

#15

**WEEKLY REPORT
OF
CONSTRUCTION PROGRESS**

PROJECT:

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

DATE: December 22, 2011

WO: J172396
J186381
JXXXXXX

WEEK OF CONSTRUCTION: Dec. 19, 2011 to Dec. 22, 2011

#15

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									++++		90%
	2 NO! STRUCTURE ASSEMBLING							++++				68%
	2 NO! STRUCTURE ERECTING					++++						55%
	1 NO! GUY & ANCHOR INSTALLATION				++							38%
	46KV 60ACSR Penguin wire only WIRE STRINGING Total 1.2 miles						+++++	+++++				70%
	RIGHT OF WAY CLEARING											90%
RETIREMENT	POLE LINE REMOVAL											97%
	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 12-22-2011

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

CONTRACTOR:
BRINK CONSTRUCTORS, INC

BY: AH

MONTANA-DAKOTA UTILITIES CO.

BY: Kenneth W. Fisher

December 19, 2011 to December 23, 2011

Merricourt wind Farm to Ellendale 230KV Project

3 NO: Material Hauled in Field For 243 Structures.
Start at Structure No: 1 working back to Structure No: 50
243 to 25 for Total of 218 Structures
$$\frac{243}{218} = .8971 = 90\%$$

2 NO: Structure assembling
243 total Structure # 153 + ^{#15} 12 = 165
$$\frac{243}{165} = .6790 = 68\%$$

2 NO: Structure Erecting 243 Total
^{#14} #112 + ^{#15} 22 = 134 $\frac{243}{134} = .5514 = 55\%$

1W NO: Wire String 410 acsr Penguin underbuild wire
18 miles total = 95,040 ft. Total
47,204 ft. + 19,400 ft. = 66,604 ft
$$\frac{95040}{166609} = .7009 = 70\%$$

1 NO: Guy and anchor installation
323 + 9 new anchors at Structure No: 95
332 Total #14 , 3591
#9 116 + 11 = 127
$$\frac{332}{127} = .3825 = 38\%$$
 #14

INSPECTOR'S WEEKLY REPORT

Line: Merricourt Wind Farm to Ellendale 230KV Project

Period: Dec 19, 2011 to Dec 22, 2011 Contractor: Brink

Inspector: Kenneth W. Sisher General Foreman: Jason Hotley

Weather Conditions: Temp 15° to 34° Workmen Total: 28

Progress:

- 1. Roads Built _____
- 2. Gates Built _____
- 3. Material Hauled From Structure No 1 to Structure 25
- 4. Structures Framed at Structure 98; 93, 94, 91 to 89; 26 to 25; 22 to 21 & 28-28
- 5. Digging Pole holes for "H" Structures 140 to 116 Total of 25 + 25 = 50 holes dug
- 6. Structures Set 2 pole "H" Structures from 142 to 117 Total of 22 Structures Set
- 7. Sock Line Pulled _____
- 8. Wire Strung _____
- 9. Wire Sagged & Clipped _____
- 10. Clean-up _____

Comments:

Progress was slow, digging crew hit rocky areas which slowed down the setting crew. (Total Earth & large rock were 465 cu yd)
 crews used (150 cu yds of crushed Rock) this week.
 crew hauled Poles, crossarms, x-braces, knee braces & vee braces
 from Structure No 1 to Structure No: 25.
The contractor will shut down on December 27, 2011 and
return on January 4, 2012. During Christmas and New Years.

TRANSMISSION LINE CONSTRUCTION

RECORD OF CONTRACTORS TIME & EQUIPMENT

PROJECT Merricourt Wind Farm to Ellendale REPORTED BY Kenneth W. Fisher
230KV Project

DATE Monday 19, 2011
Tuesday 20, 2011
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	SETTING Guard Str. on 8 Poles on 10/0 Guard Str. Poles	TOTAL HOURS
FOREMAN <i>Supervisor</i>	1												
FOREMAN	1				1								
FOREMAN	2		1									1	
LINEMEN	1		1										
LINEMEN													
LINEMEN <i>appr.</i>	4			1		3	1						
LINEMEN <i>appr.</i>	1				1								
LINEMEN													
EQUIP. OPERATORS	4			1		3							
EQUIP. OPERATORS	2		1		1								
EQUIP. OPERATORS	1											1	
GROUNDMEN	3			1		2							
GROUNDMEN	4				4								
GROUNDMEN	2		2										
GROUNDMEN	2						2					2	
TOTAL MEN	28	11 HRS a day											616

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

- 2-2 Ton Pickups John Deere digger w/ Dual wheels 16 103 cat loader w/ Forks
- 2-1 Ton Pickups 500 Teroma Hwy digger JCB 550 loader w/ framing bin
- 2-3/4 Ton Pickups Hwy digger JCB 550 loader w/ Forks
- Elliot Power Trax cat track crane Air compressor w/ 4 Tanks mounted on Flat bed Truck
- Mantis 800 cat track crane cat loader w/ 1.5 cu yd bucket 2-Tractor w/ Flat bed trailers
- John Deere with National 740/500D crane mounted on back of 5th wheel 1-Tractor w/ pole haul trailer
- Truck mounted National crane 30 ton w/ bucket John Deere 410 J backhoe
- Terex 90 Ton crane rubber tire 2- 5 cu yd rock Trucks
- John Deere skidder w/ National crane 1- 10 cu yd Dump Truck
- Truck mounted National crane w/ auger 18 ton

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

- 12-19-11 Clear cool wind 5 to 30 mph Temp 19° to 26°
- 12-20-11 light clouds wind 5 to 30 mph Temp 10° to 33°

DAILY RECORD OF CONTRACTORS WORK

12-19-11 to 12-20-11

STAND NO.	DIGGING-FT.		POLES SET	STRUCTURE FRAMED	ANCHORS INSTALLED	AERIAL MARKER	FENCE GATES
	EARTH	ROCK					
142		10 cu yds	2-100 ct-1	12-19-11	Crushed Rock used for backfill		
141		10 cu yds	2-95 ct-1				
140	23.0'	10 cu yds	2-95 ct-1				
139	23.0'	10 cu yds	2-95 ct-1				
138	23.0'	10 cu yds	2-95 ct-1				
137	24.0'	10 cu yds	2-100 ct-1				
136	23.0'	10 cu yds	2-95 ct-1				
135	24.0'	10 cu yds	2-100 ct-1	12-19-11			
134	24.0'	10 cu yds	2-100 ct-1	12-19-11 Dug 12-20-11 Set			
132	23.0'	10 cu yds	2-95 ct-1	12-19-11 Dug 12-20-11 Set			
131	23.0'	10 cu yds	2-95 ct-1	12-19-11 Dug 12-20-11 Set			
130	23.0'	10 cu yds	2-95 ct-1	12-19-11 Dug 12-20-11 Set			
129	23.0'	10 cu yds	2-95 ct-1	12-20-11			
128	23.0'	10 cu yds	2-95 ct-1	12-20-11			
127	23.0'	10 cu yds	2-95 ct-1	12-20-11			
126	23.0'		2-95 ct-1	12-20-11			
125	23.0'		2-95 ct-1	12-20-11			
	348.0' St	150 cu yds					

17" H Structure set in 2 days

PROGRESS OF CONDUCTOR STRINGING, SAGGING, CLIPPING

Guard Structure single phase between 150-149 Dug & Set
 Guard Structure single phase between 125-126 Dug & Set

Removed guard structures between structure 183-182 Hwy 11 crossing
 Removed guard structures between structure 159 & 158 Frisco Hwy crossing

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

12 Men setting and digging holes for "H" Structure. (not one listed above).

5 men hauling Poles, cross arms, X-braces, Knee Braces & U-bolts
 To Structure No. 1 working towards structure no. 50

4-Men digging and setting guard structures and also removing guard structures.

5 men erect Framed Structure 95, add top set of X-braces. Then installed screw anchors.

TRANSMISSION LINE CONSTRUCTION

RECORD OF CONTRACTORS TIME & EQUIPMENT

PROJECT Mercourt wind farm to Ellendale REPORTED BY Kenneth W. Diehl
2011 Project

DATE Wednesday 12-21-11
Thursday 12-22-11
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 <small>supervisor</small>	1											
FOREMAN	1					1						
FOREMAN	2		1								1	
LINEMEN	1		1									
LINEMEN <small>appr.</small>	4			1		3						
LINEMEN <small>appr.</small>	1				1							
LINEMEN												
EQUIP. OPERATORS	4			1		3						
EQUIP. OPERATORS	2		1		1							
EQUIP. OPERATORS	1										1	
GROUNDMEN	3			1		2						
GROUNDMEN	4				4							
GROUNDMEN	2		2									
GROUNDMEN	2										2	
TOTAL MEN	28	wed. 28 x 11 HRS = 308 } Total 476 HRS Thursday 28 x 6 HRS = 168 }										476

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

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

12-21-11 Overcast cool wind 5 to 10 mph Temp 26° to 34°

12-22-11 Clear cool wind 5 to 20 mph Temp 15° to 32°

INSPECTOR'S WEEKLY REPORT

Line: Merricourt wind Farm to Ellendale 230KV Project

Period: Dec. 19, 2011 to Dec 22, 2011 Contractor: Garret Power Line Service

Inspector: Kenneth W. Fisher General Foreman: DEREK BRINK

Weather Conditions: Clear to overcast cool wind 5 to 30 mph. Temp 10° to 34° 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 From 162-168 to 154-152 & 154-152 to 139-138. Total 3.62 miles
- 8. Wire Strung same as wai 7
- 9. Wire Sagged & Clipped same as wai 7
- 10. Clean-up _____

Comments:

Progress this week was good; total 19,400 ft installed and complete as of Dec. 22, 2011. Total miles 3.62 miles. This week Sec a total of 70% complete.

The Contractor will shut down on December 22, 2011 and return on January 9, 2012. During Christmas and New years.

TRANSMISSION LINE CONSTRUCTION

RECORD OF CONTRACTORS TIME & EQUIPMENT

PROJECT Merrimack wind Farm to Ellendale REPORTED BY Kenneth W. Sisk
230KV Project

DATE Monday 12-19-11
To Thursday 12-22-11
Govert Petroleum Service

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>owner</i>	1								1			27
FOREMAN <i>superintendent</i>	1								1			27
FOREMAN												
LINEMEN	2								2			54
LINEMEN <i>appr.</i>	2								2			54
LINEMEN												
LINEMEN												
EQUIP. OPERATORS	2								2			54
EQUIP. OPERATORS												
EQUIP. OPERATORS												
GROUND MEN	2								2			54
GROUND MEN												
GROUND MEN												
GROUND MEN												
TOTAL MEN	10	<i>worked 11 HRS. each Day for Days This week</i>										270

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

- 3- 3/4 Ton Pickups _____
- 3- bucket Trucks _____
- 2- Lino Trucks _____
- 3 National Cranes w/ Baskets _____
- 4- Dera puller _____
- 2 Flat beds truck w/ 20000 stands on each truck _____
- single wheel Tensioner _____
- Dynamometers _____
- John Deere JD 440 skidder w/ blade & 4 wheel for sock line puller _____
- D. cat w/ blade & ripper used for scrubbing wire too. _____

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

<u>12-19-11</u>	<u>clear cool wind 5 to 10 mph</u>	<u>Temp 19° to 26°</u>
<u>12-20-11</u>	<u>light clouds wind 5 to 30 mph</u>	<u>Temp 10° to 33°</u>
<u>12-21-11</u>	<u>overcast cool wind 5 to 10 mph</u>	<u>Temp 26° to 34°</u>

DAILY RECORD OF CONTRACTORS WORK

12-19-11 to 12-22-11

STAND NO.	DIGGING-FT.		POLES SET	STRUCTURE FRAMED	ANCHORS INSTALLED	AERIAL MARKER	FENCE GATES
	EARTH	ROCK					
From 169-168 to 154-153 6/0 acsr wire. Pulled was (9,700 ft) on 3-steel that had 9,700ft on each steel reel $5200 \times 2 = 10,400$ = 1.84 miles							
From 154-153 to 139-138 6/0 acsr wire. Pulled was (9,700 ft) on 3 steel reels that had 9,700ft. on each steel reel $5200 \times 2 = 10,400$ = 1.84 miles							
This Work				3.68 miles total			

PROGRESS OF CONDUCTOR STRINGING, SAGGING, CLIPPING Pulled in 3-Phase of Open sock line Span between 169-168 to 154-153 also 154-153 to 139-138 and 139-138 to 124-123

Pulled in 6/0 acsr wire then sagged wire Span 5 Structure 168-169 to 154-153 and 154-153 to 139-138 also 139-138 to 124-123.
 Clipped all structures Span 169 to 124.
 cut in Deadend at structure 168 made up jumpers also.

GENERAL REMARKS (Include RW, Material, Inspection Decisions)
 crews completed the clipping in phase at each structure also deadend structure 163 to structure 124-123.

The contractor will shut down on Dec 22, 2011 and return on January 9th 2012. During christmas and new years.