

June 30, 2014




Executive Secretary
North Dakota Public Service Commission
State Capitol Building
600 E. Boulevard, Dept. 408
Bismarck, ND 58505

Re: Heskett 88 MW Simple Cycle Combustion
Turbine & Natural Gas Pipeline -
Case Nos. PU-11-631 and PU-11-680

Montana-Dakota Utilities Co. (Montana-Dakota), a Division of MDU Resources Group Inc., herewith submits an original and two copies of its final Tree and Shrub Mitigation Plan in compliance with the Tree and Shrub Mitigation Specifications attached and part of the Commission's Orders in Case Nos. PU-11-631 and PU-11-680 issued on December 21, 2012 and August 21, 2013 respectively.

Attachment A identifies the plantings as trees or shrubs that were removed and the trees or shrubs that were planted. Also provided in Attachment B are the Morton County Soil Conservation District "Planting Plans" that show the location of the plantings and type and number of trees and shrubs planted and the trees that were hand planted for Montana-Dakota as shown on pages 8-10. The plantings were performed by the Morton County Soil Conservation District between June 3, 2014 and June 10, 2014.

Furthermore, in compliance with the Commission's Orders in Case Nos. PU-11-631 and PU-11-680, Montana-Dakota has contracted with the Morton County Soil Conservation District to perform the three annual "tree and shrub replacement inspections". The inspections will be conducted annually during the month of September, starting in year 2015. Montana-Dakota will report the results of those reviews.

Sincerely,

Tamie A. Aberle
Director of Regulatory Affairs

Attachments

94 **PU-11-631** Filed: 6/30/2014 Pages: 14
Compliance filing – final tree and shrub mitigation plan

81 **PU-11-680** Filed: 6/30/2014 Pages: 14
Compliance filing – final tree and shrub mitigation plan

Tree Mitigation Plan

Landowner

Kuhn	Removed	Replanted	1st yr survival	2nd yr survival	3rd yr survival	Tree	Shrub
Green Ash	37					x	
Bur Oak	23					x	
Juneberry	30						x
Chokecherry		46					x
Rocky Mountain Juniper		130				x	
Silver Buffaloberry	<u>16</u>	<u>46</u>					x
Total	106	222					

Plant Trees where removed

Seeman	Removed	Replanted	1st yr survival	2nd yr survival	3rd yr survival
Red Pine	1	2			

Plant @ Farmstead at 4647 24th Ave

Kary	Removed	Replanted	1st yr survival	2nd yr survival	3rd yr survival	Tree	Shrub
Bur Oak	15					x	
Green Ash	42					x	
Juneberry	4						x
Common Buckthorn	2						x
Rocky Mountain Juniper		44				x	
Golden Currant		85					x
Silver Buffaloberry	<u> </u>	<u>95</u>					x
Total	63	224					

Plant Trees where removed

Schock	Removed	Replanted	1st yr survival	2nd yr survival	3rd yr survival	Tree	Shrub
Green Ash	10	22				x	
Bur Oak	3	72				x	
Juneberry	8						x
Silver Buffaloberry	<u>23</u>	<u> </u>					x
Total	44	94					

Plant Trees at location identified by owner

Marmot	Removed	Replanted	1st yr survival	2nd yr survival	3rd yr survival
Green Ash	1	2			

Plant Trees where removed

Plummer	Removed	Replanted	1st yr survival	2nd yr survival	3rd yr survival	Tree	Shrub
Bur Oak	9	18				x	
Silver Buffaloberry	21	103					x
Redosier Dogwood	<u>9</u>	<u>96</u>					x
Total	39	217					

Plant Bur Oak where trees removed. Plant Trees at location identified by owner

Vogel	Removed	Replanted	1st yr survival	2nd yr survival	3rd yr survival	Tree	Shrub
Green Ash	2	65				x	
Juneberry	75						x
Silver Buffaloberry	244						x
Box Elder	8					x	
Round Leaf Hawthorn	2						x
Midwest Man. Crabapple		78				x	
Golden Current		163					x
BH Spruce		30				x	
CO Blue Spruce		21				x	
Cranberry		182					x
Schubert Chokecherry	<u></u>	<u>124</u>					x
Total	331	663					

Plant Trees at location identified by owner

Norton	Removed	Replanted	1st yr survival	2nd yr survival	3rd yr survival	Tree	Shrub
Common Buckthorn	25						x
Round Leaf Hawthorn	67						x
Silver Buffaloberry		40					x
Redosier Dogwood		110					x
Nannyberry	<u></u>	<u>34</u>					x
Total	92	184					

Plant Trees at location identified by owner

Heskett	Removed	Replanted	1st yr survival	2nd yr survival	3rd yr survival	Tree	Shrub
Chinese Elm	18					x	
Russian Olive	6					x	
Silver Buffaloberry	12	152					x
Common Buckthorn	12						x
Redosier Dogwood		102					x
CO Blue Spruce		41				x	
Chokecherry		150					x
Round Leaf Hawthorn		76					x
Rocky Mountain Juniper	<u>18</u>	<u>162</u>				x	
Total	66	683					

Trees from Landowners Irwin, Trauger and Mitzel added to trees removed from plant site

Irwin	Removed	Replanted	1st yr survival	2nd yr survival	3rd yr survival	Tree	Shrub
Green Ash	33					x	
Chinese Elm	8					x	
Russian Olive	<u>2</u>					x	
Total	43						

Landowner does not want trees replanted. Replacement trees planted at Heskett Station

Trauger	Removed	Replanted	1st yr survival	2nd yr survival	3rd yr survival	Tree	Shrub
Green Ash	39					x	
Silver Buffaloberry	23						x
Common Buckthorn	11						x
Eastern Cottonwood	34					x	
Box Elder	19					x	
American Elm	<u>1</u>					x	
Total	127						

Landowner does not want trees replanted. Replacement trees planted at Heskett Station

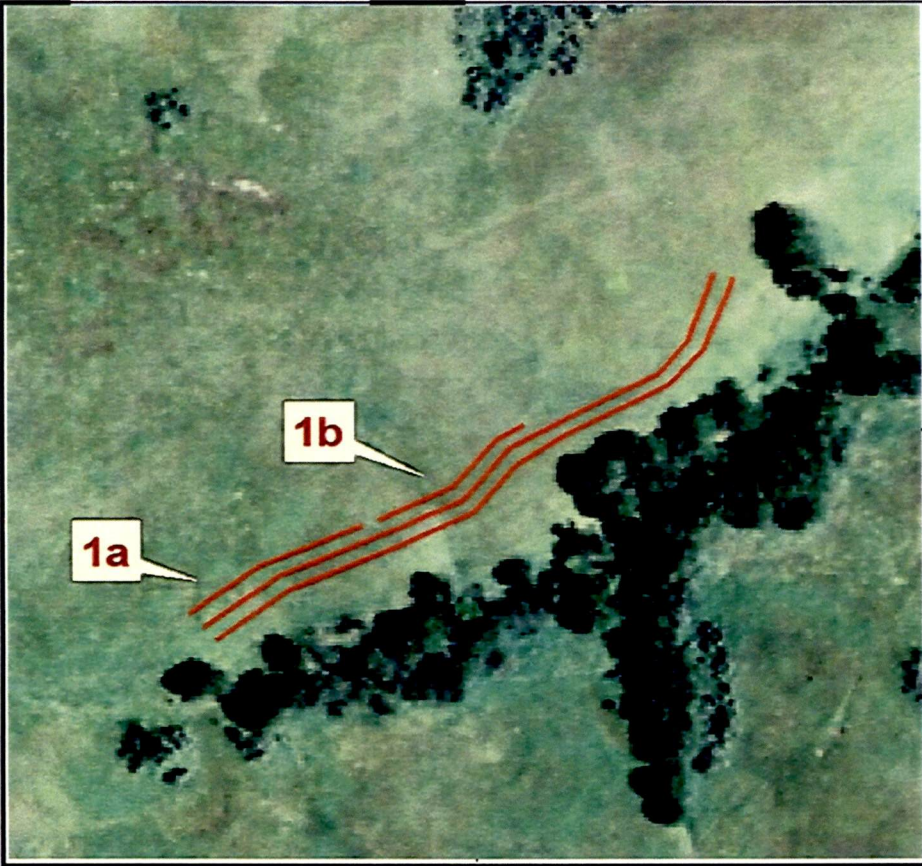
Mitzel	Removed	Replanted	1st yr survival	2nd yr survival	3rd yr survival	Tree	Shrub
Silver Buffaloberry	12						x
Common Buckthorn	<u>20</u>						x
Total	32						

Landowner does not want trees replanted. Replacement trees planted at Heskett Station

Total Trees Removed	329
Total Trees Replanted	687
Total Shrubs Removed	616
Total Shrubs Replanted	1604

**USDA-NRCS
TREE AND SHRUB PLANTING PLAN -- NON-COST SHARED**

Name Kuhn Address 2457 Business LP I-94 Phone: _____



Location: SW1-138-82
 Planned by: BA
 Date: 4/18/2014
 Planted by: _____
 Date: _____
 Farmstead Field Wildlife Living Snow Fence
 Summerfallowed: Yes No
 New Planting X Replants _____

Space between row: 12'
 Soil type: E1355D
 Suitability Group: 6D
 Distance from road: 200+'
 Distance from bldg.: 200+'
 Property Boundary
 staked Yes No
 Utility Easements
 staked Yes No
 Utilities flagged Yes No
 Tree rows flagged
 & identified Yes No

Approved: Yes No
 Date: _____
 By: _____

Condition of site at planting time: _____

Field No.	Planning Length	Planted Length	Planted Width (Inc. 10' on ea. Side of Planting)	Acres	Row #	Row #1 is on North or West side of planting Species of Tree or Shrub	Spacing in Row	Number Planted (Estimated)	Number Planted (Actual)	Spraying and/or cultivating plan and record. (State how weed control to be accomplished: -- type of spray & rate and/or type of cultivation equipment-- indicating when action to take place.)
	182	182	44	0.5	1a	Silverberry	4	46	46	No Till
	182	190			1b	Chokecherry	4	46	46	
	600	624			2	Rocky Mt Juniper	10	60	64	Fabric on all rows
	600	624			3	Rocky Mt Juniper	10	60	66	
Totals	1564	1620		0.5				212	222	

**USDA-NRCS
TREE AND SHRUB PLANTING PLAN -- NON-COST SHARED**

Name Kary Address _____ Phone: _____



Location: NW1-138-82
 Planned by: BA
 Date: 3/6/2014
 Planted by: _____
 Date: _____
 Farmstead Field Wildlife Living Snow Fence
 Summerfallowed: Yes No
 New Planting Replants
 Space between row: 12'
 Soil type: 31C
 Suitability Group: 4
 Distance from road: 50'
 Distance from bldg.: 200+'
 Property Boundary
 staked Yes No
 Utility Easements
 staked Yes No
 Utilities flagged Yes No
 Tree rows flagged & identified Yes No
 Approved: Yes No
 Date: _____
 By: _____

Condition of site at planting time: _____

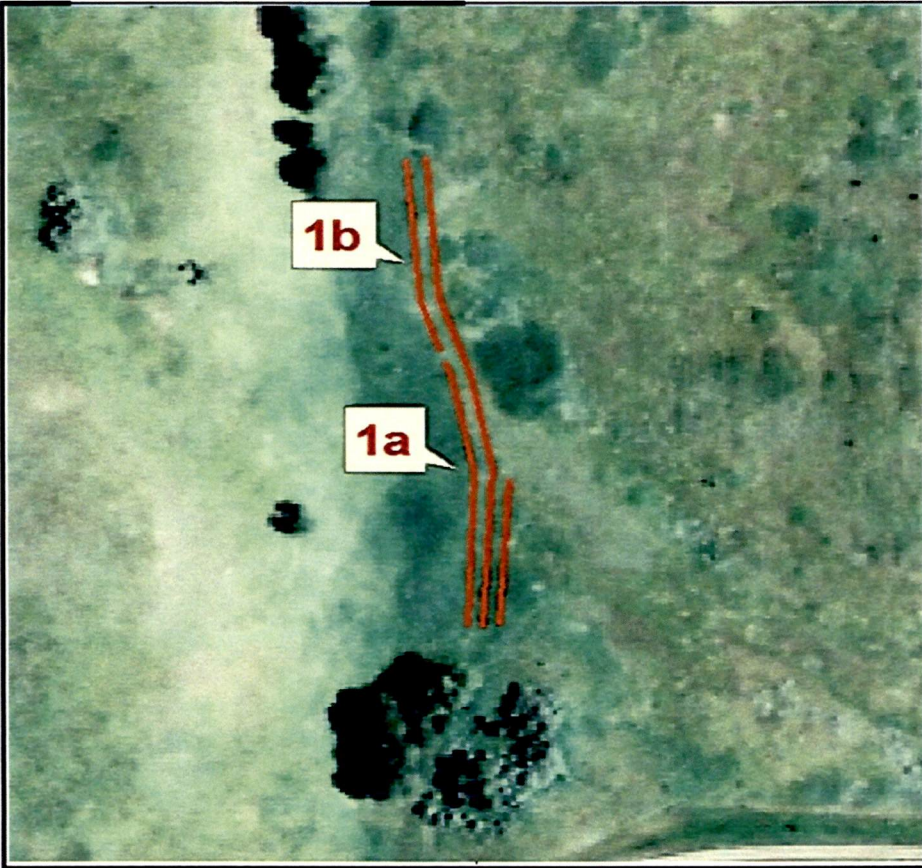
Field No.	Planning Length	Planted Length	Planted Width (Inc. 10' on ea. Side of Planting)	Acres	Row #	Row #1 is on North or West side of planting Species of Tree or Shrub	Spacing in Row	Number Planted (Estimated)	Number Planted (Actual)	Spraying and/or cultivating plan and record. (State how weed control to be accomplished: -- type of spray & rate and/or type of cultivation equipment-- indicating when action to take place.)
	333	342	44	0.3	1	Golden Currant	4	83	85	Fabric on All Rows
	333	342			2	Rocky Mt. Juniper	8	42	44	
	333	342			3	Buffaloberry	4	83	95	
Totals	999	1026		0.3				208	224	

**USDA-NRCS
TREE AND SHRUB PLANTING PLAN -- NON-COST SHARED**

Name Schock

Address _____

Phone: _____



Location: SW36-139-82
 Planned by: BA
 Date: 2/7/2014
 Planted by: _____
 Date: _____
 Farmstead Field Wildlife Living Snow Fence
 Summerfallowed: Yes No
 New Planting X Replants _____

Space between row: 12'
 Soil type: 15F
 Suitability Group: 10*
 Distance from road: 200'+
 Distance from bldg.: 200'+
 Property Boundary
 staked Yes No
 Utility Easements
 staked Yes No
 Utilities flagged Yes No
 Tree rows flagged
 & identified Yes No

Approved: Yes No
 Date: _____
 By: _____

Condition of site at planting time: _____

Field No.	Planning Length	Planted Length	Planted Width (Inc. 10' on ea. Side of Planting)	Acres	Row #	Row #1 is on North or West side of planting Species of Tree or Shrub	Spacing in Row	Number Planted (Estimated)	Number Planted (Actual)	Spraying and/or cultivating plan and record. (State how weed control to be accomplished: -- type of spray & rate and/or type of cultivation equipment-- indicating when action to take place.)
	264	230	44	0.4	1a	Green Ash	12	22	22	Fabric on all rows
	196	210			1b	Bur Oak	12	16	18	
	460	462			2	Bur Oak	12	38	41	* Soil complex is CTSG 10, but
	144	142			3	Bur Oak	12	12	13	on-site indicates planned species
										will be successful as bur oak and
										green ash are established nearby
Totals	1064	1044		0.4				88	94	

**USDA-NRCS
TREE AND SHRUB PLANTING PLAN -- NON-COST SHARED**

Name Plummer

Address _____

Phone: 701-222-7772



Location: NE24-139-82
 Planned by: BA
 Date: 2/6/2014
 Planted by: _____
 Date: _____
 Farmstead Field Wildlife Living Snow Fence
 Summerfallowed: Yes No
 New Planting X Replants _____

Space between row: N/A
 Soil type: 27B, 27
 Suitability Group: 4, 4
 Distance from road: 200+'
 Distance from bldg.: 200+'
 Property Boundary
 staked Yes No
 Utility Easements
 staked Yes No
 Utilities flagged Yes No
 Tree rows flagged
 & identified Yes No
 Approved: Yes No
 Date: _____
 By: _____

Condition of site at planting time: _____

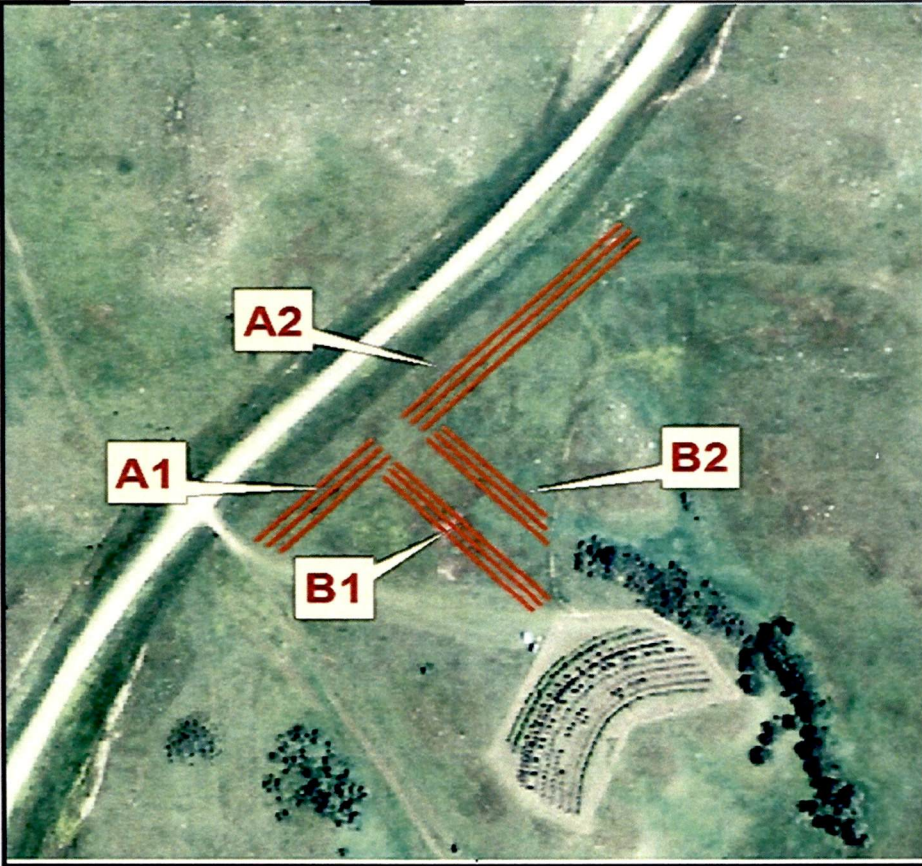
Field No.	Planning Length	Planted Length	Planted Width (Inc. 10' on ea. Side of Planting)	Acres	Row #	Row #1 is on North or West side of planting Species of Tree or Shrub	Spacing in Row	Number Planted (Estimated)	Number Planted (Actual)	Spraying and/or cultivating plan and record. (State how weed control to be accomplished: -- type of spray & rate and/or type of cultivation equipment-- indicating when action to take place.)
	400	400	20	0.5	1a	Redosier Dogwood	4	100	96	Fabric on All Rows
	600	600			1b	Buffaloberry	6	100	103	
Totals	1000	1000		0.5				200	199	

**USDA-NRCS
TREE AND SHRUB PLANTING PLAN -- NON-COST SHARED**

Name Vogel

Address _____

Phone: _____



Location: S1/2 22-139-82
 Planned by: BA
 Date: 2/20/2014
 Planted by: _____
 Date: _____
 Farmstead Field Wildlife Living Snow Fence
 Summerfallowed: Yes No
 New Planting Replants

Space between row: 16'
 Soil type: 31C, 51F
 Suitability Group: 4, 10*
 Distance from road: 100'
 Distance from bldg.: 200'+
 Property Boundary
 staked Yes No
 Utility Easements
 staked Yes No
 Utilities flagged Yes No
 Tree rows flagged
 & identified Yes No
 Approved: Yes No
 Date: _____
 By: _____

Condition of site at planting time: _____

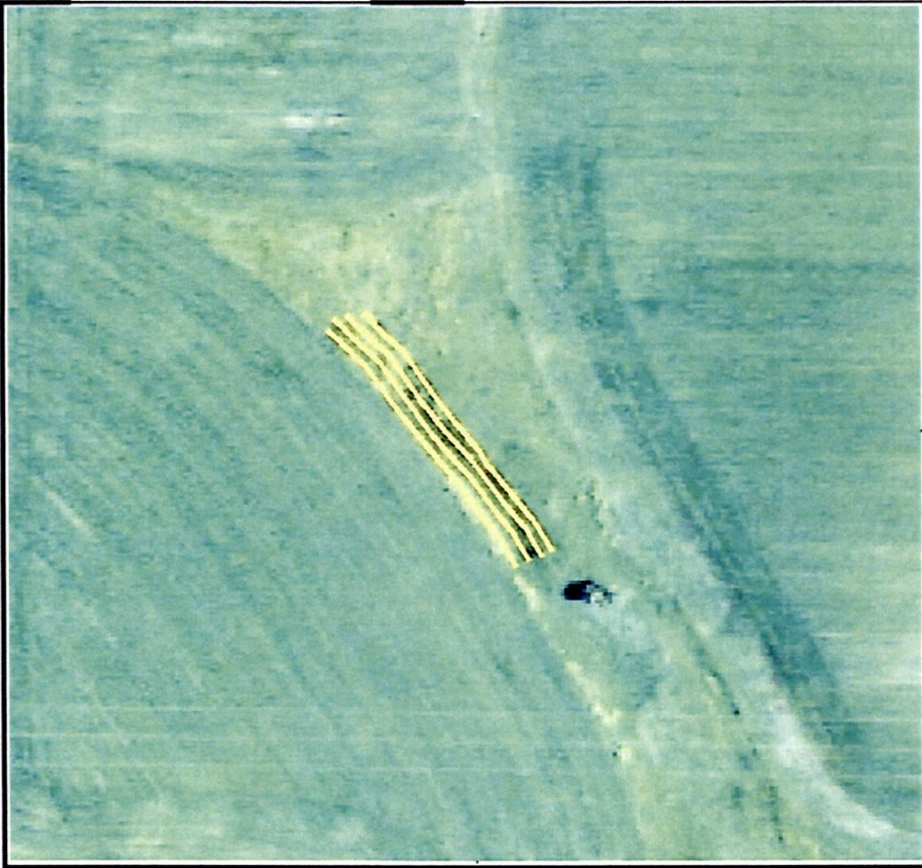
Field No.	Planning Length	Planted Length	Planted Width (Inc. 10' on ea. Side of Planting)	Acres	Row #	Row #1 is on North or West side of planting Species of Tree or Shrub	Spacing in Row	Number Planted (Estimated)	Number Planted (Actual)	Spraying and/or cultivating plan and record. (State how weed control to be accomplished: -- type of spray & rate and/or type of cultivation equipment-- indicating when action to take place.)
A1	200	203	52	0.2	1	Cranberry	4	50	55	Fabric on all rows
	200	203			2	'Schubert' Chokecherry	6	33	37	
	200	203			3	Green Ash	10	20	21	
A2		88		0.6	4	Golden Currant	4		23	* Soil complex is CTSG 10, but on-site indicates planned species will be successful as representatives of each species are growing in the existing planting to the South.
	480	459	52		1	Cranberry	4	120	127	
	480	467			2	'Schubert' Chokecherry	6	80	87	
B1		444		0.4	3	Green Ash	10	48	44	Site will be irrigated
	350	352	52		1	'Midwest' Man. Crabapple	8	44	47	
	350	352			2	Black Hills Spruce	12	29	30	
B2				0.3	3	Golden Currant	4	88	84	10 additional plants of species listed within the plan will be planted in an appropriate location on-site to meet mitigation requirements
	350	236	52		1	Golden Currant	4	88	56	
	275	236			2	Colorado Blue Spruce	12	23	21	
	250	236			3	'Midwest' Man. Crabapple	8	31	31	Extra fabric needed, Esther will mark areas
Totals	3965	3831		1.5				654	663	

**USDA-NRCS
TREE AND SHRUB PLANTING PLAN -- NON-COST SHARED**

Name Norton

Address _____

Phone: _____

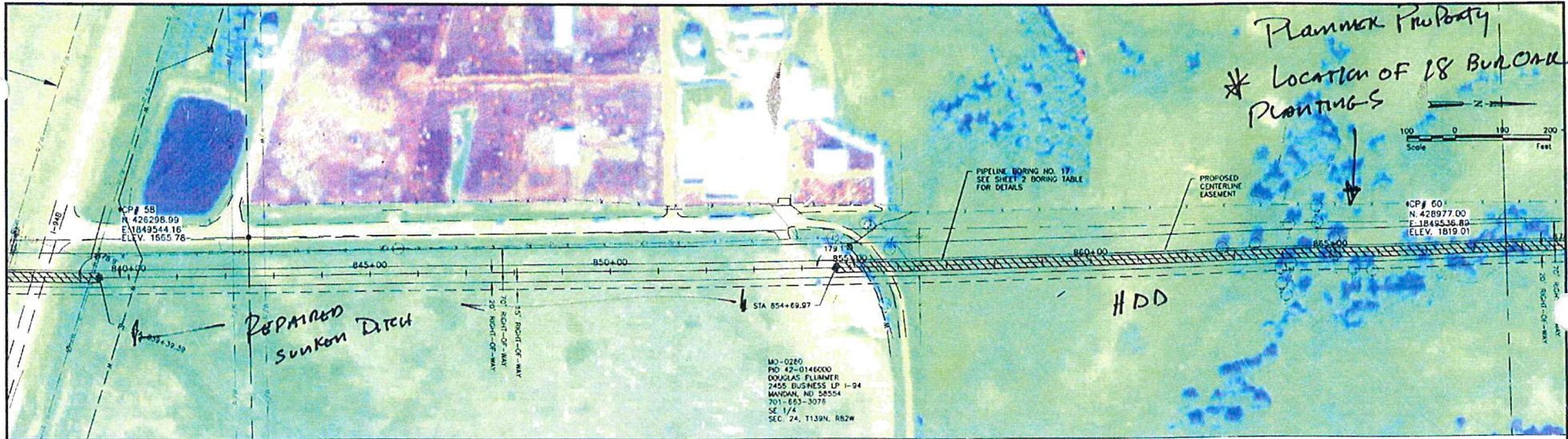


Location: 7-139-81
 Planned by: BA
 Date: 1/24/2014
 Planted by: _____
 Date: _____
 Farmstead Field Wildlife Living Snow Fence
 Summerfallowed: Yes No
 New Planting Replants
 Space between row: 10'
 Soil type: 27B
 Suitability Group: 4
 Distance from road: 200+ feet
 Distance from bldg.: 200+ feet
 Property Boundary
 staked Yes No
 Utility Easements
 staked Yes No
 Utilities flagged Yes No
 Tree rows flagged & identified Yes No
 Approved: Yes No
 Date: _____
 By: _____

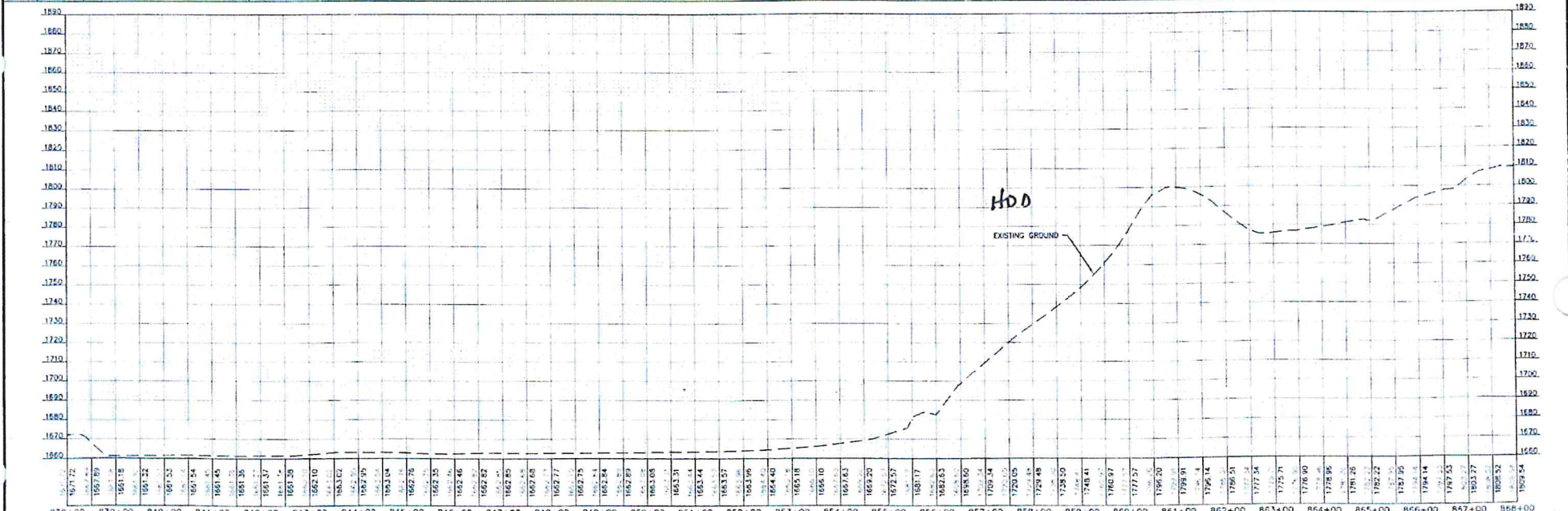
Condition of site at planting time: _____

Field No.	Planning Length	Planted Length	Planted Width (Inc. 10' on ea. Side of Planting)	Acres	Row #	Row #1 is on North or West side of planting Species of Tree or Shrub	Spacing in Row	Number Planted (Estimated)	Number Planted (Actual)	Spraying and/or cultivating plan and record. (State how weed control to be accomplished: -- type of spray & rate and/or type of cultivation equipment-- indicating when action to take place.)
	250	224	50	0.3	1	Redosier Dogwood	4	63	46	Fabric on All Rows
	250	176			2	Nannyberry Viburnum	6	42	34	
	250	227			3	Buffaloberry	6	42	40	
	250	230			4	Redosier Dogwood	4	63	64	
Totals	1000	857		0.3				210	184	

7/21/13 1:58 PM (Print) Company: 6125-0113W_Airbury to Heskett Station Pipeline Route Plans & Profiles - PLAN & PROFILES - SHEET



MD-0280
 NO. 42-0146000
 DOUGLAS FLANNER
 2455 BUSINESS LP 1-94
 BANGOR, ND 58554
 701-653-3076
 SE 1/4
 SEC. 24, T139N, R62W



838+00	1671.72	1671.72
839+00	1667.89	1667.89
840+00	1661.18	1661.18
841+00	1661.22	1661.22
842+00	1661.25	1661.25
843+00	1661.54	1661.54
844+00	1661.45	1661.45
845+00	1661.36	1661.36
846+00	1661.37	1661.37
847+00	1661.58	1661.58
848+00	1662.10	1662.10
849+00	1663.02	1663.02
850+00	1662.99	1662.99
851+00	1663.04	1663.04
852+00	1662.76	1662.76
853+00	1662.35	1662.35
854+00	1662.46	1662.46
855+00	1662.82	1662.82
856+00	1662.85	1662.85
857+00	1662.68	1662.68
858+00	1662.77	1662.77
859+00	1662.75	1662.75
860+00	1662.84	1662.84
861+00	1662.89	1662.89
862+00	1662.66	1662.66
863+00	1663.31	1663.31
864+00	1663.44	1663.44
865+00	1663.57	1663.57
866+00	1663.96	1663.96
867+00	1664.40	1664.40
868+00	1665.18	1665.18
869+00	1666.10	1666.10
870+00	1667.63	1667.63
871+00	1669.20	1669.20
872+00	1672.57	1672.57
873+00	1681.77	1681.77
874+00	1682.63	1682.63
875+00	1683.60	1683.60
876+00	1709.34	1709.34
877+00	1720.05	1720.05
878+00	1722.44	1722.44
879+00	1729.48	1729.48
880+00	1728.50	1728.50
881+00	1746.41	1746.41
882+00	1760.97	1760.97
883+00	1777.57	1777.57
884+00	1796.20	1796.20
885+00	1799.31	1799.31
886+00	1795.14	1795.14
887+00	1796.51	1796.51
888+00	1777.34	1777.34
889+00	1775.71	1775.71
890+00	1776.80	1776.80
891+00	1778.95	1778.95
892+00	1781.26	1781.26
893+00	1782.22	1782.22
894+00	1787.25	1787.25
895+00	1794.14	1794.14
896+00	1787.53	1787.53
897+00	1803.77	1803.77
898+00	1808.52	1808.52
899+00	1809.81	1809.81

MONTANA-DAKOTA UTILITIES CO.
 POWER & GAS
 In the Community to Serve

Houston Engineering Inc.
 ENGINEERS & ARCHITECTS
 1401 23rd Street, Suite 100
 Houston, TX 77002

Drawn by
KJC TKP
 Checked by
SML
 Date
9-17-13
 Scale
AS SHOWN

MDU R.M. HESKETT STATION PIPELINE ALIGNMENT
MONTANA-DAKOTA UTILITIES CO.
MORTON COUNTY, NORTH DAKOTA

PLAN & PROFILE
STA 838+00 TO STA 868+00
PROJECT NO. 6125-011

