

WE

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

OCTOBER 1, 1980

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

KRM PETROLEUM
817 17TH STREET - SUITE 820
DENVER, COLORADO 80202

ATTN: MR. COPE LANDIS

SUBJECT: CORE ANALYSIS DATA
GIRK NO. 1 WELL
COMANCHE COUNTY, KANSAS
CLI FILE 3402-10338

GENTLEMEN:

CORES TAKEN IN THE SUBJECT WELL 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.

DATA AVERAGES REFLECTING ZONE CHANGES ARE PRESENTED ON PAGE TWO ALONG WITH CERTAIN INTERPRETIVE COMMENTS OF INTEREST.

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

VERY TRULY YOURS,

CORE LABORATORIES, INC.

Jack R. Good

JACK R. GOOD FOR
DALE E. BOYLE, DISTRICT MANAGER

5 CC - ADDRESSEE

KRM PETROLEUM
GIRK NO. 1 WELL
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PROCEDURE PAGE

HANDLING AND ANALYTICAL PROCEDURES

DIAMOND CORING EQUIPMENT AND WATER BASE MUD WERE USED TO OBTAIN 3.5 INCH DIAMETER CORES BETWEEN 4792 AND 4804 FEET.

THE CORES WERE NOT PRESERVED.

CORES TRANSPORTED TO OKLAHOMA CITY BY CLIENT REPRESENTATIVE.

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

PLUG ANALYSIS WAS MADE IN INTERVALS REQUESTED.

FLUID REMOVAL WAS ACCOMPLISHED USING HIGH TEMPERATURE RETORTS.

POROSITY WAS DETERMINED BY SUMMATION-OF-FLUIDS TECHNIQUE.

HORIZONTAL AIR PERMEABILITY ON PLUGS MEASURED WITHOUT KLINKENBERG CORRECTION.

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

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
 DALLAS, TEXAS

KRM PETROLEUM
 GIRK NO. 1 WELL
 COMANCHE COUNTY, KANSAS

DATE: 9/30/80
 FORMATION:
 DRUG. FLUID: WATER BASE MUD
 LOCATION: SEC. 36-33N-20W

FILE NO: 3402-10338
 ENGINEER: BOYLE
 ELEVATION:

SMP. NO.	DEPTH	PERM. TO AIR MD. PLUG	POROSITY PERCENT	FLUID SATS. OIL WTR.	GR. DEN.	DESCRIPTION
CONVENTIONAL ANALYSIS						
1	4792.0-93.0	<0.1	8.7	0.0 18.4		LM, SL/SHY
2	4793.0-94.0	296.0	17.5	19.3 16.7		LM, FOSS
3	4794.0-95.0	100.0	17.6	14.1 24.2		LM, FOSS
4	4795.0-96.0	<0.1	3.9	14.9 26.5		LM, FOSS
5	4796.0-97.0	20.0	19.7	15.7 23.5		LM, FOSS
6	4797.0-98.0	<0.1	2.0	0.0 54.4		LM, SL/SHY
	4798.0-04.0					LM, SHY

These analyses, opinions or interpretations are based on observations and materials 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 and omissions excepted); but Core Laboratories, Inc. and its officers and employees, assume no responsibility and make no warranty or representation 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.

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

CORE SUMMARY

Company KRM PETROLEUM
Well GIRK NO. 1
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<u>Depth, Feet</u>	<u>Horizontal Permeability, Md.</u>	<u>Porosity, Percent</u>	<u>Saturation</u>		<u>Productivity</u>	<u>Comments</u>
			<u>Oil</u>	<u>Water</u>		
4792-93	<0.1	8.7	0.0	18.4	Nonprod	Very low matrix K - low ϕ
4793-95	198	17.6	16.7	20.5	Oil	Good K & ϕ
4795-96	<0.1	3.9	14.9	26.5	Oil*	Very low matrix K & ϕ
4796-97	20	19.7	15.7	23.5	Oil	Good K & ϕ
4797-98	<0.1	2.0	0.0	54.4	Nonprod	Very low matrix K & ϕ

* May require successful formation treatment to establish commercial flow rates.