

WDSS Report

Date: 17/03/98

PB/SKR

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Well no:	Operator:
7219/08-01 S	SAGA

Well

Coordinates :	72° 22' 28.32" N 19° 23' 40.24" E	UTM coord. :	8036356.27 N 648406.81 E
License no :	182	Permit no :	744
Rig :	ROSS RIG	Rig type :	SEMI-SUB.
Contractor :	ROSS OFFSHORE A/S		
Bottom hole temp:	145 °C	Elev. KB :	23 M
Spud. date :	92.10.05	Water depth :	370 M
Compl. date :	92.12.26	Total depth :	4588 M
Spud. class :	WILDCAT	Form. at TD :	M.JURASSIC
Compl. class :	P&A. DRY HOLE	Prod.form. :	
Seisloca :	SG-9106-449, SP 550		

Licenseses

30.000000 SAGA PETROLEUM ASA
50.000000 DEN NORSKE STATS OLJESELSKAP A.S
20.000000 ENTERPRISE OIL NORWEGIAN AS

Casing and Leak-off Tests

Type	Casing diam	Depth below KB	Hole diam.	Hole depth below KB	Lot mud eqv. g/cm3
CONDUCTOR	30	478.0	36	483.0	
INTERM.	20	927.0	26	947.0	1.31
INTERM.	13 3/8	2128.0	17 1/2	2149.0	1.49
INTERM.	9 5/8	3367.0	12 1/4	3378.0	1.98
OPEN HOLE		4611.0	8 1/2	4611.0	

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Conventional Cores

Core no.	Intervals cored meters	Recovery m	%
1	4270.0 - 4277.4	7.4	100.0
2	4550.0 - 4551.0	1.0	100.0
3	4597.0 - 4611.5	14.5	100.0

Mud

Depth	Mud weight	Visc.	Mud type
516.0	1.03	.0	WATER BASED
516.0	1.04	.0	WATER BASED
600.0	1.03	.0	WATER BASED
600.0	1.20	.0	WATER BASED
863.0	1.30	.0	WATER BASED
1018.0	1.11	13.0	WATER BASED
1480.0	1.18	19.0	WATER BASED
1683.0	1.18	20.0	WATER BASED
1808.0	1.17	20.0	WATER BASED
1917.0	1.17	22.0	WATER BASED
2086.0	1.18	20.0	WATER BASED
2126.0	1.30	24.0	WATER BASED
2149.0	1.20	22.0	WATER BASED
2318.0	1.30	25.0	WATER BASED
2480.0	1.30	25.0	WATER BASED
2526.0	1.30	25.0	WATER BASED
2588.0	1.30	26.0	WATER BASED
2696.0	1.30	26.0	WATER BASED
2764.0	1.30	26.0	WATER BASED
2840.0	1.30	26.0	WATER BASED
2895.0	1.30	21.0	WATER BASED
3072.0	1.30	24.0	WATER BASED
3161.0	1.35	25.0	WATER BASED
3222.0	1.35	25.0	WATER BASED
3249.0	1.35	25.0	WATER BASED
3345.0	1.38	26.0	WATER BASED
3378.0	1.44	28.0	WATER BASED
3423.0	1.48	27.0	WATER BASED
3559.0	1.50	28.0	WATER BASED
3745.0	1.56	28.0	WATER BASED
3883.0	1.44	30.0	WATER BASED
3950.0	1.56	29.0	WATER BASED
4005.0	1.56	29.0	WATER BASED

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4180.0	1.56	30.0	WATER BASED
4235.0	1.56	29.0	WATER BASED
4270.0	1.62	30.0	WATER BASED
4278.0	1.62	27.0	WATER BASED
4371.0	1.65	30.0	WATER BASED
4455.0	1.68	30.0	WATER BASED
4460.0	1.68	30.0	WATER BASED
4533.0	1.68	26.0	WATER BASED
4549.0	1.68	27.0	WATER BASED
4550.0	1.68	26.0	WATER BASED
4551.0	1.68	25.0	WATER BASED
4553.0	1.68	24.0	WATER BASED
4579.0	1.70	27.0	WATER BASED
4600.0	1.70	23.0	WATER BASED
4611.5	1.70	25.0	WATER BASED

Drill Stem Test (intervals and pressures)

Test no.	Test interval meter	Choke size	Pressure (psi) WHP	BTHP	FFP
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Drill Stem Test (recovery)

Test no.	Oil Sm ³ /d	Gas Sm ³ /d	Oil grav. g/cm ³	Gas grav. rel. air	GOR m ³ /m ³
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Drill Bit Cuttings and Wet Samples

Sample type	Interval below KB	Number of samples
WET SAMPLES	1020 - 4596	875
CUTTINGS	1020 - 4578	532

Shallow Gas

Interval below KB	Remarks
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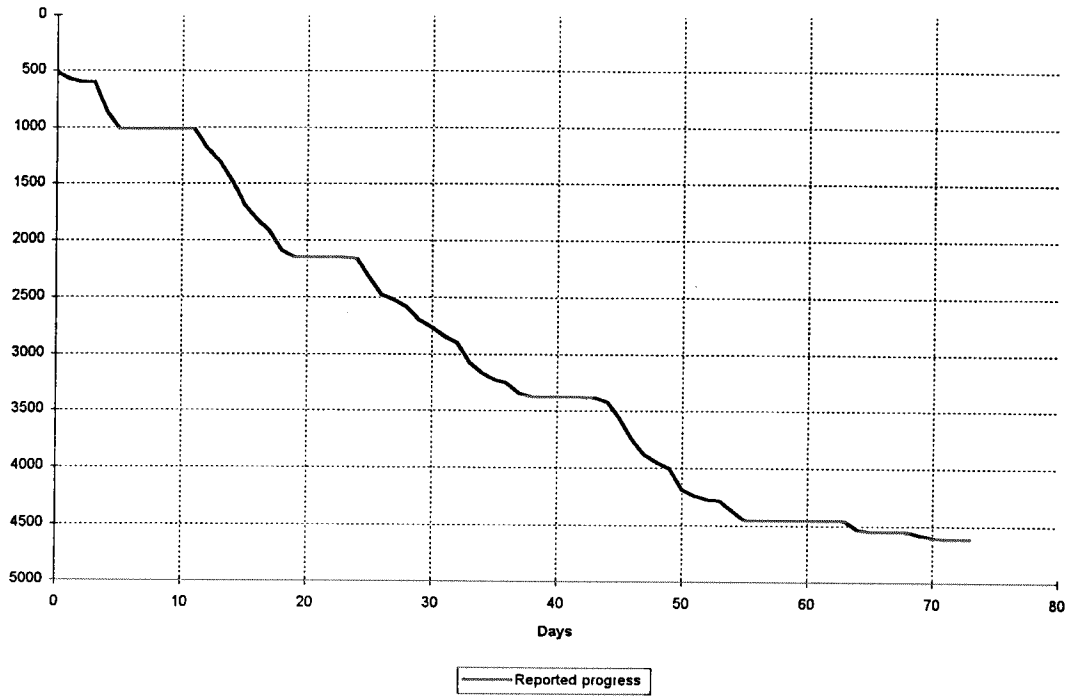
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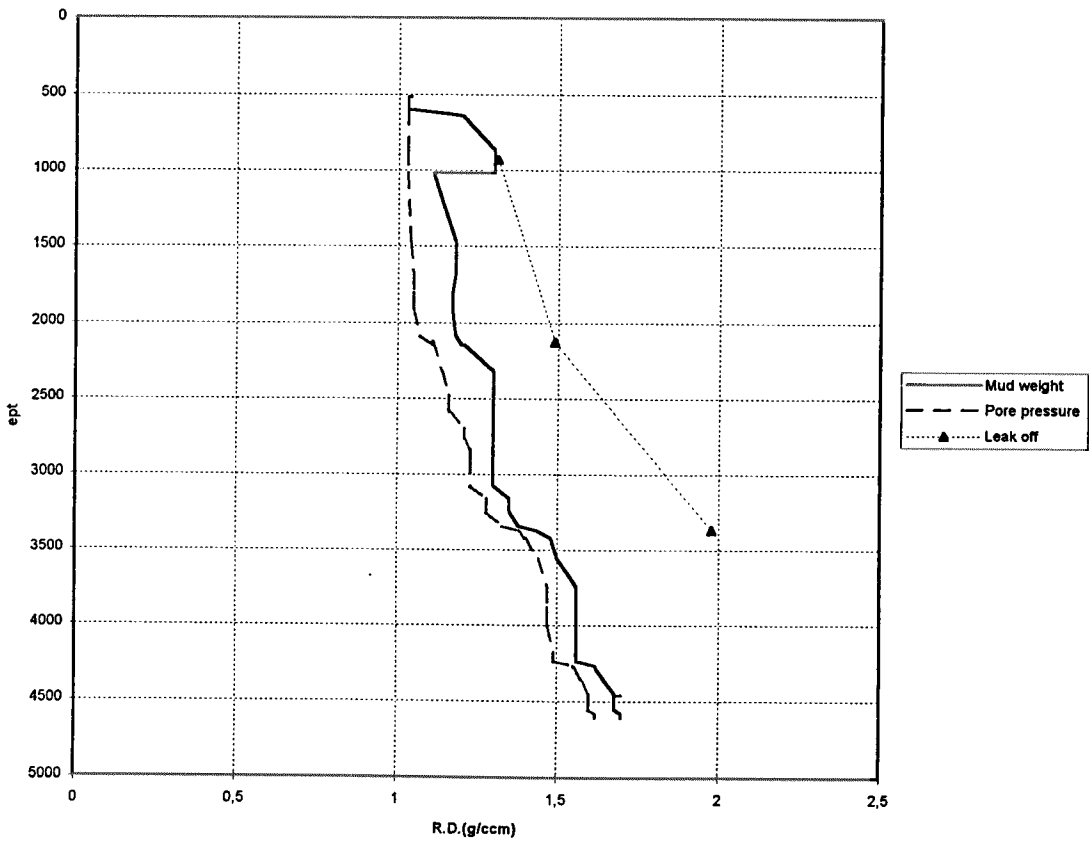
Available Logs

Log type	Intervals logged	1/200	1/500
ACBL VDL GR	890.0 - 2128.0		
ACBL VDL GR	1775.0 - 3363.0		
CALIBRATED SONIC	570.0 - 4390.0		
COMPUTED DIPLOG	2124.0 - 3353.0		
CORGUN	507.0 - 4569.0		
DIFL BHC AC GR	926.0 - 4607.0		
DIPLOG	3370.0 - 4455.0		
DLL MLL GR	4483.0 - 4543.0		
DUAL INDUCTION	476.0 - 1016.0		
FMT	4531.0 - 4588.0		
FORMATION MULTI TEST	4225.0 - 4261.0		
MASTERLOG	393.0 - 4610.0		
MWD AND CDR REAL	393.0 - 4612.0		
MWD LOG	393.0 - 4369.0		
PRESSURE EVAL	478.0 - 4611.5		
SYNTETHIC SEISMOGRAM			
TWO WAY TRAVEL TIME			
WELL SITE LITHO LOG	393.0 - 4610.0		
VSP			
Z-CDL GR	926.0 - 2133.0		
Z-DENSILOG GR	476.0 - 1010.0		
ZDL CN GR	2124.0 - 3358.0		
ZDL CNL GR	3363.0 - 4437.0		

Depth v.s. time plot for well: 7219/8-1 S



Composite plot for well: 7219/8-1 S



Main operations for well: 7219/8-1 S

Main operation: DRILLING

Sub operation:	Minutes:	Hours:	% of total:
BOP ACTIVITIES	2310	38,5	2,87
BOP/WELLHEAD EQ	3000	50,0	3,72
CASING	6000	100,0	7,45
CIRC/COND	5040	84,0	6,26
DRILL	39090	651,5	48,53
HOLE OPEN	4350	72,5	5,40
PRESS DETECTION	1050	17,5	1,30
REAM	2190	36,5	2,72
TRIP	17520	292,0	21,75
Total	80550	1342,5	100,00

Main operation: FORMATION EVAL

Sub operation:	Minutes:	Hours:	% of total:
CIRC SAMPLES	150	2,5	1,08
CIRC/COND	150	2,5	1,08
CORE	1440	24,0	10,32
LOG	9450	157,5	67,74
RFT/FIT	510	8,5	3,66
TRIP	2250	37,5	16,13
Total	13950	232,5	100,00

Main operation: INTERRUPTION

Sub operation:	Minutes:	Hours:	% of total:
FISH	60	1,0	0,33
MAINTAIN/REP	11520	192,0	63,05
OTHER	4020	67,0	22,00
WAIT	2670	44,5	14,61
Total	18270	304,5	100,00

Main operation: MOVING

Sub operation:	Minutes:	Hours:	% of total:
ANCHOR	1080	18,0	19,15
POSITION	210	3,5	3,72
TRANSIT	4350	72,5	77,13
Total	5640	94,0	100,00

Main operation: PLUG & ABANDON

Sub operation:	Minutes:	Hours:	% of total:
CEMENT PLUG	480	8,0	9,09
CIRC/COND	510	8,5	9,66
CUT	60	1,0	1,14
EQUIP RECOVERY	780	13,0	14,77
SQUEEZE	90	1,5	1,70
TRIP	3360	56,0	63,64
Total	5280	88,0	100,00

Total time used: 2061,5 Hours

WELL HISTORY 7219/8-1 S

GENERAL:

Exploration well 7219/8-1 S was drilled in the central part of block 7219/8 close to the block boundary of block 7219/7. This was the first well in new geological province and hence a true wildcat. The well was drilled updip of a rotated fault block at Upper and Middle Jurassic level. The well is located on the footwall side in relation to a major NE-SW trending fault west of the well. This Fault was probably active up to Late Hauterivian –Early Barremian age.

The primary purpose of the well 7219/8-1 S was to test the Middle Jurassic Stø Formation.

A secondary objective was to test possible sandstone in Upper Jurassic Hekkingen Formation, and finally, to test possible sandstone in a defined stratigraphic trap in the Lower Cretaceous sequences.

OPERATION:

Well 7219/8-1 S was spudded on the 5th October 1992 by the semi submersible rig "Ross Rig" and was completed 26th December 1992.

The shallowest prospect, the Cretaceous sequence, was not penetrated, as this prospect was penetrated in a distal position, and hence was most likely shaled out. The secondary Hekkingen prospect was penetrated about 720m deeper than prognosed and was only 9m thick. Pressure test indicated a tight formation. The large difference between the prognosed and actual depth was mainly due to much thicker Lower Cretaceous sequence than prognosed. The main prospect, the Stø Formation, was penetrated 450m deeper than prognosed. The well reached TD 91m MD into Stø Formation. The Sandstone with porosity in order of 5-8%, was water bearing. The relative tight sandstones of Upper and Middle Jurassic age is explained by the large maximum depth of burial in addition to present depth of burial (It is estimated an uplift/erosion of 800-1000m).

The well was plugged and abandoned as a dry hole.

TESTING:

No DST test was performed in this well.

Geological Tops.

Well: 7219/8-1 S.

	Depth m (RKB).
Nordland Group	393.0
Sotbakken Group	554.0
Torsk Fm	554.0
Nordvestbanken Group	1545.0
Kolmule Fm	1545.0
Kolje Fm	2080.0
Knurr Fm	2493.5
Teistengrunnen Group	3471.5
Hekkingen Fm	3471.5
Fuglen Fm	4328.0
Realgrunnen Group	4520.5
Stø Fm	4520.5
T.D.	4588.0