

General information

Wellbore name	7124/3-1
Type	EXPLORATION
Purpose	WILDCAT
Status	P&A
Factmaps in new window	link
Main area	BARENTS SEA
Discovery	7124/3-1 (Bamse)
Well name	7124/3-1
Seismic location	GFW2-37- SP.1162- GFW2-15 SP.858
Drilled in production licence	135
Drilling operator	Saga Petroleum ASA
Drill permit	548-L
Drilling facility	ROSS RIG (2)
Drilling days	144
Entered date	29.05.1987
Completed date	20.10.1987
Release date	20.10.1989
Publication date	11.01.2005
Purpose - planned	WILDCAT
Reentry	NO
Content	OIL/GAS
Discovery wellbore	YES
1st level with HC, age	EARLY JURASSIC
1st level with HC, formation	TUBÅEN FM
Kelly bushing elevation [m]	23.0
Water depth [m]	273.0
Total depth (MD) [m RKB]	4730.0
Final vertical depth (TVD) [m RKB]	4727.0
Maximum inclination [°]	4.7
Bottom hole temperature [°C]	151
Oldest penetrated age	LATE CARBONIFEROUS
Oldest penetrated formation	ØRN FM
Geodetic datum	ED50
NS degrees	71° 45' 36.03" N
EW degrees	24° 46' 49.99" E
NS UTM [m]	7963806.28
EW UTM [m]	422476.34
UTM zone	35
NPDID wellbore	1066

Wellbore history

General

Well 7124/3-1 is located east of the Hammerfest Basin on the Nyslepp Fault Complex. Two levels were identified where tests for hydrocarbons should be performed. The primary target was reservoir rocks of Middle Jurassic age, and a secondary target was Late Carboniferous rocks. In addition the source rock potential of the Triassic rocks should be investigated, as well as the whole stratigraphy from seabed to the prognosed TD at 4500 M.

The well Type Well for the Ørret Formation and Reference Well for the Bjarmeland Group.

Operations and results

Wildcat well 7124/3-1 was spudded with the semi-submersible installation Ross Rig on 29 May 1987 and drilled to TD at 4730 m in rocks of Carboniferous age. Below 633 m the gas values increased rapidly with average values of 0.5 to 5-6% with a maximum of 10.93%. Due to the weak formation at the 30" casing shoe it was not possible to raise the mud weight above 1.03 g/cc. It was decided to stop drilling at 765 m and set the 20" casing because of this. The high gas values were not due to increased gas content of the formation, but rather a function of the low mud weight. Otherwise drilling proceeded without significant problems. The well was drilled with spud mud down to 361 m, with gel mud from 361 m to 765 m, with gypsum / polymer mud from 765 m to 3256 m, and with gel mud from 3256 m to TD.

The well penetrated the Early Jurassic Tubåen Formation at 1284.5 m. The interval 1284.5 m to 1297.5 m contained gas, with a one-metre thick oil leg below. The fluid contacts are based on RFT pressure measurements. The average log porosity of the gas zone is 22.8%, and the water saturation is 9 %. In the oil leg the average porosity is 26.2%, and the average water saturation is 53%. The N/G ratio is 1.0 in both zones. Oil shows in sandstones were recorded on cores from the oil leg down to 1304 m. Below this depth several gas charged sandstone horizons yielded notable gas peaks: 2.67% at 1892 m, 1.56% at 2238 m, and 1.33% at 2282 m. These gas peaks yielded a full complement C1 - iC4. Weak oil shows were also recorded in these sands. The deepest recorded shows were at 2346 m. The Carboniferous was encountered at 3900 m. Sandstone was found interbedded with limestone in the interval 4480 m to 4598 m, but no clear lithological boundary was identified as the lower target.

A total of five cores were cut in the Tubåen and Fruholmen Formations from 1288 m to 1407.5 m. The total core recovery was 97%. A total of 5 Repeat Formation Tester (RFT) segregated samples were recovered; gas samples at 1288 m, 1295.5 m, and 1297 m, an oil sample at 1298 m, and a water sample at 1300 m.

The well was permanently abandoned on 20 October 1987 as a minor gas and oil discovery

Testing

No drill stem test was performed

Cuttings at the NPD

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
370.00	4732.00

Cuttings available for sampling?	YES
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Cores at the NPD

Core sample number	Core sample - top depth	Core sample - bottom depth	Core sample depth - uom
1	1288.0	1300.6	[m]
2	1303.5	1331.5	[m]
3	1331.0	1358.8	[m]
4	1359.0	1386.8	[m]
5	1386.8	1407.7	[m]

Total core sample length [m]	117.1
Cores available for sampling?	YES

Core photos



1288-1293m



1293-1298m



1298-1301m



1304-1308m



1308-1313m



1313-1318m



1318-1323m



1323-1328m



1328-1332m



1331-1336m



1336-1341m



1341-1346m



1346-1351m



1351-1356m



1356-1359m



1359-1364m



1364-1369m



1369-1374m



1374-1379m



1379-1384m



1384-1387m



1387-1391m



1391-1396m



1396-1401m



1401-1406m



1406-1408m

Palynological slides at the NPD

Sample depth	Depth unit	Sample type	Laboratory
380.0	[m]	DC	OD
400.0	[m]	DC	OD
420.0	[m]	DC	OD
440.0	[m]	DC	OD
460.0	[m]	DC	OD
480.0	[m]	DC	OD
500.0	[m]	DC	OD
520.0	[m]	DC	OD
540.0	[m]	DC	OD
560.0	[m]	DC	OD
640.0	[m]	DC	OD
660.0	[m]	DC	OD
680.0	[m]	DC	OD
700.0	[m]	DC	OD
720.0	[m]	DC	OD
740.0	[m]	DC	OD

760.0 [m]	DC	OD
780.0 [m]	DC	OD
800.0 [m]	DC	OD
820.0 [m]	DC	OD
840.0 [m]	DC	OD
860.0 [m]	DC	OD
880.0 [m]	DC	OD
900.0 [m]	DC	OD
920.0 [m]	DC	OD
940.0 [m]	DC	OD
960.0 [m]	DC	OD
980.0 [m]	DC	OD
1000.0 [m]	DC	OD
1020.0 [m]	DC	OD
1040.0 [m]	DC	OD
1060.0 [m]	DC	OD
1080.0 [m]	DC	OD
1100.0 [m]	DC	OD
1115.0 [m]	DC	OD
1130.0 [m]	DC	OD
1145.0 [m]	DC	OD
1160.0 [m]	DC	OD
1175.0 [m]	DC	OD
1190.0 [m]	DC	OD
1200.0 [m]	DC	OD
1220.0 [m]	DC	OD
1229.0 [m]	DC	OD
1244.0 [m]	DC	OD
1259.0 [m]	DC	OD
1274.0 [m]	DC	OD
1283.0 [m]	DC	OD
1288.0 [m]	C	OD
1293.4 [m]	C	OD
1294.6 [m]	C	OD
1295.0 [m]	C	OD
1295.4 [m]	C	OD
1299.7 [m]	C	OD
1303.7 [m]	C	OD
1303.8 [m]	C	OD
1307.4 [m]	C	OD

1311.5 [m]	C	OD
1313.6 [m]	C	OD
1314.5 [m]	C	OD
1316.8 [m]	C	OD
1318.6 [m]	C	OD
1319.6 [m]	C	OD
1319.7 [m]	C	OD
1323.5 [m]	C	OD
1324.8 [m]	C	OD
1324.8 [m]	C	ICHRON
1325.5 [m]	C	OD
1328.1 [m]	C	OD
1329.5 [m]	C	OD
1331.3 [m]	C	OD
1331.4 [m]	C	OD
1342.8 [m]	C	OD
1359.8 [m]	C	OD
1359.8 [m]	C	OD
1365.7 [m]	C	OD
1367.6 [m]	C	OD
1369.4 [m]	C	OD
1371.4 [m]	C	OD
1373.6 [m]	C	OD
1376.6 [m]	C	ICHRON
1377.3 [m]	C	OD
1379.5 [m]	C	OD
1380.8 [m]	C	OD
1380.9 [m]	C	ICHRON
1388.7 [m]	C	OD
1388.9 [m]	C	OD
1395.6 [m]	C	OD
1397.5 [m]	C	OD
1401.7 [m]	C	OD
1401.9 [m]	C	OD
1402.7 [m]	C	ICHRON
1404.5 [m]	C	OD
1407.7 [m]	C	OD
1407.7 [m]	C	OD
1424.0 [m]	DC	OD
1442.0 [m]	DC	OD

1454.0 [m]	DC	OD
1469.0 [m]	DC	OD
1486.0 [m]	DC	OD
1498.0 [m]	DC	OD
1516.0 [m]	DC	OD
1530.0 [m]	DC	OD
1543.0 [m]	DC	OD
1561.0 [m]	DC	OD
1576.0 [m]	DC	OD
1591.0 [m]	DC	OD
1606.0 [m]	DC	OD
1621.0 [m]	DC	OD
1636.0 [m]	DC	OD
1639.0 [m]	DC	OD
1648.0 [m]	DC	OD
1666.0 [m]	DC	OD
1669.0 [m]	DC	OD
1678.0 [m]	DC	OD
1690.0 [m]	DC	OD
1711.0 [m]	DC	OD
1726.0 [m]	DC	OD
1741.0 [m]	DC	OD
1756.0 [m]	DC	OD
1771.0 [m]	DC	OD
1786.0 [m]	DC	OD
1798.0 [m]	DC	OD
1816.0 [m]	DC	OD
1831.0 [m]	DC	OD
1846.0 [m]	DC	OD
1861.0 [m]	DC	OD
1876.0 [m]	DC	OD
1891.0 [m]	DC	OD
1906.0 [m]	DC	OD
1921.0 [m]	DC	OD
1936.0 [m]	DC	OD
1948.0 [m]	DC	OD
1963.0 [m]	DC	OD
1966.0 [m]	DC	OD
1981.0 [m]	DC	OD
1993.0 [m]	DC	OD

2008.0 [m]	DC	OD
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2041.0 [m]	DC	OD
2056.0 [m]	DC	OD
2071.0 [m]	DC	OD
2086.0 [m]	DC	OD
2098.0 [m]	DC	OD
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2128.0 [m]	DC	OD
2146.0 [m]	DC	OD
2161.0 [m]	DC	OD
2170.0 [m]	DC	OD
2191.0 [m]	DC	OD
2206.0 [m]	DC	OD
2221.0 [m]	DC	OD
2233.0 [m]	DC	OD
2248.0 [m]	DC	OD
2263.0 [m]	DC	OD
2263.0 [m]	DC	OD
2281.0 [m]	DC	OD
2296.0 [m]	DC	OD
2311.0 [m]	DC	OD
2326.0 [m]	DC	OD
2335.0 [m]	DC	OD
2347.0 [m]	DC	OD
2365.0 [m]	DC	OD
2383.0 [m]	DC	OD
2392.0 [m]	DC	OD
2395.0 [m]	DC	OD
2401.0 [m]	DC	OD
2410.0 [m]	DC	OD
2428.0 [m]	DC	OD
2446.0 [m]	DC	OD
2458.0 [m]	DC	OD
2467.0 [m]	DC	OD
2491.0 [m]	DC	OD
2500.0 [m]	DC	OD
2506.0 [m]	DC	OD
2521.0 [m]	DC	OD
2530.0 [m]	DC	OD

2536.0 [m]	DC	OD
2551.0 [m]	DC	OD
2566.0 [m]	DC	OD
2581.0 [m]	DC	OD
2596.0 [m]	DC	OD
2611.0 [m]	DC	OD
2626.0 [m]	DC	OD
2641.0 [m]	DC	OD
2656.0 [m]	DC	OD
2656.0 [m]	DC	OD
2668.0 [m]	DC	OD
2686.0 [m]	DC	OD
2701.0 [m]	DC	OD
2716.0 [m]	DC	OD
2728.0 [m]	DC	OD
2746.0 [m]	DC	OD
2758.0 [m]	DC	OD
2776.0 [m]	DC	OD
2791.0 [m]	DC	OD
2806.0 [m]	DC	OD
2821.0 [m]	DC	OD
2836.0 [m]	DC	OD
2851.0 [m]	DC	OD
2866.0 [m]	DC	OD
2881.0 [m]	DC	OD
2896.0 [m]	DC	OD
2911.0 [m]	DC	OD
2923.0 [m]	DC	OD
2941.0 [m]	DC	OD
2956.0 [m]	DC	OD
2971.0 [m]	DC	OD
2986.0 [m]	DC	OD
3001.0 [m]	DC	OD
3016.0 [m]	DC	OD
3031.0 [m]	DC	OD
3046.0 [m]	DC	OD
3061.0 [m]	DC	OD
3076.0 [m]	DC	OD
3091.0 [m]	DC	OD
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3121.0 [m]	DC	OD
3121.0 [m]	DC	OD
3136.0 [m]	DC	OD
3151.0 [m]	DC	OD
3166.0 [m]	DC	OD
3181.0 [m]	DC	OD
3196.0 [m]	DC	OD
3211.0 [m]	DC	OD
3226.0 [m]	DC	OD
3241.0 [m]	DC	OD
3256.0 [m]	DC	OD
3271.0 [m]	DC	OD
3286.0 [m]	DC	OD
3301.0 [m]	DC	OD
3316.0 [m]	DC	OD
3334.0 [m]	DC	OD
3346.0 [m]	DC	OD
3364.0 [m]	DC	OD
3376.0 [m]	DC	OD
3394.0 [m]	DC	OD
3406.0 [m]	DC	OD
3421.0 [m]	DC	OD
3436.0 [m]	DC	OD
3451.0 [m]	DC	OD
3466.0 [m]	DC	OD
3481.0 [m]	DC	OD
3491.0 [m]	DC	OD
3505.0 [m]	DC	OD
3520.0 [m]	DC	OD
3535.0 [m]	DC	OD
3550.0 [m]	DC	OD
3550.0 [m]	DC	OD
3565.0 [m]	DC	OD
3580.0 [m]	DC	OD
3595.0 [m]	DC	OD
3610.0 [m]	DC	OD
3619.0 [m]	DC	OD
3625.0 [m]	DC	OD
3640.0 [m]	DC	OD
3655.0 [m]	DC	OD

3676.0 [m]	DC	OD
3694.0 [m]	DC	OD
3715.0 [m]	DC	OD
3736.0 [m]	DC	OD
3754.0 [m]	DC	OD
3778.0 [m]	DC	OD
3796.0 [m]	DC	OD
3814.0 [m]	DC	OD
3835.0 [m]	DC	OD
3856.0 [m]	DC	OD
3874.0 [m]	DC	OD
3895.0 [m]	DC	OD
3916.0 [m]	DC	OD
3934.0 [m]	DC	OD
3955.0 [m]	DC	OD
3976.0 [m]	DC	OD
3994.0 [m]	DC	OD
4012.0 [m]	DC	OD
4015.0 [m]	DC	OD
4036.0 [m]	DC	OD
4042.0 [m]	DC	OD
4054.0 [m]	DC	OD
4075.0 [m]	DC	OD
4093.0 [m]	DC	OD
4114.0 [m]	DC	OD
4132.0 [m]	DC	OD
4378.0 [m]	DC	OD
4399.0 [m]	DC	OD

Lithostratigraphy

Top depth [m]	Lithostrat. unit
296	NORDLAND GP
406	SOTBAKKEN GP
574	NYGRUNNEN GP
574	KVEITE FM
618	ADVENTDALEN GP
618	KOLMULE FM
1220	KOLJE FM
1233	HEKKINGEN FM

1285	KAPP TOSCANA GP
1285	TUBÅEN FM
1305	FRUHOLMEN FM
1438	SNADD FM
1893	SASSEDALEN GP
1893	KOBBE FM
2334	KLAPPMYSS FM
2671	HAVERT FM
3475	TEMPELFJORDEN GP
3475	ØRRET FM
3670	RØYE FM
3900	BJARMELAND GP
3900	ISBJØRN FM
3952	ULV FM
4000	POLARREV FM
4271	GIPSDALEN GP
4271	ØRN FM

Composite logs

Document name	Document format	Document size [KB]
1066	pdf	0.91

Geochemical information

Document name	Document format	Document size [KB]
1066_1	pdf	2.47
1066_2	pdf	3.13

Documents - older NPD WDSS reports and other related documents

Document name	Document format	Document size [KB]
1066_01_WDSS_General_Information	pdf	0.43
1066_02_WDSS_completion_log	pdf	0.39
1066_01_WDSS_General_Information	pdf	0.43
1066_02_WDSS_completion_log	pdf	0.39

Documents - reported by the production licence (period for duty of secrecy expired)

Document name	Document format	Document size [KB]
1066_7124_3_1_COMPLETION_REPORT_AND_LOG	pdf	18.47

Logs

Log type	Log top depth [m]	Log bottom depth [m]
DIL BHC GR	295	763
DIL LSS GR	759	2433
DIL LSS GR	2419	4038
DLL GR	2419	4036
DLL MSFL GR	1160	1407
DLL SDT GR	4036	4674
GR	273	360
LDL CNL	3959	4681
LDL CNL GR	257	761
LDL CNL GR	759	2433
LDL CNL GR	1160	1406
LDL CNL GR	2419	4036
LDL CNL GR	4681	4734
LSS GR	4658	4731
MWD - GR RES	361	4730
NGT	759	2433
RFT HP	1286	1394
RFT HP	1290	2354
SHDT	759	2429
SHDT	2419	4039
SHDT	3997	4682
SWC	370	570
SWC	635	1175
SWC	1178	4730
VSP	1200	4035
VSP	3900	4658

Casing and leak-off tests

Casing type	Casing diam. [inch]	Casing depth [m]	Hole diam. [inch]	Hole depth [m]	LOT mud eqv. [g/cm3]	Formation test type
CONDUCTOR	30	356.0	36	360.0	0.00	LOT
SURF.COND.	20	758.0	26	765.0	1.66	LOT
INTERM.	13 3/8	2419.0	17 1/2	2443.0	1.86	LOT
OPEN HOLE		4730.0	12 1/4	4730.0	0.00	LOT

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
310	1.05			WATER BASED	01.06.1987
355	1.38	10.0	2.9	WATER BASED	21.10.1987
360	1.05			WATER BASED	01.06.1987
360	1.14	8.0	11.5	WATER BASED	04.06.1987
361	1.05	8.0	11.5	WATER BASED	03.06.1987
361	1.05			WATER BASED	01.06.1987
529	1.12	8.0	11.5	WATER BASED	09.06.1987
570	1.35	10.0	10.6	WATER BASED	09.06.1987
601	1.35	10.0	11.5	WATER BASED	09.06.1987
630	1.05	6.0	8.7	WATER BASED	09.06.1987
702	1.40	12.0	3.4	WATER BASED	21.10.1987
764	1.05	8.0	15.4	WATER BASED	09.06.1987
764	1.05	40.0	71.9	WATER BASED	12.06.1987
764	1.05	5.0	9.6	WATER BASED	11.06.1987
764	1.05	40.0	71.9	WATER BASED	11.06.1987
764	1.05	13.0	35.5	WATER BASED	15.06.1987
765	1.03	10.0	10.6	WATER BASED	16.06.1987
765	1.20			WATER BASED	16.06.1987
765	1.03	11.0	6.8	WATER BASED	18.06.1987
765	1.03	10.0	5.8	WATER BASED	18.06.1987
765	1.03	10.0	5.3	WATER BASED	24.06.1987
765	1.03	10.0	6.3	WATER BASED	18.06.1987
1023	1.10	10.0	6.3	WATER BASED	24.06.1987
1160	1.30	18.0	8.7	WATER BASED	24.06.1987
1287	1.30	18.0	8.2	WATER BASED	24.06.1987
1312	1.30	18.0	8.2	WATER BASED	24.06.1987
1331	1.48	20.0	7.7	WATER BASED	26.06.1987

1357	1.48	20.0	7.7	WATER BASED	26.06.1987
1357	1.48	20.0	8.2	WATER BASED	26.06.1987
1374	1.48	20.0	9.6	WATER BASED	29.06.1987
1386	1.48	20.0	7.2	WATER BASED	29.06.1987
1408	1.46	19.0	8.7	WATER BASED	30.06.1987
1408	1.48	20.0	9.1	WATER BASED	29.06.1987
1408	1.35	18.0	8.2	WATER BASED	01.07.1987
1408	1.35	18.0	8.2	WATER BASED	02.07.1987
1408	1.35	17.0	7.7	WATER BASED	14.07.1987
1408	1.35	18.0	8.2	WATER BASED	14.07.1987
1408	1.40	16.0	7.2	WATER BASED	14.07.1987
1408	1.40	16.0	7.7	WATER BASED	14.07.1987
1472	1.40	14.0	7.2	WATER BASED	14.07.1987
1492	1.40	16.0	6.8	WATER BASED	14.07.1987
1540	1.40	13.0	6.3	WATER BASED	14.07.1987
1599	1.35	13.0	6.3	WATER BASED	14.07.1987
1633	1.33	15.0	6.3	WATER BASED	14.07.1987
1735	1.32	15.0	6.8	WATER BASED	14.07.1987
1782	1.30	14.0	7.2	WATER BASED	14.07.1987
1812	1.30	12.0	6.8	WATER BASED	14.07.1987
1894	1.30	13.0	6.8	WATER BASED	14.07.1987
1933	1.30	12.0	6.8	WATER BASED	15.07.1987
1974	1.30	11.0	6.3	WATER BASED	16.07.1987
2033	1.30	9.0	5.8	WATER BASED	17.07.1987
2086	1.30	10.0	6.3	WATER BASED	20.07.1987
2107	1.30	8.0	6.8	WATER BASED	20.07.1987
2160	1.30	14.0	6.3	WATER BASED	20.07.1987
2212	1.30	16.0	6.3	WATER BASED	21.07.1987
2215	1.30	14.0	6.3	WATER BASED	22.07.1987
2250	1.40	13.0	4.8	WATER BASED	19.10.1987
2256	1.30	15.0	6.3	WATER BASED	23.07.1987
2298	1.30	16.0	6.8	WATER BASED	23.07.1987
2324	1.30	17.0	7.2	WATER BASED	27.07.1987
2377	1.30	15.0	7.2	WATER BASED	27.07.1987
2406	1.30	16.0	6.8	WATER BASED	27.07.1987
2433	1.30	7.0	5.3	WATER BASED	05.08.1987
2443	1.30	13.0	5.3	WATER BASED	31.07.1987
2443	1.30	12.0	5.8	WATER BASED	03.08.1987
2443	1.30	12.0	6.8	WATER BASED	28.07.1987
2443	1.30	13.0	6.8	WATER BASED	31.07.1987

2443	1.30	12.0	6.3	WATER BASED	03.08.1987
2443	1.30	10.0	5.3	WATER BASED	03.08.1987
2445	1.30	9.0	5.3	WATER BASED	05.08.1987
2508	1.24	8.0	4.4	WATER BASED	07.08.1987
2561	1.22	9.0	4.4	WATER BASED	10.08.1987
2590	1.21	9.0	3.9	WATER BASED	10.08.1987
2618	1.22	11.0	5.3	WATER BASED	10.08.1987
2619	1.21	10.0	4.8	WATER BASED	12.08.1987
2676	1.21	11.0	5.3	WATER BASED	13.08.1987
2721	1.20	9.0	5.8	WATER BASED	13.08.1987
2748	1.20	9.0	4.4	WATER BASED	14.08.1987
2807	1.20	10.0	3.9	WATER BASED	18.08.1987
2874	1.20	9.0	4.8	WATER BASED	18.08.1987
2964	1.23	10.0	4.8	WATER BASED	18.08.1987
3087	1.23	10.0	5.3	WATER BASED	19.08.1987
3160	1.23	7.0	6.3	WATER BASED	20.08.1987
3256	1.25	8.0	7.2	WATER BASED	21.08.1987
3309	1.28	10.0	5.3	WATER BASED	26.08.1987
3392	1.30	9.0	4.8	WATER BASED	26.08.1987
3470	1.30	9.0	4.8	WATER BASED	26.08.1987
3496	1.30	10.0	3.9	WATER BASED	26.08.1987
3546	1.30	10.0	3.9	WATER BASED	26.08.1987
3547	1.30	10.0	3.9	WATER BASED	28.08.1987
3547	1.30	7.0	4.4	WATER BASED	28.08.1987
3628	1.35	9.0	4.4	WATER BASED	03.09.1987
3657	1.35	9.0	4.4	WATER BASED	03.09.1987
3686	1.35	9.0	4.4	WATER BASED	07.09.1987
3707	1.35	9.0	4.8	WATER BASED	07.09.1987
3724	1.35	9.0	4.4	WATER BASED	07.09.1987
3736	1.35	9.0	4.4	WATER BASED	07.09.1987
3740	1.35	9.0	4.4	WATER BASED	09.09.1987
3770	1.35	9.0	4.8	WATER BASED	10.09.1987
3792	1.35	10.0	4.8	WATER BASED	11.09.1987
3804	1.35	9.0	4.8	WATER BASED	11.09.1987
3825	1.35	11.0	4.8	WATER BASED	14.09.1987
3833	1.35	10.0	4.4	WATER BASED	14.09.1987
3843	1.35	12.0	4.4	WATER BASED	14.09.1987
3868	1.35	13.0	5.3	WATER BASED	18.09.1987
3909	1.35	12.0	5.3	WATER BASED	18.09.1987
3945	1.35	11.0	4.4	WATER BASED	18.09.1987

4010	1.35	12.0	5.3	WATER BASED	18.09.1987
4042	1.35	12.0	4.4	WATER BASED	23.09.1987
4089	1.35	11.0	4.4	WATER BASED	23.09.1987
4181	1.35	14.0	5.3	WATER BASED	23.09.1987
4271	1.35	15.0	5.3	WATER BASED	24.09.1987
4282	1.35	14.0	4.8	WATER BASED	25.09.1987
4340	1.35	15.0	3.9	WATER BASED	28.09.1987
4351	1.35	16.0	5.8	WATER BASED	28.09.1987
4418	1.35	13.0	3.9	WATER BASED	28.09.1987
4437	1.40	12.0	3.9	WATER BASED	29.09.1987
4439	1.40	14.0	3.9	WATER BASED	01.10.1987
4439	1.40	14.0	3.9	WATER BASED	30.09.1987
4490	1.40	12.0	3.9	WATER BASED	05.10.1987
4515	1.40	12.0	4.4	WATER BASED	05.10.1987
4560	1.40	12.0	4.4	WATER BASED	05.10.1987
4606	1.40	12.0	4.4	WATER BASED	05.10.1987
4630	1.40	12.0	3.9	WATER BASED	06.10.1987
4640	1.40	12.0	4.8	WATER BASED	16.10.1987
4646	1.40	12.0	4.4	WATER BASED	07.10.1987
4669	1.40	12.0	3.9	WATER BASED	08.10.1987
4680	1.40	12.0	3.9	WATER BASED	09.10.1987
4730	1.40	11.0	4.4	WATER BASED	14.10.1987
4730	1.40	12.0	5.3	WATER BASED	16.10.1987