5.3 Formation Pressure Measurements and Fluid Samples.

Pressure measurement were performed on five separate descents in the well, mostly with a MDT tool equipped with a CQG pressure gauge. However, the RFT tool was used for sampling during run number 3 in the well.

The MDT/RFT wellsite worksheets are presented in Table 5.4 to 5.9. A composite plot of the pressure measurements from the Kristin Field is presented in Figure 5.10. This is based on a preliminary interpretation, and a further interpretation of the pressure combined with PVT data will be presented in a separate petrophysical report

Table 5.4 MDT wellsite worksheet run 3B

WELL: 6406/2-5					SAGA PETROLEUM ASA				PAGE: 1 OF 1		
PRESSURE UNITS: BAR					MDT WELLSITE WORKSHEET				WITNESSED BY: LOG/RABe/MaA		
					RIG: Deep Sea Bergen				DATE: 29.07.97		
					KB (M): 23						
RUN #: 3B	DEPTH MD	DEPTH TVD	IN. HYDROST. PRESSURE		FORMATION PRESSURE		FIN. HYDROST. PRESSURE		TEMP	MOB. INDEX	REMARKS
TEST #	RKB	RKB	EMW	SGP	EMW	SGP	EMW	SGP			
1	4793.0	4792.0	2.07	972.30			2.07	973.00	157.9		Tight, abandon pretest
2	4795.0	4794.0	2.07	972.50			2.07	972.70	160.3		Tight, abandon pretest
3	4798.4	4797.4	2.07	972.90			2.07	972.80	163.0		Tight, 0.5 cc, seemed stable at 913 bar, then drifted
4	4797.5	4796.5	2.07	972.70			2.07	972.70	163.2		Tight, abandon pretest
5	4797.7	4796.7	2.07	973.00			2.07	972.70	163.5		Tight, 0.4 cc, seemed stable at 913 bar, then drifted
6	4797.5	4794.5	2.07	972.50	1.94	914.60	2.07	972.40	164.4		0.4 cc, 28 min so stabilize, superchared
7											
8											
9											
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Table 5.5 MDT wellsite worksheet run 4C

WELL: 6406/2-5					SAGA PETROLEUM ASA					PAGE: 1 OF 1	
PRESSURE UNITS: BAR					MDT WELLSITE WORKSHEET					WITNESSED BY: GSm/MaA	
					RIG: Deep Sea Bergen					DATE: 10.08.97	
					KB (M): 23						
RUN #: 4 C	DEPTH MD	DEPTH TVD	IN. HYDROST. PRESSURE		FORMATION PRESSURE		FIN. HYDROST. PRESSURE		TEMP	MOB. INDEX	REMARKS
TEST #	RKB	RKB	EMW	CQG	EMW	CQG	EMW	CQG			
1	4797.2	4796.2	2.02	952.22	1.95	916.50	2.02	952.05	151.6	0.0	Limited draw-down, 2.1 cc, very tight stop after 1 hr
2	4815.0	4814.0	2.02	955.66					155.4		Tight aborted test
3	4826.0	4825.0	2.02	957.89					155.8		Tight abandon after 45 min (914 bar)
4	4829.0	4828.0	2.02	958.51					157.1		Tight aborted test
5	4843.0	4842.0	2.02	961.36					158.2		Tight abandon after 30 min (913.1 bar)
6	4853.0	4852.0	2.02	963.43					158.5		Tight abandon after 30 min (913.1 bar)
7	4854.5	4853.5	2.02	963.70					159.2		Tight aborted test
8	4863.0	4862.0	2.02	965.45					159.5		Tight aborted test
9	4870.0	4869.0	2.02	966.89					159.8		Tight aborted test
10	4877.5	4876.5	2.02	968.67	1.91	915.50	2.02	968.46	160.1	0.1	Limited draw-down, 2.3 cc
11	4852.8	4851.8	2.02	963.47					160.7		Tight aborted test
12	4847.5	4846.5	2.02	962.42	1.92	914.50	2.02	962.33	160.3	0.1	Limited draw-down, 2.6 cc
13	4829.2	4828.2	2.02	958.66					160.5		Tight aborted test
14	4817.0	4816.0	2.02	956.20					160.3		Tight aborted test
15	4808.0	4807.0	2.02	954.31					160.1		Tight aborted test
16	4797.0	4796.0	2.02	952.10					159.7		Tight aborted test
17	4847.5	4846.5	2.02	962.30					158.2		Tight aborted test
18	4847.0	4846.0	2.02	962.24					158.5		Tight aborted test
19	4877.5	4876.5	2.02	968.44							MDT failed
20	4877.5	4876.5	2.02	968.20					156.0		Tight aborted test
21	4877.0	4876.0	2.02	968.14	1.91	914.74	0.00		156.6		Sample point.
22											
23											
24											
25											

Table 5.6 MDT wellsite worksheet run 5D

WELL: 6406/2-5					SAGA PETROLEUM ASA				PAGE: 1 OF 1		
PRESSURE UNITS: BAR					MDT WELLSITE WORKSHEET				WITNESSED BY: GSm/ØC		
					RIG: Deep Sea Bergen				DATE: 24.08.97		
					KB (M): 23						
RUN #: 5 D	DEPTH MD	DEPTH TVD	IN. HYDROST. PRESSURE		FORMATION PRESSURE		FIN. HYDROST. PRESSURE		TEMP	MOB. INDEX	REMARKS
TEST #	RKB	RKB	EMW	CQG	EMW	CQG	EMW	CQG			
1	4987.5	4986.5	2.05	1002.62	1.89	925.00	2.05	1001.44	170.7	543.0	Normal pre-test, 20 cc
2	5000.2	4999.2	2.05	1007.00	1.89	926.25	2.05	1004.80	171.7	1118.0	Normal pre-test 20 cc
3	5009.6	5008.6	2.05	1008.75	1.88	926.18	2.05	1006.80	173.2	272.0	Normal pre-test 20 cc
4	5019.1	5018.1	2.05	1011.20	1.88	927.00	2.05	1009.20	174.3	111.0	Normal pre-test 20 cc
5	5024.1	5023.1	2.05	1011.39	1.88	928.56	2.05	1009.30	174.3	138.0	Normal pre-test 20 cc
6	5030.5	5029.5	2.05	1012.80	1.88	929.19	2.05	1010.80	175.9	145.0	Normal pre-test 20 cc
7	5009.5	5008.5	2.05	1005.60	1.89	926.94	0.00		178.5	237.0	Sampling point
8	4890.1	4889.1	2.04	980.60	0.00		2.04	980.20	185.3	0.4	Tight abandon point
9	4877.0	4876.0	2.04	978.10	0.00		2.05	978.20	185.4	0.0	Tight abandon point
10	4860.5	4859.5	2.05	975.04	0.00		2.05	975.10	188.1	0.1	Tight abandon point
11	4830.5	4829.5	2.05	969.40	0.00		2.05	969.60	189.3	0.1	Tight abandon point
12	4830.0	4829.0	2.05	969.40	1.93	913.30	2.05	969.50	200.0	0.0	Supercharged
13	4800.5	4799.5	2.05	963.80	0.00		2.05	963.80	209.0	0.4	Tight abandon point
14	4799.5	4798.5	2.05	963.70	0.00		2.05	963.80	212.0		Tight abandon point
15	4798.5	4797.5	2.05	963.50	0.00		0.00			0.8	Tight abandon point
16	4892.0	4891.0	2.04	980.88	1.91	917.19	2.04	981.20		0.1	Limited draw-down, 3.1 cc
17	4871.2	4870.2	2.05	977.10	0.00		2.05	977.10			Lost seal
18	4871.2	4870.2	2.05	977.10	0.00		2.05	977.30			Tight abandon point
19	4862.9	4861.9	2.05	975.50	0.00		2.05	975.60			Lost seal
20	4862.9	4861.9	2.05	975.50	0.00		0.00				Lost seal
21	4828.9	4827.9	2.05	969.10	0.00		0.00				No seal
22											
23											
24											
25											

Table 5.7 MDT wellsite worksheet run 6E

SAGA PETROLEUM ASA — PAGE: 1 OF 1

WELL: 6406/2-5 — MDT WELLSITE WORKSHEET — WITNESSED BY: GSm

PRESSURE UNITS: BAR — RIG: Deep Sea Bergen — DATE: 02.09.97

KB (M): 23

RUN #: 6 E	DEPTH MD	DEPTH TVD	IN. HYDROST. PRESSURE		FORMATION PRESSURE		FIN. HYDROST. PRESSURE		TEMP	MOB. INDEX	REMARKS
TEST #	RKB	RKB	EMW	CQG	EMW	CQG	EMW	CQG			
1	5009.5	5008.5	2.03	998.82	1.89	927.00	2.03	998.73	156.7	1000.0	Normal pretest 20 cc
2	5024.0	5023.0	2.03	1001.76	1.88	928.43	2.03	1001.47	157.3	158.8	Normal pretest 20 cc
3	5175.0	5174.0	2.03	1031.23	1.86	943.85	2.03	1031.33	167.0	200.0	Normal pretest 20 cc
4	5183.5	5182.5	2.03	1033.17	1.86	944.67	2.03	1032.92	171.0	11.4	Normal pretest 20 cc
5	5193.5	5192.5	2.03	1035.03	1.86	945.63	2.03	1034.93	171.2	112.4	Normal pretest 20 cc
6	5196.5	5195.5	2.03	1035.52	1.86	945.93	2.03	1035.46	170.3	346.4	Normal pretest 20 cc
7	5201.6	5200.6	2.03	1036.50	1.86	946.42	2.03	1036.42	171.8	821.6	Normal pretest 20 cc
8	5204.6	5203.6	2.03	1037.00	1.85	946.72	2.03	1036.90	170.8	549.6	Normal pretest 20 cc
9	5215.1	5214.1	2.03	1039.13	0.00				170.8		Tight abandon
10	5218.2	5217.2	2.03	1039.60	0.00				171.3		Tight abandon
11	5196.5	5195.5	2.03	1035.00	1.86	945.92	2.03	1034.75	168.0	795.0	Sampling point
12	4885.1	4884.1	2.03	974.18	1.91	915.60	2.03	974.20	160.5	0.1	Limited draw-down, 2.5 cc
13	4881.2	4880.2	2.03	973.33					159.3		Tight abandon point
14	4882.9	4881.9	2.03	973.70					159.0		Tight abandon point
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											

Table 5.8 MDT wellsite worksheet run 7F

WELL: 6406/2-5					SAGA PETROLEUM ASA					PAGE: 1 OF 2	
PRESSURE UNITS: BAR					MDT WELLSITE WORKSHEET					WITNESSED BY: MaA/BKP	
					RIG: Deepsea Bergen					DATE: 12.09.97	
					KB (M): 23						
RUN #: 7F	DEPTH MD	DEPTH TVD	IN. HYDROST. PRESSURE		FORMATION PRESSURE		FIN. HYDROST. PRESSURE		TEMP	MOB. INDEX	REMARKS
TEST #	RKB	RKB	EMW	CQG	EMW	CQG	EMW	CQG			
1	5001.1	5000.1	2.02	990.08	1.89	925.95	2.02	990.22	161.2	471.8	Limited draw-down, 20 cc
2	5175.0	5174.0	2.02	1025.32			2.02	1025.14	164.3		Unstable - seal fail?
3	5205.3	5204.3	2.02	1031.36			2.02	1031.22	165.1		Tight, abandon
4	5205.2	5204.2	2.02	1030.77	1.85	946.62	2.02	1030.76	166.1	1213.5	Limited draw-down, 20 cc
5	5247.2	5246.2	2.02	1039.08			2.02	1038.96	167.1		Tight, abandon
6	5247.5	5246.5	2.02	1039.11			2.02	1038.98	167.7		Tight, abandon (953.93 after 39min.-supercharged)
7	5299.1	5298.1	2.02	1049.28			2.02	1049.21	168.9		Unstable - seal fail?
8	5329.5	5328.5	2.02	1055.24			2.02	1055.19	169.5		Unstable - seal fail?
9	5351.2	5350.2	2.02	1059.38			2.02	1059.29	170.5		Tight, abandon
10	5352.0	5351.0	2.02	1059.40	1.83	962.86	2.02	1059.30	171.3	3.8	Limited draw-down, 20 cc
11	5359.5	5358.5	2.02	1060.61	1.83	963.61	2.02	1059.43	174.5	354.0	Sampling point. After smpl. 963.62 bar
12	5408.0	5407.0	2.02	1071.10			2.02	1070.63	174.9		Tight, abandon
13	5407.5	5406.5	2.02	1069.81			2.02	1069.46	175.4		Tight, abandon
14	5415.3	5414.3	2.02	1071.00	1.83	970.31	2.02	1070.89	176.3	1.2	Seal failure. Reset.- 6.4cc, OK? (not compl. stable)
15	5421.5	5420.5	2.02	1072.68	1.82	969.96	2.02	1072.30	176.6	76.8	Limited draw-down, 20 cc
16	5382.0	5381.0	2.01	1063.60	1.83	965.89	2.01	1063.67	176.5	146.0	Limited draw-down, 20 cc
17	5359.5	5358.5	2.02	1059.59	1.83	963.60	2.02	1059.65	176.0	484.0	Limited draw-down, 20 cc
18	5354.0	5353.0	2.02	1059.91	1.83	963.05	2.02	1059.60	174.2	1453.0	Limited draw-down, 20 cc
19	5350.7	5349.7	2.02	1058.40			2.02	1058.30	174.0		Tight, abandon
20	5329.7	5328.7	2.02	1054.38	1.84	960.77	2.02	1054.40	173.6	1.2	3.3 cc. Long time to stablize.
21	5299.0	5298.0	2.02	1048.72			2.02	1048.60	173.3		Tight, abandon
22	5243.0	5242.0	2.02	1038.32			2.02	1038.29	172.4		Tight, abandon
23	5247.0	5246.0	2.02	1039.10			2.02	1039.20	171.5		Seal failure. Abandon
24	5196.5	5195.5	2.02	1029.60			2.02	1029.58	170.4		Tight, abandon
25	5196.1	5195.1	2.02	1029.47	1.86	945.72	2.02	1029.54	169.9	1010.0	Limited draw-down, 20 cc

Comments: Both sample chambers sealed off and sent to town for analysis. Pump out module was used to pump 7 liter prior to opening sample chambers

Table 5.9 MDT wellsite worksheet run 7F

					SAGA PETROLEUM a.s.					PAGE: 2 OF 2	
WELL: 6406/2-5					FMT WELLSITE WORKSHEET					WITNESSED BY: MaA/BKP	
PRESSURE UNITS: BAR					RIG: Deepsea Bergen					DATE: 12.9.97	
					KB (M): 23						
RUN #: 7F	DEPTH MD	DEPTH TVD	IN. HYDROST. PRESSURE		FORMATION PRESSURE		FIN. HYDROST. PRESSURE		TEMP	MOB. INDEX	REMARKS
TEST #	RKB	RKB	EMW	HP	EMW	HP	EMW	HP			
26	5183.4	5182.4	2.02	1027.00	1.86	944.49	2.02	1027.04	169.6	80.6	Limited draw-down, 20 cc
27	5175.1	5174.1	2.02	1025.38	1.86	943.75	2.02	1025.46	169.4	2.8	Limited draw-down, 20 cc
28	5024.0	5023.0	2.02	995.44	1.88	928.262			166.9	75.8	Limited draw-down, 20 cc
28b	5024.0	5023.0			1.88	928.276	2.02	995.43	166.1		After pumping 1326 cc (3 strokes)
29	5001.1	5000.1	2.02	990.85	1.89	926.009			165.9		Limited draw-down, 20 cc
29b	5001.1	5000.1			1.89	926.001	2.02	990.90	165.7	870	Set again at same depth. Pump 1326cc

6.2 Mud Data

6.2.1 Mud Properties, Daily Report

Table 6.2.1 lists the daily reported mud properties (5 pages)

6.2.2 Mud Materials Used

The mud material consumption is shown in Table 6.2.2 (1 page)

Date	Hole size	Hole depth	Mud weight	PV	YP	Gel strength	pH	Alkalinity Pf /Mf	Ca++ mg/l	Cl- mg/l	Sand %	Solids %	Mudtype
970530						/		/					WATER BASED
970531						/		/					WATER BASED
970601						/		/					WATER BASED
970602						/		/					WATER BASED
970603	9 7/8"	612.0	1.20	17.0	14.0	11/34		/					WATER BASED
970604	9 7/8"	900.0	1.20	26.0	24.0	22/43	8.3	/					WATER BASED
970605	9 7/8"	900.0	1.20	26.0	24.0	22/43	8.3	/					WATER BASED
970606	9 7/8"	900.0	1.20	18.0	24.0	22/40	8.3	/					WATER BASED
970607	24"	900.0	1.20	18.0	24.0	22/40	8.3	/					WATER BASED
970608	24"	900.0	1.20	18.0	24.0	22/40	8.3	/					WATER BASED
970609	24"	1407.0	1.30	23.0	19.0	4/10	8.5	/					WATER BASED
970610	24"	1407.0	1.30	23.0	19.0	4/10	8.5	/					WATER BASED
970611	24"	1407.0	1.30	23.0	19.0	4/10	8.5	/					WATER BASED
970612	17 1/2"	1407.0	1.30	23.0	19.0	4/10	8.5	/					WATER BASED
970613	17 1/2"	1653.0	1.31	17.0	20.0	6/9	7.3	2.0/2.2	600	80000		16.0	KCl MUD
970614	17 1/2"	2235.0	1.65	30.0	31.0	7/16	7.8	/	520	85000		26.0	KCl MUD
970615	17 1/2"	2475.0	1.67	31.0	29.0	8/20	8.0	/	600	85000		26.5	KCl MUD
970616	17 1/2"	2475.0	1.68	31.0	29.0	8/23	8.0	/	600	84000		27.0	KCl MUD
970617	17 1/2"	2475.0	1.68	31.0	****	8/23	8.0	/1.2	600	87000	.8	27.0	KCl MUD
970618	17 1/2"		1.68	32.0	30.0	8/23	8.2	/1.2	600	87000	.8	27.0	KCl MUD
970619	12 1/4"		1.68	37.0	36.0	12/35	11.0	.3/1.3	1200	87000	.8	27.0	KCl MUD
970620	12 1/4"	3112.0	1.67	50.0	23.0	10/19		/		82914	.5	25.5	OIL BASED
970621	12 1/4"	3574.0	1.75	55.0	25.0	12/19		/		105060	.5	28.0	OIL BASED
970622	12 1/4"	3863.0	1.76	52.0	22.0	11/18		/		103200	.5	28.5	OIL BASED
970623	12 1/4"	4168.0	1.82	49.0	18.0	10/17		/		108100	.5	29.5	OIL BASED
970624	12 1/4"	4199.0	1.82	49.0	18.0	10/17		/		108320	.5	30.5	OIL BASED
970625	12 1/4"	4259.0	1.82	50.0	20.0	10/16		/		110910	.5	31.0	OIL BASED

Date	Hole size	Hole depth	Mud weight	PV	YP	Gel strength	pH	Alkalinity Pf /Mf	Ca++ mg/l	Cl- mg/l	Sand %	Solids %	Mudtype
970626	12 1/4"	4316.0	1.82	52.0	23.0	12/19		/		106230	.5	30.5	OIL BASED
970627	12 1/4"	4346.0	1.82	50.0	24.0	10/16		/		108930	.5	30.5	OIL BASED
970628	12 1/4"	4346.0	1.83	49.0	22.0	10/17		/		111650	.8	31.0	OIL BASED
970629	12 1/4"	4399.0	1.82	47.0	18.0	10/14		/		117580	.8	31.0	OIL BASED
970630	12 1/4"	4440.0	1.82	46.0	17.0	10/14		/		112470	.8	31.0	OIL BASED
970701	12 1/4"	4440.0	1.83	48.0	25.0	10/15		/		112470	.8	31.0	OIL BASED
970702	12 1/4"	4440.0	1.82	47.0	27.0	10/15		/		112470	.8	31.0	OIL BASED
970703	12 1/4"	4440.0	1.82	47.0	27.0	10/15		/		112470	.8	31.0	OIL BASED
970704	12 1/4"	4509.0	1.83	51.0	21.0	13/25		/		112470	.8	31.0	OIL BASED
970705	12 1/4"	4533.0	1.83	50.0	20.0	12/22		/		112470	.8	31.2	OIL BASED
970706	12 1/4"	4533.0	1.83	51.0	20.0	11/21		/		112470	.8	31.0	OIL BASED
970707	12 1/4"	4533.0	1.83	51.0	19.0	11/21		/		112470	.8	31.0	OIL BASED
970708	12 1/4"	4533.0	1.83	50.0	20.0	10/21		/		112470	.8	31.0	OIL BASED
970709	12 1/4"	4533.0	1.83	52.0	20.0	11/20		/		113360		31.5	OIL BASED
970710	12 1/4"	4533.0	1.83	51.0	18.0	11/20		/		10734		31.5	OIL BASED
970711	8 1/2"	4533.0	1.83	50.0	18.0	10/19		/		10734		31.5	OIL BASED
970712	8 1/2"	4533.0	1.83	50.0	18.0	10/19		/		10734		31.5	OIL BASED
970713	8 1/2"	4533.0	1.83	53.0	15.0	9/18		/		10734		31.5	OIL BASED
970714	8 1/2"	4538.0	2.00	59.0	17.0	8/15		/		9693	.3	37.0	OIL BASED
970715	8 1/2"	4538.0	2.00	62.0	18.0	10/18		/		11023	.3	35.0	OIL BASED
970716	8 1/2"	4538.0	2.00	74.0	22.0	10/16		/		113534	.3	36.5	OIL BASED
970717	8 1/2"	4538.0	2.06	89.0	23.0	10/15		/		120125	.3	38.0	OIL BASED
970718	8 1/2"	4578.0	2.06	75.0	19.0	10/16		/		96930	.3	38.0	OIL BASED
970719	8 1/2"	4631.0	2.06	73.0	22.0	8/15		/		87560	.3	38.0	OIL BASED
970720	8 1/2"	4687.0	2.07	59.0	14.0	7/13		/		85190	.3	37.5	OIL BASED
970721	8 1/2"	4733.0	2.07	59.0	11.0	7/10		/		85196	.2	37.5	OIL BASED
970722	8 1/2"	4763.0	2.08	59.0	17.0	8/13		/		79264	.2	36.5	OIL BASED

Well: 6406/2-5

Date	Hole size	Hole depth	Mud weight	PV	YP	Gel strength	pH	Alkalinity Pf /Mf	Ca++ mg/l	Cl- mg/l	Sand %	Solids %	Mudtype
970723	8 1/2"	4763.0	2.08	62.0	18.0	9/16		/		108572	.2	37.5	OIL BASED
970724	8 1/2"	4775.0	2.06	59.0	16.0	9/15		/		100163	.2	37.5	OIL BASED
970725	8 1/2"	4795.0	2.06	57.0	16.0	7/17		/		106610	.2	37.5	OIL BASED
970726	8 1/2"	4795.0	2.06	57.0	16.0	7/17		/		106610	.2	37.5	OIL BASED
970727	8 1/2"	4795.0	2.06	58.0	17.0	8/15		/		96930	.2	37.5	OIL BASED
970728	8 1/2"	4795.0	2.07	57.0	18.0	7/16		/		100163	.2	37.5	OIL BASED
970729	8 1/2"	4795.5	2.07	59.0	16.0	7/15		/		96930	.2	37.5	OIL BASED
970730	8 1/2"	4795.5	2.07	58.0	18.0	7/16		/		93758	.8	37.5	OIL BASED
970731	8 1/2"	4795.5	2.06	62.0	17.0	7/15		/		93758	.8	37.5	OIL BASED
970801	8 1/2"	4795.5	2.06	62.0	20.0	9/15		/		90237	1.0	37.5	OIL BASED
970802	8 1/2"	4795.5	2.04	60.0	18.0	9/14		/		96930	1.0	37.5	OIL BASED
970803	8 1/2"	4861.5	2.04	56.0	18.0	9/14		/		90237	1.0	37.5	OIL BASED
970804	8 1/2"	4889.5	2.04	56.0	19.0	9/14		/		90237	1.0	36.5	OIL BASED
970805	8 1/2"	4889.5	2.04	57.0	19.0	9/14		/		90237	1.0	36.5	OIL BASED
970806	8 1/2"	4917.5	2.04	61.0	19.0	9/14		/		90237	1.0	36.5	OIL BASED
970807	8 1/2"	4917.5	2.04	62.0	18.0	9/14		/		100376	1.0	36.5	OIL BASED
970808	8 1/2"	4944.0	2.04	53.0	16.0	7/12		/		104671	1.0	36.0	OIL BASED
970809	8 1/2"	4945.0	2.04	54.0	16.0	7/12		/		104671	1.0	36.0	OIL BASED
970810	8 1/2"	4945.0	2.04	55.0	15.0	7/12		/		104671	1.0	36.0	OIL BASED
970811	8 1/2"	4945.0	2.04	55.0	15.0	7/12		/		104671	1.0	36.0	OIL BASED
970812	8 1/2"	4945.0	2.04	56.0	14.0	7/12		/		104671	1.0	37.0	OIL BASED
970813	8 1/2"	4973.0	2.04	5.0	17.0	7/12		/		104671	1.0	37.0	OIL BASED
970814	8 1/2"	4973.0	2.04	56.0	17.0	7/12		/		104671	1.0	37.0	OIL BASED
970815	8 1/2"	4992.0	2.04	58.0	17.0	7/12		/		104671	1.0	37.0	OIL BASED
970816	8 1/2"	5019.0	2.04	61.0	16.0	7/12		/		104671	2.2	37.0	OIL BASED
970817	8 1/2"	5019.0	2.04	59.0	15.0	7/12		/		104671	2.2	37.0	OIL BASED
970818	8 1/2"	5973.0	2.04	58.0	16.0	7/12		/		104671	3.2	37.0	OIL BASED

Well: 6406/2-5

Date	Hole size	Hole depth	Mud weight	PV	YP	Gel strength	pH	Alkalinity Pf /Mf	Ca++ mg/l	Cl- mg/l	Sand %	Solids %	Mudtype
970819	8 1/2"	5080.0	2.04	58.0	16.0	7/12		/		96930	3.4	37.0	OIL BASED
970821	8 1/2"	5105.0	2.04	62.0	15.0	7/12		/		96930	2.0	37.0	OIL BASED
970822	8 1/2"	5115.5	2.04	63.0	17.0	7/12		/		96930	2.0	37.0	OIL BASED
970823	8 1/2"	5115.5	2.04	64.0	15.0	7/12		/		96930	2.0	37.0	OIL BASED
970824	8 1/2"	5115.5	2.04	64.0	17.0	7/12		/		96930	2.0	37.0	OIL BASED
970825	8 1/2"	5128.5	2.02	56.0	15.0	7/11		/		101000	1.5	37.0	OIL BASED
970826	8 1/2"	5129.0	2.02	58.0	13.0	6/11		/		101000	1.5	37.0	OIL BASED
970827	8 1/2"	5130.0	2.02	58.0	15.0	6/10		/		101000	1.5	37.0	OIL BASED
970828	8 1/2"	5130.0	2.03	58.0	15.0	6/10		/		101002	1.5	37.0	OIL BASED
970829	8 1/2"	5166.0	2.02	62.0	16.0	7/11		/		105400	1.5	37.0	OIL BASED
970830	8 1/2"	5166.0	2.02	60.0	14.0	7/11		/		105400	1.5	37.0	OIL BASED
970831	8 1/2"	5221.0	2.02	65.0	17.0	8/15		/		101170	1.8	37.0	OIL BASED
970901	8 1/2"	5229.0	2.02	65.0	17.0	7/14		/		101170	1.7	37.0	OIL BASED
970902	8 1/2"	5229.0	2.02	65.0	17.0	7/14		/		101170	1.7	37.0	OIL BASED
970903	8 1/2"	5229.0	2.02	58.0	18.0	7/14		/		11800	1.8	37.0	OIL BASED
970904	8 1/2"	5271.0	2.02	64.0	19.0	7/14		/		105400	2.0	37.5	OIL BASED
970905	8 1/2"	5314.0	2.02	58.0	16.0	7/14		/		105400	1.8	37.0	OIL BASED
970906	8 1/2"	5343.0	2.03	60.0	15.0	7/14		/		110200	1.7	37.5	OIL BASED
970907	8 1/2"	5348.0	2.04	60.0	17.0	8/14		/		110200	1.7	37.5	OIL BASED
970908	8 1/2"	5393.0	2.03	60.0	16.0	7/14		/		110200	1.5	38.0	OIL BASED
970909	8 1/2"	5393.0	2.03	60.0	16.0	7/14		/		110200	1.5	38.0	OIL BASED
970910	8 1/2"	5433.0	2.02	61.0	17.0	8/14		/		110200	1.1	37.0	OIL BASED
970911	8 1/2"	5439.0	2.02	61.0	17.0	7/13		/		115575	1.0	37.0	OIL BASED
970912	8 1/2"	5439.0	2.02	61.0	17.0	7/13		/		115575	1.0	37.0	OIL BASED
970913	8 1/2"	5439.0	2.02	61.0	17.0	7/13		/		115575	1.0	37.0	OIL BASED
970914	8 1/2"	5439.0	2.02	61.0	17.0	7/13		/		115575	1.0	37.0	OIL BASED
970915	8 1/2"	5439.0	2.02	64.0	21.0	8/14		/		115575	1.0	37.0	OIL BASED

Date	Hole size	Hole depth	Mud weight	PV	YP	Gel strength	pH	Alkalinity Pf /Mf	Ca++ mg/l	Cl- mg/l	Sand %	Solids %	Mudtype
970916	8 1/2"	5439.0	2.03	62.0	19.0	8/14		/		105389	1.0	38.0	OIL BASED
970917	8 1/2"	5439.0	2.03	70.0	18.0	9/15		/		105389	1.0	38.5	OIL BASED
970918	P&A	5439.0	2.04	69.0	22.0	9/15		/		96930	1.0	37.0	OIL BASED
970919	P&A	5439.0	2.04	70.0	21.0	9/15		/		96930	1.0	38.0	OIL BASED
970920	P&A	5439.0	2.04	****	40.0	12/17		/		73364	1.0	37.0	OIL BASED
970921	P&A	5439.0	1.86	50.0	14.0	8/12		/		78123	1.0	30.0	OIL BASED
970922	P&A	5439.0	1.90	52.0	15.0	8/12		/		73364	1.0	31.0	OIL BASED
970923	P&A	5439.0	1.90	51.0	17.0	8/12		/		75994	1.0	32.0	OIL BASED
970924	P&A	5439.0	1.90	52.0	16.0	8/12		/		75994	1.0	32.0	OIL BASED
970925	P&A	5439.0	1.90	53.0	16.0	8/12		/		73364	1.0	32.0	OIL BASED
970926	P&A	5439.0	1.90	57.0	17.0	9/14		/		70663	1.0	32.0	OIL BASED
970927	P&A		1.68	33.0	26.0	6/15	8.8	.1/.1	600	82000		25.0	WATER BASED
970928	P&A		1.68	32.0	17.0	5/6	7.3	/1.6	360	85000		25.0	WATER BASED
970929	P&A		1.64	34.0	18.0	6/8	9.2	.1/1.1	440	86000	.3	24.0	WATER BASED

Mud Materials Used **6.2.2** **WELL 6406/2-5**

Material	Unit	36" + 9 7/8" pilot hole	24"	17 1/2"	12 1/4"	8 1/2"	P&A	Total
Anco 208	LT			25000			12700	37700
Anco 2000 Rec.	M3			220				220
Anco 2000 Trans	M3			191			346	537
Borewell	KG			125				125
Anco Vert P	KG				15200	20900	950	37050
Anco Vert S	KG				9500	10450	100	20050
Anco Vert Vis	KG				5625	2000	50	7675
Anco Vert F	KG				1000	9000		10000
Anco Vert M	KG				570	380		950
$CaCl_2$	KG				7500	1525		9025
Anco Vert mud	M3				280	386	409	1075
Anco Vert Transfer	M3				386	598	436	1420
Anco Tec B	LT					11897		11897
Barite	MT	249	81	437	652	642	412	2473
Base oil HDF 200	M3				209			209
Base oil EDC 95/11	M3				50	190	14	254
Bentonite	MT	72	60					132
Citric Acid	KG			1375			1000	2375
KCL Brine	M3			412			242.3	654
KCL Powder	KG			18000				18000
Lime	KG				14525	14975		29500
Bicarb of Soda	KG			1300			1075	2375
Soda Ash	KG	475	475	300			50	1300
CMC-EHV	KG	450	875			50		1375
Mica F	KG					250		250
Nutplug F	KG					225		225
Nutplug C	KG					125		125
Flowzan	KG			1850			900	2750
Lampac LV	KG	250	650	6275			3625	10800

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Memorandum Number: RL/99/673

Title:

GEOCHEMICAL ANALYSIS OF WELL 6406/2-5

Prepared For:

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Author's signature ..... **Date** 11/3/99
Mr M C Wadsworth

General Manager ..... **Date** 11/3/99
Mr J McEwan

CONTENTS

SUMMARY & INTRODUCTION

Client name	**Saga Petroleum A.S.A.**
Well names	**6406/2-5**
Location	**Haltenbanken**
Dates of receipt	**10/7/98**
Dates of analysis	**20/7/98 - 22/1/99**
Sample types	**Cuttings**
RL job no	**98024**
Client ref. nos.	**K-FK-94-052** **9 000 000 545**

Wet ditch cuttings were received in geochemical cans from well 6406/2-5. 160 samples were submitted for analysis in the interval 1410 - 4530m.

The objective of this report is to present analytical data produced from the samples documented above. All selection of analysis was carried out by Saga's personnel. The isotope analysis presented in this report was performed, at Saga's request, by IFE. Also at Saga's request, thirty two samples were forwarded to IFE for Vitrinite reflectance analysis. The results were reported directly to Saga by IFE and do not appear in this report, though the samples are listed in the analytical program (pages 4 to 12) of this report.

The tables on pages 4 to 12 of this report fully document the analysis carried out on each sample.

EXPERIMENTAL PROCEDURES

Unless otherwise stated, analysis was carried out following 'the Norwegian Industry Guide to Organic Geochemical Analysis, November 1992'. A detailed table documenting the methodologies adopted can be found overleaf.

EXPERIMENTAL PROCEDURES (Table 1)

ANALYSIS	INSTRUMENT	METHOD	TEMPERATURE PROGRAM	COLUMNS
Headspace gas	Perkin Elmer Sigma 3	NPD method	isothermal 110C	1/8" SS, packed
Occluded gas	Perkin Elmer Sigma 3	NPD method	isothermal 110C	1/8" SS, packed
TOC	Leco CS 125	OLS 1 *		
Rock Eval Pyrolysis	Rock Eval II	OLS 5 *	Cycle 1	
Qualitative Extraction	Soxhtec Tecator 1043	NPD method	Boil 1 hr, rinse 2hrs (DCM:MeOH, 7:1)	
Hydrocarbon separation	Kontron HPLC	NPD method		Lobar Lichroprep Si60
Alkane GC	HP5890a (on column)	NPD method	50C 3min, 5C/min to 300C, 300C 20 min.	CP SIL-5 (30m)
Aromatic GC	AI 92	NPD method	80C 1min, 1C/min to 103C, 4C/min to 240C, 10C/min to 300C 20 min	CP SIL-8 (30m)
Alkane GC/MS	Finnegan 4000	NPD method	50C 1min, 15C/min to 210C, 2C/min to 300C 36 min.	DB-5MS (60m)
Vitrinite Reflectance	sub contracted and run at Saga's request by IFE			
Isotope analysis	sub contracted and run at Saga's request by IFE			

*** - TOC and Rock Eval methods are comparable with NPD method. However we do not have Black Ven Marl. Consequently, the Rock Eval was calibrated with a standard related to Delsi IFP standard. In house check standards are run at greater frequency than prescribed in the NPD guidelines. Furthermore, both these methods are UKAS accredited. Robertson Laboratories has been UKAS accredited for the majority of it's geochemical services since 1991. UKAS, an organisation established by the UK government, has reciprocal agreements with Norske Veritas. UKAS accreditation is specifically designed for laboratory testing and is broadly based on ISO 9001. Robertson Laboratories were audited by Saga (Audit no. SAGA-93-110) and it's geochemical methods were found to be satisfactory.**

Analytical Program (Table 2)

Well Name	Sample Name	Upper Depth	Lower Depth	Sample Type	Headspace gas analysis	Occluded gas analysis	Gas Isotope analysis	Lithology descriptions	TOC	Clean Up Extraction	RockEvalPyrolysis	VR sent IFE	Pyrolysis GC	Solvent Extraction	Saturate GC	Aromatic GC	Saturate GCMS
6406/2-5	98024- 161	1410.0	1410.0	Cuttings				X	X	X							
6406/2-5	98024-161X	1410.0	1410.0	S.E.Ctgs							X						
6406/2-5	98024-1	1420.0	1420.0	Cuttings	X	X		X	X			X					
6406/2-5	98024- 162	1430.0	1430.0	Cuttings				X	X								
6406/2-5	98024-2	1440.0	1440.0	Cuttings	X	X		X	X	X							
6406/2-5	98024-2X	1440.0	1440.0	S.E.Ctgs							X						
6406/2-5	98024- 163	1450.0	1450.0	Cuttings				X	X								
6406/2-5	98024-3	1460.0	1460.0	Cuttings	X	X		X	X								
6406/2-5	98024- 164	1470.0	1470.0	Cuttings				X	X	X							
6406/2-5	98024-164X	1470.0	1470.0	S.E.Ctgs							X						
6406/2-5	98024-4	1480.0	1480.0	Cuttings	X	X		X	X								
6406/2-5	98024- 165	1500.0	1500.0	Cuttings				X	X								
6406/2-5	98024-5	1510.0	1510.0	Cuttings	X	X		X	X	X							
6406/2-5	98024-5X	1510.0	1510.0	S.E.Ctgs							X						
6406/2-5	98024- 166	1520.0	1520.0	Cuttings				X	X			X					
6406/2-5	98024-6	1530.0	1530.0	Cuttings	X	X		X	X								
6406/2-5	98024- 167	1540.0	1540.0	Cuttings				X	X	X							
6406/2-5	98024-167X	1540.0	1540.0	S.E.Ctgs							X						
6406/2-5	98024-7	1550.0	1550.0	Cuttings	X	X		X	X								
6406/2-5	98024- 168	1560.0	1560.0	Cuttings				X	X								
6406/2-5	98024-8	1570.0	1570.0	Cuttings	X	X		X	X	X							
6406/2-5	98024-8X	1570.0	1570.0	S.E.Ctgs							X						
6406/2-5	98024- 169	1580.0	1580.0	Cuttings				X	X								
6406/2-5	98024-9	1590.0	1590.0	Cuttings	X	X		X	X								
6406/2-5	98024- 170	1600.0	1600.0	Cuttings				X	X	X							
6406/2-5	98024-170X	1600.0	1600.0	S.E.Ctgs							X						
6406/2-5	98024-10	1610.0	1610.0	Cuttings	X	X	X	X	X								
6406/2-5	98024- 171	1620.0	1620.0	Cuttings				X	X			X					
6406/2-5	98024-11	1630.0	1630.0	Cuttings	X	X		X	X								
6406/2-5	98024- 172	1640.0	1640.0	Cuttings				X	X	X							
6406/2-5	98024-172X	1640.0	1640.0	S.E.Ctgs							X						
6406/2-5	98024-12	1650.0	1650.0	Cuttings	X	X		X	X								
6406/2-5	98024- 173	1660.0	1660.0	Cuttings				X	X								
6406/2-5	98024-13	1670.0	1670.0	Cuttings	X	X		X	X	X							
6406/2-5	98024-13X	1670.0	1670.0	S.E.Ctgs							X						
6406/2-5	98024- 174	1680.0	1680.0	Cuttings				X	X								
6406/2-5	98024-14	1690.0	1690.0	Cuttings	X	X		X	X								
6406/2-5	98024- 175	1700.0	1700.0	Cuttings				X	X	X							
6406/2-5	98024-175X	1700.0	1700.0	S.E.Ctgs							X						
6406/2-5	98024-15	1710.0	1710.0	Cuttings	X	X		X	X								
6406/2-5	98024- 176	1720.0	1720.0	Cuttings				X	X			X					
6406/2-5	98024-16	1730.0	1730.0	Cuttings	X	X		X	X								
6406/2-5	98024- 177	1740.0	1740.0	Cuttings				X	X	X							
6406/2-5	98024-177X	1740.0	1740.0	S.E.Ctgs							X						
6406/2-5	98024-17	1760.0	1760.0	Cuttings	X	X		X	X								
6406/2-5	98024- 178	1770.0	1770.0	Cuttings				X	X								
6406/2-5	98024-18	1780.0	1780.0	Cuttings	X	X		X	X	X							
6406/2-5	98024-18X	1780.0	1780.0	S.E.Ctgs							X						
6406/2-5	98024- 179	1790.0	1790.0	Cuttings				X	X								
6406/2-5	98024-19	1800.0	1800.0	Cuttings	X	X		X	X								

Analytical Program (Table 2)

Well Name	Sample Name	Upper Depth	Lower Depth	Sample Type	Headspace gas analysis	Occluded gas analysis	Gas Isotope analysis	Lithology descriptions	TOC	Clean Up Extraction	RockEvalPyrolysis	VR sent IFE	Pyrolysis GC	Solvent Extraction	Saturate GC	Aromatic GC	Saturate GCMS
6406/2-5	98024- 180	1820.0	1820.0	Cuttings				X	X			X					
6406/2-5	98024-20	1830.0	1830.0	Cuttings	X	X		X	X	X							
6406/2-5	98024-20X	1830.0	1830.0	S.E.Ctgs							X						
6406/2-5	98024- 181	1840.0	1840.0	Cuttings				X	X								
6406/2-5	98024-21	1850.0	1850.0	Cuttings	X	X		X	X								
6406/2-5	98024- 182	1860.0	1860.0	Cuttings				X	X	X							
6406/2-5	98024-182X	1860.0	1860.0	S.E.Ctgs							X						
6406/2-5	98024-22	1870.0	1870.0	Cuttings	X	X		X	X								
6406/2-5	98024- 183	1880.0	1880.0	Cuttings				X	X								
6406/2-5	98024-23	1890.0	1890.0	Cuttings	X	X		X	X								
6406/2-5	98024- 184	1900.0	1900.0	Cuttings				X	X	X							
6406/2-5	98024-184X	1900.0	1900.0	S.E.Ctgs							X						
6406/2-5	98024-24	1910.0	1910.0	Cuttings	X	X		X	X								
6406/2-5	98024- 185	1920.0	1920.0	Cuttings				X	X			X					
6406/2-5	98024-25	1930.0	1930.0	Cuttings	X	X		X	X	X							
6406/2-5	98024-25X	1930.0	1930.0	S.E.Ctgs							X						
6406/2-5	98024- 186	1940.0	1940.0	Cuttings				X	X								
6406/2-5	98024-26	1950.0	1950.0	Cuttings	X	X		X	X								
6406/2-5	98024- 187	1960.0	1960.0	Cuttings				X	X	X							
6406/2-5	98024-187X	1960.0	1960.0	S.E.Ctgs							X						
6406/2-5	98024-27	1970.0	1970.0	Cuttings	X	X		X	X	X							
6406/2-5	98024-27X	1970.0	1970.0	S.E.Ctgs							X						
6406/2-5	98024- 188	1980.0	1980.0	Cuttings				X	X	X							
6406/2-5	98024-188X	1980.0	1980.0	S.E.Ctgs							X						
6406/2-5	98024-28	1990.0	1990.0	Cuttings	X	X		X	X	X							
6406/2-5	98024-28X	1990.0	1990.0	S.E.Ctgs							X						
6406/2-5	98024- 189	2000.0	2000.0	Cuttings				X	X	X							
6406/2-5	98024-189X	2000.0	2000.0	S.E.Ctgs							X						
6406/2-5	98024-29	2010.0	2010.0	Cuttings	X	X	X	X	X	X							
6406/2-5	98024-29X	2010.0	2010.0	S.E.Ctgs							X						
6406/2-5	98024- 190	2020.0	2020.0	Cuttings				X	X			X					
6406/2-5	98024-30	2030.0	2030.0	Cuttings	X	X		X	X	X							
6406/2-5	98024-30X	2030.0	2030.0	S.E.Ctgs							X						
6406/2-5	98024- 191	2040.0	2040.0	Cuttings				X	X								
6406/2-5	98024-31	2050.0	2050.0	Cuttings	X	X		X	X								
6406/2-5	98024- 192	2060.0	2060.0	Cuttings				X	X	X							
6406/2-5	98024-192X	2060.0	2060.0	S.E.Ctgs							X						
6406/2-5	98024-32	2070.0	2070.0	Cuttings	X	X		X	X								
6406/2-5	98024- 193	2080.0	2080.0	Cuttings				X	X	X							
6406/2-5	98024-193X	2080.0	2080.0	S.E.Ctgs							X						
6406/2-5	98024-33	2090.0	2090.0	Cuttings	X	X		X	X								
6406/2-5	98024- 194	2100.0	2100.0	Cuttings				X	X	X							
6406/2-5	98024-194X	2100.0	2100.0	S.E.Ctgs							X						
6406/2-5	98024-34	2110.0	2110.0	Cuttings	X	X		X	X								
6406/2-5	98024- 195	2120.0	2120.0	Cuttings				X	X	X		X					
6406/2-5	98024-195X	2120.0	2120.0	S.E.Ctgs							X						
6406/2-5	98024-35	2130.0	2130.0	Cuttings	X	X		X	X								
6406/2-5	98024- 196	2140.0	2140.0	Cuttings				X	X	X							
6406/2-5	98024-196X	2140.0	2140.0	S.E.Ctgs							X						
6406/2-5	98024-36	2150.0	2150.0	Cuttings	X	X		X	X								

Analytical Program (Table 2)

Well Name	Sample Name	Upper Depth	Lower Depth	Sample Type	Headspace gas analysis	Occluded gas analysis	Gas Isotope analysis	Lithology descriptions	TOC	Clean Up Extraction	RockEvalPyrolysis	VR sent IFE	Pyrolysis GC	Solvent Extraction	Saturate GC	Aromatic GC	Saturate GCMS
6406/2-5	98024- 197	2160.0	2160.0	Cuttings				X	X	X							
6406/2-5	98024-197X	2160.0	2160.0	S.E.Ctgs							X						
6406/2-5	98024-37	2170.0	2170.0	Cuttings	X	X		X	X								
6406/2-5	98024- 198	2180.0	2180.0	Cuttings				X	X	X							
6406/2-5	98024-198X	2180.0	2180.0	S.E.Ctgs							X						
6406/2-5	98024-38	2190.0	2190.0	Cuttings	X	X		X	X								
6406/2-5	98024- 199	2200.0	2200.0	Cuttings				X	X	X							
6406/2-5	98024-199X	2200.0	2200.0	S.E.Ctgs							X						
6406/2-5	98024-39	2210.0	2210.0	Cuttings	X	X		X	X								
6406/2-5	98024- 200	2220.0	2220.0	Cuttings				X	X	X		X		X	X	X	X
6406/2-5	98024-200X	2220.0	2220.0	S.E.Ctgs							X		X				
6406/2-5	98024-40	2230.0	2230.0	Cuttings	X	X		X	X								
6406/2-5	98024- 201	2250.0	2250.0	Cuttings				X	X	X				X	X	X	X
6406/2-5	98024-201X	2250.0	2250.0	S.E.Ctgs							X		X				
6406/2-5	98024-41	2260.0	2260.0	Cuttings	X	X		X	X								
6406/2-5	98024- 202	2270.0	2270.0	Cuttings				X	X								
6406/2-5	98024-42	2280.0	2280.0	Cuttings	X	X		X	X	X							
6406/2-5	98024-42X	2280.0	2280.0	S.E.Ctgs							X						
6406/2-5	98024- 203	2290.0	2290.0	Cuttings				X	X								
6406/2-5	98024-43	2300.0	2300.0	Cuttings	X	X	X	X	X	X							
6406/2-5	98024-43X	2300.0	2300.0	S.E.Ctgs							X						
6406/2-5	98024- 204	2310.0	2310.0	Cuttings				X	X								
6406/2-5	98024-44	2320.0	2320.0	Cuttings	X	X		X	X	X		X					
6406/2-5	98024-44X	2320.0	2320.0	S.E.Ctgs							X						
6406/2-5	98024- 205	2330.0	2330.0	Cuttings				X	X								
6406/2-5	98024-45	2340.0	2340.0	Cuttings	X	X		X	X								
6406/2-5	98024- 206	2350.0	2350.0	Cuttings				X	X	X							
6406/2-5	98024-206X	2350.0	2350.0	S.E.Ctgs							X						
6406/2-5	98024-46	2360.0	2360.0	Cuttings	X	X		X	X								
6406/2-5	98024- 207	2370.0	2370.0	Cuttings				X	X								
6406/2-5	98024-47	2380.0	2380.0	Cuttings	X	X		X	X	X							
6406/2-5	98024-47X	2380.0	2380.0	S.E.Ctgs							X						
6406/2-5	98024- 208	2390.0	2390.0	Cuttings				X	X								
6406/2-5	98024-48	2400.0	2400.0	Cuttings	X	X		X	X								
6406/2-5	98024- 209	2410.0	2410.0	Cuttings				X	X	X							
6406/2-5	98024-209X	2410.0	2410.0	S.E.Ctgs							X						
6406/2-5	98024-49	2420.0	2420.0	Cuttings	X	X		X	X			X					
6406/2-5	98024- 210	2430.0	2430.0	Cuttings				X	X								
6406/2-5	98024-50	2440.0	2440.0	Cuttings	X	X		X	X	X							
6406/2-5	98024-50X	2440.0	2440.0	S.E.Ctgs							X						
6406/2-5	98024- 211	2450.0	2450.0	Cuttings				X	X								
6406/2-5	98024-51	2460.0	2460.0	Cuttings	X	X		X	X	X							
6406/2-5	98024-51X	2460.0	2460.0	S.E.Ctgs							X						
6406/2-5	98024- 212	2470.0	2470.0	Cuttings				X	X								
6406/2-5	98024-52	2490.0	2490.0	Cuttings	X	X		X	X	X							
6406/2-5	98024-52X	2490.0	2490.0	S.E.Ctgs							X						
6406/2-5	98024- 213	2495.0	2495.0	Cuttings				X	X	X							
6406/2-5	98024-213X	2495.0	2495.0	S.E.Ctgs							X						
6406/2-5	98024-53	2500.0	2500.0	Cuttings	X	X		X	X								
6406/2-5	98024- 214	2510.0	2510.0	Cuttings				X	X								

Analytical Program (Table 2)

Well Name	Sample Name	Upper Depth	Lower Depth	Sample Type	Headspace gas analysis	Occluded gas analysis	Gas Isotope analysis	Lithology descriptions	TOC	Clean Up Extraction	RockEvalPyrolysis	VR sent IFE	Pyrolysis GC	Solvent Extraction	Saturate GC	Aromatic GC	Saturate GCMS
6406/2-5	98024-54	2515.0	2515.0	Cuttings	X	X		X	X	X							
6406/2-5	98024-54X	2515.0	2515.0	S.E.Ctgs							X						
6406/2-5	98024- 215	2520.0	2520.0	Cuttings				X	X			X					
6406/2-5	98024-55	2525.0	2525.0	Cuttings	X	X		X	X								
6406/2-5	98024- 216	2530.0	2530.0	Cuttings				X	X								
6406/2-5	98024-56	2540.0	2540.0	Cuttings	X	X		X	X	X							
6406/2-5	98024-56X	2540.0	2540.0	S.E.Ctgs							X						
6406/2-5	98024- 217	2545.0	2545.0	Cuttings				X	X								
6406/2-5	98024-57	2550.0	2550.0	Cuttings	X	X		X	X								
6406/2-5	98024- 218	2555.0	2555.0	Cuttings				X	X								
6406/2-5	98024-58	2560.0	2560.0	Cuttings	X	X		X	X								
6406/2-5	98024- 219	2565.0	2565.0	Cuttings				X	X								
6406/2-5	98024-59	2570.0	2570.0	Cuttings	X	X		X	X								
6406/2-5	98024- 220	2575.0	2575.0	Cuttings				X	X								
6406/2-5	98024-60	2580.0	2580.0	Cuttings	X	X		X	X	X							
6406/2-5	98024-60X	2580.0	2580.0	S.E.Ctgs							X						
6406/2-5	98024- 221	2585.0	2585.0	Cuttings				X	X								
6406/2-5	98024-61	2590.0	2590.0	Cuttings	X	X		X	X								
6406/2-5	98024- 222	2595.0	2595.0	Cuttings				X	X								
6406/2-5	98024-62	2600.0	2600.0	Cuttings	X	X	X	X	X	X							
6406/2-5	98024-62X	2600.0	2600.0	S.E.Ctgs							X						
6406/2-5	98024- 223	2605.0	2605.0	Cuttings				X	X	X							
6406/2-5	98024-223X	2605.0	2605.0	S.E.Ctgs							X						
6406/2-5	98024-63	2610.0	2610.0	Cuttings	X	X		X	X								
6406/2-5	98024- 224	2615.0	2615.0	Cuttings				X	X								
6406/2-5	98024-64	2620.0	2620.0	Cuttings	X	X		X	X			X					
6406/2-5	98024- 225	2625.0	2625.0	Cuttings				X	X	X							
6406/2-5	98024-225X	2625.0	2625.0	S.E.Ctgs							X						
6406/2-5	98024-65	2630.0	2630.0	Cuttings	X	X		X	X								
6406/2-5	98024- 226	2635.0	2635.0	Cuttings				X	X								
6406/2-5	98024-66	2640.0	2640.0	Cuttings	X	X		X	X	X							
6406/2-5	98024-66X	2640.0	2640.0	S.E.Ctgs							X						
6406/2-5	98024- 227	2645.0	2645.0	Cuttings				X	X								
6406/2-5	98024-67	2650.0	2650.0	Cuttings	X	X		X	X								
6406/2-5	98024- 228	2655.0	2655.0	Cuttings				X	X	X							
6406/2-5	98024-228X	2655.0	2655.0	S.E.Ctgs							X						
6406/2-5	98024-68	2660.0	2660.0	Cuttings	X	X		X	X								
6406/2-5	98024- 229	2670.0	2670.0	Cuttings				X	X	X							
6406/2-5	98024-229X	2670.0	2670.0	S.E.Ctgs							X						
6406/2-5	98024-69	2680.0	2680.0	Cuttings	X	X		X	X								
6406/2-5	98024- 230	2690.0	2690.0	Cuttings				X	X								
6406/2-5	98024-70	2700.0	2700.0	Cuttings	X	X		X	X	X							
6406/2-5	98024-70X	2700.0	2700.0	S.E.Ctgs							X						
6406/2-5	98024- 231	2710.0	2710.0	Cuttings				X	X								
6406/2-5	98024-71	2720.0	2720.0	Cuttings	X	X		X	X	X		X					
6406/2-5	98024-71X	2720.0	2720.0	S.E.Ctgs							X						
6406/2-5	98024- 232	2730.0	2730.0	Cuttings				X	X								
6406/2-5	98024-72	2740.0	2740.0	Cuttings	X	X		X	X	X							
6406/2-5	98024-72X	2740.0	2740.0	S.E.Ctgs							X						
6406/2-5	98024- 233	2750.0	2750.0	Cuttings				X	X								