

Thompson, Pamela J.

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**North Dakota
Court System**

Filing Accepted

Envelope Number: 5275136
Case Number: 08-2023-CV-01338
Case Style: Casey Voigt, et al. vs. North Dakota
Public Service Commission, et al.

The filing below was reviewed and has been accepted by the clerk's office. You may access the file copy of the document filed by clicking on the below link.

Filing Details	
Court	Burleigh County
Case Number	08-2023-CV-01338
Case Style	Casey Voigt, et al. vs. North Dakota Public Service Commission, et al.
Date/Time Submitted	7/19/2023 2:00 PM CST
Date/Time Accepted	7/19/2023 3:43 PM CST
Accepted Comments	
Filing Type	Exhibit
Filing Description	Corrected CR Exhibit 43 - Informal Conference Exhibit Spoil Sample Calculations Worksheet
Activity Requested	EFileAndServe
Filed By	Pamela Thompson
Filing Attorney	John Schuh

Document Details	
Lead Document	Corrected CR Exhibit 43 - Informal Conference Exhibit Spoil Sample Calculations Worksheet.pdf
Lead Document Page Count	3
File Copy	View Document
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Coyote Creek
204 County Rd 15
Beulah, ND 58523

Date Sampled: 06/28/12
Date Received: 07/06/12
Date Reported: 08/14/12

Site: CC12015C

Top of coal 121.25' - 85' (depth removed by dragline) = 36.25'

36.25' falls into 35-40' sample interval (0-40' removed by truck shovel fleet)

↓
40' ÷ 5 = 8 sample intervals above dragline removal depth

8 intervals × 20% = 1.6 → 2 intervals of least desirable material

- Only 1 interval has an SAR > 20 and no interval has coarse texture of sandy loam, loamy sand, or sand. More than one interval has an SAR 12-20.

36" projected respread

604 Highway 15 West
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email: agvise@polarcomm.com
Homepage: www.agvise.com

Ref#	Lab#	Depth	EC	Cat/EC	Ca	Mg	Na	SAR	pH	Texture	Sand	Silt	Clay	Sat. Percent
13251511	36042	0-5 1	5.43	14.95	14.6	27.0	39.5	8.67	7.9	CLAY LOAM	33	30	37	75.9
13251512	36043	5-10 2	8.09	15.37	22.7	39.3	62.3	11.19	7.9	CLAY	23	26	51	102.9
13251513	36044	10-15 3	2.34	9.18	1.3	2.4	17.8	13.05	8.2	CLAY	9	12	79	156.7
13251514	36045	15-20 4	1.90	10.55	1.2	1.8	17.0	13.91	8.0	CLAY	11	32	57	109.5
13251515	36046	20-25 5	1.83	8.14	0.7	1.0	13.2	14.21	8.4	CLAY	5	32	63	160.1
13251516	36047	25-30 6	1.64	10.53	0.9	1.1	15.3	15.46	8.3	CLAY	3	28	69	176.2
13251517	36048	30-35 7	2.64	8.56	1.3	1.3	20.1	17.79	8.2	CLAY	5	22	73	151.3
13251518	36049	35-40 8	2.90	11.71	1.6	1.5	30.9	25.11	7.6	CLAY	23	30	47	85.4
13251519	36050	40-45	1.60	9.99	0.4	0.4	15.2	24.46	8.7	CLAY	9	34	57	211.4
13251520	36051	45-50	1.57	9.86	0.4	0.3	14.9	26.45	8.8	SILT LOAM	21	52	27	127.8
13251521	36052	50-55	1.91	10.43	0.4	0.3	19.2	31.88	8.8	SILTY CLAY LOAM	19	52	29	110.7
13251522	36053	55-60	2.07	9.32	0.4	0.3	18.6	31.07	8.5	LOAM	23	50	27	122.4
13251523	36054	60-65	1.60	10.48	0.3	0.3	16.2	29.28	8.9	CLAY LOAM	21	48	31	124.7
13251524	36055	65-70	1.82	9.20	0.3	0.3	16.1	28.73	8.9	SILTY CLAY LOAM	13	50	37	147.8
13251525	36056	70-75	2.00	10.34	0.4	0.4	19.9	31.53	8.7	CLAY	3	30	67	136.3
13251526	36057	75-80	2.89	11.53	0.8	0.8	31.7	35.67	7.5	CLAY	33	22	45	66.8
13251527	36058	80-85	1.68	10.31	0.3	0.3	16.8	31.65	8.6	CLAY	7	40	53	136.0
13251528	36059	85-90	1.54	10.07	0.3	0.3	15.0	28.74	8.8	SILTY CLAY LOAM	17	48	35	157.9
13251529	36060	90-95	1.53	7.75	0.2	0.2	11.4	25.35	9.1	SILTY CLAY LOAM	15	50	35	182.8
13251530	36061	95-100	1.45	10.79	0.3	0.3	15.0	27.17	8.6	SILTY CLAY LOAM	15	46	39	167.5
13251541	36062	100-105	1.94	8.56	0.3	0.2	16.1	31.48	9.0	LOAM	29	44	27	144.0
13251542	36063	105-110	1.64	10.40	0.3	0.4	16.3	27.55	8.9	CLAY LOAM	29	40	31	143.2
13251543	36064	110-115	2.00	10.02	0.3	0.3	19.4	33.75	8.7	SILTY CLAY	9	44	47	115.3
13251544	36065	115-120	1.91	11.11	0.5	0.4	20.3	30.39	8.5	CLAY	11	20	69	124.5
13251545	36066	120-121.25	1.50	10.54	0.4	0.3	15.1	25.36	7.8	CLAY	37	10	53	109.9
13251546	36067	132-137	1.73	10.36	0.3	0.3	17.3	32.28	8.3	CLAY LOAM	27	38	35	103.0

→ Top of coal
121.25'



Coyote Creek
204 County Rd 15
Beulah, ND 58523

Date Sampled: 06/27/12
Date Received: 07/06/12
Date Reported: 09/06/12

Site: CC12018C

Top of coal 110' - 85 (depth removed by dragline) = 25'
+ 0-25' removed by truck shovel fleet.

$25' \div 5 = 5$ sample intervals above dragline removal depth

5 intervals $\times 20\% = 1$ interval of least desirable material

- no intervals (0-25') have an SAR > 20 or coarse texture of
Sandy loam, loamy sand, or sand. More than one interval
has SAR 12-20

36" projected respread

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Ref#	Lab#	Depth	EC	Cat/EC	Ca	Mg	Na	SAR	pH	Texture	Sand	Silt	Clay	Sat. Percent
14366661	35843	0-5 1	3.74	14.50	22.9	17.1	14.3	3.19	7.8	CLAY	19	26	55	81.9
14366662	35844	5-10 2	4.10	12.90	4.4	13.8	34.7	11.48	8.3	CLAY	5	26	69	105.0
14366663	35845	10-15 3	3.82	11.99	3.2	7.5	35.1	15.17	8.3	CLAY	5	26	69	127.3
14366664	35846	15-20 4	2.56	8.17	1.3	1.8	17.8	14.41	8.1	CLAY	3	14	83	143.9
14366665	35847	20-25 5	4.39	12.31	7.8	8.5	37.7	13.23	7.9	SILTY CLAY	15	42	43	107.6
14366666	35848	25-30	2.88	10.60	1.7	2.3	26.6	19.02	8.4	LOAM	31	48	21	59.2
14366667	35849	30-35	2.70	10.15	0.9	1.0	25.4	25.67	8.5	SILTY CLAY LOAM	19	46	35	91.7
14366668	35850	35-40	2.67	10.11	0.7	0.7	25.6	30.21	8.3	CLAY	11	40	49	106.7
14366669	35851	40-45	2.24	10.34	0.4	0.4	22.4	36.06	8.5	SILTY CLAY LOAM	13	48	39	107.1
14366670	35852	45-50	2.83	7.79	0.3	0.3	21.4	37.63	8.6	SILTY CLAY LOAM	17	50	33	94.1
14366671	35853	50-55	2.48	10.09	0.3	0.4	24.3	41.15	8.4	CLAY	15	34	51	93.5
14366672	35854	55-60	2.55	10.12	0.5	0.4	24.9	37.69	8.5	CLAY	11	36	53	101.2
14366673	35855	60-65	3.19	10.39	0.6	0.6	32.0	41.50	7.8	CLAY	13	18	69	87.6
14366674	35856	65-70	2.41	10.39	0.4	0.3	24.3	41.02	8.4	CLAY	15	30	55	116.4
14366675	35857	70-75	1.91	10.35	0.2	0.2	19.3	41.69	8.6	CLAY LOAM	21	42	37	121.3
14366676	35858	75-80	2.19	9.19	0.3	0.3	19.5	34.19	8.5	SILTY CLAY	9	42	49	108.2
14366677	35859	80-85	1.74	10.59	0.3	0.5	17.6	27.33	8.7	SILTY CLAY LOAM	19	46	35	99.0
14366678	35860	85-90	1.52	10.27	0.2	0.4	15.0	28.29	8.9	LOAM	41	32	27	104.7
14366679	35861	90-95	1.45	10.75	0.5	0.8	14.2	17.25	8.6	SILTY CLAY LOAM	19	46	35	149.0
14366680	35862	95-100	1.79	8.46	0.4	0.5	14.2	21.15	8.7	CLAY LOAM	25	40	35	134.0
14366681	35863	100-105	1.52	10.13	0.4	0.5	14.5	21.95	8.6	CLAY	15	36	49	97.8
14366682	35864	105-109	2.04	10.20	0.5	0.5	19.8	27.63	8.5	CLAY	7	20	73	92.0
14366683	35865	121-126	4.25	11.41	2.2	1.5	44.7	32.58	6.7	CLAY	14	11	75	122.0

→ Top of coal
~ 110'



Coyote Creek
204 County Rd 15
Beulah, ND 58523

Date Sampled: 06/28/12
Date Received: 07/06/12
Date Reported: 09/06/12

Site: CC12020C

Top of coal 107' - 85' (depth removed by dragline) = 22'

22' falls into 20-25' sample interval (0-25' removed by truck shovel fleet)

$25' \div 5 = 5$ sample intervals above dragline removal depth

5 intervals \times 20% = 1 interval of least desirable material

- no intervals (0-25') have an SAR > 20 or coarse texture of sandy loam, loamy sand, or sand. More than one interval has an SAR 12-20

36" projected respread

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Ref#	Lab#	Depth	EC	Cat/EC	Ca	Mg	Na	SAR	pH	Texture	Sand	Silt	Clay	Sat. Percent
13251671	36158	0-5 1	2.50	10.80	6.6	7.4	13.0	4.92	7.9	CLAY LOAM	43	22	35	59.6
13251672	36159	5-10 2	2.50	11.15	1.5	3.9	22.4	13.55	8.4	CLAY	15	32	53	79.3
13251673	36160	10-15 3	4.35	12.70	4.9	8.6	41.8	16.09	7.0	CLAY	17	36	47	85.3
13251674	36161	15-20 4	4.19	11.46	4.2	5.9	37.9	16.84	7.9	SILTY CLAY LOAM	19	42	39	111.2
13251675	36162	20-25 5	3.35	10.74	2.0	3.0	31.0	19.56	8.1	SILTY CLAY	13	42	45	130.9
13251676	36163	25-30	2.24	10.09	0.7	1.1	20.8	22.03	8.5	SILTY CLAY LOAM	19	50	31	133.8
13251677	36164	30-35	5.60	13.06	2.1	3.1	68.0	42.39	8.6	LOAM	41	34	25	112.5
13251678	36165	35-40	2.48	10.78	0.9	0.9	25.0	26.63	8.4	CLAY LOAM	23	44	33	127.7
13251679	36166	40-45	2.40	9.43	0.4	0.6	21.6	30.42	8.6	SILTY CLAY LOAM	17	52	31	132.5
13251680	36167	45-50	2.97	7.40	0.5	0.5	21.0	30.20	8.8	CLAY LOAM	21	44	35	127.3
13251681	36168	50-55	1.97	9.65	0.3	0.3	18.3	31.35	9.0	LOAM	41	34	25	130.2
13251682	36169	55-60	1.64	11.47	0.4	0.3	18.1	30.81	9.0	LOAM	41	36	23	115
13251683	36170	60-65	2.82	10.93	0.8	0.7	29.3	33.21	8.0	CLAY	15	26	59	136.5
13251684	36171	65-70	2.36	10.63	0.5	0.4	24.1	35.48	8.5	CLAY	13	34	53	126.1
13251685	36172	70-75	1.63	10.07	0.3	0.3	15.8	28.54	9.0	CLAY LOAM	23	40	37	164.5
13251686	36173	75-80	1.93	9.30	0.4	0.4	17.2	29.01	8.8	SILTY CLAY LOAM	13	48	39	168
13251687	36174	80-85	2.00	10.57	0.4	0.3	20.4	34.76	8.7	CLAY	7	36	57	144.2
13251688	36175	85-90	1.77	10.31	0.3	0.3	17.7	32.22	8.8	SILTY CLAY	15	42	43	176.3
13251689	36176	90-95	1.75	10.44	0.3	0.3	17.7	31.96	8.8	SILTY CLAY LOAM	19	44	37	150
13251690	36177	95-100	2.06	8.64	0.3	0.3	17.2	32.66	8.7	CLAY	15	40	45	140.8
13251692	36178	100-105	1.86	10.42	0.3	0.3	18.8	35.66	8.6	CLAY	5	28	67	139
13251693	36179	105-107	1.00	11.87	0.3	0.6	11.0	16.33	8.5	CLAY	5	22	73	131
13251694	36180	118-123	1.73	10.39	0.3	0.4	17.3	29.39	7.7		Not enough sample			127.8

→ Top of coal
107'