

**WEEKLY REPORT
OF
CONSTRUCTION PROGRESS**

PROJECT:

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

DATE: March 31, 2012

WO: J172396
J186381
JXXXXXX

WEEK OF CONSTRUCTION: March 26, 2012 to March 31, 2012

#28

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																					98%
	2 No: STRUCTURE ERECTING																					98%
	1 No: GUY & ANCHOR INSTALLATION																					100%
	230KV 954 MCM GCSR 457 Conductor 3/8 EHS shield wire 3/8 PSW wire WIRE STRINGING CE 54-1165																					81%
	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:

135 PU-10-164 Filed: 4/11/2012 Pages: 7
Merricourt, Ashley, Wishek to Ellendale progress
report, week ending 3-31-2012

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 Disher HDR

March 26, 2012 to March 31, 2012

Merrimack Wind Farm to Ellendale 230 KV Project

2 NO: Structure assembling T-230-A = 8, 9 and 6 ; T-230-G, 29,

243 Total $234 + 4 = 238$

$243 \overline{)234} = .9794 = 98\%$

2 NO: Structure Erecting T-230-A 8, 7 & 6

243 Total $235 + 3 = 238$

$243 \overline{)238} = .9794 = 98\%$

1 NO: Guy & anchor installation 2 - 5 anchors

333 Total $328 + 333$

$333 \overline{)333} = 1.00 = 100\%$

1-W wire string 230KV 954 mcm 45/7 ACSR $\frac{3}{8}$ EHS.

Shield wire

156,819 ft Total $114,930 + 7,652 + 5,245 = 127,827$ ft

$156,819 \overline{)127,827} = .8151 = 81\%$

OPGW CC-57/1465

156,740 ft Total $100,125 + 18,594 = 118,719 + 16,245$ ft = 134,964

$156,740 \overline{)134,964} = .8611 = 86\%$

INSPECTOR'S WEEKLY REPORT

Line: Merrickmont Wind Farm To Ellendale 230KV Project

Period: March 26, 2012 To March 31, 2012 Contractor: BRINK

Inspector: Kenneth W. Deater General Foreman: Seth Scott

Weather Conditions: overcast, Fog to clear Very Breezy 10 to 40mph Gust up to 50mph; Temp 28° to 74° Workmen Total: 24

Progress:

1. Roads Built _____
Anchor
2. ~~Gate~~ ~~Bank~~ Installing screw anchors: STR 7 (5); 191-C (1)
3. Material Hauled _____
aerial T-230-A 3-pole T-230-A T-230A T-230-A
4. Structures Framed 3.1" H" STR; 29 2205; 8" H" STR; 7" H" STR and 6" H" STR.
5. Digging "H" Structures 8, 7, 6
6. Structures Set 8-2-95 cl-2; 7-2-95 cl-2 and 6-2-90 cl-2.
7. Sock Line Pulled STR. 64 to D.E STR. 53; From D.E STR. 53 to D.E STR. 43.
8. Wire Strung STR. 64 Through D.E STR. 55 Then To D.E STR. 53; From D.E STR. 53 to D.E STR. 43
9. Wire Sagged & Clipped STR. 64 to D.E STR. 55 to D.E STR. 53; From D.E STR. 53 to D.E STR. 43
angle 50, 49 5" H" STR. 44
10. ~~Close up~~ ^{OPGW} Sock Line from D.E. 3-pole angle No. 80 to D.E. 3-pole STR. 55 Then pulled in OPGW wire from 80 to 55. Sag and Clipped install vibration dampers where called for. Also sock line in from D.E STR. 55 to "H" D.E at STR. 30 for fiber only.
Pulled OPGW wire in from D.E STR. 55 to "H" D.E STR. 30. D.E STR. at 55, 53 & 43 angle 50, 49 5" H" STR. 44

Comments:

all anchors for this job has been installed and tested
from structure No. 243 to STR. No. 1 as of 3-26-12.

Outage for 230KV line between switches 5176 & 5180 at Tatanka and 5129 at Ellendale Sub.
* change from March 30 to April 1, 2012.
From March 30 to * March 31, 2012. Instead of March 29, March 30, 2012. Due to
weather. This was done so the New 230KV line could go over the top of the
existing 230KV line. Between new structures 44 and 43. is the crossing
of the existing 230KV line.

TRANSMISSION LINE CONSTRUCTION

RECORD OF CONTRACTORS TIME & EQUIPMENT

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

DATE Monday 26, 2012
Tuesday 27, 2012
Wednesday 28, 2012

MEN	NO.	TRAILS & LANDINGS	POLES & MATERIAL HANDLING	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
		Check for	Check for	Check for	Check for	Check for	Check for	Check for	Check for	Check for	Check for	
FOREMAN	1	x 1										32
FOREMAN	1			*	* 1							24
FOREMAN	1	x 1										32
LINEMEN	1											24
LINEMEN	7	x 2			3			4				184
LINEMEN	3							3			12 HRS	72
EQUIP. OPERATORS	1	x 1					1				12 HRS	32
EQUIP. OPERATORS	3			*	* 1			2			12 HRS	72
EQUIP. OPERATORS											12 HRS	32
GROUNDMEN	2	x 1					1	1			12 HRS	56
GROUNDMEN	4							4				96
GROUNDMEN												
TOTAL MEN	24	Monday 12 HRS, Tuesday Six men 8 HRS										624

18 men work 2 HRS then went home for the day (Highwinds Gust up to 50 mph)

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 backho 21168</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/Flatbed Trailers with two steel stands on each</u> | <u>Trailer for conductor</u> |
| <u>600 Texoma Hwy digger</u> | <u>1-Truck Tensioner w-12,000ft of H.L.</u> | <u>1-Simon Telect crane</u> |
| <u>500 Texoma Hwy digger</u> | <u>1-3 drum hand line puller w/24000 ft used for OPGW wire</u> | <u>High reach w/basket</u> |
| <u>John Deere skidder with digger w/Basket</u> | <u>1-1 drum hand line puller</u> | |
| <u>Series 1800 National crane w/Basket</u> | <u>1-Truck w/Tension and steel stand used for OPGW wire</u> | |
| <u>Series 1300 National crane w/Basket</u> | <u>1-Truck w/2 steel stand for 3/4 HRS shield wire</u> | |
| <u>Series 800 National crane</u> | <u>cat loader w/1.5 cu yds</u> | |
| <u>John Deere skidder w/National</u> | <u>1-10 cu yd dump truck</u> | |

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

- overcast to sunny windy 10 to 30 mph Gust up to 40 mph Temp 40° to 60° 3-26-12
- overcast windy 10 to 40 mph with Gust up to 50 mph Temp 37° to 52° 3-27-12
- overcast to Pity cloudy winds 5 to 20 mph Temp 33° to 3-28-12
- To windy to work all men on Tuesday the 27th. Only 6 men work today

DAILY RECORD OF CONTRACTORS WORK

3-26-12 & 3-27-12 & 3-28-12

STAND NO.	DIGGING-FT.		POLES SET	STRUCTURE <small>Ground Framed</small>	ANCHORS INSTALLED	AERIAL MARKER	FENCE GATES
	EARTH	ROCK					
8	23.0'	2-25.00"	covered holes	T-230-A	Put ground	wire on	Poles
7	23.0'	2-25.00"	"	T-230-A	" "	" "	"
6	23.0'	2-25.00"	"	T-230-A	" "	" "	"
31			2-110 cl-1	T-230-A	aerial framed		3-28-12
29			3-90 cl-2	T-230-A	aerial framed		3-28-12
1					5 anchors	IN stalled	3-26-12
Wichita - Ellendale		230KV	Transmission line	Merricourt	Tops TL	091	
191 C				T-230-PE	8 anchors	Started	
					1 anchor	3-7-3-3"	3-26-12
						Pls 3-7" 10" 12" Holes	

3-26-12

PROGRESS OF CONDUCTOR STRINGING, SAGGING, CLIPPING *Crew finished work on clipping*

angle structures: 80, 73, 71 & 69. 3-26-12 & 3-28-12. Also clipped structure 79 to 64 installed dampers where called for on all wires. 3-26-12-29-12. Pulled sack line from 64 to D.F. STR. 53 also conductor wire and 3/8" EHS. shield wire for same. Sag conductor & shield wire in STR. 64 to D.F. STR. 55 then from D.F. STR. 55 to D.F. STR. 53. 3-29-12.

Pulled in sack line from STR. 80 to D.F. STR. 55. 3-26-12 & 3-28-12. Then pulled in OPGW wire from "H" D.F. on STR. 80 to D.F. STR. 55. also sagged OPGW wire from STR. 80 to D.F. STR. 55.

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

2 men installing screw anchors for structures listed above also cleaning up the R/W. Put dirt around poles, fill in ruts, fix fence from STR. 243 toward STR. 95. 5 men Ground framed poles Ground wire only dug holes for "H" structures listed above. also aerial framed structures listed above.

17 men working on wire operation from STR. 63-62 to STR. 53 also STR. 53 to 43 OPGW wire from STR. 95 to 80; STR. 80 to 55 on STR. 55 to 30. Hung Dales with packing caps from STR. 55 to 44. for all wires.

TRANSMISSION LINE CONSTRUCTION

RECORD OF CONTRACTORS TIME & EQUIPMENT

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

DATE Thursday 29, 2012
Friday 30, 2012
Saturday 31, 2012

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>General</i>	1								1			39
FOREMAN	1			*	*	*	1					39
FOREMAN	1								1			39
LINEMEN	1								1			39
LINEMEN <i>Hppr</i>	7			x	x	x	3		4			273
LINEMEN												
LINEMEN <i>Hppr</i>	3								3			117
EQUIP. OPERATORS	1			x	x	x	1					39
EQUIP. OPERATORS	3								2		1	117
EQUIP. OPERATORS												
GROUNDMEN	2								1		1	78
GROUNDMEN												
GROUNDMEN	4								4			156
GROUNDMEN												
TOTAL MEN	24	<i>13 HRS each day - 3 days</i>					5		17		2	936

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

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

overcast Rain in AM. Partly cloudy sunny breezy at time Temp 40° to 54° 3-29-12
Fog until 10:00am light cloudy sunny Breezy 5 to 25mph Temp 28° to 55° 3-30-12
clear wind 5 to 20mph Temp 42° to 74° 3-31-12

