

CORE LABORATORIES, INC.

Petroleum Reservoir Engineering

DALLAS, TEXAS

Page No. 1

LA-2011

Company CHARLES B. READ File WP-3-3141
 Well STATE NO 1 (CWDD) Date 3-25-69
 Well QUAIL RIDGE Elevation _____
 Locality LEA State NEW MEXICO Drilling Fluid WATER BASE MUD
 Location _____

Lithological Abbreviations

SAND-SS	DOLOMITE-DOL	ANHYDRITE-ANHY	SANDY-SDY	FINE-FN	CRYSTALLINE-XLN	BROWN-URN	FRACTURED-FRAC	SLIGHTLY-SL/
SILT-CH	CHERT-CHT	CONGLOMERATE-CONG	SHALY-SHY	MEDIUM-MED	GRAIN-GN	GRAY-GRY	LAMINATED-LAM	VERY-V/
LIME-LM	GYP-SUM-GYP	FOSSILIFEROUS-FO	LIMY-LMY	COARSE-CRSE	GRANULAR-GNR	VUGGY-VGY	STYLOLITIC-STYC	WITH-W/

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCYS		POROSITY PERCENT	RESIDUAL SATURATION PERCENT PORE		DESCRIPTION
		MAX	90°		OIL	WATER	

CONVENTIONAL ANALYSIS

CORE NO. 1 5062-5107

5062.0-63.0							DOL
63.0-68.0							SS, SHY
5068.0-69.0	3.6		19.1	21.4	49.2		SS
69.0-70.0	0.9		11.3	10.6	70.8		SS
70.0-71.0	1.7		18.1	12.7	61.3		SS
71.0-72.0	0.5		18.4	15.2	54.3		SS
72.0-74.0							DOL, SHY
74.0-78.0							SS
78.0-79.0	0.2		10.1	8.9	55.4		SS
79.0-82.0							SS
82.0-93.0							DOL
93.0-95.0							SS, SHY
95.0-96.0	2.4		12.7	10.2	48.8		SS
96.0-97.0	2.0		15.1	10.0	63.6		SS
97.0-98.0	0.8		16.8	8.9	59.5		SS
5098.0-99.0	0.1		12.0	0.0	78.3		SS
5099.0-06.0							DOL

5106.0-07.0 LOST CORE

CORE NO. 2 5170-5228

5170.0-89.0							DOL
89.0-93.0							SS, SHY
93.0-99.0							SS
5199.0-08.0							SS, DOL
5208.0-28.0							DOL

CORE NO. 3 5228-5285

5228.0-31.0							SS, SHY
31.0-48.0							DOL
48.0-55.0							SS
55.0-56.0							ANHY
56.0-61.0							DOL
61.0-62.0							ANHY
62.0-64.0							SH, SDY

These analyses, readings or interpretations are based on observations and materials supplied by the client to whom, and for whose exclusive and confidential use, they are 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 profitability of any oil, gas or other mineral well or field in connection with which such report is used or relied upon.

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DALLAS, TEXAS

Page No. 2

A-2011

Company CHARLES E. READ File WP-3-3141
 Well STATE NO. 1 (OWDD) Date 3-25-69
 Well QUAIL RIDGE Elevation _____
 County LEA State NEW MEXICO Drlg. Fluid WATER BASE MUD
 Location _____

Lithological Abbreviations

SAND-SS	DOLOMITE-DOL	ANHYDRITE-ANHY	SANDY-SDY	FINE-FN	CRYSTALLINE-XLN	BROWN-BRN	FRACTURED-FRAC	SLIGHTLY-SL/
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LIME-LM	GYPSUM-GYP	FOSSILIFEROUS-FO	LIMY-LMY	COARSE-CRSE	GRANULAR-GNR	VUGGY-VGY	STYLOLITIC-STYC	WITH-W/

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCYS		POROSITY PERCENT	RESIDUAL SATURATION PERCENT PORE		DESCRIPTION
		MAX	90°		OIL	WATER	
	5264.0-66.0						DCL
	5266.0-67.0						ANHY
	67.0-85.0						DOL
	CORE NO. 4 5285-5307						
	5285.0-86.0						DOL
	86.0-01.5						SS
	01.5-07.0						DOL



CORE LABORATORIES, INC.

Petroleum Reservoir Engineering

COMPANY CHARLES B. READ FIELD QUAIL RIDGE FILE WP-3-3141
 WELL STATE NO. 1 (OWDD) COUNTY LEA DATE 3-24-69
 LOCATION _____ STATE NEW MEXICO ELEV. _____

CORE-GAMMA CORRELATION

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VERTICAL SCALE: 5" = 100'

CORE-GAMMA SURFACE LOG

PATENT NO. 2686266

GAMMA RAY

RADIATION INCREASE →

COREGRAPH

TOTAL WATER ———

PERCENT TOTAL WATER

80 60 40 20 0

PERMEABILITY ———

MILLIDARCYS

100 50 10 5 1 0.5 0.1

POROSITY ———

PERCENT

20 10

OIL SATURATION ———

PERCENT PORE SPACE

0 20 40 60 80

