

RFT RESULTS					WELL: 6407/7-2
RUN NO. 2A, 2B and 2C					
Run/ Test no.	Depth (mRKB)	IHP (psia)	FP (psia)	FHP (psia)	Permeability/ Remarks
2A/1	2698.5	5688.1	5251.3	5686.0	Excellent
2	2701.0	5691.4	5251.9	5691.0	Excellent
3	2706.5	5702.6	5343.7	5702.0	Poor
4	2711.0	5712.7	5257.8	5790.0	Excellent
5	2720.5	5732.6	2574.2	5732.5	Mod.-fair
6	2725.9	5743.9	5284.3	5743.6	Good
7	2729.0	5750.3	5292.1	5750.0	Good
8	2772.0	5939.8	5558.4	5840.0	Excellent
9	2780.0	5857.4	5565.1	5857.3	Excellent
10	2790.5	5879.7	5581.1	5879.0	Excellent
11	2803.5	5908.3	5585.9	5907.8	Excellent
12	2810.0	5921.2	5589.3	5921.0	Excellent
13	2815.0	5930.9	5593.2	5930.7	Excellent
14	2829.0	5960.6	5606.3	5960.0	Excellent
15	2943.0	5990.4	5620.0	5990.4	Excellent
16	2847.5	5999.4	5623.2	5999.0	Excellent
17	2864.5	6035.0	5638.9	6033.9	Good
18	2872.0	6050.5	5646.9	6050.7	Good
19	2884.0	6054.0	5700.0	6077.0	Low
2B/1	2701.5	-9999.0	5253.2	-9999.0	Excellent
2	2843.0	5998.5	5620.4	5997.8	Very good
3	2896.1	6120.6	5631.6	6118.6	Moderate
4	2907.0	6141.4	5649.5	6138.7	Moderate
5	2915.0	-9999.0	5657.1	-9999.0	Moderate
6	2925.0	6182.0	5667.4	6174.0	Moderate
2C/1	2816.2	5656.0	5595.2	5933.0	Excellent
2	2925.0	6153.0	5664.5	6145.0	Moderate
3	2987.5	6287.0	5885.0	6290.0	Low
4	3093.0	6511.0	-9999.0	6516.3	Low
Segrated sample at 2701.9m - Results from drainage on rig floor $2\frac{3}{4}$ gal chamber : 73.9 scf gas (91% C1,6.1% C2,2.5% C3) 1.85 l condensate 0.9 l filtrate 1 gal chamber : Sent onshore for PVT-analysis					
Note: Values of -9999.0 indicates missing data (tight formation or tool failure).					
/ Written: R.Hope Checked: K.O.Häger Date: 31.07.87					

DST RESULTS		WELL:6407/7-2	
DST NO.	1	2	
PERFORATED INTERVAL	2869.8- 2878.8 mRKB	2801.5 - 2819.5 mRKB	
OIL/COND.FLOW RATE (Sm <sup>3</sup> /D)	125	575	
GAS FLOW RATE (Sm <sup>3</sup> /D)	23750	105800	
CHOKE SIZE (mm)	12.7	12.7	
GOR (Sm <sup>3</sup> /Sm <sup>3</sup> )	190	184	
OIL/COND.GRAVITY (g/cc)	0.829	0.825	
GAS GRAVITY (to air=1)	0.744	0.685	
WHP (bar)	31.9	148.3	
FBHFP (bar)	116.3	308.9	
FBHSIP (bar)	364.49	346.64	
WHT (°C)	28.0	66.1	
BHT (°C)	109.0	111.2	
BS & W (%)	0	0	
CO <sub>2</sub> (%)	1.5	1.5	
H <sub>2</sub> S (ppm)	0.2	1.5	
K (mD)	5	117	
<p>Written: R.Hope      Checked: K.O.Höger      Date: July 31,1987</p>			

((( (ooo)	Daily mud properties													Date		Date							
	System : Boredata Sandnes													5/2-1987		5/2-1987							
Norsk Hydro	Well: 6407/7-2 Mud Contractor: Dresser Magcobar Data: "Mid depth" from table 3, otherwise from table 14													3		14		3					
Date	Mid. depth m,MD	Mud dens. (SG)	PV cps	YP mPa	GEL 0 10 mPa	GEL 10 mPa	Ph	100 psi (cc)	HP/HT (cc)	Cl- inn/out mg/l	Alkalinity Pf Pm Mf	Ca++ inn/out mg/l	Oil %	Sol %	H2O %	V.G. meter at 115 gr. F						Mud type	
																600	300	200	100	6	3		
																rpm	rpm	rpm	rpm	rpm	rpm		
861118	0	1.05	0	0																			Spud
861119	382	1.05	0	0																			Spud
861120	406	1.05	0	0																			Spud
861121	446	1.05	0	0																			Spud
861122	780	1.05	0	0																			Spud
861123	780	1.05	0	0																			Spud
861124	780	1.05	0	0																			Spud
861125	780	1.2	18	10	1	2	7.3			62000/62000	0.2	280/280		10		46	38						KCl Polymer
861126	1160	1.2	24	18	2	3	9.7	5.6		68000/68000	0.05	0.55	0.4	640/640	13	84	60	46	35	7	5	KCl Polymer	
861127	1517	1.3	20	13	2	3	8.7	7.5		70000/70000	0	0.5	0.4	1080/1080	14	66	46	37	27	5	3	KCl Polymer	
861128	1517	1.3	20	15	2	3	8.6	7.3		72000/72000	0	0.4	0.4	1080/1080	14	69	49	39	27	5	3	KCl Polymer	
861129	1517	1.4	22	9	2	3	10.5	8.5		70000/70000	0.2	0.9	0.6	800/800	17	62	40	28	17	3	2	KCl Polymer	
861130	1839	1.6	30	15	3	10	10.4	9.5	28	66000/66000	0.3	0.9	0.7	960/960	23	90	60	51	38	9	5	KCl Polymer	
861201	2016	1.6	33	10	3	25	10.1	9.2	26	70000/70000	0.2	0.6	0.6	600/600	24	85	52	37	24	7	6	KCl Polymer	
861202	2190	1.6	28	8	4	23	9.4	6.6	28	71000/71000	0.1	0.35	0.5	720/720	23	70	43	33	21	5	5	KCl Polymer	
861203	2230	1.6	28	8	4	25	9.2	8.2	26	73000/73000	0	0.3	0.4	1020/1020	23	73	45	33	21	8	6	KCl Polymer	
861204	2310	1.6	30	10	6	34	9.1	8.6	27	73000/73000	0	0.3	0.4	720/720	23	80	50	37	24	7	6	KCl Polymer	
861205	2409	1.6	25	7	2	22	8.7	7	23	73000/73000	0	0.25	0.5	840/840	23	65	40	30	19	4	3	KCl Polymer	
861206	2513	1.6	27	9	4	30	9.2	6.6	21	72000/72000	0	0.5	0.7	680/680	24	71	44	34	23	7	6	KCl Polymer	
861207	2550	1.6	25	8	3	27	9	6.6	22	73000/73000	0	0.35	0.7	720/720	24	65	40	31	20	6	6	KCl Polymer	
861208	2550	1.6	29	9	6	40	8.7	7.6	26	75000/75000	0	0.2	0.8	1080/1080	25	76	47	31	25	10	9	KCl Polymer	
861209	2550	1.6	29	9	5	40	8.7	7.6	26	74000/74000	0	0.2	0.8	1080/1080	24	76	47	36	25	10	9	KCl Polymer	
861210	2550	1.49	20	4	1	5	9.3	7.6		64000/64000	0.1	0.4	0.65	640/640	19	48	28	20	12	2	2	KCl Polymer	
861211	2550	1.48	21	5	1	7	9.5	6		70000/70000	0.2	0.6	0.8	640/640	19	53	32	22	13	2	2	KCl Polymer	
861212	2553	1.48	17	8	2	20	11.6	10		68000/68000	0.6	3.7	1.1	320/320	20	49	32	25	16	6	4	KCl Polymer	
861213	2582	1.48	20	8	2	14	11.6	6.1	23	69000/69000	0.4	3.3	1	200/200	19	55	35	25	16	3	2	KCl Polymer	
861214	2651	1.48	24	8	3	22	11	4.2	15	64000/64000	0.2	3.2	1	160/160	19	64	40	30	20	7	4	KCl Polymer	
861215	2680	1.48	21	8	2	18	10.9	4.4	15	63000/63000	0.2	2.5	0.9	140/140	19	57	36	28	13	4	3	KCl Polymer	
861216	2701	1.48	21	8	2	18	10.8	4.5	14.8	59000/59000	0.2	2.4	0.9	480/480	19	57	36	28	12	4	3	KCl Polymer	
861217	2731	1.48	19	7	2	18	10.9	5	15.6	59000/59000	0.2	2.8	0.9	280/280	19	52	33	26	16	3	2	KCl Polymer	
861218	2775	1.48	22	8	2	21	10.7	4.4	14	60000/60000	0.1	2	0.6	600/600	20	60	38	30	19	4	3	KCl Polymer	
861219	2805	1.48	23	8	2	19	10.7	4.5	13.5	60000/60000	0.2	2.3	0.8	640/640	20	62	39	28	18	4	3	KCl Polymer	
861220	2842	1.48	22	8	2	19	11.2	4.4	14	58000/58000	0.2	2	0.7	720/720	20	60	38	30	19	4	3	KCl Polymer	
861221	2879	1.48	23	7	2	16	10.7	4.6	14.5	56000/56000	0.2	1.9	0.7	480/480	20	60	37	29	19	4	3	KCl Polymer	
861222	2915	1.48	24	8	2	15	10.4	4.4	14.6	52000/52000	0.05	1.7	0.5	400/400	20	63	39	30	19	4	3	KCl Polymer	
861223	2994	1.48	25	9	2	21	10.1	4	14	56000/56000	0.05	1.4	0.5	440/440	20	68	43	34	22	6	5	KCl Polymer	
861224	3028	1.48	23	8	2	19	10	4	14.4	60000/60000	0.1	0.7	0.6	480/480	20	62	39	31	20	5	4	KCl Polymer	
861225	3039	1.48	23	8	2	20	10.3	4.2	14.6	59000/59000	0	1	0.5	480/480	20	62	39	30	20	5	4	KCl Polymer	
861226	3078	1.48	23	8	3	23	9.8	4.2	14.8	60000/60000	0.05	0.55	0.55	640/640	20	62	39	31	20	6	5	KCl Polymer	
861227	3182	1.48	24	9	4	29	10.1	4.2	14.6	61000/61000	0.05	0.65	0.65	580/580	20	65	41	33	22	7	6	KCl Polymer	

TABLE B-6 DAILY MUD PROPERTIES

Daily mud properties

Date  
5/2-1987

Date  
5/2-1987

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(ooo)

System : Boredata Sandnes

Well: 6407/7-2  
Mud Contractor: Dresser Magcobar  
Data: "Mid depth" from table 3, otherwise from table 14

Norsk Hydro

14

Date	Mid. depth m, MD	Mud dens. (SG)	PV cps	YP mPa	GEL		Ph	100 psi (cc)	HP/HT (cc)	Cl-inn/out mg/l	Alkalinity			Ca++ inn/out mg/l	Oil %	Sol %	H2O %	V.G. meter at 115 gr. F						Mud type	
					0 mPa	10 mPa					Pf	Pm	Mf					600 rpm	300 rpm	200 rpm	100 rpm	6 rpm	3 rpm		
861228	3276	1.48	24	10	3	26	10.2	4.2	14.6	59000/59000	0.05	0.7	0.6	520/520				67	43	34	23	7	5	KCl Polymer	
861229	3320	1.48	23	8	2	20	10	4.2	14.4	58000/58000	0.05	0.6	0.8				20	61	38	30	19	4	3	KCl Polymer	
861230	3320	1.48	23	8	2	20	10	4.2	14.4	58000/58000	0.05	0.6	0.8				20	61	38	30	19	4	3	KCl Polymer	
861231	3320	1.48	24	8	2	18	9.8	4.6	14.6	56000/56000	0.05	0.6	0.7				18	64	40	31	20	4	3	KCl Polymer	
870101	3320	1.48	24	8	2	18	9.8	4.6	14.6	56000/56000	0.05	0.6	0.7				18	64	40	31	20	4	3	KCl Polymer	
870102	3320	1.48	24	6	2	16	10.3	5	15.8	54000/54000	0.05	0.7	1				18	60	36	29	19	4	3	KCl Polymer	
870103	3266	1.49	25	6	2	21	11.8	5.4		53000/53000	0.3	1.3	2				19	62	37	31	20	5	4	KCl Polymer	
870104	3265	1.48	22	7	2	17	11.8	6.8		50000/50000	0.4	3.5	1.6				18	57	35	26	17	3	2	KCl Polymer	
870105	3265	1.48	22	7	2	18	11.8	6.8		50000/50000	0.4	3.5	1.6				18					3	2	KCl Polymer	
870106	3265	1.48	22	7	2	18	11.8	6.8		50000/50000	0.4	3.5	1.6				18	57	35	26	17	3	2	KCl Polymer	
870107	3265	1.48	22	7	2	18	11.8	6.8		50000/50000	0.4	3.5	1.6				18	57	35	26	17	3	2	KCl Polymer	
870108	3265	1.46	21	5	1	13	11.7	8.2		47000/47000	0.3	3.3	1.7				18	56	31	21	15	3	2	KCl Polymer	
870109	3265	1.48	23	6	2	14	11.6	8.4		46000/46000	0.3	3.3	1.7				18	58	35	26	17	3	2	KCl Polymer	
870110	3265	1.48	18	6	1	22	12.1	10.2		46000/46000	0.7	6	1.7				17	47	29	23	16	3	2	KCl Polymer	
870111	2861	1.48	19	7	2	17	11.9	11		46000/46000	0.5	5.6	1.1				18	52	33	24	16	4	3	KCl Polymer	
870112	2859	1.48	23	8	3	29	11.5	9.8		46000/46000	0.5	4.8	1.2				18	61	38	30	20	5	4	KCl Polymer	
870113	2819	1.48	24	8	3	30	11.4	10		46000/46000	0.5	4.8	1.2				18	64	40	31	20	5	4	KCl Polymer	
870114	2819	1.48	20	6	2	20	11.4	8.8		46000/46000	0.5	4.8	1.2				18	52	32	25	16	4	3	KCl Polymer	
870115	2819	1.48	20	6	2	20	11.4	9		46000/46000	0.5	4.8	1.2				18	52	32	25	16	4	3	KCl Polymer	
870116	2819	1.48	20	6	2	20	11.4	9		46000/46000	0.5	4.8	1.2				18	52	32	25	16	4	3	KCl Polymer	
870117	2796	1.48	20	6	2	20	11.4	9		46000/46000	0.5	4.8	1.2				18	52	32	25	16	4	3	KCl Polymer	
870118	650	0	0	0																					KCl Polymer
870119	0	0	0	0																					KCl Polymer
870120	0	0	0	0																					KCl Polymer
870121	0	0	0	0																					KCl Polymer

TABLE B-7

((( (ooo)	M u d   c o n s u m p t i o n ----- System : Boredata Sandnes	Date 23/3-1987
Norsk Hydro	Well: 6407/7-2 Mud company: Dresser Magcoabar	13

Hole size: 36  
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BENTONITE	(Mt)	39
CAUSTIC SODA	(Kg)	150
SODA ASH	(Kg)	80

Hole size: 26  
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BENTONITE	(Mt)	21
CAUSTIC SODA	(Kg)	200
LIME	(Kg)	556
SODA ASH	(Kg)	169

Hole size: 17.5  
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BARITE	(Mt)	106
POTASSIUM CL. (KCl)	(Kg)	8635
POTASSIUM CL. (KCl) Brine	(m3)	186
S.A.P.P.	(Kg)	200
PAC POLYMER REG	(Kg)	1336
XANTAN POLYMER	(Kg)	1008
Others:		
CELPOLYMER REG	(Kg)	1713
ANTISOL 3000	(Kg)	2276
CELPOLYMER S/LO	(Kg)	250

Hole size: 12.25  
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BARITE	(Mt)	438
BENTONITE	(Mt)	2
CAUSTIC SODA	(Kg)	650
POTASSIUM CL. (KCl)	(Kg)	21807
POTASSIUM CL. (KCl) Brine	(m3)	205
SODA ASH	(Kg)	880
SODIUM BICARBONATE	(Kg)	400
S.A.P.P.	(Kg)	300
PAC POLYMER SUPER	(Kg)	796
CHROME LIGNOSULFONATE	(Kg)	1194
XANTAN POLYMER	(Kg)	1049
RESINEX	(kg)	2580
Others:		
ANTISOL 3000	(Kg)	2878
CELPOLYMER S/LO	(Kg)	1289
CELPOLYMER REG	(Kg)	240
ANTISOL 100	(Kg)	1673

Hole size: 8.375  
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BARITE	(Mt)	62
BENTONITE	(Mt)	1
CAUSTIC SODA	(Kg)	564
POTASSIUM CL. (KCl)	(Kg)	3208

((( (ooo) ----- Norsk Hydro	<b>M u d c o n s u m p t i o n</b>	Date
	----- System : Boredata Sandnes	23/3-1987
	Well: 6407/7-2	
	Mud company: Dresser Magcobar	
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POTASSIUM CL. (KCl) Brine	(m3)	55
SODIUM BICARBONATE	(Kg)	445
S.A.P.P.	(Kg)	350
PAC POLYMER SUPER	(Kg)	683
CHROME LIGNOSULFONATE	(Kg)	200
RESINEX	(kg)	2283
Others:		
ANTISOL 100	(Kg)	703
ANTISOL 3000	(Kg)	329

Hole size: 1

BARITE	(Mt)	41
SODIUM BICARBONATE	(Kg)	1040
S.A.P.P.	(Kg)	250
XANTAN POLYMER	(Kg)	276

Hole size: 2

BARITE	(Mt)	41
BENTONITE	(Mt)	3
CAUSTIC SODA	(Kg)	300
SODIUM BICARBONATE	(Kg)	470
CHROME LIGNITE	(Kg)	500
XANTAN POLYMER	(Kg)	135
Others:		
ANTISOL 3000	(Kg)	23
ANTISOL 100	(Kg)	132
INHIBITOR 101	(L)	1600
DOWICIL 75	(Kg)	120
AMONIUM BISULFAT	(L)	110

Hole size: 99

BARITE	(Mt)	8
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Hole size 1: DST no 1

Hole size 2: DST no 2

Hole size 99: Temporary abandonment

## TOTAL MUD MATERIALS CONSUMPTION

<u>Product</u>	<u>No. units</u>	<u>size of units</u>
Barite	696	mt
Bentonite	66	mt
Caustic	1 864	ltr
Soda Ash	1 129	kg
Bicarbonate	2 355	kg
Pac Polymer Reg	1 336	kg
Cel Polymer Reg	1 953	kg
Antisol 30000	5 506	kg
Pac-Polymer Super	1 479	kg
Cel Polymer Super	1 539	kg
Antisol 100	2 508	kg
XC-Polymer	2 468	kg
KCl-powder	33 650	kg
KCl-brine	446	m <sup>3</sup>
Resinex	4 863	kg
Spersene (chrome-lignosulfonate)	1 394	kg
SAPP	1 100	kg
Lime	556	kg
Chrome lignite (XP-20)	500	kg
Inhibitor 101	1 600	ltr
Dowicil 75	120	kg
Amonium Bisulfat	110	ltr

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sn, POP/blu