MOBIL EXPLORATION NORWAY INC.
FINAL GEOLOGICAL SUMMARY
33/9-5 WELL

July, 1976
Stavanger, Norway

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NORWAY OFFSHORE

STATFJORD FIELD

APPRAISAL WELL 33/9-5

WELL DATA

Well Name:	33/9-5
Location:	Latitude 61° 20' 47.87" N
	Longitude 01° 56' 51.70" E
Classification:	Appraisal
Drilling period:	
Spudded:	27 October, 1975
Plugged and Abandoned/Rig released:	1 January, 1976
KB Elevation:	25 meters
Water Depth:	151.8 meters
Rig:	Ross
Status:	Plugged and abandoned
Total Depth:	
Planned:	3050 meters
Actual:	3157 meters
Objective:	Middle Jurassic Brent and Lower Jurassic Statfjord Formations
Cost ($):	
Planned:	6,250,000
Actual:	5,105,000*

*Charges as of 31 May 1976

INTRODUCTION

The Statfjord Field appraisal well 33/9-5 was spudded on 27 October, 1975. After reaching a total depth of 3157 meters (KB), the well was plugged and abandoned as an oil well in the Brent Formation on 1 January, 1976.

The 33/9-5 well was drilled as an appraisal well to further evaluate the Brent Formation in an area 2.7 kilometers north of the 33/9-4 well. At this location the well was designed to deliniate the northern extent of Statfjord Field; provide additional reservoir information for platform development planning; add velocity data for seismic depth determination and provide information on various seismic mapping horizons. At completion the well successfully fulfilled all of these objectives.

The well was positioned to penetrate the upper Brent reservoir, the primary target, at -2522m (SS), 62 meters above the known field water level. The Statfjord Formation was prognosed as a secondary objective.

RESULTS

Figure 1 is a comparison of the prognosed structural horizon penetration versus actual results of the 33/9-5 appraisal well. The objective Brent Formation was encountered at -2579.8m (SS), 57.8m low to prognosis. As with other Brent Formation oil wells in Statfjord Field, high total gas readings (70,000ppm) were encountered when the reservoir was penetrated. Sand cuttings had good brown oil stain, bright yellow fluorescence and blue white flash cut. After drilling 4.4 meters below the reservoir top, 19 meters of core were cut and 16.85 meters (88.7%) were recovered. A comparison of the lithology, core porosity analysis and wireline logs resulted in a 2.3 meter upward adjustment of the original core depth. Thus the observed core depth of 2611.5 - 2628.35m (KB) has been adjusted

to 2609.2 - 2626.05m. Using the field pay cut off value of 65% water saturation, the oil/water contact depth as measured from the CPI log is -2591.4 meters (SS) (2616.4 meters KB) which is 7.3 meters lower than the main field water level. The resulting gross pay interval is 11.6 meters (38 feet). None of the pay interval was eliminated by the CPI field cut off values of 65% water saturation, 40% v-clay or 12% porosity. Average CPI measured porosity in the pay section is 22.1% and water saturation is 37%.

Four Schlumberger wireline formation tests were recommended after logging; however, due to poor test results, seven tests were finally taken (see Table 1 for FIT results summary). Two tests were taken below the Brent Formation oil/water contact; one test was placed in the transition zone and four tests were taken in the oil saturated section. Valuable pressure data was obtained from these tests, but no reliable water salinity data could be measured because the samples were contaminated with mud filtrate. Only one good PVT sample was obtained (FIT No. 7).

Before drilling the 33/9-5 well, velocity trend surface mapping indicated the velocity to the objective horizons in the area of the well to be slower than the velocity in the 33/9-4 well. However, the resulting velocity survey taken in the 9-5 well indicated much faster velocity than the 9-4 well.

Because the well location was picked in an area of structural nosing to the northeast and downthrown to a number of faults, the Statfjord Formation was expected to be penetrated at approximately 56 meters lower than the known field oil/water contact established in the 33/12-2 well.

However, since the faults could possibly have sealing capacity, the Statfjord reservoir was prognosed as a secondary objective. On penetration the Statfjord Formation was found water wet. Results of the Statfjord Formation in the 9-5 well does not necessarily eliminate the possibility of sealing faults in the field. As usual the Jurassic/Triassic stratigraphic contact was gradational. At total depth Robertson Research reported questionable Triassic age sediments (see enclosed Robertson Research Summary).

STRATRIGRAPHY/STRUCTURE

The stratigraphic units penetrated in the 33/9-5 well were generally as predicted. However, some seismic horizons were encountered at minor variance to the pre-drilling prognosis. A comparison of the prognosed to observed stratigraphy is shown in Figure 1.

The usual field Tertiary and Cretaceous section of claystones, mudstones, and siltstones with minor sandstones was penetrated. The good tuffaceous Paleocene marker was also present.

The well drilled 9.3 meters of Lower Cretaceous Barremian Limestone; a thin, 2.7 meters, Hot Shale and a relatively thick Cold Shale (46.4 meters as compared to 13.5 meters in the 33/9-4 well). Robertson Research age dated the "Cold Shale" as Middle Jurassic, however the "Hot Shale" which has been identified as Upper Jurassic in other Statfjord Field wells was apparently too thin for age determination (see enclosed Final Composite Log and Robertson Research Summary Log).

All of the five (5) reservoir zone units of the Brent Formation appear to be present in the 33/9-5 well. However, since the interpretated Zone 1 contains more shale than usual, the identification is tentative.

The Dunlin Formation was shortened in the 33/9-5 well by an unexpected fault at -2801 meters. As measured with the 33/9-3 well, 41.4 meters (135') of section are missing. Dip meter readings for several meters above indicate an average dip of 6-9° to the EN - NNE. Below the fault pick the upthrown side dips 4-6° NW - WNW (see enclosed Final Composite Log). Fault plane dipmeter readings could not be definitely identified for fault plane orientation. Before drilling the 33/9-5 well geophysical mapping of the field in the area of the 33/9-4 and 33/9-5 wells depicted numerous faults. The unmapped small fault encountered in the Dunlin adds to the structural complexity of the area.

No deviations in lithologic or paleontologic characteristics are present in the penetrated Dunlin and Statfjord Formations as compared with other Statfjord Field wells.

SUMMARY

The appraisal well 33/9-5 was successful in meeting virtually all objectives. The northern closure of the field has been reasonably deliniated; field distribution of reservoir parameters can reasonably be trend mapped; platform spacing can be planned to cover the now known reservoir limits and additional field wide velocity data is available to enhance geophysical depth determinations of the various mapped structural horizons.

Even though the secondary objective Statfjord Formation was found water bearing as somewhat expected, valuable lithologic and structural data was provided.

33/9-5

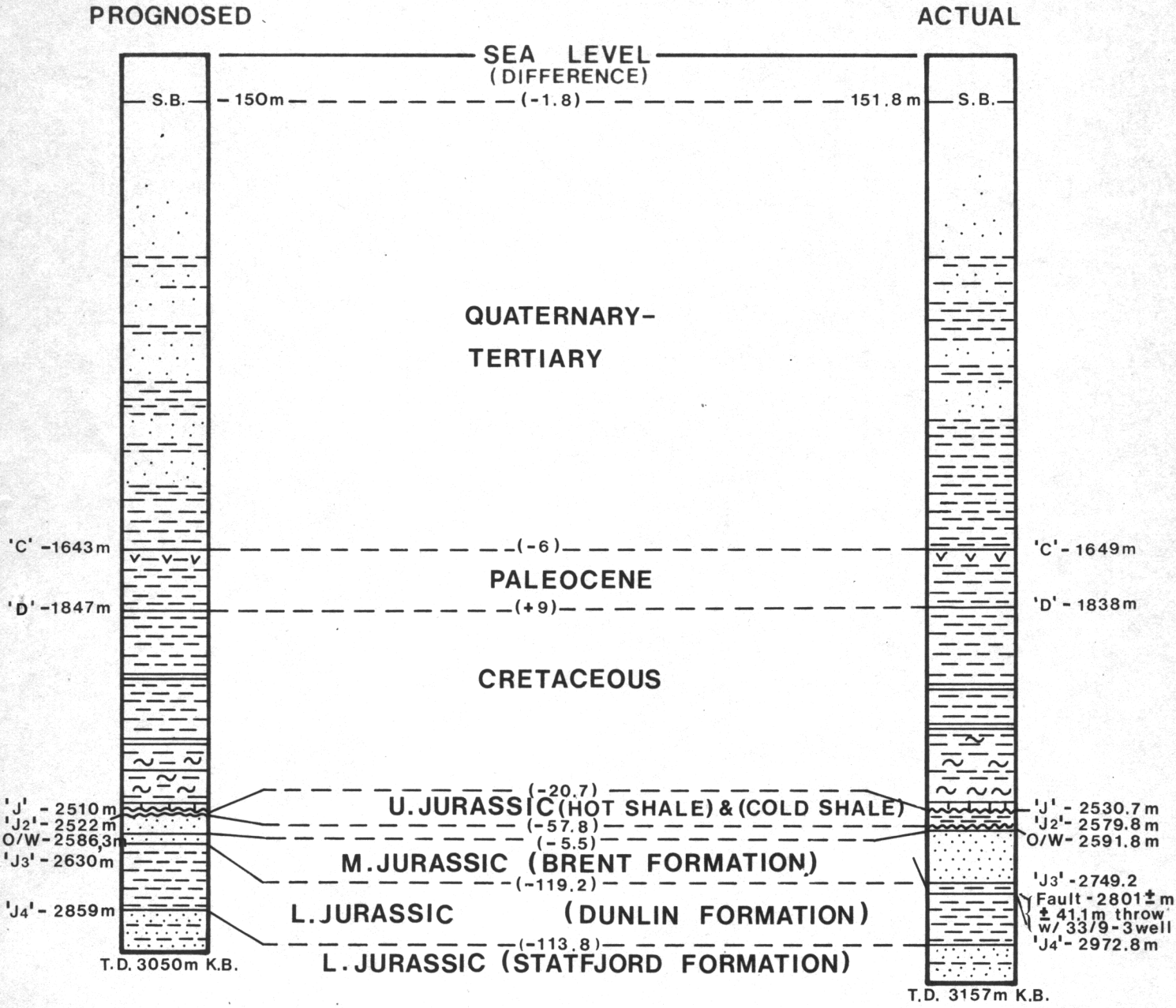


FIGURE 1

COMPARISON OF PROGNOSIS VS OBSERVED
RESULTS OF 33/9-5 WELL
VERTICAL SCALE 1:20,000
A.L.C. 1976

MOEX N 76/0128

SUMMARY OF TESTING OPERATIONS

SCHLUMBERGER FORMATION INTERVAL TESTER RUNS IN THE BRENT SAND

Chokes:	4 x .020"
Chamber capacity:	2 3/4 gals. (10,250 cc)
Mud resistivity:	1.24 at 50°F
Filtrate resistivity:	.595 at 62°F

FIT NO. 1
2624.5m (8611')

Purpose: To obtain a water sample below oil water contact.

Pressure Data (psig)	Amerada No. 8170	Amerada No. 6432	Recovery Data	
Final sampling pressure	N.A.	N.A.	Gas, ft^3	Nil
Final closed-in pressure	N.A.	N.A.	Oil, cc	Nil
Hydrostatic pressure	6240	6252	Water, cc	Nil
Drawdown	N.A.	N.A.	Mud, cc	10,250
Fill-up Time	N.D.		Sand, cc	Nil
Calc'd flowrate, cc/sec	N.A.		Resistivity, ohms: 1.22 at 64°F.	

Comments:
The hole was washed out in this section so that the testing tool did not seal properly. The obtained sample was mud only. The Amerada pressure bombs thus gave hydrostatic pressure only.

FIT NO. 2
2617.0m (8586')

Purpose: To obtain a formation fluid sample in the oil water transition zone.

Pressure Data (psig)	Amerada No. 8170	Amerada No. 6432	Recovery Data	
Final sampling pressure	5194	5211	Gas, ft^3	Nil
Final closed-in pressure	5681	5699	Oil, cc	Trace
Hydrostatic pressure	6240	6249	Water, cc	10,250
Drawdown	487	488	Mud, cc	Trace
Fill-up time, mins.	8		Sand, cc	Nil
Calc'd flowrate, cc/sec	21.3		Resistivity, ohms: .68 at 75°F.	

Comments:
The sample probably consisted mainly of filtrate water.

FIT NO. 3

2611.0m (8567')

Purpose: To obtain oil sample for PVT analysis.

Pressure Data (psig)	Amerada No. 8170	Amerada No. 6432	Recovery Data	
Final sampling pressure	5498	5521	Gas, ft^3	Nil
Final closed-in pressure	5653	5677	Oil, cc	Nil
Hydrostatic pressure	6190	6221	Water, cc	10,250
Drawdown	155	156	Mud, cc	Trace
Fill-up time, mins.	13		Sand, cc	Nil
Calc'd flowrate, cc/sec*	22.0		Resistivity, ohms: .626 at 48°F.	

Comments:

Only mud filtrate recovered. Oil traces on the outside of the chamber. A shaped charge was fired 11.5 mins. after the flowline valve had been opened as an attempt to improve flow.

*after shaped charge was fired. This flowrate was calculated using Schlumberger tables based on flowing pressure.

FIT NO. 4

2609.0m (8560')

Purpose: To obtain PVT sample from oil zone.

Pressure Data (psig)	Amerada No. 8170	Amerada No. 6432	Recovery Data	
Final sampling pressure	4595	4579	Gas, ft^3	Nil
Final closed-in pressure	5699	5673	Oil, cc	Nil
Hydrostatic pressure	6219	6197	Water, cc	10,250
Drawdown	1104	1094	Mud, cc	Trace
Fill-up time, mins.	11		Sand, cc	Nil
Calc'd flowrate, cc/sec	15.5		Resistivity, ohms: .678 at 46°F.	

Comments:

Chamber contained mud filtrate only.

FIT NO. 5

2607.0m (8554')

Purpose: To obtain PVT sample in oil zone.

Pressure Data (psig)	Amerada No. 8170	Amerada No. 6432	Recovery Data	
Final sampling pressure	2684	2685	Gas, ft^3	N.D.
Final closed-in pressure	5647	5665	Oil, cc	N.D.
Hydrostatic pressure	6181	6189	Water, cc	N.D.
Drawdown	2963	2980	Mud, cc	N.D.
Fill-up time, mins.	13		Sand, cc	N.D.
Calc'd flowrate, cc/sec	11.3		Resistivity, ohms: 1.34 at 40°F.	

Comments:

Oil transferred from chamber to two high pressure shipping bottles. Some mud or filtrate in the second bottle. A shaped charge was fired after 7 mins. of flow, but this only improved flow slightly. Resistivity shown above was from small amount of filtrate left after transfer.

FIT NO. 6

2650.0m (8695')

Purpose: To obtain water sample from below oil water contact.

Pressure Data (psig)	Amerada No. 8170	Amerada No. 6432	Recovery Data	
Final sampling pressure	5728	5740	Gas, ft^3	Nil
Final closed-in pressure	5742	5754	Oil, cc	Nil
Hydrostatic pressure	6296	6308	Water,cc	10,250
Drawdown	14	14	Mud, cc	Trace
Fill-up time, mins.	7		Sand, cc	Nil
Calc'd flowrate, cc/sec	24.4		Resistivity, ohms: .857 at 48°F.	

Comments:

Water sample obtained for analysis. Sample was probably highly contaminated with mud filtrate.

FIT NO. 7

2607.8m (8556')

Purpose: To obtain PVT sample in oil zone.

Pressure Data (psig)	Amerada No. 8170	Amerada No. 6432
Final sampling pressure	3162	3170
Final closed-in pressure	5673	5674
Hydrostatic pressure	6177	6193
Drawdown	2511	2504
Fill-up time, mins.	9.5	
Calc'd flowrate, cc/sec	18.0	

Recovery Data	
Gas, ft^3	N.D.
Oil, cc	N.D.
Water, cc	10,250
Mud, cc	N.D.
Sand, cc	N.D.
Resistivity, ohms:	.753 at 57°F.

Comments:

PVT sample was not transferred to shipping bottles at rig due to broken transfer equipment. FIT chamber sent ashore for transfer of sample was found to contain all water - probably mud filtrate.

PAN AMERICAN PETROLEUM CORP.
P.O. BOX 1797
HOBBS, NEW MEXICO

MOBIL EXPLORATION NORTH AMERICA INC.

OX "B" 6
STATELINE FIELD
FINAL COMPOSITE LOG

TD DRILLER 9,110'
TD LOGGER 9,112'
TOTAL DEPTH LOGGED 9,110'
TOP PACKER DEPT. LOGGED 7,570
BOTTOM PACKER DEPT. 7,590
ELEV. FROM CL CASINGHEAD 3,559'
ELEV. FROM KB 3,569'

LITHOLOGY SYMBOLS

Limestone		Anhydrite	
Dolomite		Salt	
Sandstone		Shale	
Chert		Coal	
Gypsum		Igneous	

Porosity		Fossiliferous	
Oolitic		Vuggy	
Fractured		Cherty	
Pyritic		Glauconitic	
Bituminous		Sandy	

COMPANY NAME	WELL NAME	FIELD NAME	COUNTY
MOBIL EXPLORATION NORTH AMERICA INC.	OX "B" 6	STATELINE	LEA

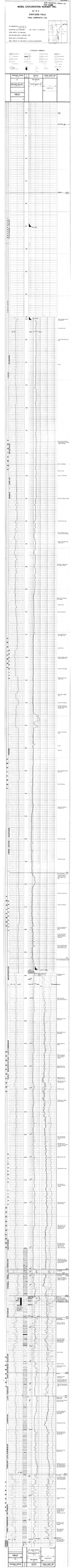
API NUMBER	LOCATION	SECTION	TWP	RGE
	1980' FSL & 1980' FEL			

PERMANENT DATUM	ELEVATION	LOG MEASURED FROM	DRILLING MEASURED FROM
GROUND LEVEL	3,559'	KB 10' ABOVE PERM. DATUM	KB

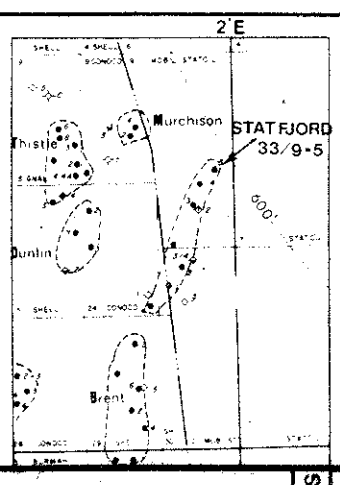
DATE	RUN NO.	DEPTH DRILLER	DEPTH LOGGER	BTM. LOG INTERVAL	TOP LOG INTERVAL	CASING DRILLER	CASING LOGGER
12-7-1964	ONE	9,110'	9,112'	9,110'	7,570'	8 5/8" @ 1,500'	8 5/8" @ 1,500'

TYPE FLUID IN HOLE	DENSITY	VISCOSITY
SALT GEL	10.0	40

RECORDED BY	WITNESSED BY
J. WILLIAMS	J. WILLIAMS


FORM. DENS. CORR.
CALIPER
GAMMA RAY
SPONT. POTENTIAL
RESISTIVITY
FORM. DENS. POROSITY
SONIC
CALIPER
GAMMA RAY
SONIC
SONIC
CALIPER
GAMMA RAY
SONIC
SONIC
CALIPER
GAMMA RAY
SONIC

ENCLOSURE 2



MOBIL EXPLORATION NORWAY INC.

MOBIL/STATOIL/CONOCO/ESSO/SHELL/AMOCO-SAGA

SUMMARY LOG 33/9-5

SCALE: 1:10,000

COORDINATES LAT. 61°20 47.87"N LONG. 01°56"51.70'E
ELEVATION KB/25m
WATER DEPTH 151.8m
TOTAL DEPTH 3157m (KB)
RIG ROSS
SPUDDED 7-10-75
COMPLETED 1-1-76
STATUS PLUGGED & ABANDONED OIL WELL

MOBIL EXPLORATION NORWAY INC. FILE COPY

METERS | STRATIGRAPHY | OIL SHOWS | CASING CORES SWS | LITHOLOGY-INDICATIONS-TEST RESULTS REMARKS | LOGS: I&F-SON, HDT, BSGRC, CNL-FDC, DLL-MSFL, CPI

SEA LEVEL

176.8

SEA BED
No Paleo. 176.8-252

RECENT-PLEISTOCENE

288(P)

PLIOCENE

575(P)

?U.MIOCENE 580(P)

M.-?L.MIOCENE

1008(P)

OLIGOCENE

1368(P)

EOCENE 1432(P)

L.EOCENE-PALEO.

1674(L)

PALEOCENE

1863(L)

MAASTRICHTIAN 1921(P)

EARLY MAASTRICHTIAN-LATE CAMPANIAN 2139(P)

EARLY CAMPANIAN

2460(P)

SANTONIAN 2505(P)

CONIACIAN 2546.4(L)

BARREMIAN 2555.7(L)

HOTSHALE 2558.4(L)

COLD SHALE 2604.8(L)

BRENT FM. 2774.2(L)

DUNLIN FM

2997.8(L)

STATFJORD FM

3129(P)

TERTIARY | CRETACEOUS | JURASSIC

OIL SHOWS: PR FR GD

CASING CORES SWS: 30" 252m; 20" 456m; 13 3/8" 1888.5m; 5-7 4; 2 3; 1; 6

SL

SEA BED

No samples

Sd. clr.ang-rdd, mod srtd, mic, foss frag.

Cl, gy, sft, calc, slty.

Cl, a/a. w/sd, f-crse grn, foss frag.

Cl, c/a slty.

Sd. clr, dk gy, meta rk frag, vf-med grn.

Cl a/a

Sd. a/a w shell frags.

Sd a/a, trace glauc, tr forams.

Sd. a/a tr mdst. med gy. tr glauc.

Clyst, gy-lt bn, sft-med hd, tr pyr.

Sd, qtz, f-med grn, sb rdd-sb ang, mod srtd.

Clyst, gy, sft. slty. tr/glauc,

Sd, c/r lt gn, f, tr glauc, sli calc.

Clyst, a/a, mainly gy-lt bn, tr pyr, sd.

Clyst, a/a, tr mdst. lt gy.

Clyst, gy-gn, med hd, v slty, sli calc, tr sd, tr dol, tuff.

Sd, clr, lse, f-med grn, sb ang, sb rdd, mod srtd, g por.

Mdst, gy grdg to sltst, gy-gygn, sli calc.

Mdst, gybn-lt gy, sli calc, v sft. slty.

Clyst, gygn, firm

Mdst, gybn-lt gy, sli calc, v sft, sli calc.

Clyst, gygn, firm, tr pyr, calc.

Marl, ltgy, clyst, gn, firm

Sd. clr, vf-f/grn, occ crse, sb rdd, Sb, ang, sli arg, mic.

Clyst/Mdst, ltgy-gn, sft-firm.

Sh, gy firm.

Calcilutite, lt bngy, occ slty, mod hd. sdy.

Ss, a/a, m-r crse-cgl, sb ang, sb rdd, med srtd. kao, tr sh, gn and red.

T.D. 2157

NOTE:
(P) PALEO TOP
(L) LOG TOP

CORES

No. 1 2609.2-2628.2 Revd 2609.2-2626.05 (Adjusted Depth)

FITs
No. 1: 2624.5
Recovery- mud only
No. 2:2617
Recovery - filtrate, mud & tr oil
No. 3 2611
Recovery - filtrate, mud & tr oil
No. 4. 2609
Recovery - filtrate, mud & tr oil
No. 5: 2607
Recovery — filtrate, and tr oil
No. 6: 2650
Recovery - water contaminated w/ filtrate & mud.
No. 7: 2607 8
Recovery - mud filtrate

Mobil MOBIL EXPLORATION NORWAY INC.

WELL NAME: 33/9-5

well record sheet

COMPANY: Mobil Exploration Norway	STATUS: P & A Oil Well
AREA/BLOCK Norway - 33/9 (Statfjord)	RIG & PICK UP DATE: Ross-Rig - 22 October 1975
LATITUDE: 61° 20' 47.87"N	SPUDDED: 27 Oct 1975 / REACHED T.D.: 16 Dec 75
LONGITUDE: 01° 56' 51.70"E	RIG RELEASE DATE: 1 January 1976
CLASSIFICATION: Appraisal	RIG MONTHS: 2.3 / TRADE DATA:
K.B.: 25m (82') / AGE OR FM. AT T.D.: L. Jurassic	WATER DEPTH: 151.8m (498')
T.D.: 3158m (10361')	CASING: 30" at 252m (827'), 20" at 456m(1496'), 13 1/8" at 1888.5m

LOGS: ISF/SONIC, IES, BHCS/GR, CNL/FDC, DLL/MSFL, HDT, CPI, BGT, Dir. Survey (6196')

* Note: All logs measured from Rotary Table elevation 24.7m.

STRATIGRAPHIC TOPS

UNIT	K.B. DEPTH METERS	K.B. DEPTH FEET	SUBSEA DEPTH METERS	SUBSEA DEPTH FEET	THICKNESS METERS	THICKNESS FEET
TERTIARY *						
ROGALAND GROUP (PALEOCENE) *	1674.5	5493.7	-1649.8	-5412.7	188.5	618
BALDER FORMATION *	1674.5	5493.7	-1649.8	-5412.7	31.5	103
LISTA FORMATION *	1706.0	5597.0	-1681.3	-5516.0	157.0	515
SHETLAND GROUP (U. CRETACEOUS) *	1863.0	6112.1	-1838.3	-6031.1	683.4	2242
CROMER KNOLL GROUP (L. CRETACEOUS) *	2546.4	8354.2	-2521.7	-8273.2	9.3	30
BARREMIAN LIMESTONE UNIT *	2546.4	8354.2	-2521.7	-8273.2	9.3	30
HUMBER GROUP (U./M. JURASSIC) * *	2556.0	8385.8	-2531.0	-8303.8	49.2	57
HOT SHALE FM (U. JURASSIC) * *	2556.0	8385.8	-2531.0	-8303.8	1.3	4
COLD SHALE FM (M./U. JURASSIC) * *	2557.3	8390.1	-2532.3	-8308.1	47.9	53
BRENT FM. (M. JURASSIC) * *	2605.2	8547.2	-2580.2	-8465.2	181.7	596
ZONE – 1 (1R) * *	2605.2	8547.2	-2580.2	-8465.2	47.1	154
ZONE – 2 * *	2652.3	8701.8	-2627.3	-8619.8	37.4	123
ZONE – 3 * *	2689.7	8824.5	-2664.7	-8742.5	20.6	68
ZONE – 4 * *	2710.3	8892.0	-2685.3	-8810.0	16.5	54
ZONE – 5 * *	2726.8	8946.2	-2701.8	-8864.2	48.0	157
ZONE – 6 * *	2774.8	9103.7	-2749.8	-9021.7	12.1	40
DUNLIN FM. (L. JURASSIC) * *	2786.9	9143.4	-2761.9	-9061.4	111.2	365
TOP DUNLIN – 2 MBR FAULTED * *	2826.3	9272.6	-2801.3	-9190.6	46.0	151
BASE DUNLIN – 2 MBR * *	2872.3	9423.4	-2847.3	-9341.4		
CALCAREOUS MEMBER * *	2928.8	9740.5	-2943.9	-9658.5	28.8	94
STATFJORD FM. (L. JURASSIC/U. TRIASSIC) * *	2998.1	9836.3	-2973.1	-9754.3	151.2+	496+
UNIT – 1 * *	2998.1	9836.3	-2973.1	-9754.3	117.2	385+
UNIT – 2 * *	3115.3	10220.8	-3090.3	-10138.8	34+	112+
BASE UNIT – 2 * *						
BASE STATFJORD FORMATION * *						
CORMORANT FORMATION (U. TRIASSIC) * *						
TOTAL DEPTH (FORMATION):	3158.3	10360.8	-3133.3	-10279.8		

CORING: Core 1 2609.2-2628.2m(8561-8623') Rec. 16.8m(55')- 88.7%

Brent Sand: Gross Sand 181.7m(596'), Net Sand 110.2m(362'), Avg. Ø 23.4%, N/G = 0.61

Brent Pay: Gross Pay 16.9m(55') Net Pay 10.3m(34') Avg. Ø 22.1% Avg. SW 37.7% OWC at 2621.7m(-2569.7m) Statfjord Sand: Gross 16.5m, Net 89.3m Avg. Ø 21.2% N/G = 0.77

No fault picked at 2825.5m. Thinning prob. structural. Possibly a disconformity?, non deposition? etc.

NOTE: * LOG TOPS PICKED ON/OR CORRELATED TO THE IES OR ISF/SONIC LOG.
** LOG TOPS PICKED ON/OR CORRELATED TO CNL/FDC LOG

MOEX N 262

PALEONTOLOGY/PALYNOLOGY

		Meters ±	Feet ±	Meters±	Feet ±
Quaternary/Tertiary	Recent-Pleistocene	252- 284	825- 930	32	105
	Pliocene	292- 572	960-1875	280	915
	?U. Miocene	580	1900		
	M-?L. Miocene	580-1004	1900-3295	424	1395
	Oligocene	1012-1364	3320-4475	352	155
	Eocene	1372-1428	4500-4685	56	185
	L.Eocene-Paleocene	1436-1667	4710-5470	231	760
	Paleocene	1676-1844	5500-6050	168	550
U. Cretaceous	Maastrichtian	1852-1918	6075-6290	66	215
	L.Maastrichtian-U.Campanian	1924-2136	6310-7010	212	700
	L.Campanian	2142-2448	7030-8030	306	100
	Santonian	2454-2502	8050-8210	48	160
	Coniacian	2508-2544	8230-8345	36	115
L.Cretaceous	Barremian	2550	8365		
?M.Jurassic		2556-2568	8385-8425	12	40
M. Jurassic	Callovian-U.Bathon.	2571-2586	8435-8485	15	50
	Bathonian	2592-2682	8505-8800	90	295
	L.Bathonian-Bajoc.	2685-2790	8810-9155	105	345
L. Jurassic	U. Toarcian	2796-2832	9175-9290	36	115
	Domerian	2838-2898	9310-9510	60	200
	Carixian-U.Sinemurian	2904-2985	9530-9795	81	265
	L.Sinemurian-Hettang.	2988-3126	9805-10255	138	450
?L.Jurassic-Triassic	?Hettangian-Rhaetian	3132-3159	10275-10360	+27	+85

TEST DATA (INDICATE IF DST, PT, OR FIT) (TIMES IN MINUTES, PRESSURE IN P.S.I.)

NO.	INTERVAL	TOTAL FLOW PERIOD	RECOVERY AND REMARKS	MAX. PRESSURE FFP	FSIP	HH
FIT 1	2624.5m(8611')		10,250 cc mud - test failed			6252
FIT 2	2617.0m(8586')		10,250 cc water, trace oil and trace mud	5211	5699	6249
FIT 3	2611.0m(8567')		10,250 cc water, trace mud	5521	5677	6221
FIT 4	2609.0m(8560')		10,250 cc water, trace mud	4595	5673	6219
FIT 5	2607.0m(8554')		9000cc oil,35.8°API,2250cc water	2685	5665	6189
FIT 6	2650.0m(8695')		10,250 cc water, trace mud	5740	5754	6308
FIT 7	2607.8m(8556')		10,250 cc water	3170	5674	6193

ABBREVIATIONS:

NP	NOT PRESENT	ER	ERODED	SL	SONIC LOG
NL	NOT LOGGED	F	FAULTED	DL	DENSITY LOG
NR	NOT REACHED	GR	GAMMA RAY LOG	NL	NEUTRON LOG
		PT	PALEO TOP	ST	SAMPLE TOP
				SD	SCOUT DATA

BY: RHK, AL, TB

DATE: November 1979 REVISED: T.A.W. 12/79