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LABORATORIES

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ROTARY SIDEWALL CORE ANALYSIS REPORT

FOR

PB ENERGY STORAGE SERVICES, INC.

DCP ZIA AGI # 1

LEA COUNTY, NEW MEXICO

PB ENERGY STORAGE SERVICES, INC.
DCP ZIA AGI # 1
LEA COUNTY, NEW MEXICO
U.S.A.
File: MD-75950



Weatherford®
LABORATORIES

February 18, 2015

PB ENERGY STORAGE SERVICES, INC.

16200 Park Row, Suite 200
Houston, TX. 77084

Attn: RUSSELL BENTLEY

RE: DCP ZIA AGI # 1

Rotary Sidewall Core Analysis

Mr. BENTLEY:

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

digital images 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

PB ENERGY STORAGE SERVICES, INC.

Attn: RUSSELL BENTLEY
16200 Park Row, Suite 200
Houston, TX. 77084

1 Copy of the report with photographs and 1 USB Drive

DCP MIDSTREAM

Attn: ROBERTO TORRICO
370 17th Street, Suite 2500
Denver, CO. 80202

1 Copy of the report with photographs and 1 USB Drive

GEOLEX, INCORPORATED

Attn: ALBERTO GUTIERREZ
500 Marquette Ave., NW, Suite 1350
Albuquerque, NM. 87102

2 Copies of the report with photographs and 1 USB Drive

MAZZULLO ENERGY CORP.

Attn: LOUIS J. MASSULLO
8000 West Crestline Ave., Suite 1118
Littleton, CO. 80123-0902

1 Copy of the report with photographs and 1 USB Drive

Sincerely,

Wayne Helms, General Manager
Weatherford Laboratories

PB ENERGY STORAGE SERVICES, INC.

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CORE ANALYSIS PROCEDURES
FOR
PB ENERGY STORAGE SERVICES, INC.
DCP ZIA AGI # 1
LEA COUNTY, NEW MEXICO

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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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	sdv
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	Subround	sbrnd
Consolidated	consol	Limestone	ls	Subangular	sbang
Contaminated	contam	Limey	lmy	Sucrosic	suc
Crinoid (-al)	crin, crinal	Lithology	lith	Sulphur	su
Cross-bedded	x-bd	Medium	m	Tan	tn
Crystal (-line)	Xl, xln	Mineral Fluorescence	mf	Too broken (for Analysis)	tbfa
Dark	dk	Moderate	mod	Thin	thn
Dense	dns	Mudcake	m/c	Trace	Tr
Diameter	dia	No Show	N/S	Tripolitic	trip
Dolomite (ic)	dol, dolm	Oolite (-itic)	ool	Very	v
Dull	dl	Pale	pl	Vertical	vert, vt
Faint	fnt	Permeability	Perm, K	Vug (-gy)	vug
Fair	fr	Pin-Point Porosity	ppp		



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LEA COUNTY, NEW MEXICO

A.P.I. NUMBER : 30-025-42208
FIELD : NW Lea County
LOCATION: 2100' FSL, 950' FWL,
Longitude: 103 degrees 48' 40" W Latitude 32 degrees 38' 40" N

FILE NO. : MD-75950
DATE : February 12, 2015
ANALYSTS : WH, SB, JR, ND, FF

DEAN STARK EXTRACTION

SAMPLE NO.	DEPTH ft	GRAIN DENSITY	POR %	PERM mD	SATURATIONS		GAS UNITS	FLUORESCENCE		LITHOLOGY
					Sw	So		%		
1	5550.0	2.88	0.8	<.001	43.5	Tr	4	30	DI gld-dl yl-wht	Dol brn-tn ssilty sc slty intrbd sc lrg anhy nod sc gyp incl
2	5560.0	2.75	2.2	0.030	61.7	9.5	174	50	Brt yl-yl-bl	Dol brn-tn ssilty sc slty intrbd sc sml anhy nod
3	5597.0	2.68	12.8	0.202	39.3	11.7	21	90	DI gld-dl yl	Ss gy-tn-opaq vf-fgr sbang-sbrnd scalc sc slty lam intrbd sc m/c
4	5600.0	2.68	11.9	0.116	47.1	11.2	24	90	DI gld-dl yl	Ss gy-tn-opaq vf-fgr sbang-sbrnd scalc sc slty lam intrbd tr m/c
5	5622.0	2.68	13.0	0.284	47.9	12.4	10	60	DI gld-dl yl	Ss gy-tn-opaq vf-fgr sbang-sbrnd scalc sc slty lam intrbd sc m/c
6	5631.0	2.68	12.8	0.253	46.6	11.7	3	80	DI gld-dl yl	Ss gy-tn-opaq vf-fgr sbang-sbrnd scalc sc slty lam intrbd tr m/c
7	5685.0	2.68	17.2	1.762	43.8	8.6	7	80	Brt yl-dl yl	Ss gy-tn-opaq vf-fgr sbang-sbrnd scalc sc slty intrbd sc m/c
8	5689.0	2.68	18.5	1.743	50.2	7.9	1	90	DI gld-dl yl	Ss gy-tn-opaq vf-fgr sbang-sbrnd scalc sc slty intrbd sc m/c
9	5695.0	2.68	17.4	0.987	54.4	7.5	1	90	DI gld-dl yl	Ss gy-tn-opaq vf-fgr sbang-sbrnd scalc sc slty intrbd sc m/c
10	5705.0	2.69	17.1	0.877	43.7	12.3	3	90	DI gld-dl yl	Ss gy-tn-opaq vf-fgr sbang-sbrnd scalc sc slty intrbd sc m/c
11	5716.0	2.67	17.7	0.903	49.2	11.9	2	90	DI gld-dl yl	Ss gy-tn-opaq vf-fgr sbang-sbrnd scalc sc slty lam intrbd tr m/c
12	5723.0	2.69	16.1	0.307	51.1	11.2	10	90	DI gld-dl yl	Ss gy-tn-opaq vf-fgr sbang-sbrnd scalc sc slty lam intrbd tr m/c
13	5738.0	2.68	12.9	0.301	41.7	14.7	10	90	DI gld-dl yl	Ss gy-tn-opaq vf-fgr sbang-sbrnd scalc sc slty lam intrbd tr m/c
14	5744.0	2.68	15.6	0.183	45.9	11.9	2	90	DI gld-dl yl	Ss gy-tn-opaq vf-fgr sbang-sbrnd scalc sc slty intrbd sc m/c
15	5751.0	2.69	15.9	0.168	41.0	12.3	5	90	DI gld-dl yl	Ss gy-tn-opaq vf-fgr sbang-sbrnd scalc sc slty lam intrbd tr m/c
16	5764.0	2.72	9.7	0.049	40.8	12.7	4	100	DI gld-dl yl	Ss gy-tn-opaq vf-fgr sbang-sbrnd scalc sc slty intrbd sc m/c
17	5792.0	2.70	12.4	0.327	40.2	14.1	1	90	DI gld-dl yl	Ss gy-tn-opaq vf-fgr sbang-sbrnd scalc sc slty intrbd sc m/c
18	5796.0	2.67	15.8	0.508	43.2	10.4	4	90	DI gld-dl yl	Ss gy-tn-opaq vf-fgr sbang-sbrnd scalc sc slty intrbd sc m/c
19	5820.0	2.69	10.7	0.041	47.2	14.2	0	80	DI brn	Ss gy-tn-opaq vf-fgr sbang-sbrnd scalc sc slty intrbd sc m/c
20	5826.0	2.67	12.9	0.104	59.2	11.0	3	80	DI brn-dl yl	Ss gy-tn-opaq vf-fgr sbang-sbrnd scalc sc slty intrbd sc m/c



ROTARY SIDEWALL CORE ANALYSIS

PB ENERGY STORAGE SERVICE, INC.
DCP ZIA AGI # 1
LEA COUNTY, NEW MEXICO

A.P.I. NUMBER : 30-025-42208
FIELD : NW Lea County
LOCATION: 2100' FSL, 950' FWL,
Longitude: 103 degrees 48' 40" W Latitude 32 degrees 38' 40" N

FILE NO. : MD-75950
DATE : February 12, 2015
ANALYSTS : WH, SB, JR, ND, FF

DEAN STARK EXTRACTION

SAMPLE NO.	DEPTH ft	GRAIN DENSITY	POR %	PERM mD	SATURATIONS		GAS UNITS	FLUORESCENCE		LITHOLOGY
					Sw	So		%		
21	5835.0	2.67	13.3	0.054	61.2	12.5	5	90	DI brn	Ss gy-tn-opaq vf-fgr sbang-sbrnd scalc sc slty intrbd sc m/c
22	5841.0	2.66	12.8	0.067	58.8	11.5	3	90	DI brn	Ss gy-tn-opaq vf-fgr sbang-sbrnd scalc sc slty lam intrbd tr m/c
23	5850.0	2.67	12.4	0.098	53.9	12.8	9	90	DI brn-dl yl	Ss gy-tn-opaq vf-fgr sbang-sbrnd scalc sc slty lam intrbd tr m/c
24	5853.0	2.70	10.7	0.038	62.9	9.1	1	90	DI brn-dl yl	Ss gy-tn-opaq vf-fgr sbang-sbrnd scalc sc slty lam intrbd tr m/c
25	5879.0	2.68	11.6	0.094	53.8	14.4	8	90	DI brn	Ss gy-tn-opaq vf-fgr sbang-sbrnd scalc sc slty lam intrbd tr m/c
26	5886.0	2.68	14.7	0.090	60.2	10.1	5	90	DI brn	Ss gy-tn-opaq vf-fgr sbang-sbrnd scalc sc slty lam intrbd tr m/c
27	5893.0	2.67	15.1	0.085	57.2	10.7	0	90	DI brn	Ss gy-tn-opaq vf-fgr sbang-sbrnd scalc sc slty lam intrbd tr m/c
28	5913.0	2.67	12.6	0.190	46.0	11.5	3	90	DI brn	Ss gy-tn-opaq vf-fgr sbang-sbrnd scalc sc slty lam intrbd tr m/c
29	5920.0	2.72	6.8	0.013	52.3	8.4	3	90	DI brn	Ss gy-tn-opaq vf-fgr sbang-sbrnd scalc sc slty lam intrbd tr m/c
30	5928.0	2.65	13.1	0.190	52.9	13.1	11	90	DI brn	Ss gy-tn-opaq vf-fgr sbang-sbrnd scalc sc slty lam intrbd tr m/c
31	5937.0	2.66	12.7	0.110	52.3	16.3	9	90	DI brn	Ss gy-tn-opaq vf-fgr sbang-sbrnd scalc sc slty lam intrbd tr m/c
32	5942.0	2.65	12.8	0.180	48.3	15.5	14	90	DI brn	Ss gy-tn-opaq vf-fgr sbang-sbrnd scalc sc slty lam intrbd tr m/c
33	5965.0	2.66	11.0	0.063	47.8	16.4	0	80	DI brn	Ss gy-tn-opaq vf-fgr sbang-sbrnd scalc sc slty lam intrbd tr m/c
34	5982.0	2.78	6.6	0.004	50.2	7.5	1	90	DI brn / cont	Ss gy-tn-opaq vf-fgr sbang-sbrnd scalc sc slty intrbd sc m/c
35	5989.0	2.67	13.8	0.136	52.5	13.4	1	90	DI brn	Ss gy-tn-opaq vf-fgr sbang-sbrnd scalc sc slty lam intrbd tr m/c
36	5996.0	2.66	15.6	0.126	60.3	9.9	7	90	DI brn	Ss gy-tn-opaq vf-fgr sbang-sbrnd scalc sc slty lam intrbd tr m/c
37	6003.0	2.66	15.5	0.143	53.8	11.3	9	90	DI brn	Ss gy-tn-opaq vf-fgr sbang-sbrnd scalc sc slty lam intrbd tr m/c
38	6008.0	2.66	13.2	0.195	53.1	12.3	9	90	DI brn	Ss gy-tn-opaq vf-fgr sbang-sbrnd scalc sc slty lam intrbd tr m/c
39	6017.0	2.75	7.8	0.011	45.8	8.2	2	90	DI brn-dl gld	Ss gy-tn-opaq vf-fgr sbang-sbrnd scalc sc slty lam intrbd tr m/c
40	6028.0	2.67	11.8	0.152	41.7	14.4	41	50	DI yl-wht-brn	Ss gy-tn-opaq vf-fgr sbang-sbrnd scalc sc slty lam intrbd tr m/c



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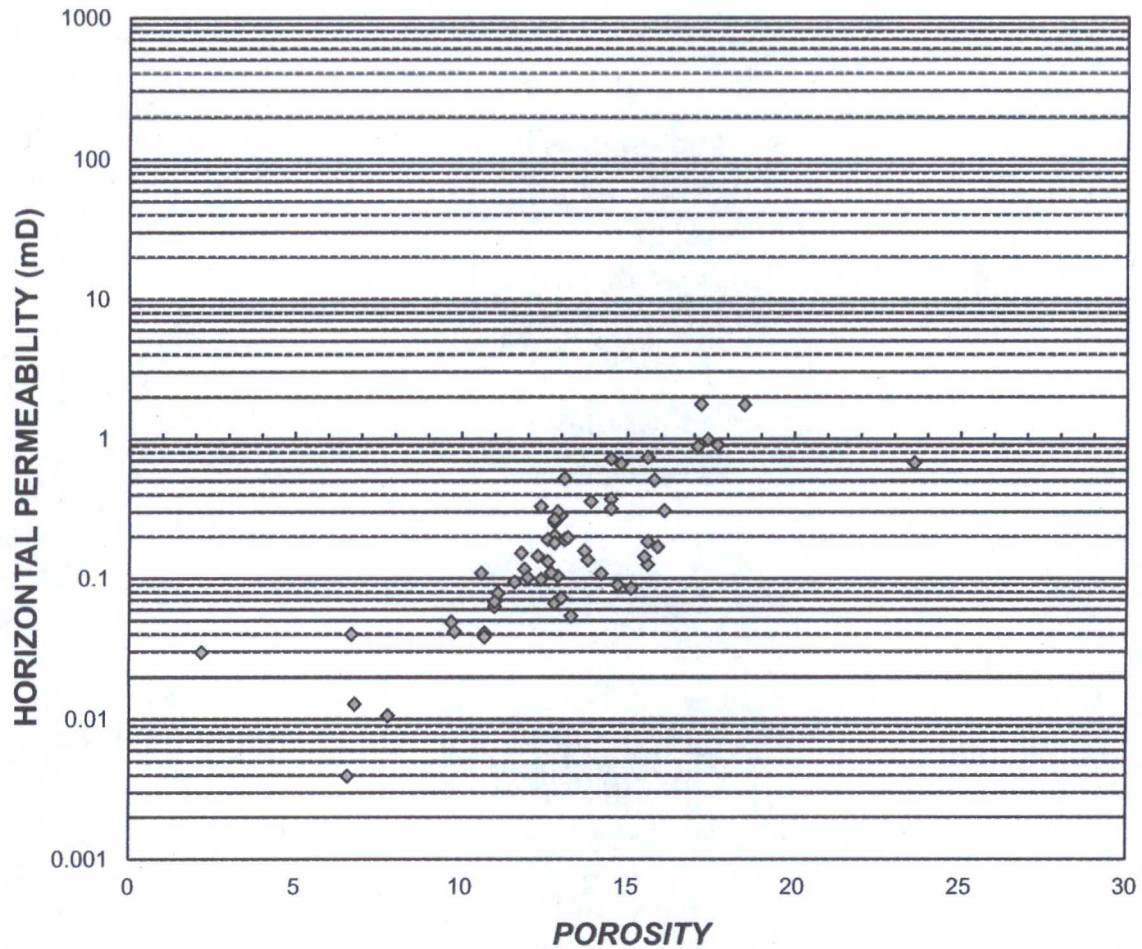
PB ENERGY STORAGE SERVICE, INC.
DCP ZIA AGI # 1
LEA COUNTY, NEW MEXICO

A.P.I. NUMBER : 30-025-42208
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DATE : February 12, 2015
ANALYSTS : WH, SB, JR, ND, FF

DEAN STARK EXTRACTION

SAMPLE NO.	DEPTH ft	GRAIN DENSITY	POR %	PERM mD	SATURATIONS		GAS UNITS	FLUORESCENCE		LITHOLOGY
					Sw	So		%		
41	6034.0	2.66	13.0	0.073	51.0	12.9	10	90	DI brn	Ss gy-tn-opaq vf-fgr sbang-sbrnd scalc sc slty lam intrbd tr m/c
42	6042.0	2.67	14.2	0.108	50.2	10.6	3	90	DI brn	Ss gy-tn-opaq vf-fgr sbang-sbrnd scalc sc slty lam intrbd tr m/c
43	6043.0	2.65	13.7	0.157	56.9	14.0	11	80	DI brn	Ss gy-tn-opaq vf-fgr sbang-sbrnd scalc sc slty lam intrbd tr m/c
44	6064.0	2.66	13.9	0.356	49.0	11.0	7	90	DI brn	Ss gy-tn-opaq vf-fgr sbang-sbrnd scalc sc slty lam intrbd tr m/c
45	6077.0	2.66	12.3	0.144	45.2	12.2	14	70	DI brn	Ss gy-tn-opaq vf-fgr sbang-sbrnd scalc sc slty lam intrbd tr m/c
46	6104.0	2.67	14.5	0.722	46.9	11.6	0	90	DI brn	Ss gy-tn-opaq vf-fgr sbang-sbrnd scalc sc slty lam intrbd tr m/c
47	6110.0	2.67	14.8	0.663	44.6	11.1	0	90	DI brn	Ss gy-tn-opaq vf-fgr sbang-sbrnd scalc sc slty lam intrbd tr m/c
48	6118.0	2.67	12.8	0.265	43.3	11.7	5	80	DI brn	Ss gy-tn-opaq vf-fgr sbang-sbrnd scalc sc slty lam intrbd tr m/c
49	6126.0	2.66	13.1	0.522	40.5	13.9	8	90	DI brn	Ss gy-tn-opaq vf-fgr sbang-sbrnd scalc sc slty lam intrbd tr m/c
50	6133.0	2.67	12.6	0.132	45.9	10.5	1	90	DI brn	Ss gy-tn-opaq vf-fgr sbang-sbrnd scalc sc slty lam intrbd tr m/c
51	6146.0	2.68	9.8	0.042	51.6	8.6	4	90	DI brn	Ss gy-tn-opaq vf-fgr sbang-sbrnd scalc sc slty lam intrbd tr m/c
52	6151.0	2.66	12.0	0.101	49.6	9.1	7	60	DI brn	Ss gy-tn-opaq vf-fgr sbang-sbrnd scalc sc slty lam intrbd tr m/c
53	6165.0	2.66	11.1	0.078	51.8	8.6	17	90	DI brn	Ss gy-tn-opaq vf-fgr sbang-sbrnd scalc sc slty lam intrbd tr m/c
54	6170.0	2.66	11.0	0.068	47.4	11.8	18	90	DI brn	Ss gy-tn-opaq vf-fgr sbang-sbrnd scalc sc slty lam intrbd tr m/c
55	6176.0	2.65	10.6	0.109	46.1	12.4	13	80	DI brn	Ss gy-tn-opaq vf-fgr sbang-sbrnd scalc sc slty lam intrbd tr m/c
56	6194.0	2.66	14.5	0.370	45.2	13.4	6	80	DI brn	Ss gy-tn-opaq vf-fgr sbang-sbrnd scalc sc slty lam intrbd tr m/c
57	6210.0	2.66	14.5	0.316	45.8	11.5	1	90	DI brn	Ss gy-tn-opaq vf-fgr sbang-sbrnd scalc sc slty lam intrbd tr m/c
58	6219.0	2.66	15.6	0.736	40.3	12.5	1	90	DI brn	Ss gy-tn-opaq vf-fgr sbang-sbrnd scalc sc slty lam intrbd tr m/c
59	6232.0	2.66	23.6	0.673	34.3	12.7	3	90	DI brn	Ss gy-tn-opaq vf-fgr sbang-sbrnd scalc sc slty lam intrbd tr m/c
60	6254.0	2.77	6.7	0.040	29.3	11.3	1	90	DI brn	Ss gy-tn-opaq vf-fgr sbang-sbrnd scalc sc slty intrbd sc m/c





Weatherford
LABORATORIES

PB ENERGY STORAGE SERVICE, INC.

DCP ZIA AGI # 1

2/13/2015

QUALITY CONTROL RERUN DATA

Sample No.	GRAIN DENSITY		POROSITY		<i>k</i> standard Test Sample	PERMEABILITY	
	original	reruns	original	reruns		original	reruns
1	2.883	2.883	0.83	0.80	2.747	<.001	<.001
7	2.682	2.681	17.23	17.20		1.762	1.756
12	2.687	2.686	16.13	16.08		0.307	0.305
17	2.698	2.698	12.36	12.34		0.327	0.332
22	2.657	2.658	12.80	12.82		0.067	0.069
27	2.669	2.669	15.05	15.06		0.085	0.086
29	2.724	2.723	6.76	6.73		0.013	0.012
32	2.652	2.651	12.76	12.72		0.180	0.184
37	2.663	2.662	15.54	15.50		0.143	0.144
42	2.667	2.666	14.25	14.20		0.108	0.107
47	2.669	2.670	14.82	14.85		0.663	0.658
52	2.665	2.664	11.99	11.96		0.101	0.100
57	2.663	2.665	14.53	14.57	2.745	0.316	0.319