. John — Calgary

GAS ANALYSIS REPORT: Lab. No. E67-2679 Received: Dec. 28, 1966 Reported: Jan. 11, 1967

Well: Shell Peel R. Y.T.B6 Operator: Shell Canada Limited

Field or Area: Location: 66° 35' 09.4"N. 134° 45' 37.5"W. Elev.: K.B. 214.4' Grd. 202.0'

Zone and Formation: Miss.-Dev. Sample Interval: 1025' - 14 12

Well production at sampling time: Oil bpd; Gas MCFD; Water bpd.

Sampled from: Sampled by: R. Eade Date: Dec. 23, 1966

Pressure: (a) at point of sampling 38 psig (b) Gas Bomb pressure 38 psig

Temperature: (a) at point of sampling -20 °F (b) Separator °F

Pressures: Reservoir Tubing Casing Separator

OTHER PERTINENT DATA Recovery: 60.0' (0.2 Bbls) Mud. 60.0' (0.2 Bbls) M/C Water 2100 ppm NaCl. Method of production: D.S.T. #2. Perforations or Open Hole Interval: 1025 - 1412 (387') Well T.D. 1412 P.B.T.D. 1412. Sample Number: 1938

COMPOSITION	% by Volume	G.P.M. in Imp. Gal. @ 60°F. & 14.65 PSIA
Helium		
Hydrogen sulfide	.00	
Carbon dioxide	.15	
Oxygen	.00	
Nitrogen	3.63	
Methane	95.74	
Ethane	.45	
Propane	.03	.007
Isobutane	Trace	.000
N-butane	Trace	.000
Isopentane	.00	.000
N-pentane	.00	.000
Hexanes	.00	.000
Heptanes +	.00	.000
TOTAL	100.00	.007

G.P.M. (Calculated)

pentanes +	.000
at 12 lbs.	.000
at 15 lbs.	.000
at 22 lbs.	.000
at 26 lbs.	.000

SPECIFIC GRAVITY

Calculated	.572
by Weight	.574

CRITICALS (Calculated)

Pc	667.3
Tc	340.3

VAPOR PRESSURE (Calc.) of pentanes + .00

H_2S Grains per 100 cu. ft. @ 60°F. & 14.65 p.s.i.a. 0

GROSS B.T.U. (Calc.) @ 60°F. & 14.65 p.s.i.a. 972.8

DEW POINT (Calc.) p.s.i.

	950	1050	1200
FAH	-60-	-60-	-60-

REMARKS

Sample was received with a pressure of 40 psig. at 74°F.

T.G. EASTLAND — testers ltd.

R.R. No. 6 · NORTH EDMONTON, ALBERTA – PHONE 799-3321

TEST No. Two
Date Dec. 23, 1966
Ticket No. 104

SERVICE REPORT

Well Name	Shell Peel River YT B-6			Loc.	
Formation Tested	Sand Miss. Dev.			TOOL ASSEMBLY	
Interval	1025' To 1412'	Tail Pipe	387'	Components	Length
First Flow	1 mins.	Initial Shut-in	30 mins.		
Second Flow	90 mins	Final Shut-in	90 mins.		
Maximum Formation Temp.	38 °F				
Fluid Cushion	Amount				
Total Fluid Recovered	120'				
Flow Rate	Mcf/d Pitot Tube w/Water/Merc.		ins.		
Side Static Press. Gauge			psig.		
Type of Test: Standard Dual					
Fluid Description	60' mud. 60' muddy water. 2100PPM				
Remarks	Strong air blow on preflow. Good air blow. Gas to surface in 30 seconds, TSTM. Filled gas bottles twice.				
Was tool chased?	No				
Did mud level drop?	No				
When did mud level drop?					
Started in Hole	5:15 am	Out of Hole			
Main Hole: Depth	1412'	Size	6 3/4"		
Rat Hole: Depth		Size			
Casing: Depth	Size	Weight			
Drill Pipe Size	3 1/2" IF				
Drill Collar: Size	I.D. Length	22 drill collars			
Type of Packer(s)	Conv.	No. of Packers	2	Witnesses	
Size of Packer Rubber	5 7/8"			Co. Rep.	R. Cumbers
Bottom Choke Size	1/2"	Surface Choke Size		Tester	W.J. McKay
Drilling Fluid Type				Toolpusher	
Viscosity	269 Weight 12.9	W.L.	3.5	Drlg. Cont.	Regent Rig No. 21

PRESSURE DATA

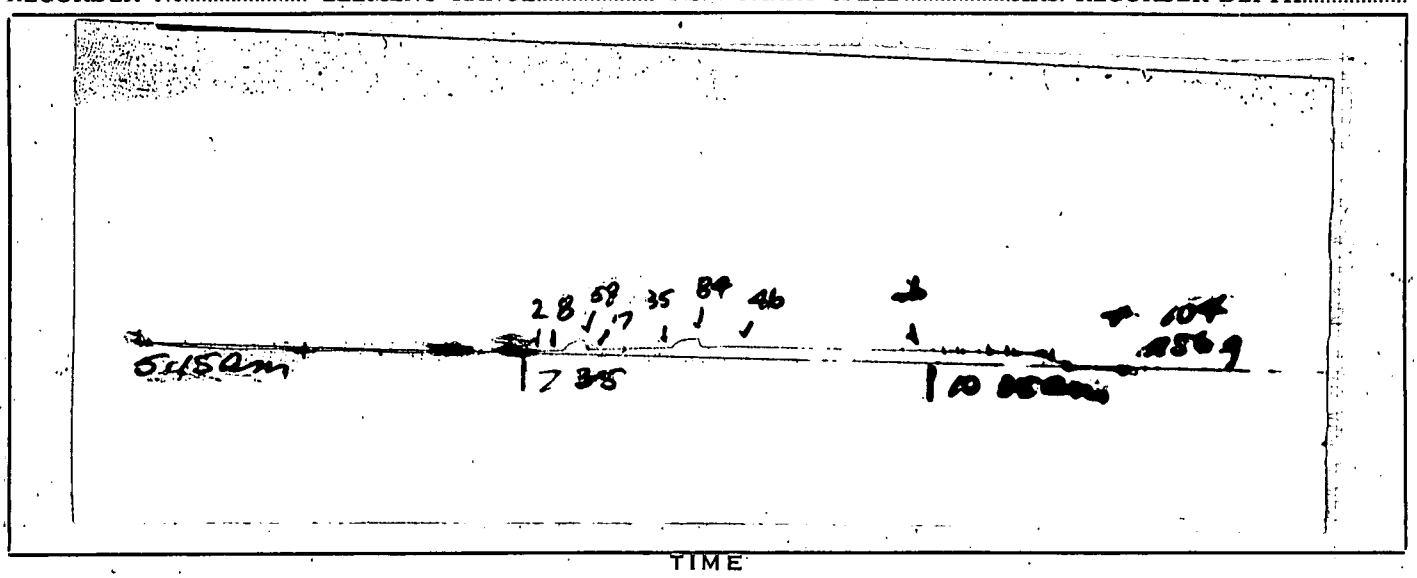
	Field Estimate	Corrected Readings		
Recorder Number		11569	12538	12541
Recorder Capacity (psig)		3000	2600	1054
Recorder Depth		1002'	1048'	1054'
Recorder Position				
Clock Capacity (hours)		12	12	12
Initial Hydrostatic	709		665	668
Initial Shut-in	699		663	666
Initial Flow	27	2	19	21
Final Flow	75	46	62	62
Final Shut-in	699	46	662	665
Final Hydrostatic	699		665	668

T.G. EASTLAND — testers ltd.

TEST No. Two
Date Dec. 23, 1966
Ticket No. 104

WELL NAME Shell Peel River YT B-6

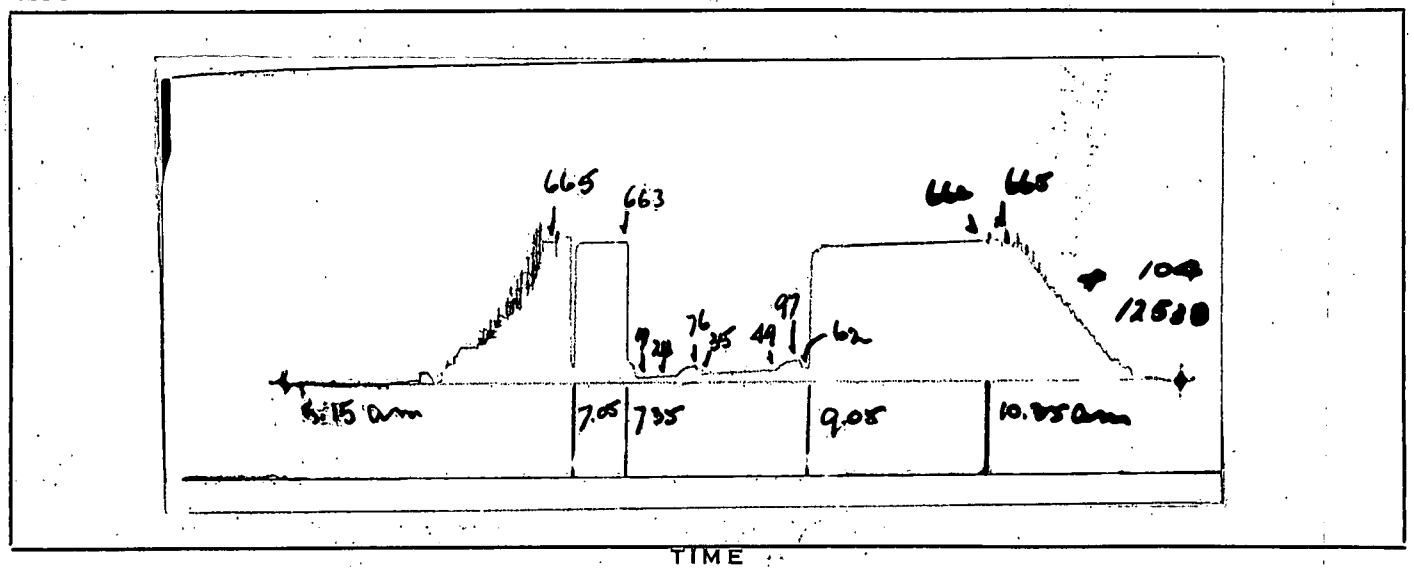
RECORDER No. 11569 ELEMENT RANGE 0-3000 P.S.I. CHART SPEED 12 HRS. RECORDER DEPTH 1002'



PRESSURE

TIME

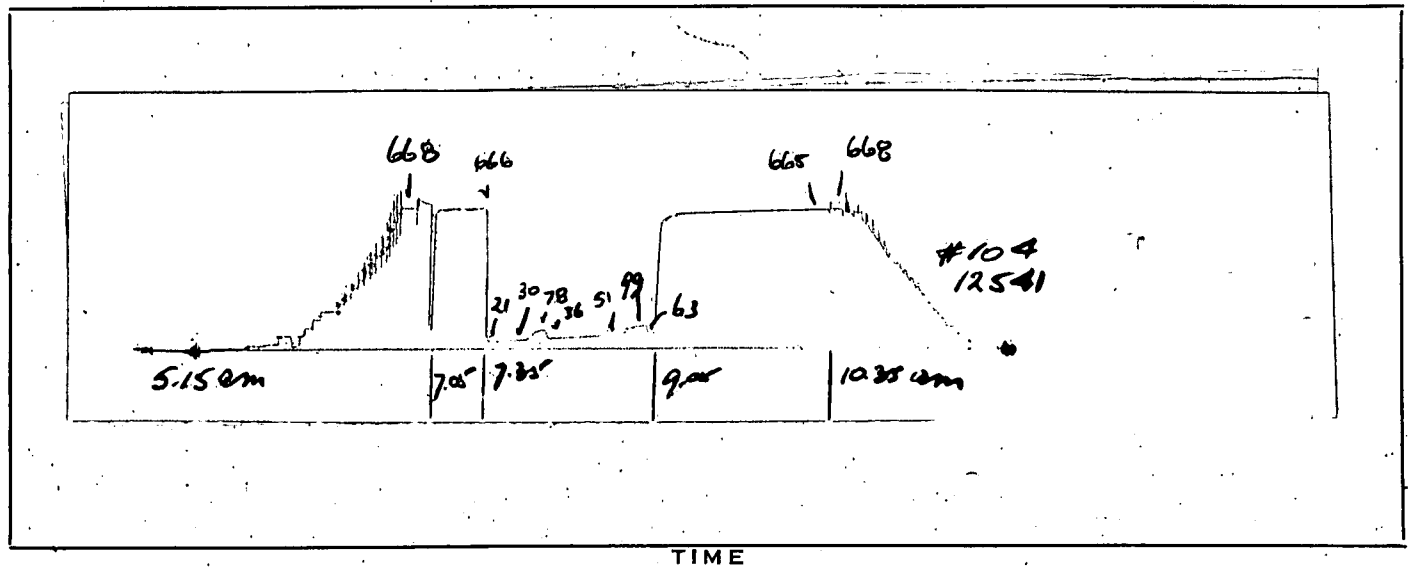
RECORDER No. 12538 ELEMENT RANGE 0-2600 P.S.I. CHART SPEED 12 HRS. RECORDER DEPTH 1048'



PRESSURE

TIME

RECORDER No. 12541 ELEMENT RANGE 0-2700 P.S.I. CHART SPEED 12 HRS. RECORDER DEPTH 1054'



PRESSURE

TIME

T.G. EASTLAND — testers ltd.

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

TEST No. T.W.O
Date Dec. 23, 1966
Ticket No. 104

DRILL STEM TEST PRESSURE REPORT

WELL NAME Shell Peel River YT B-6 L.S.D.

INTERVAL 1025'-1412' KB FORMATION Sand. Miss. Dev. B.H. TEMP. °F 38

GAUGE No. 12538 DEPTH OF ELEMENT 1048'KB CALIBRATION EQUATION Pc 1304.76-12.37

	Time	T mins	Pressure psig
Initial Hydrostatic			665
Initial Shut-in	7:05am	0	71
	7:08	3	641
	7:11	6	658
	7:14	9	662
	7:17	12	663
	7:20	15	663
	7:23	18	663
	7:26	21	663
	7:29	24	663
	7:32	27	663
	7:35	30	663
Flowing Pressure		F_1	19
		F_2	28
		F_3	76
		F_4	35
		F_5	49
		F_6	97
		F_7	62
Final Shut-in	9:05am	0	62
	9:08	3	610
	9:11	6	630
	9:14	9	636
	9:17	12	640
	9:20	15	643
	9:23	18	645
	9:26	21	648
	9:29	24	650
	9:32	27	650
	9:35	30	653
	9:38	33	653
	9:41	36	654
	9:47	42	654
	9:53	48	656
	9:59	54	656

Time	T mins	Pressure psig
10:05am	60	657
10:11	66	658
10:17	72	660
10:23	78	661
10:29	84	662
10:35	90	662
Final Hydrostatic ---		665

B. H. J. Thorn

T.G. EASTLAND — testers ltd.

R.R. No. 6 - NORTH EDMONTON, ALBERTA — PHONE 799-3321

TEST No. Three
Date Jan. 18, 1967
Ticket No. 105

SERVICE REPORT

Well Name	Shell Peel River # YT-B-6A
Formation Tested	Mississippian
Interval	2619' To 2844' | Tail Pipe 225'
First Flow	5 mins. | Initial Shut-in 36 mins.
Second Flow	69 mins | Final Shut-in 66 mins.
Maximum Formation Temp.	95 °F
Fluid Cushion	Amount
Total Fluid Recovered	2590'
Flow Rate	Mcf/d Pitot Tube w/Water/Merc. ins.
Side Static Press. Gauge	psig.
Type of test:	Standard dual
Fluid Description	2590' gassified slightly salty water.
Remarks	Good initial puff. Good air blow. Noticed gas to surface at 45 mins. Water to surface in 55 minutes. Flow hose froze when water hit surface. Temp. -45°. Well flowed from annulus throughout test.
Was tool chased?	No
Did mud level drop?	No
When did mud level drop?	
Started in Hole	10:30am | Out of Hole 5:00 pm
Main Hole: Depth	2844' Size 6 3/4"
Rat Hole: Depth	Size
Casing: Depth	Size Weight
Drill Pipe Size	3 1/2" IF
Drill Collar: Size	I.D. Length 27 drill collars
Type of Packer(s)	Conv. No. of Packers 2
Size of Packer Rubber	5 3/4"
Bottom Choke Size	1/2" | Surface Choke Size
Drilling Fluid Type	
Viscosity	28 Weight 8.8 W.L.

Loc. Artic Circle

TOOL ASSEMBLY

Components	Length
Pump-out sub	1.00
Test tool	8.90
Equalizing valve	2.40
Jars	7.70
Safety joint	2.20
Packers	10.00
Bomb carrier	6.95
C.O.S.	1.00
Perf.	10.00
C.O.S.	.60
Bomb	6.35
Perf.	2.00
D.P.D.C.	202.00
Perf.	1.45

Witnesses

Co. Rep.	R. W. Miller
Tester	W. J. McKay
Toolpusher	R. Shafferie
Drlg. Cont.	Regent Rig 21

PRESSURE DATA

	Field Estimate	Corrected Readings		
Recorder Number		11569	12538	12541
Recorder Capacity (psig)		3000	2600	2700
Recorder Depth		2588'	2630'	2637'
Recorder Position				
Clock Capacity (hours)		12	12	12
Initial Hydrostatic	1204		1148	1150
Initial Shut-in	1376	93	1334	1337
Initial Flow	989	1307	951	952
Final Flow	1225	1161	1188	1190
Final Shut-in	1376	1200	1324	1326
Final Hydrostatic	1204	Gauge run above tool	1155	1158

T.G. EASTLAND — testers ltd.

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

TEST No. Three
Date Jan. 18, 1967
Ticket No. 105

DRILL STEM TEST PRESSURE REPORT

WELL NAME Shell Peel River #YTB-6A L.S.D.

INTERVAL 2619'-2844'KB FORMATION Mississippian B.H. TEMP. °F 95

GAUGE No. 12541 DEPTH OF ELEMENT 2637'KB CALIBRATION EQUATION Pc 1351.91-19.09

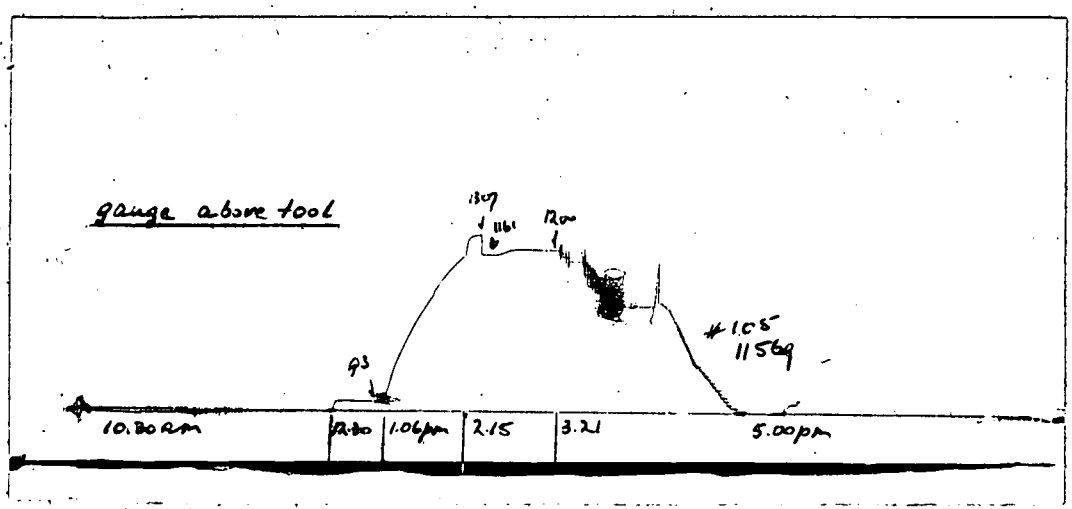
	Time	T mins	Pressure psig
Initial Hydrostatic ----------			1150
Initial Shut-in	12:30pm	0	1118
	12:33	3	1306
	12:36	6	1317
	12:39	9	1323
	12:42	12	1326
	12:45	15	1329
	12:48	18	1331
	12:51	21	1333
	12:54	24	1334
	12:57	27	1336
	1:00	30	1336
	1:03	33	1337
	1:06	36	1337
Flowing Pressure ----------		F_1	952
		F_2	1190
Final Shut-in	2:15pm	0	1190
	2:18	3	1292
	2:21	6	1304
	2:24	9	1310
	2:27	12	1313
	2:30	15	1315
	2:33	18	1317
	2:36	21	1318
	2:39	24	1319
	2:42	27	1319
	2:45	30	1321
	2:48	33	1321
	2:51	36	1322
	2:54	39	1322
	2:57	42	1323
	3:00	45	1323
	3:03	48	1325
	3:06	51	1325
	3:09	54	1325
	3:12	57	1326
	3:15	60	1326
	3:18	63	1326
	3:21	66	1326
Final Hydrostatic ----			1158

T.G. EASTLAND — testers ltd.

TEST No. Three
Date Jan. 18, 1967
Ticket No. 105

WELL NAME Shell Peel River #YTB-6A

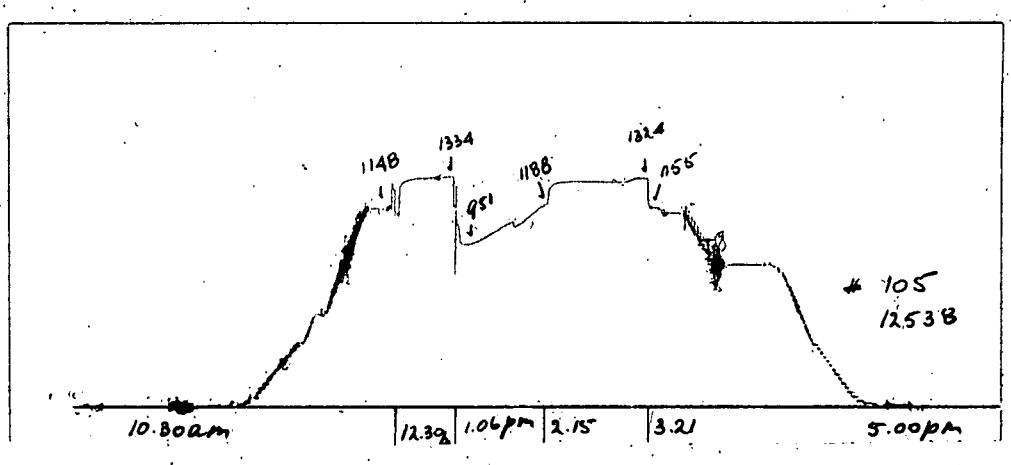
RECORDER No. 11569 ELEMENT RANGE 0-3000 P.S.I. CHART SPEED 12 HRS. RECORDER DEPTH 2588'



PRESSURE

TIME

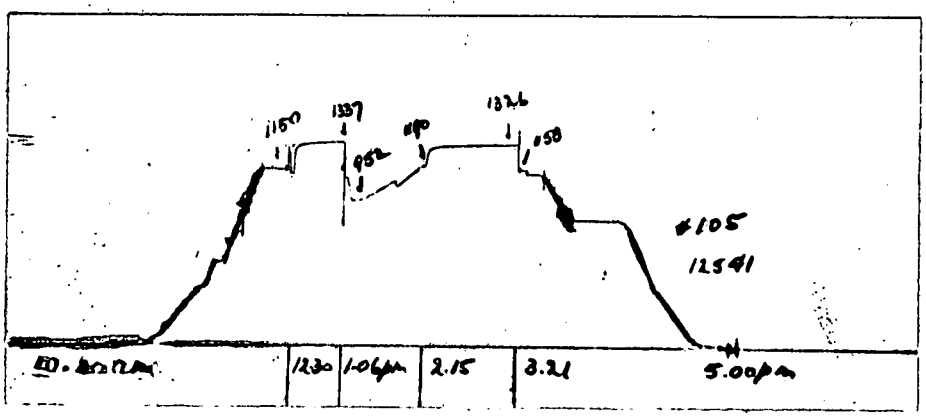
RECORDER No. 12538 ELEMENT RANGE 0-2600 P.S.I. CHART SPEED 12 HRS. RECORDER DEPTH 2630'



PRESSURE

TIME

RECORDER No. 12541 ELEMENT RANGE 0-2700 P.S.I. CHART SPEED 12 HRS. RECORDER DEPTH 2637'



PRESSURE

TIME

CHEMIC & GEOLOGICAL LABORATORIES LTD. WATER ANALYSIS Lab No. E67-3032

Received: Feb. 3, 1967 Reported: Feb. 8, 1967 Well: Location: Shell Peel R. YTB-6A 66° 35' 9.5" N. 134° 45' 40" W.

Operator: Shell Canada Limited Field or Area:

Elev.: K.B. 217.4' Grd. 205' Zone/Formation: Mississippian Sample Interval: 2619' - 2844' (225')

Method of Production: D.S.T. #3 Sampled from: 2590' Sampled by: R. W. Miller Date: Jan. 18, 1967

OTHER PERTINENT DATA Sample #4. Temperature at point of sampling: -45°F. Well T.D.: 3500; P.B.T.D.: 3500.

Recovered 2590 (15.5 bbls) partly gasified water

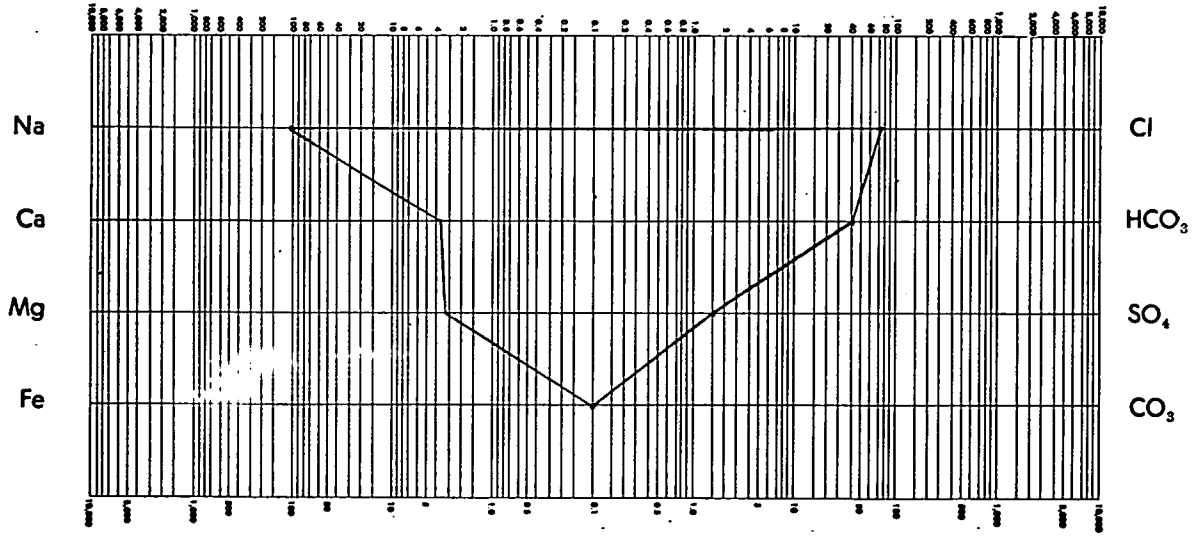
(Signed)

	Na	K	Ca	Mg					SO_4	Cl			CO_3	HCO_3		
Mg./L	2532		75	41					77	2642				2510		
Meq./L	110.15		3.74	3.37					1.60	74.50				41.16		
Meq. %	46.97		1.59	1.44					0.68	31.77				17.55		

Total Solids Mg/L: By Evaporation 6,932 Fe Trace Specific Gravity 1.006 @60°F Observed pH 8.3 @ 76 °F

Calculated 7,877 After Ignition 5,996 H_2S Nil Refractive Index 1.3370 @25°C Resistivity 1.05 ohm meters @ 68 °F

Pattern Unit Meq./L



Remarks and Conclusions

The sample consisted of yellowish brown coloured water containing some sediment.

Organic matter detected in evaporated total solids.

(d) Mud Report

Caustic Soda	Peltex	Bentonite	Quick-Vis	Barium Carbonate	Bicarbonate of Soda
2200 lbs.	16200 lbs.	34200 lbs.	2 gallons	117200 lbs.	400 lbs.

(e) Deviation Record

Depth (feet)	Deviation (Degrees)
100'	1 1/4°
132'	3/4°
180'	3/4°
210'	3/4°
240'	3/4°
300'	7/8°
360'	1°
419'	1°
448'	1 1/4°
500'	3/4°
560'	7/8°
637'	1/2°
957'	1/4°
1450'	1 1/2°
1550'	1°
1698'	1 1/2°
1975'	1 1/4°
2679'	6°
2825'	5°
3000'	4 1/4°
3390'	4°

(f) Abandonment Plugs

Date	Interval	Sacks Cement and Additives	Remarks
1/24/67	3500-3400	35 Portland	Did not tag
1/24/67	2855-2250	180 Portland + 2% $CaCl_2$	Tagged @ 2238'
1/25/67	1270-1170	50 Portland + 2% $CaCl_2$	Tagged @ 1170'
1/25/67	Surface 9 5/8" Casing	10 Portland	Cut off 9 5/8" casing
1/25/67	40' to Surface of 13 3/8" Casing	25 Portland	Cut off 13 3/8" casing Weld on name plate.

(g) Lost Circulation Zones

None

(h) Report of Blowouts

None

Section IV - Logs

Date	Interval	Type
1/22/67	3493-1219	Induction Electric
1/22/67	3493-1219	Microlog Caliper
1/23/67	3492-1219	Borehole Compensated Sonic
1/23/67	3492-1219	Compensated Formation Density
1/23/67	3488-1219	Velocity Survey

Section V - Analysis

(a) Core Analysis

Sidewall core analysis (refer to sample Discription)
Sidewall cores forwarded.

(b) Water Analysis

See Attachment

(c) Gas Analysis

None

(d) Oil Analysis

None

Section VI - Completion Summary

(a) Tubing Record

None

(b) Perforation Record

None

(c) Cementation Record

Plug No.	Date	Interval	Formation	Cement	Remarks
1	1/24/67	3500-3400	Mississippian	35 Portland	
2	1/24/67	2855-2250	Mississippian	180 Portland + 2% $CaCl_2$	Tagged @ 2238
3	1/25/67	1270-1170	Mississippian	50 Portland + 2% $CaCl_2$	Tagged @ 1170
4	1/25/67	Surface		10 Portland	Cut off 9 5/8" Casing
5	1/25/67	Surface to 40'		25 Portland	Cut off 13 3/8" Welded on name plate.

(d) Acidization and Fracturing Record

None

(e) Back Pressure and Production Tests

None