

EXTRA COPY

CORE ANALYSIS REPORT

FOR

LADD PETROLEUM CORPORATION
WIDMER ~~WIDNER~~ NO. 1-17 WELL
CLARK COUNTY, KANSAS

SEC 17 - 30S - 25W

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering

OKLAHOMA CITY, OKLAHOMA

October 5, 1982

REPLY TO
SUITE 133
400 SOUTH VERMONT
OKLAHOMA CITY, OK
73108

Ladd Petroleum Corporation
Box 2848
Tulsa, Oklahoma 74101

Attn: Mr. Lanny Butner

Subject: Core Analysis Data
Widner No. 1-17 Well
Clark County, Kansas
CLI File 3402-11438

Gentlemen:

Cores taken in the subject well in the Morrow Sand 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 pages one and two of this report.

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

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

Very truly yours,

CORE LABORATORIES, INC.



J. Michael Edwards
District Manager

JME:jk

3 cc - Addressee

Ladd Petroleum Corporation
Widner No. 1-17 Well
CLI File 3402-11438

Procedure Page

Handling and Analytical Procedures

Diamond coring equipment and water base mud were used to obtain 3 1/2 inch diameter cores between 5,300.0 and 5,337.0 feet.

The cores were preserved at the well site in a CO₂ atmosphere by CLI personnel.

The cores were transported to Oklahoma City by CLI personnel.

A Core-Gamma Log was recorded for downhole electric 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 was measured without Klinkenberg correction.

Cores were cut in half for future geological study.

Cores have been shipped to:

Ladd Petroleum Corporation
522 S. Boston
Tulsa, Oklahoma 74101
Attn: Mr. Lanny Butner

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

PAGE 1

LADD PETROLEUM CORPORATION
WIDNER NO. 1-17 WELL

CLARK COUNTY, KANSAS

DATE: 10-4-82
FORMATION: MORROW SAND
DRLG. FLUID: WATER BASE MUD
LOCATION: NW NE SEC. 17-30S-25W

FILE NO: 33402-11438
ANALYST: EDWARDS
LABORATORY: OKLAHOMA CITY

FULL DIAMETER ANALYSIS

SMP. NO.	DEPTH FEET	PERM. TO AIR MD. MAXIMUM 90 DEG.		POROSITY PERCENT	FLUID OIL	SATS. WATER	GRAIN DEN.	DESCRIPTION
	5300.0- 2.0							SH, LMY
1	5302.0- 3.0	<0.01	<0.01	0.9	0.0	21.7	2.72	LM, FOSS
+ 2	5303.0- 4.0	9.10	2.10	3.3	0.0	82.5	2.73	LM, FOSS, SHY
+ 3	5304.0- 5.0	*	6.40	5.3	0.0	87.3	2.74	LM, FOSS, SHY
+ 4	5305.0- 6.0	1.50	1.20	2.7	0.0	79.9	2.72	LM, FOSS, SHY
+ 5	5306.0- 7.0	1.20	0.67	1.5	0.0	57.8	2.72	LM, FOSS, VF
+ 6	5307.0- 8.0	27	2.60	1.4	0.0	65.7	2.72	LM, FOSS, VF
7	5308.0- 9.0	0.98	0.16	1.0	0.0	57.1	2.71	LM, FOSS, VF
8	5309.0-10.0	1.60	0.03	1.1	0.0	45.0	2.72	LM, FOSS, VF
9	5310.0-11.0	756	<0.01	1.3	0.0	50.8	2.73	LM, FOSS, VF
10	5311.0-12.0	1096	<0.01	1.0	0.0	47.2	2.71	LM, FOSS, SHY, VF
+ 11	5312.0-13.0	4.50	1.20	2.3	0.0	77.5	2.73	LM, SLTY, SHY, VF
12	5313.0-14.0	0.01	0.01	0.7	0.0	34.8	2.72	LM, FOSS, VF
	5314.0-17.0							SH
13	5317.0-18.0	0.39	0.21	1.6	0.0	54.6	2.73	LM, FOSS, SHY
14	5318.0-19.0	0.66	0.28	0.9	0.0	42.5	2.71	LM, FOSS
15	5319.0-20.0	0.33	0.15	1.7	0.0	61.2	2.72	LM, FOSS, SHY
+ 16	5320.0-21.0	1.50	1.40	1.7	0.0	80.9	2.71	LM, FOSS, SHY, VF
+ 17	5321.0-22.0	0.22	0.02	1.2	0.0	58.4	2.71	LM, FOSS
18	5322.0-23.0	0.02	0.01	0.8	0.0	41.0	2.71	LM, FOSS, VF
19	5323.0-24.0	0.14	0.08	0.7	0.0	23.1	2.71	LM, FOSS, VF
20	5324.0-25.0	*	0.02	1.1	0.0	47.8	2.71	LM, FOSS, SHY, VF
21	5325.0-26.0	*	0.02	1.0	0.0	54.7	2.71	LM, FOSS, VF
22	5326.0-27.0	*	0.02	1.5	0.0	75.0	2.70	LM, FOSS, VF
	5327.0-28.0							SH
23	5328.0-29.0	0.09	0.09	5.8	0.0	90.6	2.68	SD, SLTY, SL/LMY, PYR
24	5329.0-30.0	5.80	2.20	8.8	0.0	80.2	2.67	SD, SLTY, SL/LMY, PYR, V

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CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

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LADD PETROLEUM CORPORATION
WIDNER NO. 1-17 WELL

DATE: 10-4-82
FORMATION: MORROW SAND

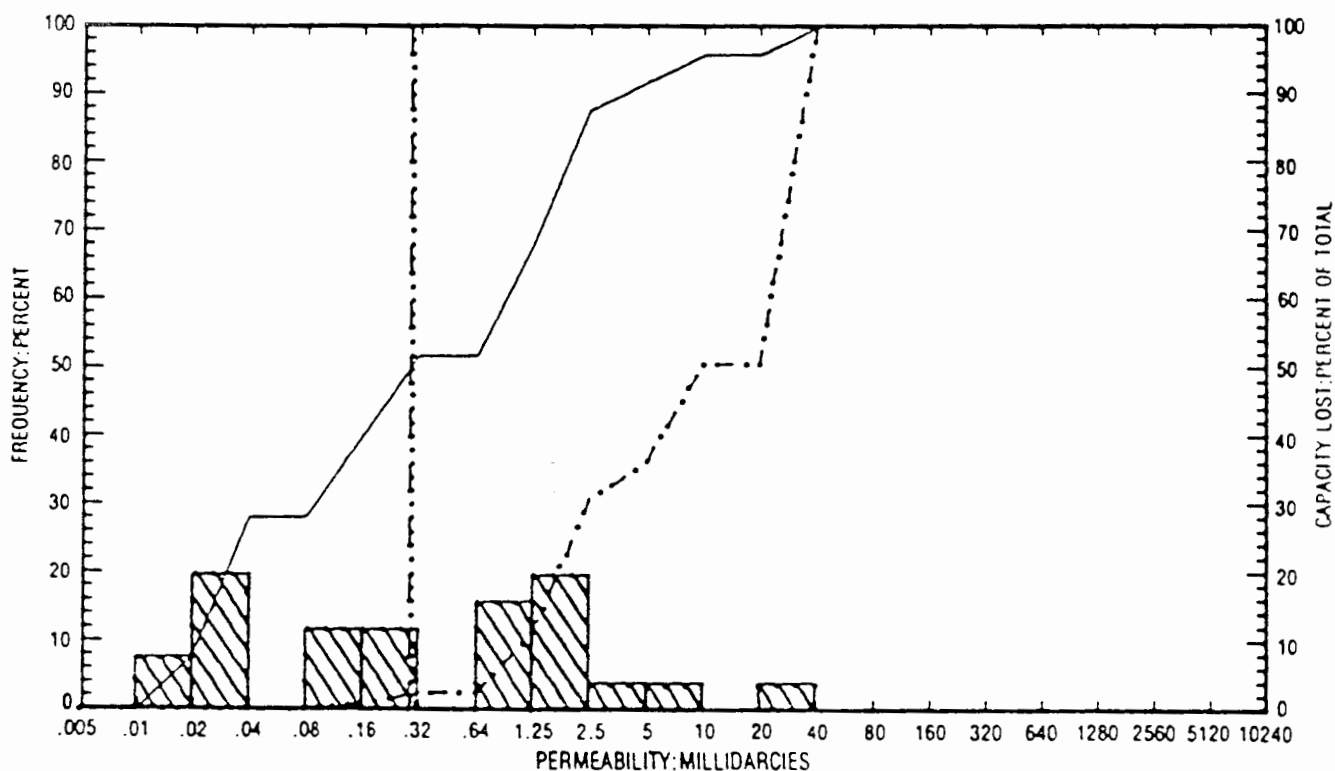
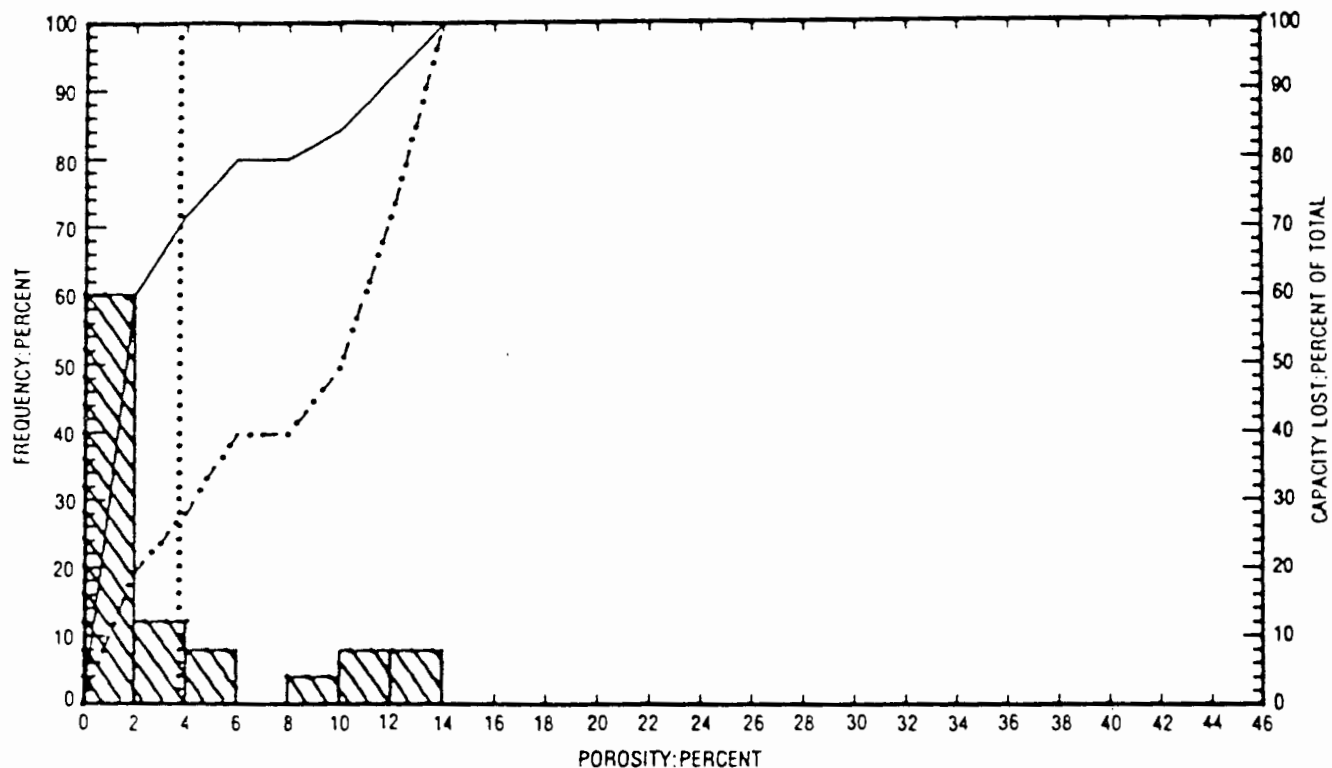
FILE NO: 33402-11438
ANALYST: EDWARDS

FULL DIAMETER ANALYSIS

SMP. NO.	DEPTH FEET	PERM. TO AIR MD.		POROSITY PERCENT	FLUID SATS.		GRAIN DEN.	DESCRIPTION
		MAXIMUM	90 DEG.		OIL	WATER		
25	5330.0-31.0	2.40	1.70	10.7	0.0	76.3	2.67	SD,SLTY,SL/LMY,PYR,V
26	5331.0-32.0	1.80	1.30	10.6	0.0	79.0	2.66	SD,SLTY,SL/LMY
27	5332.0-33.0	1.00	0.87	13.0	0.0	88.6	2.67	SD,SLTY,SL/LMY,PYR,V
+ 28	5333.0-34.0	22	22	13.6	0.0	94.5	2.71	SD,SLTY,SL/LMY,PYR,S
	5334.0-35.0							SH
	5335.0-5337.0	LOST CORE						

* DENOTES PLUG PERM

+ DENOTES HORIZONTAL CRACKS



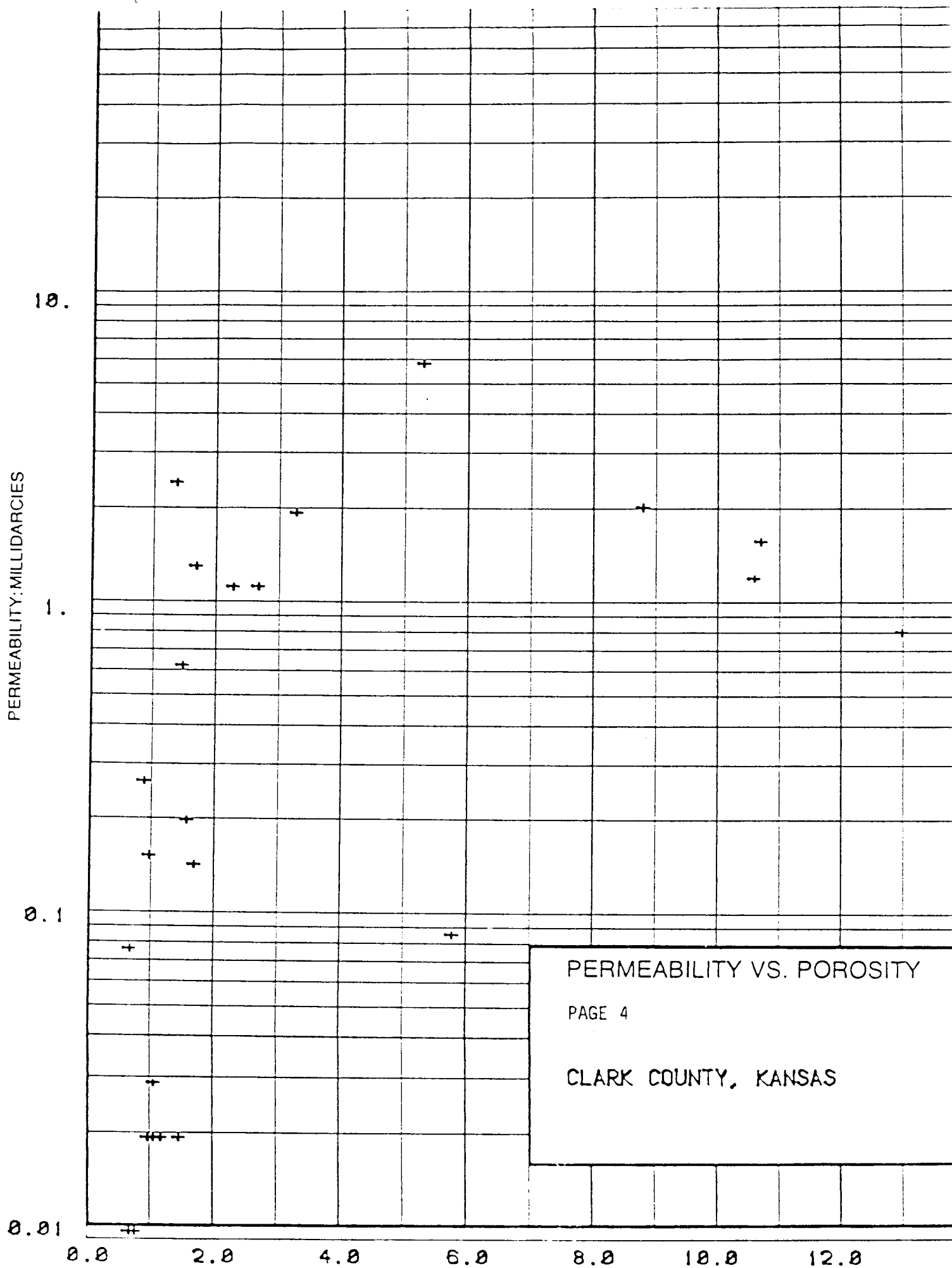
PERMEABILITY AND POROSITY HISTOGRAMS PAGE 3

LADD PETROLEUM CORPORATION
WIDNER NO. 1-17 WELL

CLARK COUNTY, KANSAS

LEGEND

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



LAB

CORE LABORATORIES, INC.

Petroleum Reservoir Engineering

COMPANY LADD PETROLEUM CORPORATION FILE NO. 3402-1143P
 WELL WIDNER NO. 1-17 DATE 10/5/82
 LOCATION CLARK STATE KANSAS FORMATION MORROW SAND ELEV. _____
 DRILLING FLUID WATER BASE MUD CORES _____
 SECTION NW NE SEC. 17-30S-25W

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 interpretation 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 representation as to the productivity, proper operation, or profitability of any oil, gas or other mineral well or land in connection with which such report is used or relied upon.

VERTICAL SCALE 50' 100'

Gamma Ray

RADIATION INCREASE →

Permeability

MILLIDARCIES

Porosity

PERCENT

Total Water

PERCENT PORE SPACE

100 80 60 40 20

Oil Saturation

PERCENT PORE SPACE

100 80 60 40 20

