1513012005

LABORATORY ANALYSIS SHEET

ANVIL POINTS OIL SHALE RESEARCH CENTER

Date Sampled 3-26-67 Run No. STARTUP C-402-3

Sample Time: RS 2015; SS _____

FISCHER ASSAY

(X) RAW SHALE ( ) SPENT SHALE

25.2	.	Gal/Ton
.916	.	S.G., g/ml
9.6	.	Oil, wt %
1.8	.	Water, wt %
86.8	.	Sp. Shale, wt %
1.8	.	Gas & Loss, wt %
slight		COKING TENDENCY

MINERAL CO_2

(X) 17.2 ( ) . wt %

ASH (SHALE)

(X) 68.7 ( ) . wt %

MOISTURE

(X) 0.31 ( ) . wt %

CARBON

(X) 15.7 ( ) . wt %

HYDROGEN

(X) 1.57 ( ) . wt %

BENZENE EXTRACTABLES

( ) . ( ) . wt %

( ) RETORT SHALE MOISTURE

_____ wt %

(X) RAW SHALE FISCHER ASSAY MOISTURE

0.67 wt %

( ) SHALE RICHNESS DISTRIBUTION (See attached graph)

( ) SCREEN ANALYSIS (See back of this sheet)

All results are "as received" unless noted. "Moisture" designates the moisture content of the -48 mesh material used for "Ash", "Mineral CO_2", "Carbon", and "Hydrogen". The "FA Moisture" is for the sample used for the Fischer Assay.

COMMENTS _____

DATE COMPLETED [illegible] 1967 CHECKED BY REP

OSRC-12A
Revised 6/20/66

LABORATORY ANALYSIS SHEET

ANVIL POINTS OIL SHALE RESEARCH CENTER

Date Sampled 3-26-67 Run No. C 1023 1800

LIQUID PRODUCTS

	D3 PUMPOUT				T3 PUMPOUT	
	1	2	3	4	1	2
⊗ WATER, wt %	29.4					
⊗ GRAVITY, °API	19.8					
○ OIL ASH, wt %						

○ DISTILLATION (See attached sheet - OSRC-24)

VENT PURGE PRODUCT

OIL WT, g _____

WATER VOL, ml _____

GRAVITY OIL, °API _____

VENT GAS

○ MAJOR COMPONENTS

CO_2	.	vol %
O_2	.	"
N_2	.	"
CH_4	.	"
CO	.	"
H_2	.	"
Ar	.	"
Others	.	"

○ C_1 thru C_4, plus n-Pentane

CH_4	.	vol %
C_2H_4-C_2H_6	.	"
C_3H_8	.	"
C_3H_6	.	"
i C_4H_{10}	.	"
n C_4H_{10}	.	"
ϕC_3H_6	.	"
n C_5H_{12}	.	"

○ CARBON, . lbs/MSCFDG HYDROGEN, . lbs/MSCFDG

COMMENTS _____

DATE COMPLETED MAR 28 1967 CHECKED BY REP

SCREEN ANALYSIS DATA SHEET (TY-LAB)

RUN NO. C-1023 SAMPLE NO. _____ DATE 3-26-67

UNIT Retort 3 DESCRIPTION Ty Lab

APPROX. SHALE SIZE ½"-1" SHAKING TIME 10 min. ANALYSIS BY Satterfield & Schaeffer

TOTAL SAMPLE WT. GROSS 108.5 – TARE 5.3 = NET 103.2

SCREEN SIZE			WEIGHTS		
SCREENS REQD.	OPENING SIZE	MESH	GROSS LBS.	TARE LBS.	NET WT. RETAINED
	4.25				
	3.00				
	2.50				
	2.00				
	1.50				
	1.05		30.4	19.2	11.2
	0.742		62.6	20.5	42.1
	0.525		42.7	18.5	24.2
	0.371		29.4	19.3	10.1
	0.263	3	27.8	18.4	9.4
	0.185	4	23.2	19.4	3.8
	0.131	6	20.0	19.3	.7
	0.093	8	20.4	20.2	.2
	0.065	10	19.3	19.2	.1
	PAN		22.0	21.0	1.0
TOTAL ON SCREENS AND PAN					102.8
LOSS (BY DIFFERENCE)					.4
TOTAL SAMPLE WEIGHT					103.2

SCREEN SIZE	Di *	1/Di	% RETAINED	CUM. % RETAINED	% PASSING
4.25					
3.00	(3.125)	(0.3200)			
2.50	(2.625) 2.750	(0.3809) 0.3636			
2.00	2.250	0.4444			--
1.50	1.750	0.5714			
1.05	(1.087) 1.275	(0.9199) 0.7843	10.89		89.09
0.742	0.896	1.116	40.95		48.14
0.525	0.634	1.577	23.54		24.60
0.371	0.448	2.232	9.82		14.78
0.263	0.317	3.154	9.14		5.64
0.185	0.224	4.464	3.70		1.94
0.131	0.158	6.329	0.68		1.26
0.093	0.112	8.928	0.19	98.91	1.07
0.065			0.10		0.97
PAN			0.97		0.00
LOSS			–	–	–
TOTAL			99.98	–	–
				–	–

* NUMBERS IN PARENTHESES SHOULD BE USED WHEN THESE SCREEN SIZES REPRESENT THE TOP OF THE SHALE SIZE RANGE.

REMARKS: _____

$\Sigma^{m}_{+8m} Di$	0.71707	$\Sigma^{m}_{+8m} Xi$	
$1/\Sigma^{m}_{+8m} Di$	1.66163	$\Sigma^{m}_{+8m} Xi / Di$	
Da	0.59547	$\Sigma^{m}_{+8m} Xi\ Di$	
Dv	0.72497		