

State Geological Survey
WICHITA BRANCH

CORE ANALYSIS REPORT

FOR

SOHIO PETROLEUM COMPANY
RUSCH NO. 'AB' NO. 1 WELL
RUSSELL COUNTY, KANSAS

A - 12-15W API 15-167-21618

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
OKLAHOMA CITY, OKLAHOMA

REPLY TO
SUITE 133
400 SOUTH VERMONT
OKLAHOMA CITY, OKLA.
73108

JUNE 3, 1981

SOHIO PETROLEUM COMPANY
P.O. BOX 30
CASPER, WYOMING 82602

ATTN: MR. W.H. WARD

SUBJECT: CORE ANALYSIS DATA
RUSCH NO. 'AB' 1 WELL
RUSSELL COUNTY, KANSAS
CLI FILE 3402-10723

GENTLEMEN:

CORES TAKEN IN THE SUBJECT WELL IN THE PLATTSMOUTH FORMATION WERE RECEIVED AT THE OKLAHOMA CITY LABORATORY FOR SPECIAL ANALYTICAL TESTING DESCRIBED ON THE PROCEDURE PAGE.

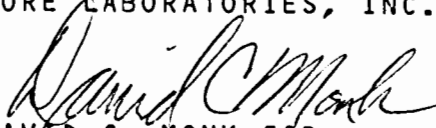
THE ACCOMPANYING COREGRAPH PRESENTS THE SURFACE CORE GAMMA LOG AND BINOMIALLY AVERAGED CORE ANALYSIS DATA IN GRAPHICAL FORM TO AID CORRELATION WITH DOWNHOLE ELECTRICAL SURVEYS.

TABULAR PRESENTATION OF THE MEASURED PHYSICAL PROPERTIES MAY BE FOUND ON PAGE ONE OF THIS REPORT.

IT IS A PLEASURE TO HAVE THIS OPPORTUNITY OF SERVING YOU.

VERY TRULY YOURS,

CORE LABORATORIES, INC.


DAVID C. MONK FOR
DALE E. BOYLE
DISTRICT MANAGER

SOHIO PETROLEUM COMPANY
RUSCH NO. 'AB' NO. 1 WELL
FILE NO: 3402-10723

PROCEDURE PAGE

HANDLING AND ANALYTICAL PROCEDURES

DIAMOND CORING EQUIPMENT AND WATER BASE MUD WERE USED TO OBTAIN 3.5 INCH DIAMETER CORES BETWEEN 2916 AND 2936 FEET.

THE CORES WERE PRESERVED AT THE WELL SITE IN PLASTIC BAGS BY CLIENT REPRESENTATIVE.

CORES WERE TRANSPORTED TO OKLAHOMA CITY VIA MOTOR FREIGHT.

A CORE GAMMA LOG WAS RECORDED FOR DOWNHOLE E-LOG CORRELATION.

CORE ANALYSIS WAS MADE IN THE INTERVALS REQUESTED ON RIGHT CYLINDER FULL DIAMETER SAMPLES.

FLUID REMOVAL WAS ACCOMPLISHED USING VACUUM RETORTS.

POROSITY WAS DETERMINED BY DENSITY BALANCE METHOD.

AIR PERMEABILITY IN TWO HORIZONTAL DIRECTIONS-MEASURED WITHOUT KLINKENBERG CORRECTION.

TEMPORARY STORAGE OF CORES IN OKLAHOMA CITY LABORATORY AWAITING ADDITIONAL INSTRUCTIONS.

DISTRIBUTION OF FINAL REPORT -

SOHIO PETROLEUM COMPANY
Rusch No. "AB" 1 Well
Russell County, Kansas
CLI File 3402-10723

2 cc - SOHIO PETROLEUM COMPANY
Attn: Mr. W. H. Ward
P. O. Box 30
Casper, Wyoming 82602

2 cc - SOHIO PETROLEUM COMPANY
Attn: P. J. Martin
50 Penn Place - Suite 1100
Oklahoma City, Oklahoma 73118

1 cc - FRANCIS WHISLER
837 East First Street
Russell, Kansas 67665



COMPANY SOHIO PETROLEUM COMPANY FILE NO. 3402-10723
 WELL RUSCH NO. 'AB' 1 DATE 6/3/81
 FIELD SOUTH FAIRPORT FORMATION PLATTSMOUTH ELEV. _____
 COUNTY RUSSELL STATE KANSAS DRLG. FLD. WATER BASE MUD CORES _____
 LOCATION _____

CORRELATION COREGRAPH

These analyses, opinions or interpretations are based on observations and material supplied by the client to whom, and for whose exclusive and confidential use, this report is made. The interpretations or opinions expressed represent the best judgment of Core Laboratories, Inc., (all errors or omissions excepted); but Core Laboratories, Inc., and its officers and employees, assume no responsibility and make no warranty or representations as to the productivity, proper operation, or profitability of any oil, gas or other mineral well or sand in connection with which such report is used or relied upon.

VERTICAL SCALE: 5" = 100'

Total Water _____
 PERCENT PORE SPACE
 100 80 60 40 20

Oil Saturation _____
 PERCENT PORE SPACE
 0 20 40 60 80 100

Gamma Ray
 RADIATION INCREASE →

Permeability _____
 MILLIDARCIES
 1000 100 10 1

Porosity _____
 PERCENT
 30 20 10 0

