

CORE ANALYSIS REPORT

FOR

KANSAS LAND INVESTMENT, INC.
WOODHEAD NO. 58 WELL
DOUGLAS COUNTY, KANSAS

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
TULSA, OKLAHOMA

August 12, 1985

REPLY TO
7304 EAST 38TH STREET
TULSA, OKLAHOMA
74145

Kansas Land Investment, Inc.
222 East Third
Ottawa, Kansas 66067

Attn: Mr. Jim Mietchen

Subject: Core Analysis Report
Woodhead No. 58 Well
Douglas County, Kansas
CLI File 3408-850179

Gentlemen:

Cores taken in the subject well in the Squirrel Sand formation were received at the Tulsa laboratory for special analytical testing described on the Procedure Page.

The accompanying Coregraph presents binomially averaged core analysis data in graphical form to aid correlation with downhole electrical surveys.

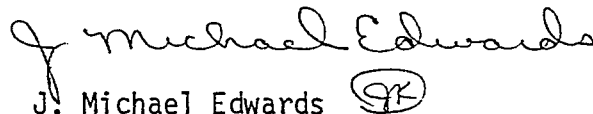
Tabular presentation of the measured physical properties may be found on page one of this report.

Histograms of porosity and permeability in addition to a graph of permeability versus porosity may be found on pages two and three.

It is a pleasure to have this opportunity of serving you.

Very truly yours,

CORE LABORATORIES, INC.



J. Michael Edwards
District Manager



JME:jk

5 cc - Addressee

Kansas Land Investment, Inc.
Woodhead No. 58 Well
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Procedure Page

Handling and Analytical Procedures

Diamond coring equipment and air were used to obtain 2-1/8 inch diameter cores between 700.0 and 711.0 feet.

The cores were preserved at the well site in plastic bags by client representative.

The cores were transported to Tulsa by bus.

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 Tulsa laboratory for a period of thirty days without additional charge.

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

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KANSAS LAND INVESTMENT, INC.
WOODHEAD NO. 58 WELL
DOUGLAS COUNTY, KANSAS

DATE : 8-12-85
FORMATION : SQUIRREL SAND
DRLG. FLUID: AIR
LOCATION :

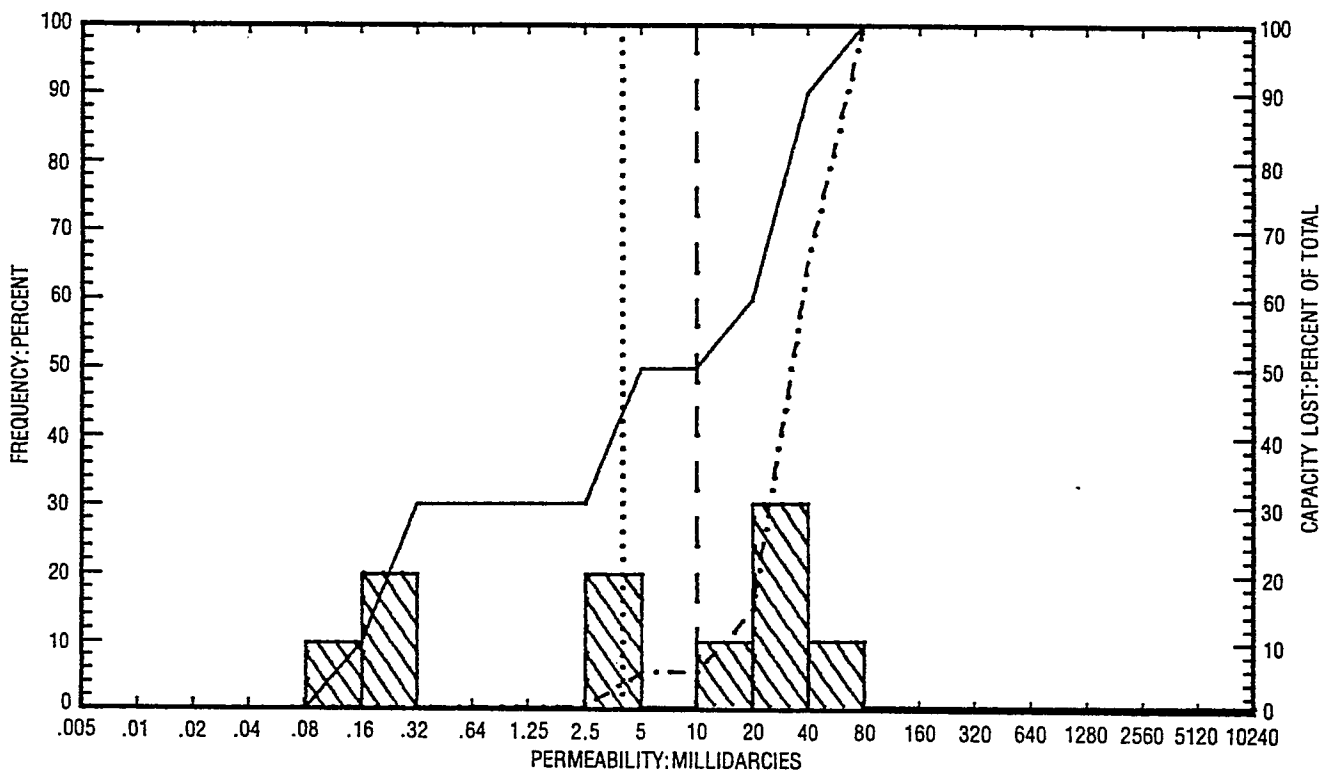
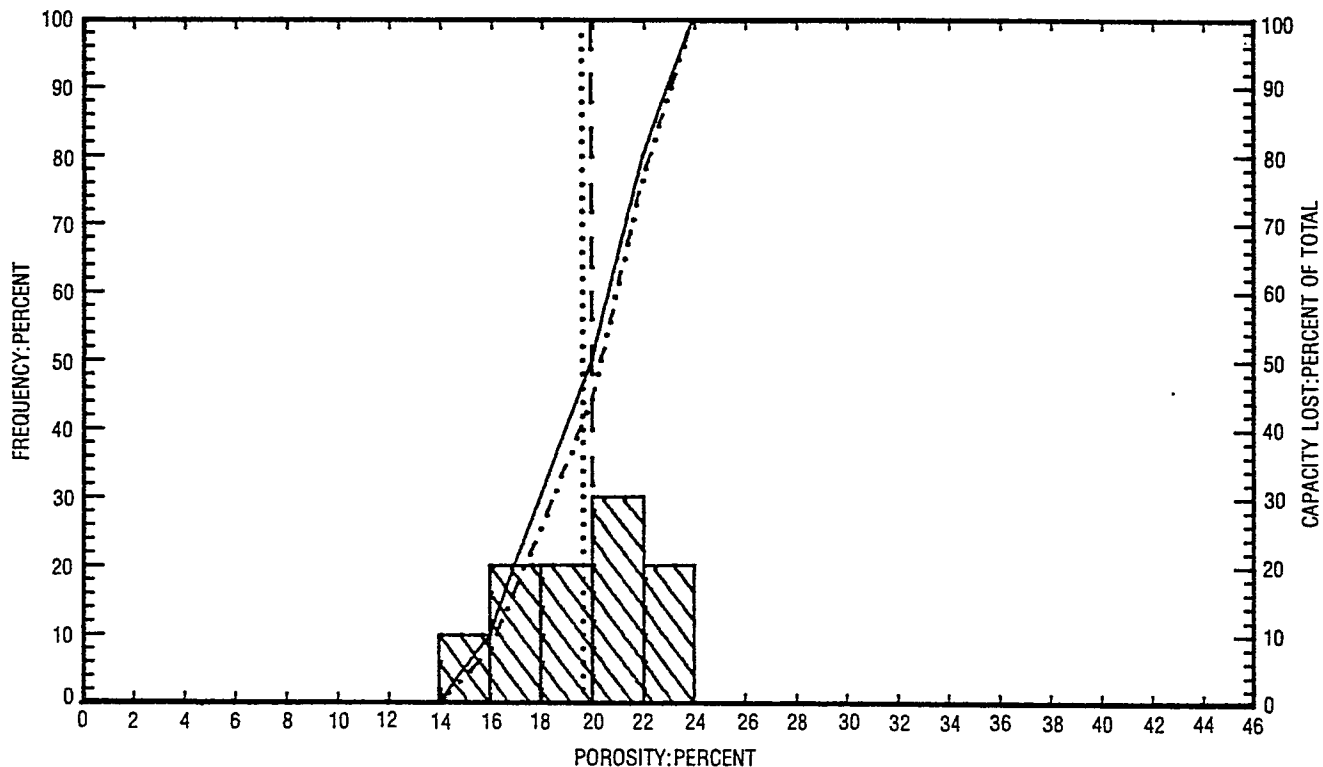
FILE NO. : 3408-850179
API NO. :
LABORATORY: TULSA, OKLAHOMA

CONVENTIONAL PLUG ANALYSIS

SAMPLE NUMBER	DEPTH FEET	PERM PLUG	FLD POR	OIL% POR	WTR% POR	DESCRIPTION
1	700.0- 1.0	0.20	16.6	10.8	67.5	SH SDY MICA
2	701.0- 2.0	0.16	17.8	16.6	57.2	SD FN GRN V/SLTY SHY MICA
3	702.0- 3.0	0.09	15.5	7.1	77.3	SD FN GRN V/SLTY SHY MICA
4	703.0- 4.0	4.0	23.7	28.2	47.0	SD FN GRN V/SLTY SHY MICA
5	704.0- 5.0	26. }	22.4	31.0	37.0	SD FN GRN SL/CALC MICA
6	705.0- 6.0	31. }	21.2	36.0	36.0	SD FN GRN SL/CALC MICA
7	706.0- 7.0	15. }	21.7	34.6	37.7	SD FN GRN SL/CALC MICA
	707.0- 8.0					LM SDY
8	708.0- 9.0	4.1	18.5	28.6	41.0	SD FN GRN SH LAMS MICA
9	709.0-10.0	56. }	20.4	33.4	33.4	SD FN GRN SL/CALC MICA
10	710.0-11.0	25. }	18.2	30.8	43.6	SD FN GRN SL/CALC MICA

5.0 20.8 33.2 35.5

32.5



PERMEABILITY AND POROSITY HISTOGRAMS

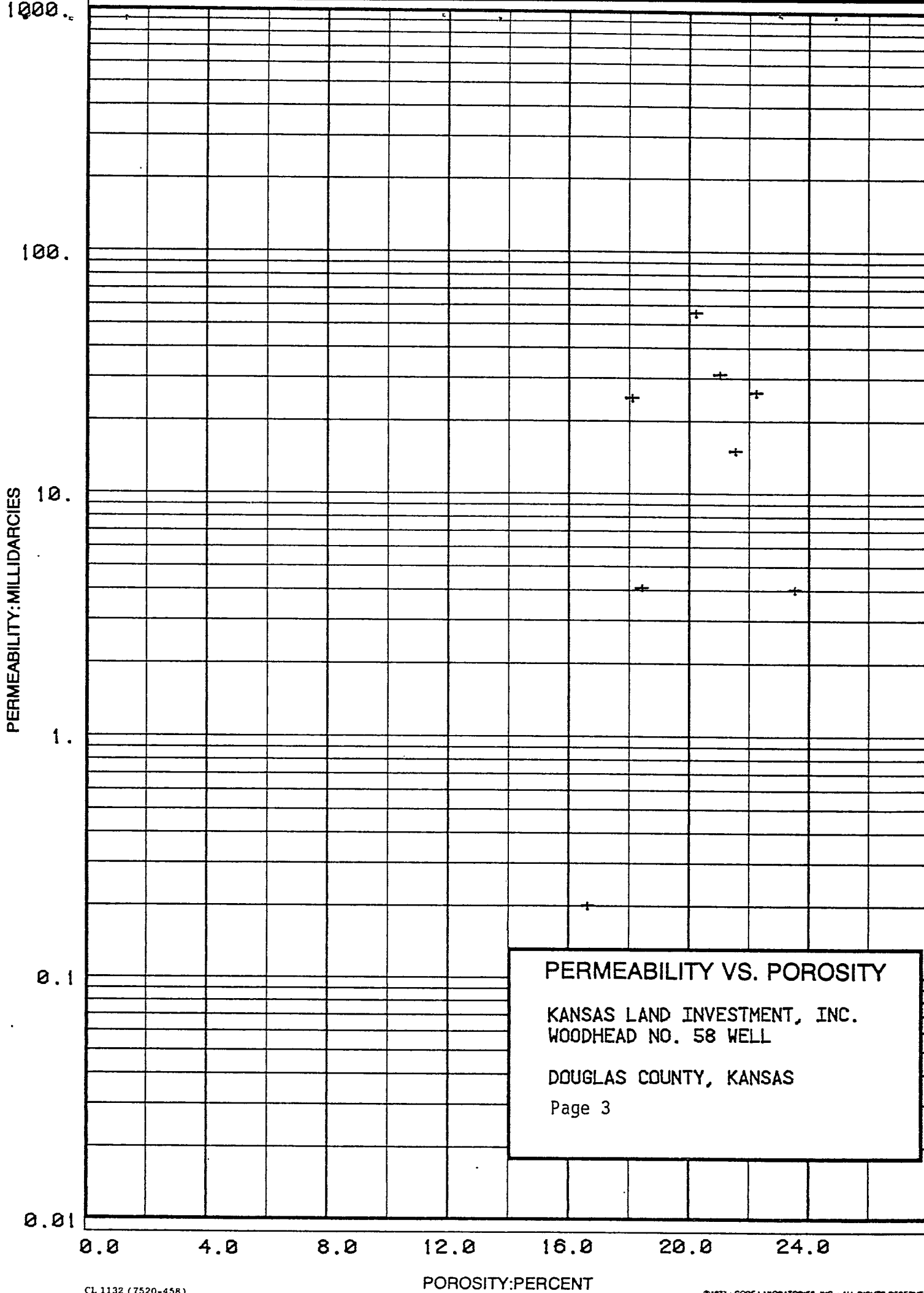
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KANSAS LAND INVESTMENT, INC.
WOODHEAD NO. 58 WELL

DOUGLAS COUNTY, KANSAS

LEGEND

ARITHMETIC MEAN POROSITY	
GEOMETRIC MEAN PERMEABILITY	
MEDIAN VALUE	-----
CUMULATIVE FREQUENCY	————
CUMULATIVE CAPACITY LOST	- - - - -



CORE LABORATORIES, INC.*Petroleum Reservoir Engineering*

COMPANY KANSAS LAND INVESTMENT, INC. FILE NO. 3408-850179
WELL WOODHEAD NO. 58 WELL DATE 8-12-85
FIELD _____ FORMATION SQUIRREL SAND ELEV. _____
COUNTY DOUGLAS COUNTY STATE KANSAS DRLG. FLD. AIR 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'

Gamma Ray

RADIATION INCREASE →

Permeability _____

MILLIDARCIES

Porosity _____

PERCENT

Total Water _____

PERCENT PORE SPACE

100 80 60 40 20 0

Oil Saturation _____

PERCENT PORE SPACE

0 0 20 40 60 80 100

1000 100 10 1
Depth
Feet
650

700

750

