

Well no : 15/ 9-17 Operator : STATOIL

Coordinates : 58 26 44.19 N UTM coord. : 6478950 N
01 56 53.58 E 438602 E

Licence no : 046 Permit no : 356

Rig : WEST VANGUARD Rig type : SEMI-SUB.

Contractor : A/S SMEDVIK DRILLING CO.

Bottom hole temperature : 98 deg.C Elev. KB : 22 M

Spud. date : 82.12.09 Water depth : 86 M

Compl. date : 83.03.30 Total depth : 3120 M

Spud. class : WILDCAT Form. at TD : TRIASSIC

Compl. class : SUSP. GAS/COND. DISC. Prod. form :

Seisloca : 610 - 168 SP 93

LICENSEES

40,000 ESSO NORGE A.S
10,000 NORSK HYDRO PRODUKSJON A.S
50,000 DEN NORSKE STATS OLJESELSKAP A.S

CASING AND LEAK-OFF TESTS

Type	Casing diam.	Depth below KB	Hole diam.	Hole depth below KB	Lot mud eqv. g/cm ³
CONDUCTOR	30	169,0	36	169,0	
SURF.COND.	20	500,0	26	519,0	1,41
INTERM.	13 3/8	1120,0	17 1/2	1130,0	1,83
INTERM.	9 5/8	2601,0	12 1/4	2616,0	1,75
LINER	7	2948,0	8 1/2	2950,0	1,80
OPEN HOLE			6	3120,0	

CONVENTIONAL CORES

Core no.	Intervals cored meters	Recovery		Series
		M	%	
1	2382.0 - 2392.0	10.0	100.0	LOWER PALEOCENE
2	2392.0 - 2407.5	15.5	100.0	LOWER PALEOCENE
3	2407.5 - 2425.5	18.0	100.0	LOWER PALEOCENE
4	2425.5 - 2441.1	15.6	100.0	LOWER PALEOCENE
5	2442.0 - 2450.3	3.8	45.8	LOWER PALEOCENE
6	2715.0 - 2724.1	9.1	100.0	JURASSIC/TRIASSIC
7	2724.1 - 2742.0	17.9	100.0	JURASSIC/TRIASSIC
8	2742.0 - 2757.9	15.9	100.0	TRIASSIC
9	2757.9 - 2775.0	17.1	100.0	TRIASSIC
10	2811.0 - 2829.2	18.2	100.0	TRIASSIC

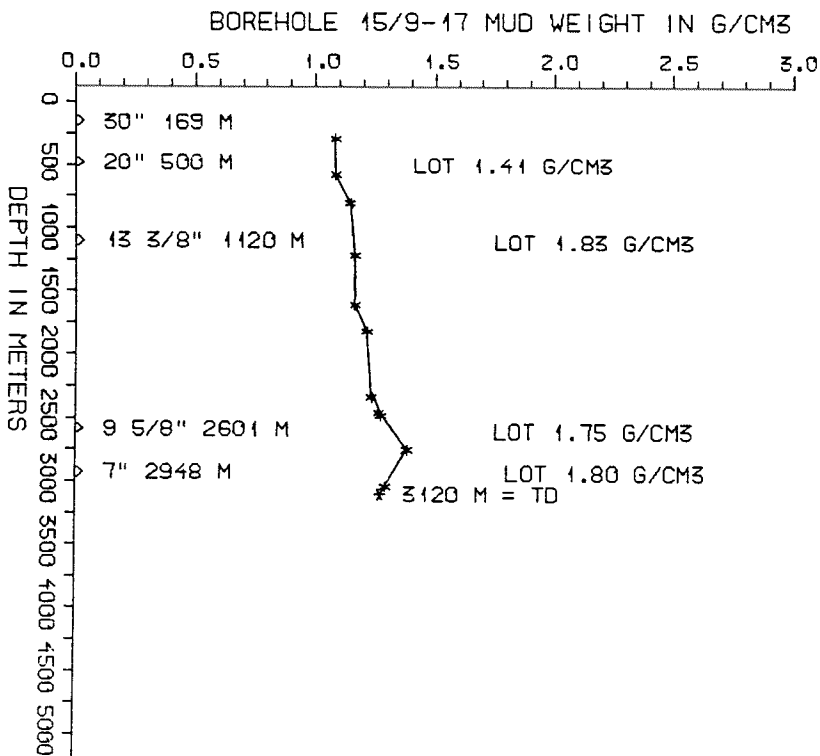
DRILL STEM TEST									
TEST NO	DEPTH BELOW KB	CHOKE SIZE mm	RECOVERY					PRESS. (psi)	
			COND. Sm ³ /d	GAS M Sm ³ /d	OIL GRAV. g/cm ³	GAS GRAV. rel. air	GOR m ³ /m ³	FSIP	WHP
			1	2802 - 2814	19.05	210	590		
2	2726 - 2741	19.05	205	570			2780		
3	2381 - 2414	19.05	280	525			1875		

AVAILABLE LOGS			
LOG TYPE	INTERVALS	1/200	1/500
ISF BHC GR	169 - 514	x	x
ISF BHC	500 - 1132	x	x
ISF BHC MSFL	1121 - 2614	x	x
ISF BHC MSFL	2602 - 2949	x	x
ISF BHC MSFL	2951 - 3118	x	x
LDL CNL	500 - 1022	x	x
LDL CNL	1121 - 2615	x	x
LDL CNL	2602 - 2950	x	x
LDL CNL	2952 - 3119	x	x
DLL MSFL	2330 - 2490	x	x
DLL MSFL	2680 - 2910	x	x
CDM	1121 - 2613	x	
CDM	2602 - 2950	x	
CDM	2951 - 3120	x	
CDM AP	1121 - 2613	x	x
CDM AP	2603 - 2950	x	x
CDM AP	2953 - 3119	x	x
CDM AP (GEODIP)	2320 - 2500	1:40	
CDM AP (GEODIP)	2687 - 2896	1:40	
NGS	1121 - 2605	x	x
NGS	2602 - 2941	x	x
NGS	2952 - 3108	x	
CBL VDL	250 - 1121	x	
CBL VDL CCL	990 - 2602	x	
CBL VDL CCL	2484 - 2875	x	
RFT	2379 - 2477		
RFT	2716 - 2888		
MUD	170 - 3120		x
VELOCITY	169 - 3118	1:1000	x
(Air Gun Well Velocity and Calibr. log data		1stk)	
(Synthetic Seismogram Marine, 10 cm/s		1stk)	
(Synthetic Seismogram, 10 cm/s		2stk)	

MUD PROPERTIES			
DEPTH BELOW KB m	WEIGHT g/cm ³	FUNNEL VISC. sec	FILTRATE LOSS cm ³
210	1.05		
500	1.05		
725	1.11		
1135	1.13		
1535	1.13		
1740	1.18		
2250	1.20		
2375	1.23		
2400	1.24		
2665	1.35		
2960	1.26		
3010	1.25		
3120	1.25		

DRILL BIT CUTTINGS AND WET SAMPLES		
SAMPLE TYPE	INTERVAL BELOW KB	NUMBER OF SAMPLES
CUTTINGS	170 - 3120	710
WET SAMPLES	170 - 3119	440

SHALLOW GAS	
DEPTH INTERVAL m KB	REMARKS
	NONE



WELL HISTORY - 15/9-17

GENERAL:

The wildcat 15/9-17 was drilled to test possible hydrocarbon accumulations in the Paleocene Heimdal Formation and in Jurassic/Triassic sandstones. Both the Heimdal Formation and the Mesozoic sandstones contained gas.

OPERATIONS:

The well was spudded 09.12.82 by the semi-submersible rig West Vanguard. A 12 1/4" pilot hole was drilled down to 519 m, but no indications of shallow gas was found. Bad weather caused some delay. 10 cores were taken, 5 from the Heimdal Formation and 5 from the Mesozoic sandstones. The well was drilled using waterbased mud.

TESTING:

Three DST's were performed, two in the Jurassic/Triassic sandstones and one in the Paleocene sandstones. All three tests produced gas and condensate.

GEOLOGICAL TOPS
WELL 15/9-17

	Depth m (RKB)
Nordland Group	107,0
Utsira Fm	832,0
Hordaland Group	1250,0
Rogaland Group	2203,0
Balder Fm	2203,0
Sele Fm	2253,0
Lista Fm	2304,0
Montrose Group	2378,0
Heimdal Fm	2378,0
Chalk Group	2486,0
Ekofisk Fm	2486,0
Tor Fm	2491,0
Hod Fm	2612,0
Plenus Marl Fm	2678,0
Cromer Knoll Group	2704,0
Vestland Group	2712,0
Triassic	2741,0
Skagerak Fm	2741,0
Smith Bank Fm	2847,0
TD =	3120,0