

Well 34/7-20



Depth Drillers (mRKB)	Poros He (%)	Horizontal Air Perm. (mD)	Grain Density (g/cc)
Core No.1			
2576.00	10.10	0.08	2.71
2576.25	6.78	0.14	2.72
2576.50	6.98	0.04	2.74
2576.75	6.32	0.27	2.86
2577.00	5.91	0.04	2.73
2577.25	5.74	0.04	2.70
2577.50	31.40	3690.00	2.68
2577.75	31.80	4270.00	2.66
2578.00	30.70	2870.00	2.66
2578.25	29.30	2410.00	2.67
2578.50	29.20	1560.00	2.66
2578.75	29.80	1520.00	2.65
2579.00	30.90	2420.00	2.66
2579.25	32.40	3370.00	2.66
2579.50	31.40	3950.00	2.66
Core No.3			
2612.50	12.50	0.19	2.69
2612.75	24.70	10.60	2.71
2613.00	27.80	48.00	2.70
2613.25	30.00	110.00	2.68
2613.50	29.80	110.00	2.69
2613.75	31.20	202.00	2.68
2614.00	28.30	61.00	2.69
2614.50	31.50	224.00	2.69
2614.75	30.30	131.00	2.68
2615.00	31.00	193.00	2.68
2615.25	31.70	280.00	2.68
2615.50	25.20	30.70	2.71
2615.75	25.90	38.60	2.70
2616.00	26.70	60.10	2.70
2616.25	26.20	47.40	2.70
2616.50	27.90	78.20	2.69
2616.75	26.40	39.00	2.70
2617.00	26.70	43.70	2.70
2617.50	28.80	82.40	2.69
2617.75	25.20	15.90	2.72
2618.00	22.00	4.13	2.73
2618.50	22.90	16.40	2.72
2618.75	24.80	28.50	2.70
2619.00	22.70	15.00	2.70
2619.25	25.40	25.10	2.70
2619.50	27.80	80.70	2.69
2619.75	27.90	81.30	2.69

Well 34/7-20



Depth Drillers (mRKB)	Poros He (%)	Horizontal Air Perm. (mD)	Grain Density (g/cc)
2620.00	22.50	15.10	2.71
2620.25	28.20	99.60	2.68
2620.50	28.00	80.00	2.68
2620.75	23.70	18.80	2.70
2621.00	20.40	9.03	2.71
2621.25	25.70	41.10	2.69
2621.50	25.20	32.90	2.69
2621.75	20.90	5.68	2.71
2622.00	20.00	3.42	2.72
2622.25	21.00	10.90	2.70
2622.50	20.70	12.50	2.70
2622.75	20.10	6.24	2.71
2623.00	18.30	2.62	2.72
2623.25	19.70	6.83	2.70
2623.50	20.70	8.31	2.70
2623.75	18.00	1.04	2.73
2624.00	18.90	1.56	2.73
2624.25	17.30	0.76	2.74
2624.50	17.60	1.10	2.74
2624.75	17.80	0.92	2.74
2625.00	17.70	0.65	2.74
2625.25	16.50	0.99	2.75
2625.50	17.60	1.45	2.73
2625.75	14.10	0.29	2.75
2626.00	16.30	0.00	2.75
2626.25	17.50	0.81	2.73
2626.50	7.49	0.00	2.74
2626.75	15.90	0.37	2.73
2627.00	16.00	0.35	2.73
2627.50	18.00	0.00	2.69
2627.75	19.60	1.56	2.69
2628.00	6.19	0.04	2.73
2628.50	13.10	0.11	2.76
2629.50	30.40	442.00	2.63
2629.75	29.00	120.00	2.66
2630.00	20.80	7.35	2.65
2630.75	19.10	1.70	2.72
2631.00	20.90	1.52	2.69
2631.50	31.80	2970.00	2.62
2631.75	32.20	1090.00	2.68
2632.00	30.40	566.00	2.70
2632.25	30.70	1790.00	2.65
2632.50	32.40	1020.00	2.63
2632.75	29.90	2870.00	2.66
2633.00	30.50	2680.00	2.63
2633.50	31.30	3780.00	2.63
2633.75	31.30	6140.00	2.64
2634.00	31.10	3110.00	2.64
2634.50	31.00	3270.00	2.64
2634.75	30.80	2800.00	2.65
2635.00	30.90	2200.00	2.65
2635.50	31.40	3340.00	2.64
2635.75	30.80	1450.00	2.65
2636.00	31.30	2200.00	2.64
2636.50	30.90	2280.00	2.65



Formation Pressure Measurements Run 2a

DEPTH		Hydrostatic mud Pressure HP Gauge		Formation Pressure HP Gauge		Comments
MDmRKB	TVDmRKB	Before Psia	After Psia	Psia	Bara	Test type
2579.0	2579.0	5944.8	5947.0	-	-	Dry Test
2579.5	2579.5	5945.6	5945.6	5000.0	344.82	Normal test
2580.0	2580.0	5947.0	5947.0	5000.8	344.88	Normal test
2580.5	2580.5	5948.3	5948.3	5001.7	344.94	Normal test
2614.0	2614.0	6024.3	6024.8	5043.7	347.84	Normal test
2620.0	2620.0	6038.2	6038.5	5052.7	348.46	Normal test
2634.5	2634.5	6070.8	6071.5	5067.0	349.44	Normal test
2643.0	2643.0	6090.3	6091.0	5079.3	350.29	Normal test
2655.5	2655.5	6118.7	6119.3	5096.9	351.51	Normal test
2672.0	2672.0	6156.4	6156.8	5120.4	353.13	Normal test
2688.0	2688.0	6192.2	-	5143.4	354.71	Normal test
2718.0	2718.0	6260.4	6260.5	5185.6	357.62	Normal test
2741.0	2741.0	6312.1	6312.1	5218.2	359.92	Normal test
2757.5	2757.5	6349.1	6349.2	5242.0	361.51	Normal test
2775.5	2775.5	6390.7	6390.1	5268.4	363.34	Normal test
2579.5	2579.5	5947.8	5947.8	5001.6	344.94	Seg. Sample

Remarks:

All Pressures reported are from the HP gauge

RKB : 26 m



Formation Pressure Measurements Run 3 B/C

DEPTH <i>vd?</i>		Hydrostatic Mud Pressure HP Gauge		Formation Pressure HP Gauge		Comments
MDmRKB	<u>MDmRKB</u>	Before Psia	After Psia	Psia	Bara	Test Type
3047.0*	3046.9	7010.2	7004.7	6262.5	431.78	Limited Draw-down
3047.0	3046.9	7012.1	7003.0	6262.3	431.77	Limited Draw-down
3049.0	3048.9	7006.6	7005.5	6262.6	431.79	Normal test
3054.5	3054.4	7020.7	7016.7	6269.9	432.29	Normal test
3056.6	3056.5	7021.6	7021.8	6272.9	432.50	Normal test
3060.0	3059.9	7030.5	7020.5	6277.5	432.82	Normal test
3062.0	3061.9	7034.4	7034.1	6280.4	433.02	Normal test
3069.3	3069.2	7053.8	7049.3	6290.4	433.71	Normal test
3109.8	3109.6	7143.1	7141.3	6350.3	437.84	Normal test
3112.0	3111.8	7145.7	7148.7	-	-	Dry test
3114.0	3113.8	7155.1	7151.5	6391.4	440.67	Supercharged
3118.6	3118.4	7168.0	7161.4	6366.4	438.95	Normal test
3121.0	3120.8	7167.2	7166.4	6369.6	439.17	Normal test
3124.1	3123.9	7175.5	7174.9	-	-	Dry test
3124.7	3124.5	7171.5	7174.1	6393.8	440.84	Supercharged
3126.5	3126.3	7180.6	7182.6	6553.2	451.83	Supercharged
3131.9	3131.7	7197.8	7173.7	-	-	Lost seal
3141.1	3140.9	7221.0	7212.8	6740.5	464.74	Supercharged
3152.6	3152.4	7250.2	7250.0	-	-	Dry test

Remarks:

All pressures reported are from the HP gauge

* denotes pressure measurement from run 3 B

RKB : 26 m

Well 34/7-20



FORMATION FLUID SAMPLING			Well:34/7-20	
			Rig:Treasure Saga	
Pretest No. 16	Sample Depth: 2583.5 (mRKB)		Witness:BAa	
Run No.: 2A	Sample No.: 1	1st Chamber	2nd Chamber	3rd Chamber
Chamber volume (gals/litres)		2 3/4 gals	1 gal	
Chamber No.			RFSAC 1073	
Filling time (mins.)		23	20.0	
Shut in press. (bar)/T°C		60 *	60 *	
Chamber press. (surf bar)/T°C		0	0	
Gas volume (SCF)		0	0	
Oil volume (litres)		oil film	0	
Filtrate density (g/cc)				
Water / Filtrate (litres)		2	0.4	
Water / Filtrate PPM CL ⁻				
Mud filtrate PPM CL ⁻				
Water/Filtrate resistivity		0.05 at 16 degC	0.06 at 14 degC	
Gas composition %	C ₁			
	C ₂			
	C ₃			
	IC ₄			
	NC ₄			
	H ₂ S			
	CO ₂			
<p>REMARKS: Sampling pressure: 60 - 70 psia Probe used: Standard probe RMF = 0.043 Ohmm at 19 DEG C 1 gallon chamber opened at drill floor * sampling stopped due to very slow sampling rate</p>				

Date	Hole size	Hole depth	Mud weight	PV	YP	Gel strength	pH	Alkalinity Pf /Mf	Ca++ mg/l	Cl- mg/l	Sand %	Solids %	Mudtype
920715						/		/					SPUD MUD
920716						/		/					SPUD MUD
920717						/		/					SPUD MUD
920718	36"	392.0	1.24			/		/					SPUD MUD
920719	36"	419.0	1.78			/		/					SPUD MUD
920720	17 1/2"	419.0	1.03	13.0	18.0	12/24	11.6	/					SPUD MUD
920721	17 1/2"	880.0	1.12	10.0	38.0	14/38	9.2	.1/.2	160	11500		6.0	GEL MUD
920722	17 1/2"	1220.0	1.15	7.0	27.0	10/14	9.5	.1/.3	240	9900		7.0	GEL MUD
920723	26"	1220.0	1.17	8.0	16.0	9/18	9.2	/				9.2	GEL MUD
920724	26"	1220.0	1.18	9.0	31.0	14/22	9.3	/		16000	.3	10.0	GEL MUD
920725	26"	1220.0	1.18	7.0	31.0	12/21	9.2	/		15500	.1	9.0	GEL MUD
920726	26"	1220.0				/		/					GEL MUD
920727	17 1/2"	1223.0	1.35	16.0	6.0	/1	8.5	/.5	80	75000		12.0	KCL MUD
920728	17 1/2"	1716.0	1.45	36.0	29.0	2/3	7.6	/.7	880	90000	.3	19.0	KCL MUD
920729	17 1/2"	1845.0	1.48	38.0	25.0	2/3	8.9	.1/1.2	720	93000	.1	19.0	KCL MUD
920730	17 1/2"	1845.0	1.48	38.0	22.0	2/3	8.4	.1/.9	600	93000	.1	19.0	KCL MUD
920731	17 1/2"	1845.0	1.55	35.0	21.0	3/4	9.5	.1/.8	640	93000	.3	20.0	KCL MUD
920801	12 1/4"	2017.0	1.60	31.0	18.0	1/3	8.8	.1/1.5	680	94000	.3	22.0	KCL MUD
920802	12 1/4"	2250.0	1.65	34.0	15.0	1/3	8.8	/1.0	420	91000	.3	23.7	KCL MUD
920803	12 1/4"	2364.0	1.65	37.0	15.0	3/10	8.7	/.8	480	93000	.3	23.7	KCL MUD
920804	12 1/4"	2480.0	1.65	36.0	14.0	2/6	8.4	/1.3	540	95000	.3	24.0	KCL MUD
920805	12 1/4"	2572.0	1.65	37.0	18.0	3/13	8.6	/1.2	600	118000	.3	24.5	KCL MUD
920806	12 1/4"	2582.0	1.65	37.0	17.0	2/13	8.3	.1/1.5	440	120000	.3	24.5	KCL MUD
920807	12 1/4"	2612.0	1.65	32.0	12.0	2/13	8.3	.1/1.2	440	114000	.1	24.5	KCL MUD
920808	12 1/4"	2703.0	1.65	31.0	14.0	2/13	8.3	.1/1.4	400	111000	.1	25.5	KCL MUD
920809	12 1/4"	2809.0	1.62	42.0	18.0	4/14	8.0	.1/1.4	400	112000	.3	26.0	KCL MUD
920810	12 1/4"	2815.0	1.60	42.0	15.0	3/11	8.0	.1/1.4	400	113000	.2	26.0	KCL MUD

Date	Hole size	Hole depth	Mud weight	PV	YP	Gel strength	pH	Alkalinity Pf /Mf	Ca++ mg/l	Cl- mg/l	Sand %	Solids %	Mudtype
920811	12 1/4"	2839.0	1.60	34.0	19.0	3/10	8.1	.1/1.4	440	119000	.2	26.0	KCL MUD
920812	12 1/4"	2936.0	1.60	33.0	18.0	3/14	8.0	.1/1.3	480	122000	.1	26.0	KCL MUD
920813	12 1/4"	2364.0	1.60	35.0	19.0	3/14	7.9	.1/1.3	840	120000	.1	26.4	KCL MUD
920814	12 1/4"	2364.0	1.60	38.0	21.0	4/20	7.8	.1/1.3	520	121000	.1	26.4	KCL MUD
920815	12 1/4"	3008.0	1.60	44.0	29.0	4/20	8.1	.1/1.4	480	110000	.1	27.0	KCL MUD
920816	12 1/4"	3029.0	1.60	40.0	25.0	4/21	8.0	.1/1.5	400	132000	.3	27.0	KCL MUD
920817	12 1/4"	3106.0	1.60	41.0	25.0	4/20	8.0	.1/1.2	320	135000	.3	27.0	KCL MUD
920818	12 1/4"	3169.0	1.60	39.0	25.0	4/21	7.9	/1.3	480	141000	.1	27.0	KCL MUD
920819	12 1/4"	3177.0	1.60	40.0	29.0	5/27	7.8	/1.4	480	142000	.1	27.0	KCL MUD
920820	12 1/4"	3177.0	1.60	41.0	27.0	5/26	7.8	/1.3	480	142000	.1	27.0	KCL MUD
920821	12 1/4"	3177.0	1.60	40.0	29.0	5/28	7.9	/1.3	480	142000	.1	27.0	KCL MUD
920822	12 1/4"	3177.0	1.60	40.0	29.0	5/28	7.9	/1.4	480	141000	.1	27.0	KCL MUD
920823	P&A	3177.0	1.60	40.0	35.0	8/50	10.8	/			.2		KCL MUD
920824	P&A	3177.0	1.61	41.0	37.0	10/60	11.0	/			.1		KCL MUD
920825	P&A	3177.0	1.61			/		/					KCL MUD
920826	P&A					/		/					KCL MUD
920827	P&A					/		/					KCL MUD

Final Well Report 34/7-20

SAGA PETROLEUM A/S

6.2.2

MUD MATERIALS USED

Well : 34/7-20

Materials	Unit	36" Hole	26" Hole	17 1/2" Hole	12 1/4" Hole	Total
Agipac LV	25 kg	-	-	54	157	211
BARITE	M/T	-	81	350	237	668
BENTONITE	M	12	32	3	4	51
BacBan 111	3 kg	-	6	-	-	6
CAUSTIC SODA	25 k	1	84	-	-	85
Citric Acid	25 kg	-	-	-	19	19
KCL - sxs	25 kg	-	-	200	1480	1680
KCl Brine	m3	-	-	553	226	779
M-I B.S	55 gal	-	4	-	-	4
Poly Plus	25 kg	-	-	53	30	83
Polysal	25 kg	-	310	-	-	310
Pot.Bicarbonat	25 kg	-	10	-	80	90
Prempac EX	25 kg	-	-	400	277	677
Prempac S.Lo	25 kg	-	-	-	110	110
SODA ASH	50 k	1	8	10	30	49
Sil.Defoam	drm	-	19	-	-	19
Sodium Bicarbon	25 kg	-	15	-	19	34
XC-POLYMER	25 kg	-	9	-	-	9
Xanthan Gum	25 kg	-	24	-	-	24

Table 6.2.2 Mud Materials Used