

**WEEKLY REPORT
OF
CONSTRUCTION PROGRESS**

PROJECT:

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

DATE: February 4, 2012

WO: J172396
J186381
JXXXXXX

WEEK OF CONSTRUCTION: January 30, 2012 to February 4, 2012

20

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																					93%
	STRUCTURE ERECTING																					93%
	GUY & ANCHOR INSTALLATION																					44%
	30KV 954mm GSR 45/7 conductor 9xENS shield & Fiber wire WIRE STRINGING																					6%
	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:

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Merricourt, Ashley, Wishek to Ellendale progress
report, week ending 2-4-2012

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 Sider

January 30, 2012 to February 4 2012

Merricourt Wind Farm to Ellendale 230KV Project

2 NO: Structure assembling 2-3-Poles 80573

243 total structures $225 + 2 = 227$

$$243 \overline{227} = .9342 = 93\%$$

2 NO: Structure Erecting Structure 91-H ST. & 2-Pole ST. 80573

243 total structure $223 + 3 = 226$

$$243 \overline{226} = .9300 = 93\%$$

1 NO: Guy and anchors installation

323 total $129 + 13 = 142$

$$323 \overline{142} = .4396 = 44\%$$

1W Wire string 230KV 954 mm acsr 45/7, $\frac{3}{8}$ EHS shield wire
and OPGW Fiber wires 156819 ft for 29.70 miles

$$156819 \overline{19229} = 0.589 = 6\%$$

9,229 ft this week

INSPECTOR'S WEEKLY REPORT

Line: Merricourt wind Farm to Ellendale 230KV Project

Period: January 30 to February 4, 2012 Contractor: Brink

Inspector: Kenneth W. Fisher General Foreman: Seth Scott

Overcast, 3 days of fog Friday & Saturday wind 5-10 mph

Weather Conditions: Temp 10° to 40° Workmen Total: 19

Progress:

1. Roads Built _____
anchor installation
2. ~~_____~~ 92. 5-plate anchors 1" x 24" x 10" 82. 8 screws anchors
3. Material Hauled _____
4. Structures Framed 2-3 Poles Structure 80° 93
5. Digging 1-H STA 91 and 2-3-Pole structures 80° 93
6. Structures Set 91, H; 2-3-pole STA 80° 93
7. Sock Line Pulled Ellendale Sub to Structure 228-229 to socks
Fiber wire from Ellendale D.E. Tower to Structure 216.
8. Wire Strung Ellendale Sub to Structure 228-229 to socks
9. Wire Sagged & Clipped Ellendale sub to Structure 229. Plus Dampers and U-wires sagged
where needed.
10. ~~_____~~ Total miles of wire completed 1.75 miles or 5% of Project.

Comments:

Contractor started his wire operation on Monday 30th January 2012. They got the clearance on the 46KV Line at 12:00 P.M. Crew started moving center phase of under build toward the east about 10 feet. This will be done at each structure for 14 miles. So the hard line and conductor wires will not rub on under build wires. Hung dangles in place for conductor, shield wires and fiber wire at each structure. Installed jumpers on D.E. Tower, SODE ST. #241 D.E. ST. Installed anchors at 3-Pole Structure 80° 92 aka 83.
Installed Grounds on Deadend Structure 241. Will stay on until Project complete.

TRANSMISSION LINE CONSTRUCTION

RECORD OF CONTRACTORS TIME & EQUIPMENT

PROJECT Merricourt Wind Farm to Ellendale REPORTED BY James M. Fisher
220K Project

DATE Monday 1-30-12
Tuesday 1-31-12
Wednesday 2-1-12

Brink Contractor

MEN	NO.	TRAILS & LANDINGS	POLE & MATERIAL HAULING	HOLE DIGGING 1-30-12	STRUCTURE FRAMING (Ground)	STRUCTURE SETTING	STRUCTURE FRAMING (Aerial)	1-30 ANCHOR INSTALLATION 1-31-12	CONDUCTOR HAUL STRING, SAG, CLIP	CLEAN-UP WORK	LOST TIME DUE TO ADVERSE WEATHER	TOTAL HOURS
FOREMAN <u>General</u>	1											33
FOREMAN	2					1 x 1						66
FOREMAN	1								1			33
LINEMEN	1								1			33
LINEMEN <u>Appr.</u>	3				2 y 2				1			99
LINEMEN <u>Appr.</u>	3								3			99
LINEMEN												
LINEMEN												
EQUIP. OPERATORS	1		1x					1x				33
EQUIP. OPERATORS	3								3			99
EQUIP. OPERATORS												
GROUNDMEN	1		1x					1x				33
GROUNDMEN	1					1 x 1						33
GROUNDMEN	2								2			66
GROUNDMEN												
TOTAL MEN	19											627

*3 days at 11 hrs each day
 2
 4 Sun
 12*

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

- 2-2 Ton Pickup 2- Tractor w/ Flatbed Trailer with 2 wire stands on them
- 2-1 Ton Pickup 1- Truck w/ Tensioner 1- Truck Flatbed w one wire reel stand and tensioner for OPGW wire
- 3- 3/4 Ton Pickup 1- 3 drum pulled w/ 10,000ft of hand line
- 600 Texoma Hwy digger 1- 1 drum pulled w/ 24,000 ft of Rope line
- 500 Texoma Hwy digger 1- Truck w Trailer with 2- Reel stands used for shield wire
- Series 1800 40 Ton rubber tire crane (w/ basket) Truck with 2 wire stands on flatbed
- Series 1300 30 Ton rubber tire cat loader w/ 1.5 cu yd bucket 2- Crane with baskets
- National crane Truck w/ auger 1- 10 cu yds Dump Truck 1- Series 800 National crane w basket
- Air compressor w/ 4 Temp mounted on Flat bed Truck
- Air compressor w/ 2 Temp 2- 5 cu yd Rock Trucks

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

- overcast wind 5 to 15 mph Temp 92° to 40° 1-30-12
- overcast to 40% cloudy wind 5 to 15 mph Temp 30° to 40° 1-31-12
- clear light clouds wind 5 to 15 mph Temp 16° to 38° 2-1-12

DAILY RECORD OF CONTRACTORS WORK

1-30-12 to 2-1-12

STAND NO.	DIGGING-F.T.		POLES SET	STRUCTURE <small>ground</small> FRAMED	ANCHORS INSTALLED	AERIAL MARKER	FENCE GATES
	EARTH	ROCK					
91	20.0'		2-80cl-2	T-230-A	1-30-12		
80	30.0'	15 cu. yds.	3-80cl-1	T-230-G	1-30-12		
Need's culverts for poles holes installed 42" x 10' culverts in all three holes.							
73	39.8'		3-90cl-2	T-230-F	2-1-12		
73	E-Poles set to 11.0' depth			79.4' out of ground			
	C-Poles set to 14.6' Depth			75.6' out of ground			
	W-Poles set to 14.2' Depth			75.10' out of ground			
92				T-230-LP	5-Plate anchors	1'x24"x10'	

PROGRESS OF CONDUCTOR STRINGING, SAGGING, CLIPPING

can get the cutspans
 The 46kV line under build at 12:00pm.
 Started moving center phase to the left of 2 on the under build of 50 when pulling back line and conductor wire using ropes on wooden built center phase. this will be done for the first 18 miles. No under build on the last 12 miles of the line 230kV.
 Start installing span wire on all dallas that a hung already on 230kV structures. Pulled hard wire in span sta 240 to 228-229.
 2-1-12 Palled in 9.54, ^{All three phases of} rail conductor wire from P.E. structure 240 to spans between 228-229.
 2-1-12 Sagged conductor and shield wires, clipped one structure 239

GENERAL REMARKS (Include RW, Material, Inspection Decisions)

6 men set "H" structures and 2 men dig the holes for the "H" structures 91
 5 men worked on ground frame 3-Pole structure for 80, already hole for pole which we need to have culverts installed do to mud/water holes. 42" x 10' culverts
 1-31-12 4 men set 3-80cl poles for structure 80 used crossed cable for back fill
 2-1-12 4 men ground framed and set 3-Poles structure for 73
 2 men installed 5-Plate anchors at structure no 92 1'x24"x10' 1-30-12 and 1-31-12.

TRANSMISSION LINE CONSTRUCTION

RECORD OF CONTRACTORS TIME & EQUIPMENT

PROJECT Merricourt Wind Farm to El Dorado REPORTED BY Kenneth H. Williams
 Feb. 230KV Project

DATE Thursday 2nd 2012
Friday 3rd 2012
Saturday 4th 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			34
FOREMAN	2								2			68
FOREMAN	1								1			34
LINEMEN	1								1			34
LINEMEN <i>Appr.</i>	3								3			102
LINEMEN <i>Appr.</i>	3								3			102
LINEMEN												
EQUIP. OPERATORS	1							1	<i>11+10+10=31</i>			31
EQUIP. OPERATORS	3							3				102
EQUIP. OPERATORS												
GROUND MEN	1							1	<i>11+10+10=31</i>			31
GROUND MEN	1							1				34
GROUND MEN	2							2				68
GROUND MEN												
TOTAL MEN	19							2	17			640

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

Crowe cranes 50 ton _____

John Deere skidder cranes 500 _____

Pole truck and trailer _____

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

Overcast Fog wind 5 to 10 mph Temp 20° to 24° 2-2-12 11 HRS

Fog all day wind 5 to 10 mph Temp 18° to 25° 2-3-12 12 HRS

Fog wind 5 to 10 mph Temp 20° to 29° 2-4-12 10 HRS

