



30-025-39737

RECEIVED

AUG 30 2010

HOBBSOCD

ROTARY SIDEWALL CORE ANALYSIS REPORT

FOR

CML EXPLORATION, LLC

ABENAKI '10' STATE # 1

LEA COUNTY, NEW MEXICO

CML EXPLORATION, LLC
ABENAKI '10' STATE # 1
LEA COUNTY, NEW MEXICO
U.S.A.
File: MD-47875



July 8, 2010

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AUG 30 2010

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CML EXPLORATION, LLC

1105 Lubbock Hwy.
Snyder, TX. 79549

Attn: NOLAN von ROEDER

RE: ABENAKI '10' STATE # 1

Rotary Sidewall Core Analysis

Mr. von ROEDER:

The core analysis data from the above referenced well is enclosed in the following pages.

All quality control data is enclosed in a separate section of the report. The data, results, and photographic negatives will be maintained in our files for your future reference. If you have any questions regarding our results or procedures, please do not hesitate to contact us. We appreciate the opportunity to analyze the core from the above referenced well and look forward to working with you again in the future.

DISTRIBUTION

CML EXPLORATION, LLC

Attn: NOLAN von ROEDER
1105 Lubbock Hwy.
Snyder, TX. 79549
3 Copies of the Report (1 with Photographs and 1 CD-ROM)

CML EXPLORATION, LLC

Attn: KENNETH NELSON
Barton Oaks Plaza 1, Suite 430
901 Mopac Expressway South
Austin, TX. 78746
2 Copies of the Report (1 with Photographs and 1 CD-ROM)

CML EXPLORATION, LLC

Attn: RICK ALBIN
1004 N. Big Spring, Suite 523
Midland, TX. 79701
2 Copies of the Report (1 with Photographs)

Sincerely,

A handwritten signature in black ink, appearing to read "Wayne Helms".

Wayne Helms, General Manager
Weatherford Laboratories

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CONOCOPHILLIPS

Attn: TED BRAIN
600 N. Dairy Ashford Rd.
WL2-Room 13090
Houston, TX. 77079
1 Copy of the Report with Photographs and 1 CD-ROM

CERES RESOURCE PARTNERS L.P.

Attn: MR. CASEY McMANEMIN
3838 Oak Lawn Ave., Suite 425
Dallas, TX. 75219
1 Copy of the Report

HIGHLAND (TEXAS) ENERGY COMPANY

Attn: MR. TRUITT MATTHEWS
7557 Rambler Road, Suite 918
Dallas, TX. 75231-2306
1 Copy of the Report with Photographs and 1 CD-ROM

MR. KENNETH BARBE, JR.

P.O. Box 2107
Roswell, NM. 88202-2107
1 Copy of the Report

CACTUS ENERGY, INC.

Attn: MR. RICHARD COATS
P.O. Box 2412
Midland, TX. 79702
1 Copy of the Report

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CORE ANALYSIS PROCEDURES
FOR
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The Rotary Sidewalls were picked up by Weatherford Laboratories.

Gases from the Sidewalls were measured by Hot Wire Chromatography and reported in Gas Units.

A brief Lithological Description of the Sidewalls was recorded.

A description of the Fluorescence of the Sidewalls was recorded.

Ultraviolet Light Photographs were taken of the Sidewalls for a permanent record.

Natural Light Photographs were taken of the Sidewalls for a permanent record.

Composite Photographs of the Sidewall End Trims were taken under Natural and Ultraviolet Light.

The Sidewalls were extracted utilizing the Dean Stark method.

The fluids were measured by the Dean Stark method.

Porosities were measured in a Boyle's Law Porosimeter utilizing Helium.

Permeabilities were measured in a Hassler Sleeve Permeameter utilizing Nitrogen at 300 psi confining pressure.

Test samples of a known permeability were measured before and after the Sidewall permeabilities were measured.

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ROTARY SIDEWALL CORE ANALYSIS

CML EXPLORATION LLC.
ABENAKI 10 STATE NO.1
LEA COUNTY, NEW MEXICO

A.P.I. NUMBER : 30-025-39737
FIELD : Sanmal (Penn)
LOCATION: 1980' FWL, 800' FSL,
Section 10, T-17-S, R-33-E

FILE NO. : MD-47875
DATE : July 1, 2010
ANALYSTS : WH, SB, JR

DEAN STARK EXTRACTION

SAMPLE NO.	DEPTH ft	GRAIN DENSITY	POR %	PERM mD	SATURATIONS		GAS UNITS	FLUORESCENCE		LITHOLOGY
					Sw	So		%		
1	5142.0	2.85	14.5	7.715	40.1	23.8	31	90	DI yl-gld	Dol tn-brn ssly sdy abd ppp-sml vug
2	5160.0	2.84	20.5	71.957	74.9	0.0	4	0	Mf	Dol tn-brn ssly sdy abd ppp-sml vug sc sml A/I
3	5203.0	2.84	14.6	8.914	73.9	Tr	4	Tr	Mf	Dol tn-brn ssly sdy abd ppp-sml vug sc sml A/I
4	5210.0	2.84	15.0	5.056	57.3	12.5	5	60	DI yl-gld	Dol tn-brn-gy ssly sc ppp-sml vug foss
5	6102.0	2.87	5.0	0.056	15.9	24.5	143	70	BrY yl-gld	Dol gy ssly sc sml vug
6	6113.0	2.88	9.1	1.083	12.9	16.5	348	90	BrY yl-gld	Dol gy-tn ssly sc ppp-sml vug sc sml A/I
7	6117.0	2.87	8.1	0.143	35.6	20.6	98	30	BrY yl-gld	Dol gy-tn ssly sc ppp-sml vug sc sml A/I s/p
8	6122.0	2.88	7.6	1.556	42.7	10.8	8	30	DI yl-gld	Dol gy-tn ssly sc ppp-sml vug sc sml A/I
9	6212.0	2.89	7.4	0.048	41.8	15.5	58	40	DI yl-gld	Dol tn-brn ssly sc ppp-sml vug sc sml A/I
10	6228.0	2.88	7.6	0.202	26.9	15.6	192	90	DI yl-gld	Dol tn-gy ssly sc ppp-sml vug sc sml A/I
11	6237.0	2.87	13.3	5.139	35.0	30.5	392	90	DI yl-gld	Dol tn-brn ssly ssdy sc ppp-sml vug
12	10176.0	2.83	16.5	4.134	70.2	0.0	7	0	Mf	Dol tn-brn mod-ssly ssdy sc sml A/I
13	10181.0	2.81	12.2	0.321	65.9	0.0	5	0	Mf	Dol tn-gy mod-ssly ssdy tr sml vug
14	10257.0	2.71	4.5	0.017	49.3	0.0	0	0	Mf	Ls tn-gy ssly sc ppp-sml vug sc foss
15	10258.0	2.72	7.4	0.154	12.4	15.8	374	80	BrY yl-gld	Ls crm-tn ssly sc ppp-sml vug sc foss
16	10271.0	2.71	9.3	1.970	12.3	25.2	310	90	BrY yl-gld	Ls crm-tn ssly sc ppp-sml vug foss
17	10272.0	2.72	9.3	1.075	14.8	29.7	212	90	BrY yl-gld	Ls crm-tn ssly sc ppp-sml vug foss
18	10407.0	2.71	15.5	71.065	36.6	15.0	20	50	BrY yl-gld	Ls crm-tn ssly abd ppp-sml vug foss
19	10408.0	2.73	9.1	15.466	38.7	15.7	9	50	BrY yl-gld	Ls crm-tn ssly sc ppp-sml vug foss



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ROTARY SIDEWALL CORE ANALYSIS

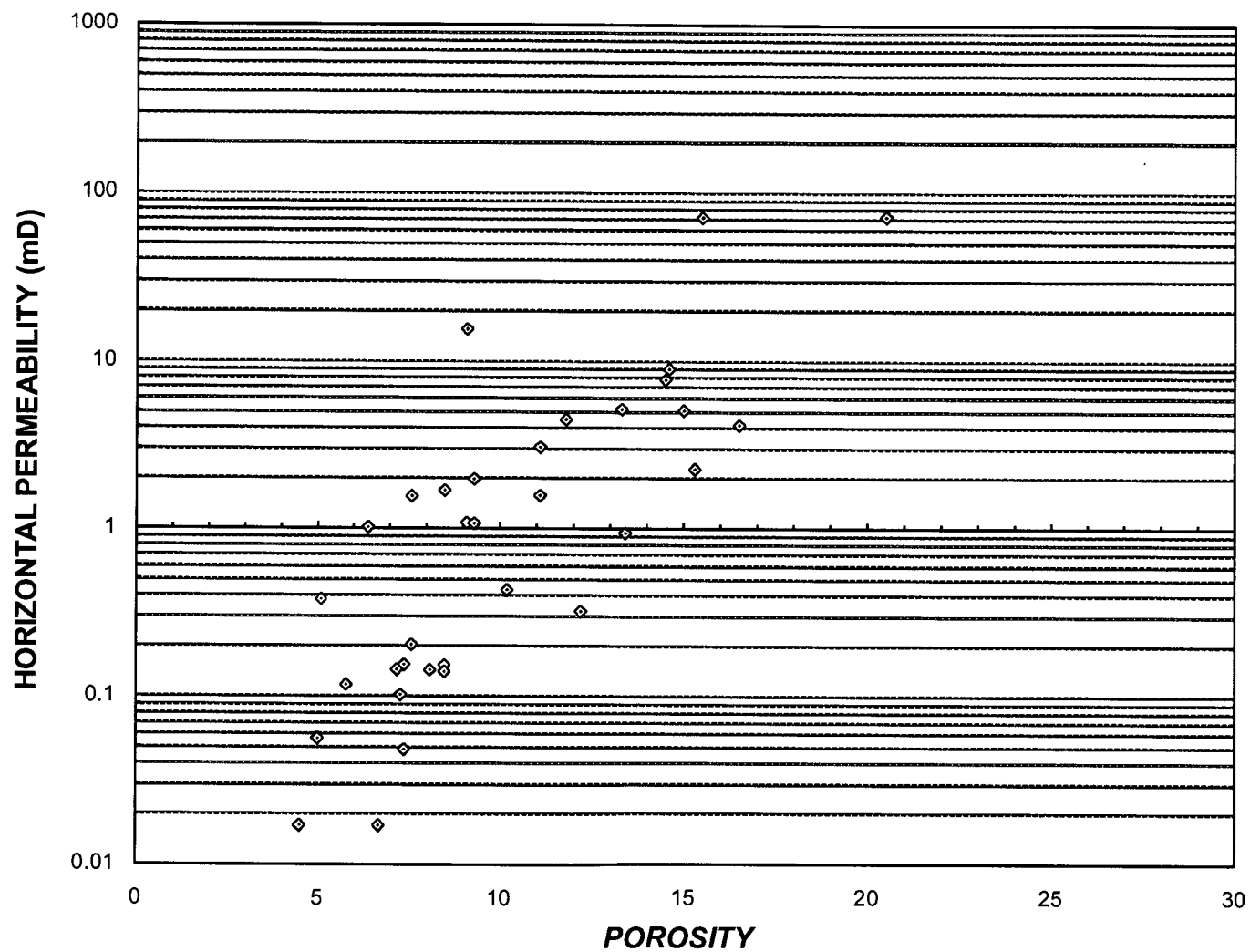
CML EXPLORATION LLC.
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SAMPLE NO.	DEPTH ft	GRAIN DENSITY	POR %	PERM mD	SATURATIONS		GAS UNITS	FLUORESCENCE		LITHOLOGY
					Sw	So		%		
20	10632.0	2.70	8.5	0.153	17.9	30.5	288	70	Brt yl-gld	Ls crm-tn ssly sc ppp-sml vug sc foss
21	10634.0	2.70	15.3	2.260	18.9	23.8	283	80	Brt yl-gld	Ls crm-tn ssly abd ppp-sml vug foss
22	10638.0	2.71	6.7	0.017	48.8	12.1	36	30	Brt yl-gld	Ls crm-tn ssly tr ppp-sml vug sc foss
23	10642.0	2.73	11.8	4.454	16.0	21.6	455	90	Brt yl-gld	Ls crm-tn ssly sc ppp-sml vug foss
24	10675.0	2.71	7.2	0.144	46.1	3.7	0	10	Brt yl-gld	Ls crm-tn-brn ssly sc ppp-sml vug foss
25	10677.0	2.72	11.1	1.574	36.1	11.7	35	70	Brt yl-gld	Ls crm-tn ssly sc ppp-sml vug foss
26	10809.0	2.86	13.4	0.941	46.2	18.1	33	30	Brt yl-gld	Dol crm-tn-wht ssly sdy tr ppp sc sml A/I
27	10992.0	2.82	18.5	tbfa	26.4	12.7	85	70	Brt yl-gld	Ls tn-brn ssly abd ppp-sml vug sc A/I
28	11048.0	2.83	5.1	0.376	13.1	15.2	489	90	Brt yl-bl	Dol tn-brn ssly ssdy
29	11061.0	2.76	10.2	0.429	15.5	16.5	216	80	Brt yl-bl	Ls tn-brn-gy ssly sc ppp-sml vug foss
30	11070.0	2.72	8.5	0.140	36.6	13.3	20	60	Brt yl-bl	Ls crm-tn-gy ssly sc ppp-sml vug foss
31	11074.0	2.75	8.6	tbfa	22.4	7.8	100	80	Brt yl-bl	Ls crm-tn-gy ssly sc ppp-sml vug sc foss
32	11097.0	2.82	8.5	1.685	12.3	14.3	203	90	Brt yl-bl	Ss opaq-tn f-crsgr sbrnd-sbang ssly
33	11104.0	2.81	13.0	tbfa	21.7	10.1	169	90	Brt yl-bl	Ss opaq-tn f-crsgr sbrnd-sbang ssly
34	11108.0	2.71	5.8	0.117	6.4	4.4	141	60	Brt yl-bl	Ls gy-brn ssly sc ppp-sml vug sc foss
35	11128.0	2.71	11.1	3.053	25.6	9.9	202	80	Brt yl-bl	Ls crm-tn-brn ssly sc ppp-sml vug foss
36	11130.0	2.71	7.3	0.102	43.3	7.9	77	60	Brt yl-bl	Ls crm-tn-brn ssly sc ppp-sml vug sc foss
37	11134.0	2.75	6.4	1.016	26.1	4.7	6	10	Brt yl-bl	Ls crm-tn-brn ssly sc ppp-sml vug sc foss sty





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ABENAKI 10 STATE NO.1
7/15/201'0

QUALITY CONTROL RERUN DATA

Sample No.	GRAIN DENSITY		POROSITY		<i>k</i> standard Test Sample	PERMEABILITY	
	original	reruns	original	reruns		original	reruns
2	2.841	2.839	20.53	20.47	2.611	71.957	72.004
4	2.842	2.843	14.97	15.00			
7	2.873	2.873	8.13	8.14		0.143	0.144
9	2.889	2.890	7.44	7.47			
12	2.833	2.833	16.48	16.47		4.134	4.162
15	2.717	2.717	7.40	7.39			
17	2.722	2.721	9.26	9.24		1.075	1.079
19	2.729	2.730	9.05	9.09			
22	2.708	2.708	6.70	6.73		0.017	0.020
25	2.715	2.716	11.15	11.17			
27	2.819	2.817	18.53	18.48			
28	2.832	2.833	5.10	5.15		0.376	0.381
30	2.716	2.715	8.47	8.44			
32	2.823	2.821	8.48	8.41		1.685	1.681
34	2.710	2.710	5.83	5.84			
36	2.712	2.713	7.29	7.35		0.102	0.103

LITHOLOGICAL ABBREVIATIONS

Anhydrite (-ic)	anhy, anhyd	Filled	fd	Poor	pr
Anhydrite inclusion	A/I	Fine (-ly)	f, fnly	Pyrite	pyr
Bentonite (-ic)	bent	Fluorescence	flu	Quartz (-itic)	qtz
Black (-ish)	blk, blksh	Fossil (-iferous)	foss	Red	rd
Bleeding Oil	B/O	Fracture	frac	Round	rnd
Brecciated	brec	Fragments	frag	Residual Oil	So
Bright	brt	Friable	fri	Residual Water	Sw
Brittle	brit	Fusulinid	fus	Sample	Spl
Broken	brkn	Gilsonite	gil	Sandstone	Ss
Brown	brn	Gold	gld	Sandy	sdly
Buff	bf	Good	gd	Scattered	sc
Calcite (-ic)	calc, calctc	Grain (-s)	gr	Shaley	shy
Calcareous	calc	Granular	gran	Shale	sh
Carbonaceous	carb	Gray	gy	Shale parting	s/p
Cement	cmt	Gypsum	gyp	Silt (-y)	slt, slty
Chalk (-y)	chk, chky	Hair line(frac)	hl	Slight (-ly)	sli, s
Chert	cht	Halite	hal	Small	sml
Clay	cl	Inclusion	incl	Spotted (-y)	sp
Coal	c	Laminations (ated)	lam	Stringer	strgr
Coarse	crs	Large	lrg	Stylolite (-itic)	sty, styl
Conglomerate	cgl	Light	lt	Sucrosic	suc
Consolidated	consol	Limestone	ls	Sulphur	su
Contaminated	contam	Limey	lmy	Tan	tn
Crinoid (-al)	crin, crinal	Lithology	lith	Too broken	tbfa
Cross-bedded	x-bd	Medium	m	(for Analysis)	
Crystal (-line)	Xl, xln	Mineral Fluorescence	mf	Thin	thn
Dark	dk	Moderate	mod	Trace	Tr
Dense	dns	Mudcake	m/c	Very	v
Diameter	dia	No Show	N/S	Vertical	vert, vt
Dolomite (ic)	dol, dolm	Oolite (-itic)	ool	Vug (-gy)	vug
Dull	dl	Pale	pl		
Faint	fnt	Permeability	Perm, K		
Fair	fr	Pin-Point Porosity	ppp		