

Hamre, John G.

From: -Info-Public Service Commission
Sent: Tuesday, October 25, 2011 10:27 AM
To: Hamre, John G.
Subject: FW: TL151 Week 6 Report
Attachments: TL151 - Week6 - 10-25-11.pdf

From: Crary, Tom [<mailto:tom.crary@mdu.com>]
Sent: Tuesday, October 25, 2011 10:01 AM
To: -Info-Public Service Commission
Cc: Lein, Jerry R.; Ford, Henry; Aberle, Tamie
Subject: TL151 Week 6 Report

I have attached the weekly report for week 6 of the Merricourt to Ellendale, 230kV, TL151 – NDPSC Case No. PU-10-164

TOM CRARY
Sr Staff Engineer
Montana-Dakota Utilities Co.
400 N 4th Street
Bismarck, ND 58501
701-222-7685

106 **PU-10-164** Filed: 10/25/2011 Pages: 13
Merricourt to Ellendale TL151 progress report, week ending 10-25-11

**WEEKLY REPORT
OF
CONSTRUCTION PROGRESS**

PROJECT:

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

DATE: 10-22-11

WO: J172396
J186381
JXXXXXX

WEEK OF CONSTRUCTION: ¹⁵~~10-2-11~~ to 10-22-11 # 6

| OPERATION | | * PERCENT COMPLETION | | | | | | | | | |
|------------------|---|----------------------|-----|-----|-----|-----|-----|-----|-----|-----|---------------------|
| | | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |
| NEW CONSTRUCTION | STRUCTURE LOCATION STAKED | --- | --- | --- | --- | --- | --- | --- | --- | --- | |
| | MATERIAL HAULED IN FIELD | --- | --- | --- | --- | +++ | +++ | +++ | ++ | | 51% |
| | STRUCTURE ASSEMBLING | ---++ | | | | | | | | | |
| | STRUCTURE ERECTING | ---++ | | | | | | | | | |
| | GUY & ANCHOR INSTALLATION | --- | --- | +++ | +++ | | | | | | 30% |
| | WIRE STRINGING | | | | | | | | | | |
| | RIGHT OF WAY CLEARING <i>Trees only</i> | | | | | | | | | | |
| RETIREMENT | <i>DLTA</i> POLE LINE REMOVAL <i>Structure only</i> <i>242 to 95</i> | | | | | | | | | | 100% |
| | <i>17.2223 miles</i> CONDUCTOR REMOVAL | | | | | | | | | | 100% |
| | | | | | | | | | | | Same as last Report |
| | MATERIAL RETURNS (New & Used) | | | | | | | | | | 94% |

* Percent completed to period of report -----
Percent completed during period of report *****

REMARKS:

CONTRACTOR:
BRINK CONSTRUCTORS, INC

BY: A.H.

MONTANA-DAKOTA UTILITIES CO.

BY: Kenneth W. Field

INSPECTOR'S WEEKLY REPORT

Line: Merricourt Wind Farm to Ellen Dale 230kW Project

Period: Oct. 15, 2011, Oct. 17, 2011 to Oct. 22, 2011 Contractor: BRINK

Inspector: Kenneth W. Sisk General Foreman: Harmon Hatley

Weather Conditions: clear to Pth cloudy wind 5 to 25 mph. Temp 26° to 64° Workmen Total: 14

Progress:

1. Roads Built _____
2. Gates Built _____
3. Material Hauled is 100% from structure 243 to structure 95
4. Structures Framed 208, 210, 215, 177, 174, 166, 150, 149, 163
5. Digging 208, 210, 215, 177, 174, 166, 150, 149, 163 ^{*(Rock hole)} (124, 123, 115, 108)
6. Structures Set 208, 210, 215, 177, 174, 166, 150, 149
7. Sock Line Pulled _____
8. Wire Strung _____
9. Wire Sagged & Clipped _____
10. Clean-up clear cut all trees between structure 150 to 154 ON James & Sheila Brauer Land.

Comments:

crew worked on hauling poles, materials, digging pole hole backfill with crushed rock at all structures listed above except structure 163 which was set 2 week earlier. also ground & aerial framed some structures. started aerial framing structure 163 & 5 pole structures. structure 124, 123, 115, 108 will have to use a rock drill to dig these holes.

On Saturday met with land owners Tim Martin and Ryan Brokaw. If we could installed gates on their land to reach structure location. Both looked at Gate entrance on their land and said it was ok. Ryan Brokaw had a question on structure 94 location and I said I would email him and let him know on Tuesday next week.

TRANSMISSION LINE CONSTRUCTION

RECORD OF CONTRACTORS TIME & EQUIPMENT

PROJECT Merricourt wind farm to Elkhart REPORTED BY Kenneth W. Fisher
230 KVA Project

DATE Saturday 15th 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 | TOTAL HOURS |
|-------------------------------|-----|-------------------|-------------------------|--------------|----------------------------|-------------------|----------------------------|---------------------|-----------------------------------|---------------|----------------------------------|-------------|
| FOREMAN <i>Superintendent</i> | 1 | | | | | | | | | | | 11 |
| FOREMAN | | | | | | | | | | | | |
| FOREMAN | 2 | | 1 | | | | 1 | | | | | 22 |
| LINEMEN | | | | | | | | | | | | |
| LINEMEN | 3 | | 1 | | | | 2 | | | | | 33 |
| LINEMEN | | | | | | | | | | | | |
| LINEMEN <i>Appr.</i> | 3 | | 3 | | | | | | | | | 33 |
| LINEMEN <i>Appr.</i> | 2 | | | | | | 2 | | | | | 22 |
| EQUIP. OPERATORS | 1 | | 1 | | | | | | | | | 11 |
| EQUIP. OPERATORS | | | | | | | | | | | | |
| EQUIP. OPERATORS | | | | | | | | | | | | |
| GROUNDMEN | 2 | | 1 | | | | 1 | | | | | 22 |
| GROUNDMEN | | | | | | | | | | | | |
| GROUNDMEN | | | | | | | | | | | | |
| GROUNDMEN | | | | | | | | | | | | |
| TOTAL MEN | 14 | | | | | | | | | | | 154 |

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

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

overcast wind 5 to 20mph Temp 34° to 56°

TRANSMISSION LINE CONSTRUCTION

RECORD OF CONTRACTORS TIME & EQUIPMENT

PROJECT Merricourt Wind Farm to Shackle REPORTED BY James W. Fisher

DATE Monday 19, 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 | TOTAL HOURS |
|-------------------------------|-----|-------------------|-------------------------|--------------|----------------------------|-------------------|----------------------------|---------------------|-----------------------------------|---------------|----------------------------------|-------------|
| FOREMAN <u>Superintendent</u> | 1 | | | | | | | | | | | |
| FOREMAN | | | | | | | | | | | | |
| FOREMAN | 2 | | | | | | | | | | | |
| LINEMEN | | | | | | | | | | | | |
| LINEMEN | 3 | | | | | | | | | | | |
| LINEMEN | | | | | | | | | | | | |
| LINEMEN <u>Appr</u> | 3 | | | | | | | | | | | |
| LINEMEN <u>Appr</u> | 2 | | | | | | | | | | | |
| EQUIP. OPERATORS | 1 | | | | | | | | | | | |
| EQUIP. OPERATORS | | | | | | | | | | | | |
| EQUIP. OPERATORS | | | | | | | | | | | | |
| GROUND MEN | 2 | | | | | | | | | | | |
| GROUND MEN | | | | | | | | | | | | |
| GROUND MEN | | | | | | | | | | | | |
| GROUND MEN | | | | | | | | | | | | |
| TOTAL MEN | 14 | | | | | | | | | | | |

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

| | | |
|---|-------------------------------------|--|
| <u>1 3/4 Ton Pickup</u> | <u>Grave 30 Trench</u> | |
| <u>1 1 Ton Pickup</u> | <u>Tractor w/low boy Trailer</u> | |
| <u>1-2 Ton Pickup</u> | <u>1-10yd dump Truck</u> | |
| <u>3- Tractors w Flatbed trailer</u> | <u>JD 410 J Rubber tire backhoe</u> | |
| <u>2-Pole Tractors</u> | <u>Case Loader</u> | |
| <u>2-Highway diggers</u> | <u>air Compressor with 4 Temps</u> | |
| <u>1-D Cat</u> | <u>air compressor with 2 Temps</u> | |
| <u>Elliott Power Tractor cat Track 70 Ton crane</u> | | |
| <u>National 30 crane w Basket</u> | | |
| <u>John Deer spider w/300 national/crane</u> | | |

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

Cloudy - Cool Wind 5 to 15 mph Temp 28° to 41°

TRANSMISSION LINE CONSTRUCTION

RECORD OF CONTRACTORS TIME & EQUIPMENT

PROJECT Mountain Wind Farm to Cherokee REPORTED BY Kenneth W. Fisher

DATE Tuesday 18 2011
Wednesday 19 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 | TOTAL HOURS |
|---------------------------|-----------|-------------------|-------------------------|--------------|----------------------------|-------------------|----------------------------|---------------------|----------------------------------|---------------|----------------------------------|-------------|
| FOREMAN <i>Supervisor</i> | 1 | | | | | | | | | | | 11 |
| FOREMAN | | | | | | | 1 | | | | | |
| FOREMAN | 2 | | 1 | | | | | | | | | 22 |
| LINEMEN | | | | | | | | | | | | |
| LINEMEN | 3 | | 1 | | | | 2 | | | | | 33 |
| LINEMEN | | | | | | | | | | | | |
| LINEMEN <i>Appr.</i> | 3 | | 3 | | | | | | | | | 33 |
| LINEMEN <i>Appr.</i> | 2 | | | | | | 2 | | | | | 22 |
| EQUIP. OPERATORS | 1 | | 1 | | | | | | | | | 11 |
| EQUIP. OPERATORS | | | | | | | | | | | | |
| EQUIP. OPERATORS | | | | | | | | | | | | |
| GROUNDMEN | 2 | | 1 | | | | 1 | | | | | 22 |
| GROUNDMEN | | | | | | | | | | | | |
| GROUNDMEN | | | | | | | | | | | | |
| GROUNDMEN | | | | | | | | | | | | |
| TOTAL MEN | 14 | | | | | | | | | | | 154 |

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

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

Partly cloudy - wind 5 to 15 mph Temp 29° to 50°
Partly cloudy - wind 5 to 15 mph Temp 28° to 50°

TRANSMISSION LINE CONSTRUCTION

RECORD OF CONTRACTORS TIME & EQUIPMENT

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

DATE Thursday 29, 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 | TOTAL HOURS |
|---------------------------|-----------|-------------------|-------------------------|--------------|----------------------------|-------------------|----------------------------|---------------------|-----------------------------------|---------------|----------------------------------|-------------|
| FOREMAN <u>Supervisor</u> | 1 | | | | | | | | | | | 12 |
| FOREMAN | | | | | | | | | | | | |
| FOREMAN | 2 | | 1 | 2 | 2 | 2 | 1 | | | | | 24 |
| LINEMEN | | | | | | | | | | | | |
| LINEMEN | 3 | | 1 | 2 | 2 | 2 | 2 | | | | | 36 |
| LINEMEN | | | | | | | | | | | | |
| LINEMEN <u>Hooper</u> | 3 | | 3 | | | | | | | | | 36 |
| LINEMEN <u>Hooper</u> | 2 | | | 2 | 2 | 2 | 2 | | | | | 24 |
| EQUIP. OPERATORS | 1 | | 1 | | | | | | | | | 12 |
| EQUIP. OPERATORS | | | | | | | | | | | | |
| EQUIP. OPERATORS | | | | | | | | | | | | |
| GROUND MEN | 2 | | 1 | 2 | 2 | 2 | 1 | | | | | 24 |
| GROUND MEN | | | | | | | | | | | | |
| GROUND MEN | | | | | | | | | | | | |
| GROUND MEN | | | | | | | | | | | | |
| TOTAL MEN | 14 | | | | | | | | | | | 168 |

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

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

Clear wind 5 to 15 mph Temp 26° to 54°

TRANSMISSION LINE CONSTRUCTION

RECORD OF CONTRACTORS TIME & EQUIPMENT

PROJECT Merricourt Wind Farm to Elkhart REPORTED BY Thomas W. Lisher

DATE Friday 21 2011
Sat 22 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 | TOTAL HOURS |
|---------------------------|-----------|-------------------|-------------------------|--------------|----------------------------|-------------------|----------------------------|---------------------|-----------------------------------|---------------|----------------------------------|-------------|
| FOREMAN <u>Supervisor</u> | <u>1</u> | | | | | | | | | | | <u>24</u> |
| FOREMAN | | | | | | | | | | | | |
| FOREMAN | <u>2</u> | | <u>1-24</u> | | <u>2-8</u> | <u>2-1-5</u> | | | | | | <u>46</u> |
| LINEMEN | | | | | | | | | | | | |
| LINEMEN | <u>3</u> | | <u>1-24</u> | | <u>2-16</u> | <u>2-38</u> | | | | | | <u>70</u> |
| LINEMEN | | | | | | | | | | | | |
| LINEMEN <u>Appr.</u> | <u>3</u> | | <u>3-93</u> | | | | | | | | | <u>72</u> |
| LINEMEN <u>Appr.</u> | <u>2</u> | | | | <u>2-16</u> | <u>2-30</u> | | | | | | <u>46</u> |
| EQUIP. OPERATORS | <u>1</u> | | <u>1-12</u> | <u>12</u> | | | | | | | | <u>24</u> |
| EQUIP. OPERATORS | | | | | | | | | | | | |
| EQUIP. OPERATORS | | | | | | | | | | | | |
| GROUNDMEN | <u>2</u> | | <u>1-12</u> | <u>12</u> | <u>2-8</u> | <u>2-1-6</u> | | | | | | <u>47</u> |
| GROUNDMEN | | | | | | | | | | | | |
| GROUNDMEN | | | | | | | | | | | | |
| GROUNDMEN | | | | | | | | | | | | |
| TOTAL MEN | <u>14</u> | | | | | | | | | | | <u>379</u> |

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

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

clear windy 5 to 20 mph Temp 29° to 61° Friday
clear to Bly Cloudy Windy 5 to 20 mph Temp 33° to 65° Saturday

DAILY RECORD OF CONTRACTORS WORK

10-21-11 & 10-22-11

| STAND NO. | DIGGING-FT. | | POLES SET | STRUCTURE FRAMED | ANCHORS INSTALLED | AERIAL MARKER | FENCE GATES |
|-----------------------------|-------------|-----------|------------|--|---------------------|----------------|-------------|
| | EARTH | ROCK | | | | | |
| 10-21-11 150 | | 600 yds | 2-95 cl-1 | T-230A DBL T-46-HS | 10-21-11 | | |
| 10-21-11 10-22-11 149 | | 150 yds | 2-95 cl-1 | T-230A DBL T-46-HS | 10-21-11 & 10-22-11 | | |
| 0-22-11 163 | | | | F-230-H | Started | aerial framing | |
| 124 | | Rock hole | 2-105 cl-1 | } Well have a Rock drill to dig these holes on Monday 24 th 2011. | | | |
| 123 | | Rock hole | 2-110 cl-1 | | | | |
| 115 | | Rock hole | 2-105 cl-1 | | | | |
| 108 | | Rock hole | 2-105 cl-1 | | | | |
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PROGRESS OF CONDUCTOR STRINGING, SAGGING, CLIPPING

I went with Ryan Brokaw to look over where the contractor can go through his fence, marked where we can open up wire fence and install gates. also looked over structure 84. Ryan said the structure was to go on top of the plat. he feeds cows around the plat. When its staked now the anchor location are in his way to feed the cattle in the winter time. called wynn t. Bauer P.E of H.D.R. to let him know there a problem at 84 a 3-pole angle. Also talk to Tim Martin about going through his fence just off Hwy 11 on the right side South. He said it was ok, and there will be gate installed there also for access to the line (str. 92 towards str. 89 3-pole angle)

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

crew hauling poles and material str. 182 to 1178. All material and poles have been hauled to their location from structure 243 to structure 95
 crew hauled cross arms x-braces, knee braces & tension braces for Ellendale material yard to Brokaw material yard.
 crew tried to dig pole holes at structures 124, 123, 115 & 108 very hard rock.