

**WEEKLY REPORT
OF
CONSTRUCTION PROGRESS**

PROJECT:

Merricourt - Ellendale, 230kV, TL151
Ashley - Ellendale, 46kV, TL041 UB
Wishek - Ellendale, 230kV, TL089 - Merricourt Taps

DATE: March 10, 2012

WO: J172396
J186381
JXXXXXX

WEEK OF CONSTRUCTION: March 5, 2012 to March 19, 2012

#25

OPERATION		* PERCENT COMPLETION																		
		10	20	30	40	50	60	70	80	90	100									
NEW CONSTRUCTION	4 No. STRUCTURE LOCATION STAKED																			100%
	3 No. MATERIAL HAULED IN FIELD																			100%
	2 No. STRUCTURE ASSEMBLING																			95%
	2 No. STRUCTURE ERECTING																			97%
	1 No. GUY & ANCHOR INSTALLATION																		++++	20%
	230kV 954mm ACSR 45% Conductor 36" EHS shield wire WIRE STRINGING 20.54-485																			48%
RIGHT OF WAY CLEARING																				90%
RETIREMENT	POLE LINE REMOVAL																			100%
	CONDUCTOR REMOVAL																			100%
	MATERIAL RETURNS (New & Used)																			100%

* Percent completed to period of report -----
Percent completed during period of report *****

REMARKS:

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Merricourt, Ashley, Wishek to Ellendale progress
report, week ending 3-10-2012

Montana-Dakota Utilities Co., a Division of MDU Resources
Group, Inc.

CONTRACTOR:
BRINK CONSTRUCTORS, INC

MONTANA-DAKOTA UTILITIES CO.

BY: SS

BY: Kenneth W. Fisher

March 5th 2012 to March 10th 2012

Merrisport Wind Farm to Ellendale 230KV Project

2 No: Structure Assembling

243 total / Structures $231 + 1 = 232$ 3-Pole 55

$243 / 232 = .9547$ 95%

2 No: Structures Erecting

243 total $232 + 4 = 236$ 3-Poles 59, 47, 43 H ST. 44

$243 / 236 = .9712 = 97\%$

1 No: Guy and anchors Installation

323 total $219 + 39 = 258$ 95(41); 87(20); 83(15);

$323 / 258 = .7988$ 80%

1 W wire string 230KV 954mm, ACSR $\frac{3}{8}$ " EHS shield wire

156,819 St total $66,324 + 9,593 = 75,917$ St.

$156,819 / 75,917 = .4841$ 48%

OPGW CC-57/465

156,740 St total $53,342 + 15,887 = 69,229$

$156,740 / 69,229 = .4417$ 44%

INSPECTOR'S WEEKLY REPORT

Line: Merricourt Wind Farm to Ellendale, 230KV Project

Period: March 5th 2012 to March 9th 2012 Contractor: Brink

Inspector: Kenneth W. Fisher General Foreman: Seth Scott

Weather Conditions: Temp 12° to 69° Workmen Total: 18
Light overcast to clear wind 5 to 30 mph Gust up to 40 mph on Thursday, Friday

Progress:

1. Roads Built _____
2. ~~Cross~~ Build Installed 95(4); 29(20); 83(15) ^{1" x 10" x 24"} plate anchors (39)
3. Material Hauled _____
4. Structures Framed on 3-Pole angle str. 55, 59, 47, 43 ^{* Just Ground Framed only} 2-Pole "H" str. 45, 44 (1) ^{gr. wire only} (5)
5. Digging 3-Poles angle structures 50, 47, 43 2-Poles "H" structures 45, 44 (5)
6. Structures Set same as no. 5 (5)
- ? 7. Sock Line Pulled 140 to 125-124 125-124 to 115-114
- ? 8. Wire Strung 140 to 125-124
954 mm ACSR # 3/8" EHS. shield wire
- ? 9. Wire Sagged & Clipped 140 to 126
954 mm ACSR # 3/8" EHS. shield wire
10. ~~Cross~~ OPGW Installed From 158 to 133 ^{DE Fiber Pole} DE Fiber pole

Comments:

For wire operation.
Progress was slow due to wind and warmer weather has caused
Some Track in fields and hay field also ^{The} in afternoon. Contractor
has been good about the tracking. He's kept his heavy equipment
out of soft ground areas. Anchor installation was good this
week. The contractor has aerial swarming crew just put ground
wire on poles. Then dig and set 3-Poles and "H" structures from structures
listed above. They will go back and aerial spool after all poles are set.
3-Poles; 29 and 1; "H" structures 42, 32, 31, 2, 7, 6, 5, 4, 3 and 2.
There will be 4 new Gates to be installed 3-a more land 1-Broken land

TRANSMISSION LINE CONSTRUCTION

RECORD OF CONTRACTORS TIME & EQUIPMENT

PROJECT Marricourt Wind Farm Ellendale REPORTED BY Kenneth W. Fisher
 DATE March 2012

DATE Monday 5, 2012
Tuesday 6, 2012
Wednesday 7, 2012

Brink Contractor

MEN	NO.	TRAILS & LANDINGS	POLE & MATERIAL HAULING	HOLE DIGGING	STRUCTURE FRAMING (Ground)	STRUCTURE SETTING	STRUCTURE FRAMING (Aerial)	ANCHOR INSTALLATION	CONDUCTOR HAUL, STRING, SAG, CLIP	CLEAN-UP WORK	LOST TIME DUE TO ADVERSE WEATHER	TOTAL HOURS
FOREMAN	<u>General</u>	1							1			33
FOREMAN		1					1					33
FOREMAN		1							1			33
LINEMEN		1							1			33
LINEMEN		1							1			33
LINEMEN	<u>Appr.</u>	3					2		1			99
LINEMEN	<u>Appr.</u>	4							4			132
EQUIP. OPERATORS		1	<u>3-6-12</u>	<u>3-7-12</u>				1				22
EQUIP. OPERATORS		3					1		2			99
EQUIP. OPERATORS												
GROUNDMEN		1						1				33
GROUNDMEN												
GROUNDMEN		2							2			66
GROUNDMEN												
TOTAL MEN		<u>17-18</u>					<u>4</u>	<u>2</u>	<u>12</u>			<u>550</u>

EQUIPMENT ON JOB (List on Monday and note only changes during week.)

<u>2-2 Ton Pickups</u>	<u>air Compressor w/ tanks</u>	<u>High reach w/ basket</u>
<u>2-1 Ton Pickups</u>	<u>3 Tractor w/ flat bed trailers w/ turn steel wire stands</u>	<u>on each trailer</u>
<u>3-3/4 Ton Pickups</u>	<u>1- Truck w/ tension</u>	<u>1- John Deere backhoe 4110 J.</u>
<u>600 Tex. digger</u>	<u>1- 3 drum pulley w/ 1200 ft</u>	<u>1- Pole tower w/ trailer</u>
<u>500 Tex. digger</u>	<u>1- 1 drum pulley w/ 400 ft</u>	<u>1- Survey tablet crane</u>
<u>Series 1800 40 ton crane</u>	<u>1- Truck with 2- steel stand</u>	<u>Dynamometer</u>
<u>Series 1300 30 ton crane</u>	<u>Truck with 2- steel wire</u>	
<u>Series 800 National crane</u>	<u>Truck w/ tension stand</u>	
<u>2- National Crane w/ trailer</u>	<u>1- 10 yd dump truck</u>	
<u>air Compressor w/ tanks</u>		

WEATHER CONDITIONS (Indicate above approx. time lost due to adverse weather.)

<u>light cloudy sunny wind 5 to 15 mph</u>	<u>Temp 12° to 33°</u>	<u>2-5-12</u>
<u>light overcast with sun wind 5 to 15 mph</u>	<u>Temp 24° to 36°</u>	<u>3-6-12</u>
<u>Overcast cool wind 5 to 20 mph</u>	<u>Temp 26° to 28°</u>	<u>3-7-12</u>

DAILY RECORD OF CONTRACTORS WORK

3-5-12 & 3-6-12 & 3-7-12

STAND NO.	DIGGING-FT.		POLES SET	STRUCTURE <i>erial</i> FRAMED	ANCHORS INSTALLED	AERIAL MARKER	FENCE GATES
	EARTH	ROCK					
55	3-5-12 E	3-6-12		T-230 JP	3 poles <i>erial</i> D.F.		
50	22'-0"		2-90 CL-1	T-230 -E	3-6-12		
	11'-0"		1-90 PL-1	T-230 -E	3-7-12		
3-27-12 47	11'-0"	5 cu yds	1-90 CL-1	ground Framed Poles	T-230 E		
133	OPEW <i>erial</i> Fiber optic splice case mounting on Poles						
158	Installed OPEW Ground Clamps on Down lead Clamps and						
187	Splice Box Enclosure with External Coil Bracket						
216	Dead End steel Tower in Ellendale substation S.E. Leg.						
95	100% on anchor as of		3-6-12	T-230 JP	4 New anchors were installed		
R7				T-230 JP	20 to be installed		
					2 anchors 3-6-12		
					4 anchors 3-7-12		
	5 cu yds Total		for the week		crushed Rock		

PROGRESS OF CONDUCTOR STRINGING, SAGGING, CLIPPING

Pulled hard line in from Structure 158 to 133 for OPEW wire. Then pulled in OPEW wire and sag. OPEW from 158 to 133 and with 3 pole *erial* D.F. on N.W. pole. Sag all wire from 158 to 140-139 & 133. Set puller up between 125-124; wire trailer and tensioner between 140-139.

Pulled hard line ^{also 3/8 shield wire} from between 125-124 to wire set up between 140-139. 3-5-12
Pulled in 3-conductor Phases from 140-139 to 125-124 Today 3-7-12

Clipped in 3-conductor Phases, shield wire, OPEW wire also installed Vibration dampers were need on all wires. From 125-124 to 126. *erial*
all wire phases (3-conductor phases) (1-shield wire phase) (1-OPEW phases)

GENERAL REMARKS (Include R/W, Material, Inspection Decisions)

wire crew hung dallas on structure 124 to 133 for all wires.

5-men *erial* ground frame installed down Guy wires at 230 JP Structure 55 3-5-12

4-men worked on digging and setting 3-Pole structure at 50. 3-6-12 & 3-7-12.

2-men installing anchors listed above for 3-Pole structures.

DAILY RECORD OF CONTRACTORS WORK

3-8-2012 & 3-9-12 & 3-10-12

STAND NO.	DIGGING-FT.		POLES SET	STRUCTURE <small>Ground</small> FRAMED	ANCHORS INSTALLED	AERIAL MARKER	FENCE GATES
	EARTH	ROCK					
87				3-8-12	12	anchors	Installed
				3-9-12	2	anchors	Installed
47	22-0'	15 cu yds	2-90ct-1	3-8-12	water hole	T-230-F	
(45)	21-0'	10 cu yds	2-85ct-2	3-8-12	water hole	T-230-A	
44	13.5' x 12.0'	15 cu yds	2-115ct-2	^{dig} 3-9-12	^{sat} 3-12	T-230-A	
43	*12.0' x 12.5' x 12.0'	30 Cuyds	3-120 ct/H	^{dig} 3-9-12	^{sat} 3-10-12	T-230-JP	
83	T-230-JP			3-9-12	4-Plate anchors	1" x 10' x 24"	
				3-10-12	11-Plate anchors	1" x 10' x 24"	
		70 cu yds	of crushed Rock	dig	week		

3-8-12

PROGRESS OF CONDUCTOR STRINGING, SAGGING, CLIPPING Crews sagged shield wire and 3 conductor phases from 140 to 125-124. Start clipping in shield and conductor phases from 140 towards 126. Installed vibration dampers on all wire where call for 3-8-12 & 3-9-12

Pulled hard line in from between 125-124 to 115-114 also 3/4 shield wire.

GENERAL REMARKS (Include R/W, Material, Inspection Decisions)

2 men installing screw anchor at 3-Pole structure listed above.

4 men working on ground framing 3-Pole structure, digging pole hole and setting poles for 3-Pole structure listed above.

12 men working on wire operation that is listed above.