

Denne rapport
tilhører



L&U DOK. SENTER

L. NR. 12383420026

KODE Well 31/2-6 nr.18

Returneres etter bruk

NORSKE SHELL A/S

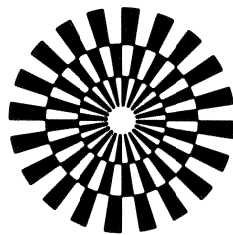
CONVENTIONAL CORE ANALYSIS

WELL: 31/2-6

CORE: 1 - 9

UND-ARKIVET

Nr:



GECO
GEOPHYSICAL COMPANY
OF NORWAY A/S

*Brine Porosity
not the porosity*

DATE: JAN. 1982
 COMPANY: SHELL
 WELL: 31/2-6
 CORE: 1
 STATE: NORWAY
 PAGE: 1

FIELD:
 GECO A.S. LABURATJLY
 FINAL REPORT

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DEPTH METER	HORIZONTAL PERMEABILITY MILLIDARCY KA	VERTICAL PERMEABILITY MILLIDARCY KLV	HELIUM POROSITY %	SUMM- ATION POROS. %	PORE- SATURATION SO	STW.	GRAIN DENS. GR/CC	FORMATION DESCRIPTION
1504.40	971.0	931.0	35.8				2.64	
<u>1504.50</u>	480.0	450.0	33.1				2.62	
1504.86	83.0	73.0	28.0				2.62	
1505.32	625.0	595.0	32.8				2.63	
1505.65	1577.0	1527.0	31.4				2.62	
1505.55	19905	19655	34.3				2.62	
1506.28	24756	24456	31.4				2.63	
1506.51	6682.0	6582.0	35.2				2.62	
1507.32	111.0	98.0	27.8				2.63	
1507.62	101.0	89.0	30.6				2.62	
1507.90	24.0	20.0	23.7				2.60	
1508.30	744.0	704.0	35.7				2.62	
1508.60	288.0	268.0	31.2				2.64	
1508.90	212.0	192.0	31.6				2.61	
1509.24	11679	11529	34.0				2.62	
1509.53	743.0	703.0	27.9				2.60	
1509.80	8155.0	8030.0	31.0				2.65	
1510.10	17422	17172	32.4				2.64	
1510.40	567.0	537.0	17.2				2.65	
1510.72	300.0	270.0	34.1				2.63	
1511.00	320.0	290.0	34.2				2.66	
1511.35	339.0	309.0	34.5				2.65	
1511.60	102.0	90.0	30.1				2.65	
1511.91	74.0	64.0	30.6				2.66	
1512.21	82.0	72.0	29.2				2.66	
1512.50	86.0	75.0	29.5				2.65	
1512.80	102.0	90.0	30.0				2.64	
1513.17	140.0	125.0	30.5				2.59	
1513.40	114.0	101.0	29.0				2.58	
1513.80	60.0	52.0	29.0				2.60	
1514.00		15.0	12.0					

+) NO MEASUREMENT POSSIBLE
 ++) NO PLUG POSSIBLE
 +++) NO VERTICAL PLUG POSSIBLE
 ++++) NO HORIZONTAL PLUG POSSIBLE

DATE: JAN.1982

PAGE: 2

COMPANY: SHELL

CORE: 2

WELL: 31/2-6

STATE: NORWAY

FIELD:

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 * GECO A.S. LABURAJIY *
 * FINAL REPORT *
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DEPTH METER	HORIZONTAL PERMEABILITY MILLIDARCY KA	VERTICAL PERMEABILITY MILLIDARCY KL	HELIUM POROSITY %	SUMM- ATION POROS. %	PORE- SATURATION SO	GRAIN DENS. GR/CC	FORMATION DESCRIPTION
1514.00	47.0	40.0	26.6			2.62	
1514.00	21.0	17.0	26.2			2.63	
1514.30	62.0	53.0	27.9			2.62	
1514.64	108.0	96.0	29.5			2.63	
1514.58	94.0	83.0	30.2			2.61	
1515.31	36690.	36250.	34.4			2.65	
1515.56	13904.	13704.	26.5			2.68	
1515.50	9459.0	9334.0	28.7			2.64	
1516.22	21330.	21030.	30.8			2.63	
1516.65	8183.0	8058.0	30.8			2.65	
1516.91	26094.	25744.	35.3			2.64	
1517.25	16934.	16884.	31.5			2.68	
1517.63	15414.	15214.	33.8			2.64	
1518.36	23513.	23213.	32.5			2.65	
1518.67	17885.	17635.	32.8			2.64	
1518.97	18158.	17908.	32.7			2.63	
1519.54	17125.	16879.	33.8			2.64	
1519.72	5740.0	5660.0	28.9			2.62	
1520.04	11289.	11139.	31.7			2.61	
1520.49	4807.0	4727.0	33.3			2.61	
1529.64	7864.0	7735.0	34.7			2.63	
1521.18	7545.0	7420.0	34.4			2.61	
1521.43	9929.0	9804.0	33.6			2.62	
1521.70	0.13	0.08	1.3			2.68	
1521.56	0.10	0.06	0.9			2.67	
1522.36	0.39	0.25	3.0			2.76	
1522.66	2008.0	1948.0	29.3			2.64	
1522.96	6806.0	6701.0	34.8			2.68	
1523.37	5610.0	5530.0	32.2			2.65	
1523.71	5685.0	5605.0	31.6			2.66	
1523.97	5360.0	5280.0	32.1			2.65	
1524.34	6856.0	6756.0	33.1			2.63	
1524.66	8360.0	8235.0	35.0			2.65	
1524.97	650.0	623.0	29.0			2.74	
1525.24	3902.0	3822.0	33.0			2.65	
1525.56	5122.0	5042.0	34.9			2.64	
1525.84	6686.0	6586.0	33.7			2.64	
1526.18	11426.	11276.	33.7			2.63	
1526.46	5549.0	5469.0	33.9			2.63	
1526.76	4808.0	4728.0	33.6			2.63	
1527.10	7642.0	7517.0	34.1			2.63	
1527.36	10983.	10833.	33.9			2.63	
1527.68	5827.0	5727.0	35.0			2.62	
1527.98	6493.0	6393.0	34.7			2.62	

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+) NO MEASUREMENT POSSIBLE
PLUG POSSIBLE
+++ NO VERTICAL PLUG POSSIBLE
++++ NO HORIZONTAL PLUG POSSIBLE

COMPANY: SHELL DATE: JAN. 1982
 WELL: 31/2-6 CORE: 2
 FIELD: STATE: NJRAY

DEPTH METER	HORIZONTAL PERMEABILITY		VERTICAL PERMEABILITY		HELIUM POROSITY %	SUMM- ATION POROS. %	PORE- SATURATION		GRAIN DENS. GR/CC	FORMATION DESCRIPTION
	KA	KL	KA	KL			SO	STM.		
1528.28	2932.0	2852.0			34.1				2.62	
1528.55	2707.0	2627.0			31.8				2.63	
1528.84	3725.0	3645.0			34.1				2.64	
1529.16	5419.0	5335.0			35.9				2.65	
1529.46	6243.0	6143.0			34.5				2.65	
1529.76	1928.0	1868.0	4349.0	4269.0	34.7				2.65	
1530.06	5831.0	5731.0			34.4				2.65	
1530.36	3144.0	3064.0			35.2				2.64	
1530.66	2514.0	2434.0			33.7				2.64	
1530.96	7331.0	7231.0			33.3				2.64	
1531.26	5671.0	5591.0			34.4				2.64	
1532.16	5176.0	5096.0			34.4				2.64	
1532.40	4088.0	4008.0			34.0				2.62	
1532.52										

+) NO MEASUREMENT POSSIBLE.
 ++ NO PLUG POSSIBLE
 +++ NO VERTICAL PLUG POSSIBLE
 ++++ NO HORIZONTAL PLUG POSSIBLE

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COMPANY: SHELL
 DATE: JAN-1982
 WELL: 31/2-6
 CORE: 3
 STATE: NORWAY

GECO A.S. LABORATORY
 FINAL REPORT

HORIZONTAL PERMEABILITY MILLIDARCY KA
 VERTICAL PERMEABILITY MILLIDARCY KL
 HELIUM POROSITY %
 SUMMATION POROSITY %
 PORE SATURATION SO
 STW
 GRAIN DENS GR/CC
 FORMATION DESCRIPTION

DEPTH METER	HORIZONTAL PERMEABILITY MILLIDARCY KA	VERTICAL PERMEABILITY MILLIDARCY KL	HELIUM POROSITY %	SUMMATION POROSITY %	PORE SATURATION SO	STW	GRAIN DENS GR/CC	FORMATION DESCRIPTION
1532.50	6217.0	6117.0	34.4				2.62	
1532.79	1165.0	1115.0	34.2				2.64	
1533.00	982.0	942.0	35.0	512.0			2.63	
1533.25	1533.53	369.0	30.0				2.64	
1533.85	1190.0	1140.0	34.2				2.62	
1534.19	1138.0	1088.0	35.1				2.63	
1534.43	557.0	527.0	34.2				2.64	
1534.67	311.0	281.0	33.3				2.64	
1535.02	255.0	235.0	33.2				2.64	
1535.33	466.0	36.0	34.6				2.64	
1535.58	561.0	531.0	35.3				2.64	
1535.97	265.0	245.0	32.5				2.65	
1536.27	106.0	94.0	30.7	175.0			2.64	
1536.50	385.0	355.0	33.9				2.66	
1536.82	498.0	468.0	35.0				2.65	
1537.00	463.0	433.0	34.2				2.66	
1537.32	381.0	351.0	33.8				2.66	
1537.69	315.0	285.0	33.6				2.65	
1537.92	226.0	206.0	33.0				2.64	
1538.20	32.0	27.0	28.0				2.65	
1538.64	190.0	170.0	32.3				2.64	
1538.88	83.0	73.0	29.8				2.65	
1539.15	16.0	13.0	27.2	9.1	7.0		2.65	
1539.45	348.0	313.0	35.8				2.65	
1539.75	45.0	38.0	29.1				2.66	
1540.05	13.0	10.0	26.1				2.65	
1540.51	89.0	78.0	30.6				2.66	
1540.75	16.0	13.0	27.2				2.65	
1540.94	39.0	33.0	27.9				2.65	
1541.40	11.5	9.0	25.4				2.66	
1541.65	30.0	25.0	28.2				2.66	
1541.88	8.2	6.3	26.0				2.66	
1542.30	42.0	35.0	26.5	17.0	14.0		2.68	
1542.52	16.0	13.0	23.7				2.72	
1542.80	2484.5	2454.5	32.5				2.70	
1543.13	1789.3	1764.3	29.5				2.70	
1543.38	1793.0	1758.0	34.5				2.65	
1543.60	2244.6	2214.6	32.7				2.66	
1544.09	2619.0	2584.0	31.6				2.67	
1544.34	2030.0	2000.0	32.3				2.66	
1544.55	7244.0	7144.0	30.7				2.68	
1544.80	10838.0	10688.0	33.9				2.68	
1545.13	11644.0	11454.0	33.8	6333.0	6233.0		2.65	
1545.43	21277.0	20977.0	34.0				2.65	

NO HORIZONTAL PLUG POSSIBLE
NO PLUG POSSIBLE
VERTICAL PLUG POSSIBLE
NO HORIZONTAL PLUG POSSIBLE

COMPANY: SHELL DATE: JAN. 1982

WELL: 31/2-6 CORL: 3

FIELD: STATE: NUNAWAY

PAGE: 5

DEPTH METER	HORIZONTAL PERMEABILITY		VERTICAL PERMEABILITY		HELIUM POROSITY %	SUMM- ATION POROS. %	PORE- SATURATION		GRAIN DENS. GR/CC	FORMATION DESCRIPTION
	KA	KL	KA	KL			SU	STM.		
1545.83	5076.0	4996.0			33.5				2.64	
1546.17	2164.0	2104.0			33.4				2.65	
1546.40	1156.0	1106.0			33.1				2.63	
1546.70	1589.0	1539.0			33.7				2.65	
1547.00	3607.0	3527.0			34.9				2.66	
1547.33	3172.0	3123.0			33.6				2.62	
1547.60	25158.	24808.			30.1				2.65	
1547.90	13487.	13267.			30.1				2.65	
1548.20	4110.0	4030.0	4901.0	4621.0	31.2				2.71	
1548.50	14029.	13829.			31.7				2.65	
1548.80	17736.	17486.			32.6				2.65	
1549.20	17755.	17505.			33.3				2.64	
1549.55	23517.	23217.			34.6				2.62	
1549.82	35162.	34762.			34.1				2.63	
1550.10	5550.0	5470.0			32.3				2.69	
1550.35	19089.	18839.			34.3				2.63	
1550.65	29787.	29437.			34.7				2.62	

+) NO MEASUREMENT POSSIBLE
 ++ NO PLUG POSSIBLE
 +++ NO VERTICAL PLUG POSSIBLE
 ++++ NO HORIZONTAL PLUG POSSIBLE

DATE: JAN.1982

CORE: 4

STATE: NORWAY

COMPANY: SHELL

WELL: 31/2-6

FIELD:

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DEPTH METER	HORIZONTAL PERMEABILITY MILLIDARCY		VERTICAL PERMEABILITY MILLIDARCY		HELIUM POROSITY %	SUMM- ATION POROS. %	PORE- SATURATION S0	GRAIN DENS. GR/CC	FORMATION DESCRIPTION
	KA	KL	KA	KL					
1551.00									
1551.02	16956.	16706.			33.4			2.68	
1551.46	11220.	11070.	7407.0	7307.0	32.3			2.67	
1551.77	12464.	12313.			34.4			2.67	
1552.23	12252.	12102.			34.3			2.65	
1552.58	8433.0	8308.0			34.5			2.66	
1552.88	9290.0	9165.0			34.2			2.66	
1553.16	7888.0	7763.0			34.9			2.65	
1553.46	9930.0	9805.0			32.1			2.68	
1553.83	11306.	11156.			31.1			2.67	
1554.19	4944.0	4864.0			31.6			2.67	
1554.49	9014.0	8885.0			32.6			2.66	
1554.87	4325.0	4245.0	2550.0	2470.0	30.7			2.65	
1555.20	3631.0	3551.0			32.0			2.66	
1555.56	2.3	1.6			13.0			2.68	
1555.80									

+) NO MEASUREMENT POSSIBLE
 ++ NO PLUG POSSIBLE
 +++ NO VERTICAL PLUG POSSIBLE
 ++++ NO HORIZONTAL PLUG POSSIBLE

DATE: JAN. 1982

CORE: 5

STATE: NORWAY

PAGE: 7

COMPANY: SHELL

WELL: 31/2-6

FIELD:

 * GECO A.S. LABUTAJIY *****
 * FINAL REPORT *
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DEPTH METER	HORIZONTAL PERMEABILITY MILLIDARCY KA KL	VERTICAL PERMEABILITY MILLIDARCY KA KL	HELLUM POROSITY %	SUMM- ATION POROS. %	PURE- SATURATION SO STM.	GRAIN DENS. GR/CC	FORMATION DESCRIPTION
1557.50			32.9			2.63	
1558.24	1033.0	983.0	32.9			2.63	
1558.54	337.0	307.0	25.2			2.64	
1558.98	18170.	17920.	32.2			2.65	
1559.33	38382.	37932.	31.0			2.64	
1559.65	33124.	32724.	32.8			2.63	
1559.95	42915.	42415.	34.2			2.65	
1560.25	36649.	36199.	33.8			2.64	
1560.55	29946.	29556.	33.2		31455.	2.64	
1560.83	7130.0	7030.0	30.1			2.66	
1561.14	30285.	29885.	34.0			2.63	
1561.46	29161.	28811.	30.7			2.65	
1561.74	49653.	49153.	32.3			2.63	
1562.08	39592.	39142.	32.4			2.64	
1562.63	32414.	32014.	33.9			2.63	
1562.96	7681.0	7556.0	33.3			2.65	
1563.24	10329.	10179.	35.0			2.65	
1563.53	11912.	11762.	33.6			2.63	
1563.81	6504.0	6404.0	33.1		4996.0	2.67	
1564.14	1208.0	1158.0	30.6			2.67	
1564.43	10322.	10372.	33.0			2.65	
1564.74	9134.0	9009.0	33.2			2.65	
1565.05	4726.0	4646.0	33.7			2.65	
1565.33	4784.0	4734.0	34.7			2.64	
1565.62	7765.0	7640.0	33.6			2.65	
1565.90	5925.0	5825.0	32.3			2.64	
1566.22	6381.0	6281.0	33.6			2.65	
1566.49	9469.0	9344.0	32.7			2.65	
1566.79	7075.0	6975.0	33.5		6990.0	2.66	
1567.14	8061.0	7836.0	33.7			2.65	
1567.42	10986.	10838.	32.6			2.64	
1567.74	9862.0	9737.0	33.9			2.64	
1568.04	1168.0	1118.0	27.3			2.66	
1568.32	7556.0	7431.0	33.1			2.65	
1568.65	18470.	18220.	34.8			2.63	
1568.90	8236.0	8111.0	34.0			2.65	
1569.16	18489.	18239.	34.0			2.64	
1569.55	13611.	13411.	33.8			2.65	
1569.87	14209.	14009.	34.3		13794.	2.64	
1570.18	10623.	10473.	31.8			2.64	
1570.49	11113.	10963.	33.8			2.63	
1570.65	10524.	10374.	35.0			2.63	
1571.10	10342.	10192.	35.2			2.63	
1571.41	8212.0	8087.0	33.4			2.65	
1571.66	5123.0	5043.0	33.3			2.64	

NO HORIZONTAL PLUG POSSIBLE
NO VERTICAL PLUG POSSIBLE
NO HORIZONTAL PLUG POSSIBLE
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+++)

COMPANY: SHELL DATE: JAN. 1982
 WELL: 31/2-6 CORE: 5
 FIELD: STATE: NORWAY

DEPTH METER	HORIZONTAL PERMEABILITY MILLIDARCY		VERTICAL PERMEABILITY MILLIDARCY		HELIUM POROSITY %	SUMM- ATION POKOS. %	PORE- SATURATION		GRAIN DENS. GR/CC	FORMATION DESCRIPTION
	KA	KL	KA	KL			SO	STH.		
1571.98	8359.0	8234.0			34.9				2.63	
1572.34	11833.	11683.	12631.	12481.	35.4				2.64	
1572.61	14916.	14716.	14692.	14492.	35.0				2.63	
1572.91	20026.	19726.	11992.	11842.	33.6				2.61	
1573.21	15469.	15269.	4154.0	4114.0	35.3				2.63	
1573.46	11183.	11033.	7715.0	7590.0	34.6				2.63	
1573.74	4269.0	4185.0	6115.0	6015.0	34.0				2.66	
1574.04	4949.0	4865.0	+++)		33.7				2.63	
1574.34	7600.0	7475.0	8157.0	8032.0	34.5				2.64	
1574.64	12118.	11968.	0+++)		33.2				2.64	
1574.94	4173.0	4093.0	4347.0	4267.0	34.9				2.65	
1575.23	5289.0	5209.0	1233.0	1183.0	35.1				2.66	
1575.53	7197.0	7097.0	3901.0	3821.0	34.0				2.66	
1575.80										

+) NO MEASUREMENT POSSIBLE
 ++)) NO PLUG POSSIBLE
 +++)) NO VERTICAL PLUG POSSIBLE
 +++++) NO HORIZONTAL PLUG POSSIBLE

CORE: 6

WELL: 31/2-6

STATE: NORWAY

FIELD:

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 * CECO A.S. LABUKAJIY *
 * FINAL REPORT *
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DEPTH METER	HORIZONTAL PERMEABILITY MILLIDARCY		VERTICAL PERMEABILITY MILLIDARCY		HELIUM POROSITY %	SUMM- ATION POROS. %	PORE- SATURATION SD	GRAIN DENS. GR/CC	FORMATION DESCRIPTION
	KA	KL	KA	KL					
1576.00	3065.0	2985.0	2052.0	1992.0	32.1			2.65	
1576.10	+++)		321.0	294.0	30.1			2.66	
1576.39	4611.0	4531.0	3360.0	3280.0	34.6			2.64	
1576.69	3517.0	3437.0	2345.0	2206.0	33.3			2.66	
1577.29	4272.0	4192.0	216.0	196.0	31.5			2.64	
1577.59	3065.0	2985.0	2352.0	2272.0	30.1			2.65	
1579.01	1847.0	1787.0	2918.0	2838.0	31.6			2.67	
1579.48	3668.0	3588.0	2274.0	2214.0	33.1			2.66	
1579.76	2726.0	2646.0	1077.0	1047.0	31.5			2.64	
1580.04	4027.0	3947.0	2142.0	2082.0	31.7			2.66	
1580.34	4737.0	4657.0	3025.0	2945.0	33.9			2.66	
1580.64	3874.0	3794.0	2577.0	2897.0	32.3			2.66	
1580.94	3448.0	3368.0	2981.0	2901.0	32.6			2.66	
1581.29	4563.0	4483.0	3499.0	3419.0	31.5			2.64	
1581.54	4891.0	4811.0	2340.0	2250.0	32.0			2.64	
1581.84	2981.0	2901.0	1953.0	1843.0	33.2			2.65	
1582.14	4471.0	4391.0	1927.0	1867.0	32.1			2.65	
1582.35									

- +) NO MEASUREMENT POSSIBLE
- ++) NO PLUG POSSIBLE
- +++) NO VERTICAL PLUG POSSIBLE
- ++++) NO HORIZONTAL PLUG POSSIBLE

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COMPANY: SHELL
 WELL: 31/2-6
 FIELD:
 DATE: JAN. 1982
 CORE: 7
 STATE: NORWAY

DEPTH METER	HORIZONTAL PERMEABILITY MILLIDARCY		VERTICAL PERMEABILITY MILLIDARCY		HELIUM POROSITY %	SUMM- ATION POROS. %	PORE- SATURATION SO	GRAIN DENS. GR/CC	FORMATION DESCRIPTION
	KA	KL	KA	KL					
1583.90					33.2			2.69	
1584.45	268.0	248.0			32.2			2.65	
1584.82	2881.0	2801.0			31.9			2.65	
1585.13	480.0	450.0			35.6			2.65	
1586.17	10162.	10012.	5382.0	6282.0	27.0			2.58	
1586.74	102.0	92.0			34.8			2.65	
1587.07	2677.0	2597.0			37.3			2.65	
1587.33	7717.0	7592.0			36.7			2.64	
1587.60	10308.	10158.			36.0			2.65	
1587.93	11203.	11053.			33.4			2.68	
1588.24	3425.0	3345.0			31.9			2.64	
1588.57	1781.0	1721.0			35.0			2.65	
1588.83	2576.0	2496.0			27.9			2.59	
1589.11	76.0	66.0			28.3			2.56	
1589.41	173.0	150.0	18.0	15.0	31.2			2.66	
1589.72	273.0	253.0			26.4			2.64	
1590.01	40.0	34.0			29.5			2.66	
1590.29	9499.0	9374.0			34.0			2.65	
1590.59	1409.0	1355.0			30.6			2.64	
1591.05	467.0	437.0			25.6			2.65	
1592.02	84.0	74.0			28.9			2.68	
1592.64	28.0	23.0			27.8			2.67	
1592.94	45.0	38.0			20.8			2.64	
1593.26	7.9	6.1			19.9			2.68	
1593.54	2.1	1.5	0.78	0.52	23.4			2.69	
1593.77	3.2	2.3			33.7			2.65	
1594.00	1.9	1.3			35.5			2.64	
1594.37	4.1	3.0			35.5			2.66	
1594.67	4.0	2.9			35.5			2.65	
1595.45	6057.0	5957.0			34.0			2.66	
1595.75	5730.0	5650.0			34.3			2.66	
1596.00	6573.0	6473.0			31.0			2.67	
1596.39	2415.0	2335.0			33.1			2.66	
1596.69	4800.0	4720.0			34.7			2.65	
1596.99	3580.0	3500.0	4551.0	4471.0	35.5			2.66	
1597.27	3027.0	2947.0			36.2			2.65	
1597.57	1371.0	1321.0			23.3			2.66	
1597.87	3779.0	3695.0			1.3			2.66	
1598.17	1401.0	1351.0			1.8			2.65	
1598.47	2568.0	2486.0			1.3			2.66	
1598.77	3328.0	3248.0			1.8			2.65	
1599.07	3794.0	3714.0			1.3			2.66	
1600.17	2990.0	2910.0			1.3			2.65	
1600.47	4198.0	4118.0			1.3			2.66	
1602.10	4.3	3.2	1.8	1.3	23.3			2.66	

NO MEASUREMENT POSSIBLE
NO PLUG POSSIBLE
NO VERTICAL PLUG POSSIBLE
NO HORIZONTAL PLUG POSSIBLE

COMPANY: SHELL DATE: JAN. 1982
 WELL: 31/2-6 CORE: 7
 FIELD: STATE: NOKWAY

DEPTH METER	HORIZONTAL PERMEABILITY MILLIDARCY KA	VERTICAL PERMEABILITY MILLIDARCY KL	HELIUM POROSITY %	SUMM- ATION POKOS. %	PURE- SATURATION SU	GRAIN DENS. GR/CC	FORMATION DESCRIPTION
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1602.30

+) NO MEASUREMENT POSSIBLE
 ++ NO PLUG POSSIBLE
 +++ NO VERTICAL PLUG POSSIBLE
 ++++ NO HORIZONTAL PLUG POSSIBLE

DATE: JAN.1982
 CORE: 8
 STATE: NORWAY

COMPANY: SHELL
 WELL: 31/2-6
 FIELD:

 * GECO A.S. LABORATORY *
 * FINAL REPORT *

DEPTH METER	HORIZONTAL PERMEABILITY MILLIDARCY		VERTICAL PERMEABILITY MILLIDARCY		HELIUM POROSITY %	SUMM- ATION POROS. %	PORE- SATURATION		GRAIN DENS. GR/CC	FORMATION DESCRIPTION
	KA	KL	KA	KL			SU	STM		
1602.80	1.6	1.1			21.0				2.67	
1602.80	2.9	2.1			23.0				2.68	
1603.10	3.7	2.7			22.9				2.67	
1603.40	2.1	1.5			20.8				2.67	
1603.70	2.7	1.9			20.8				2.66	
1604.05	4.6	3.4			23.0				2.67	
1604.30	10.4	8.1			25.2				2.68	
1604.60	33.0	28.0			27.5				2.61	
1605.20	54.0	46.0			29.2				2.67	
1605.50	33.0	28.0			29.3				2.68	
1605.79	48.0	41.0	37.0	31.0	27.4				2.67	
1606.07	260.0	240.0			21.3				2.67	
1606.36	651.0	621.0			13.1				2.69	
1606.66	0.04	0.02			2.8				2.73	
1606.99	2.9	2.1			14.1				2.67	
1607.28	1.3	0.91			12.4				2.68	
1607.63	0.16	0.10			9.5				2.73	
1607.90	0.25	0.16			9.0				2.69	
1608.18	1054.0	1004.0			32.3				2.67	
1608.46	4186.0	4106.0	1741.0	1681.0	28.4				2.66	
1608.90	2569.0	2489.0			33.5				2.66	
1609.20	1604.0	1554.0			35.2				2.66	
1609.50	575.0	545.0			33.5				2.67	
1609.80	5.6	4.2			22.3				2.76	
1610.10	1.7	1.2			20.1				2.71	
1610.36	104.0	93.0			26.9				2.67	
1610.70	122.0	109.0			26.2				2.67	
1611.00	9726.0	9601.0			31.6				2.65	
1611.30	5533.0	5453.0			32.5				2.65	
1611.59	11703.	11553.	2837.0	2757.0	30.2				2.64	
1611.90	4058.0	3978.0			31.5				2.65	
1612.17	3821.0	3741.0			31.4				2.65	
1612.50	3174.0	3094.0			32.7				2.65	
1612.80	3168.0	3088.0			32.0				2.65	
1613.05	2829.0	2745.0			33.1				2.66	
1613.30	4455.0	4375.0			32.7				2.66	
1613.60	1214.0	1154.0			29.5				2.66	
1613.86	2815.0	2735.0			30.2				2.64	
1614.16	2168.0	2108.0			30.9				2.65	
1614.60	1505.0	1455.0			30.5				2.64	
1614.90	1265.0	1215.0			31.0				2.64	
1615.20	4205.0	4125.0			34.0				2.64	
1615.50	5139.0	5059.0			33.0				2.64	
1615.80	2924.0	2844.0			32.5				2.64	

+) NO MEASUREMENT POSSIBLE
+++ PLUG IBL
+++ NO VERTICAL PLUG POSSIBLE
++++ NO HORIZONTAL PLUG POSSIBLE

COMPANY: SHELL DATE: JAN. 1982

WELL: 31/2-6 CORE: 8

FIELD: STATE: NJRWAY

PAGE: 13

DEPTH METER	HORIZONTAL PERMEABILITY		VERTICAL PERMEABILITY		HELIUM POROSITY %	SUMM- ATION POROS. %	PORE- SATURATION		GRAIN DENS. GR/CC	FORMATION DESCRIPTION
	KA	KL	KA	KL			SO	STM.		
1616.08	919.0	879.0			32.2				2.64	
1616.37	2587.0	2507.0			31.3				2.64	
1616.63	5062.0	4982.0			32.0				2.64	
1616.96	5650.0	5570.0			34.3				2.65	
1617.23	2767.0	2607.0			32.7				2.64	
1617.53	5296.0	5216.0	93.4	89.0	31.8				2.64	
1617.76	3502.0	3422.0			32.5				2.65	
1618.07	9387.0	9262.0			34.5				2.65	
1618.39	5286.0	5206.0			32.5				2.65	
1618.65										

+) NO MEASUREMENT POSSIBLE

++) NO PLUG POSSIBLE

+++ NO VERTICAL PLUG POSSIBLE

++++ NO HORIZONTAL PLUG POSSIBLE

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COMPANY: SHELL
 DATE: JAN. 1982
 WELL: 31/2-6
 CORE: 9
 STATE: NORWAY

GECU A.S. LABUKAJRY
 FINAL REPORT

DEPTH METER	HORIZONTAL PERMEABILITY MILLIDARCY		VERTICAL PERMEABILITY MILLIDARCY		HELIUM POROSITY %	SUMM- ATION POROS. %	PORE- SATURATION		GRAIN DENS. GR/CC	FORMATION DESCRIPTION
	KA	KL	KA	KL			SO	STN.		
1618.80										
1618.81										
1619.07	529.0	499.0			31.9				2.67	
1619.35	1248.0	1198.0			31.7				2.65	
1619.78	2089.0	2029.0			34.7				2.65	
1620.15	2032.0	1972.0			33.8				2.65	
1620.40	865.0	825.0			31.5				2.65	
1620.67	593.0	563.0			32.0				2.66	
1621.00	637.0	607.0	1177.0	1127.0	32.7				2.67	
1621.29	1291.0	1241.0			32.8				2.66	
1621.60	9991.0	9866.0			36.5				2.64	
1621.95	86.0	75.0			28.5				2.68	
1622.35	118.0	105.0			28.8				2.69	
1622.60	50.0	43.0			27.0				2.70	
1622.87	31.0	26.0			27.7				2.71	
1623.12	41.0	35.0			25.7				2.69	
1623.45	52.0	44.0			27.7				2.70	
1623.75	80.0	70.0			27.8				2.70	
1624.05	101.0	89.0			32.2				2.68	
1624.37	37.0	31.0			27.3				2.70	
1624.66	154.0	139.0			27.7				2.68	
1624.98	33.0	28.0			25.4				2.69	
1625.30	24.0	20.0			24.5				2.68	
1625.60	60.0	52.0			26.2				2.67	
1625.89	79.0	69.0			26.7				2.70	
1626.19	43.0	36.0			25.7				2.71	
1626.49	23.0	19.0			24.9				2.69	
1626.79	7.1	5.4			24.8				2.64	
1627.07	37.0	31.0			25.5				2.69	
1627.49	16.0	13.0			23.7				2.72	
1627.79	26.0	21.0			25.0				2.72	
1628.10	45.0	38.0			25.7				2.75	
1628.39	24.0	20.0			25.2				2.71	
1628.69	38.0	32.0			28.7				2.73	
1629.00	44.0	37.0			28.6				2.74	
1629.30	56.0	48.0			23.8				2.70	
1629.60	134.0	120.0			30.9				2.67	
1629.90	188.0	168.0	180.0	160.0	30.3				2.67	
1630.20	164.0	148.0			30.7				2.66	
1630.50	345.0	315.0			33.4				2.65	
1630.79	507.0	477.0			34.6				2.65	
1631.09	228.0	208.0			32.6				2.66	
1631.39	1645.0	1595.0			35.0				2.65	
1631.60	188.0	168.0			30.0				2.67	
1631.90	180.0	160.0			30.3				2.67	

++) NO PLUG POSSIBLE
++) NO VERTICAL PLUG POSSIBLE
++) NO HORIZONTAL PLUG POSSIBLE

COMPANY: SHELL DATE: JAN. 1982
 WELL: 31/2-6 CORE: 9
 FIELD: STATE: NJ & NY

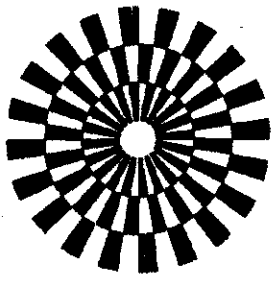
DEPTH METER	HORIZONTAL PERMEABILITY MILLIDARCY KA	VERTICAL PERMEABILITY MILLIDARCY KL	HELIUM POROSITY %	SUMM- ATION POROS. %	PORE- SATURATION SO	GRAIN DENS. GR/CC	FORMATION DESCRIPTION
1632.20	2022.0	1962.0	32.1			2.68	

+) NO MEASUREMENT POSSIBLE
 ++)) NO PLUG POSSIBLE
 +++)) NO VERTICAL PLUG POSSIBLE
 +++++) NO HORIZONTAL PLUG POSSIBLE

COMPANY: SHELL
 WELL: 31/2-6
 LOCATION:

FIELD:
 COUNTY:
 STATE: NORWAY

FILE: 9219
 DATE: JAN. 1982
 ELEV.:



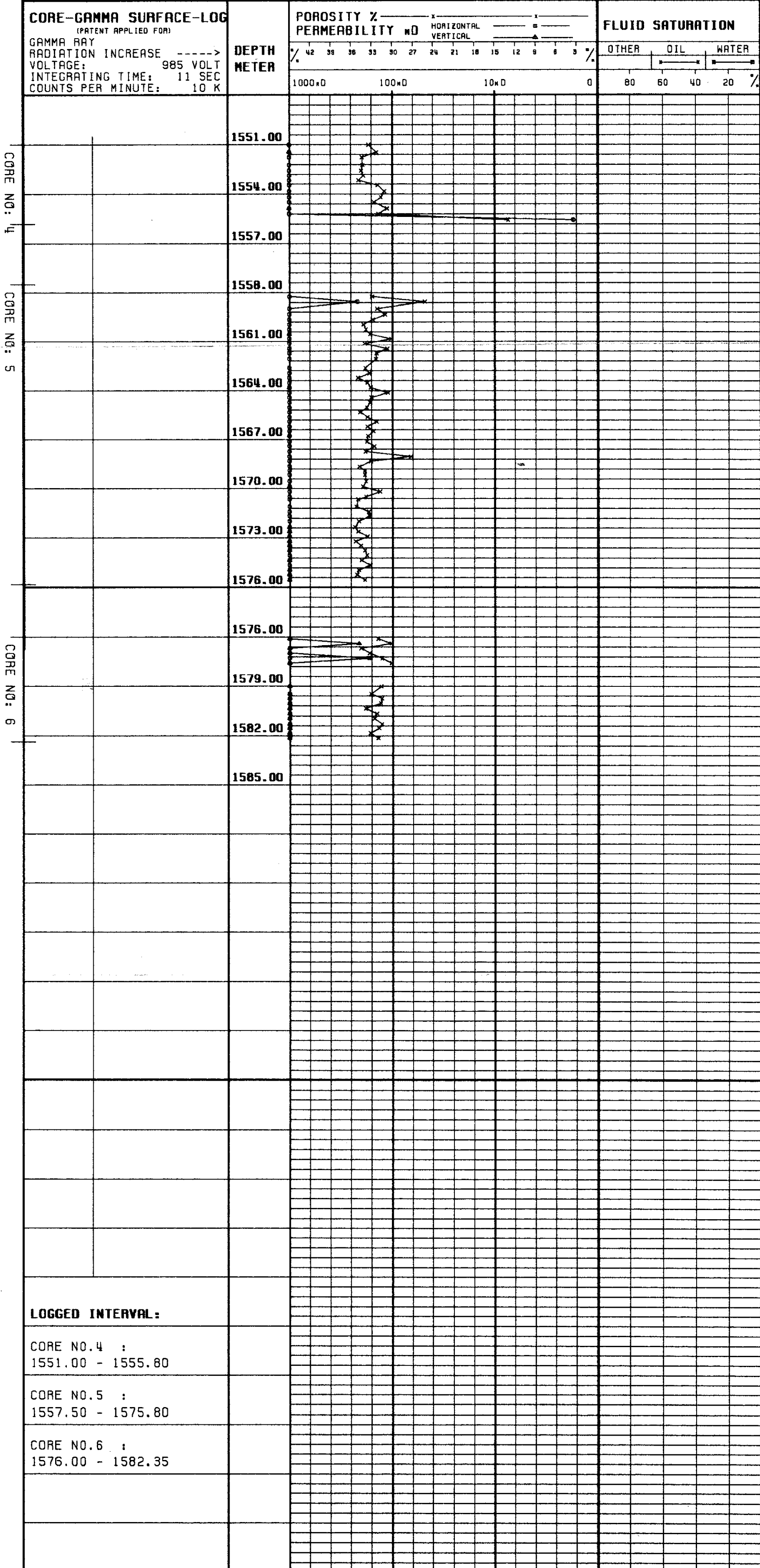
CORE GRAPH

THESE ANALYSES, OPINIONS OR INTERPRETATIONS ARE BASED ON OBSERVATIONS AND MATERIAL SUPPLIED BY THE CLIENT TO WHOM, AND FOR WHISE EXCLUSIVE AND CONFIDENTIAL USE, THIS REPORT IS MADE. THE INTERPRETATIONS OR OPINIONS EXPRESSED REPRESENT THE BEST JUDGMENT OF GECO LABORATORIES AND ITS OFFICERS AND EMPLOYEES.

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 GEOPHYSICAL COMPANY
 OF NORWAY A.S.

VERTICAL SCALE: 1:200

LABORATORY



CORE NO: 4

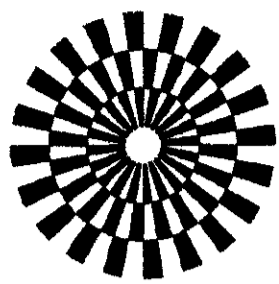
CORE NO: 5

CORE NO: 6

COMPANY: SHELL
 WELL: 31/2-6
 LOCATION:

FIELD:
 COUNTY:
 STATE: NORWAY

FILE: 9219
 DATE: JAN. 1982
 ELEV.:



CORE GRAPH

THESE ANALYSES, OPINIONS OR INTERPRETATIONS ARE BASED ON OBSERVATIONS AND MATERIAL SUPPLIED BY THE CLIENT TO MHO, AND FOR HIS EXCLUSIVE AND CONFIDENTIAL USE. THIS REPORT IS MADE. THE INTERPRETATION OR OPINIONS EXPRESSED REPRESENT THE BEST JUDGEMENT OF GECO LABORATORIES AND ITS OFFICERS AND EMPLOYEES.

GECO
 GEOPHYSICAL COMPANY
 OF NORWAY A.S

VERTICAL SCALE: 1:200

LABORATORY

CORE-GAMMA SURFACE-LOG
 (PATENT APPLIED FOR)
 GAMMA RAY RADIATION INCREASE ----->
 VOLTAGE: 985 VOLT
 INTEGRATING TIME: 11 SEC
 COUNTS PER MINUTE: 10 K

POROSITY % ———— x ———— x
PERMEABILITY mD ———— ———— ————
 HORIZONTAL VERTICAL
 % 42 39 36 33 30 27 24 21 18 15 12 9 6 3 %
 1000mD 100mD 10mD 0

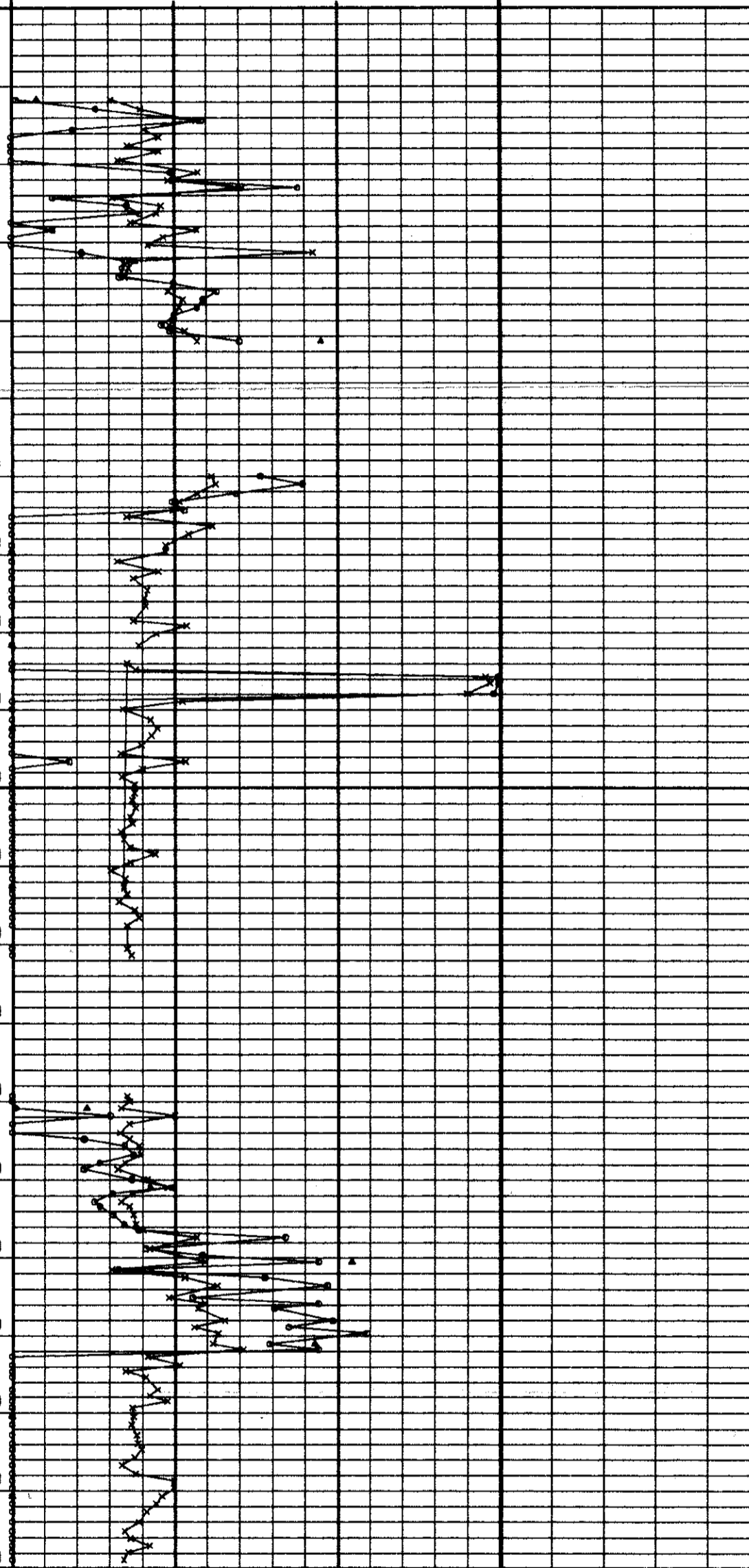
FLUID SATURATION
 OTHER OIL WATER
 80 60 40 20 %

CORE NO: 1

CORE NO: 2

CORE NO: 3

1504.00
 1507.00
 1510.00
 1513.00
 1516.00
 1514.00
 1517.00
 1520.00
 1523.00
 1526.00
 1529.00
 1532.00
 1535.00
 1539.00
 1536.00
 1539.00
 1542.00
 1545.00
 1548.00
 1551.00



LOGGED INTERVAL:

CORE NO.1 :
 1504.40 - 1514.00
 CORE NO.2 :
 1514.00 - 1532.52
 CORE NO.3 :
 1532.50 - 1550.90

COMPANY: SHELL

FIELD:

FILE: 9219

WELL: 31/2-6

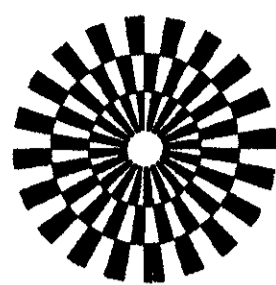
COUNTY:

DATE: JAN. 1982

LOCATION:

STATE: NORWAY

ELEV.:



CORE GRAPH

THESE ANALYSES, OPINIONS OR INTERPRETATIONS ARE BASED ON OBSERVATIONS AND MATERIAL SUPPLIED BY THE CLIENT TO WHOM, AND FOR WHOM EXCLUSIVE AND CONFIDENTIAL USE, THIS REPORT IS MADE. THE INTERPRETATIONS OR OPINIONS EXPRESSED REPRESENT THE BEST JUDGMENT OF GECO LABORATORIES AND ITS OFFICERS AND EMPLOYEES.

GECO
GEOPHYSICAL COMPANY
OF NORWAY A.S

VERTICAL SCALE: 1:200

LABORATORY

CORE-GAMMA SURFACE-LOG
(PATENT APPLIED FOR)
GAMMA RAY
RADIATION INCREASE ----->
VOLTAGE: 985 VOLT
INTEGRATING TIME: 11 SEC
COUNTS PER MINUTE: 10 K

POROSIITY %
PERMEABILITY mD

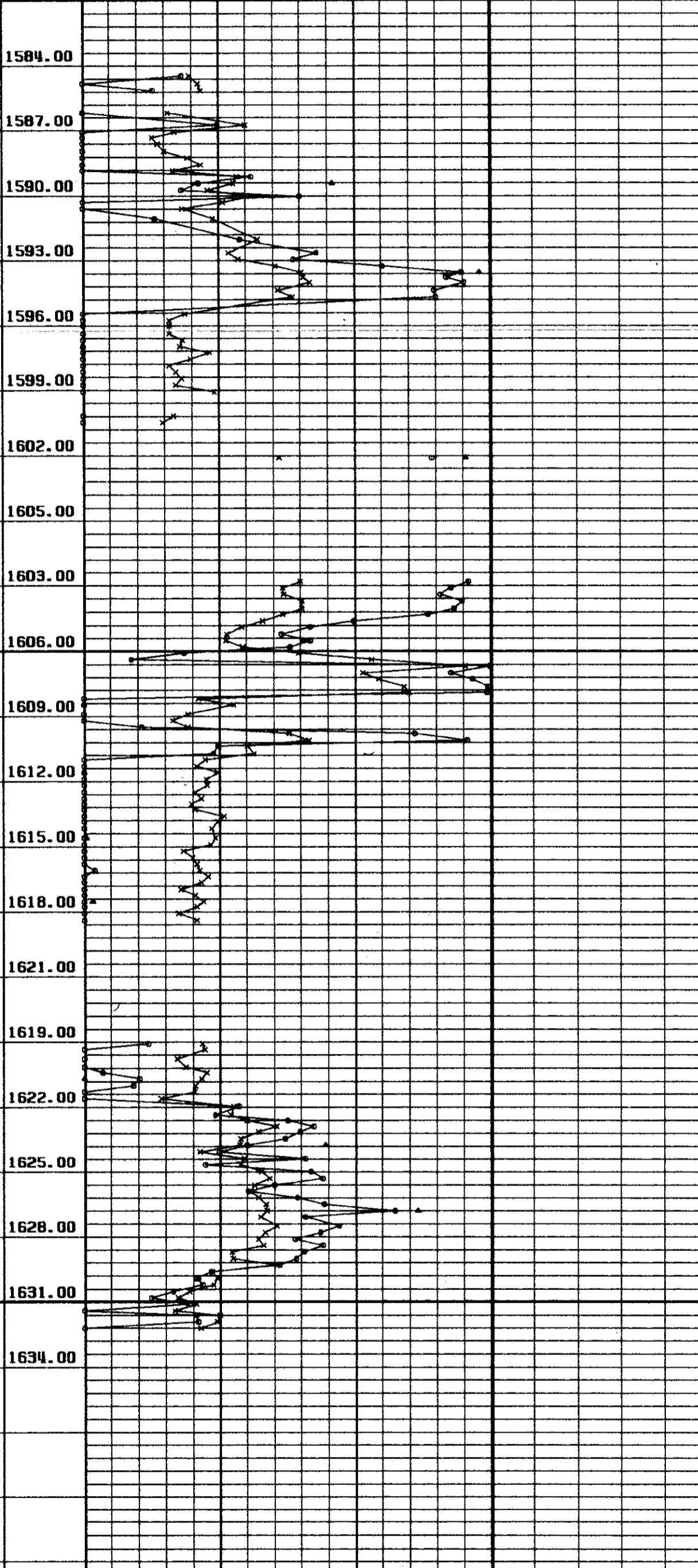
HORIZONTAL: x
VERTICAL: o

1000mD 100mD 10mD 0

FLUID SATURATION

OTHER OIL WATER

80 60 40 20 %



CORE NO: 7	1584.00
	1587.00
	1590.00
	1593.00
	1596.00
	1599.00
	1602.00
	1605.00
CORE NO: 8	1603.00
	1606.00
	1609.00
	1612.00
	1615.00
	1618.00
	1621.00
	1619.00
CORE NO: 9	1622.00
	1625.00
	1628.00
	1631.00
	1634.00

LOGGED INTERVAL:

CORE NO.7 :	1583.90 - 1602.30
CORE NO.8 :	1602.80 - 1618.65
CORE NO.9 :	1618.80 - 1632.20