

**WEEKLY REPORT
OF
CONSTRUCTION PROGRESS**

PROJECT:

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

DATE: March 24, 2012

WO: J172396
J186381
JXXXXXX

WEEK OF CONSTRUCTION: March 19, 2012 to March 24, 2012

#27

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																			96%
	STRUCTURE ERECTING																			97%
	GUY & ANCHOR INSTALLATION																			98%
	230KV 954 mm ² ACSR 4/5/7 Conductor 3/0 EHS shield wire WIRE STRINGING 2 PEW wire 230KV-465																			73%
																				64%
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:

134 PU-10-164 Filed: 3/30/2012 Pages: 7
Merricourt, Ashley, Wishek to Ellendale progress
report, week ending 3-24-2012

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 Pisha HPR.

March 19th 2012 To March 24th 2012

Merricourt Wind Farm to Ellendale 230KV Project

2 NO: Structure Assembling STR. 43, 44, 42, 45, 47, 32

243 Total $230 + 4 = 234$ * have been counted earlier

$243 \overline{) 234} = .9630 = 96\%$

1 NO: Guy and anchors Installation

333 Total $297 + 31 = 328$ 43 (2) anchors, 29 (2) anchors;

$333 \overline{) 328} = .9850 = 98\%$ I (15) anchors

1-W wire string 230KV 954mm OCSR 5/3p EHS.

Shield wire $91,792 + 3,364 + 9,774 + 10,000 = 114,930$ ft

156,819 ft Total

$156,819 \overline{) 114,930} = .7329 = 73\%$

OPGW CC-57/1465

156,740 ft Total $91,405 \text{ ft} + 8720 = 100,125$

$156,740 \overline{) 100,125} = .6388 = 64\%$

INSPECTOR'S WEEKLY REPORT

Line: Massena Wind Farm to Ellendale 230KV Project

Period: March 19, 2012 to March 24, 2012 Contractor: Brink

Inspector: Kenneth W. Sisker General Foreman: Seth Scott
Overcast - P'tly cloudy - clear winds 5 to 44 mph

Weather Conditions: Temp. 34° to 70° Workmen Total: 25

Progress:

1. Roads Built _____
2. ~~Gates Built~~ Anchor Installation Structures 43 (8), 29 (2), 92 (15) = (31) Total for the week
3. Material Hauled _____
4. Structures Framed actual T-230 JP (43); T-230 A (42) & (45); T-230 E (49); T-230 A-32
5. Digging _____
6. Structures Set _____
7. Sock Line Pulled D.E. D.E. D.E. 95 to 92; 92 to 76-75; 76-95 to 63-62; 63-62 to D.E. 53
8. Wire Strung 95 to 92; 92 to 76-75; 76-95 to 63-62
9. Wire Sagged & Clipped D.E. D.E. D.E. D.E. D.E. 95 to 92; 92 to 87; 87 to 77
10. ~~Clearing~~ OPGW 1-65 miles wire 92 to 80 (8,720 ft)

Comments:

Progress was good this week. Windy most of the week.
There is (5) anchors left to be installed at D.E. Structure with
all anchor will be installed on the project when the (5) anchors
are installed. All Plates anchors installed have tested to 10,000 lb pull.
Contractor has fixed fence from 214 to 209. also put grounds on
fence in this area. also on more land 75% of the fence has
been ground.

TRANSMISSION LINE CONSTRUCTION

RECORD OF CONTRACTORS TIME & EQUIPMENT

PROJECT Merricourt Wind Farm to Elpendale REPORTED BY Kenneth W. Lichen
230 KV Project

DATE March
Monday 19, 2012
Tuesday 20, 2012
Wednesday 21, 2012

Brink Contractor		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	
MEN	NO.												
FOREMAN <i>General</i>	1							1				36	
FOREMAN	1											36	
FOREMAN	1								1			36	
LINEMEN	1								1			36	
LINEMEN													
LINEMEN <i>Appr.</i>	7						3		4			180	
LINEMEN													
LINEMEN <i>Appr.</i>	4								4			144	
EQUIP. OPERATORS	1							1				36	
EQUIP. OPERATORS	3						1		2			108	
EQUIP. OPERATORS													
GROUNDMEN	2							1	1			72	
GROUNDMEN													
GROUNDMEN	4								4			72	
GROUNDMEN													
TOTAL MEN	25	12 HRS DAYS.						5	2	18			756

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

<u>3- 2 Ton Pickups</u>	<u>Air compressor w/4 tanks</u>	<u>John Deere backhoe 4110T</u>
<u>2- 1 Ton Pickups</u>	<u>air compressor w/2 tanks</u>	<u>2- Dynamometers</u>
<u>3- 3/4 Ton Pickups</u>	<u>3- Tractor w/Flat bed trailers</u>	<u>on each Tractor for conductor wire that have two steel stands</u>
<u>600 Texoma Hwy digger</u>	<u>1- Truck Tension w/13000ft of H.L.</u>	<u>1- Sigma Telet Crane</u>
<u>500 Texoma Hwy digger</u>	<u>1- 3 drum hand line pulley w/24000ft used for OPGW wire</u>	<u>High reach w/basket</u>
<u>John Deere skidder w/Basket</u>	<u>1- 1 drum hand line pulley</u>	
<u>Series 1800 National crane w/Bucket</u>	<u>1- Truck w/ tension and stand stand wind for OPGW wire</u>	
<u>Series 1300 National crane w/Bucket</u>	<u>1- Truck w/2 steel stand for 3/4 EHS Shield wire</u>	
<u>Series 800 National crane</u>	<u>cat loader w/1.5 cu yd bucket</u>	
<u>John Deere skidder w/National crane</u>	<u>10 cu yd Dump Truck</u>	

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

<u>overcast windy 5 to 30 gust up to 44 mph</u>	<u>Temp 38° to 73°</u>	<u>3-19-12</u>
<u>Ptly Cloudy sunny wind 5 to 20 mph</u>	<u>Temp 34° to 65°</u>	<u>3-20-12</u>
<u>Clear sunny wind 5 to 15 mph</u>	<u>Temp 30° to 69°</u>	<u>3-21-12</u>

DAILY RECORD OF CONTRACTORS WORK

3-19-12, 3-20-12, 3-21-12

STAND NO.	DIGGING-FT.		POLES SET	STRUCTURE FRAMED	ANCHORS INSTALLED	AERIAL MARKER	FENCE GATES
	EARTH	ROCK					
43				T-230TP	8 anchors	3-19-12	
29				T-230-F	8 anchors	3-19-12	
7				F-230A	ground wire on both poles		
8				F-230A	ground wire on both poles		
				* Hung Dollies with peak line for all Phases on Structure 44-543			
43				T-230TP	Round Framing	3-20-12	
				Installed all down guys. To 20 anchors.			
44 *				F-230A	Round Framed	3-21-12	
42 *				T-230A	Round Framed	3-21-12	

PROGRESS OF CONDUCTOR STRINGING, SAGGING, CLIPPING *crew clipped in all wire from 96 Towards 115. 3-19-12 & 3-20-12 installed dampers where need on all wires, also sag 3-conductor Phase and 1-shield wire Phase between D.E. structures 95 & 92.*

Pulled handline and 3/8 EHS shield wire then 3-conductor Phases in Span D.E. STR. 95 to D.E. STR. 92. crossed Hwy 11 between 92-92. made up D.E. on wire and made up jumpers at both D.E. STR. 95 & 92. Pulled sock line from D.E. STR. 92 to 76-75. Pulled 2-Phases of conductor in Span 76-75 to D.E. 92, 3-20-12. Last Phase of conductor wire in on 3-21-12, cut in D.E. STR. 92 both sides, for conductors and 3/8 shield wire. Sag between structures 92 & 89 D.E. structures.

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

2-Men installing anchors fasted above. Tuesday & Wednesday they help the wire operation while waiting for Locates on STR. 1 to 8.

5-round framed. to windy so put ground wire on "H" structures. 8-round framed structures listed above.

Hung Dollies with Peak line on all structures for all wire Span 62 Towards 75-76

OPGW wire. Pulled in Sock line from D.E. structures 95 to 80. Then pulled 1st OPGW wire Span 80 DE on "H" structures to D.E. structure 95. 3-20-12. Sag OPGW from 95 to 80. running D.E. STR. 97, 93 and D.E. at STR. 80 down the pole.

