Encl.1

6407/9-9 & 6407/9-9 T2

COMPLETION LOG

SCALE 1:500

AREA: TRONDELAG PLATFORM

LICENSE: PL 093

RIG: MAERSK JUTLANDER

TOTAL DAYS: 16.88

WATER DEPTH: 248m

DRILLERS T.D.: 1920m

LOGGERS T.D.: 1914.6m

STATUS: P&A GAS/OIL

Latitude	Longitude
64.10363698	7.69363703
X Coordinate	Y Coordinate
437026.50	7142018.50

SPUD DATE: 22 JUNE 1999 00:00

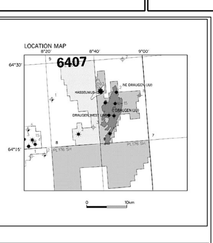
T.D. REACHED: 30 JUNE 1999 00:00

RIG RELEASED: 06 JULY 1999 04:30

ELEVATION: 23.20m

T.D. (Fm): TILJE FM.

MAX. DEVIATION: (8.2) deg AT(676m)



OPERATOR: A/S NORSKE SHELL

PARTNERS: NORSKE SHELL 16.2%
BP/AMOCO 18.36%
STATOIL/SDFI 57.88%
NORSK CHEVRON 7.56%

OPS. GEOLOGIST: JONNY GUDDINGSMO

WELLSITE GEOLOGIST: RICHARD HOWES

PREPARED BY: GAVIN DU PLESSIS

CONTRACTORS:

DRILLING CONTRACTOR: MAERSK CONTRACTORS NORGE

MUD LOGGING: SPERRY-SUN

MUD ENGINEERING: BAROID

WIRELINE LOGGING: SCHLUMBERGER WIRELINE

MWD/LWD: ANADRILL SCHLUMBERGER

CORING: DBS/RESLAB

LITHOLOGY KEY

- WATER.
- CLAYSTONE.
- SILTY CLAYSTONE.
- CALC SANDSTONE.
- PYRITIC CLAYSTONE.
- GLAUC CLAYSTONE.
- SANDY CLAYSTONE.
- MARL.
- CARB SHALE.
- SANDSTONE.
- PYRITIC SANDSTONE.
- ARGIL SANDSTONE.
- MICA SANDSTONE.
- SILTY SANDSTONE.
- GLAUC SANDSTONE.
- SANDY SILTSTONE.

OTHER SYMBOLS

CASING SHOE

PRESSURE

SIDEWALL SAMPLES

OIL SHOWS

TVD mss: True Vertical Depth meters subsea
ms TWT: milliseconds Two Way Time

SIDE WALL CORE DESCRIPTIONS

	Sample Number	Base Depth	Recovered Amt	Lithology Desc
Side: 1F	SAMPLE: 1	1886.00	23	Sst: lt gy, sft, fri, fSU-fML, also m-crsUL, (argl-rnd, srt, wk, calc, cmt, (org), (glc), (pyr), (carb), (mic), gd vis por, no shows
Side: 1F	SAMPLE: 2	1885.50		EMPTY
Side: 1F	SAMPLE: 3	1884.00	23	Sst: Qtz lt gy, fn, vf-f, occ m &crs, (ang)-(rnd)mod srt, (calc), org mtrx, mic, com carb stks m/assoc pyr, pr-mod estpor
Side: 1F	SAMPLE: 4	1883.00	22	Sst: mlt-llgy, pred f, loc vf, (arg)-(rnd), srt, wk cmt, org mtrx i.p, mic, (carb strks, (glc), org/carb stiks & cross lams, mod-gd vis por, no shows, Clst: thin strks, brn blk, frm, abnt dissem pyr, carb, non calc
Side: 1F	SAMPLE: 5	1882.00	36	Sst: Qtz, m lt gy, fri, slt, vf-f, (argl rnd, srt, (calc)) cmt, org i.p, (glc), f carb, mic, (pyr), slt, core w/distinct 0-5cm thickbed of carb/coaly matrial occ w/ass pyr
Side: 1F	SAMPLE: 6	1880.00	33	Sst: m lt -lt gy, fri, vf-f, occm, slt, (wk)silic/calc cmt, loc carb mtrx, mic, pyr, coaly/pyr intercal, glc, loc org, mod-gd vis por, no shows
Side: 1F	SAMPLE: 7	1878.00	32	Clst: dk olv gy, mod frm, homog, (wxy)), mmic, f carb i.p, (slt), non calc
Side: 1F	SAMPLE: 8	1870.00	30	Clst: olv gy, mod frm, homog, ((wxy)), (swell), (mmic), f carb mod, non calc
Side: 1F	SAMPLE: 9	1860.00	28	Clst: dk olv gy, mod frm, homog, com mmic, f carb deb, (slt), dissem (pyr), non-(calc)
Side: 1F	SAMPLE: 10	1850.00	18	Clst: dk gy, frm, slt i.p, mmic, f carb deb, non-(calc), Sst: m dk gy, frm-crmb, slt-f, srt, (wk), silic cmt, mmic, tr carb, grd to sdy sltst, pr vis por, no shows
Side: 1F	SAMPLE: 11	1844.00	25	Clst: m dk gy-olv gy, mod frm, homog, swells w/dil Hcl, (mmic), dissem pyr, fcarb deb, non calc
Side: 1F	SAMPLE: 12	1838.00	22	Sst: Qtz, lt gy, f-m, , fabric of Sst destroyed by impact, inf silic wk cmt, non calc, fri, glc, mic flks, (carb) deb, xln pyr, i.p, mod-gd est por, no shows
Side: 1F	SAMPLE: 13	1833.00		EMPTY
Side: 1F	SAMPLE: 14	1828.50	20	Sst: Qtz, fri, f-c, fabric of core destroyed, srt, (wk) inf silic cmt, non calc, glc, mic, carb deb, com pyr, no shows
Side: 1F	SAMPLE: 15	1826.00		LOST
Side: 1F	SAMPLE: 16	1827.50	20	Sst: Qtz, ll-lt gy, fri, fSU-mSL, (ang)-(rnd), srt, wk cmt, (glc), (pyr), l carb strks & deb, musc mic flks, non calc, gd-gd vis por, no shows
Side: 1F	SAMPLE: 17	1824.50	11	Sst: Qtz, m lt-lt gy, hd, m -crsSU, clr-trnsl G, loc mlky wk, lt gy&opq, (arg)-(rnd), srt, strg calc cmt, (carb), no vis por, no shows
Side: 1F	SAMPLE: 18	1822.00	29	Clst: dk gy, mod frm, homog, f carb mat, (micropyr), mmic, (slt), non calc
Side: 1F	SAMPLE: 19	1819.00	22	Clst: dk gy-dk olv gy, frm, homog, com micropyr, slt-slt i.p, non calc, vf carb mat
Side: 1F	SAMPLE: 20	1814.50		LOST
Side: 1F	SAMPLE: 21	1801.50	20	Sst: arg, olv gy, (mtl), frm, (fri), pred vf, (arg)-rnd, srt, slt, (wk) calc cmt, abnt org mtrx, glc, mic, vf carb mat, ((calc)), (micropyr), pr vis por, no shows
Side: 1F	SAMPLE: 22	1788.50	23	Sst: arg i.p, m gy w/ dk gy mm lams, frm, crmb, pred vf, (ang)-rnd, srt, ((wk)) calc cmt, org mtrx i.p, glc, mmic, (pyr), f carb mat, mod-gd vis por, no shows
Side: 1F	SAMPLE: 23	1782.50	25	Sst: m-m dk gy, frm, crmb, pred vf, srt-srt, org mtrx, occ pyr cmt, pyr&org lams, vf carb, glc, mic, pr vis por, no shows, Sst:thin bd (4mm), dk gy, frm, micropyr, mmic, non calc
Side: 1F	SAMPLE: 24	1778.00		MISFIRE
Side: 1F	SAMPLE: 25	1773.00	23	Sst: Qtz, ll-lt gy, fSU-mSL, (arg)-rnd, srt, sl calc cmt, tr mic (blc)&(pyr), mod-gd est por, no shows
Side: 1F	SAMPLE: 26	1772.00	25	Sst: Qtz, m lt-lt gy, fri, fSU-mSL, (arg)-(rnd), srt, wk cmt, grnsppt, lr carb strks, (mic), glc, (pyr), sample affected by impact, mod-gd inf por, poss v sl show?
Side: 1F	SAMPLE: 27	1766.50		MISFIRE
Side: 1F	SAMPLE: 28	1764.50		MISFIRE
Side: 1F	SAMPLE: 29	1762.00		MISFIRE
Side: 1F	SAMPLE: 30	1755.50		MISFIRE
Side: 1F	SAMPLE: 31	1752.50	22	Sst: Qtz, mlt gy, fri, f-crs SU, pred m-crs, loc gran, (arg)-rnd, (srt), (wk) inf silic cmt, (glc), (mic), lithic frags, non calc, poss (sl) show
Side: 1F	SAMPLE: 32	1751.00	18	Sst: Qtz, lt gy, fri, pred m-crs, occ crs-gran G, clr-trnsl&occ opq, (arg)-(rnd), srt, pr srt, (arg), glc, (musc), (carb) deb, gd est por, no show
Side: 1F	SAMPLE: 33	1749.00		LOST
Side: 1F	SAMPLE: 34	1747.50	22	Sst: lt gy- lt olv gy, fri, f-f & crs-crs, bimodal, (ang)-rnd, srt, pr cmt, ((calc)), mgy org ssl strks, mic, lithic frags, (glc), loc org & slt, gd vis por, mod sweet HC od, loc lt brn o stn, pr-mod, show
Side: 1F	SAMPLE: 35	1746.00	24	Sst: lt gy, fri, pred vf, occ l G, (arg)-(rnd), srt, pr cmt, org mtrx i.p, mmic, slt, (glc), micropyr, non calc, com brn blk org/carb, mic thicklams, var pr-mod vis por, mod HC od, sl o stn, pr show
Side: 1F	SAMPLE: 36	1745.50	23	Sst: Qtz, sft, fri, pred vf, occ f, (arg)-(rnd), srt, pr cmt, mic, (glc), carb deb, (arg), loc f dk gy carb/mic lams, gd-gd por, No-(tr)show
Side: 1F	SAMPLE: 37	1743.00	25	Sst:m lt gy-olv gy, sl lt yel brn O stn) P, fri, f-f, occ m, srt, (argl-(rnd), spher, pr cmt, (arg), glc, thi carb strks/deb, mic, ((calc)), gd-gd,vis por, mod sweet HC od, ptchy lt yel brn o stn, mod show
Side: 1F	SAMPLE: 38	1741.00	23	Sst:Qtz, m lt gy, fri, f-f, (arg)-(rnd), srt, pr cmt, (glc), tr carb & mic, lithic frags, gd-gd vis por, no show
Side: 1F	SAMPLE: 39	1740.00	27	Sst: Qtz, m lt gy, fri, pred f, occf, (arg)-rnd, srt, pr cmt, f carb mat, mic, (glc), slt, org].P, loc mic org Sst strks, gen gd-exel vis por, loc sl pr show
Side: 1F	SAMPLE: 40	1739.00	24	Sst: m-m lt gy, fri-loc fri, pred f, slt, (arg)-rnd, srt, pr cmt, org mtrx].P, glc, mic lams, f carb deb, pr-mod por, sl HC od, pr show
Side: 1F	SAMPLE: 41	1738.00	21	Sst: m lt gy, fri, frm (.P, pred f-f, slt, (arg)-(rnd), srt, pr cmt, loc inf silic cmt, calc), (glc), mic, loc mic/org lams, carb deb, pr-mod vis por, sl HC od, gen no shows
Side: 1F	SAMPLE: 42	1736.50	29	Sst:Qtz, m lt gy, fri, pred f-f, (slt), (arg)-rnd, srt, pr cmt, (glc), mic, (carb) deb, gd-gd vis por, sl HC od, pr show
Side: 1F	SAMPLE: 43	1735.00	25	Sst: m lt gy, fri-fri, f-f, (arg)-(rnd), srt, pr cmt(silic?), slt, (arg), f glc, dk gy mic lams, (micropyr), carb deb, gen n calc, pr-mod est por, no show
Side: 1F	SAMPLE: 44	1733.00	22	Sst: Qtz, lt gy, sft, fri, f-f, (arg)-(rnd), srt, pr cmt, slt, (arg), glc, mic, thin dk gy mic lams, tr carb mat, gd vis por, no show
Side: 1F	SAMPLE: 45	1732.50	25	Sst: lt gy, slt, fri, f-mSL, clr-trnsl (rnd)-(arg), srt, pr cmt, ((calc)), (slt)&(arg), glc, lithic G, gd-gd vis por,no shows
Side: 1F	SAMPLE: 46	1730.50	24	Sst:Qtz, m lt gy-lt olv gy, slt, fri, pred f, loc f, occ m-crs, (arg)-(rnd), srt, pr cmt, (slt), (arg), mic, glc, lithic frags, gd-vgd vis por, sl HC od, no vis show
Side: 1F	SAMPLE: 47	1729.20	20	Sst: olv gy-lt olv gy, loc m dk gy, (mtl), pred f-f, occ m-crs G, (arg)-rnd, srt, slt, org].P,glc, mic, carb deb, Bioturb?, gd vis por, sl HC od, no vis shows
Side: 1F	SAMPLE: 48	1727.50	17	Sst: org, m dk gy, (lt), slt-f, srt, org mtrx, slt, (glc), mic, com carb deb, pr est por, no show
Side: 1F	SAMPLE: 49	1725.50	25	Clst: gy blk, sft-mod frm, fiss, abnt mmic, com f carb mat, loc len Sst, slt, non calc, loc grd to sltst, also (swell
Side: 1F	SAMPLE: 50	1724.50		LOST
Side: 1F	SAMPLE: 51	1719.00	35	Clst: m gy, mod frm, (plus), homog, com mmic & f carb deb, (slt), non-(calc)
Side: 1F	SAMPLE: 52	1706.00	23	Sltst:dk gy, mod frm, mmic, com vf carb/mic strks, tr pyr f aren, non calc
Side: 1F	SAMPLE: 53	1699.50	23	Clst:olv blk, frm, com f dissem pyr, abnt f carb deb, f carb/mmic lams, slt].P, gen non calc
Side: 1F	SAMPLE: 54	1693.00		MISFIRE
Side: 1F	SAMPLE: 55	1680.00	26	Clst: gy blk, frm-mod hd, (fiss), f(carb), (micropyr), (mmic), non calc
Side: 1F	SAMPLE: 56	1665.00	20	Clst: dk gy, frm-mod hd, f carb deb, micropyr, (mmic), (slt), non calc
Side: 1F	SAMPLE: 57	1650.00		MISFIRE
Side: 1F	SAMPLE: 58	1633.00		MISFIRE
Side: 1F	SAMPLE: 59	1630.00		MISFIRE
Side: 1F	SAMPLE: 60	1629.00		MISFIRE

MDT RESULTS (pressure in psi)

Dst Rft Test No	Recorder Depth	Formation Pressure	Remark
101	1728.90	2525.06	Good Test, Good mobility 345mD
102	1731.80	2525.61	Good Test, Good mobility 212mD
103	1733.40	2526.03	Good Test, Good mobility 277mD
104	1736.10	2526.65	Good Test, Excellent mobility 839mD
105	1739.00	2527.51	Good Test, Good mobility 173.6mD
106	1741.00	2528.00	Good Test, Good mobility 440mD
107	1742.50	2529.31	Formation Pressure slightly unstable +/-0.01 Bar
108	1742.50	2528.95	Good Test, stabilised out after 4mins 20secs. Mobility-43mD
109	1744.00	2530.28	Good Test, Good mobility 377mD
110	1746.50	2532.60	Good Test, Good Mobility 211mD
111	1749.30	2535.70	Good Test, Poor Mobility 3.8mD
112	1752.70	2540.07	Good Test, Poor mobility 13mD
113	1754.20	2549.83	Very Poor Permeability, abort test atfter 10 min build up, unstable,mobil=0.7mD
114	1753.70	2544.82	Poor Permeability, 5 min build up, slightly unstable
115	1774.80	2579.20	Good Test, Good mobility 787mD
116	1777.30	2582.71	Good Test, Very good mobility 503mD.
117	1736.10	2526.67	Mobility 193mD. Losing seal on pump, abort sampling
118	1736.10	2530.25	Initial mobility was poor. Retracted & correlation was checked before reseting
119	1736.10	2526.92	Mobility 243mD. Start clean up, lose seal on pump
120	1736.10	2527.63	Mobility 48mD poor permeability, move probe up 0.5m to improve pretest
121	1735.60	2527.50	Poor mobility of 21.8mD, reset probe and observed 106.7mD
201	1736.10	2451.63	Run 1D, formation sampling ops. Mobility 375mD (1gallon + 3x250cc)
301	1746.50	2507.05	Run 1E, formation sampling ops. Mobility 282mD(1gallon + 3x250cc)

BIT RUN DATA

Bit No	Top Depth	Base Depth	Bit Size	Manufacturer	Serial No	Bit Interval	Acc hrs	Penetration Rate	Bit Weight	Rotary Rpm	Remark
1	245	365	18	DBS S35J	120298	94	20	5	30000	100	3-3-NO-A-E-I-NO-TD
2	245	365	26	DBS S35J	711630	94	0	0	30000	100	--NO-A-E-]-NO-BHA
3	365	1065	12	DBS XP 32	734600	700	14	48	30000	120	1-1-NO-A-E-I-NO-TD
4	1065	1930	8	DBS FS256	5996327	865	19	46	25000	170	------- BIT/BHA LOST DOWN HOLE
5	1580	1920	8	DBS S44GF	734492	340	21	16	40000	265	2-4-FC-A-E-I-EC-TD USED FOR SIDETRACK

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