

SECRET
OR
NY 1-1

WELL HISTORY REPORT

OF

SHELL FIELD R YF L-1

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SECTION I SUMMARY OF WELL DATA

WELL NAME AND NUMBER

Shell Tool R. Y.T.L-1

PERMITTEE

Shell Canada Limited

NAME OF OPERATOR

Shell Canada Limited

LOCATION

Unit L Section 1 Grid 66° 40' 134° 45'
Latitude 66° 30' 38.32" Longitude 134° 46' 28.47"

Permit No.

3612

DRILLING CONTRACTOR

Regent Drilling Ltd. Rig #21

DRILLING AUTHORITY NO.

No. 210 *Issued December 7, 1965*

CLASSIFICATION

Wildcat

ELEVATION

G.L. 1282.0 K.B. 1295.0

DATE SPUDDED

12:01 A.M. December 12, 1965

DATE COMPLETED DRILLING

February ³ 1966

TOTAL DEPTH AND PLUGGED BACK TOTAL DEPTH

T.D. = 6020 P.B.T.D. = Surface

WELL STATUS

Plugged, Dry and Abandoned

RIG RELEASED

2-7-66 12:00 Midnight

SECTION I CONTINUED

HOLES LISTED

24" to 53', K.B. 6 1/4" to 6020' K.B.
13 3/4" to 655 K.B.

CASING

20" Conductor Set at 53' K.B. with
165 sacks Fort and 2 1/2 CaCl₂

9 5/8" J55 36# New casing, set at 655' K.B. with
550 sacks Fort and 2 1/2 CaCl₂

SECTION II GEOLOGICAL SUMMARY

	<u>K.B. LEV.</u>	<u>SUBJ.E.</u>
K	0	+1295
M-D	2240	- 945
Green Event	5900	-4605

CORED INTERVALS

1. 4315 - 4335 20.0' Recovered 20.0'
2. 4455 - 4485 30.0' Recovered 30.0'
3. 5026 - 5056 30.0' Recovered 30.0'
4. 18 Sidewall Cores at Following Depths: 5510, 5210, 5103, 4800, 4730, 4750, 4615, 4550, 4418, 4410, 4380, 4337, 4290, 4200, 3310, 2988, and 2 at 2393.

CORE DESCRIPTION

Refer to sample description

SAMPLE DESCRIPTION

SHELL, PEEL RIVER YT L - I

66° 30' 38" N

A.S. 1295'

134° 46' 28" W

T.S. 5020'

40 - 80'	Shale	Medium dark grey, crypto-granular. Calcareous.
80 - 480'		Extremely poor samples.
480 - 490'	Sandstone	Medium to very fine, 40%. 30% lithic, extremely fine siltstone. Fair sorting. Sub-rounded. 20% medium dark grey shale. 10% limestone. Trace of glauconite.
490 - 500'	Sandstone	Medium to very fine, 50%. 20% lithic extremely fine siltstone. 20% medium dark grey shale. 10% limestone. Trace of pyrite.
500 - 510'	Sandstone	Fine to very fine, 40%. 20% lithic, extremely fine siltstone. 10% medium dark grey shale. 10% limestone.
510 - 520'	Sandstone	Fine to very fine, 50%. 30% lithic, sandstone. 10% medium grey shale. 10% limestone.
520 - 540'	Sandstone	Fine to very fine, 60%. 20% lithic sandstone, 10% medium grey shale. 10% limestone.
540 - 580'	Sandstone	Very fine, 50%. 20% lithic siltstone. 20% medium grey shale. 10% limestone.
580 - 610'	Sandstone	Very fine 40%. 10% lithic siltstone. 20% medium grey shale. 10% limestone.

610 - 630'	Shale	Medium grey, crypto-granular. 10% quartzitic sandstone. Trace of siltite.
630 - 650'	Shale	Medium dark grey. Crypto-granular. 10% quartzitic sandstone. Trace of siltite. 630-640': possible plant remains and possible pyrobitumen.
650 - 680'		
680 - 690'	Shale	Medium dark grey, 80%. 20% quartzitic siltstone. Extremely fine to micro-granular.
690 - 700'	Shale	Medium dark grey, 60%. 40% quartzitic siltstone, extremely fine to micro-granular.
700 - 720'	Shale	Medium dark grey, crypto-granular. 710-720': Shale, slightly bentonitic, swells in water.
720 - 730'	Shale	Medium dark grey, crypto-granular. 10% quartzitic siltstone. Extremely fine to microgranular.
730 - 770'	Shale	Medium dark grey, crypto-granular.
770 - 780'	Shale	Medium dark grey, 80%. 20% quartzitic siltstone. Extremely fine to micro-granular.
780 - 790'	Shale	Medium dark grey, 90%. 10% quartzitic siltstone. Extremely fine to micro-granular.

790 - 800'	Shale	Medium dark grey, crypto-granular.
800 - 810'	Shale	Medium dark grey, 90%. 10% quartzitic siltstone, extremely fine to micro-granular.
810 - 830'	Shale	Medium dark grey, crypto-granular.
830 - 850'		No samples.
850 - 960'	Shale	Medium dark grey, crypto-granular. Trace of pyrite at 920-940'.
960 - 980'	Shale	Medium dark grey, crypto-granular.
980 - 1060'	Shale	Medium dark grey, crypto-granular.
1060 - 1080'	Siltstone & Shale	1060-70: Siltstone, extremely fine to microgranular. 1070-80: Shale, medium dark grey, with streak of waxy dark green shale. 20% siltstone, extremely fine to microgranular.
1080 - 1140'	Siltstone & Shale	50% very fine to extremely fine sandy siltstone. 50% medium dark grey shale.
1140 - 1160'	Siltstone & Shale	50%, very fine to extremely fine sandy silt. 50% medium dark grey shale with band of ironstone. Fair cut fluorescence.
1160 - 1180'	Sandstone	Extremely fine silt. 40% medium dark grey shale with a band of shale between 1060-80'. Trace of glauconite.
1180 - 1200'	Sandstone & Shale	1180-90: 50% lithic siltstone. 50% light medium brown shale.

1180 - 1200'	Continued	1190-1200:90% fine to very fine sandstone. 10% light medium brown shale. Trace of siltite. 2% glauconite.
1200 - 1220'	Sandstone	Fine to very fine. 10% light medium brown shale. Trace of siltite. 2% Glauconitic.
1220 - 1260'	Silty Sandstone	Very fine to extremely fine, 70%. 30% medium dark brown grey, shale. 20% glauconitic. Trace of pyrite.
1260 - 1280'	Shale	Medium dark grey. 40% extremely fine to microgranular silt.
1280 - 1480'	Shale	Medium dark grey, cryptogranular. Trace of pyrite at 1400-20' & 1460-80'.
1480 - 1520'	Shale	Medium dark grey, cryptogranular. Bands of Ironstone.
1520 - 1560'	Shale	Medium dark grey, cryptogranular.
1560 - 1580'	Shale	Medium dark grey, cryptogranular. 20% extremely fine to microgranular, siltstone.
1580 - 1600'	Shale	Medium dark grey, cryptogranular. 10% extremely fine to microgranular silt.
1600 - 1620'	Shale	1600-10:80% shale, medium grey. 20% silt. Trace of dark coloured glauconite. Micaceous. 1610-20:95% shale, medium grey. 5% silt. Trace of pyrite & coal. Trace of ironstone.

1620 - 1680'

Shale

1620-30:Sh,medium grey, 20% silt. Trace dark coloured glauconite. Micaceous.
 1630-40:Shale,medium grey. 3% silt. Traces of pyrite, coal and ironstone.
 1640-50:Shale,medium grey, 20% silt. Trace of dark coloured glauconite. Micaceous.
 1650-1660:Shale, medium grey. 5% silt. Traces of pyrite, coal and ironstone.
 1660-70:Shale, medium grey. 20% silt. Trace dark coloured glauconite. Micaceous.
 1670-1680:Shale,medium grey. 5% silt. Traces of pyrite, coal and ironstone.

1680 - 1810'

Shale

1680-90:Shale,medium grey. 20% silt. Trace of ironstone, pyrite .
 1690-1700:Shale,medium grey. 5% silt.
 1700-10:Shale,medium grey. 20% silt. Trace of ironstone and pyrite.
 1710-20:Shale,medium grey. 5% silt.
 1720-30:Shale,medium grey. 20% silt. Trace of ironstone and pyrite.
 1730-40:Shale,medium grey. 5% silt.
 1740-50:Shale,medium grey. 20% silt. Trace of ironstone and pyrite.
 1750-60:Shale,medium grey. 5% silt.
 1760-70:Shale,medium grey. 20% silt. Trace of ironstone and pyrite.
 1770-80:Shale, medium grey. 5% silt.
 1780-90:Shale, medium grey. 20% silt. Trace of ironstone and pyrite.
 1790-1800:Shale, medium grey. 5% silt.
 1800-10:Shale,medium grey. 20% silt. Trace of ironstone and pyrite.

1810 - 1820'	Shale	Medium grey, cryptogranular. Trace of Ironstone and Limestone. 5% extremely fine to microgranular siltstone.
1820 - 1830'	Shale	Medium grey. 10% silt with trace of ironstone, pyrite and siltite. Micaceous.
1830 - 1840'	Shale	Medium grey. Trace of ironstone and pyrite.
1840 - 1850'		Medium grey. 20% silt. Trace of ironstone and streak of coal.
1850 - 1860'	Shale	Medium grey. 5% silt. Trace of ironstone.
1860 - 1880'	Shale	Medium grey. 10% silt. Trace of pyrite. Trace of ironstone.
1880 - 1890'	Shale	Medium grey. 10% silt. Trace of ironstone. Streak of coal.
1890 - 2000'	Shale	Medium grey. 10% silt. Pyrite traces. Traces of bioclastic debris. Micaceous.
2000 - 2010'	Shale	Medium dark grey. 5% silt. Trace of ironstone.
2010 - 2020'		Missing sample.
2020 - 2050'	Shale	Medium dark grey. 5% silt. Trace of pyrite, siltite and ironstone. 2030-40: Trace of bioclastic debris.
2050 - 2070'	Silt & Shale	2050-55: Shale, medium dark grey. 5% silt. Some glauconite. 2055-60: Silt, extremely fine to microgranular. 10% shale, medium dark grey. Micaceous. Bioclastic debris.

2050 - 2070'	Continued	2060-65:Shale, medium dark grey. 5% silt. Some Glauconite. 2061-70:Silt, extremely fine to microgranular. 10% shale, medium dark grey. Micaceous. Some bioclastic debris.
2070 - 2080'	Shale	2070-75:Shale, medium dark grey. 30% fine-silt quartz grains. Trace of pyrite. 2075-80:Fine to extremely fine quartz. 10% medium dark grey shale.
2080 - 2090'	Shale	Dark grey. Micaceous. 30% quartz.
2090 - 2100'		Missing sample.
2100 - 2130'	Shale	Medium dark grey. Cryptogranular. 10% silt, extremely fine to microgranular. Traces of ironstone and pyrite. Micaceous.
2130 - 2170'	Shale	Medium dark grey. Cryptogranular. 10% silt, extremely fine to microgranular. Micaceous.
2170 - 2180'		2170-75:Shale, medium dark grey. Cryptogranular. Micaceous. 2175-80:90% shale, medium dark grey. 10% coarse quartz grains. Rounded.
2180 - 2200'		2180-85:Shale, medium dark grey. Cryptogranular. Micaceous. 2185-90:90% shale, medium dark grey. 10% coarse quartz grains. 2190-95:Shale, medium dark grey. Cryptogranular. Micaceous. 2195-2200:90% shale, medium dark grey. 10% coarse quartz grains. Rounded.

2200 - 2210'	Shale	2200-05:Shale,80% medium brown grey. 20% quartz coarse grained. Rounded. 2205-10:Shale, 60% medium brown grey with 40% quartz. Coarse grained. Rounded.
2210 - 2215'		Shale, 40% medium brown grey with 20% coarse quartz. Rounded.
2215 - 2250'		2220:Shale, 60% medium brown grey with 40% quartz. Coarse grained and rounded. 2220-25:80% shale, medium brown grey with 20% coarse grained quartz. Rounded. 2225-30:40% shale, medium brown grey with 40% coarse grained quartz. Rounded. 2230-35:80% shale, medium brown grey with 20% coarse grained quartz. Rounded. 2235-40:60% shale, medium brown grey with 40% coarse grained quartz. Rounded. 2240-45:80% shale, medium brown grey with 20% coarse grained quartz. Rounded. 2245-50:60% shale, medium brown grey with 40% coarse grained coarse. Rounded.
2250 - 2260'		2250-55:80% shale, medium brown grey. 20% silt. Trace of ironstone and siltstone. 2255-60:Shale, medium brown grey. Trace of silt.
2260 - 2280'		2260-65:80% shale,medium brown grey. 20% silt. Trace of ironstone and siltite. 2265-70:Shale, medium brown grey. Trace of silt. 2270-75:80% shale, medium brown grey. 20% silt. Trace of ironstone and siltite. 2275-80:Shale, medium brown grey. Trace of silt.

2280 - 2290'	2280-85: Sandstone, quartzitic and lithic. Argillaceous. 0-10% shale, medium brown grey. Trace of ironstone and pyrite. Plant remains.
	2285-90: 80% shale, medium brown grey. 20% sandstone, quartzitic, lithic and argillaceous.
2290 - 2300'	2290-95: Shale, medium brown grey. 30% silt. Trace of ironstone. Trace of plant remains. 2295-2300: Shale, medium brown grey. 20% silt. Trace of ironstone. Plant remains.
2300 - 2400'	As 2290 - 2300'. Every 5' as described above.
2450 - 2460'	2250-55: white, sand. Lithic. Silty. Trace of clay. Trace of ironstone and plant remains.
	2255-60: Shale, medium brown grey. 30% silt.
2460 - 2470'	2460-65: Medium brown grey shale. 30% lithic sand, very fine to silt.
	2465-70: Medium brown grey, shale. 20% lithic sand, very fine to silt.
2470 - 2490'	2470-75: Medium brown grey, shale. 30% lithic sand, very fine to silt. 2475-80: medium brown grey, shale. 20% lithic sand. Very fine to silt.
2490 - 2500'	2490-95: white, sandstone, very fine to microgranular. Trace of medium brown grey shale. Plant remains. 2495-2500: medium brown grey shale. 30% white sandstone, very fine to microgranular. Plant remains.

2500 - 2510'

2500-05:Medium brown grey, shale. 30% very fine sand to silt.

2505-10:Medium brown grey, shale. 20% very fine sand to silt. Plant remains.

2510 - 2570'

2510-15:Medium brown grey, shale. 30% very fine sandy silt.

2515-20:Medium brown grey, shale. 20% very fine sandy silt. Plant remains.

Micaceous.

2520-25:Medium brown grey, shale. 30% very fine sandy silt. Plant remains.

2525-30:medium brown grey, shale. 20% very fine sandy silt. Plant remains.

Micaceous.

2530-35:medium brown grey, shale. 30% very fine sandy silt. Plant remains.

2535-40:medium brown grey, shale. 20% very fine sandy silt. Plant remains.

2540-45:medium brown grey, shale. 30% very fine sandy silt. Plant remains.

2545-50:medium brown grey, shale. 20% very fine sandy silt. Plant remains.

2550-55:medium brown grey, shale. 30% very fine sandy silt. Plant remains.

2555-60:medium brown grey, shale. 20% very fine sandy silt. Plant remains.

2560-65:medium brown grey, shale. 30% very fine sandy silt. Plant remains.

2565-70:medium brown grey, shale. 20% very fine sandy silt. Plant remains.

2570 - 2680'

Shale

Medium brown grey. 20% very fine sand to silt. Traces of ironstone. Trace of plant remains. Trace of siltite. Some micaceous.

2680 - 2770'	Shale	Medium brown grey. 20% very fine sand to silt. Lithic. Traces of ironstone, plant remains, and siltite. Micaceous.
2770 - 2780'	Shale	2770-75:Medium dark brown shale. Trace of lithic siltstone. Trace of ironstone and plant remains. 2775-80:Medium dark brown shale. 20% lithic siltstone.
2780 - 2790'	Shale	2780-85:medium dark brown shale. Trace of lithic siltstone. Traces of ironstone and plant remains. 2785-90:medium dark brown shale. 20% lithic siltstone.
2790 - 2830'	Shale	2790-95:medium dark brown shale. Trace of lithic siltstone. Traces of ironstone and plant remains. 2795-2800:medium dark brown shale. 20% lithic siltstone. 2800-05:medium dark brown shale. Trace of lithic siltstone. Traces of ironstone and plant remains. 2805-10:medium dark brown shale. 20% lithic siltstone. 2810-15:medium dark brown shale. Trace of lithic siltstone. Traces of ironstone and plant remains. 2815-20:medium dark brown shale. 20% lithic siltstone. 2820-25:medium dark brown shale. Trace of lithic siltstone. Traces of ironstone and plant remains. 2825-30:medium brown grey shale. 20% lithic siltstone.
2830 - 2840'	Shale	2830-35:Medium dark brown. Trace of lithic siltstone. 2835-40:Medium dark brown. 10% silt, lithic. Ironstone trace.

2840 - 2860'	Shale	2840-45:Medium dark brown. Trace of lithic siltstone. 2845-50:Medium dark brown. 10% silt, lithic. Trace of ironstone. 2850-55:Medium dark brown. Trace of lithic siltstone. 2855-60:Medium dark brown. 10% silt, lithic. Trace of ironstone.
2860 - 2950'	Shale	Dark brown, cryptogranular. Trace of silt. Traces of pyrite.
2950 - 2980'	Shale	Medium brown. 20% silt. Trace of ironstone. Traces of coal. Trace of siltite. Micaceous.
2980 - 2990'		2980-85:Shale, medium brown. Trace of silt, ironstone and pyrite. Trace of siltite. 2985-90:Shale, medium brown. 20% silt. Traces of ironstone, pyrite and siltite.
2990 - 3000'	Shale	Medium dark brown. 10% silt.
3000 - 3015'	Shale	Medium dark brown grey. Trace of lithic siltstone.
3015 - 3020'	Sandstone	White, fine to microgranular.
3020 - 3030'	Sandstone	White, coarse to fine.
3030 - 3040'	Sandstone	White, coarse to fine. Band of shale.
3040 - 3050'	Sandstone	White, coarse to fine. Trace of plant remains.
3050 - 3060'	Shale	Medium dark brown grey. 10% very fine to silt.
3060 - 3066'	Sandstone	Light grey. Fine to extremely fine. Band of 10% silty shale. Very hard and quartzitic.

3066 - 3070'	Shale	Medium dark brown grey. 10% very fine to microgranular lithic sandstone.
3070 - 3100'	Sandstone	White. Lithic, quartz and white tripolitic chert. Quartzitic, tight. Plant remains.
3100 - 3105'	Shale	Medium dark brown grey. 10% lithic siltstone. Band of lithic sandstone.
3105 - 3110'		Band of medium to very fine lithic sandstone.
3110 - 3125'	Silty Sandstone	White, medium to extremely fine.
3125 - 3140'	Shale	Medium dark brown grey. 10% silt.
3140 - 3150'	Sandstone	Very light brown, medium to very fine. Lithic.
3150 - 3160'	Sandstone	Very light grey, fine to extremely fine. Lithic.
3160 - 3190'	Sandstone	White, medium to very fine. Lithic.
3190 - 3200'	Shale	Medium dark brown grey. 10% silt.
3200 - 3225'	Sandstone	White, medium to extremely fine.
3225 - 3235'	Shale	Medium dark brown grey. 10% silt.
3235 - 3255'	Silty Sandstone	White. Fine to extremely fine.
3255 - 3260'	Shale	Medium dark brown grey. 10% extremely fine silt.
3260 - 3265'	Silty Sandstone	White. Fine to extremely fine. Lithic.
3265 - 3270'	Shale	Medium dark brown grey. 10% silt.

3270 - 3300'	Sandstone	white. Medium to very fine. Lithic.
3300 - 3390'	Shale	Dark brown grey. Cryptogranular.
3390 - 3400'	Shale	Very dark grey. Cryptogranular.
3400 - 3470'	Shale	Dark brown grey. Cryptogranular. Band at 3440-50: Chert nodules and pyrite. Few Dolomite crystals. Fractured filling? Band at 3460-70: Chert
3470 - 3480'	Siltstone	Extremely fine to cryptogranular. 40% medium dark brown grey shale. Pyrite trace.
3480 - 3495'	Shale	Medium dark brown grey. 30% silt.
3495 - 3500'	Sandstone	Band of white, medium to very fine sandstone.
3500 - 3505'	Shale	Medium dark brown grey. 10% silt.
3505 - 3520'	Sandstone	white. Medium to very fine.
3520 - 3525'	Shale	Medium dark brown grey. 20% silt.
3525 - 3530'	Sandstone	White. Medium to very fine.
3530 - 3540'	Shale	Medium dark brown grey. 10% silt.
3540 - 3545'	Sandstone	white. Fine to very fine.
3545 - 3550'	Shale	Medium dark brown grey. 10% silt.
3550 - 3555'	Shale	Medium dark brown grey. 20% silt.
3555 - 3560'	Sandstone	Medium dark brown grey. Fine to very fine.

3560 - 3565'	Shale	Medium dark grey. 20% silt.
3565 - 3570'	Sandstone	Medium dark brown grey. Fine to very fine.
3570 - 3585'	Shale	Medium dark brown grey. 30% silt.
3585 - 3590'	Sandstone	White. Fine to very fine. Banded.
3590 - 3605'	Shale	Medium dark brown grey. 20% silt.
3605 - 3610'	Sandstone	White. Fine to very fine. Band 1st/10" laminated.
3610 - 3615'	Shale	Medium dark brown grey. 20% silt.
3615 - 3620'	Sandstone	Band of white, fine to very fine sandstone.
3620 - 3630'	Shale	Dark brown grey. 10% lithic siltstone. Slight brown cast.
3630 - 3640'	Shale	Dark brown grey, cryptogranular.
3640 - 3690'	Shale	Medium dark brown grey, cryptogranular.
3690 - 3700'	Shale	Medium dark grey. Cryptogranular. Streak of ironstone. Trace of pyrite.
3700 - 3710'	Shale	Medium dark brown grey. Cryptogranular. Streak of ironstone. Trace of pyrite.
3710 - 3720'	Shale	Dark grey. Cryptogranular.
3720 - 3730'	Shale	Dark grey. Band of ironstone.
3730 - 3740'	Shale	Dark grey. Cryptogranular.
3740 - 3750'	Shale	Medium dark brown grey. Cryptogranular. Very hard, siliceous. 20% silt. Band of ironstone.

3750 - 3760'	Shale	Medium dark brown grey. Very hard, siliceous. 20% silt.
3760 - 3770'	Shale	Medium dark brown grey. Very hard, siliceous. 30% silt. Band of iron- stone. Bioclastic debris. Ostracod?
3770 - 3780'	Shale	Medium dark brown grey. 10% silt.
3780 - 3790'	Shale	Medium dark brown grey. Cryptogranular.
3790 - 3800'	Shale	Medium dark brown grey. 10% silt.
3800 - 3805'	Shale	Medium dark brown grey. Cryptogranular. 30% extremely fine to micro- granular silt.
3805 - 3810'	Sandstone	Banded fine to very fine.
3810 - 3820'	Shale	Medium dark brown grey. Cryptogranular. 40% very fine to silt.
3820 - 3830'	Shale	Medium dark brown grey. 10% silt. Band of fine to very fine lithic sandstone.
3830 - 3840'	Sandstone	White. Fine to extremely fine, sandy silt. Plant remains.
3840 - 3850'	Sandstone	Fine to microgranular; carbonaceous. 10% medium grey shale. Plant remains.
3850 - 3860'	Sandstone	Very fine to microgranular. 40% medium grey shale. Plant remains.
3860 - 3870'	Sandstone	Very fine to microgranular. 40% medium dark grey shale.
3870 - 3880'	Sandstone	Fine to microgranular. 30% medium dark grey shale.

3880 - 3890'	Shale	Medium dark grey. 30% silt. Band of fine to very fine lithic sandstone.
3890 - 3900'	Shale	Medium dark grey. 30% silt.
3900 - 3910'	Shale	Medium dark grey. 30% silt. Band of fine to very fine lithic sandstone.
3910 - 3920'	Shale	Medium dark grey. 40% silt.
3920 - 3930'	Shale	Medium dark grey. Fine to very fine lithic sandstone band.
3930 - 3960'	Shale	Medium dark grey. 40% silt. Trace of pyrite at 3950-60.
3960 - 3970'	Shale	Medium dark grey. 30% silt.
3970 - 3980'	Shale	Medium dark brown grey. 40% very fine to silt. Few medium chert grains floating. Plant remains.
3980 - 3990'	Shale	Medium dark brown grey. 30% silt.
3990 - 4000'	Shale	Dark grey with streak of chert. Trace of pyrite.
4000 - 4020'	Shale	Dark grey with bluish lustre. Trace of pyrite.
4020 - 4040'	Shale	Medium dark brown grey. 50% very fine to silt.
4040 - 4050'	Shale	Dark grey. Cryptogranular.
4050 - 4060'	Shale	Dark grey. Streaks or nodules of chert. Very siliceous. Ironstone. Trace of pyrite.
4060 - 4070'	Shale	Medium dark brown grey. 40% silt. Band of fine to very fine lithic sandstone.

4070 - 4080'	Silty Shale	50% Medium dark brown grey, shale. 50% extremely fine to microgranular lithic siltstone. Trace of dolomite.
4080 - 4105'	Siltstone	Extremely fine to microgranular. 40% medium dark brown grey shale. Trace of dolomite.
4105 - 4110'	Sandstone	Fine to very fine band of lithic sandstone.
4110 - 4120'	Shale	Medium dark brown grey. 40% extremely fine to microgranular silt. Lithic.
4120 - 4130'	Shale	Dark grey. Cryptogranular.
4130 - 4150'	Shale	Medium dark brown grey. 40% extremely fine to microgranular silt.
4150 - 4190'	Shale	Dark grey. Trace of shert. Very siliceous. Ironstone. Pyrite. Plant remains at 4180-90'.
4190 - 4200'	Sandstone	Very fine band of fine silt. Grey shale.
4200 - 4210'	Shale	Dark grey. Cryptogranular.
4210 - 4220'	Shale	Medium dark brown grey. Cryptogranular. 10% silt.
4220 - 4260'	Shale	Medium dark brown grey. Cryptogranular.
4260 - 4270'	Shale	Medium dark brown grey. Cryptogranular. 10% silt.
4270 - 4280'	Shale	Medium dark brown grey. 20% silt with a band of fine to very fine pyritic sandstone.
4280 - 4290'	Sandy Shale	50% medium dark brown grey shale. 50% fine to very fine sandstone. Also a band in the interval.

4290 - 4295'	Shale	Medium dark brown grey. 10% silt.
4295 - 4300'	Sandstone	white. Coarse to fine.
4300 - 4305'	Shale	Medium dark grey. 10% silt.
4305 - 4310'	Sandstone	white. Very coarse to fine.
4310 - 4315'	Sandstone	white. Very coarse to fine. Hard, quartzitic, quartz and tripolitic white chert. Some pyritic cement.
4315 - 4320'	Shale	Medium dark brown grey. 40% "pebbly mudstone". Chert pebbles up to 1".
4320 - 4335'	Shale	Medium dark brown grey. 20% silt.
4335 - 4350'	Shale	Medium dark brown grey. 20% silt, medium to fine sand grains floating.
4350 - 4360'	Shale	Medium dark brown grey. 20% silt. Few very coarse to fine sand grains.
4360 - 4370'	Shale	Medium dark brown grey. 30% silt very fine to microgranular. Some "pebbly mudstone"?
4370 - 4380'	Shale	Medium dark brown grey. 40% silt. Band of fine to very fine sandstone.
4380 - 4390'	Shale	Medium dark brown grey. 40% silt. Band of fine to very fine sandstone.
4390 - 4400'	Sandstone	white. Coarse to fine. Very hard and quartzitic.
4400 - 4405'	Shale	Medium dark brown grey. 10% silt. Band of coarse to fine sandstone.
4405 - 4410'	Shale	Medium dark brown grey. 20% silt. Band of very coarse to fine white, sandstone.

4410 - 4415'	Shale	Medium dark brown grey. Cryptogranular.
4415 - 4420'	Shale	Medium dark brown grey. 20% silt. Band of coarse to fine sandstone with some course to very coarse grains flating.
4420 - 4425'	Shale	Medium dark brown grey. 10% silt.
4425 - 4430'	Shale	Medium dark brown grey. 10% silt. Band of coarse to fine sandstone.
4430 - 4440'	Sandstone	White. Medium to very fine. Friable, soaks water readily, tightly compacted.
4440 - 4450'	Sandstone	White, coarse to fine. Quartz and white tripolitic chert. Angular to sub- angular. Sorting fair to poor.
4450 - 4457'	Sandstone	White. Medium to very fine.
4457 - 4485'	Sandstone	Light-medium grey. Lithic. Very coarse to fine.
4485 - 4490'	Sandstone	Light-medium grey. Coarse to very fine. 10% medium grey shale. Chert tripolitic. White, very porous appearance.
4490 - 4500'	Sandstone	White. Pebbly to very fine. Chert, 20%. Up to pebble size. Quartzitic. 10% medium grey shale.
4500 - 4510'	Sandstone	White. Chert 20%. Quartz 80% chert pebbles. Tripolitic.
4510 - 4520'	Sandstone	Light grey. Very coarse to extremely fine. 10% pebbly chert. Medium grey.
4520 - 4540'	Sandstone	Light grey. Coarse to very fine. 20% pebbly chert.

4540 - 4550'	Sandstone	Light grey. Coarse to very fine. 30% pebbly chert.
4550 - 4560'	Shale	Medium dark grey, 60%. 30% very coarse to very fine lithic sandy siltstone. 10% pebbly chert.
4560 - 4570'	Sandstone	Very coarse to very fine. 30% medium dark grey shale.
4570 - 4580'	Sandstone	pebble to extremely fine sandy silt. 30% light dark grey shale.
4580 - 4590'	Sandstone	Light grey. pebble to extremely fine. Chert pebbles. Tripolitic. Sand poorly sorted and tight.
4590 - 4600'	Sandstone	Light grey. Very coarse to extremely fine. Sandstone tight and poorly sorted. Chert tripolitic.
4600 - 4610'	Sandstone	Medium to extremely fine, 60%. 40% light-medium grey shale.
4610 - 4620'	Shale	Dark grey. Pyritic. Carbonaceous.
4620 - 4630'	Shale	Dark-light grey, 10%. Medium to extremely fine quartzitic sandstone. 40% of sandstone is chert.
4630 - 4640'	Sandstone	pebble to extremely fine. poorly sorted. 40% chert. Large chert pebbles are tripolitic. Some small ones are unweathered. 10% light dark grey shale.
4640 - 4650'	Sandstone	white. Quartz 60%. Chert 40%. Chert pebbles and granules tripolitic. Fine chert. Less weathering. Slightly carbonaceous. 20% light grey shale.

4650 - 4660'	Sandstone	sharp contrast between sandstone and shale. Quartz 60%. Chert 40%. Quartz medium. Chert very coarse.
4660 - 4670'	Sandstone	Quartz 60%. Chert 40%. Shale, carbonaceous. Quartz coarse. Chert, very coarse. Poorly sorted.
4670 - 4680'	Sandstone	Quartz 60%. Chert 40%. Unweathered chert. Tripolitic chert, very coarse.
4680 - 4690'	Sandstone	Quartz 60%. Chert 40%. Quartz to coarse. Chert is coarse. Tripolitic-odd zoned weathering. Poorly sorted. Micaceous. 20% medium grey, black shale.
4690 - 4700'	Sandstone	Quartz 60%. Chert 40%. Sandstone, silty. Black, very thin layers of carbonaceous shale.
4700 - 4710'	Sandstone	Quartz 60%. Chert 40%. Sandstone, silty. Larger particles becoming more rounded. Very poor sorting. Chert less weathered.
4710 - 4720'	Shale	Medium grey. Carbonaceous. 30% silty sand. Quartzitic 60%. 40% chert, mostly unweathered.
4720 - 4750'	Shale	Black. Carbonaceous. Very slightly silty. Micaceous. Pyrite.
4750 - 4790'	Shale	Dark grey. Trace of silt. Traces of ironstone. Traces of mica, pyrite and glauconite globs.
4790 - 4800'	Shale	Dark grey. Slightly carbonaceous. Floating quartz grains in silty ironstone. Micaceous. Trace of pyrite.

4800 - 4810'	Shale	Dark grey, carbonaceous. Floating quartz grains in silty shale. 10% silt. 10% ironstone. Plant remains and Micaceous.
4810 - 4820'	Shale	Dark grey, carbonaceous. Floating quartz grains in 10% silty shale. 10% ironstone.
4820 - 4840'	Shale	Dark grey. Trace of ironstone. Pyrite trace and Micaceous.
4840 - 4850'	Shale	Dark grey. Cryptogranular.
4850 - 4870'	Shale	Dark grey, cryptogranular. Trace of ironstone and pyrite.
4870 - 4900'	Shale	Dark grey, carbonaceous. Some mica.
4900 - 4910'	Shale	Dark grey. Trace of silt. Micaceous.
4910 - 4920'	Shale	Dark grey. 10% silt. Carbonaceous. Micaceous.
4920 - 4930'	Shale	Dark grey. 20% very fine to silt.
4930 - 4940'	Shale	Dark grey. 30% sandy silt, fine to microgranular.
4940 - 4950'	Shale	Dark grey. 10% silt.
4950 - 4960'	Shale	Dark grey. Trace of silt. Trace of ironstone.
4960 - 4970'	Shale	Dark grey. Trace of silt.
4970 - 4980'	Shale	Dark grey. 10% silt. Floating coarse quartz. Shale surrounded by pyrite layers.
4980 - 4990'	Shale	Medium grey. 30% sandy silt. Trace of ironstone. Sandstone with no tripolitic chert.

4990 - 5000'	Shale	Medium grey. 20% sandy silt. Argillaceous. Gilsonite in sandstone.
5000 - 5010'	Shale	Medium grey. 20% fine to very fine sandstone.
5010 - 5020'	Shale	Medium grey. 20% fine to microgranular sandy silt.
5020 - 5030'	Shale	Medium grey, 50%. 50% fine to microgranular sandy silt.
5030 - 5060'	Core.	Argillaceous sandstone. Strongly slumped (intereformational)
5060 - 5070'	Sandstone & Shale	Medium dark grey. Interbedded shale and sandstone. Carbonaceous. Plant remains. Band of medium to extremely fine silty sandstone.
5070 - 5080'	Shale	Medium dark grey. 30% silt. Band of medium to extremely fine silty sand.
5080 - 5090'	Silty Sandstone	Fine to extremely fine. 30% medium dark grey. Plant remains and pyrite. Band of medium to extremely fine silty sandstone.
5090 - 5100'	Sandstone and Silty shale.	Interbedded: Sandstone, medium to extremely fine. 30% medium dark grey shale.
5100 - 5110'	Silt & Shale	50% silt. 50% medium dark grey shale. Band of medium to extremely fine silty sandstone.
5110 - 5120'	Silt & Shale	50% silt. 50% medium dark grey shale. Band of medium to extremely fine sandstone.
5120 - 5130'	Shale	Medium dark grey. 50% silt.
5130 - 5150'	Shale	Medium dark grey. 20% medium to extremely sandstone silt. Thin laminated silt and shale, contorted. Band of silt. Slumped. Pyrite and plant remains.

5150 - 5160'	Shale	Medium dark grey. 40% fine to extremely fine sandstone silt. Pyrite. Micaceous.
5160 - 5180'	Shale	Medium dark grey. 20% fine to extremely fine silt. Mica. Pyrite and plant remains.
5180 - 5200'	Shale	Medium dark grey. 10% fine to extremely fine sandstone stringers. Plant remains and pyrite.
5200 - 5210'	Shale	Medium dark grey. Band of silt. Chert hard. Coarse quartz in sandstone. Pyrite and plant remains.
5210 - 5220'	Sable	Medium dark grey. 20% silt. Trace of lithic sandstone and ironstone.
5220 - 5230'	Shale	Medium dark grey. 20% silt. 10% ironstone. (Interbedded shale and sandstone, also interbedded shale and ironstone. Fine laminae or distorted.)
5230 - 5240'	Shale	Medium dark grey. 10% silt. Micaceous.
5240 - 5260'	Shale	Medium dark grey. 30% medium to extremely fine sandy silt. Carbonaceous. Plant remains. Mica.
5260 - 5300'	Shale	Medium dark grey. 10% silt. Bands of medium to extremely fine sandy silt. Plant remains.
5300 - 5310'	Shale	Medium dark grey. 30% medium to very fine sandstone. Band of silt.
5310 - 5320'	Shale	Medium dark grey. 40% medium to very fine sandstone. Band of silt. Shale, carbonaceous. Slightly calcareous. Trace of ironstone.

5320 - 5330'	Shale	Medium dark grey. 10% silt. Band of fine to extremely fine sandstone silt.
5330 - 5340'	Shale	Dark grey. Trace of fine to microgranular sandstone silt. Carbonaceous. Trace of pyrite.
5330 - 5340'	Shale	Dark grey. Carbonaceous. Trace of pyrite. Trace of silt.
5340 - 5400'	Shale	Dark grey. Cryptogranular. Trace of pyrite. Micaceous.
5400 - 5410'	Shale	Dark grey, cryptogranular. Trace of fine sandstone stringers in shale. Slightly cherty. Pyritic.
5410 - 5420'	Shale	Dark grey, cryptogranular. Pyritic.
5420 - 5430'	Shale	Dark grey. Cryptogranular. Band of fine to microgranular silt.
5430 - 5440'	Shale	Medium grey. Carbonaceous stringers. Micaceous. Plant remains. Band of fine to microgranular quartzitic silt.
5440 - 5460'	Shale	Medium grey. Band of sandstone. Coarse chert, white and light grey. Sandstone, 80% quartz, 20% chert. Micaceous, pyritic and plant remains.
5460 - 5480'	Shale	Medium grey. Carbonaceous. Trace of fine to microgranular sandy silt.
5480 - 5490'	Shale	Medium grey. Cryptogranular. Band of pebble to microgranular sandstone. Poorly sorted.

5490 - 5500'	Shale	Medium grey. Trace of medium to microgranular silt. Pyritic.
5500 - 5510'	Shale	Medium grey, cryptogranular. Band of chert pebbles with argillaceous sandstone in the matrix.
5510 - 5520'	Sandstone	Band of chert in sandstone. Pyritic.
5520 - 5560'	Shale	Medium grey. Cryptogranular. Traces of silty layers.
5560 - 5570'	Shale	Medium grey. Cryptogranular. Trace of ironstone. Bentonitic.
5570 - 5620'	Shale	Medium grey, cryptogranular.
5620 - 5630'	Shale	Medium grey, cryptogranular.
5630 - 5640'	Shale	Medium grey. Cryptogranular. Band of extremely fine to microgranular silt.
5640 - 5650'	Shale	Medium grey, cryptogranular.
5650 - 5660'	Shale	Medium grey. Carbonaceous silty shale. Trace of quartz. Trace of ironstone. Plant remains.
5660 - 5680'	Shale	Medium grey. Trace of silt. Micaceous.
5680 - 5690'	Shale	Medium grey. Band of siltstone. Pyritic.
5690 - 5740'	Sandstone	Medium grey. Chert pebbles. Tight. 5700-10: Pyrite, cement in spots.
5740 - 5750'	Shale	Medium grey. Band of pebble to fine sandstone. Plant remains.

5750 - 5760'	Shale	Medium grey. Bands of coarse to fine sandstone.
5760 - 5800'	Shale	Medium grey. Traces of very fine to microgranular sandstone silt.
5800 - 5870'	Shale	Medium grey. Bands every 10' of fine to extremely fine sandstone silt.
5870 - 5880'	Shale	Medium grey. Trace of very fine to microgranular silt.
5880 - 5900'	Shale	Medium grey. Cryptogranular.
5900 - 5910'	Shale	Medium grey. Band of very fine to extremely fine sandy silt. Trace of ironstone.
5910 - 5930'	Shale	Medium grey. Hard.
5930 - 5940'	Shale	Medium grey. Trace of silt. Flint remains.
5940 - 5950'	Shale	Medium grey. Band of fine to extremely fine sandstone silt. Carbonaceous partings.
5950 - 5960'	Shale	Medium grey. Trace of silt.
5960 - 6020'	Shale	Medium grey. Bands of sandy silt every 10'. 5960-70:carbonaceous partings. 6010-20:pyritic.

SHELL, PEEL RIVER L-1 (NO. 3)

66° 30' 38.3" N.
134° 46' 28.47" W.

Sidewall Core

2 cores @ 2393	Shale	Medium brown grey, 30% lithic silt content, trace of ironstone.
2988	Shale	Medium brown, 20% lithic silt content, slightly dolomitic, trace of ironstone, pyritic.
3310	Shale	Dark brown grey.
4200	Siltstone	Medium to dark brown grey, lithic, 40% argillaceous content.
4290	Siltstone-Shale	Medium to dark brown grey, 50% lithic siltstone, 50% shale.
4337	Shale	Medium to dark brown grey, 20% lithic silt content, few fine to medium floating sand grains.
4380	Shale	Medium to dark brown grey, 40% lithic silt content.
4410	Shale	Medium to dark brown grey, 20% lithic silt content.
4418	Shale	Medium to dark brown grey, 20% silt content.

Sidewall Core

4550	Sandstone	Light grey, lithic, fine to very coarse grained, 30% chert pebbles: angular-subangular, fair-poor sorting.
4615	Shale	Dark grey, pyritic, carbonaceous.
4730	Shale	Black, micaceous and pyritic.
4750	Shale	Black, micaceous and pyritic.
4800	Shale	Dark grey black, slightly silty, carbonaceous, micaceous and pyritic, floating quartz grains, 10% ironstone.
5103	Siltstone-Shale	Medium dark grey, 50% lithic siltstone, 50% shale, pyritic.
5210	Shale	Medium dark grey, 30% lithic silt content, pyritic.
5510	Shale	Medium grey, with a band of chert pebbles with an argillaceous sandstone matrix.

SECTION III - DRILLING SUMMARY

DRILL BIT RECORD

<u>NO.</u>	<u>INTERVAL</u>	<u>FLOW RATE & RECORD</u>	<u>TO</u>	<u>I.P.P.</u>	<u>F.P.P.</u>	<u>I.P.P./MIN</u>	<u>F.P.P./MIN</u>
1	3010-3188	130' (0.87 Bbls) w/c 60" Cut Mud		49	81	395/15 Min	386/60 Min
		I.P.P. = F.P.P. 1470 1470					
2	4392-4574	300' (2.61 Bbls) w/c mud	120"	500	1353	1732/39 Min	1718/81 Min
		300' (5.21 Bbls) w/c water 2100' (17.27 Bbls) water					
		I.P.P. F.P.P. 2117 psi 2117 psi					

CASING RECORD

20" Conductor set at 53' K.B. with 165 sacks Portland Cement plus 2% CaCl₂

9 5/8" J-55 36" New Casing set at 654.92' K.B. with 550 sacks Portland Cement plus 2% CaCl₂

SECTION III CONTINUED

BIL R. CO. ID

<u>NO.</u>	<u>DOB</u>	<u>TYPE</u>	<u>DEPT. CODE</u>	<u>FA. CODE</u>	<u>PH. / LG. NO.</u>
1A	15%	J3	426	433	12
2A	15%	J3	655	429	13
1	6%	0103	1153	41	13
2	6%	0103	1506	433	10
3	6%	0303	2000	41	11
4	6%	0303	2322	432	11
5	6%	J4	2387	35	7
6	6%	J7	2516	100	12
7	6%	J7	2646	130	12
8	6%	N4H	2752	116	7
9	6%	N4H	3003	10	11
10	6%	S6	3031	145	9
11	6%	S6	3036	35	4
12	6%	YH	3109	43	7
13	6%	YH	3146	37	7
14	6%	H7UJ	3188	42	6
15	6%	H7UJ	3252	64	8
16	6%	H7UJ	3304	52	8
17	6%	H8UJ	3432	100	11
18	6%	H7UJ	3500	38	7
19	6%	YHW2J	3520	30	8
20	6%	YHW2J	3563	33	5
21	6%	H7UJ	3610	47	10
22	6%	H7UJ	3787	100	10
23	6%	H7UJ	3801	100	10
24	6%	H7UJ	3815	100	10
25	6%	H7UJ	3833	100	10
26	6%	H7UJ	3907	100	11
27	6%	H7UJ	3923	16	5
28	6%	H7UJ	3998	75	14
29	6%	YHW2J	4023	25	13
30	6%	H7UJ	4144	121	13
31	6%	J7	4272	128	19
32	6%	N4L	4277	5	2
33	6%	H7UJ	4297	20	6
34	6%	YHW2J	4315	100	5
35	4 11/16		4335	100	5
36	6%	RRG-3	4336	1	2
37	6%	H7UJ	4366	30	3
38	6%	H7UGJ	4413	47	12
39	6%	H7UGJ	4425	12	7
40	6%	CGR	4455	30	3
A41	4 11/16		4485	30	3
RR36	6%	RRG-3	4485	Remaining	5
RR40	6%	CGR	4552	67	8
41	6%	H7UG	4573	21	3
42	6%	H7UG	4608	35	6
43	6%	RG7X	4759	151	25
44	6%	H7UJ	4764	5	4

SECTION III CONTINUED

III RIGGS

<u>NO.</u>	<u>AGE</u>	<u>TYPE</u>	<u>DEATH COST</u>	<u>FOUNDED</u>	<u>YRS./ACRES</u>
45	6%	R3PX	4779	15	8%
46	6%	H7UJ	4788	9	3%
47	6%	YHW2	4839	31	12%
48	6%	YHW2	4815	25	12%
49	6%	YHW2	4936	21	7%
50	6%	YHW2	4995	39	10%
51	6%	YHW2	5010	19	6%
52	6%	YHW2	5026	16	5%
RR35	11/16		5056	30	11%
RR36	6%	YHW2	5053	Roaring	4%
RR45	6%	R37X	5163	107	20%
53	6%	R37XJ	5226	63	16%
54	6%	H7U-J	5231	5	3%
55	6%	YCG	5264	33	15%
56	6%	YHW2J	5284	20	5%
57	6%	YHW2J	5290	6	4%
58	6%	R37XJ	5322	32	14%
59	6%	H7UJ	5377	55	13%
60	6%	W7	5421	44	9%
61	6%	H7	5428	7	3%
62	6%	H7UJ	5438	10	7%
63	6%	YHW2J	5460	22	7%
64	6%	H7UJ	5465	5	3%
65	6%	YCG	5468	3	3%
66	6%	YHW2	5473	5	2%
(RR65) 67	6%	YCG	5481	8	13%
68	6%	YHW2J	5494	13	7%
69	6%	YHW2	5509	15	7%
70	6%	YHW2	5526	17	8%
71	6%	H7UJ	5574	43	13%
72	6%	M4N	5621	47	8%
73	6%	M4N	5650	29	7%
74	6%	W7	5694	44	13%
75	6%	M4N	5702	8	2%
76	6%	H7UJ	5706	4	3%
RR40	6%	CGR	5730	24	15%
RR65	6%	YCG	5750	20	29%
77	6%	H7UJ	5788	38	17%
78	6%	H7UJ	5815	27	10%
79	6%	W7	5902	37	16%
80	6%	M4N	5951	49	7%
81	6%	M4N	5995	44	11%
RR79	6%	W7	6020	25	12%

SECTION III CONTINUED - ENGINEERING SUMMARY

MUD REPORT

<u>TYPE</u>	<u>QUANTITY</u>
Gel	145,900
Caustic	7,100
Peltex	20,375

DEVIATION RECORD

350' = 1°	1710' = 1-1/2°	3110' = 2-1/2°	4500' = 4°
655' = 1-3/4°	2040' = 1-3/4°	3253' = 2-3/4°	4759' = 3-1/2°
842' = 1-3/4°	2300' = 1-3/4°	3432' = 2-1/2°	4915' = 3-1/4°
1060' = 2°	2450' = 3/4°	3612' = 2-1/2°	5150' = 4°
1110' = 2°	2600' = 3/4°	3797' = 2-1/2°	5300' = 3-3/4°
1200' = 2°	2840' = 2-3/4°	3960' = 2-3/4°	5490' = 3-1/2°
1330' = 2°	2980' = 2-3/4°	4144' = 2-3/4°	5694' = 3°
1460' = 2°	3030' = 2-3/4°	4315' = 3-1/4°	5900' = 3°

ABANDONMENT PLUGS

1. 5920 - 6020	36 Sacks Port. & 2% CaCl ₂	No Peel
2. 4335 - 4470	39 Sacks Port. & 2% CaCl ₂	Felt 4335
3. 2880 - 3075	44 Sacks Port. & 2% CaCl ₂	Felt 2880
4. 575 - 711	31 Sacks Port. & 2% CaCl ₂	Felt 575

10 sacks top Csg. - Cut off Csg. three feet below surf. Weld on 1/2" steel plate. 5 sacks in rathole. 5 sacks in mousehole. Name on plate.

LOST CIRCULATION ZONES

None

SECTION III CONTINUED - ENGINEERING SUMMARY

BLOWOUTS

None

SECTION IV LOGS

<u>TYPE</u>	<u>DEPTH RUN</u>	
I.E.S.	6010 - 653	2" & 5" Scales
F.D.C. - G.R.	6005 - 654	5" Scales
BHCS - G.R.	5978 - 659	2" & 5" Scales
S.R.S.	Six levels, 700, 2200, 3200, 4430, 5000, 5700	

SECTION V ANALYSIS

CORE ANALYSIS

Attached

SECTION V CONTINUED - ANALYSIS

WATER ANALYSIS

Attached

GAS ANALYSIS

None

OIL ANALYSIS

None

SECTION VI COMPLETION SUMMARY

TUBING RECORD

None

PERFORATION RECORD

None

CEMENTATION

None

SECTION VI CONCLUDED - COMPLETION SUMMARY

ACIDIZATION AND FRACTURING

None

BACK PRESSURE AND PRODUCTION

None

CORE LABORATORIES-CANADA LTD.
EDMONTON ALBERTA

Company - SHELL CANADA LIMITED Date Report - JANUARY 20, 1966 Pace - 1 of 3
 Well - SHELL PEEL RIVER YTL-1 Formation - WATER BASE File - CNP-1-7891
 Field - PEEL RIVER AREA, NORTHWEST TERRITORIES D. Fluid - FULL DIAMETER Analysis - DIAMOND
 Location - 6630' - 38.32" NL FULL DIAMETER Analysis - FULL DIAMETER

SAMPLE NUMBER	DEPTH REPRESENTED FEET	FOOT. REPR.	PERMEABILITY			PERM. FEET	POROSITY PER CENT	POROSITY FEET	DENSITY BULK GRAIN	VISUAL EXAMINATION
			K MAX	K 90°	X					
CORED INTERVAL 4455.0' - 4485.5'										
CORE No. 2 4455.0' - 4485.5' (Rec. 30.5') (7 Boxes)										
1	4455.0-4455.7	0.7	6.4	4.6	4.48	17.6	12.32	2.20	2.68	Fine to Med. sand, G.
2	4455.7-4456.4	0.7	103.	99.	72.10	21.0	14.70	2.11	2.68	Fine to Med. sand, G.
3	4456.4-4456.8	0.4	-	-	-	-	-	-	-	Silty, pyrobitumin breaks
3	4456.8-4458.6	1.8	2.7	2.7	4.86	16.6	29.88	2.25	2.69	Fine to Med. sand, G.
4	4458.6-4458.9	0.3	-	-	-	-	-	-	-	Silty, pyrobitumin breaks
4	4458.9-4459.9	1.0	22.	20.	22.00	19.3	19.30	2.18	2.70	Fine to Med. sand, G.
5	4459.9-4460.9	1.0	23.	22.	23.00	20.2	20.20	2.15	2.69	Fine to Med. sand, G.
6	4460.9-4461.9	1.0	16.	16.	16.00	19.8	19.80	2.16	2.70	Fine to Med. sand, G.
7	4461.9-4462.0	1.1	35.	31.	38.50	20.5	22.55	2.14	2.69	Fine to Med. sand, G.
8	4462.0-4463.0	1.0	324.	310.	324.00	20.6	20.60	2.12	2.67	Fine to Med. sand, G.
9	4463.0-4463.8	0.9	18.	18.	14.40	20.1	16.08	2.15	2.69	Fine to Med. sand, G.
11	4463.8-4464.5	0.7	40.	37.	28.00	21.4	14.98	2.14	2.72	Fine to Med. sand, G.
12	4464.5-4465.4	0.9	34.	34.	30.60	20.8	18.72	2.13	2.69	Fine to Med. sand, G.
12	4465.4-4466.3	0.9	33.	33.	29.70	21.3	19.17	2.11	2.69	Fine to Med. sand, G.
13	4466.3-4467.3	1.0	26.	24.	26.00	21.2	21.20	2.13	2.71	Fine to Coarse sand, G.
14	4467.3-4468.3	1.0	10.	9.8	10.00	20.6	20.60	2.13	2.68	Fine to Coarse sand, G.
15	4468.3-4469.5	1.2	7.7	7.4	9.24	16.8	20.16	2.23	2.69	Fine to Coarse sand, G.
16	4469.5-4470.9	1.4	13.	12.	18.20	17.0	23.80	2.23	2.69	Fine to Med. sand, G.
17	4470.9-4472.2	1.3	23.	23.	29.90	17.2	22.36	2.23	2.69	Fine to Med. sand, G.
18	4472.2-4473.0	0.8	12.	12.	9.60	17.8	14.24	2.21	2.69	Fine to Med. sand, G.
19	4473.0-4474.5	1.5	13.	12.	19.50	17.0	25.50	2.23	2.68	Fine to Med. sand, G.
20	4474.5-4475.5	1.0	31.	28.	31.00	20.2	20.20	2.13	2.67	Fine to Med. sand, G.

MAR 14 1966

CORE LABORATORIES-CANADA LTD.
EDMONTON ALBERTA

SHELL CANADA LIMITED
SHELL PEEL RIVER YTL-1

Page - 2 of 3
File - CNP-1-7891

SAMPLE NUMBER	DEPTH REPRESENTED FEET	FOOT. REPR.	PERMEABILITY		PERM. FEET	POROSITY		DENSITY	VISUAL EXAMINATION
			K MAX	K 90°		PER CENT	POROSITY FEET		
21	4475.5-4476.6	1.1	39.	38.	42.90	20.7	22.77	2.13	Fine to Med. sand, G.
22	4476.6-4478.2	1.6	35.	31.	56.00	21.3	34.08	2.10	Fine to Med. sand, G.
22	4478.2-4481.0	1.8	16.	15.	28.80	19.2	34.56	2.16	Fine to Med. sand, G.
24	4481.0-4483.0	2.0	19.	18.	38.00	20.0	40.00	2.14	Fine to Med. sand, G.
25	4483.0-4484.4	1.4	11.	11.	15.40	15.5	21.70	2.27	Fine to Med. sand, G.
26	4484.4-4485.5	1.1	20.	17.	22.00	19.2	21.12	2.16	Fine to Med. sand, G.

Core No. 2 (Contn'd.)

G - Glazed surface removed

SHELL CANADA LIMITED
SHELL PEEL RIVER YTL-1

CORE LABORATORIES-CANADA LTD.
EDMONTON ALBERTA

<u>Core with Permeability 0.00 to less than 0.10 Md.</u>	- Nil
<u>Core with Permeability 0.10 to 0.99 Millidarcys</u>	- Nil
<u>Core with Permeability 1.0 to 9.9 Millidarcys</u>	
Total footage of core with 1.0 to 9.9 millidarcys permeability	3.0'
Weighted average porosity of core with 1.0 to 9.9 millidarcys permeability	16.68% (50.04)
Per cent of analyzed core having 1.0 to 9.9 millidarcys permeability	10.1%
Weighted average horizontal permeability of core with 1.0 to 9.9 millidarcys	4.7 md. (14.10)
<u>Core with Permeability 10 Millidarcys and Greater</u>	
Total footage of core with permeability 10 millidarcys and greater	26.8'
Weighted average porosity of core with permeabilities 10 millidarcys and greater	19.42% (520.55)
Per cent of analyzed core having permeabilities 10 millidarcys and greater	89.9%
Weighted average horizontal permeability of core with permeability 10 md. and greater	35. md. (950.08)
<u>Cored interval</u>	4455.0' - 4485.5'
Total footage	30.5'
Footage analyzed	29.8'
Footage not analyzed	0.7'
Weighted average porosity of core analyzed	19.15% (570.50)
Weighted average horizontal permeability of core analyzed	32. md. (64.18)

Note: Figures in parentheses indicate porosity feet and permeability feet.

CHEMICAL & GEOLOGICAL LABORATORIES LTD.

WATER ANALYSIS

Lab No. E66-35

Received: Jan. 17, 1966 Reported: Jan. 24, 1966 Well: Location: Shell Peel R. YT L-1 66° 30' 38.3" N. 134° 46' 28.5" W

Operator: Shell Canada Limited

Field or Area:

Elev.: K.B.1254' Grd. 1282' Zone/Formation: Mississippian-Devonian (Trail River)

Sample Interval: 4392' - 4574'

Method of Production: D.S.T. #1

Sampled from: 1500' above S.U. level

Sampled by: M. Engen

Date: Jan. 8, 1966

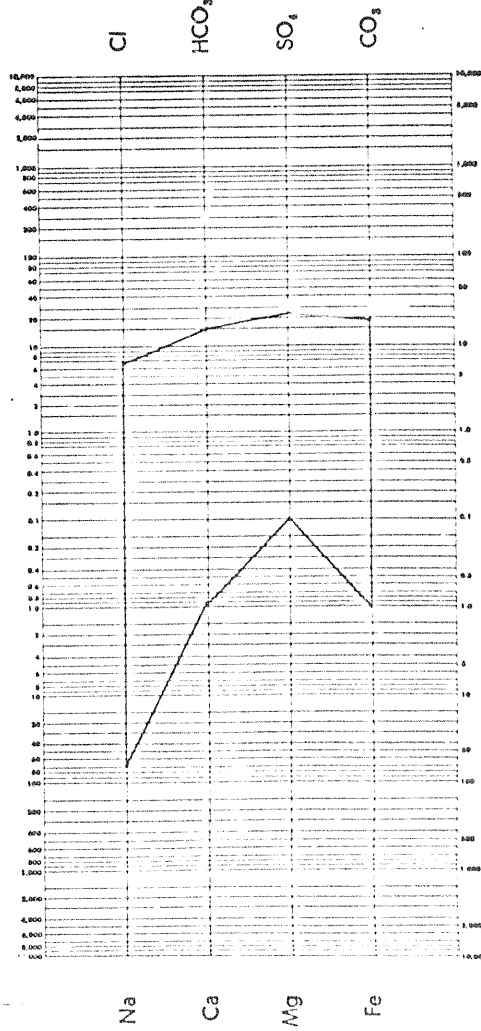
OTHER PERTINENT DATA Recovered 2.6 bbls. water cut mud (300) Sample number 4144.
5.2 bbls. mud cut water (600')
17.3 bbls. slightly gassified water (2100')

(Signed)

	Na & K	Ca	Mg	SO ₄	Cl	CO ₂	HCO ₃
Mg./L		19	1	1,243	238	596	960
Meq./L		0.95	0.08	25.85	6.71	19.85	15.74
Meq. %		0.70	0.06	18.97	4.92	14.56	11.55

Total Solids Mg/L: By Evaporation 7,890 Fe Much Specific Gravity Insufficient @60°F Observed pH 9.9 @ 71.5 °F
Calculated 4,600 After Ignition 3,910 H₂S Refractive Index 1.3375 @25°C Resistivity 2.028 ohm meters @ 68 °F

Pattern Unit Meq./L



Remarks and Conclusions

The total solids contained a large amount of organic matter. The sample is filtrate water.

questionable

CHEMICAL & GEOLOGICAL LABORATORIES LTD.

WATER ANALYSIS

Lab No. E66-37

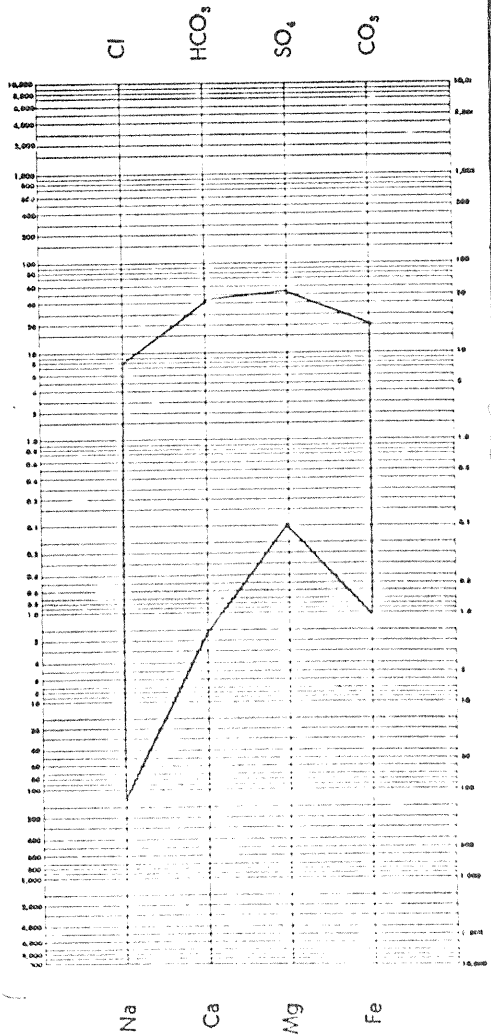
Received: Jan. 17, 1966 Reported: Jan. 24, 1966 Well: Location: Shell Peel R. YT L-1 66° 30' 38.3" N. 134° 46' 28.5" W.
 Operator: Shell Canada Limited Field or Area:
 Elev.: K.B. 1294' Grd. 1282' Zone/Formation: Mississippian-Devonian (Trail River) Sample Interval: 4392' - 4574'
 Method of Production: D.S.T. #2 Sampled from: Drilling Mud Sampled by: M. Engen Date: Jan. 8, 1966

OTHER PERTINENT DATA Sample number 4146. Recovered 2.6 bbis. water cut mud. (300')
 5.2 bbis. mud cut water (600')
 17.3 bbis. slightly gassified water (2100')
 (Signed)

	Na &K	Ca	Mg	SO ₄	Cl	CO ₂	HCO ₃
Mg./L	2,872	35	1	2,642	290	601	2,660
Meq./L	124.93	1.75	0.08	54.95	8.18	20.01	43.62
Meq. %	49.28	0.69	0.03	21.67	3.23	7.89	17.21

Total Solids Mg/L: By Evaporation 17,390 Fe Much Specific Gravity Insufficient @60°F Observed pH 9.3 @ 72 °F
 Calculated 9,101 After Ignition 7,530 H₂S Refractive Index 1.3395 @25°C Resistivity 0.811 ohm meters @ 68 °F

Pattern Unit Meq./L



Remarks and Conclusions

The total solids contained an extremely large amount of organic matter. The sample is mud filtrate water.

4-108

CHEMICAL & GEOLOGICAL LABORATORIES LTD.

WATER ANALYSIS

Lab No. E66-36

Received: Jan. 17, 1966 Reported: Jan. 24, 1966 Well: Location: Shell Peel R. YT L-1 66° 30' 38.3" N. 134° 46' 28.5" W

Operator: Shell Canada Limited Field or Area: Mississippi-Devonian (Trail River) Sample Interval: 4392' - 4574'

Method of Production: D.S.T. H.L. Sampled from: *at S.A. J.C.C.* Sampled by: M. Engen Date: Jan. 8, 1966

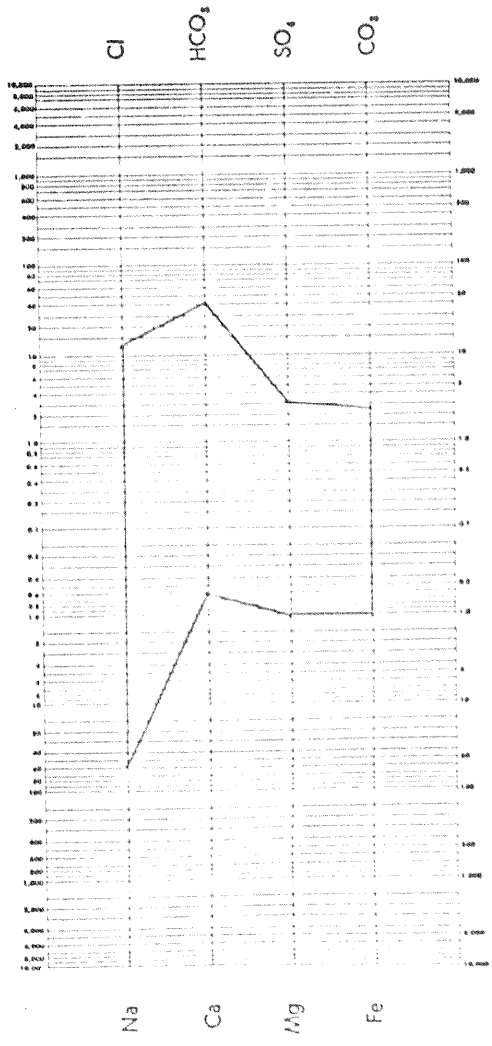
OTHER PERTINENT DATA Sample number 4145. Recovered 2.6 bbls. water cut mud. (300')
5.2 bbls. mud cut water (600')
17.3 bbls. slightly gassified water (2100')

(Signed)

	Na & K	Ca	Mg	SO ₄	Cl	CO ₂	HCO ₃
Mg./L		12	Trace	152	438	79	2,490
Meq./L		0.60		3.16	12.35	2.63	40.84
Meq. %		0.51		2.68	10.47	2.23	34.62

Total Solids Mg/L: By Evaporation 4,060 Fe Present Specific Gravity 1.003 @ 60°F Observed pH 8.7 @ 72 °F
Calculated 4,513 After Ignition 2,488 H₂S Refractive Index 1.3370 @ 25°C Resistivity 2.324 ohm meters @ 68 °F

Pattern Unit Meq./L



Remarks and Conclusions

The total solids contained organic matter.
The sample is filtrate water.

questionable

REC'D

FEB 8

CORE LABORATORIES - CANADA LTD.
EDMONTON ALBERTA

Company - SHELL CANADA LIMITED
Well - SHELL PEEL RIVER YTL-1
Field - PEEL RIVER AREA, NORTHWEST TERRITORIES
Location - 6630' - 38.32" NL
13446' - 28.47" WL

Date Report - JANUARY 20, 1966
Formation -
D. Fluid - WATER BASE
Analysis - FULL DIAPETER

File - CNP-1-7801
Analysts - WD BD SP
CORE - DIAMOND

SAMPLE NUMBER	DEPTH REPRESENTED FEET	FOOT. REPR.	PERMEABILITY		PERM. FEET	POROSITY PER CENT	POROSITY FEET	DENSITY BUJK GRAIN	VISUAL EXAMINATION
			K MAX	K 90°					
CORED INTERVAL			4455.0'	-	4485.5'	(7 Boxes)			
CORE No. 2			4455.0'	-	4485.5'	(7 Boxes)			
1	4455.0-4455.7	0.7	6.4	4.6	4.48	17.6	12.32	2.20	Fine to Med. sand, G.
2	4455.7-4456.4	0.7	103.	99.	72.10	21.0	14.70	2.11	Fine to Med. sand, G.
3	4456.4-4456.8	0.4	-	-	-	-	-	-	Silty, pyrobitumin breaks
4	4456.8-4458.6	1.8	2.7	2.7	4.86	16.6	29.88	2.25	Fine to Med. sand, G.
5	4458.6-4458.9	0.3	-	-	-	-	-	-	Silty, pyrobitumin breaks
6	4458.9-4459.9	1.0	22.	20.	22.00	19.3	19.30	2.18	Fine to Med. sand, G.
7	4459.9-4460.9	1.0	23.	22.	23.00	20.2	20.20	2.15	Fine to Med. sand, G.
8	4460.9-4461.9	1.0	16.	16.	16.00	19.8	19.80	2.16	Fine to Med. sand, G.
9	4461.9-4462.0	1.1	35.	31.	38.50	20.5	22.55	2.14	Fine to Med. sand, G.
10	4462.0-4463.0	1.0	324.	310.	324.00	20.6	20.60	2.12	Fine to Med. sand, G.
11	4463.0-4463.8	0.8	19.	18.	14.40	20.1	16.08	2.15	Fine to Med. sand, G.
12	4463.8-4464.5	0.7	40.	37.	28.00	21.4	14.98	2.14	Fine to Med. sand, G.
13	4464.5-4465.4	0.9	34.	34.	30.60	20.8	18.72	2.13	Fine to Med. sand, G.
14	4465.4-4466.3	0.9	33.	33.	29.70	21.3	19.17	2.11	Fine to Med. sand, G.
15	4466.3-4467.3	1.0	26.	24.	26.00	21.2	21.20	2.13	Fine to Med. sand, G.
16	4467.3-4468.3	1.0	10.	9.8	10.00	20.6	20.60	2.13	Fine to Coarse sand, G.
17	4468.3-4469.5	1.2	7.7	7.4	9.24	16.9	20.16	2.23	Fine to Coarse sand, G.
18	4469.5-4470.9	1.4	13.	12.	18.20	17.0	23.80	2.23	Fine to Med. sand, G.
19	4470.9-4472.2	1.3	23.	23.	29.90	17.2	22.36	2.23	Fine to Med. sand, G.
20	4472.2-4473.0	0.8	12.	12.	9.60	17.8	14.24	2.21	Fine to Med. sand, G.
21	4473.0-4474.5	1.5	13.	12.	19.50	17.0	25.50	2.23	Fine to Med. sand, G.
22	4474.5-4475.5	1.0	31.	28.	31.00	20.2	20.20	2.13	Fine to Med. sand, G.

REC'D

REC'D

FEB 8

CORE LABORATORIES - CANADA LTD.
EDMONTON ALBERTA

Company - SHELL CANADA LIMITED
Well - SHELL PEEL RIVER YTL-1
Field - PEEL RIVER AREA, NORTHWEST TERRITORIES
Location - 6630' - 38.32" NL
13446' - 28.47" WL

Date Report - JANUARY 20, 1966
Formation -
D. Fluid - WATER BASE
Analysis - FULL DIAPETER

File - CNP-1-7801
Analysts - WD BD SP
CORE - DIAMOND

SAMPLE NUMBER	DEPTH REPRESENTED FEET	FOOT. REPR.	PERMEABILITY		PERM. FEET	POROSITY PER CENT	POROSITY FEET	DENSITY BUJK GRAIN	VISUAL EXAMINATION	
			K MAX	K 90°						
CORED INTERVAL			4455.0'	-	4485.5'					
CORE No. 2			4455.0'	-	4485.5'	(7 Boxes)				
1	4455.0-4455.7	0.7	6.4	4.6	4.48	17.6	12.32	2.20	2.68	Fine to Med. sand, G.
2	4455.7-4456.4	0.7	103.	99.	72.10	21.0	14.70	2.11	2.68	Fine to Med. sand, G.
3	4456.4-4456.8	0.4	-	-	-	-	-	-	-	Silty, pyrobitumin breaks
4	4456.8-4458.6	1.8	2.7	2.7	4.86	16.6	29.88	2.25	2.69	Fine to Med. sand, G.
5	4458.6-4458.9	0.3	-	-	-	-	-	-	-	Silty, pyrobitumin breaks
6	4458.9-4459.9	1.0	22.	20.	22.00	19.3	19.30	2.18	2.70	Fine to Med. sand, G.
7	4459.9-4460.9	1.0	23.	22.	23.00	20.2	20.20	2.15	2.69	Fine to Med. sand, G.
8	4460.9-4461.9	1.0	16.	16.	16.00	19.8	19.80	2.16	2.70	Fine to Med. sand, G.
9	4461.9-4462.0	1.1	35.	31.	38.50	20.5	22.55	2.14	2.69	Fine to Med. sand, G.
10	4462.0-4463.0	1.0	324.	310.	324.00	20.6	20.60	2.12	2.67	Fine to Med. sand, G.
11	4463.0-4463.8	0.8	19.	18.	14.40	20.1	16.08	2.15	2.69	Fine to Med. sand, G.
12	4463.8-4464.5	0.7	40.	37.	28.00	21.4	14.98	2.14	2.72	Fine to Med. sand, G.
13	4464.5-4465.4	0.9	34.	34.	30.60	20.8	18.72	2.13	2.69	Fine to Med. sand, G.
14	4465.4-4466.3	0.9	33.	33.	29.70	21.3	19.17	2.11	2.69	Fine to Med. sand, G.
15	4466.3-4467.3	1.0	26.	24.	26.00	21.2	21.20	2.13	2.71	Fine to Coarse sand, G.
16	4467.3-4468.3	1.0	10.	9.8	10.00	20.6	20.60	2.13	2.68	Fine to Coarse sand, G.
17	4468.3-4469.5	1.2	7.7	7.4	9.24	16.9	20.16	2.23	2.69	Fine to Coarse sand, G.
18	4469.5-4470.9	1.4	13.	12.	18.20	17.0	23.80	2.23	2.69	Fine to Med. sand, G.
19	4470.9-4472.2	1.3	23.	23.	29.90	17.2	22.36	2.23	2.69	Fine to Med. sand, G.
20	4472.2-4473.0	0.8	12.	12.	9.60	17.8	14.24	2.21	2.69	Fine to Med. sand, G.
21	4473.0-4474.5	1.5	13.	12.	19.50	17.0	25.50	2.23	2.68	Fine to Med. sand, G.
22	4474.5-4475.5	1.0	31.	28.	31.00	20.2	20.20	2.13	2.67	Fine to Med. sand, G.

REC'D

FEB 8

REC'D

FEB 8

CORE LABORATORIES - CANADA LTD.
EDMONTON ALBERTA

Company - SHELL CANADA LIMITED
 Well - SHELL PEEL RIVER YTL-1
 Field - PEEL RIVER AREA, NORTHWEST TERRITORIES
 Location - 6630' - 38.32" NL
 13446' - 28.47" WL

Date Report - JANUARY 20, 1966
 Formation -
 D. Fluid - WATER BASE
 Analysis - FULL DIAPETER

File - 1 of 3
 Analysts - CNP-1-7801
 CORE - WD BD SP
 - DIAMOND

SAMPLE NUMBER	DEPTH REPRESENTED FEET	FOOT. REPR.	PERMEABILITY		PERM. FEET	POROSITY PER CENT	POROSITY FEET	DENSITY BUJK GRAIN	VISUAL EXAMINATION	
			K MAX	K 90°						
CORED INTERVAL			4455.0'	-	4485.5'					
CORE No. 2			4455.0'	-	4485.5'	(7 Boxes)				
1	4455.0-4455.7	0.7	6.4	4.6	4.48	17.6	12.32	2.20	2.68	Fine to Med. sand, G.
2	4455.7-4456.4	0.7	103.	99.	72.10	21.0	14.70	2.11	2.68	Fine to Med. sand, G.
3	4456.4-4456.8	0.4	-	-	-	-	-	-	-	Silty, pyrobitumin breaks
4	4456.8-4458.6	1.8	2.7	2.7	4.86	16.6	29.88	2.25	2.69	Fine to Med. sand, G.
5	4458.6-4458.9	0.3	-	-	-	-	-	-	-	Silty, pyrobitumin breaks
6	4458.9-4459.9	1.0	22.	20.	22.00	19.3	19.30	2.18	2.70	Fine to Med. sand, G.
7	4459.9-4460.9	1.0	23.	22.	23.00	20.2	20.20	2.15	2.69	Fine to Med. sand, G.
8	4460.9-4461.9	1.0	16.	16.	16.00	19.8	19.80	2.16	2.70	Fine to Med. sand, G.
9	4461.9-4462.0	1.1	35.	31.	38.50	20.5	22.55	2.14	2.69	Fine to Med. sand, G.
10	4462.0-4463.0	1.0	324.	310.	324.00	20.6	20.60	2.12	2.67	Fine to Med. sand, G.
11	4463.0-4463.8	0.8	19.	18.	14.40	20.1	16.08	2.15	2.69	Fine to Med. sand, G.
12	4463.8-4464.5	0.7	40.	37.	28.00	21.4	14.98	2.14	2.72	Fine to Med. sand, G.
13	4464.5-4465.4	0.9	34.	34.	30.60	20.8	18.72	2.13	2.69	Fine to Med. sand, G.
14	4465.4-4466.3	0.9	33.	33.	29.70	21.3	19.17	2.11	2.69	Fine to Med. sand, G.
15	4466.3-4467.3	1.0	26.	24.	26.00	21.2	21.20	2.13	2.71	Fine to Coarse sand, G.
16	4467.3-4468.3	1.0	10.	9.8	10.00	20.6	20.60	2.13	2.68	Fine to Coarse sand, G.
17	4468.3-4469.5	1.2	7.7	7.4	9.24	16.9	20.16	2.23	2.69	Fine to Coarse sand, G.
18	4469.5-4470.9	1.4	13.	12.	18.20	17.0	23.80	2.23	2.69	Fine to Med. sand, G.
19	4470.9-4472.2	1.3	23.	23.	29.90	17.2	22.36	2.23	2.69	Fine to Med. sand, G.
20	4472.2-4473.0	0.8	12.	12.	9.60	17.8	14.24	2.21	2.69	Fine to Med. sand, G.
21	4473.0-4474.5	1.5	13.	12.	19.50	17.0	25.50	2.23	2.68	Fine to Med. sand, G.
22	4474.5-4475.5	1.0	31.	28.	31.00	20.2	20.20	2.13	2.67	Fine to Med. sand, G.

REC'D

FEB 8

Core with Permeability 0.00 to less than 0.10 Md. - Nil

Core with Permeability 0.10 to 0.99 Millidarcys - Nil

Core with Permeability 1.0 to 9.9 Millidarcys

Total footage of core with 1.0 to 9.9 millidarcys permeability-----	3.0'	
Weighted average porosity of core with 1.0 to 9.9 millidarcys permeability-----	16.68%	(50.04)
Per cent of analyzed core having 1.0 to 9.9 millidarcys permeability-----	10.1%	
Weighted average horizontal permeability of core with 1.0 to 9.9 millidarcys-----	4.7 md.	(14.10)

Core with Permeability 10 Millidarcys and Greater

Total footage of core with permeability 10 millidarcys and greater-----	26.8'	
Weighted average porosity of core with permeabilities 10 millidarcys and greater-----	19.42%	(520.55)
Per cent of analyzed core having permeabilities 10 millidarcys and greater-----	89.9%	
Weighted average horizontal permeability of core with permeability 10 md. and greater-----	35. md.	(50.08)

Cored interval-----	4455.0' - 4485.5'
Total footage-----	30.5'
Footage analyzed-----	29.8'
Footage not analyzed-----	0.7'
Weighted average porosity of core analyzed-----	Dense 0.7'
Weighted average horizontal permeability of core analyzed-----	19.15% (570.50)
	32. md. (64.18)

Note: Figures in parentheses indicate porosity feet and permeability feet.

Core with Permeability 0.00 to less than 0.10 Md. - Nil

Core with Permeability 0.10 to 0.99 Millidarcys - Nil

Core with Permeability 1.0 to 9.9 Millidarcys

Total footage of core with 1.0 to 9.9 millidarcys permeability----- 3.0'
 Weighted average porosity of core with 1.0 to 9.9 millidarcys permeability----- 16.68% (50.04)
 Per cent of analyzed core having 1.0 to 9.9 millidarcys permeability----- 10.1%
 Weighted average horizontal permeability of core with 1.0 to 9.9 millidarcys----- 4.7 md. (14.10)

Core with Permeability 10 Millidarcys and Greater

Total footage of core with permeability 10 millidarcys and greater----- 26.8'
 Weighted average porosity of core with permeabilities 10 millidarcys and greater----- 19.42% (520.55)
 Per cent of analyzed core having permeabilities 10 millidarcys and greater----- 89.9%
 Weighted average horizontal permeability of core with permeability 10 md. and greater----- 35. md. (50.08)

Cored interval----- 4455.0' - 4485.5'
 Total footage----- 30.5'
 Footage analyzed----- 29.8'
 Footage not analyzed----- 0.7' Dense 0.7'
 Weighted average porosity of core analyzed----- 19.15% (570.50)
 Weighted average horizontal permeability of core analyzed----- 32. md. (64.18)

Note: Figures in parentheses indicate porosity feet and permeability feet.

T.G. EASTLAND — testers ltd.

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

TEST No. Two
 Date Jan. 7, 1966
 Ticket No. 7983

DRILL STEM TEST PRESSURE REPORT

WELL NAME SHELL PEEL RIVER Y.T. L-1 LSD. Y.T. L-1
 INTERVAL 4522'-4574'KB FORMATION M-D B.H. TEMP. °F 106
 GAUGE No. 13.1.14 DEPTH OF ELEMENT 4400'KB CALIBRATION EQUATION P_c 2254.15 - 13.00

	Time	T mins.	Pressure psig	
Initial Hydrostatic	-----		2117	Final Hydrostatic Press. 2117 psig
Initial Shut-in	3:51 pm	0	526	
	3:54	3	1545	
	3:57	6	1626	
	4:00	9	1664	
	4:03	12	1689	
	4:06	15	1698	
	4:09	18	1707	
	4:12	21	1714	
	4:15	24	1720	
	4:18	27	1723	
	4:21	30	1725	
	4:24	33	1727	
	4:27	36	1729	
	4:30	39	1732	
Flowing Pressures	-----		F ₁ 562	
			F ₂ 1353	
Final Shut-in	5:30 pm	0	1353	
	5:33	3	1619	
	5:36	6	1644	
	5:39	9	1657	
	5:42	12	1666	
	5:45	15	1673	
	5:48	18	1678	
	5:51	21	1682	
	5:54	24	1687	
	5:57	27	1691	
	6:00	30	1693	
	6:03	33	1696	
	6:06	36	1698	
	6:09	39	1700	
	6:12	42	1702	
	6:15	45	1705	
	6:18	48	1707	
	6:21	51	1709	
				<u>Final Shut-in (continued)</u>
				<u>Time</u> <u>T</u> <u>Pressure</u>
				<u>mins.</u> <u>psig</u>
	6:24 pm	54	1711	
	6:27	57	1714	
	6:30	60	1714	
	6:33	63	1716	
	6:36	66	1716	
	6:39	69	1716	
	6:42	72	1718	
	6:45	75	1718	
	6:48	78	1718	
	6:51	81	1718	

T. G. EASTLAND TESTERS LTD.

R.R. 6, North Edmonton, Alberta

Phone 799-3388 (24 Hours)

N^o 7983

Date Jan 7/66

Ticket No. 2

Customer's Order No.

Invoice to Shell Oil Co

Well Name Pool YTL-1

Address

Locality Pool R. Yukon Lsd.

No. of copies of report

Contractor Engent

Rig No. 21

Toolpusher R. Shaverick

Formation Tested M-O Sand

Arr. at Well a.m./p.m. Started in Hole 2:05 a.m./p.m.

Standard Test Duals Straddle Casing

Packer Set 3:45 a.m./p.m. Initial Shut-in 30 mins.

Tested from 4392 to 4574 Tail Pipe 132

Tool Opened 4:30 a.m./p.m. Tool Closed 5:30 a.m./p.m.

Main Hole Depth 4574 Rat Hole Depth

Final Shut-in 60 mins. Out of Hole 8:30 a.m./p.m.

Casing Depth Size Weight

Size of Choke: Bottom Hole 1/2 Surface

Hole Size(s): 6 3/4 Rubber Size(s): 2 x 6

Fluid Cushion Flare Line Riser

Number of packer(s) used: 2 Type G.P.M.

Pitot Tube with water mercury in; press. gauge psig

Drill String Jt. 3/2 I.F. Testing Tool Jt. 3/2 I.F.

Gas Flow Mcf/day Max. Temp. 106 °F

Gauge No. 11568 Rge. 3000 Clock Spd. 12 Depth 4320

Initial Hydrostatic Pressure: 2173 psig

Gauge No. 13117 Rge. 4400 Clock Spd. 12 Depth 4400

S.I. Press.: Initial 1752 psig Final 1752 psig

Gauge No. 11588 4000 12 Blanked Off Yes / No

Flow Press: Initial 561 psig Final 1402 psig

Gauge No. Depth 4574 Blanked Off Yes / No

Drilling Fluid: Vis. 60 Wt. 9.1 W.L. 6

Safety Jt.? Jars? Rev. Valve? Rev. Sub?

No. of Drill Collars above tool 15 O.D. 4 3/4 I.D. 2

No. of Damaged Rubbers? Buttons?

Total Fluid Recovery 300 water cut mud

Total Mileage to Well From Station at

600 Mud cut water 2100 water

Working Time Dates:

Describe Operation: G.I.P. Fair air flow through out test
Pve flowed for 5 min.

T. G. Eastland Testers Ltd. shall not be liable for damages of any kind to the property or personnel of the one for whom a test or service is made or for any loss suffered or sustained directly or indirectly, through the use of its equipment, or its statement or opinion concerning the results of any test or service.

Approved by M. G. Engen

Our Operator W. J. McKay

(Please print name below) Make out a complete ticket each time tool is run in well.

M. G. ENGEN

FORM T50

T.G. EASTLAND ——— Masters Ltd.

R.R. NO. 6 NORTH • EDMONTON, ALBERTA

TEST No. One
Date Dec. 23, 1965
Ticket No. A-528

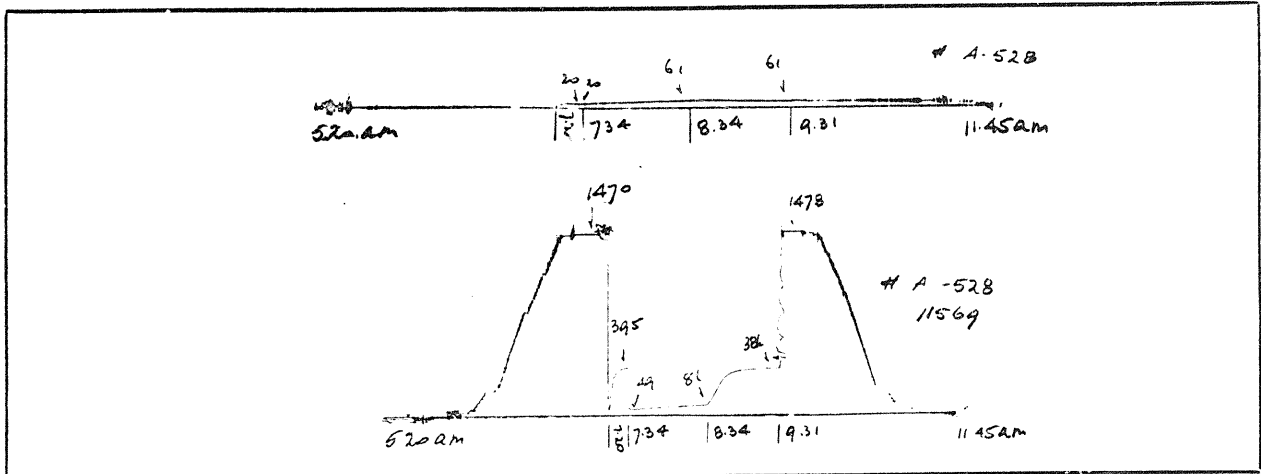
SERVICE REPORT

Well Name: SHELL PEEL RIVER, Y.T.-L-1 LSD. 66° 30' - 38.3' N 134°
Formation Tested: TEST RESULT DATA 46 - 28.5V.
TYPE OF TEST: Standard Duals Straddle Casing
From: 3010' To: 3133' Tail Pipe: 178'
Main Hole Depth: 3188' Rat Hole Depth:
Hole Size Tested: 6 3/4" Main Hole Rat Hole
Casing Depth: 655' Size: 9.5/8" Weight:
Type of Drill Pipe: 3 1/2" LF Tubing:
Type of Packer(s): Conventional (2)
Size of Rubber Element(s): 6"
REMARKS: Chased tool 5 ft. to bottom. Lost
.5 ft. mud. Opened tool on 1/2" port. Weak
puff. Faint blow, dead in 10 minutes.

PRESENT DURING TEST

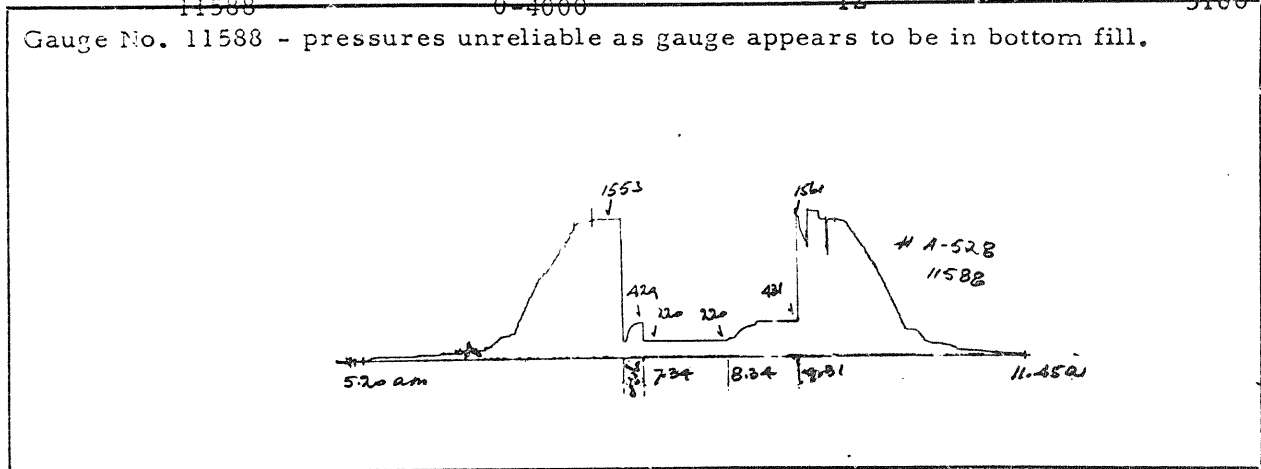
Your Representative Bob McFherson
Our Operator Peter Sinkovich
Toolpusher R. Magnam
Drlg. Contractor Regent Rig #21

Started in Hole: 5:20 am. Tool Opened: 7:34 am
Initial Shut-in: 15 Min. Flow Period: 60 Min
Final Shut-in: 60 Min. Out of Hole: 11:45 am
Choke Bottom: 1/2"
Choke Surface:
Flow Rate Mcf/day Flare Line Riser:
Mcf/day measured by:
Fluid Cushion: Max. Well Temp: 80 °F
DRLG. FLUID: Viscosity: 37. Weight: 9.3. W.L.
FIELD (est.) CORRECTED
1536 Initial Hydrostatic Pressure psig 1470
384 Shut-In Press. #1 After 15 Min. psig 395
48 Initial Flowing Pressure psig 49
90 Max. Flowing Pressure psig 81
408 Shut-In Press. #2 After 60 Min. psig 386
FLUID RECOVERY: 130 ft. drilling mud
(Ran 638.71 ft. drill collars above tool,
4 1/2" OD, 2 7/8" ID)



RECORDER No. 13114... ELEMENT RANGE: 0-4400 P.S.I. CLOCK SPEED: 12 HRS. RECORDER DEPTH: Above tool
RECORDER No. 11569... ELEMENT RANGE: 0-3000 P.S.I. CLOCK SPEED: 12 HRS. RECORDER DEPTH: 3016'
11588 0-4000 12 3186

Gauge No. 11588 - pressures unreliable as gauge appears to be in bottom fill.



TIME

Form No T 20

T.G. EASTLAND — testers Ltd.

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

TEST No. One
 Date Dec. 23, 1965
 Ticket No. A-528

DRILL STEM TEST PRESSURE REPORT

WELL NAME SHELL PEEL RIVER YT-L1 LSD. 66°-30'-38.3"N-134°-46-
5010- 3188' K FORMATION 28.5W B.H. TEMP. °F 80
 GAUGE No. 11569 DEPTH OF ELEMENT 3016' K CALIBRATION EQUATION Pc 1490.12 - 5.68

		T mins.	Pressure psig
Initial Hydrostatic	-----		1470
Initial Shut-in	7:20 a.m.	0	49
	7:23	3	269
	7:26	6	352
	7:29	9	380
	7:32	12	392
	7:34	14	395
Flowing Pressures	-----	F ₁	49
		F ₂	81
Final Shut-in	8:34 a.m.	0	81
	8:37	3	114
	8:40	6	158
	8:43	9	221
	8:46	12	277
	8:49	15	316
	8:52	18	339
	8:55	21	353
	8:58	24	361
	9:01	27	367
	9:04	30	373
	9:07	33	376
	9:10	36	377
	9:13	39	379
	9:16	42	380
9:19	45	382	
9:22	48	383	
9:25	51	385	
9:28	54	386	
9:31	57	386	
Final Hydrostatic	-----		1478

T.G. EASTLAND — testers ltd.

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

TEST No. One
 Date Dec. 23, 1965
 Ticket No. A-528

DRILL STEM TEST PRESSURE REPORT

WELL NAME SHELL PEEL RIVER YT-L1 LSD. 66°-30'-38.3"N-134°-46'-
 INTERVAL 3010- 3188' KFORMATION 28.5W
 B.H. TEMP. °F 80
 GAUGE No. 11569... DEPTH OF ELEMENT 3016' K CALIBRATION EQUATION Pc 1490.12 - 5.68

	Time	T mins.	Pressure psig
Initial Hydrostatic -----			1470
Initial Shut-in	7:20 a.m.	0	49
	7:23	3	269
	7:26	6	352
	7:29	9	380
	7:32	12	392
	7:34	14	395
Flowing Pressures -----			F ₁ 40
			F ₂
Final Shut-in	8:34 a.m.	0	
	8:37	3	114
	8:40	6	158
	8:43	9	221
	8:46	12	277
	8:49	15	316
	8:52	18	339
	8:55	21	353
	8:58	24	361
	9:01	27	367
	9:04	30	373
	9:07	33	376
	9:10	36	377
	9:13	39	379
	9:16	42	380
	9:19	45	382
	9:22	48	383
	9:25	51	385
	9:28	54	386
	9:31	57	386
Final Hydrostatic -----			1478