

#13

**WEEKLY REPORT  
OF  
CONSTRUCTION PROGRESS**

**PROJECT:**

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

**DATE:** December 11, 2011

**WO:** J172396  
J186381  
JXXXXXX

**WEEK OF CONSTRUCTION:** Dec 4, 2011 to Dec 11, 2011

#13

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								78%			
	2 No! STRUCTURE ASSEMBLING					++	++					
	2 No! STRUCTURE ERECTING			++++								
	1 No! GUY & ANCHOR INSTALLATION				36%							
	46 KV 6/0 ACSR Penguin wire WIRE STRINGING (12 miles) 1 No!	+++++										
RIGHT OF WAY CLEARING										90%		
RETIREMENT	POLE LINE REMOVAL											99%
	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 12-11-2011

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

**CONTRACTOR:**  
BRINK CONSTRUCTORS, INC

**MONTANA-DAKOTA UTILITIES CO.**

BY: EH

BY: Kenneth W Fisher

December 4, 2011 to December 11, 2011

Merricourt Wind Farm to Ellendale 230KV Project

1 NO: Structure assembling  
243 total structure #12 subtotal 115 Structure  
All structure assembled this week. Dec 5, 2011 to Dec 10, 2011  
 $\begin{matrix} \#12 & \#13 \\ 115 & + 22 = 137 \end{matrix}$   $243 \sqrt{137} = .5638 = (56\%)$   
138 to 116 (22) "H" Structures  
Structure 124, 123, 120, 115 are set

2 NO: Structure Erecting 243 total  
39 #12  
 $39 + 30 = 69$   $\begin{matrix} \#13 \\ \text{Structure Erected as of this Date} \end{matrix}$   
 $243 \sqrt{69} = .2840 = (28\%)$

1 W NO: wire strung 4/0 ACSR Penguin unde build wire  
18 miles total = 95,040 ft total  
From Existing structure 330 on Existing line  
To structure 226 & 225. (snub)  
330<sup>ex</sup> to 241<sup>new</sup> 350 of New wire  
241 to between 226 & 225 = 9,600 ft.  
total of 9,600 + 350 = 9,950 ft strung sag clipped  
5280 ft in 1-mile  $\div 9,950 \text{ ft} = 1.8845 \text{ miles}$   
OR  $95,040 \sqrt{9,950} = .1047 = 10\%$

Kenneth W Fisher

### INSPECTOR'S WEEKLY REPORT

Line: Merricourt wind Farm to Elledale 230 KV Project

Period: Dec 5 2011 to Dec 8 2011

Contractor: Bowert Powerline Services

Inspector: Kenneth W. Sialan

General Foreman: Derek Brink

Weather Conditions: Temp -9° to 20°  
cloudy to clear to overcast wind 5-30mph.

Workmen Total: 10

#### Progress:

1. Roads Built \_\_\_\_\_
2. Gates Built \_\_\_\_\_
3. Material Hauled \_\_\_\_\_
4. Structures Framed \_\_\_\_\_
5. Digging \_\_\_\_\_
6. Structures Set \_\_\_\_\_
7. Sock Line Pulled EXISTING STRUCTURE 330 (46KV) to 241 then from 241 to between str 226-225
8. Wire Strung 4/0 ACSR Penguin str. 241 to between 226-225; 241 to 330 existing D.E. str. 46KV
9. Wire Sagged & Clipped 46KV Existing Structure 330 to 240 (230KV) str. 240 to between str 226 & 225
10. Clean-up \_\_\_\_\_

#### Comments:

crew installed & clipped 6/0 ACSR Penguin wire for a total of 1.8845 miles

crew used a helicopter to fly across Pleasant Lake one sock line rope from structure no: 200 to structure no: 199.

crew 4-day due to structures 214, 213, 212 was not set yet. they will be set on Saturday & Sunday the 10<sup>th</sup> & 11<sup>th</sup> of Dec.

the structures need to be gird framed due to being on edge of Pond No: 214 & 213. on Monday the 12<sup>th</sup> crew will be pulling in sock rope from 225 to between 213 & 212. for 46 KV 6/0 ACSR wire.

# TRANSMISSION LINE CONSTRUCTION

## RECORD OF CONTRACTORS TIME & EQUIPMENT

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

DATE Monday 12-5-11  
Thursday 12-8-11  
Govert Powerline Services

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>owner</u>	1											
FOREMAN <u>supervisor</u>	1											
FOREMAN												
LINEMEN	2											
LINEMEN												
LINEMEN <u>Appr.</u>	4											
LINEMEN												
LINEMEN												
EQUIP. OPERATORS	2											
EQUIP. OPERATORS												
EQUIP. OPERATORS												
GROUND MEN												
GROUND MEN												
GROUND MEN												
GROUND MEN												
<b>TOTAL MEN</b>	<b>10</b>	<u>worked 4-8 HRS each day</u>										<b>440</b>

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

- 3- 3/4 Ton Pickups \_\_\_\_\_
- 2 bucket Trucks \_\_\_\_\_
- 2 fire Trucks \_\_\_\_\_
- Four wheelbar carts \_\_\_\_\_
- 2 Flat bed Truck w/ 2 wire stand on each truck \_\_\_\_\_
- 4 Drum puller \_\_\_\_\_
- Tensioner \_\_\_\_\_
- Dynamometer \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

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

- 12-5-11 cloudy cool wind 5 to 10 mph Temp 5° to 20°
- 12-6-11 clear with fog wind 5 to 10 mph Temp -9° wind chill -24° to 18°
- 12-8-11 overcast cool winds 5 to 20 mph Temp 8° to 17°



**INSPECTOR'S WEEKLY REPORT**

Line: Mercercount Wind Farm to Ellendale 230 KV Project

Period: Dec 5, 2011 to Dec 2011 Contractor: Brink

Inspector: Kenneth W. Siskel General Foreman: Alan Hatley

Weather Conditions: Temp -9° to 36° Workmen Total: 16

**Progress:**

- 1. Roads Built \_\_\_\_\_
- 2. Gates Built \_\_\_\_\_
- 3. Material Hauled \_\_\_\_\_
- 4. Structures Framed <sup>Ground</sup> 138 to 116
- 5. Digging 229 to 216; 209 to 202; 198 to 185 also 114; 113
- 6. Structures Set 229 to 216 and 209 to 202 also 198 to 191; 114; 113
- 7. Sock Line Pulled \_\_\_\_\_
- 8. Wire Strung \_\_\_\_\_
- 9. Wire Sagged & Clipped \_\_\_\_\_
- 10. ~~\_\_\_\_\_~~ crushed rock used this week (296) cu yds for backfill material

**Comments:**

Progress was good this week. Dig (36) holes for 2-Pole structures  
and set some single poles and (30) "H" structures with 416KV under  
build. Also ground framed (22) "H" structures.  
worked 7 days this week

# TRANSMISSION LINE CONSTRUCTION

## RECORD OF CONTRACTORS TIME & EQUIPMENT

PROJECT Mariacout Wind Farm to Ellendale REPORTED BY Kenneth W. Label

DATE Monday 12-5-11  
Tuesday 12-6-11  
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 <i>Superintendent</i>	1											22
FOREMAN												
FOREMAN	1					1						22
LINEMEN												
LINEMEN <i>Appr</i>	3					3						66
LINEMEN												
LINEMEN <i>Appr</i>	1				1							22
LINEMEN												
EQUIP. OPERATORS	1				1							22
EQUIP. OPERATORS	3					3						66
EQUIP. OPERATORS												
GROUND MEN	4				4							88
GROUND MEN												
GROUND MEN	2					2						44
GROUND MEN												
<b>TOTAL MEN</b>	<b>16</b>											<b>352</b>

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

- 2 1-Ton Pickups                      Cat Loader w/ bucket 1.5 cu yd
- 2 3/4-Ton Pickups                      2-5 yd rock truck
- 1h 103 cat loader w/ Forks                      1-10 yd dump truck
- JCB 550 loader w/ framing                      6m Texaco Highway digger
- 2 2-Ton Pickups                      \_\_\_\_\_
- utilite                      \_\_\_\_\_
- small trailer hauling material for "H" structures                      \_\_\_\_\_
- Grave 70 ton crane. Rubber tire                      \_\_\_\_\_
- John Deere skidder w/ National crane                      \_\_\_\_\_
- Truck mounted radial crane with auger 12 ton                      \_\_\_\_\_
- Truck flat bed with air compressor w/ 4 tanks                      \_\_\_\_\_

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

- 12-5-11 cloudy cool wind 5 to 20 mph                      Temp 5° to 20°
- 12-6-11 clear with light E-W winds 5 to 20 mph                      Temp -9° wind chill -24°
- to overcast                      Temp -9° to 19°









# TRANSMISSION LINE CONSTRUCTION

## RECORD OF CONTRACTORS TIME & EQUIPMENT

PROJECT Mercerant Wind Farm to Ellendale REPORTED BY Kenneth W. Fisher  
*530KV Project*

DATE Friday 12-9-11  
Saturday 12-10-11  
Beink 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 <i>Supervisor</i>	1											22
FOREMAN												
FOREMAN	1				1							22
LINEMEN												
LINEMEN <i>app.</i>	3				3							66
LINEMEN												
LINEMEN <i>app.</i>	1				1							22
LINEMEN												
EQUIP. OPERATORS	1				1							22
EQUIP. OPERATORS	3				3							66
EQUIP. OPERATORS												
GROUND MEN	4				4							88
GROUND MEN												
GROUND MEN	2				2							44
GROUND MEN												
TOTAL MEN	16											352

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

Mantis 8012 cat track crane (spare deck)

John Deere with National <sup>ProSeries</sup> crane mounted on back end of skidder.

Truck mounted National crane 30 ton w/ basket

John Deere digger with Dualshoes

Elliott Power Traxx cat track crane.

Marotta Dump Truck mst 150000 rubber cat Tracks

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\_\_\_\_\_

\_\_\_\_\_

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

Friday clear wind 5 to 15 mph Temp -2° to 19°  
 wind 11-11"

Saturday clear wind 5 to 15 mph Temp 6° to 34°

# DAILY RECORD OF CONTRACTORS WORK

12-9-11 to 12-10-11

2-B-11  
Dug  
only

STAND NO.	DIGGING-FT.		POLES SET	STRUCTURE FRAMED	ANCHORS INSTALLED	AERIAL MARKER	FENCE GATES
	EARTH	ROCK					
198	23-0'	10cu yds	2-95 ct-1	12-9-11	Crushed	Rock use	backfill
197	24-0'	10cu yds	2-100 ct-1	12-9-11			
196	22-0'	10cu yds	2-90 ct-1	12-9-11			
195	24-0'	10cu yds	2-100 ct-1	12-9-11			
194	24-0'	2cu yds	2-100 ct-1	12-9-11			
193	22-0'	8cu yds	2-90 ct-1	12-9-11			
192	22-0'	10cu yds	2-90 ct-1	12-9-11			
191	23-0'	10cu yds	2-95 ct-1	12-9-11	↓	↓	↓
190	23-0'						
189	23-0'						
188	23-0'						
187	23-0'		95				
186	24-0'		100				
185	23-0'		95				
			Set single	aerial Framed			
213	22-0'	10cu yds	2-115 ct-1	T-230-A-W-T-416-H-S	Crushed	Rock use	Backfill
214	24-0'		100				
		86 cu yd of crushed rock use. for backfill material					
	3740'	Earth dug's on Friday and					

**PROGRESS OF CONDUCTOR STRINGING, SAGGING, CLIPPING**

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

9 men dug Pole holes and Set "H" Structures that are listed above. also set single poles for "H" Structures and aerial Framed Structure 213. dug Pole holes for 214. Installed Polymer Insulators w/ Porona Rings also hung Travelers on all insulators installed on "H" Structures from 241 to Structure 95 with Peeling Paper on all Travelers. also for Static and Fiber wires

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# TRANSMISSION LINE CONSTRUCTION

## RECORD OF CONTRACTORS TIME & EQUIPMENT

PROJECT Marquette wind farm to Ellendale 230kV Project REPORTED BY Kenneth W. Sabor

DATE Sunday 12-11-11  
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 <i>Supervisor</i>	1				X	X						10
FOREMAN	1				X	X						10
LINEMEN	3				X	X						30
LINEMEN <i>Aggs</i>	1				X	X						10
LINEMEN <i>Aggs</i>	1				X	X						10
EQUIP. OPERATORS	1				X	X						10
EQUIP. OPERATORS	3				X	X						30
EQUIP. OPERATORS	4				X	X						40
GROUND MEN	2				X	X						20
GROUND MEN												
GROUND MEN												
GROUND MEN												
<b>TOTAL MEN</b>	<b>16</b>	<i>X- all men worked setting structure &amp; ground framing</i>										<b>160</b>

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


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

*clear wind 5-15 mph. Temp 18° to 36°*

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