

ESSO PRODUCTION RESEARCH COMPANY

POST OFFICE BOX 2189

HOUSTON, TEXAS 77001

STRATIGRAPHIC GEOLOGY DIVISION
EDWARD MCFARLAN, JR., MANAGER

August 27, 1970

-1 SEP 1970

Air Mail

Mr. R. E. Anderson
Esso Exploration Norway Inc.
Verksgaten 29
Stavanger 4000, Norway

Oils from 25/8-1 Production Tests (7680)

Dear Sir:

Our Production Engineering laboratory has completed the analyses of five production test crude oil samples from your 25/8-1 well, as was requested in your letter S-129/70 of July 2, 1970. The results are given in the attached table. The analyses included determinations of API gravity, sulfur content, pourpoint, paraffin content, and viscosity over a range of temperatures from 50°F to 200°F.

A separate report is being prepared on a geochemical comparison of the oils with hydrocarbon extracts from various shale cores from this well. This will be sent to you in the near future.

Very truly yours,

E. McFarlan, Jr.

RE. Metter

By R. E. Metter

REM:rk

Attachment

c.c. Mr. Zeb Mayhew)
Attention Mr. J. B. Coffman)
Mr. D. H. Roberts) (with attachment)
Mr. R. J. Loeffler)
Mr. W. R. Eckelmann)

TABLE I

RESULTS OF ANALYSES BY EPR PRODUCTION ENGINEERING LABORATORY

Esso Ex No.	EPR Sample No.	Percent by Weight		Pourpoint, °F	°API at 60°F
		Sulfur Content	Paraffin and Resinous Matter		
F-4 1745 Cs2	56321	0.70	0.20	-10	21.6
F-4 1830 Cs4	56322	0.70	0.21	-10	21.2
F-4 2200 Cw5	56323	0.65	0.20	-10	21.5
F-4 2300 Cw7	56324	0.72	0.26	-10	21.3
F-4 0030 Cw10	56325	0.71	0.23	-10	21.4

Temperature, °F	Viscosity, cp, at Indicated Temperature				
	Sample No.				
	56321	56322	56323	56324	56325
50	320	350	360	350	320
70	170	190	180	180	180
90	90	130	115	110	120
110	60	90	75	70	80
130	40	60	50	47	57
150	30	42	36	34	42
170	22	32	27	25	32
190	17	24	20	19	22
210	13	19	16	15	20

August 24, 1970

TO		SUBJECT	
P. H. Monaghan		Analysis of oil & water samples from North Sea Well 25/8-1	
FROM		DATE	FILE NO.
R. V. Randall		July 14, 1970	49166

RRR

The attached laboratory data sheet gives the mineral analysis for a sample of formation water from Well 25/8-1 F.I.T. #2. Data requested on two oil samples are given below:

	<u>Total Sulfur, % by Weight</u>	<u>°API @ 60°F</u>
FIT # 1	0.77	21.7
FIT # 3	0.80	21.8

GTPyndus/bmg
Attachment

ESSO PRODUCTION RESEARCH COMPANY

PRODUCTION ENGINEERING DIVISION

WATER ANALYSIS

FROM Well 25/8-1 Formation Interval Test No. 2 (Water)
North Sea, Esso Exploration Norway Project 7680

SUBMITTED BY P. H. Monaghan

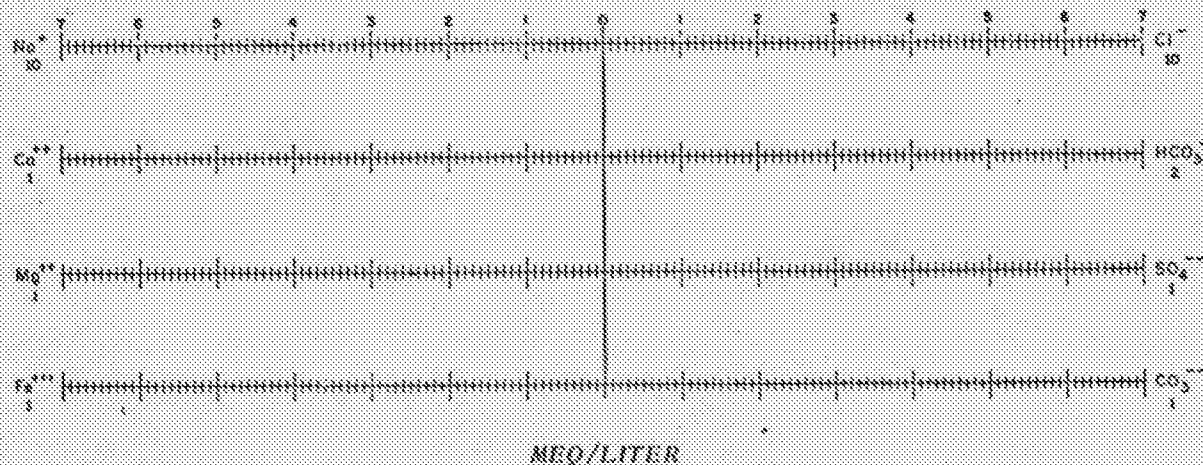
DATE SAMPLED

DATE RECEIVED 6-30-70

SAMPLE DESCRIPTION

	Analysis		Comparison Data	
	Mg/L	MEQ/L		Percent
Sodium	<u>3,977</u>	<u>172.93</u>	Primary Salinity	<u>89.80</u>
Calcium	<u>143</u>	<u>7.14</u>	Secondary Salinity	<u>0.60</u>
Magnesium	<u>7</u>	<u>0.57</u>	Primary Alkalinity	<u>5.94</u>
Chloride	<u>4,150</u>	<u>116.90</u>	Secondary Alkalinity	<u>4.26</u>
Sulfate	<u>2,175</u>	<u>45.31</u>	Chloride Salinity	<u>72.07</u>
Bicarbonate	<u>1,124</u>	<u>18.43</u>	Sulfate Salinity	<u>27.93</u>
Carbonate	<u>-</u>	<u>-</u>		
Hydroxide	<u>-</u>	<u>-</u>		
			Ratios	
TOTAL	<u>11,576</u>	<u>361.28</u>	Chloride: Bicarbonate	<u>6.34</u>
			Chloride: Sulfate	<u>2.58</u>
Hydrogen Sulfide	<u>-</u>	<u>-</u>	Bicarbonate: Sulfate	<u>0.41</u>
Total Iron	<u>-</u>	<u>-</u>	Calcium: Magnesium	<u>12.53</u>
Calcium Carbonate Stability	<u>-</u>	<u>-</u>	Sodium: Calcium & Magnesium	<u>22.43</u>
			Specific Gravity at <u>70</u> °F	<u>1.0100</u>
			Resistivity, ohm meters at <u>-</u> °F	<u>-</u>
			pH	<u>7.27</u>

WATER PATTERN (Stiff Method)



EPRCO SAMPLE NUMBER 49166-A

ANALYZED BY Frances G. Scanlan