## Esso Production Research Company

Post Office Box 2189 Houston, Texas 77001

3t. AUR 1970

STRATIGRAPHIC GEOLOGY DIVISION EDWARD McFARLAN, JR., MANAGER

August 20, 1970

## Air Mail

## **EPR PROPRIETARY**

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

Dear Sir:

## F.I.T. Samples from Esso 25/8-1 Well (7680)

Enclosed are results of some of the analyses that have been performed on F.I.T. samples from the 25/8-1 well, as requested in your letter S-163/70 of June 10, 1970. These include

- (1) Abbreviated assays by the Humble Baytown Refinery laboratory on oils from F.I.T. 1 and F.I.T. 3
- (2) Determinations of percent sulfur and API gravity on the two oils, made by the EPR Production Engineering laboratory
- (3) A standard water analysis of the sample from F.I.T. 2, performed by the EPR Production Engineering laboratory

A summary of results of (2) and (3) wasetransmitted to you in our cable of July 2, 1970. The oils averaged 0.79 percent sulfur by weight and 21.8° API gravity. The water contained 11,570 ppm total solids and 4,150 ppm chloride.

The refinery assay curves are similar to each other and also similar to the curves for the 25/11-1 well that you received in November, 1967.

Viscosity analyses are still being run on the five production flow test samples mentioned in your July 2 letter S-129/70. These results plus results of geochemical analyses of the core extracts and the oils will be included in a service report that is now being prepared on the 25/8-1 samples. One conclusion is that the oils from 25/8-1 and 25/11-1 are similar. This will be discussed in the forthcoming report.

We will transmitt the additional information as soon as the analytical program is completed.

Yours truly,

E. McFarlan, Jr.

Patrick H. Monaghan

By Patrick H. Monaghan

R. E. Metter:rk Enclosures

c.c. Messrs. Zeb Mayhew/J. B. Coffman

D. H. Roberts R. J. Loeffler

(with enclosures)

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. . BLC DIE G 11 HING COMPAI MANNT ACTURING DIVISION REFINERY LABORATORY BAYTOWN, TEXAS INTERMEDIATE ASSA

				***************************************		REFORT DATE 0-12-70				
	Filto Sample No. 70299A (PTT-1, 25/0-1, 5.763 feet)					DATE DISTILLED				
the name of the contract	***************************************	DATE SAMPLED								
				ASSAY	NO. 1529					
	******************			F11 E 1	015. 980-A	8.70				
				CANOS	************					
			***************************************		::NTEN 25012	374				
				REPOR						
					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	HICKERSON				
07	DATA ON PRODUCTS									
RAVITYTAPI	721.5		NAPHTHAS							
11.51.61.51.51.61.61	0.77	T VAPOR TEMP., <sup>S</sup> F	C8-178	132	1132 306	71.72				
LASH, <sup>6</sup> F, F, M		PANGE OF CUT, LYS		0.0-1.4		70.0-7.7				
U. VISCOSITY AT 189 <sup>5</sup> F		YIELD LVS		1.4	7 3.9	7.9				
80.0		GRAVITY, PAPI								
60,94		BESEARCH OCTABE NO.								
400 s		+1.8 CC TEL								
		43.0 CC YEL								
ATER BY DISTILLATION, N		MOTOR OCTANE NO.								
ELO VARON PRESSURE LA		#1.8 CC TEL								
0.08 20 87 57	1.5	43 8 CC 7EL			***************************************					
ALT AS NACL, PTB		REIO VAPOR PRESSURE, LB.								
EUTSALIZATION VALUE DESA		SULFUR N. LAMP								
YORK CARBON ANAL, LV1		MERCAPTAN NO. MO/100 CC								
CONTINU		\$ AY 100°F + LOSS								
		2127								
1C4		2870								
s Ca		38.67								
168		30.50								
NC:		F.S.P. *F								
ERCAPTAN NO. MG/100 CC		LOSS, N								
OLOR SAYBOLT										
OLOR ROBINSON										

VAPOR TEMPERATURE, <sup>D</sup> F		REAVY BAPHTHA	\$	KEROSENE & TURBO FUELS			
	250-976	132- 300	350-375	375-530	309-900	375-400	
ANDE OF CUT LVS	1,4-7,9	0.0-3.9		7.9-18.1	3,9-15.8		
ELD, LVS	6.5	3.9		10.2	11.9		
DEON'T OF CUT, SE				****			
RAVITY	43.4	40.7		33.9	35.9		
ESPANCH OCTANE NO., CALC.			••••			****	
LEUR NIVANE				0.077	0.043	****	
ELINE POINT OF						***************************************	
ENCAPTAN NO. NO 100 CC	****	****				XXX	
ISCOSITY, KINEBATIC \$ -60°F., CS			****			****	
CCOSTY KINEWATICS 30 F. CS	***	0000				***************************************	
INCOMES KINEMATIC NEOF CA	***						
RECORD POINT T	***	****				•••••	
E.T. WOKE POINT, NW							
OLON SAYOOLT		****	****				
ROMATICS LVS M.S.	51.4	74.4		****	***	••••	
APATHENES LYS MS		100.4	***	****	***	****	
ARAFFINS, LVS, M.S.	15.3	10.2		****	•••		
HOMATICS LIVE FLA				20.9	24.4		
UMINOMETERNO	****	****			***		
EFRACTIVE INDEX NO 80°C			***	***		***	

8.	**	COLE DISTILLA	(88	988 011.8				
VAPOR TEMPERATURE, DP		430-530	\$30-650	650-850	855-3 (200)	1000-1050		
88 E 24 C 27 L V 8		111.22-10.1	18.3-30.8	30.0-55.0	55,0-01,0			
(181.0.1.98		75.9	127	24.2	12.0			
CARVITY PARI		30.70	27.7	25.1				
088880719810088 NO67°C								
0.000								
escous Power Pr								
NESCLISOES								
CONTROL OF								
COMPADSON CARRON, S			ļ					
UTROOFE, 87. S				ļ				
POMATIC RINGS, CALC.								
IAPHTHENE BINGS CALE								
867 ASH, PPH SI	••••							
Y			***	Voca.		***************************************		
	***							
NA VISCOSITY AT 180°F								
1300	2002		***					
1894	****		****	ļ				
1780			ļ					
2184	***		<u> </u>					
NEUTRALIZATION VALUE DATA								

VAPOR TEMPERATURE, <sup>D</sup> P	WAXY LUBE OIL	DEVANED LUSE	80770#\$		CORRELATED DATA	
varun ibnrunaiums, "f	790-1000 190-1000		8640NO 1080	86YOND 1000	PHENOL TREATING	
98868 08 50 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	19,0-67,9			61.04.00.0	CHARACTERISTICS ON	
Y18 (3.1.V)	10.9	****		32.1	NARRON LUBE CUT Joewanec	
CARVITY * 891	21.7			7.0		
SULFUR, N. DIETERY	0.63	***		1.10		
ANILIUS POINT OF			****		TREAT V.	
018383-19083			•••		0	
S.B. VISCOSITY AT 196 <sup>0</sup> 9			A 4444	••••	100	
130°F			***		200	
180°7	272				300	
1917		***	444	***	V 8 S	
<b>8</b> 2112	75.3					
Privince of the American						
2107						
276	***	***		245		
9007		***				
FLASH, ST. C.O.C.						
POUR POINT, <sup>O</sup> F			***	****		
VISCOSTY INDEX	72		****			
NEUTRALIZATION VALUE DOGA	0.48	***			*0974	
84X, 5 N, 4 , 3			***	***		
CONSADION CARBON, S						
MOD INSOL IN MET HAPH.		***		0.55		
Clay (e):		**				
Saturates		•••		16.4		
				12.		
		***		10.9		
		***				
SOFTENING POINT, "F		***				
PENETRATION AT 11°5						
EEEE THATION AT 10 2 FF						
BUCTUITY AT 77°7	***					
SOLUBLE IN CCIA	4444					

