

**WEEKLY REPORT  
OF  
CONSTRUCTION PROGRESS**

**PROJECT:**

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

**DATE:** March 17, 2012

**WO:** J172396  
J186381  
JXXXXXX

**WEEK OF CONSTRUCTION:** March 12, 2012 to March 17, 2012

# 26

OPERATION		* PERCENT COMPLETION												
		10	20	30	40	50	60	70	80	90	100			
NEW CONSTRUCTION	STRUCTURE LOCATION STAKED												100%	
	MATERIAL HAULED IN FIELD												100%	
	STRUCTURE ASSEMBLING												95%	
	STRUCTURE ERECTING												97%	
	GUY & ANCHOR INSTALLATION										+++++		91%	
	230KV 954mm <sup>2</sup> ACSR 45/7 Conductor 3/8 FMS shield wire WIRE STRINGING 0.66w wire 20' x 4" - 3/8"							+++++	58%					
								+++++	58%					
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:**

132 PU-10-164 Filed: 3/22/2012 Pages: 7  
Merricourt, Ashley, Wishek to Ellendale progress report, week ending 3-17-2012  
  
Montana-Dakota Utilities Co., a Division of MDU Resources Group, Inc.

**CONTRACTOR:**  
BRINK CONSTRUCTORS, INC

**MONTANA-DAKOTA UTILITIES CO.**

**BY:** S.S.

**BY:** Kenneth W. Fisher

March 12<sup>th</sup>, 2012 to March 17<sup>th</sup>, 2012

Merrisourt Wind Farm to Ellendale 230KV Project

2 NO: Structures Assembly 3-Pole str. 50

243 Total \*229 + 1 = 230 \*Correction as of 3-17-12

243  $\sqrt{230} = .9465 = 95\%$  correct %

(229) is corrected number as of 3-17-12

2 NO: Structures Erecting ("H" str. 42, 32, 31) (3-Poles 29) already becount in sub total

243 Total 235 correction as of 3-17-12

243  $\sqrt{235} = .9671 = 97\%$  correct %

(235) is corrected number as of 3-17-12

1 NO: Guy and anchors installation

323 + 8 = 333 <sup>total</sup> 258 + 45 = 303 80 (1) p/bts; 59 (8); 55 (1) s.c. 5 p/bts

323  $\sqrt{303} = .9099 = 91\%$  50 (4); 47 (4); 4 (3) (12) s.c.

333 Total that will be installed on this Project

1 W: Wire string 230 KV 954 mcm, acsr, 3/8 EHS, shield wire

156,819 ft Total 75,912 ft + 6,137 + 9,738 = 91,792

156,819  $\sqrt{91,792} = .5853 = 58\%$  (125% 95)

OPGW CC-57/1465

156,740 ft Total 69,229 + 22,176 = 91,405 ft.

156,740  $\sqrt{91,405} = .5832 = 58\%$

**INSPECTOR'S WEEKLY REPORT**

Line: Merricourt wind Farm to Ellendale 230KV Project

Period: March 12 2012 to March 17 2012 Contractor: Brink

Inspector: Kenneth W. Diabes General Foreman: Seth Scott

Weather Conditions: Overcast to clear Wind from S to 30 mph. Gusts to 40 mph. Temp 30° to 75° Workmen Total: 18

**Progress:**

- 1. Roads Built \_\_\_\_\_ 91%
- 2. Gates Built (301) plates (59) (8) (5.5) (11) screws; 50 (4); 47 (4); 43 (12) (Total 45)
- 3. Material Hauled \_\_\_\_\_
- 4. Structures Framed ground wire only 42, 33, 31 and 29 "H" "H" "H" "3-86" aerial Framed STR. 50. 3-pole
- 5. Digging Structures 42, 33, 31, 29 3 poles
- 6. Structures Set 42, 33, 31, poles only 29. 3 poles only will be aerial Framed
- 7. Sock Line Pulled 115-114 to 95
- 8. Wire Strung 125-124 to 115-114; 115-114 to 98-97 & 98-97 to 95 sub total 17.389 miles
- 9. Wire Sagged & Clipped 125 to 99 - Installed dampers where called for. 99 to 95 sag late afternoon 3-17-12
- 10. ~~Chain up~~ Set line and fiber wire 114 from 1.93 to 95. Sagged 3-17-12 Subtotal 17.3120 miles

**Comments:**

Progress was good. This week with winds up to 35 to 40 mph.  
Installed 2-faced structure for crossing Hwy 11 between str. 93 & 92  
Hang dangles w/ pole line from 92 to 93 for 3-conductors, 1 shield & 1-Fiber wire  
RLW is sold in some areas with some tracking in pasture land  
and plowed fields, also hay fields.  
By wednesday 21<sup>st</sup> of March, the contractor plan to turn the  
under built over to the owner so it can be put in service.

# TRANSMISSION LINE CONSTRUCTION

## RECORD OF CONTRACTORS TIME & EQUIPMENT

PROJECT Merricourt Wind Farm to Ellendale REPORTED BY Kenneth W. Lieber  
230kW Project

DATE March  
Monday 12, 2012  
Tuesday 13, 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			39
FOREMAN		1		x	x	x	1						39
FOREMAN		1								1			39
LINEMEN		1								1			39
LINEMEN													
LINEMEN	<u>Appr</u>	3				2				1			117
LINEMEN													
LINEMEN	<u>Appr</u>	4								4			156
EQUIP. OPERATORS		1						1					
EQUIP. OPERATORS		3		x	x	x				2			117
EQUIP. OPERATORS													
GROUNDMEN		1						1					39
GROUNDMEN													
GROUNDMEN		2								2			78
GROUNDMEN													
TOTAL MEN		18	<u>13 HRS each day</u>				4		2	12			702

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

- |   |  |  |
|---|--|--|
| <u>2-2 Ton Pickups</u>                                    | <u>air compressor w/4 tanks</u>                                  | <u>High reach w/basket on each trailer for conductor</u> |
| <u>2-1 Ton Pickups</u>                                    | <u>3-Tractors w/Flat bed trailer</u>                             | <u>that have 2- steel wire stands</u>                    |
| <u>3-3/4 Ton Pickup</u>                                   | <u>1-Truck Tensioner w/12000# of H.L.</u>                        | <u>1-John Deere back hoe 410 J</u>                       |
| <u>600 Texoma Hwy digger</u>                              | <u>1-3 drum hand line pulley w/24000# used for OP&amp;W wire</u> | <u>Dynamometer</u>                                       |
| <u>500 Texoma Hwy digger w/Basket</u>                     | <u>1-1 drum hand line pulley</u>                                 | <u>1-Suman Telect Crane</u>                              |
| <u>Series 1300 Crane National w/Basket</u>                | <u>1-Truck w/runner and one steel reel for OP&amp;W wire</u>     |  |
| <u>Series 1300 crane National w/Basket</u>                | <u>1-Truck w/2-steel stands for 3/8 EHS shield wires for</u>     |  |
| <u>Series 900 crane national</u>                          | <u>on Truck two steel stand &amp; wood reels of guy wire</u>     |  |
| <u>2-National Crane w/layers mounted on small trailer</u> | <u>cat loader w/1.5 cu yds - Bucket</u>                          |  |
| <u>Air compressor w/4 Tanks</u>                           | <u>1-10 yd dump Truck</u>  |  |

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

- |  |                |
|--|----------------|
| <u>Overcast To light clouds and Sunny Foggy PM only wind 5 to 25 mph Temp 37° to 42°</u> | <u>3-12-12</u> |
| <u>Clear windy 5 to 10 mph Sunny Temp 31° to 61°</u>                                     | <u>3-13-12</u> |
| <u>light clouds Sunny wind 5 to 30 mph Temp 40° to 60°</u>                               | <u>3-14-12</u> |



# TRANSMISSION LINE CONSTRUCTION

## RECORD OF CONTRACTORS TIME & EQUIPMENT

PROJECT Merricourt Wind Farm to Ellendale REPORTED BY Kenneth W. Sieber

DATE March  
Thursday 15, 2012  
Friday 16, 2012  
Saturday 17, 2012

230KV Project

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>Garner</u>	1								1			36	
FOREMAN	1											36	
FOREMAN	1								1			36	
LINEMEN	1								1			36	
LINEMEN													
LINEMEN <u>Appr</u>	3								1			108	
LINEMEN													
LINEMEN <u>Flour</u>	4								4			144	
EQUIP. OPERATORS	1											36	
EQUIP. OPERATORS	3								1	2		108	
EQUIP. OPERATORS													
GROUND MEN	1								1			36	
GROUND MEN													
GROUND MEN	2								2			72	
GROUND MEN													
<b>TOTAL MEN</b>	<b>18</b>	<u>12 HRS each day</u>					<u>4</u>	<u>2</u>	<u>12</u>				<b>648</b>

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

John Deere skidder/haul digger \_\_\_\_\_

John Deere/National crane \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

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

Overcast windy 5 to 30mph Temp 24° to 60° 3-15-12

Light clouds and sun/windy 5 to 30mph Temp 30° to 71° 3-16-12

Clear wind 5 to 20mph Temp 35° to 75° 3-17-12

