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FORMATION PRESSURE WORKSHEET

Well No. : 30/9-14 Rig : Polar Pioneer Date : 17. - 19.04.93

Pressure Units : Bar RKB-MSL : 23m Witnessed by : Waldum/Ree/Giskeodegaard

Run No.	Depth (MD)	Depth TVD (RKB)	Initial Hydrostatic Press		Formation Pressure		Final Hydrostatic Press		Time		Remarks		
			Strain	HP	Strain	HP	Strain	HP	Set	Retract	md/cp	size	
3A / 1	2993.3	2992.7	351.5	351.41	-	-	351.5	351.46	20:28	20:31	Tight		5cc
3A / 2	2993.8	2993.2	351.7	351.60	-	-	351.6	351.56	20:34	20:38	Tight		5cc
3A / 3	2997.3	2996.7	352.0	351.93	-	-	352.0	351.96	20:44	20:52	Tight		5cc
3A / 4	2999.3	2998.7	352.2	352.20	333.4	333.45	352.2	352.21	20:59	21:10	Sup.charge ?		5cc
3A / 5	3008.8	3008.2	353.3	353.31	321.1	321.14	353.3	353.32	21:15	21:22	Tight	0.2	3cc
3A / 6	3013.3	3012.7	353.8	353.83	322.5	322.55	353.8	353.84	21:29	21:35	Tight		3cc
3A / 7	3020.3	3019.7	354.6	354.64	-	-	354.6	354.63	21:44	21:45	Tight		3cc
3A / 8	3059.8	3059.2	359.2	359.18 <sub>1.70</sub>	320.7	320.61 <sub>1.07</sub>	359.2	359.19	21:52	21:53	V good	71	20cc
3A / 9	3062.3	3061.7	359.5	359.46	320.7	320.70	359.5	359.46	22:01	22:02	Good	46	20cc
3A / 10	3065.5	3064.9	359.8	359.85	321.3	321.30	359.8	359.85	22:11	22:17	Sup.charge ?	1.7	20cc
3A / 11	3068.3	3067.7	360.1	360.18	321.0	320.96	360.1	360.18	22:23	22:26	Poor	8.3	10cc
3A / 12	3071.3	3070.7	360.5	360.52	-	-	360.5	360.53	22:33	22:37	Tight	0.1	3cc
3A / 13	3074.2	3073.6	360.8	360.81	321.1	321.06	360.8	360.82	22:45	22:48	Good	25	10cc
3A / 14	3077.7	3077.1	361.2	361.24	321.5	321.44	361.2	361.24	22:54	22:59	Fair	13	10cc

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RKB-MSL : 23m

Witnessed by : Waldum/Ree/Giskeodegaard

Run No.	Depth (MD)	Depth TVD (RKB)	Initial Hydrostatic Press		Formation Pressure		Final Hydrostatic Press		Time		Remarks		
			Strain	HP	Strain	HP	Strain	HP	Set	Retract		md/cp	size
3A / 15	3085.4	3084.8	362.1	362.13	323.3	323.34	362.1	362.13	23:06	23:12	Sup.charge ?	5.3	20cc
3A / 16	3091.3	3090.7	362.8	362.79	323.2	323.24	362.8	362.79	23:20	23:28	Leak ?	2.9	20cc
3A / 17	3095.3	3094.7	363.2	363.25	-	-	363.2	363.29	23:35	23:39	Tight		20cc
3A / 18	3096.3	3095.7	363.4	363.38	-	-	363.3	363.39	23:44	23:45	Tight		5cc
3A / 19	3104.3	3103.7	364.3	364.28	323.3	323.35	364.2	364.29	23:55	23:59	V poor	3.6	20cc
3A / 20	3112.8	3112.2	365.2	365.24	322.9	322.82	365.2	365.24	00:10	00:12	Good	52	20cc
3A / 21	3118.8	3118.2	365.9	365.92	322.8	322.80	365.9	365.91	00:24	00:28	Excell	114	20cc
3A / 22	3125.3	3124.7	366.6	366.66	323.2	323.20	366.6	366.66	00:30	00:34	Excell	118	20cc
3A / 23	3128.8	3128.2	367.0	367.07	323.8	323.77	367.0	367.06	00:40	00:45	Sup.charge ?	7.4	20cc
3A / 24	3126.9	3126.3	366.8	366.83	323.3	323.29	366.8	366.83	00:53	00:55	Excell	155	20cc
3A / 25	3136.3	3135.7	367.9	367.93	324.1	324.03	367.9	367.93	01:02	01:03	Excell	157	20cc
3A / 26	3142.5	3141.9	368.5	368.61	324.6	324.63	368.5	368.61	01:19	01:21	Excell	451	20cc
3A / 27	3147.0	3146.4	369.1	369.11	325.1	325.06	369.1	369.11	01:30	01:32	Excell	190	20cc
3A / 28	3157.0	3156.3	370.2	370.26	326.1	326.03	370.3	370.27	01:38	01:40	Excell	340	20cc

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Pressure Units : Bar

RKB-MSL : 23m

Witnessed by : Waldum/Ree/Giskeodegaard

Run No.	Depth (MD)	Depth TVD(RKB)	Initial Hydrostatic Press		Formation Pressure		Final Hydrostatic Press		Time		Remarks	
			Strain	HP	Strain	HP	Strain	HP	Set	Retract	md/cp	size
3A / 29	3163.0	3162.3	370.9	370.92	-	-	370.9	370.96	01:46	01:48	Tight	20cc
3A / 30	3166.5	3165.8	371.3	371.29	-	-	371.3	371.28	01:55	01:56	Tight	5cc
3A / 31	3169.3	3168.6	370.7	371.50	-	-	370.7	371.58	02:03	02:04	Tight	20cc
3A / 32	3174.3	3173.6	372.0	372.12	-	-	372.0	372.11	02:24	02:26	Tight	5cc
3A / 33	3174.5	3173.8	372.0	372.18	-	-	372.0	372.40	02:29	02:31	Tight	5cc
3A / 34	3175.0	3174.3	372.2	372.23	331.2	331.20	372.2	372.23	02:40	02:45	Poor	0.6 5cc
3A / 35	3184.0	3183.3	373.2	373.24	334.5	334.47	373.2	373.26	02:51	02:56	Poor	0.6 5cc
3A / 36	3209.0	3208.3	376.2	376.07	331.5	331.04	376.1	376.08	03:05	03:08	Fair	5.5 5cc
3A / 37	3212.0	3211.3	376.3	376.43	331.3	331.41	376.3	376.43	03:15	03:18	Sup.charge	5cc
3A / 38	3228.0	3227.3	378.3	378.25	-	-	378.3	378.28	03:26	03:30	Tight	5cc
3A / 39	3256.0	3255.3	381.4	381.40	335.7	335.60	381.4	381.40	03:37	03:40	Good	61 15cc
3A / 40	3263.5	3262.8	382.3	382.27	336.6	336.53	382.3	382.26	03:45	03:47	Good	48 15cc
3A / 41	3278.5	3277.8	384.0	383.99	338.6	338.55	384.0	383.97	03:54	03:58	Excell	201 20cc
3A / 42	3304.3	3303.6	386.9	386.91	342.3	342.26	386.9	386.89	04:02	04:06	Good	30 20cc

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 Pressure Units : Bar                      RKB-MSL : 23m                      Witnessed by : Waldum/Ree/Giskeodegaard

Run No.	Depth (MD)	Depth TVD (RKB)	Initial Hydrostatic Press		Formation Pressure		Final Hydrostatic Press		Time		Remarks		
			Strain	HP	Strain	HP	Strain	HP	Set	Retract		md/cp	size
3A / 43	3328.5	3327.8	389.7	389.64	344.0	343.86 <sub>1.05</sub>	389.7	389.63	04:12	04:15	Good	79	20cc
3A / 44	3342.0	3341.3	391.2	391.17	346.8	346.78	391.2	391.17	04:20	04:22	Poor	6.6	20cc
3A / 45	3377.5	3376.7	395.3	395.20	-	-	395.3	395.23	04:31	04:32	Tight		20cc
3A / 46	3402.0	3401.8	391.1	398.00	351.4	351.27	398.1	397.99	04:38	04:41			20cc
S A M P L I N G			see separate sheets										
3A / 47	3074.9	3074.3	360.8	360.76	322.0	321.96	360.7	360.75	11:05	10:10	Supercharge?	1.6	5cc
3A / 48	3086.3	3085.7	362.1	362.07	322.8	322.74	362.1	362.01	11:18	11:20	V poor	2.4	5cc
3A / 49	3129.5	3128.9	367.0	366.98	323.9	323.85	367.0	366.92	11:35	11:40	V poor	4.4	5cc
3A / 50	2996.0	2995.4	351.8	351.74	-	-	351.8	351.75	12:00	12:10	Tight		5cc
3A / 51	3006.5	3005.9	353.0	352.92	-	-	352.9	353.13	12:20	12:30	Tight		5cc
3A / 52	3010.0	3009.4	353.3	353.31	319.5	319.47	353.3	353.31	12:38	12:55	V poor	0.2	5cc
3A / 53	3018.5	3017.9	354.3	354.31	-	-	354.3	354.31	12:58	13:07	Tight		5cc
3A / 54	3026.25	3025.65	355.2	355.18	-	-	355.2	355.18	13:13	13:17	Tight		5cc
3A / 55	3034.5	3033.9	356.2	356.16	-	-	356.2	356.15	13:22	13:23	Tight		5cc

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Run No.	Depth (MD)	Depth TVD(RKB)	Initial Hydrostatic Press		Formation Pressure		Final Hydrostatic Press		Time		Remarks		
			Strain	HP	Strain	HP	Strain	HP	Set	Retract	md/cp	size	
3A / 56	3066.25	3065.65	359.8	359.74	323.0	322.96	359.8	359.75	13:32	13:38	Supercharge		5cc
3A / 57	3069.5	3068.9	360.2	360.12	331.2	331.08	360.2	360.12	13:45	13:50	Supercharge		5cc
3A / 58	3086.25	3085.65	362.1	362.03	322.5	322.36	362.1	362.06	14:00	14:06	V poor	3.4	5cc
3A / 59	3100.5	3099.9	363.7	363.68	-	-	363.7	363.67	14:13	14:17	Tight		5cc
3A / 60	3105.0	3104.4	364.3	364.20	-	-	364.2	364.22	14:24	14:27	Tight		5cc
3A / 61	3114.0	3113.4	365.3	365.21	-	-	365.3	365.21	14:33	14:37	Tight		5cc
3A / 62	3172.0	3171.3	371.9	371.80	-	-	371.8	371.81	14:46	14:52	Tight		5cc
3A / 63	3448.0	3447.1	403.3	403.11	359.0	358.85	403.3	403.14	15:19	15:25	V poor	3.6	5cc
3A / 64	3452.5	3451.6	403.8	403.67	359.3	359.19	403.7	403.67	15:40	15:44	Good	65	20cc
3A / 65	3463.5	3462.5	405.0	404.91	-	-	405.0	404.90	15:28	15:33	Tight		5cc
3A / 66	3480.5	3479.5	407.0	406.82	-	-	407.0	406.81	15:52	15:56	Tight		5cc
3A / 67	3485.0	3484.0	407.4	407.35	-	-	407.4	407.38	16:01	16:12	Supercharge		5cc
3A / 68	3494.5	3493.5	408.5	408.43	-	-	408.5	408.45	16:20	16:22	Tight		5cc
3A / 69	3498.5	3497.5	409.0	408.90	366.8	366.70	409.0	408.90	16:28	16:38	V poor		5cc



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Witnessed by : Waldum/Ree/Giskeodegaard

Run No.	Depth (MD)	Depth TVD(RKB)	Initial Hydrostatic Press		Formation Pressure		Final Hydrostatic Press		Time		Remarks		
			Strain	HP	Strain	HP	Strain	HP	Set	Retract		md/cp	Temp
3B / 1	3060.5	3059.9	357.84	360.22	319.33	320.95	357.60	359.44	19:30	19:50	Good	163	103
3B / 2	3062.5	3061.9	359.78	359.65	319.40	321.00	357.77	359.67	19:56	20:00	Mod	28	103
3B / 3	3066.1	3065.5	358.24	360.01	320.05	321.40 #	358.27	360.11	20:04	20:14	V poor #	2.5	106
3B / 4	3069.1	3068.5	358.63	360.37	-	-	358.61	360.50	20:21	20:23	Tight		106
3B / 5	3074.8	3074.2	359.33	361.09	320.11	321.65	359.37	361.09	20:30	20:40	Tight/sup.ch	0.7	107
3B / 6	3078.3	3077.7	359.79	361.40	320.65	322.10	359.84	361.47	20:47	20:57	V poor	2.3	107
3B / 7	3081.3	3080.7	360.22	361.71	-	-	360.17	362.09	21:03	21:05	Tight		108
3B / 8	3082.1	3081.5	360.31	360.90	-	-	360.30	360.90	21:11	21:14	Tight		108
3B / 9	3086.1	3085.5	360.81	362.40	323.80	325.24	360.80	362.47	21:18	21:25	Sup.charge ?	2.0	108
3B / 10	3087.1	3086.5	360.95	362.51	321.31	322.65	360.96	362.51	21:30	21:40	Sup.charge ?	2.4	108
3B / 11	3092.0	3091.4	361.55	363.01	-	-	361.51	363.30	21:48	21:50	Tight		108
3B / 12	3101.8	3101.2	362.65	364.26	-	-	362.64	364.31	22:00	22:03	Tight		109
3B / 13	3113.5	3112.9	364.00	365.60	-	-	363.90	365.70	22:12	22:14	Tight		109
3B / 14	3113.2	3112.7	364.00	365.61	321.90	323.21	364.00	365.58	22:21	22:24	Mod	30	109

# = spherical flow analysis

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Pressure Units :		Bar		RKB-MSL : 23m				Witnessed by : Waldum/Ree/Giskeodegaard					
Run No.	Depth (MD)	Depth TVD (RKB)	Initial Hydrostatic Press		Formation Pressure		Final Hydrostatic Press		Time		Remarks		
			Strain	HP	Strain	HP	Strain	HP	Set	Retract	md/cp	Temp	
3B / 15	3126.0	3125.4	365.48	367.10	322.27	323.70	365.48	367.09	22:31	22:34	V poor	1.6	109
3B / 16	3129.5	3128.9	365.90	362.42	322.77	324.06	365.91	367.43	22:43	22:46	V poor	9.3	110
3B / 17	3138.0	3137.4	366.90	368.45	323.25	324.60 <sub>1.65</sub>	366.86	368.47	22:55	22:57	Good	132	110
3B / 18	3155.0	3154.3	368.83	370.55	324.94	326.15	368.86	370.30	23:05	23:15			110
3B / 19	3498.5	3497.5	408.70	408.90	366.14	365.43 <sub>1.65</sub>	408.80	408.79	23:54	00:02	V poor	3.5	122
3B / 20	3501.2	3500.2	409.16	409.08	366.48	366.66	409.22	409.59	00:10	00:16	V poor	2.1	123
3B / 21	3503.0	3502.0	409.48	409.53	366.62	366.69	plugged	409.54	00:21	00:26	V poor	5.1	124
3B / 22	3506.2	3505.2	plugged	409.97	plugged	371.10	plugged	409.90	00:36	00:43	V poor	0.6	125
3B / 23	3506.0	3505.0	409.27	410.18	370.29	371.08 <sub>1.08</sub>	409.27	410.18	00:49	00:56	V poor	1.1	125
3B / 24	3510.0	3509.0	409.70	410.72	-	-	No seal ; tried also 0.2m below but no seal						
3B / 25	3510.5	3509.5	409.80	411.07	-	-	409.71	411.46	01:13	01:15	Tight		126
3B / 26	3515.0	3514.0	410.24	411.30	-	-	410.25	411.50	01:20	01:22	Tight		126
3B / 27	3498.5	3497.5	408.40	409.20	-	-	408.44	plugged	01:36	01:38	Att sampling - tight		
3B / 28	3498.7	3497.7	408.44	plugged	-	-	408.39	plugged	01:40	01:42	Att sampling - tight		
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Pressure Units : Bar			RKB-MSL : 23m				Witnessed by : Waldum/Ree/Giskeodegaard				
Run No.	Depth (MD)	Depth TVD(RKB)	Initial Hydrostatic Press		Formation Pressure		Final Hydrostatic Press		Time		Remarks Temp. C    Mob. mD/cP
			Strain	HP	Strain	HP	Strain	HP	Set	Retract	
3B / 29	3503.0	3502.0	408.93	*	366.00	*	408.88	*	01:58	02:13	Sampling 126 3.3
Opened 2 3/4" chamber at 02:00, closed chamber after a while too watch build up.											
It took 10 min to fill the flow line (a few cc), and sampling was abandoned in the Ore											
as the derived permeability corresponded to the other which were monitored during pretesting.											
3B / 30	3113.2	3112.6	364.46	*	Strain gauge plugged? during pretest, unable to monitor reservoir pres.						
Tried to slide down and try again, without improvement.											
3B / 31	3113.2	3112.6	364.55	*	New attempt with tie-in from above. Result a/a.						
Decided to give up this location and move to 3060.5 for a last attempt.											
3B / 32	3060.5	3059.9	355.47	*	320.30	*	355.42	*	03:05	03:27	Sampling 110 136.5
Open 2 3/4" at 03:08.    Close 2 3/4" at 03:17.    Shut in pressure: 319.9 bar.											
Max drawdown pressure: 80 bar.    Sampling pressure 307 bar.											
Open 1" at 03:18.    Close 1" at 03:25.    Shut in pressure: 320.1 bar.											
Max drawdown pressure: 307 bar.											

\*Note: HP-gauge is plugged.

<b>WELL TEST RESULTS</b>	<b>WELL: 30/9-14</b>		
TEST NO.	1	2	3
PERFORATED INTERVAL (m MD-RKB)	3144.5 - 3157.5	3084 - 3127	
CHOKE SIZE (1/64 inch)	56	64	
OIL/COND.FLOW RATE (Sm <sup>3</sup> /d)	0	933	
GAS FLOW RATE (Sm <sup>3</sup> /d)	1983	146.000	
WATER FLOW RATE (Sm /d)	650	0	
GLR (Sm <sup>3</sup> /Sm <sup>3</sup> )	3.1	157	
OIL/COND. GRAVITY (g/cc @ 15°C)	WTR DENS. 1.029	0.844	
GAS GRAVITY (air=1)	0.715	0.715	
FWHP (bar)	11	58	
SIWHP (bar)	n.a.	127	
FWHT (°C)	74	54	
FBHT (°C)	118	118	
FBHP (bar)	317.1	217.5	
SIBHP (bar)	323.4	317.1	
BS&W (%)	100	0	
CO <sub>2</sub> (% max)	14	3.5	
H <sub>2</sub> S (ppm max)	1.5	2.5	
k (mD) for net pay	478	123	
Net pay, m	22.5	14.25	
SKIN	5.5	4.0	
PI (Sm <sup>3</sup> /d/bar)	100	9.4	
DEPTH OF BH MEASUREMENTS (m MD-RKB)	3128.7	3027.6	
<b>REMARKS:</b>			

6.1 Drilling fluid summary

The 36", 24" and 17 1/2" hole sections were drilled riserless, using seawater and high viscosity sweeps.

The 36" hole was displaced to 1.20 sg mud prior to running the 30" casing.

In the 24" hole section the pilot hole from 365 m to 436 m was drilled with 1.20 sg mud as a precaution against shallow gas, but was subsequently opened out to 24" with seawater. The hole was displaced to 1.20 sg mud prior to trips and running casing.

In the 17 1/2" section, the mud weight was maintained at 1.20 sg throughout the section. High viscosity pills were pumped every stand to help hole cleaning.

The 12 1/4" hole section was drilled with a KCL/PHPA/polymer mud system. The mud weight was raised progressively from 1.10 sg to 1.35 sg by 1720 m, to take account of a pore pressure increase.

KCL/PHPA mud was used in the 8 1/2" hole section. The mud weight was reduced to 1.15 sg to drill this section. It increased slightly to 1.18 sg by T.D.

Hole section: WATER BASED SYSTEM

Date	Depth [m]		Mud Type	Funnel Visc [sec]	Dens [sg]	Mudtmp Out [DegC]	Fann Readings						Rheo Test [DegC]	PV [mPas]	YP [Pa]	Gel0 [Pa]	Gel10 [Pa]		
	MD	TVD					600	300	200	100	60	30						6	3
09-mar-1993 23:59	0	0	KCL/POLYME	45.0	1.47	16.0	42	30	20	14			14	3	50.0	12.0	9.0	2.0	7.0

Hole section: 36" WATER BASED SYSTEM

Date	Depth [m]		Mud Type	Funnel Visc [sec]	Dens [sg]	Mudtmp Out [DegC]	Fann Readings						Rheo Test [DegC]	PV [mPas]	YP [Pa]	Gel0 [Pa]	Gel10 [Pa]		
	MD	TVD					600	300	200	100	60	30						6	3
16-mar-1993 23:59	217	217	SPUD MUD	100.0	1.05	0.0									0.0	0.0	0.0	0.0	0.0

Hole section: 24" WATER BASED SYSTEM

Date	Depth [m]		Mud Type	Funnel Visc [sec]	Dens [sg]	Mudtmp Out [DegC]	Fann Readings						Rheo Test [DegC]	PV [mPas]	YP [Pa]	Gel0 [Pa]	Gel10 [Pa]		
	MD	TVD					600	300	200	100	60	30						6	3
17-mar-1993 23:59	217	217	SPUD MUD	100.0	1.05	0.0									0.0	0.0	0.0	0.0	0.0
18-mar-1993 23:59	217	217	SPUD MUD	100.0	1.05	0.0									0.0	0.0	0.0	0.0	0.0
19-mar-1993 23:59	478	478	SPUD MUD	100.0	1.20	0.0									0.0	0.0	0.0	0.0	0.0
20-mar-1993 23:59	478	478	SPUD MUD	100.0	1.20	0.0									0.0	0.0	0.0	0.0	0.0

Hole section: 17 1/2" WATER BASED SYSTEM

Date	Depth [m]		Mud Type	Funnel Visc [sec]	Dens [sg]	Mudtmp Out [DegC]	Fann Readings						Rheo Test [DegC]	PV [mPas]	YP [Pa]	Gel0 [Pa]	Gel10 [Pa]		
	MD	TVD					600	300	200	100	60	30						6	3
21-mar-1993 23:59	456	456	SPUD MUD	80.0	1.20	16.0	66	55	48	44			38	30	30.0	11.0	22.0	10.0	15.0
22-mar-1993 23:59	921	921	SPUD MUD	40.0	1.20	16.0	30	25	20	15			9	8	30.0	5.0	10.0	6.0	7.0
23-mar-1993 23:59	1040	1040	SPUD MUD	40.0	1.20	16.0	30	24	19	14			7	6	30.0	6.0	9.0	5.0	6.0

Hole section: 12 1/4" WATER BASED SYSTEM

Date	Depth [m]		Mud Type	Funnel Visc [sec]	Dens [sg]	Mudtmp Out [DegC]	Fann Readings						Rheo Test [DegC]	PV [mPas]	YP [Pa]	Gel0 [Pa]	Gel10 [Pa]		
	MD	TVD					600	300	200	100	60	30						6	3
24-mar-1993 23:59	993	993	SPUD MUD	50.0	1.10	16.0	30	24	16	9			3	1	50.0	6.0	9.0	2.0	3.0
25-mar-1993 23:59	1043	1043	SPUD MUD	50.0	1.10	16.0									50.0	6.0	9.0	2.0	3.0
26-mar-1993 15:30	1188	1188	KCL/POLYME	50.0	1.10	22.5	57	38	25	18			3	1	50.0	19.0	9.5	1.0	2.0

See also the report 'DAILY MUD PROPERTIES : OTHER PARAMETERS'

Hole section: 12 1/4"

WATER BASED SYSTEM

Date	Depth [m]		Mud Type	Funnel Visc [sec]	Dens [sg]	Mudtmp Out [DegC]	Fann Readings								Rheo Test [DegC]	PV [mPas]	YP [Pa]	Gel0 [Pa]	Gel10 [Pa]	
	MD	TVD					600	300	200	100	60	30	6	3						
26-mar-1993	23:59	1369	1369	KCL/POLYME	63.0	1.32	22.5	67	45	34	22			3	1	50.0	22.0	11.5	1.0	2.0
27-mar-1993	23:59	1995	1995	KCL/POLYME	61.0	1.35	36.0	76	50	39	24			3	2	50.0	26.0	12.0	1.0	2.0
28-mar-1993	23:59	2231	2231	KCL/POLYME	66.0	1.35	39.0	78	53	40	25			3	2	50.0	25.0	14.0	1.0	1.0
29-mar-1993	23:59	2516	2516	KCL/POLYME	66.0	1.35	39.0	72	46	36	22			3	2	50.0	26.0	10.0	1.0	2.0
30-mar-1993	23:59	2860	2860	KCL/POLYME	59.0	1.35	36.0	76	50	39	24			3	2	50.0	26.0	12.5	1.0	2.0
31-mar-1993	23:59	2912	2912	KCL/POLYME	60.0	1.36	0.0	86	55	41	25			3	2	50.0	31.0	12.0	1.0	2.0
01-apr-1993	23:59	2912	2912	KCL/POLYME	59.0	1.35	0.0	78	49	36	27			3	2	50.0	29.0	10.0	1.0	2.0
02-apr-1993	23:59	0	0	KCL/POLYME	60.0	1.35	0.0	76	50	39	24			3	2	50.0	26.0	12.5	1.0	2.0
03-apr-1993	23:59	0	0	KCL/POLYME	62.0	1.15	0.0	79	52	39	23			3	2	50.0	27.0	12.5	1.0	3.0

Hole section: 8 1/2"

WATER BASED SYSTEM

Date	Depth [m]		Mud Type	Funnel Visc [sec]	Dens [sg]	Mudtmp Out [DegC]	Fann Readings								Rheo Test [DegC]	PV [mPas]	YP [Pa]	Gel0 [Pa]	Gel10 [Pa]	
	MD	TVD					600	300	200	100	60	30	6	3						
04-apr-1993	23:59	2915	2915	NACL BRINE	64.0	1.15	0.0	65	42	30	18			3	2	50.0	23.0	9.5	1.5	3.0
05-apr-1993	23:59	2969	2968	NACL POLYM	58.0	1.15	0.0	55	38	23	13			2	1	50.0	22.0	7.0	1.0	2.5
06-apr-1993	23:59	2985	2984	NACL BRINE	58.0	1.15	0.0	64	40	30	18			3	2	50.0	24.0	8.0	1.5	10.0
07-apr-1993	23:59	3004	3003	NACL BRINE	63.0	1.15	0.0	60	37	25	16			3	2	50.0	23.0	7.0	1.5	3.0
08-apr-1993	23:59	3074	3073	NACL BRINE	61.0	1.16	0.0	56	34	23	14			3	2	50.0	22.0	6.0	1.5	3.0
09-apr-1993	23:59	3166	3165	NACL BRINE	62.0	1.15	0.0	50	31	21	13			3	2	50.0	19.0	6.0	1.5	3.0
10-apr-1993	23:59	3219	3218	NACL BRINE	63.0	1.15	0.0	55	35	23	15			3	2	50.0	20.0	7.5	1.5	3.0
11-apr-1993	23:59	3248	3247	NACL BRINE	59.0	1.15	0.0	58	39	29	19			4	2	50.0	19.0	9.0	2.0	4.0
12-apr-1993	23:59	3322	3321	NACL BRINE	54.0	1.15	0.0	52	36	28	19			5	3	50.0	16.0	10.0	2.0	4.0
13-apr-1993	23:59	3470	3469	NACL BRINE	48.0	1.16	0.0	47	33	26	19			5	3	50.0	14.0	9.5	2.0	4.0
14-apr-1993	23:59	3500	3499	NACL BRINE	55.0	1.16	0.0	43	30	23	15			4	3	50.0	13.0	8.5	2.0	4.0
15-apr-1993	23:59	3534	3533	NACL BRINE	57.0	1.16	0.0	48	34	24	16			5	3	50.0	14.0	10.0	2.5	4.0
16-apr-1993	23:59	3680	3678	NACL BRINE	53.0	1.19	0.0	54	39	31	22			6	4	50.0	15.0	12.0	2.5	5.0
17-apr-1993	23:59	3680	3678	NACL BRINE	53.0	1.19	0.0									50.0	15.0	12.0	2.5	5.0
18-apr-1993	23:59	3680	3678	NACL BRINE	53.0	1.19	0.0									50.0	15.0	12.0	2.5	5.0
19-apr-1993	23:59	3680	3678	NACL BRINE	59.0	1.19	0.0	54	39	32	21			5	3	50.0	15.0	12.0	2.6	5.0
20-apr-1993	23:59	3680	3678	NACL BRINE	57.0	1.19	0.0	52	38	31	19			5	3	50.0	14.0	12.0	2.5	5.0
21-apr-1993	23:59	3680	3678	NACL BRINE	53.0	1.19	0.0	49	37	31	18			5	3	50.0	12.0	12.5	2.5	5.0
22-apr-1993	23:59	3680	3678	NACL BRINE	54.0	1.19	0.0	48	35	30	18			5	3	50.0	13.0	11.0	2.5	5.0
23-apr-1993	23:59	3668	3666	NACL BRINE	55.0	1.19	0.0	49	36	31	19			6	4	50.0	13.0	11.5	2.5	6.0
24-apr-1993	23:59	3668	3666	NACL BRINE	52.0	1.19	0.0	52	37	32	20			6	4	50.0	15.0	11.0	2.5	7.0
25-apr-1993	23:59	3668	3666	NACL BRINE	52.0	1.19	0.0	52	37	32	20			6	4	50.0	15.0	11.0	2.5	7.0

See also the report 'DAILY MUD PROPERTIES : OTHER PARAMETERS'

Hole section: 8 1/2"

WATER BASED SYSTEM

Date	Depth [m]		Mud Type	Funnel Visc [sec]	Dens [sg]	Mudtmp Out [DegC]	Fann Readings								Rheo Test [DegC]	FV [mPas]	YP [Pa]	Gel10 [Pa]	Gel10 [Pa]
	MD	TVD					600	300	200	100	60	30	6	3					
26-apr-1993 23:59	3668	3666	NACL BRINE	52.0	1.19	0.0	52	37	32	20			6	4	50.0	15.0	11.0	2.5	7.0
27-apr-1993 23:59	0	0	NACL BRINE	50.0	1.19	0.0	50	35	29	19			5	3	50.0	15.0	10.0	3.0	6.5
28-apr-1993 23:59	0	0	NACL BRINE	51.0	1.19	0.0	48	34	27	17			5	3	50.0	14.0	10.0	2.5	5.0
29-apr-1993 23:59	0	0	NACL BRINE	70.0	1.15	0.0	70	50	39	26			7	4	50.0	20.0	15.0	3.0	14.0
30-apr-1993 23:59	3141	3140	NACL BRINE	51.0	1.15	0.0	62	45	32	22			8	5	50.0	17.0	14.0	2.5	6.0
01-may-1993 23:59	3141	3140	NACL BRINE	52.0	1.13	0.0	58	41	32	21			6	4	50.0	17.0	12.0	2.5	6.0
02-may-1993 23:59	0	0	NACL BRINE	53.0	1.13	0.0	55	38	28	18			5	3	50.0	17.0	10.5	2.0	6.0
03-may-1993 23:59	0	0	NACL BRINE	60.0	1.13	0.0	64	46	37	27			7	5	50.0	18.0	14.0	3.0	8.0
04-may-1993 23:59	0	0	NACL BRINE	55.0	1.13	0.0	60	43	35	24			6	4	50.0	17.0	13.0	2.5	7.0
05-may-1993 23:59	0	0	NACL BRINE	53.0	1.13	0.0	56	40	33	21			5	3	50.0	16.0	12.0	3.0	6.5
06-may-1993 23:59	0	0	NACL BRINE	55.0	1.13	0.0	58	41	33	20			5	3	50.0	17.0	12.0	3.0	6.5
07-may-1993 23:59	0	0	NACL BRINE	53.0	1.13	0.0									50.0	17.0	11.0	2.0	5.0
08-may-1993 23:59	3141	3140	NACL BRINE	48.0	1.13	0.0	48	33	27	15			5	3	50.0	15.0	9.0	2.0	3.5
09-may-1993 23:59	3141	3140	NACL BRINE	50.0	1.13	0.0	50	35	28	18			6	4	50.0	14.0	11.0	2.0	5.0
10-may-1993 23:59	2900	2900	NACL BRINE	46.0	1.13	0.0	46	31	21	13			5	2	50.0	15.0	8.0	2.0	3.0
11-may-1993 23:59	2690	2690	NACL BRINE	55.0	1.13	0.0	52	34	25	18			5	3	50.0	18.0	8.0	2.5	6.0
12-may-1993 23:59	800	800	NACL BRINE	60.0	1.13	0.0	58	40	32	23			7	4	50.0	18.0	11.0	3.0	7.0
13-may-1993 23:59	180	180	NACL BRINE	57.0	1.13	0.0	54	38	29	20			5	3	50.0	16.0	11.0	2.0	6.0
14-may-1993 23:59	180	180	NACL BRINE	53.0	1.13	0.0	50	33	28	18			5	3	50.0	17.0	8.0	2.0	3.5

See also the report 'DAILY MUD PROPERTIES : OTHER PARAMETERS'

Hole section: \_\_\_\_\_ WATER BASED SYSTEM

Date	Depth (m)		Mud Type	Dens (sg)	Filtrate		Filt. cake	HEHT	pH	Alcalinity			Inhib	K+	Cl-	Ca++	Mg++	Tot hard	Percentage			CBC	ASG	LGS
	MD	TVD			API (ml)	HPHT (ml)	API (mm)	Press/Temp (psi/DegC)		Ca	Mg	Na	Chem (Kg/m3)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg)	Solid (%)	Oil (%)	Sand (%)	(Kg/m3)	(sg)	(Kg/m3)
09-mar-1993 23:59	0	0	KCL/POLYME	1.47	14.0	0.0	1	0/0	8.8	0.3	0.2	0.8	0	0	40000	2200	0	2600	15.0	0.0	0.0	20	0.0	0

Hole section: 36" WATER BASED SYSTEM

Date	Depth (m)		Mud Type	Dens (sg)	Filtrate		Filt. cake	HEHT	pH	Alcalinity			Inhib	K+	Cl-	Ca++	Mg++	Tot hard	Percentage			CBC	ASG	LGS
	MD	TVD			API (ml)	HPHT (ml)	API (mm)	Press/Temp (psi/DegC)		Ca	Mg	Na	Chem (Kg/m3)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg)	Solid (%)	Oil (%)	Sand (%)	(Kg/m3)	(sg)	(Kg/m3)
16-mar-1993 23:59	217	217	SPUD MUD	1.05	0.0	0.0	0	0/0	10.0	0.0	0.0	0.0	0	0	0	0	0	0	0.0	0.0	0.0	0	0.0	0

Hole section: 24" WATER BASED SYSTEM

Date	Depth (m)		Mud Type	Dens (sg)	Filtrate		Filt. cake	HEHT	pH	Alcalinity			Inhib	K+	Cl-	Ca++	Mg++	Tot hard	Percentage			CBC	ASG	LGS
	MD	TVD			API (ml)	HPHT (ml)	API (mm)	Press/Temp (psi/DegC)		Ca	Mg	Na	Chem (Kg/m3)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg)	Solid (%)	Oil (%)	Sand (%)	(Kg/m3)	(sg)	(Kg/m3)
17-mar-1993 23:59	217	217	SPUD MUD	1.05	0.0	0.0	0	0/0	10.0	0.0	0.0	0.0	0	0	0	0	0	0	0.0	0.0	0.0	0	0.0	0
18-mar-1993 23:59	217	217	SPUD MUD	1.05	0.0	0.0	0	0/0	10.0	0.0	0.0	0.0	0	0	0	0	0	0	0.0	0.0	0.0	0	0.0	0
19-mar-1993 23:59	478	478	SPUD MUD	1.20	0.0	0.0	0	0/0	10.0	0.0	0.0	0.0	0	0	0	0	0	0	0.0	0.0	0.0	0	0.0	0
20-mar-1993 23:59	478	478	SPUD MUD	1.20	0.0	0.0	0	0/0	10.0	0.0	0.0	0.0	0	0	0	0	0	0	0.0	0.0	0.0	0	0.0	0

Hole section: 17 1/2" WATER BASED SYSTEM

Date	Depth (m)		Mud Type	Dens (sg)	Filtrate		Filt. cake	HEHT	pH	Alcalinity			Inhib	K+	Cl-	Ca++	Mg++	Tot hard	Percentage			CBC	ASG	LGS
	MD	TVD			API (ml)	HPHT (ml)	API (mm)	Press/Temp (psi/DegC)		Ca	Mg	Na	Chem (Kg/m3)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg)	Solid (%)	Oil (%)	Sand (%)	(Kg/m3)	(sg)	(Kg/m3)
21-mar-1993 23:59	456	456	SPUD MUD	1.20	0.0	0.0	0	0/0	10.0	0.0	0.0	0.0	0	0	0	0	0	200	0.0	0.0	0.0	0	0.0	0
22-mar-1993 23:59	921	921	SPUD MUD	1.20	0.0	0.0	0	0/0	10.0	0.0	0.0	0.0	0	0	0	0	0	400	0.0	0.0	0.0	0	0.0	0
23-mar-1993 23:59	1040	1040	SPUD MUD	1.20	0.0	0.0	0	0/0	9.0	0.0	0.0	0.0	0	0	16000	550	0	320	0.0	0.0	0.0	0	0.0	0

Hole section: 12 1/4" WATER BASED SYSTEM

Date	Depth (m)		Mud Type	Dens (sg)	Filtrate		Filt. cake	HEHT	pH	Alcalinity			Inhib	K+	Cl-	Ca++	Mg++	Tot hard	Percentage			CBC	ASG	LGS
	MD	TVD			API (ml)	HPHT (ml)	API (mm)	Press/Temp (psi/DegC)		Ca	Mg	Na	Chem (Kg/m3)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg)	Solid (%)	Oil (%)	Sand (%)	(Kg/m3)	(sg)	(Kg/m3)
24-mar-1993 23:59	893	893	SPUD MUD	1.10	0.0	0.0	0	0/0	9.0	0.0	0.0	0.0	0	0	57000	0	0	360	0.0	0.0	0.0	0	0.0	0
25-mar-1993 23:59	1043	1043	SPUD MUD	1.10	0.0	0.0	0	0/0	10.0	0.0	0.0	0.0	0	0	57000	0	0	360	0.0	0.0	0.0	0	0.0	0
26-mar-1993 23:59	1138	1138	KCL/POLYME	1.10	0.0	0.0	0	0/0	10.0	0.0	0.0	0.0	0	0	57000	0	0	360	0.0	0.0	0.0	0	0.0	0
27-mar-1993 23:59	1895	1895	KCL/POLYME	1.35	2.8	0.0	1	0/0	9.0	0.2	0.0	0.5	110	53000	58000	0	0	550	12.0	0.0	0.0	21	0.0	0
28-mar-1993 23:59	2231	2231	KCL/POLYME	1.35	2.7	0.0	1	0/0	9.0	0.1	0.1	0.5	103	54	66000	560	0	680	11.0	0.0	0.0	21	0.0	0
29-mar-1993 23:59	2516	2516	KCL/POLYME	1.35	2.8	0.0	1	0/0	9.0	0.0	0.0	0.5	105	54	62000	360	0	500	11.0	0.0	0.0	23	0.0	0
30-mar-1993 23:59	2860	2860	KCL/POLYME	1.35	2.8	14.0	1	500/100	9.0	0.1	0.0	0.5	103	54	62000	360	0	500	11.0	0.0	0.0	23	0.0	0
31-mar-1993 23:59	2912	2912	KCL/POLYME	1.35	3.2	15.0	1	500/100	8.8	0.1	0.0	0.4	99	53000	60000	400	0	540	11.0	0.0	0.5	23	0.0	65
01-apr-1993 23:59	2912	2912	KCL/POLYME	1.35	3.4	15.0	1	500/100	8.7	0.1	0.1	0.4	99	52000	60000	420	0	540	11.0	0.0	0.5	23	0.0	65
02-apr-1993 23:59	0	0	KCL/POLYME	1.35	3.0	15.0	1	500/100	10.6	0.1	0.1	0.4	96	49	58000	400	0	560	11.0	0.0	0.0	24	0.0	0
03-apr-1993 23:59	0	0	KCL/POLYME	1.15	2.4	14.6	1	500/100	10.0	0.3	0.3	0.8	40	21	69000	580	0	720	8.0	0.0	0.0	22	0.0	0

Hole section: 8 1/2" WATER BASED SYSTEM

Date	Depth (m)		Mud Type	Dens (sg)	Filtrate		Filt. cake	HEHT	pH	Alcalinity			Inhib	K+	Cl-	Ca++	Mg++	Tot hard	Percentage			CBC	ASG	LGS
	MD	TVD			API (ml)	HPHT (ml)	API (mm)	Press/Temp (psi/DegC)		Ca	Mg	Na	Chem (Kg/m3)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg)	Solid (%)	Oil (%)	Sand (%)	(Kg/m3)	(sg)	(Kg/m3)
04-apr-1993 23:59	2915	2915	NaCl BRINE	1.15	2.0	14.0	1	500/100	8.7	0.3	0.3	0.6	10	20	59000	560	0	720	3.0	0.0	0.0	15	0.0	0
05-apr-1993 23:59	2945	2945	NaCl BRINE	1.15	2.0	14.0	1	500/100	8.7	0.3	0.3	0.6	10	20	59000	560	0	720	3.0	0.0	0.0	15	0.0	0
06-apr-1993 23:59	2985	2985	NaCl BRINE	1.15	2.0	14.0	1	500/100	8.7	0.3	0.3	0.6	10	20	59000	560	0	720	3.0	0.0	0.0	15	0.0	0
07-apr-1993 23:59	3025	3025	NaCl BRINE	1.15	2.0	14.0	1	500/100	8.7	0.3	0.3	0.6	10	20	59000	560	0	720	3.0	0.0	0.0	15	0.0	0
08-apr-1993 23:59	3074	3074	NaCl BRINE	1.16	2.4	10.4	1	500/100	8.7	0.3	0.3	0.5	0	0	61000	400	0	520	3.0	0.0	0.0	13	0.0	0
09-apr-1993 23:59	3166	3166	NaCl BRINE	1.15	2.8	11.8	1	500/100	8.4	0.7	0.1	0.4	0	0	65000	400	0	540	3.0	0.0	0.0	15	0.0	0
10-apr-1993 23:59	3218	3218	NaCl BRINE	1.15	2.6	11.8	1	500/100	8.4	0.7	0.1	0.4	0	0	67000	400	0	540	3.0	0.0	0.0	15	0.0	0
11-apr-1993 23:59	3248	3248	NaCl BRINE	1.15	2.6	11.8	1	500/100	9.0	1.1	0.2	0.8	0	0	63000	420	0	600	3.0	0.0	0.0	18	0.0	0

See also the report 'DAILY MUD PROPERTIES : RHEOLOGY PARAMETERS'

Hole section: 8 1/2"

WATER BASED SYSTEM

Date	Depth (m)		Mud Type	Dens [sg]	Filtrate		Filt API [mm]	Cake HPHT [mm]	HPHT Press/Temp [psi/DegC]	pH	Alkalinity			Inhib Chem [Kg/m3]	K+ [mg/l]	CL- [mg/l]	Ca++ [mg/l]	Mg++ [mg/l]	Tot hard [mg]	Percentage			CEC [Kg/m3]	ASG [sg]	LGS [Kg/m3]
	MD	TVD			API [ml]	HPHT [ml]					Pm [ml]	Pf [ml]	Mf [ml]							Solid [%]	Oil [%]	Sand [%]			
12-abr-1993	314	314	ZS/S	1.1	12	12	1	0	500/100	10.0	0.0	0.0	0.0	0	5000	440	0	6000	0	0	0	21	0.0	0	
14-abr-1993	314	314	ZS/S	1.1	12	12	1	0	500/100	10.0	0.0	0.0	0.0	0	5000	440	0	6000	0	0	0	21	0.0	0	
16-abr-1993	314	314	ZS/S	1.1	12	12	1	0	500/100	10.0	0.0	0.0	0.0	0	5000	440	0	6000	0	0	0	21	0.0	0	
17-abr-1993	314	314	ZS/S	1.1	12	12	1	0	500/100	10.0	0.0	0.0	0.0	0	5000	440	0	6000	0	0	0	21	0.0	0	
18-abr-1993	314	314	ZS/S	1.1	12	12	1	0	500/100	10.0	0.0	0.0	0.0	0	5000	440	0	6000	0	0	0	21	0.0	0	
20-abr-1993	314	314	ZS/S	1.1	12	12	1	0	500/100	10.0	0.0	0.0	0.0	0	5000	440	0	6000	0	0	0	21	0.0	78	
21-abr-1993	314	314	ZS/S	1.1	12	12	1	0	500/100	10.0	0.0	0.0	0.0	0	5000	440	0	6000	0	0	0	21	0.0	78	
22-abr-1993	314	314	ZS/S	1.1	12	12	1	0	500/100	10.0	0.0	0.0	0.0	0	5000	440	0	6000	0	0	0	21	0.0	78	
23-abr-1993	314	314	ZS/S	1.1	12	12	1	0	500/100	10.0	0.0	0.0	0.0	0	5000	440	0	6000	0	0	0	21	0.0	78	
24-abr-1993	314	314	ZS/S	1.1	12	12	1	0	500/100	10.0	0.0	0.0	0.0	0	5000	440	0	6000	0	0	0	21	0.0	78	
25-abr-1993	314	314	ZS/S	1.1	12	12	1	0	500/100	10.0	0.0	0.0	0.0	0	5000	440	0	6000	0	0	0	21	0.0	78	
27-abr-1993	314	314	ZS/S	1.1	12	12	1	0	500/100	10.0	0.0	0.0	0.0	0	5000	440	0	6000	0	0	0	21	0.0	0	
28-abr-1993	314	314	ZS/S	1.1	12	12	1	0	500/100	10.0	0.0	0.0	0.0	0	5000	440	0	6000	0	0	0	21	0.0	0	
01-may-1993	314	314	ZS/S	1.1	12	12	1	0	500/100	10.0	0.0	0.0	0.0	0	5000	440	0	6000	0	0	0	21	0.0	0	
02-may-1993	314	314	ZS/S	1.1	12	12	1	0	500/100	10.0	0.0	0.0	0.0	0	5000	440	0	6000	0	0	0	21	0.0	0	
03-may-1993	314	314	ZS/S	1.1	12	12	1	0	500/100	10.0	0.0	0.0	0.0	0	5000	440	0	6000	0	0	0	21	0.0	0	
04-may-1993	314	314	ZS/S	1.1	12	12	1	0	500/100	10.0	0.0	0.0	0.0	0	5000	440	0	6000	0	0	0	21	0.0	0	
06-may-1993	314	314	ZS/S	1.1	12	12	1	0	500/100	10.0	0.0	0.0	0.0	0	5000	440	0	6000	0	0	0	21	0.0	0	
07-may-1993	314	314	ZS/S	1.1	12	12	1	0	500/100	10.0	0.0	0.0	0.0	0	5000	440	0	6000	0	0	0	21	0.0	0	
08-may-1993	314	314	ZS/S	1.1	12	12	1	0	500/100	10.0	0.0	0.0	0.0	0	5000	440	0	6000	0	0	0	21	0.0	0	
10-may-1993	314	314	ZS/S	1.1	12	12	1	0	500/100	10.0	0.0	0.0	0.0	0	5000	440	0	6000	0	0	0	21	0.0	0	
11-may-1993	314	314	ZS/S	1.1	12	12	1	0	500/100	10.0	0.0	0.0	0.0	0	5000	440	0	6000	0	0	0	21	0.0	0	
12-may-1993	314	314	ZS/S	1.1	12	12	1	0	500/100	10.0	0.0	0.0	0.0	0	5000	440	0	6000	0	0	0	21	0.0	0	
14-may-1993	314	314	ZS/S	1.1	12	12	1	0	500/100	10.0	0.0	0.0	0.0	0	5000	440	0	6000	0	0	0	21	0.0	0	

See also the report 'DAILY MUD PROPERTIES : RHEOLOGY PARAMETERS'



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Summary

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## 1. INTRODUCTION

The aim of this work was to perform a standard petroleum geochemistry study, including maturity determination, source rock evaluation and characterization and correlation of reservoir fluids. Specific tasks were determination of geochemical GOC and OWC. It is important to note that the cores in the interval 2968.5 m to 3133 m and the cores in the  
have been stored in Markol 82 oil and that the reservoir fluids in these core sections are to a varying degree displaced by Markol 82 oil.

A list of samples analyzed is given in Table 1.2, and a list of average Rock Eval results for each formation is given in Table 1.3.

Vitrinite reflectance was measured by Geolab UK, Cramlington, UK, and spore colour data was determined by Simon Petroleum Technology, Llanduddno, Wales. Stable carbon isotope measurements of the hydrocarbon fractions and pyrolysis gas chromatography were undertaken by Geolab Nor, Trondheim, Norway. The gas sample was analyzed by IFE, Kjeller, Norway. All other analytical work, together with the interpretation of data and the compilation of this report were done at Norsk Hydro Research Center, Bergen, Norway.

All depths in this report are in m MD RKB.

**Petroleum geochemistry, well 30/9-14**

