

17-16-10W

API #15-053-20 239

CORE ANALYSIS RESULTS

Company R. M. EDWARDS Formation ARBUCKLE File CP-1-7557
 Well MATTOUSH NO. 3 Core Type DIAMOND Date Report 3-3-72
 Field STOLTENBERG Drilling Fluid WATER BASE MUD Analysts BOYLE
 County ELLSWORTH State KANSAS Elev. _____ Location C NW SE SEC. 17-16S-10W

Lithological Abbreviations

SAND - SD DOLOMITE - DOL ANHYDRITE - ANHY SANDY - SDY FINE - FN CRYSTALLINE - XLN BROWN - BRN FRACTURED - FRAC SLIGHTLY - SL
 SHALE - SH CHERT - CH CONGLOMERATE - CONG SHALY - SHY MEDIUM - MED GRAIN - GRN GRAY - GY LAMINATION - LAM VERY - V/
 LIME - LM GYPSUM - GYP FOSSILIFEROUS - FOSS LIMY - LMY COARSE - CSE GRANULAR - GRNL VUGGY - VGY STYLOLITIC - STY WITH - W/

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCYS		POROSITY PER CENT	RESIDUAL SATURATION PER CENT PORE		SAMPLE DESCRIPTION AND REMARKS
		PERM. MAX.	PERM. 90°		OIL	TOTAL WATER	
WHOLE CORE ANALYSIS							
1	3358-59	<0.1	<0.1	3.2	7.1	75.0	Dol, few small vugs
2	59-60	0.7	0.7	15.7	5.0	81.7	Dol, sucrosic, silty
3	60-61	11	0.1	13.9	12.3	75.3	Dol, sucrosic, silty, vert frac
4	61-62	57	42	10.0	11.7	56.3	Dol, vuggy, fissures
	62-63	0.9	0.7	6.1	12.1	66.7	Dol, sl/vuggy, cherty
6	63-64	2.8	0.5	6.9	8.5	68.1	Dol, pp vugs
7	64-65	7.5	1.8	9.7	7.7	60.6	Dol, vuggy, v/cherty
8	65-66	12	7.0	6.0	5.7	77.1	Dol, pp vugs, sl/cherty
9	66-67	0.2	0.1	10.9	2.7	75.3	Dol, few pp vugs, sl/cherty
	3367-68						Shale
10	68-69	2.3	1.5	12.9	4.3	75.3	Dol, few pp vugs, sl/cherty
11	69-70	23	20	10.6	4.0	72.0	Dol, few pp vugs, sl/cherty
12	70-71	7.7*		10.0	8.8	69.4	Dol, oolitic, sl/vuggy, few fissures
13	71-72	29	8.3	11.0	9.2	65.8	Dol, sl/shy, pp vugs, few fissures
14	72-73	<0.1	<0.1	2.5	0.0	66.7	Dol, sl/shy, sl/vuggy
15	73-74	<0.1	<0.1	2.9	0.0	81.8	Dol, sl/shy, few vugs
16	74-75	0.1*		4.4	3.8	73.1	Dol, sl/shy, sl/vuggy
17	75-76	0.8	0.1	4.4	6.7	63.3	Dol, few pp vugs, few fissures

* DENOTES PLUG PERMEABILITY

PRELIMINARY REPORT

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 representations, as to the productivity, proper operations, or profitableness of any oil, gas or other mineral well or sand in connection with which such report is used or relied upon.