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ROTARY SIDEWALL CORE ANALYSIS

CML EXPLORATION, LLC
PADDY 15 STATE No.2
LEA COUNTY, NEW MEXICO

A.P.I. NUMBER : 30-025-40075
FIELD : Leamex; Paddock
LOCATION: 1980' FNL, 2310' FEL,
Section 15, T-17-S, R-33-E

FILE NO. : MD-51319
DATE : March 30, 2011
ANALYSTS : WH, SB, JR

DEAN STARK EXTRACTION

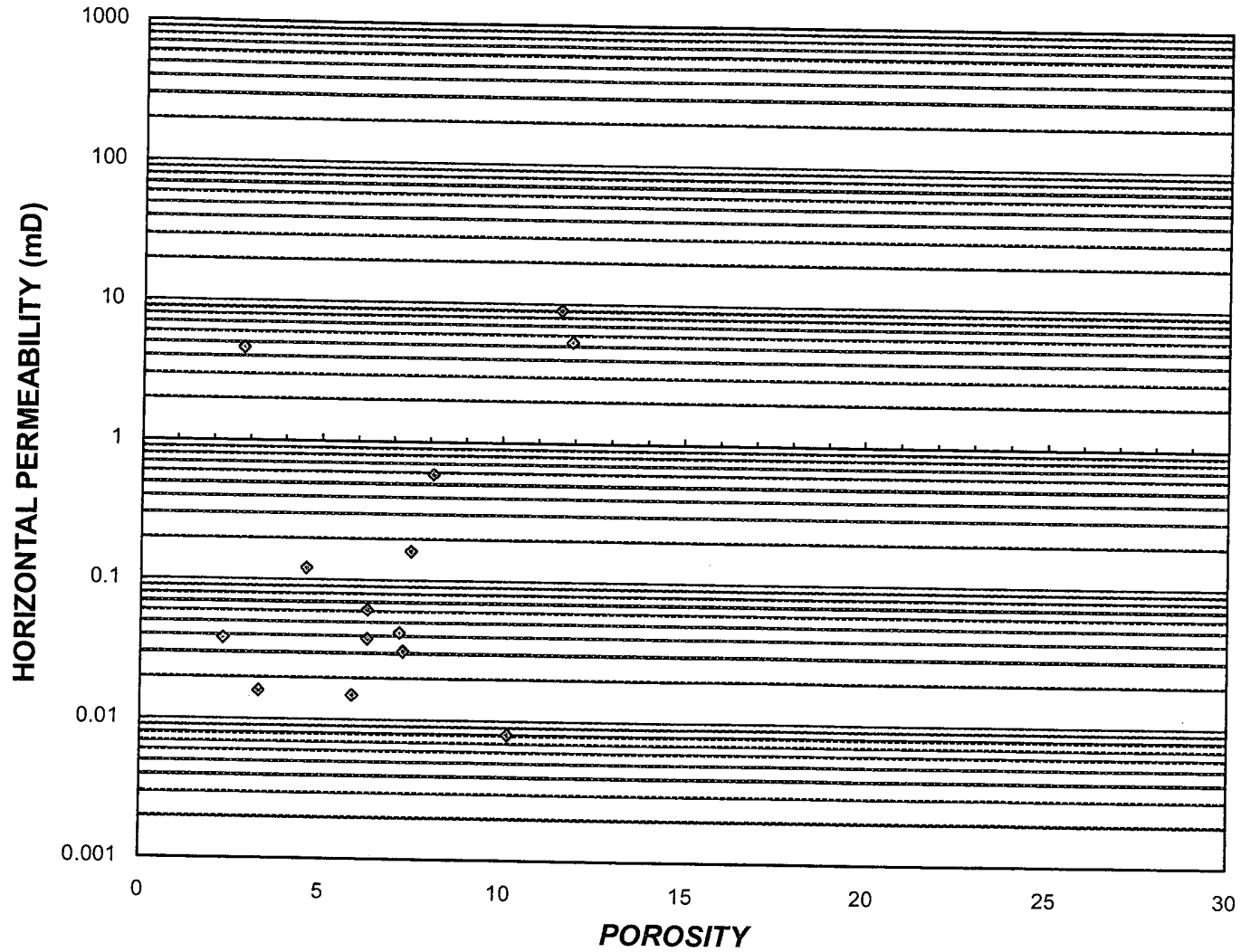
SAMPLE NO.	DEPTH ft	GRAIN DENSITY	POR %	PERM mD	SATURATIONS		GAS UNITS	FLUORESCENCE		LITHOLOGY
					Sw	So		%		
1	6086.0	2.84	3.3	0.016	53.4	9.2	44	20	Brt yl-bl	Dol crm-tn-brn ssly tr ppp-sml vug sc A/I frac
2	6088.0	2.84	11.9	5.275	50.2	21.3	383	40	Brt yl-bl	Dol crm-tn-brn ssly suc i/p sc ppp-sml vug sc A/I frac
3	6091.0	2.86	2.8	tbfa	33.9	Tr	15	10	Brt yl-bl	Dol crm-tn-brn ssly tr ppp-sml vug sc A/I sc frac
4	6095.0	2.84	6.3	0.061	79.6	Tr	49	10	Brt yl-bl	Dol crm-tn ssly sc ppp-sml vug sc A/I
5	6098.0	2.84	11.6	8.946	11.2	21.5	529	80	Brt yl-bl	Dol tn-brn ssly ssdy suc i/p abd ppp-sml vug sc A/I
6	6101.0	2.85	8.1	0.580	10.6	19.9	835	80	Brt yl-bl-gld	Dol tn-brn ssly ssdy suc i/p sc ppp-sml vug sc A/I
7	6112.0	2.85	2.3	0.038	18.0	16.7	219	60	Yl gld	Dol crm-tn-brn ssly tr ppp-sml vug sc sml A/I frac sty
8	6162.0	2.85	3.3	<.001	66.3	0.0	0	0	Cont	Dol crm-tn-brn ssly tr ppp-sml vug sc A/I
9	6181.0	2.83	4.6	0.121	9.0	14.6	412	80	Brt yl-bl	Dol tn-brn ssly sc ppp-sml vug
10	6187.0	2.85	2.8	4.546	28.5	11.0	116	30	Brt yl-bl-gld	Dol tn-brn ssly sc ppp-sml vug sc sml A/I frac sty
11	6189.0	2.85	5.4	<.001	13.4	12.4	614	80	Brt yl-bl-gld	Dol tn-brn ssly ppp-sml vug sc A/I
12	6209.0	2.86	5.9	0.015	10.7	14.5	397	70	Yl gld	Dol tn-brn ssly ppp-sml vug sc A/I
13	6210.0	2.85	6.3	0.038	10.4	13.7	546	80	Yl gld	Dol tn-brn ssly ppp-sml vug sc A/I
14	6215.0	2.87	7.2	0.042	11.1	12.8	383	80	Yl gld	Dol tn-brn ssly ppp-sml vug sc A/I
15	6271.0	2.84	4.5	<.001	37.8	10.5	54	20	DI yl-gld	Dol tn-brn ssly sc ppp-sml vug sc A/I
16	6282.0	2.84	6.5	<.001	79.2	0.0	0	0	Mf	Dol tn-brn-gy ssly sc ppp-sml vug sc A/I sc pyr sc slty intrbd
17	6302.0	2.84	7.5	0.162	89.4	0.0	0	0	Mf	Dol crm-tn-brn ssly sc sml vug sc A/I hal
18	6307.0	2.86	3.5	<.001	63.7	Tr	17	Tr	Gld/frac	Dol brn ssly sc sml A/I sc slty incl
19	6327.0	2.85	10.2	0.008	30.9	8.0	82	20	Yl-dl yl	Dol brn ssly ppp-sml vug
20	6328.0	2.83	7.3	0.031	14.3	16.6	345	40	Yl-dl yl	Dol brn ssly sc ppp-sml vug sc sml A/I

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4/1/2011

QUALITY CONTROL RERUN DATA

Sample No.	GRAIN DENSITY		POROSITY		<i>k</i> standard Test Sample	PERMEABILITY	
	original	reruns	original	reruns		original	reruns
1	2.839	2.839	3.33	3.31			
5	2.841	2.843	11.60	11.66	2.619	8.946	8.935
8	2.847	2.846	3.27	3.24			
11	2.853	2.851	5.37	5.31		<.001	<.001
14	2.866	2.865	7.15	7.14			
17	2.839	2.838	7.49	7.46		0.162	0.163
20	2.828	2.827	7.31	7.27	2.612	0.031	0.027