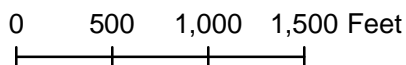


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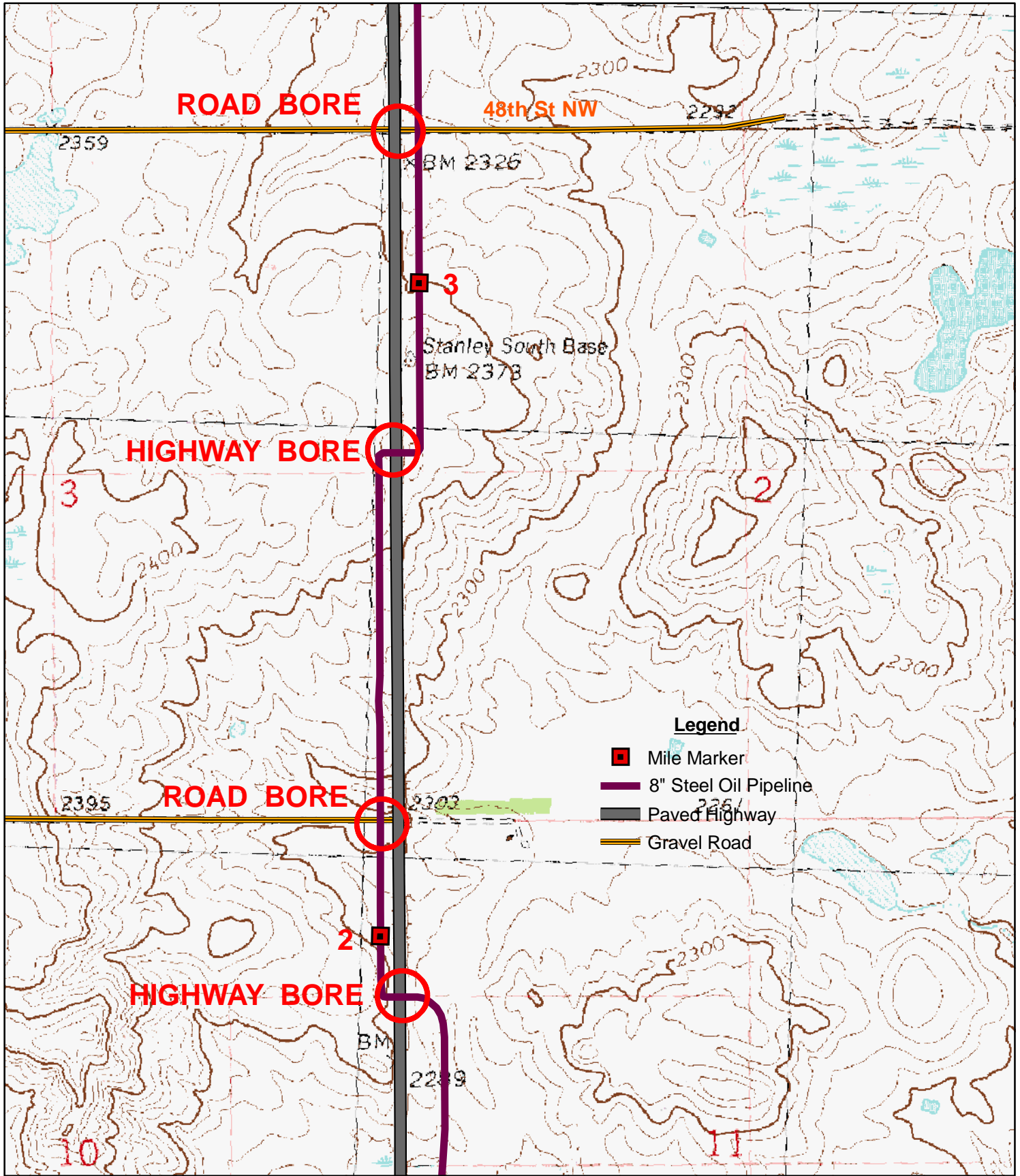
REV. 6/26/09



**8" OIL DISCHARGE LINE
South Robinson Plant to Stanley, ND**



Whiting Petroleum Corporation

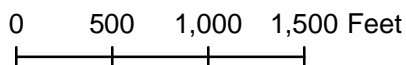


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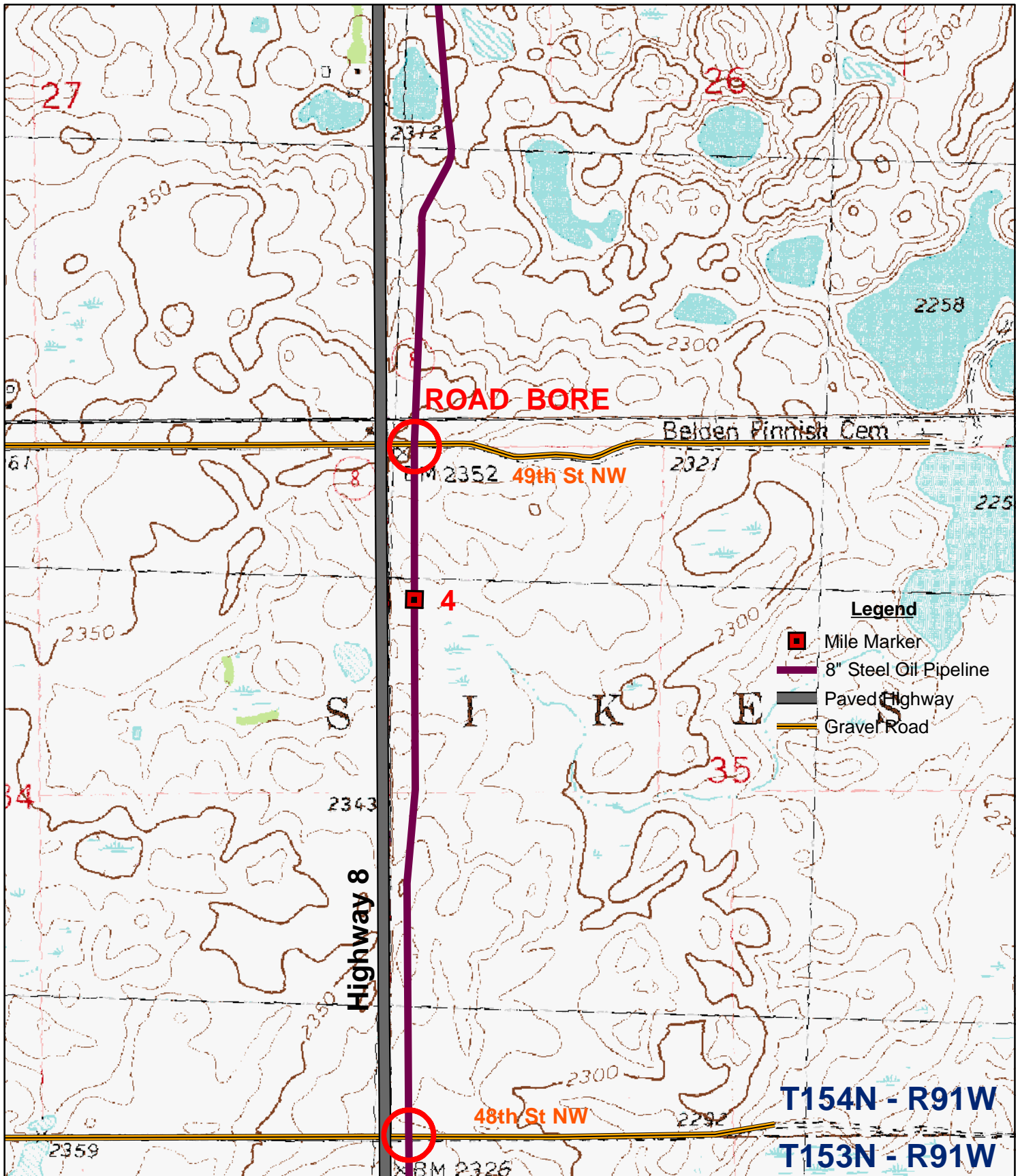
REV. 6/26/09



**8" OIL DISCHARGE LINE
South Robinson Plant to Stanley, ND**



Whiting Petroleum Corporation

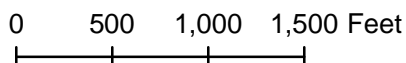


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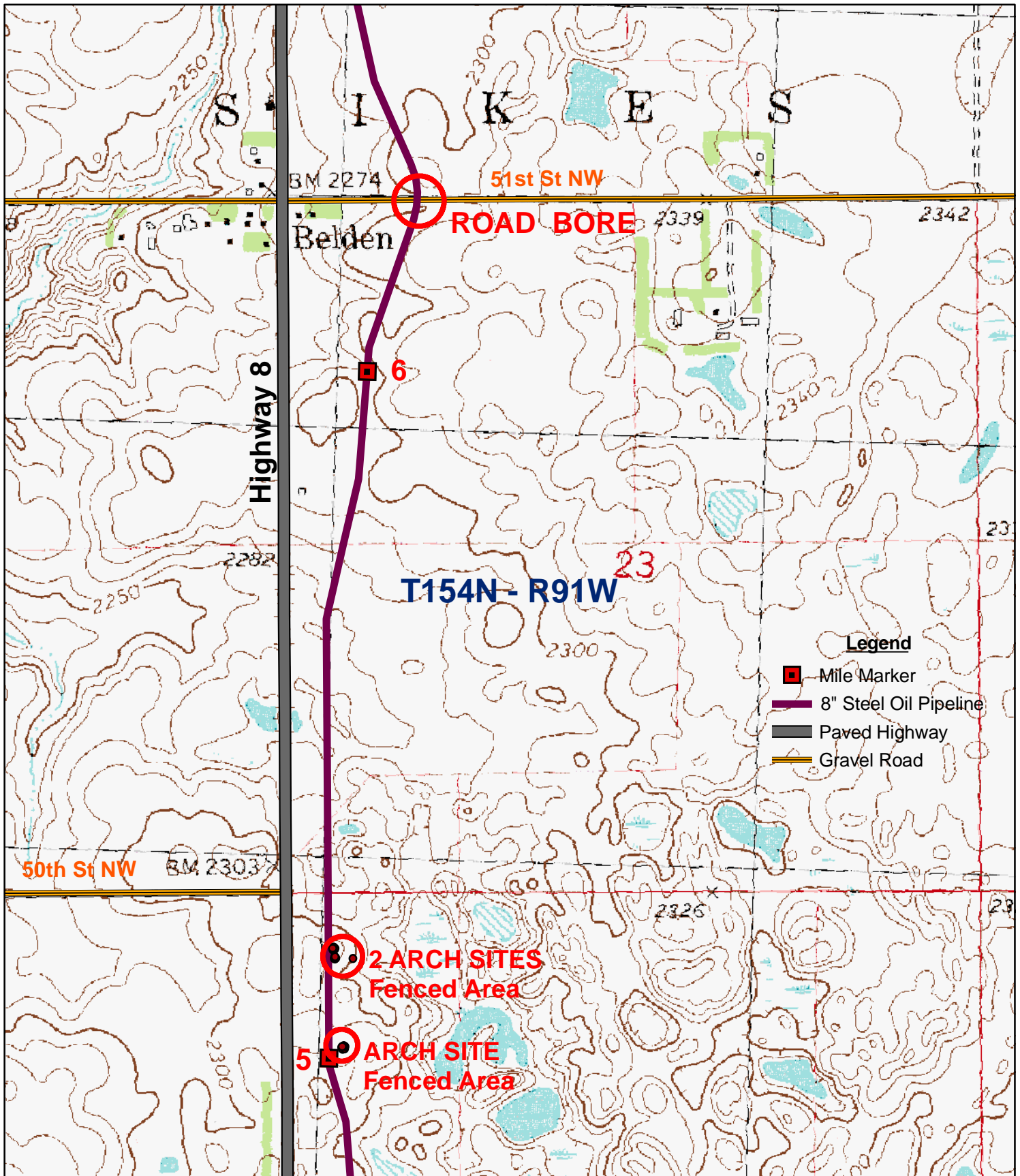
REV. 6/26/09



**8" OIL DISCHARGE LINE
South Robinson Plant to Stanley, ND**



Whiting Petroleum Corporation



Legend

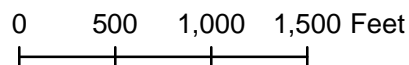
- Mile Marker
- 8" Steel Oil Pipeline
- Paved Highway
- Gravel Road

Topo Sheet 4

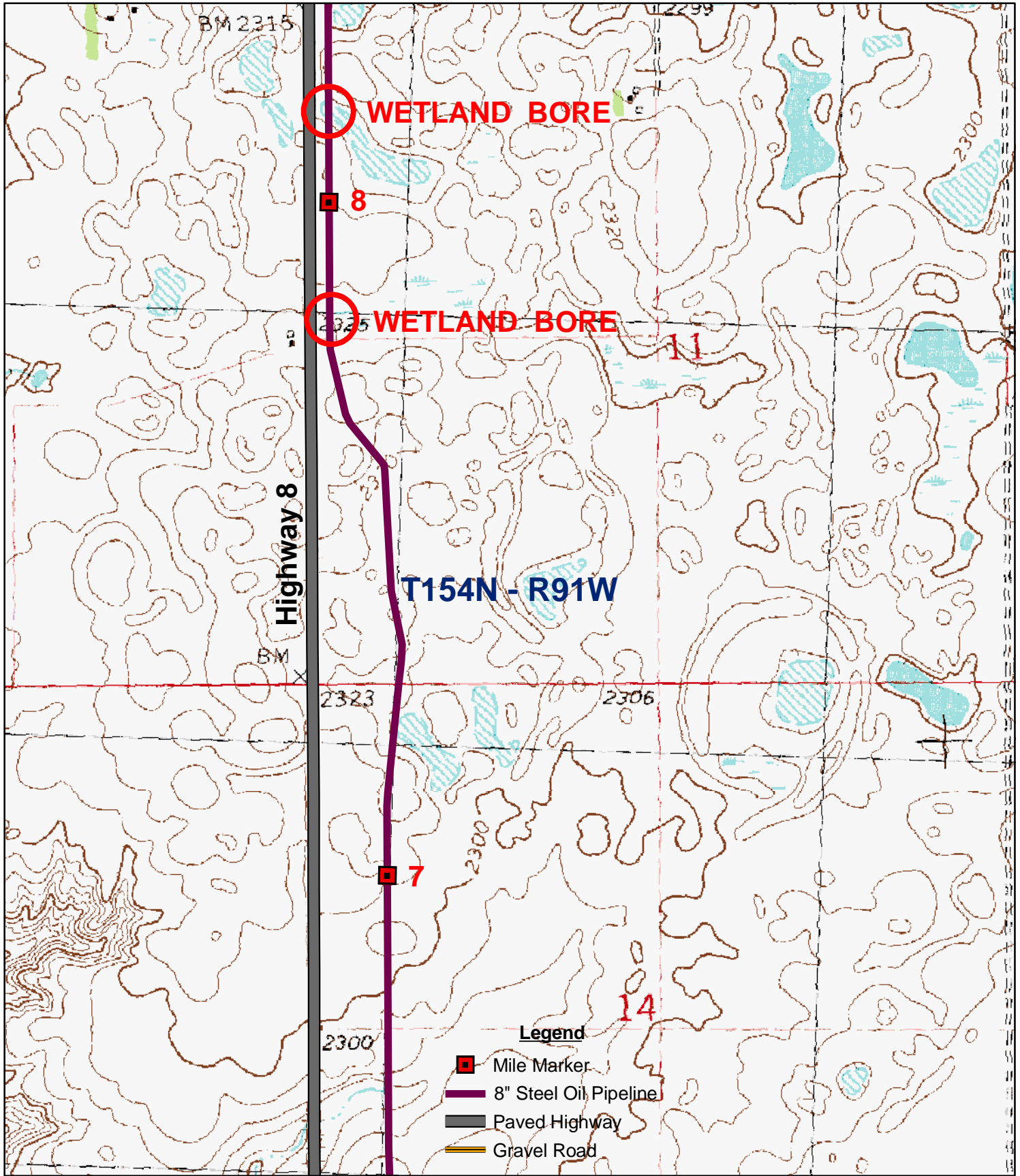
REV. 6/26/09



**8" OIL DISCHARGE LINE
South Robinson Plant to Stanley, ND**



Whiting Petroleum Corporation

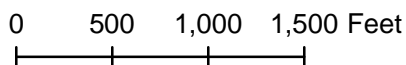


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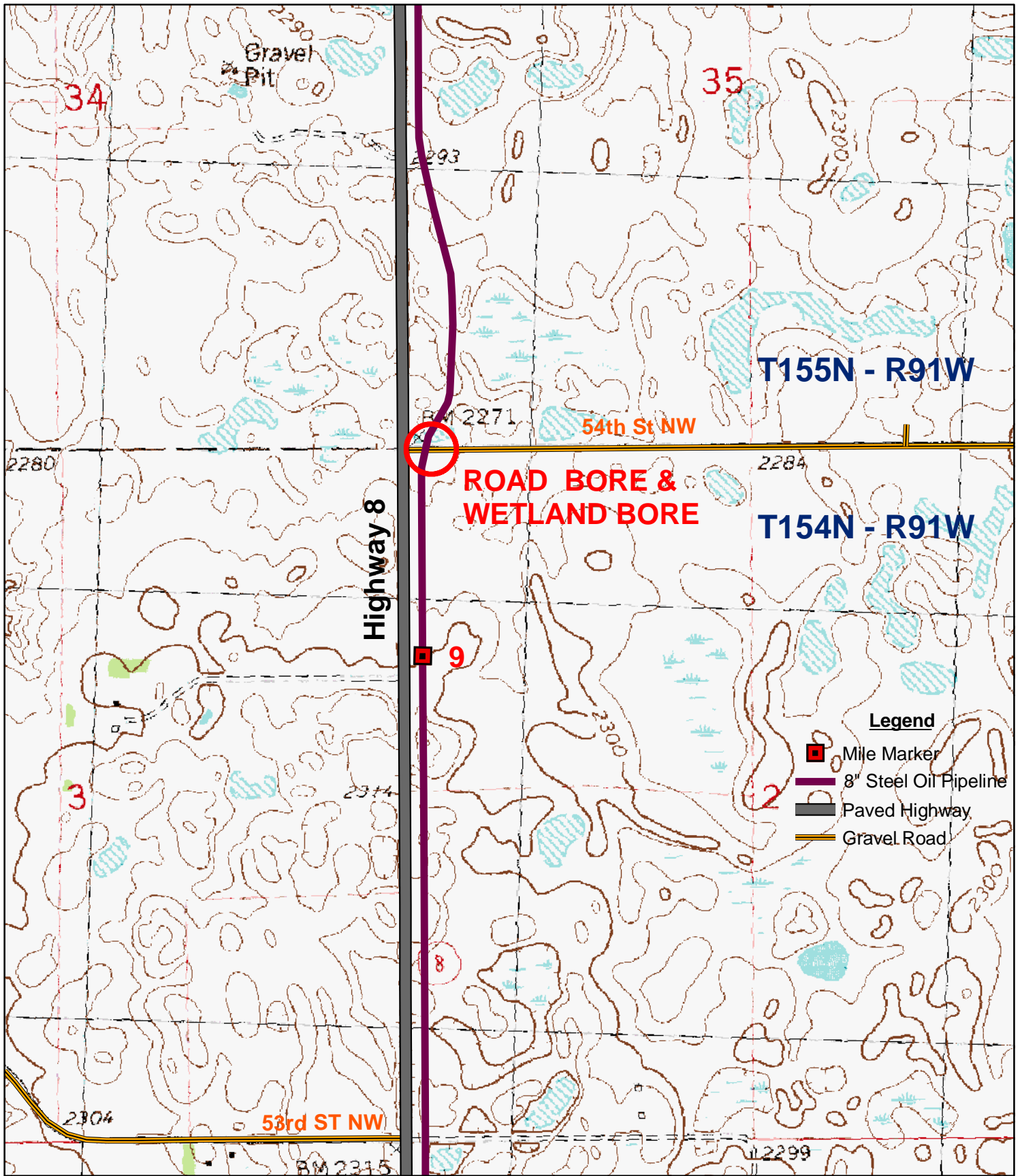
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**8" OIL DISCHARGE LINE
South Robinson Plant to Stanley, ND**



Whiting Petroleum Corporation

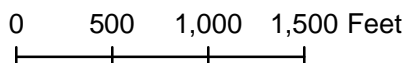


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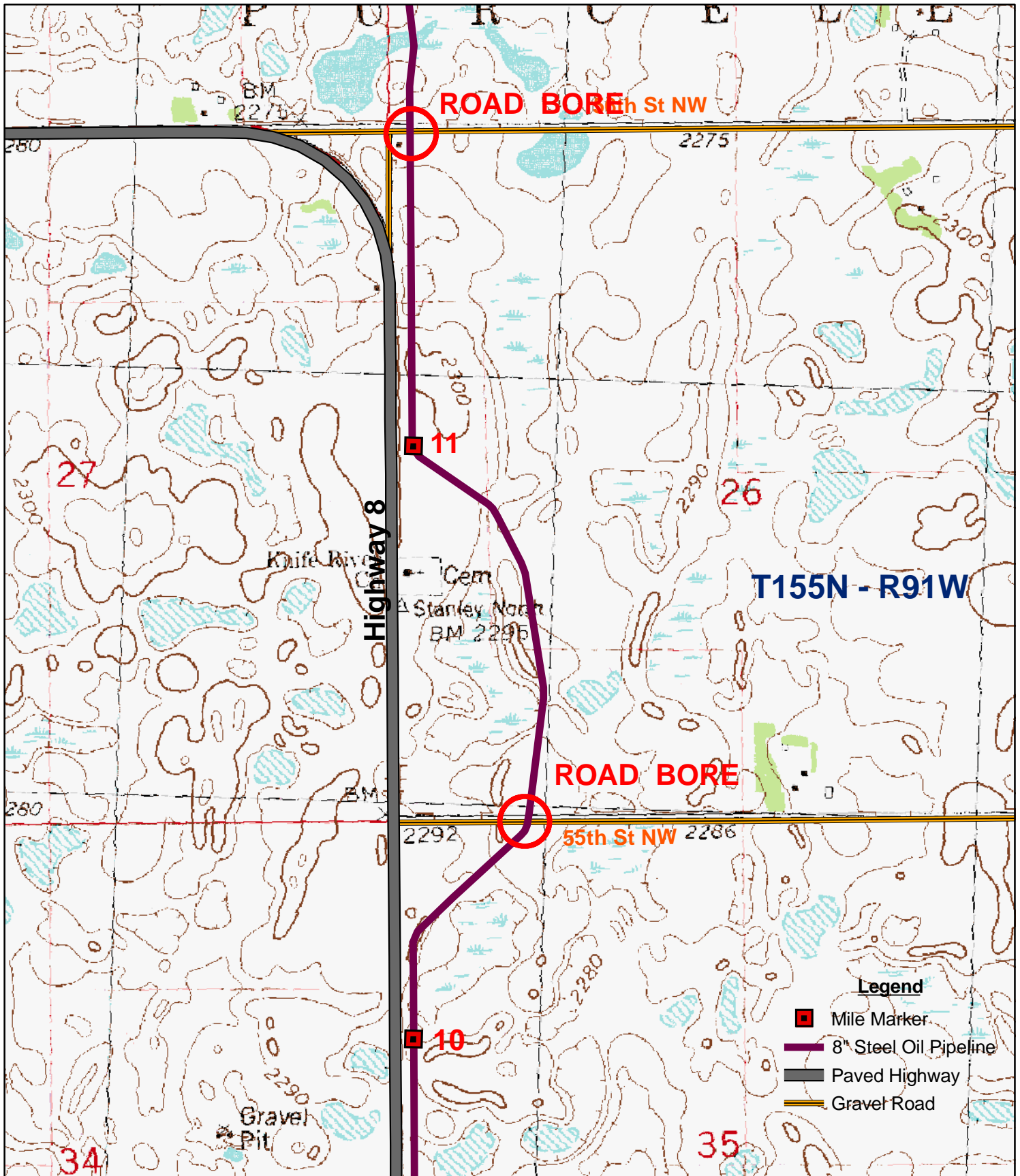
REV. 6/26/09



**8" OIL DISCHARGE LINE
South Robinson Plant to Stanley, ND**



Whiting Petroleum Corporation

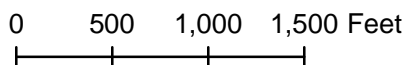


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REV. 6/26/09



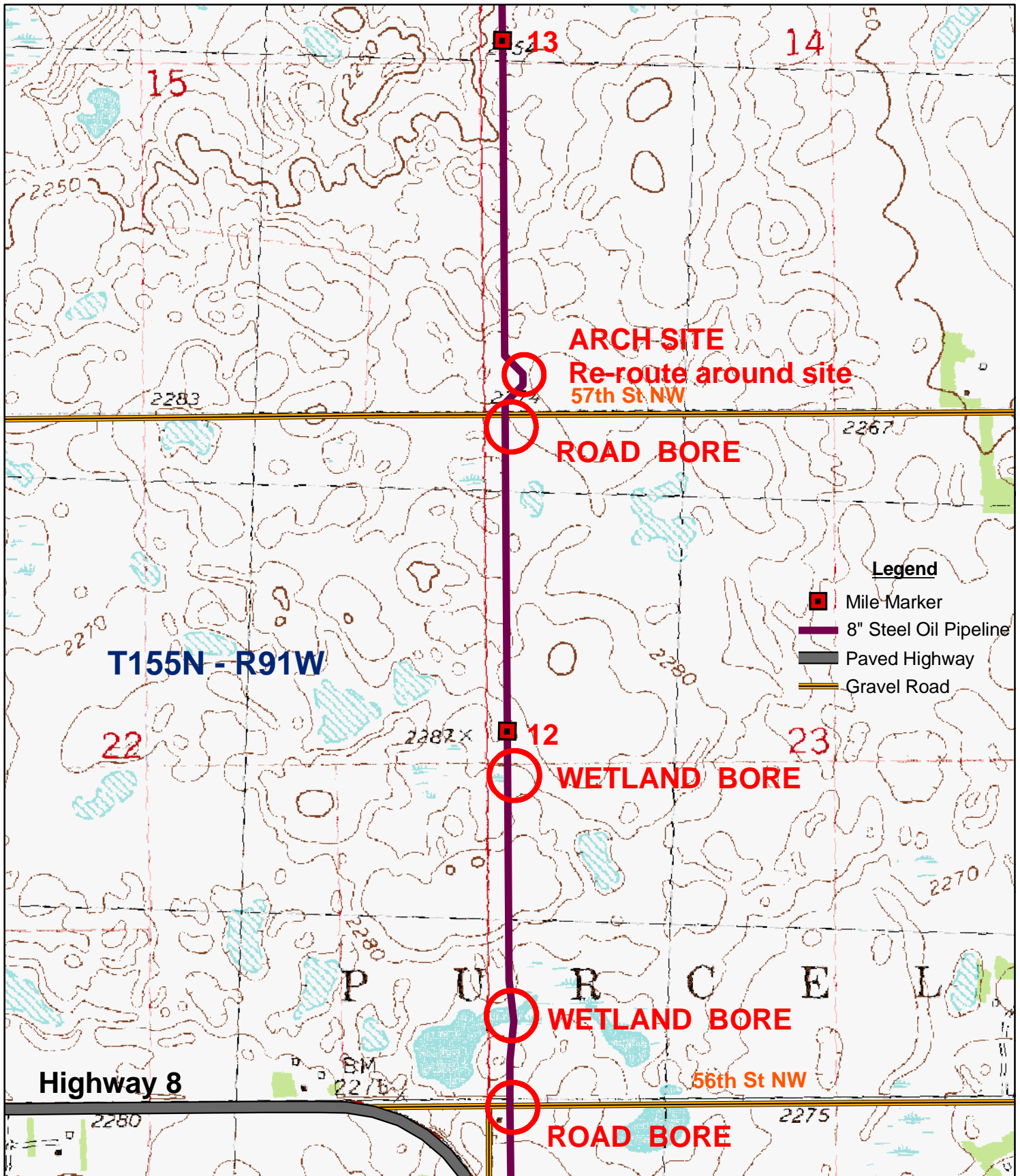
**8" OIL DISCHARGE LINE
South Robinson Plant to Stanley, ND**



Legend

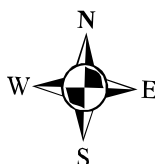
- Mile Marker
- 8" Steel Oil Pipeline
- Paved Highway
- Gravel Road



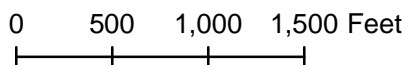


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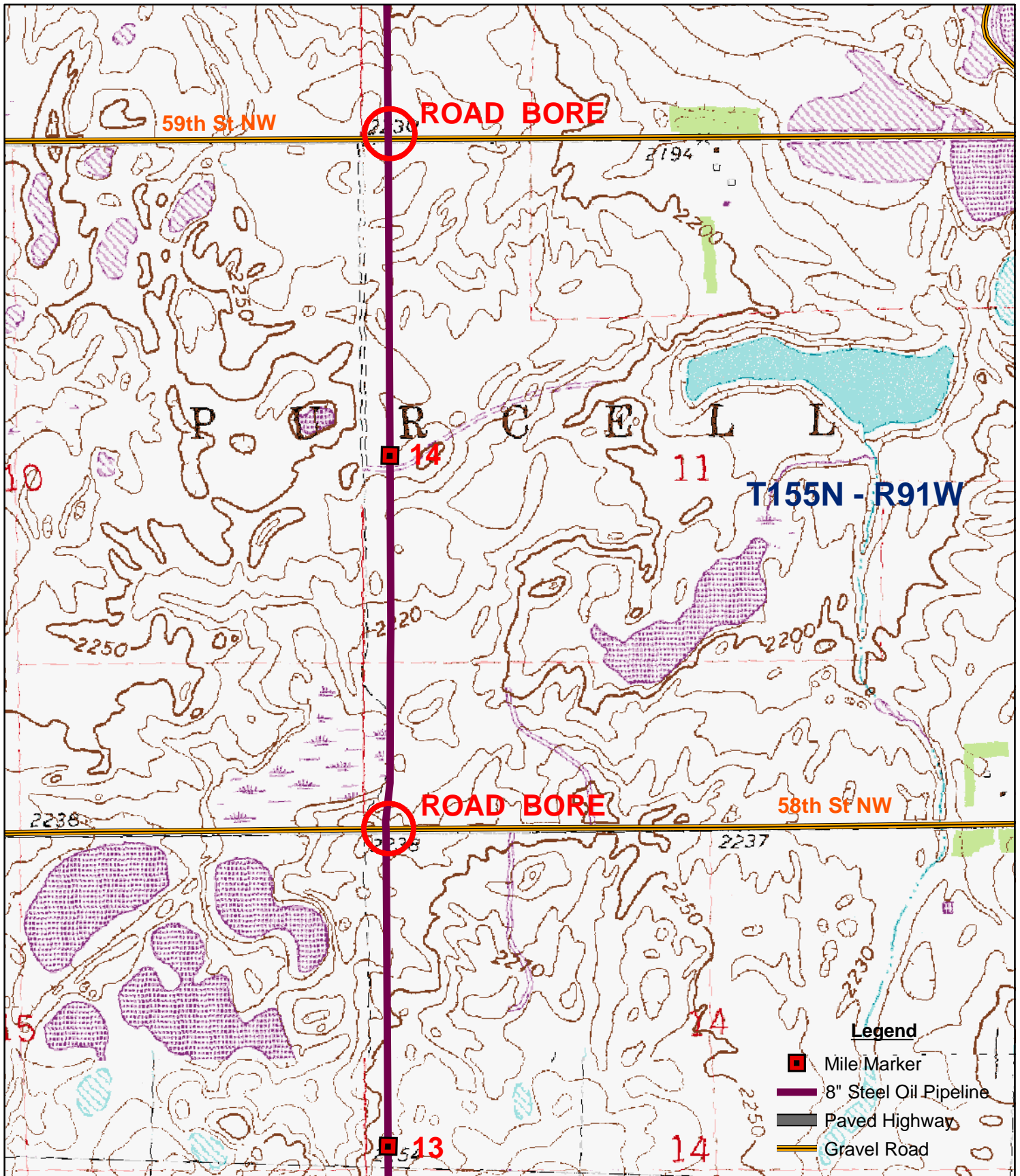
REV. 6/26/09



8" OIL DISCHARGE LINE
South Robinson Plant to Stanley, ND



Whiting Petroleum Corporation

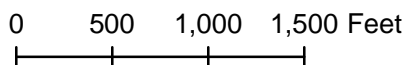


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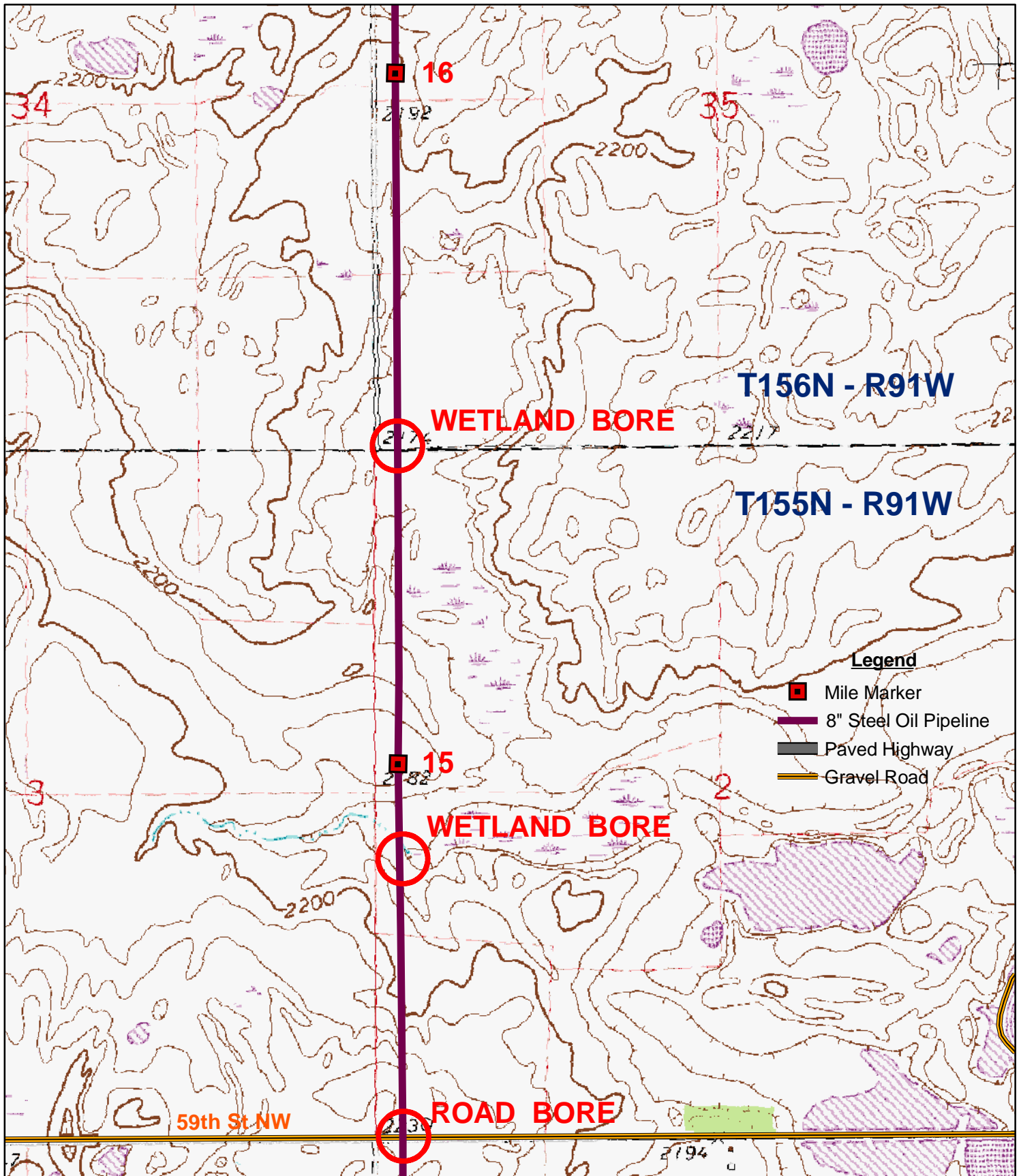
REV. 6/26/09



8" OIL DISCHARGE LINE
South Robinson Plant to Stanley, ND



Whiting Petroleum Corporation

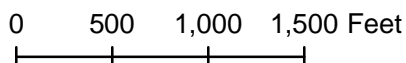


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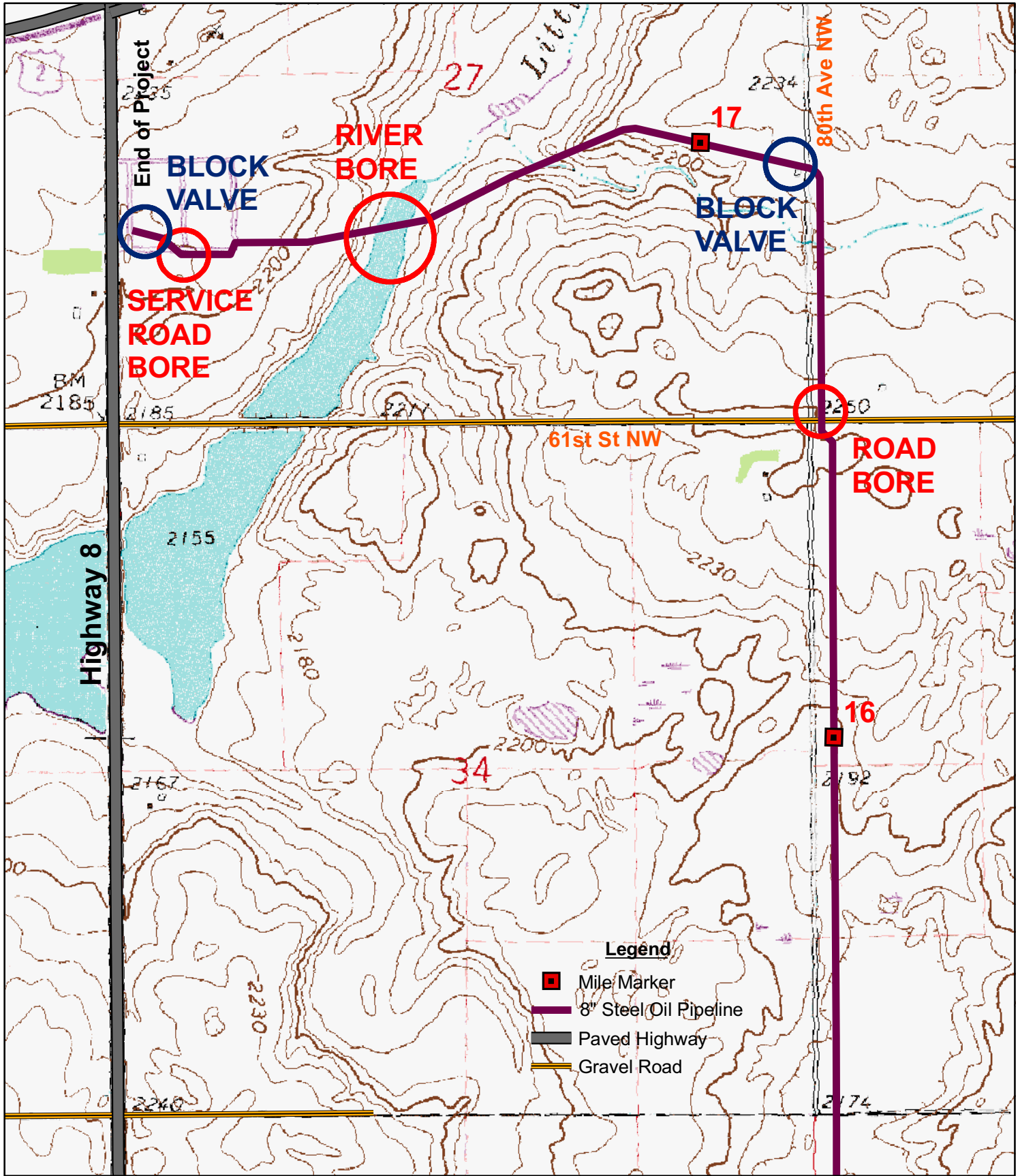
REV. 6/26/09



**8" OIL DISCHARGE LINE
South Robinson Plant to Stanley, ND**

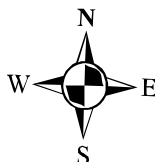


Whiting Petroleum Corporation

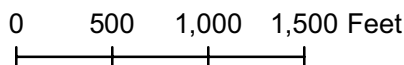


Topo Sheet 11

REV. 6/29/09



**8" OIL DISCHARGE LINE
South Robinson Plant to Stanley, ND**



Whiting Petroleum Corporation

Angie Durand

From: Bill J. Regan
Sent: Tuesday, June 30, 2009 8:38 AM
To: Angie Durand
Subject: FW: request for SHPO review [NDSHPO Ref.: 08-1277c]

From: Picha, Paul R. [mailto:ppicha@nd.gov]
Sent: Monday, June 29, 2009 4:43 PM
To: Peg J. Boden
Cc: Bill J. Regan
Subject: RE: request for SHPO review [NDSHPO Ref.: 08-1277c]

NDSHPO Ref.: 08-1277c

Dear Peg:

Below is concurrence correspondence on the final routing. Hard copies on letterhead will be mailed to those indicated.

Sincerely,

Paul Picha

June 30, 2009

Peggy J. Boden Cultural Resources Specialist Mergent, Inc. 615 First Avenue NE, Suite 425 Minneapolis, MN 55413	Suzanne Canevello Metcalf Archaeological Consultants PO Box 2154 Bismarck, ND 58502-2154
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NDSHPO REF. : 08-1277c PSC Mergent/Whiting Robinson Lake Pipeline Identification Efforts and Buffer Area Avoidance Efforts: Final Routing–North End Stanley Station

Dear Peggy and Suzanne:

We have received and reviewed project correspondence and documentation for **08-1277c: PSC Mergent/Whiting Robinson Lake Pipeline Identification and Buffer Area Avoidance Efforts: Final Routing–North End Stanley Station** find it acceptable. We concur with the scope and level of identification efforts for the project. The management recommendations regarding site avoidance strategies for unevaluated-undetermined sites are acceptable as specified in the documentation based on the field work carried out on May 12-13, 2009. We concur with *“No Historic Properties Affected”* and *“No Significant Sites Affected”* determinations provided the project is of the nature stated and it takes place in the location described and plotted in the North End Stanley Station final routing project documentation.

Thank you for the opportunity to review the project. If you have questions please contact either Paul Picha at (701) 328-3574 or Susan Quinnell at squinnell@nd.gov or (701) 328-3576.

Sincerely,

Paul R. Picha
[signed for]

Merlan E. Paaverud, Jr.
State Historic Preservation Officer (North Dakota)
and
Director, State Historical Society of North Dakota

c: Patrick Fahn, PSC

From: Peg J. Boden [mailto:PBoden@Merjent.com]
Sent: Monday, June 29, 2009 2:30 PM
To: Picha, Paul R.
Cc: Bill J. Regan
Subject: request for SHPO review

Dear Paul,

Attached is a letter explaining our final activities for the Whiting Petroleum Robinson Lake Pipeline Construction Project (NDSHPO 08-1277), which is the subject of a ND PSC application. We will also mail you a hard copy. When you respond to the letter, you might consider copying the PSC, specifically Patrick Fahn, North Dakota Public Service Commission, 600 E Boulevard, Bismarck ND 58505-0480. If I can provide any additional information, please contact me.

Thank you,
Peg Boden



Peg Boden

615 First Avenue NE	612.746.3660 main
Suite 425	612.746.3663 direct
Minneapolis, MN 55413	612.746.3679 fax
www.merjent.com	pboden@merjent.com

Angie Durand

From: Bill J. Regan
Sent: Monday, June 29, 2009 3:37 PM
To: Angie Durand
Subject: FW: request for SHPO review
Attachments: Robinson Lake final review letter.pdf

From: Peg J. Boden
Sent: Monday, June 29, 2009 2:30 PM
To: 'Paul Picha (ppicha@state.nd.us)'
Cc: Bill J. Regan
Subject: request for SHPO review

Dear Paul,

Attached is a letter explaining our final activities for the Whiting Petroleum Robinson Lake Pipeline Construction Project (NDSHPO 08-1277), which is the subject of a ND PSC application. We will also mail you a hard copy. When you respond to the letter, you might consider copying the PSC, specifically Patrick Fahn, North Dakota Public Service Commission, 600 E Boulevard, Bismarck ND 58505-0480. If I can provide any additional information, please contact me.

Thank you,
Peg Boden



Peg Boden

615 First Avenue NE 612.746.3660 main
Suite 425 612.746.3663 direct
Minneapolis, MN 55413 612.746.3679 fax
www.merjent.com pboden@merjent.com



Mr. Paul Picha
State Historic Preservation Office
State Historical Society of North Dakota
612 East Boulevard Ave.
Bismarck, North Dakota 58505-0830

June 29, 2009

NDSHPO Ref: 08-1277 Merjent/Whiting Petroleum Robinson Lake Pipeline Construction

Dear Mr. Picha;

In December 2008, your office provided approval for the above referenced project as it was routed at that time. At this time, I am informing you of final routing of the pipeline and the start of construction. To remind you of the project and the archaeological findings, Whiting Petroleum (Whiting) is building an 18-mile, 8-inch diameter oil pipeline parallel to an already constructed natural gas pipeline just south of Stanley in Mountrail County, North Dakota. Merjent is assisting Whiting to complete their PSC application and hired Metcalf Archaeological Consultants (MAC) to conduct a Class III Inventory Survey of the pipeline corridor during the Fall of 2008. The survey recorded 17 archaeological sites and six isolated finds, and revisited two previously recorded sites (Stine and Barth [2008], Robinson Lake: A Class III Cultural Resource Inventory for a Proposed Pipeline Corridor in Mountrail County, North Dakota). In an Executive Summary dated November 4, 2008, I summarized the archaeological findings and described our plans to provide a minimum 50-foot buffer around three sites located in or very near the proposed pipeline corridor. Your office provided concurrence of our findings and recommendations in a letter dated December 15, 2008.

On May 12 and 13, 2009 Damita Heimstra of MAC traveled to the project area and worked with the Whiting construction survey crew to locate and mark any threatened archaeological sites so that the construction crew could avoid them with the minimum 50 foot buffer. At that time, Ms. Heimstra discovered that over the ensuing winter and spring months, an additional feature had been revealed at 32MN763, and an additional site was revealed near 32MN762. She submitted to your office an updated site form for the former and a new site form for the latter. Both sites were staked or flagged for avoidance with a minimum 50-foot buffer by Ms. Heimstra and later fenced off by the Whiting survey crew. The pipeline corridor was re-routed laterally in order to avoid 32MN764. Ms. Heimstra confirmed that the site would be avoided with a minimum 50-foot buffer.

The other change to the project is the minor adjustment of the pipeline route at its northern end in Section 27. The pipeline will cross the Knife River at this location and the construction engineers moved the pipeline corridor so that a more perpendicular boring was possible (see attached New Route Data map). This route change was marked during Ms. Heimstra's visit in May. A prominent prehistoric site containing stone circles, hearths, and depressions (32MN461) is located on a nearby knoll, but this is a minimum of 200 feet to the south, well outside of the threshold to require a further avoidance buffer.

To summarize our recent efforts, MAC visited the project area in May, when Damita Heimstra conducted a reconnaissance drive along the pipeline corridor with the Whiting survey crew, recorded new information she observed, and marked a buffer around sites that were close to the pipeline corridor as it is routed for construction at this time. With these protective measures, we recommend that no significant historic properties will be affected by the construction of the pipeline.

The Whiting Petroleum Company has filed its application with the North Dakota PSC and has fulfilled all of its obligations regarding environmental review. They are making final preparations to construct the pipeline and are anxious to receive concurrence with the cultural resources findings and recommendations. Anything that your office can do to expedite the SHPO review will be appreciated by all parties. Thank you for your assistance.

Sincerely,

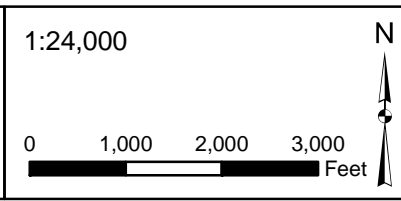
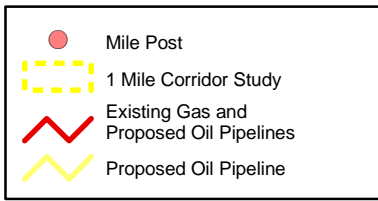
Peggy J. Boden
Cultural Resources Specialist

Attached: Robinson New Route Data Map

Map Document: C:\200-GIS\GIS\Clients\Whiting\Stanley Pipeline\Routing Criteria - Aerial.mxd
 6/26/2009 - 1:30:34 PM



This information is for environmental review purposes only.



Robinson Lake Pipeline Project
 Routing Criteria on
 Aerial Photo Base
 Map 6 of 6

Revised: 6/26/2009

UTILITY OCCUPANCY APPLICATION AND PERMIT

North Dakota Department of Transportation, Design Division
 SFN 7995 (Rev. 06-2008)

Document No. 71490 (FOR STATE USE ONLY) Permit No. 7-8-140.2803

APPLICANT INFORMATION

Owner of Facility <u>Whiting Oil and Gas</u>	City <u>Fairfield</u>	State <u>ND</u>	Zip Code <u>58267</u>
Mailing Address <u>2020 Highway 85 SW</u>			Telephone Number <u>701-575-8171</u>
Owner's Agent <u>Empire Oil Company</u>	City <u>Williston</u>	State <u>ND</u>	Zip Code <u>58802</u>
Telephone Number <u>701-774-2845</u>			
Owner's Contractor <u>ARP Enterprises</u>	City <u>Bowman</u>	State <u>ND</u>	Zip Code <u>701-523-4714</u>
Telephone Number <u>701-523-4714</u>			

LOCATION NO. 1 (FOR STATE USE ONLY) Begin Ref. Point 140,2803 End Ref. Point _____

Highway No. 8 Along or Across Lanes of traffic 2 4

Direction N S E W Begin 1,480 feet from reference marker #140

Direction N S E W End _____ feet from reference marker _____

N S E W from city of Stanley or 10 miles from junction highway 2

TYPE OF FACILITY (Complete appropriate spaces only.)

Description of Proposed Facility <u>8" Oil Discharge Pipeline (Steel) To Stanley Enbridge Site</u>		
Size of Facility <u>8" Steel</u>	Number of Cables	Length of Down Guys
Pipeline Pressure <u>1200 lbs. Max.</u>	Size of Casing	Length of Casing
Location of Pole(s)	Location of Appurtenances	Location - Others

TERMS AND CONDITIONS: Installation and maintenance of said facilities on highway right of way shall be subject to the North Dakota Department of Transportation's (NDDOT's) "A Policy for Accommodation of Utilities on State Highway Right of Way", current edition, and the following terms and conditions, attached hereto and made a part hereof.

- (A) Installation/maintenance of said facilities shall be done in a manner satisfactory to the NDDOT district engineer,
- (B) Owner shall notify the NDDOT district engineer forty-eight (48) hours prior to installing, maintaining, relocating, or removing said facilities. All disturbed areas shall be restored to their original condition in a manner satisfactory to the NDDOT district engineer.
- (C) The owner shall be required to wear an ANSI 107 Class II height visibility garment while within the highway right-of-way as per the requirements of 23 CFR 634.
- (D) The Risk Management Appendix, attached, is hereby incorporated and made a part of this agreement.
- (E) Owner shall repair or replace highway structures and appurtenances, and any existing facilities located on, over, or under highway right of way, which may be damaged as a result of the installation and maintenance of said facilities on highway right of way.
- (F) Owner shall promptly remove said facilities from highway right of way, or shall relocate or adjust said facilities, at its sole cost and expense when requested to do so by NDDOT.
- (G) NDDOT specifically reserves the right to revoke, or change the terms and conditions of, this Permit with or without cause and upon notice to the Owner.
- (H) The installation shall be completed on or before 9-1-, 20 09

6-1-2009
DATE

Steve Meagler
OWNER'S SIGNATURE

The Owner is hereby granted permission to install and maintain the facilities applied for, as shown on the plans attached hereto and made a part hereof. Approved by NDDOT this 5 day of JUNE, 20 09.

NORTH DAKOTA DEPARTMENT OF TRANSPORTATION

Walter A. Petersen
DISTRICT ENGINEER (TYPE OR PRINT)
Walter A. Petersen
SIGNATURE

PIPELINE EASEMENT

That the **Township of Purcell**, hereinafter referred to as Grantor, being the owner of roadways situated in the County of Mountrail, State of North Dakota, hereby grants and conveys unto Whiting Oil and Gas of 2020 Highway 85 SW, Fairfield, ND 58267, hereinafter referred to as Grantees, their successors and assigns, the perpetual right, privilege and easement for a right-of-way to survey, construct, maintain, inspect, operate, protect, replace and repair one oil and/or gas pipeline and the appurtenances thereto upon, across and under the following described property located in Mountrail County, North Dakota, to-wit:

A strip of land 150 feet in width, together with the right during construction and maintenance, to use additional workspace as reasonably needed across the following described lands:

5TH PRINCIPAL MERIDIAN

T 155 N

R 91 W

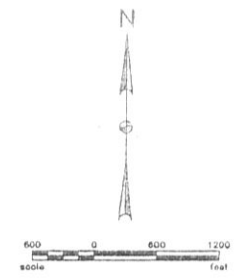
John D. & Kathryn Sauber
2330.43' 8" Steel Gas Line
(160.0' Right)

Marie Horstad Living Trust
2630.43' 0" Steel Gas Line
(160.0' Right)

Warren D. Craft
3082.21' 8" Steel Gas Line
(200.1' Right)

PI #	STATION	LATITUDE	LONGITUDE	DIRECTION	DISTANCE
S. Line	587+31.96				
60	588+12.71	48°13'53.80" N	102°21'10.10" W	001°22'33"	80.75'
61	590+96.79	48°13'56.60" N	102°21'10.10" W	001°22'33"	204.08'
62	593+91.11	48°13'56.49" N	102°21'09.60" W	007°57'55"	294.32'
63	597+00.80	48°13'42.51" N	102°21'10.10" W	335°03'02"	309.89'
64	639+56.10	48°14'24.52" N	102°21'10.11" W	001°22'22"	4255.30'
S. Line	640+14.17			001°19'21"	58.07'
1/4 Line	666+53.60			001°19'21"	2639.43'
65	692+34.08	48°15'18.61" N	102°21'10.18" W	001°19'21"	2580.48'
S. Line	692+93.23			001°41'29"	59.15'

NOTE:
Survey is based on North Dakota State Plane System, NAD83 (90), North Zone, U.S. Foot. Azimuths shown are Grid Azimuths, distances shown are grid distances. Combined scale factor = 1.00016310 to go from grid distance to ground distance.



NDDOT - R/W By Permit
Private - R/W Width 6'
Minimum Depth 48"

TOTAL: Horiz. Distance
SECTION 23 SECTION 14

2"		
3"		
4"		
6"	5282.21' Steel Gas	5278.06' Steel Gas
8"		
10"		



As-built Pipeline Survey
Robinson Lake Discharge Line

Kadmas
Lee &
Jackson

L. Allen S. Lowery, a Registered Land Surveyor, N.D., has examined the above survey and the survey and plans thereon and certifies that the survey and plans thereon were made in his field and to the best of his knowledge and belief, that the same are correct and true.

DATE: 11-11-07
DRAWN BY: SCW
CHECKED BY: JLS

WHITING PETROLEUM CORPORATION

SECTION 23 & 14
T. 155N., R. 91 W.
MOUNTAIN COUNTY, NORTH DAKOTA

SCALE: 1" = 600'
DATE: 11-11-07
DRAWN BY: SCW
CHECKED BY: JLS
TRACED BY: JLS

5TH PRINCIPAL MERIDIAN

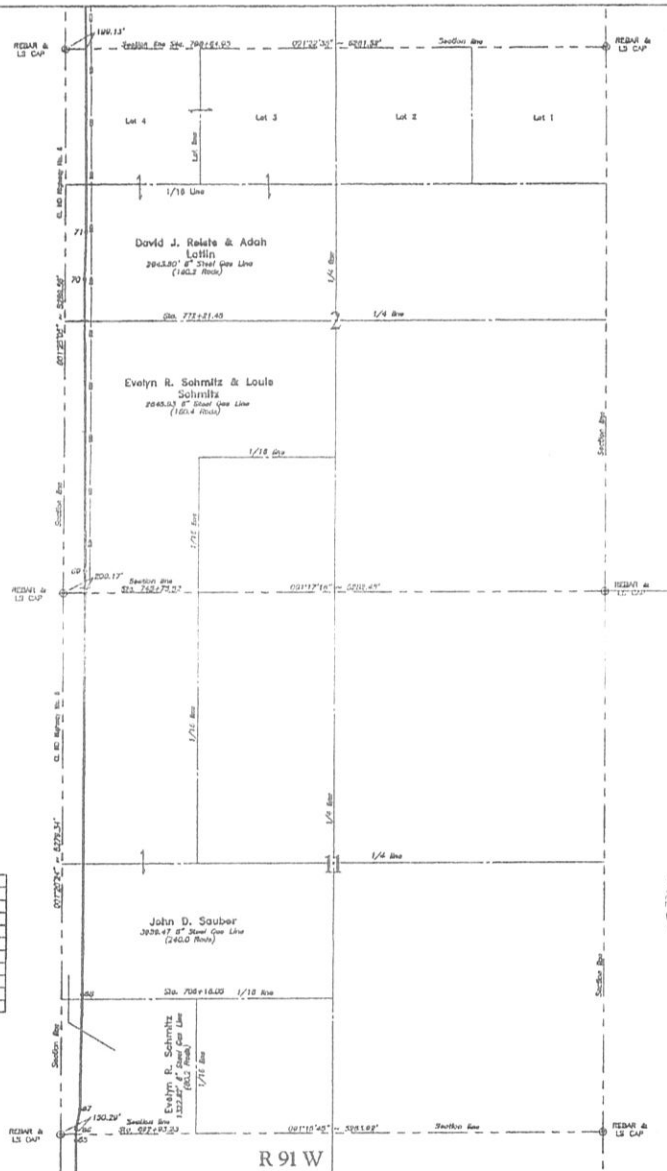
Robinson Lake Discharge 6" Steel Gas Line

PI #	STATION	DIRECTION	DISTANCE
704	194.11	NW-SE B' Pecan Island	
745	168.0	E-W Boundary of Road	
747	171.7	E-W Boundary of Road	
725	124.7	E-W Boundary of Road	
746	123.1	E-W Boundary of Road	
761	147.8	E-W Back W/4 Line	
774	132.6	E-W Back W/4 Line	

Robinson Lake Discharge 6" Steel Gas Line

PI #	STATION	LATITUDE	LONGITUDE	DIRECTION	DISTANCE
5. Line	692+95.25			001°41'29"	50.00'
65	693+44.10	48°16'19.69" N	102°21'10.18" W	011°06'26"	194.61'
67	695+39.10	48°15'19.89" N	102°21'09.89" W	002°10'17"	1079.05'
1/16 Line	708+16.05			002°10'17"	48.00'
68	708+62.71	48°15'30.68" N	102°21'09.48" W	001°28'28"	3012.81'
5. Line	745+25.52			001°28'28"	218.57'
69	747+65.30	48°16'11.48" N	102°21'09.36" W	000°59'48"	2428.06'
1/4 Line	772+21.45			000°59'48"	406.13'
70	776+20.58	48°18'59.43" N	102°21'09.04" W	002°49'50"	460.54'
71	780+90.12	48°16'43.67" N	102°21'09.46" W	001°25'55"	1774.63'
3. Line	798+64.97				

NOTE:
Survey is based on North Dakota State Plane System, NAD83 (98), North Zone, U.S. Foot. Azimuths shown are Grid Azimuths, distances shown are grid distance. Combined scale factor = 1.00018310 to go from grid distance to ground distance.



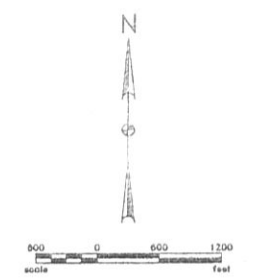
As-built Pipeline Survey
Robinson Lake Discharge Line

Kadmas
Lee &
Jackson
Registered Professional Surveyors
North Dakota

Alvin R. Lambert, a Registered Land Surveyor, N.D. REG. #1161, as shown hereby read the survey and found correct as shown and correct hereon was shown by Section Book number and reference. From said section to the 1/16 line the same is true and correct to the end of the line shown on said field survey was performed by Alvin R. Lambert on October 10, 2007.

Alvin R. Lambert
Surveyor

Scale: 1" = 600'



NDDOT - R/W By Permit
Private - R/W Width 6'
Minimum Depth 48"

TOTAL: Horiz. Distance
SECTION 11 SECTION 2

2"		
3"		
4"		
6"	5282.29' Steel Gas	5289.43' Steel Gas
8"		
10"		

WHITING PETROLEUM CORPORATION

SECTION 11 & 2
T. 155N., R. 91W.

MOUNTRAIL COUNTY, NORTH DAKOTA

SCALE: 1" = 600'
DATE: 11-1-07

DRAWN BY: SCW
TRACED BY: []
DRAWER: []
NO. []

IT IS FURTHER AGREED:

1. Grantees must bore and bury such pipeline to a sufficient depth so as not to injure or damage the existing roadway.
2. Grantees shall pay for all damages, if any, to the roadway under which the pipeline shall cross.
3. In the event that the damages are occasioned by the construction of or maintenance of the pipeline, Grantees shall repair and rebuild to the reasonable satisfaction of the Grantor any and all damaged parts of the existing roadway.
4. That the rights of the Grantees may be assigned in whole or in part.
5. That this instrument contains the entire agreement of the parties; that there are no other or different agreements or understanding between the Grantor and the Grantees or its agents; and that the Grantor, in executing and delivering this instrument, has not relied upon any promises, inducements, or representations of the Grantees or its agents or employees, except such as are set forth herein.
6. This instrument and the covenants and agreements herein contained shall inure to the benefit and be binding and obligatory upon the heirs, executors, administrators, successors and assigns of the parties herein.

Dated this 7 day of July, 2008

John Enander
John Enander, Chairman of the Board for Idaho Township.

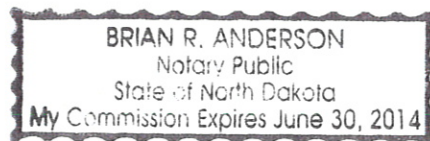
STATE OF NORTH DAKOTA }
 }
COUNTY OF MOUNTRAIL }

On this 7 day of July, 2008, before me personally appeared John Enander, chairman of the board for Idaho Township, of Mountrail County, known to me to be the same person described in and who executed the within and foregoing instrument and severally acknowledged that they executed the same.

(SEAL)

Brian R. Anderson
Notary Public

My commission expires: June 30, 2014



PIPELINE EASEMENT

That the **Township of Idaho**, hereinafter referred to as Grantor, being the owner of roadways situated in the County of Mountrail, State of North Dakota, hereby grants and conveys unto Whiting Oil and Gas of 2020 Highway 85 SW, Fairfield, ND 58267, hereinafter referred to as Grantees, their successors and assigns, the perpetual right, privilege and easement for a right-of-way to survey, construct, maintain, inspect, operate, protect, replace and repair one oil and/or gas pipeline and the appurtenances thereto upon, across and under the following described property located in Mountrail County, North Dakota, to-wit:

A strip of land 150 feet in width, together with the right during construction and maintenance, to use additional workspace as reasonably needed across the following described lands:

5TH PRINCIPAL MERIDIAN

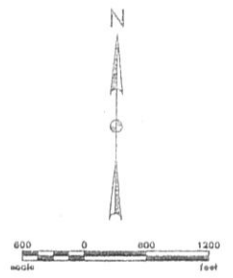
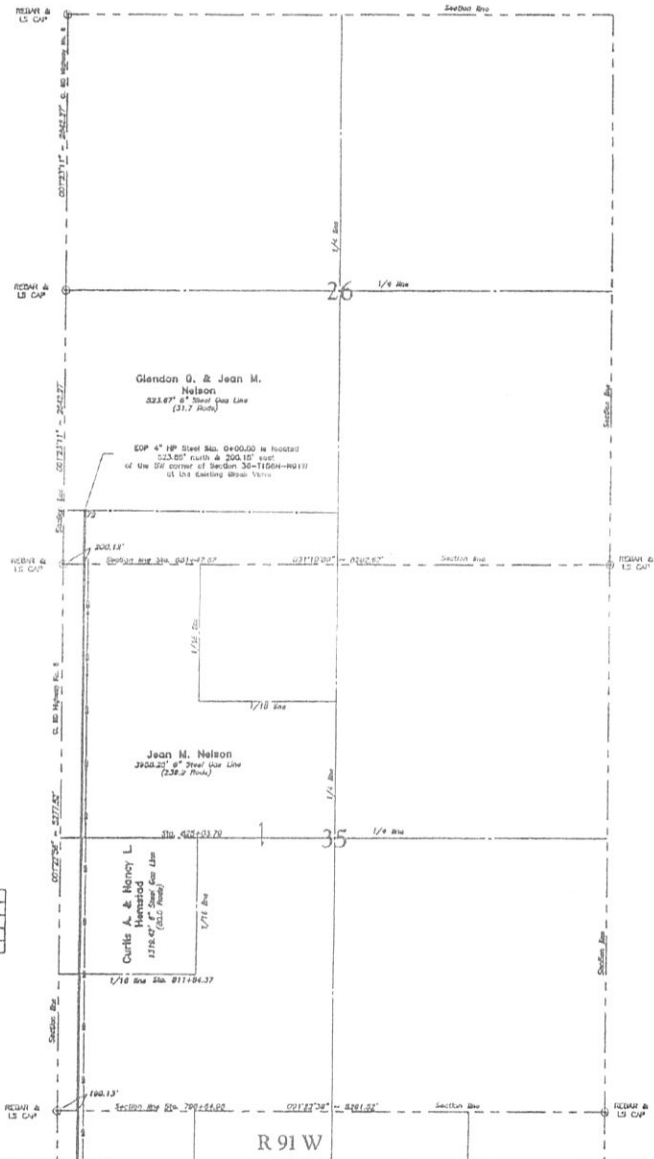
Robinson Lake Discharge 6" Steel Gas Line

PI	STATION	DESCRIPTION
181	1+00.0	E-W Back Wire Tap
182	1+00.0	E-W Back Wire Tap
183	1+00.0	E-W Shoulder of Road
184	1+00.0	E-W Edge of Road
185	1+00.0	E-W Shoulder of Road
186	1+00.0	E-W Edge of Road
187	1+00.0	E-W Shoulder of Road
188	1+00.0	E-W Edge of Road
189	1+00.0	E-W Shoulder of Road
190	1+00.0	E-W Edge of Road
191	1+00.0	E-W Shoulder of Road
192	1+00.0	E-W Edge of Road
193	1+00.0	E-W Shoulder of Road
194	1+00.0	E-W Edge of Road
195	1+00.0	E-W Shoulder of Road
196	1+00.0	E-W Edge of Road
197	1+00.0	E-W Shoulder of Road
198	1+00.0	E-W Edge of Road
199	1+00.0	E-W Shoulder of Road
200	1+00.0	E-W Edge of Road

Robinson Lake Discharge 6" Steel Gas Line

PI	STATION	LATITUDE	LONGITUDE	DIRECTION	DISTANCE
S Line	780+06.05				
1/4 Line	011+04.57	001°23'30"	1319.42'		
1/4 Line	025+03.79	001°23'30"	1319.42'		
S Line	051+42.62	001°23'30"	2638.85'		
72+00.00	058+06.29	48°17'58.74" N	102°21'00.43" W	001°23'30"	523.67'

NOTE:
Survey is based on North Dakota State Plane System, NAD83 (90), North Zone, U.S. Foot. Azimuths shown are Grid Azimuths, distances shown are grid distance. Combined scale factor = 1.0016310 to go from grid distance to ground distance.



NDDOT - R/W By Permit
Private - R/W Width 6'
Minimum Depth 48"
TOTAL: Horiz. Distance
SECTION 35 SECTION 26



As-Built Pipeline Survey
Robinson Lake Discharge Line

Kadrmas
Lee &
Jackson

Engineers Surveyors
Plumbers

12/15/24

Scale: 1" = 600'

DATE: 11-1-27

DRAWN BY: SCW

INCHES BY:

WHITING PETROLEUM CORPORATION

SECTION 35 & 26
T. 156N., R. 91 W.
MOUNTAIN COUNTY, NORTH DAKOTA

SCALE: 1" = 600'

DATE: 11-1-27

DRAWN BY: SCW

INCHES BY:

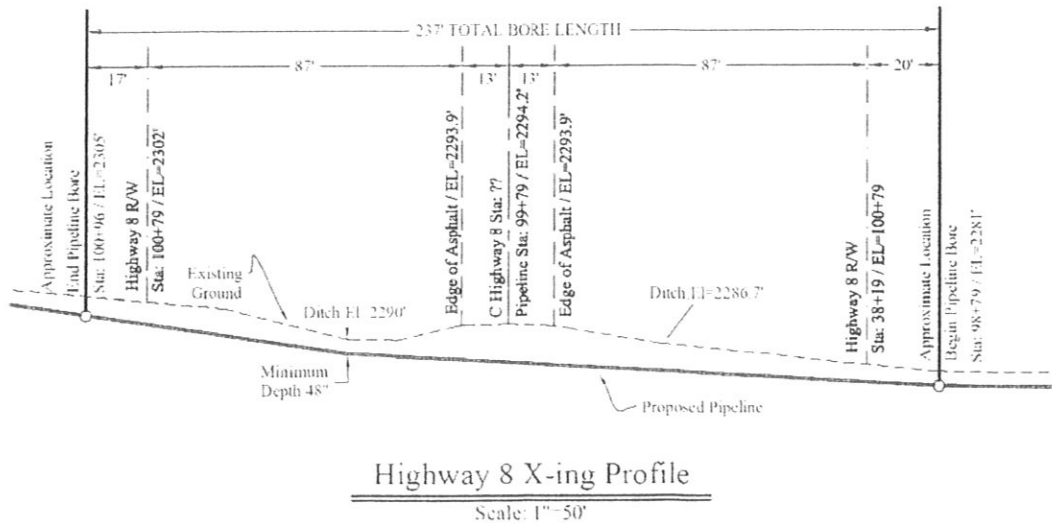
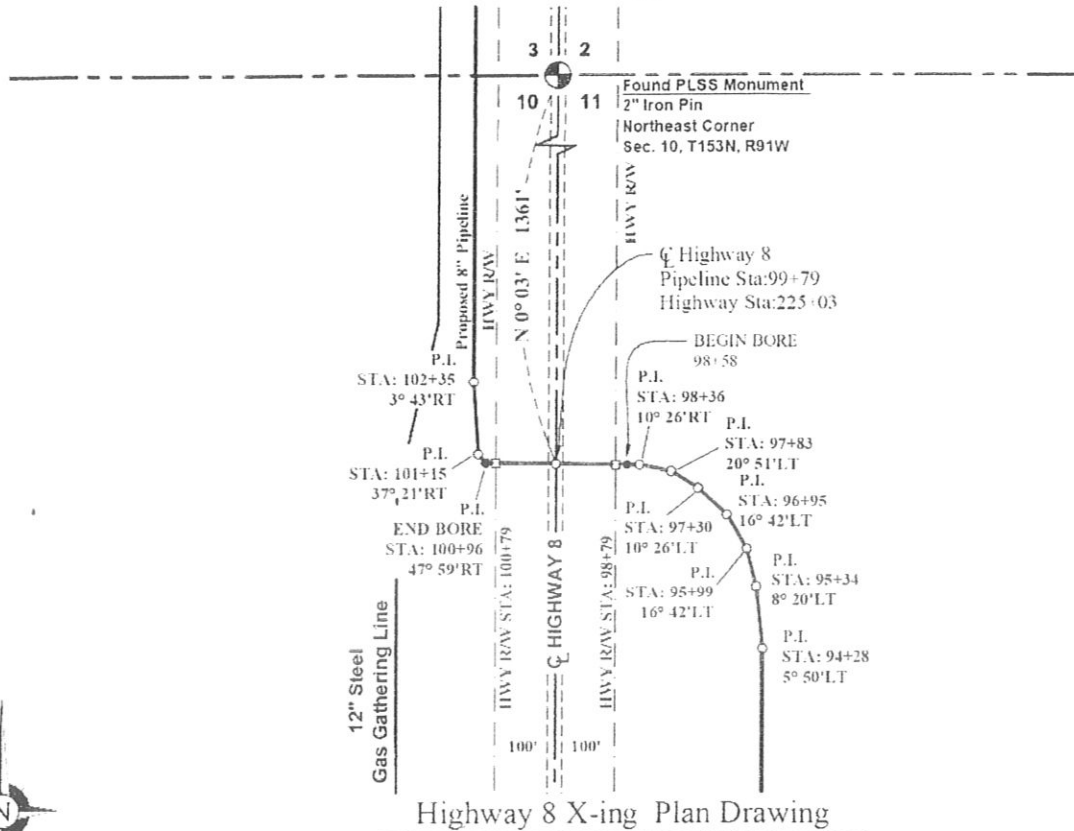
EXHIBIT DRAWING

Highway 8 Pipeline Crossing

Approximate Location = MP 140.3
 Sections 10 & 11, T153N, R91W
 Mountrail County, North Dakota



Whiting Petroleum Corporation



ECS INC.
 ERICKSON CONTRACT SURVEYING
 333 10th Ave. SE Sidney, Montana
 Office 406-482-6606 / Fax 406-482-6600

Highway 8 Pipeline Crossing
 Section 10, T153N R91W
 Section 11, T153N, R91W
 Mountrail County, North Dakota

Project No.: 2009-680	Rev. No.	Date	1 of 1 Sheet Number
Date: May 6, 2009			
Drawn By: D. Sletvold			
Checked By: M. Madler	OIL PIPELINE		

UTILITY OCCUPANCY APPLICATION AND PERMIT

North Dakota Department of Transportation, Design Division
SFN 7995 (Rev. 06-2008)

Document No. 71491 (FOR STATE USE ONLY) Permit No. 7-8-141.0695

APPLICANT INFORMATION

Owner of Facility <u>Whiting Oil and Gas</u>	City <u>Fairfield</u>	State <u>ND</u>	Zip Code <u>58267</u>
Mailing Address <u>2020 Highway 85 SW</u>			Telephone Number <u>701-575-8171</u>
Owner's Agent <u>Empire Oil Company</u>	City <u>Williston</u>	State <u>ND</u>	Zip Code <u>58802</u>
Owner's Contractor <u>ARP Enterprises</u>			Telephone Number <u>701-774-2845</u>
		City <u>Bowman</u>	State <u>ND</u>
			Telephone Number <u>701-523-4714</u>

LOCATION NO. 1 (FOR STATE USE ONLY) Begin Ref. Point 141.0695 End Ref. Point _____

Highway No. 8 Along or Across Lanes of traffic 2 4

Direction N S E W Begin 367 feet from reference marker #141

Direction N S E W End _____ feet from reference marker _____

N S E W from city of Stanley or 9 miles from junction highway 2

TYPE OF FACILITY (Complete appropriate spaces only.)

Description of Proposed Facility <u>8" Oil Discharge Pipeline (Steel) To Stanley Enbridge Site</u>		
Size of Facility <u>8" Steel</u>	Number of Cables	Length of Down Guys
Pipeline Pressure <u>1200 lbs. Max.</u>	Size of Casing	Length of Casing
Location of Pole(s)	Location of Appurtenances	Location - Others

TERMS AND CONDITIONS: Installation and maintenance of said facilities on highway right of way shall be subject to the North Dakota Department of Transportation's (NDDOT's) "A Policy for Accommodation of Utilities on State Highway Right of Way", current edition, and the following terms and conditions, attached hereto and made a part hereof.

- (A) Installation/maintenance of said facilities shall be done in a manner satisfactory to the NDDOT district engineer.
- (B) Owner shall notify the NDDOT district engineer forty-eight (48) hours prior to installing, maintaining, relocating, or removing said facilities. All disturbed areas shall be restored to their original condition in a manner satisfactory to the NDDOT district engineer.
- (C) The owner shall be required to wear an ANSI 107 Class II height visibility garment while within the highway right-of-way as per the requirements of 23 CFR 634.
- (D) The Risk Management Appendix, attached, is hereby incorporated and made a part of this agreement.
- (E) Owner shall repair or replace highway structures and appurtenances, and any existing facilities located on, over, or under highway right of way, which may be damaged as a result of the installation and maintenance of said facilities on highway right of way.
- (F) Owner shall promptly remove said facilities from highway right of way, or shall relocate or adjust said facilities, at its sole cost and expense when requested to do so by NDDOT.
- (G) NDDOT specifically reserves the right to revoke, or change the terms and conditions of, this Permit with or without cause and upon notice to the Owner.
- (H) The installation shall be completed on or before 9-1, 20 09

6-1-2009
DATE

Steve Muehlen
OWNER'S SIGNATURE

The Owner is hereby granted permission to install and maintain the facilities applied for, as shown on the plans attached hereto and made a part hereof. Approved by NDDOT this 5 day of JUNE, 20 09.

NORTH DAKOTA DEPARTMENT OF TRANSPORTATION

Walter A. Petersen
DISTRICT ENGINEER (TYPE OR PRINT)

Walter A. Petersen
SIGNATURE

PIPELINE EASEMENT

That the **Township of Sikes**, hereinafter referred to as Grantor, being the owner of roadways situated in the County of Mountrail, State of North Dakota, hereby grants and conveys unto Whiting Oil and Gas of 2020 Highway 85 SW, Fairfield, ND 58267, hereinafter referred to as Grantees, their successors and assigns, the perpetual right, privilege and easement for a right-of-way to survey, construct, maintain, inspect, operate, protect, replace and repair one oil and/or gas pipeline and the appurtenances thereto upon, across and under the following described property located in Mountrail County, North Dakota, to-wit:

A strip of land 150 feet in width, together with the right during construction and maintenance, to use additional workspace as reasonably needed across the following described lands:

5TH PRINCIPAL MERIDIAN

Robbison Lake Discharge 6" Steel Gas Line

STATION	BEARING	DISTANCE
11	N 102° 21' 10.27" W	207.3443
12	N 102° 21' 10.27" W	207.3443
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Robbison Lake Discharge 6" Steel Gas Line

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NOTE:
Survey is based on North Dakota State Plane System, NAD83 (98), North Zone, U.S. Feet. Azimuths shown are Grid Azimuths. Distances shown are grid distances. Conversion scale factor = 1.00016310 to go from grid distance to ground distance.

T 154 N

R 91 W



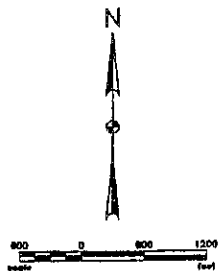
As-Built Pipeline Survey
Robbison Lake Discharge Line

Kedmas Lee & Jackson
Professional Engineers
1100 1st St. N
Grand Forks, ND 58201
Phone: (701) 775-1111
Fax: (701) 775-1112
www.kedmaslee.com

WHITING PETROLEUM CORPORATION

SECTION 35 & 26
T. 154 N., R. 91 W.
MOUNTAIN COUNTY, NORTH DAKOTA

SCALE: 1" = 500'
DATE: 11-1-07
DRAWN BY: [Signature]
CHECKED BY: [Signature]
TRACED BY: [Signature]



NDDOT - R/W By Permit
Private - R/W Width 6"
Minimum Depth 48"

TOTAL: Horz. Distance
SECTION 35 SECTION 26

2"		
3"		
4"		
6"	5260.17' Steel Gas	5364.26' Steel Gas
8"		
10"		

5TH PRINCIPAL MERIDIAN

Robinson Lake Discharge 6" Steel Gas Line

STATION	DATE	BY	REMARKS
100+00	11/11/08	W. J. Lee	Start of Line
100+10	11/11/08	W. J. Lee	100' Highway R/W
100+20	11/11/08	W. J. Lee	100' Highway R/W
100+30	11/11/08	W. J. Lee	100' Highway R/W
100+40	11/11/08	W. J. Lee	100' Highway R/W
100+50	11/11/08	W. J. Lee	100' Highway R/W
100+60	11/11/08	W. J. Lee	100' Highway R/W
100+70	11/11/08	W. J. Lee	100' Highway R/W
100+80	11/11/08	W. J. Lee	100' Highway R/W
100+90	11/11/08	W. J. Lee	100' Highway R/W
101+00	11/11/08	W. J. Lee	End of Line

Robinson Lake Discharge 6" Steel Gas Line

STATION	DATE	BY	REMARKS
24	264+28.58		
24	287+13.71	48°08'40.91" N	102°21'08.18" W
1/4	282+85.14		
25	298+17.93	48°08'51.49" N	102°21'04.40" W
28	314+74.79	48°09'07.79" N	102°21'02.30" W
S. Line	319+46.92		
27	328+52.59	48°09'21.38" N	102°21'02.28" W
28	335+06.49	48°09'27.70" N	102°21'04.36" W
S. Line	372+52.97		

NOTE
Survey is based on North Dakota State Plane System, NAD83 (95), North Zone, U.S. Feet. Azimuths shown are Grid Azimuths, distances shown are grid distances. Combined scale factor = 1.00018310 to go from grid distance to ground distance.

T 154 N

R 91 W

Douglas K. Kinnel
3208.05' 6" Steel Gas Line
(371.8' Road)

Elgene P. & Emma J. Jorgensen
2811.79' 6" Steel Gas Line
(201.1' Road)

John W. Jr. & Vaughn NiemiHole
2228.48' 6" Steel Gas Line
(181.0' Road)



As-built Pipeline Survey
Robinson Lake Discharge Line

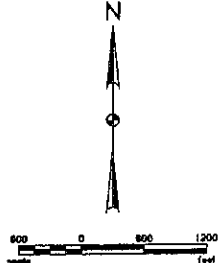
Kadmas Lee & Jackson
Professional Surveyors
1010 1st St. N
Grand Forks, ND 58201
Phone: 701-775-1111
Fax: 701-775-1112
www.kadmasleeandjackson.com

W. J. Lee
Surveyor

WHITING PETROLEUM CORPORATION

SECTION 23 & 14
T. 154 N., R. 91 W.
MOUNTAIN COUNTY, NORTH DAKOTA

SCALE: 1" = 800'
DATE: 11-11-08
DRAWN BY: SCW
CHECKED BY: JCL
PROJECT NO.: 108



NDDOT - R/W By Permit
Private - R/W Width 6'
Minimum Depth 48"

TOTAL Horiz. Distance
SECTION 23 SECTION 14

2"		
3"		
4"		
6"	5318.25' Steel Gas	5308.05' Steel Gas
8"		
10"		

5TH PRINCIPAL MERIDIAN

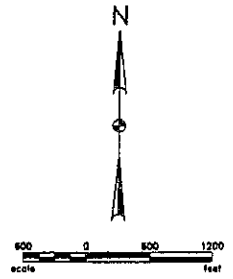
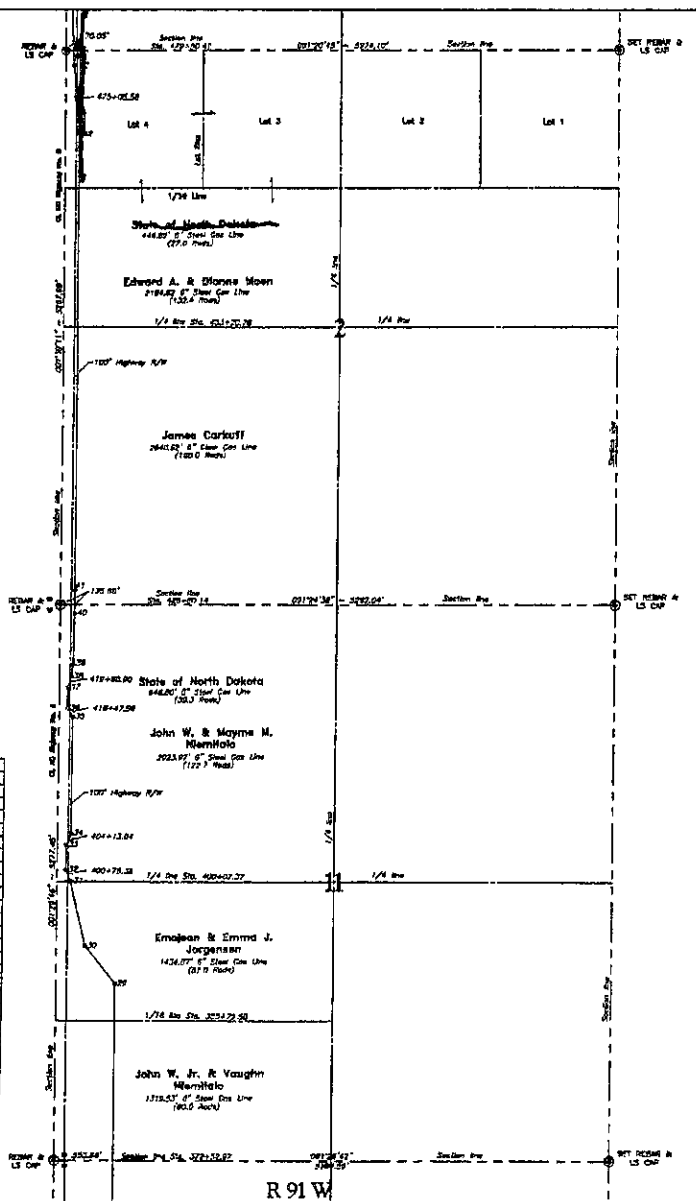
Robinson Lake Discharge 6" Steel Gas Line

STATION	DESCRIPTION
111	111+00.00
112	112+00.00
113	113+00.00
114	114+00.00
115	115+00.00
116	116+00.00
117	117+00.00
118	118+00.00
119	119+00.00
120	120+00.00
121	121+00.00
122	122+00.00
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126	126+00.00
127	127+00.00
128	128+00.00
129	129+00.00
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194	194+00.00
195	195+00.00
196	196+00.00
197	197+00.00
198	198+00.00
199	199+00.00
200	200+00.00

Robinson Lake Discharge 6" Steel Gas Line

STATION	STATION	LATITUDE	LONGITUDE	DIRECTION	DISTANCE
S. Line	372+89.57			001°23'05"	1319.53
1/16" Line	385+72.50			322°50'05"	349.45
29	389+21.85	48°10'21.13" N	102°21'04.35" W	322°50'05"	458.86
30	393+78.81	48°10'24.65" N	102°21'09.45" W	348°42'17"	628.58
1/4" Line	400+07.37			348°42'17"	0.79
31	400+08.16	48°10'30.71" N	102°21'10.56" W	348°10'28"	70.22
R/W Line	400+78.38			348°10'28"	48.54
32	401+27.02	48°10'31.61" N	102°21'11.23" W	001°28'37"	238.50
33	403+65.54	48°10'34.18" N	102°21'11.22" W	022°56'16"	48.50
R/W Line	404+13.64			022°56'16"	72.89
34	404+88.40	48°10'35.27" N	102°21'18.57" W	001°28'46"	1108.23
35	415+94.83	48°10'48.21" N	102°21'10.53" W	331°28'37"	52.81
R/W Line	416+47.58			331°28'37"	39.73
36	418+87.28	48°10'47.00" N	102°21'11.23" W	001°44'40"	199.24
37	418+87.23	48°10'48.97" N	102°21'11.21" W	018°19'51"	73.67
R/W Line	419+80.90			018°19'51"	52.34
38	419+93.24	48°10'50.00" N	102°21'18.80" W	008°57'14"	124.22
39	421+19.48	48°10'51.22" N	102°21'10.53" W	002°28'21"	477.31
40	425+98.77	48°10'53.83" N	102°21'16.39" W	001°28'00"	183.37
S. Line	426+90.14			001°28'00"	130.78
41	428+18.92	48°10'58.12" N	102°21'10.38" W	001°24'56"	291.84
1/2" Line	433+20.78			001°24'56"	1845.48
42	441+88.22	48°11'41.02" N	102°21'10.33" W	358°30'26"	339.38
R/W Line	475+82.45			358°30'26"	306.02
43	475+11.60	48°11'47.37" N	102°21'11.14" W	357°50'53"	138.87
S. Line	478+53.47				

NOTES:
Survey is based on North Dakota State Plane System, NAD83 (98), North Zone, U.S. Foot. Azimuths shown are Grid Azimuths, distances shown are grid distances. Combined scale factor = 1.00016310 to go from grid distance to ground distance.



NDDOT - R/W By Permit
Private - R/W Width 6'
Minimum Depth 48"

TOTAL: Horz. Distance
SECTION 11 SECTION 2

2"	
3"	
4"	
6"	5473.17' Steel Gas
8"	5270.33' Steel Gas
10"	



As-built Pipeline Survey
Robinson Lake Discharge Line

Kedmas
Lee &
Jackson

1/11/2008

WHITING PETROLEUM CORPORATION

SECTION 11 & 2
T. 154 N., R. 91 W.
MOUNTAIN COUNTY, NORTH DAKOTA

SCALE: 1" = 800'
DATE: 11-11-07
DRAWN BY: BOW
CHECKED BY: HNS

PIPELINE EASEMENT

That the **Township of Crane Creek**, hereinafter referred to as Grantor, being the owner of roadways situated in the County of Mountrail, State of North Dakota, hereby grants and conveys unto Whiting Oil and Gas of 2020 Highway 85 SW, Fairfield, ND 58267, hereinafter referred to as Grantees, their successors and assigns, the perpetual right, privilege and easement for a right-of-way to survey, construct, maintain, inspect, operate, protect, replace and repair one oil and/or gas pipeline and the appurtenances thereto upon, across and under the following described property located in Mountrail County, North Dakota, to-wit:

A strip of land 150 feet in width, together with the right during construction and maintenance, to use additional workspace as reasonably needed across the following described lands:

5TH PRINCIPAL MERIDIAN

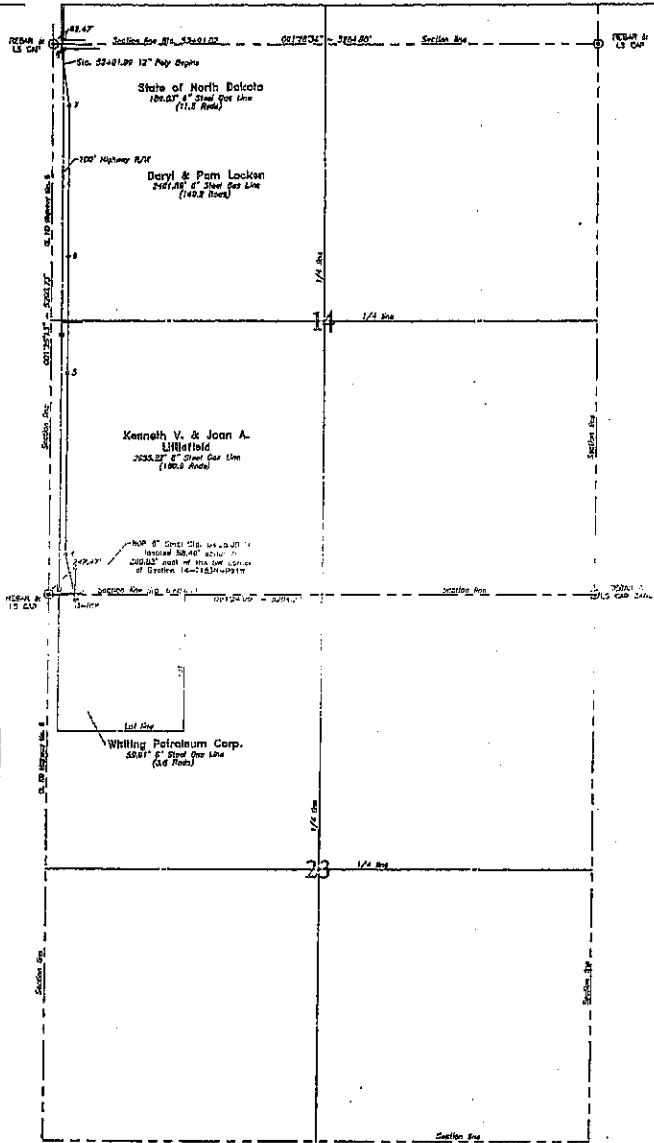
Robinson Lake Discharge 6" Steel Gas Line

PI #	STATION	DESCRIPTION
1	0+00.00	Begin Line at Whiting Gas Plant
2	0+00.00	W Side Wire Fence
3	0+00.00	W Side Wire Fence / Road Crp.
4	0+00.00	End Crp. / Road Crp.
5	0+00.00	End Crp. / Road Crp.
6	0+00.00	W Side Wire Fence / Road Crp.
7	0+00.00	End Crp. / Road Crp.
8	0+00.00	W Side Wire Fence / Road Crp.
9	0+00.00	End Crp. / Road Crp.
10	0+00.00	W Side Wire Fence / Road Crp.
11	0+00.00	End Crp. / Road Crp.
12	0+00.00	W Side Wire Fence / Road Crp.
13	0+00.00	End Crp. / Road Crp.
14	0+00.00	W Side Wire Fence / Road Crp.
15	0+00.00	End Crp. / Road Crp.
16	0+00.00	W Side Wire Fence / Road Crp.
17	0+00.00	End Crp. / Road Crp.
18	0+00.00	W Side Wire Fence / Road Crp.
19	0+00.00	End Crp. / Road Crp.
20	0+00.00	W Side Wire Fence / Road Crp.
21	0+00.00	End Crp. / Road Crp.
22	0+00.00	W Side Wire Fence / Road Crp.
23	0+00.00	End Crp. / Road Crp.
24	0+00.00	W Side Wire Fence / Road Crp.
25	0+00.00	End Crp. / Road Crp.
26	0+00.00	W Side Wire Fence / Road Crp.
27	0+00.00	End Crp. / Road Crp.
28	0+00.00	W Side Wire Fence / Road Crp.
29	0+00.00	End Crp. / Road Crp.
30	0+00.00	W Side Wire Fence / Road Crp.
31	0+00.00	End Crp. / Road Crp.
32	0+00.00	W Side Wire Fence / Road Crp.
33	0+00.00	End Crp. / Road Crp.
34	0+00.00	W Side Wire Fence / Road Crp.
35	0+00.00	End Crp. / Road Crp.
36	0+00.00	W Side Wire Fence / Road Crp.
37	0+00.00	End Crp. / Road Crp.
38	0+00.00	W Side Wire Fence / Road Crp.
39	0+00.00	End Crp. / Road Crp.
40	0+00.00	W Side Wire Fence / Road Crp.
41	0+00.00	End Crp. / Road Crp.
42	0+00.00	W Side Wire Fence / Road Crp.
43	0+00.00	End Crp. / Road Crp.
44	0+00.00	W Side Wire Fence / Road Crp.
45	0+00.00	End Crp. / Road Crp.
46	0+00.00	W Side Wire Fence / Road Crp.
47	0+00.00	End Crp. / Road Crp.
48	0+00.00	W Side Wire Fence / Road Crp.
49	0+00.00	End Crp. / Road Crp.
50	0+00.00	W Side Wire Fence / Road Crp.
51	0+00.00	End Crp. / Road Crp.
52	0+00.00	W Side Wire Fence / Road Crp.
53	0+00.00	End Crp. / Road Crp.
54	0+00.00	W Side Wire Fence / Road Crp.
55	0+00.00	End Crp. / Road Crp.
56	0+00.00	W Side Wire Fence / Road Crp.
57	0+00.00	End Crp. / Road Crp.
58	0+00.00	W Side Wire Fence / Road Crp.
59	0+00.00	End Crp. / Road Crp.
60	0+00.00	W Side Wire Fence / Road Crp.
61	0+00.00	End Crp. / Road Crp.
62	0+00.00	W Side Wire Fence / Road Crp.
63	0+00.00	End Crp. / Road Crp.
64	0+00.00	W Side Wire Fence / Road Crp.
65	0+00.00	End Crp. / Road Crp.
66	0+00.00	W Side Wire Fence / Road Crp.
67	0+00.00	End Crp. / Road Crp.
68	0+00.00	W Side Wire Fence / Road Crp.
69	0+00.00	End Crp. / Road Crp.
70	0+00.00	W Side Wire Fence / Road Crp.
71	0+00.00	End Crp. / Road Crp.
72	0+00.00	W Side Wire Fence / Road Crp.
73	0+00.00	End Crp. / Road Crp.
74	0+00.00	W Side Wire Fence / Road Crp.
75	0+00.00	End Crp. / Road Crp.
76	0+00.00	W Side Wire Fence / Road Crp.
77	0+00.00	End Crp. / Road Crp.
78	0+00.00	W Side Wire Fence / Road Crp.
79	0+00.00	End Crp. / Road Crp.
80	0+00.00	W Side Wire Fence / Road Crp.
81	0+00.00	End Crp. / Road Crp.
82	0+00.00	W Side Wire Fence / Road Crp.
83	0+00.00	End Crp. / Road Crp.
84	0+00.00	W Side Wire Fence / Road Crp.
85	0+00.00	End Crp. / Road Crp.
86	0+00.00	W Side Wire Fence / Road Crp.
87	0+00.00	End Crp. / Road Crp.
88	0+00.00	W Side Wire Fence / Road Crp.
89	0+00.00	End Crp. / Road Crp.
90	0+00.00	W Side Wire Fence / Road Crp.
91	0+00.00	End Crp. / Road Crp.
92	0+00.00	W Side Wire Fence / Road Crp.
93	0+00.00	End Crp. / Road Crp.
94	0+00.00	W Side Wire Fence / Road Crp.
95	0+00.00	End Crp. / Road Crp.
96	0+00.00	W Side Wire Fence / Road Crp.
97	0+00.00	End Crp. / Road Crp.
98	0+00.00	W Side Wire Fence / Road Crp.
99	0+00.00	End Crp. / Road Crp.
100	0+00.00	W Side Wire Fence / Road Crp.

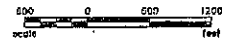
Robinson Lake Discharge 6" Steel Gas Line

PI #	STATION	LATITUDE	LONGITUDE	DIRECTION	DISTANCE
3+80.00	0+23.00	48°04'20.78" N	102°21'10.89" W	148°31'08"	59.01'
S. Line	0+24.31				
4	4+84.35	48°04'03.54" N	102°21'10.87" W	348°31'08"	396.44'
5	22+33.28	48°04'20.80" N	102°21'10.68" W	001°28'04"	1745.97'
1/4 Line	27+40.13			001°25'53"	306.57'
6	33+38.78	48°04'31.80" N	102°21'10.83" W	001°28'03"	1810.53'
7	42+48.23	48°04'48.13" N	102°21'10.61" W	001°28'17"	1445.69'
R/W Line	36+01.08			353°09'30"	402.74'
8	53+24.80	48°04'51.28" N	102°21'11.72" W	353°08'30"	122.81'
S. Line	53+21.02			007°33'55"	86.12'

NOTE:
Survey is based on North Dakota State Plane System, NAD83 (96), North Zone, U.S. Foot. Azimuths shown are Grid Azimuths, distances shown are grid distances. Combined scale factor = 1.00016313 to go from grid distance to ground distance.



R 91 W



NDDOT - R/W By Permit
Private - R/W Width 5'
Minimum Depth 48"

TOTAL: Horz. Distance
SECTION 23 SECTION 14

2"		
3"		
4"		
6"	59.01' Steel Gas	3306.11' Steel Gas
8"		
10"		



As-Built Plotting Survey
Robinson Lake Discharge Line

Kadmas
Lee
Jackson

1. John S. Lambert & Associates
Land Surveyors, 802 21st St.,
Bismarck, ND 58102. We warrant
that the survey and drawings
were made in accordance with
the laws of North Dakota and
that the same are correct and
true. Our services are performed
by duly licensed surveyors.
Date: 11-1-07

SCALE: 1" = 400'
DATE: 11-1-07
DRAWN BY: BOW
CHECKED BY: JAL

WHITING PETROLEUM CORPORATION

SECTION 23 & 14
T. 153 N., R. 91 W.
MOUNTAIN COUNTY, NORTH DAKOTA

SCALE: 1" = 400'
DATE: 11-1-07
DRAWN BY: BOW
CHECKED BY: JAL

RETURN TO:

EMPIRE OIL COMPANY

PO BOX 1835

WILLISTON ND 58802-1835

County Recorder

Mountrail County

Page 1 of 4

Book 823 Page 401

341945

PIPELINE EASEMENT

That the **County of Mountrail**, a municipal corporation under the laws of the State of North Dakota, hereinafter referred to as Grantor, being the owner of certain real property situated in the County of Mountrail, State of North Dakota, for and in consideration of the sum of Ten Dollars (\$10.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, hereby grants and conveys unto Whiting Oil and Gas of 2020 Highway 85 SW, Fairfield, ND 58267, hereinafter referred to as grantees, their successors and assigns, the perpetual right, privilege and easement for a right-of-way to survey, construct, maintain, inspect, operate, protect, replace and repair one oil and/or gas pipeline and the appurtenances thereto upon, across and under the following described property located in Mountrail County, North Dakota, to-wit:

A strip of land 150 feet in width, together with the right during construction and maintenance, to use additional workspace as reasonably needed across the following described lands:

51st St NW between SW $\frac{1}{4}$ of Section 14, Township 154, Range 91 &

NW $\frac{1}{4}$ of Section 23, Township 154, Range 91 (See attached map)

401

Angie Durand

From: Heidi_Kuska@fws.gov
Sent: Monday, June 29, 2009 2:17 PM
To: Angie Durand
Subject: Re: Whiting Oil and Gas Corporation - Migratory Bird Treaty Act - Updated Construction Schedule
Attachments: pic26500.gif

Angie,

Thank you for providing the details of the construction. We have reviewed your plan for avoiding take of migratory birds and the Service agrees that Whiting has shown a good faith effort to comply with the Migratory Bird Treaty Act by providing a buffer for active nests and avoiding construction in those areas during the breeding season.

If project plans change, or if Whiting or their consultants have further questions, please feel free to contact me.

Sincerely,

Heidi Kuska

~~~~~

Heidi Kuska  
Fish and Wildlife Biologist  
U.S. Fish and Wildlife Service  
North Dakota Ecological Services Field Office  
3425 Miriam Avenue  
Bismarck ND 58501  
Ph: 701.250.4481, or 701.355.8503  
Fax: 701.355.8513  
Email: [heidi\\_kuska@fws.gov](mailto:heidi_kuska@fws.gov)

Angie Durand  
<ADurand@Merjent.  
com>

06/29/2009 12:28  
PM

"[heidi\\_kuska@fws.gov](mailto:heidi_kuska@fws.gov)"  
<[heidi\\_kuska@fws.gov](mailto:heidi_kuska@fws.gov)>

"Bill J. Regan"  
<[BRegan@Merjent.com](mailto:BRegan@Merjent.com)>

Subject  
Whiting Oil and Gas Corporation -  
Migratory Bird Treaty Act - Updated  
Construction Schedule

To

cc

Heidi,

As we discussed on the phone today, due to the presence of potentially active migratory bird nests on or adjacent to Whiting's proposed construction corridor, Whiting will initiate construction activities on July 7, 2009 starting on the north end of the pipeline route and will move in a southerly direction. Whiting will temporarily halt activities 100 yards north of the northernmost nest (a killdeer nest located in T155N, R91W, Section 35) until the migratory bird timing restriction (February 1 - July 15th) has expired. Whiting will proceed with construction activities along the remainder of the pipeline route on July 16, 2009.

Whiting requests your concurrence that this construction schedule will comply with the Migratory Bird Treaty Act by avoiding nesting birds within the breeding season. Your response will be included in Whiting's pre-construction filing to the North Dakota Public Service Commission.

Thank you for your time, we look forward to your response.

Sincerely,  
Angela Durand

(Embedded image moved to file:  
pic26500.gif)  
Merjent-for-Signature-Block

Angela Durand

615 First Avenue NE

612.746.3660 main

Suite 425

612.746.3666 direct

Minneapolis, MN 55413

612.746.3679 fax

[www.merjent.com](http://www.merjent.com)

[adurand@merjent.com](mailto:adurand@merjent.com)

## Angie Durand

---

**From:** Angie Durand  
**Sent:** Tuesday, June 16, 2009 9:06 AM  
**To:** 'heidi\_kuska@FWS.gov'  
**Cc:** Bill J. Regan  
**Subject:** Nesting Migratory Bird Survey Results - Whiting Oil & Gas Corporation  
**Attachments:** Robinson Lake Migratory Bird Survey FINAL.pdf

Heidi,

My name is Angie Durand, I work with Bill Regan (at Merjent, Inc.) on behalf of Whiting Oil & Gas Corporation (Whiting). You had a phone conversation with Bill on May 29 regarding the upcoming construction of Whiting's oil pipeline in Mountrail County. Specifically, you and Bill discussed the nesting migratory bird survey that was being conducted to comply with PSC permit conditions (based on measures set forth in the U.S. Fish and Wildlife Service's February 11, 2009 and September 30, 2008 letters). The nesting migratory bird survey was conducted between May 18 and May 21, 2009 and a copy of the survey report is attached for your review. Whiting plans to initiate construction activities around July 1, 2009.

The survey effort covered an area larger than the area that will be disturbed during construction of the oil pipeline. As identified in the PSC application, the construction work area for the oil pipeline will be 45-feet-wide (15 feet west and 30 feet east of the staked centerline). Based on this information, only one of the nests identified in the survey is located within the construction work area.

For your use, the table below summarizes the nest location information with regard to the construction work area.

| ACTIVE NESTS LOCATED DURING FIELD SURVEY |                                  |                      |                                                                                                                                                   |
|------------------------------------------|----------------------------------|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| Species                                  | Distance/Direction from Pipeline | Legal Description    | Nest Location Summary                                                                                                                             |
| Mallard                                  | 61 feet / West                   | Sec 26 T154N<br>R91W | Located 61 feet west of the proposed pipeline centerline; therefore, this nest is located <b>outside</b> of the area of construction disturbance. |
| Killdeer                                 | 25 feet / East                   | Sec 23 T154N<br>R91W | Located 25 feet east of the proposed pipeline centerline; therefore, this nest is located <b>within</b> the area of construction disturbance.     |
| Mallard                                  | 77 feet / East                   | Sec 11 T154N<br>R91W | Located 77 feet east of the proposed pipeline centerline; therefore, this nest is located <b>outside</b> of the area of construction disturbance. |
| Mallard                                  | 110 feet / East                  | Sec 11 T154N<br>R91W | Located 110 feet east of the proposed pipeline centerline; therefore, this nest is located <b>outside</b> the area of construction disturbance.   |
| Common Snipe                             | 57 feet / East                   | Sec 35 T155N<br>R91W | Located 57 feet east of the proposed pipeline centerline; therefore, this nest is located <b>outside</b> of the area of construction disturbance. |
| Killdeer                                 | 45 feet / East                   | Sec 35 T155N<br>R91W | Located 45 feet east of the proposed pipeline centerline; therefore, this nest is located <b>outside</b> of the area of construction disturbance. |

As stated above, there is one killdeer nest located within the construction work area. Because activities are not scheduled to proceed until around July 1 (nearing the end of the timing restriction), it is unlikely the nest will still be in use as killdeer do not feed their chicks in the nest. Within 24 hours after hatching the chicks are able to

walk and the parents lead the chicks away from the nest to a feeding area. In addition, killdeer in the northern U.S. generally only raise one brood per year. Based on this information, we believe the project will not disrupt the breeding of migratory birds and request your concurrence with this determination.

If you require further information or have any questions, please contact me (see contact information below). I appreciate your time and look forward to hearing from you.

Sincerely,

Angie Durand



**Angela Durand**

|                       |                     |
|-----------------------|---------------------|
| 615 First Avenue NE   | 612.746.3660 main   |
| Suite 425             | 612.746.3666 direct |
| Minneapolis, MN 55413 | 612.746.3679 fax    |

[www.merjent.com](http://www.merjent.com)

[adurand@merjent.com](mailto:adurand@merjent.com)

# **TECHNICAL REPORT**

## **NESTING MIGRATORY BIRD ASSESSMENT**

**WHITING PETROLEUM  
ROBINSON LAKE PIPELINE PROJECTS  
MOUNTRAIL COUNTY, ND**

**JUNE 10, 2009**

**STUDY REQUESTED BY:**

**MERJENT INC.  
615 FIRST AVE. NE STE 425  
MINNEAPOLIS, MN 55413**

**Prepared By:**

**2610 Old Red Trail, STE. C  
Mandan, ND 58554-1447  
(701) 667-1800**



**Engineering, Environmental, & Regulatory Affairs Professionals**

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## **1.0 INTRODUCTION**

Whiting Petroleum Corporation (Whiting) proposed to construct a 17-mile long, 8-inch liquid petroleum pipeline in Mountrail County, North Dakota in late 2008. Due to extreme winter weather conditions, construction of the pipeline was postponed until spring of 2009. The U.S. Fish and Wildlife Service (FWS) has recommended a field survey be conducted of nesting migratory birds during the breeding season (February 1 to July 15) to prevent disruption of migratory birds or active nests.

Merjent Inc. contracted with Keitu Engineers & Consultants, Inc. (Keitu) on behalf of Whiting to conduct a nesting migratory bird assessment of the pipeline construction corridor to comply with the requirements of the FWS. The field assessment was to be conducted within a corridor width of 40 feet on either side of each pipeline right-of-way.

The purpose of the field evaluation along the pipeline corridor was to determine potential impacts to migratory birds and active nesting sites. The outcome of the study may prompt development of alternatives and mitigation methods in consultation with the U.S. Fish and Wildlife Service.

## **2.0 SITE LOCATION AND DESCRIPTION**

The proposed project area is located in Mountrail County, ND which consists of glacial till plains, glaciolacustrine deposits, kettle holes, kames, moraines, and glacial lake plains. The historical and current use of the property was/is agricultural with the exclusion of several wetlands which contain established plant communities. A significant quantity of the pipeline route will cross agricultural and pasture lands where crop and livestock production are the extensive economic activity. The primary crops cultivated in the area include wheat, grain, corn, and alfalfa.

## **3.0 METHODOLOGY**

Investigations were conducted on potential impacts construction activity may have to migratory bird and other wildlife species as well as their habitats. Information was gathered from a variety of sources to compile the existing conditions of migratory birds within the proposed route. Sources included information from the North Dakota Game and Fish Department (NDGF), the U.S. Fish and Wildlife Service (USFWS), the ND Parks and Recreational Department (The N.D. National Heritage Inventory).

Site conditions were evaluated during on-site visits in May of 2009 by Heather M. Jandt, Jaimee L. Meduna, and Ryan J. Kalvoda of Keitu. The project area was walked or via ATV to examine and determine the occurrence or nonoccurrence of migratory birds and active nests.

The surveys were conducted along the 17-mile proposed pipeline route in Mountrail County. Keitu surveyors conducted a thorough inspection within the 100 foot corridor (40 feet on either side of the proposed right-of-ways), beginning at the Robinson Lake Processing Plant and

terminating at the Nexen Crude Oil Terminal south of Stanley, ND. The survey corridor was extended in PLOT land and wetland areas.

Field data was collected with a Trimble GEOXT 2005 Series handheld GPS and photographs were taken along the entire length of the proposed route. The corridor boundaries were measured, identified, and recorded with the handheld GPS. Migratory birds and nest sites were also identified, measured, and mapped with data from the Trimble GPS into ESRI ArcGIS.

Analysis within the corridor included a complete inspection for migratory birds and active nesting sites. The survey area was expanded when nearby additional areas may be impacted by construction activity. Migratory bird species were identified in the field and mapped. Any unknown species were later identified using state-wide, literature, personal communications, and knowledge of species and species habitat were used to make a justified determination on the potential effects that may occur from the Project.

#### 4.0 MIGRATORY BIRD SPECIES

Common bird species that were identified during the field assessment consisted of blue-winged teals, Canada goose, horned grebe, mallards, northern shoveler, ring-billed gulls, upland sandpiper, Wilson’s phalarope, barn swallow, clay-colored sparrow, mourning dove, Brewer’s blackbirds, red-winged blackbird, yellow-headed blackbird.

| <b>TABLE 4A</b>                                    |                                    |                    |                        |                                             |
|----------------------------------------------------|------------------------------------|--------------------|------------------------|---------------------------------------------|
| <b>BIRD SPECIES IDENTIFIED DURING FIELD SURVEY</b> |                                    |                    |                        |                                             |
| <b>Common Name</b>                                 | <b>Scientific Name</b>             | <b>CWCS Status</b> | <b>Nest(s) Located</b> | <b>Comments</b>                             |
| <b>Cranes, Rails</b>                               |                                    |                    |                        |                                             |
| Coot: American                                     | <i>Fulica americana</i>            |                    | NO                     |                                             |
| <b>Ducks, Geese, Swans</b>                         |                                    |                    |                        |                                             |
| Canvasback                                         | <i>Aythya valisineria</i>          | Level II           | NO                     |                                             |
| Goose: Canada                                      | <i>Branta canadensis</i>           |                    | NO                     |                                             |
| Mallard                                            | <i>Anas platyrhynchos</i>          |                    | YES                    | All mallard nests were located on plot land |
| Northern Shoveler                                  | <i>Anas clypeata</i>               |                    | NO                     |                                             |
| Redhead                                            | <i>Aythya americana</i>            | Level II           | NO                     |                                             |
| Teal: Blue-Winged                                  | <i>Anas discors</i>                |                    | NO                     | Dead male observed                          |
| <b>Grebes</b>                                      |                                    |                    |                        |                                             |
| Grebe: Horned                                      | <i>Podiceps auritus</i>            | Level I            | NO                     |                                             |
| <b>Gulls, Shorebirds, Terns</b>                    |                                    |                    |                        |                                             |
| Godwit: Marbled                                    | <i>Limosa fedoa</i>                | Level I            | NO                     |                                             |
| Gull: Ring-billed                                  | <i>Larus delawarensis</i>          |                    | NO                     |                                             |
| Killdeer                                           | <i>Charadrius vociferus</i>        |                    | YES                    | Two nests were observed on the right-of-way |
| Phalarope: Wilson’s                                | <i>Phalaropus tricolor</i>         | Level I            | NO                     |                                             |
| Sandpiper: Upland                                  | <i>Bartramia longicauda</i>        | Level I            | NO                     |                                             |
| Snipe: Common                                      | <i>Gallinago gallinago</i>         |                    | YES                    | Nest located by a wetland near pipeline     |
| Willet                                             | <i>Catoptrophorus semipalmatus</i> | Level I            | NO                     |                                             |

**TABLE 4A (CONTINUED)**  
**BIRD SPECIES IDENTIFIED DURING FIELD SURVEY**

| Common Name                                                                                                                                                                                                                                                                                                                     | Scientific Name                      | CWCS Status | Nest(s) Located | Comments             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|-------------|-----------------|----------------------|
| <b>Eagles, Falcons, Hawks, Vultures</b>                                                                                                                                                                                                                                                                                         |                                      |             |                 |                      |
| Northern Harrier                                                                                                                                                                                                                                                                                                                | <i>Circus cyaneus</i>                | Level II    | NO              | In Flight            |
| <b>Grouse, Partridges, Pheasants</b>                                                                                                                                                                                                                                                                                            |                                      |             |                 |                      |
| Grouse: Sharp-Tailed                                                                                                                                                                                                                                                                                                            | <i>Tympanuchus phasianellus</i>      | Level II    | NO              |                      |
| Pheasant: Ring-Necked                                                                                                                                                                                                                                                                                                           | <i>Phasianus colchicus</i>           |             | NO              |                      |
| <b>Blackbirds, Meadowlarks, Orioles</b>                                                                                                                                                                                                                                                                                         |                                      |             |                 |                      |
| Blackbird: Brewer's                                                                                                                                                                                                                                                                                                             | <i>Euphagus cyanocephalus</i>        |             | NO              |                      |
| Blackbird: Red-Winged                                                                                                                                                                                                                                                                                                           | <i>Agelaius phoeniceus</i>           |             | NO              | Observed in wetlands |
| Blackbird: Yellow-Headed                                                                                                                                                                                                                                                                                                        | <i>Xanthocephalus xanthocephalus</i> |             | NO              | Observed in wetlands |
| Bobolink                                                                                                                                                                                                                                                                                                                        | <i>Dolichonyx oryzivorus</i>         | Level II    | NO              | Dead male observed   |
| Meadowlark: Western                                                                                                                                                                                                                                                                                                             | <i>Sturnella neglecta</i>            |             | NO              |                      |
| <b>Buntings, Longspurs, Sparrows</b>                                                                                                                                                                                                                                                                                            |                                      |             |                 |                      |
| Junco: Dark-Eyed                                                                                                                                                                                                                                                                                                                | <i>Junco hyemalis</i>                |             | NO              |                      |
| Sparrow: Clay-Colored                                                                                                                                                                                                                                                                                                           | <i>Spizella pallida</i>              |             | NO              |                      |
| Sparrow: Savannah                                                                                                                                                                                                                                                                                                               | <i>Ammodramus sandwichensis</i>      |             | NO              |                      |
| <b>Doves</b>                                                                                                                                                                                                                                                                                                                    |                                      |             |                 |                      |
| Dove: Mourning                                                                                                                                                                                                                                                                                                                  | <i>Zenaida macroura</i>              |             | NO              |                      |
| <b>Flycatchers</b>                                                                                                                                                                                                                                                                                                              |                                      |             |                 |                      |
| Kingbird: Eastern                                                                                                                                                                                                                                                                                                               | <i>Tyrannus tyrannus</i>             |             | NO              |                      |
| <b>Larks, Swallows</b>                                                                                                                                                                                                                                                                                                          |                                      |             |                 |                      |
| Swallow: Barn                                                                                                                                                                                                                                                                                                                   | <i>Hirundo rustica</i>               |             | NO              |                      |
| <b>Vireos, Warblers</b>                                                                                                                                                                                                                                                                                                         |                                      |             |                 |                      |
| Warbler: Yellow                                                                                                                                                                                                                                                                                                                 | <i>Dendroica petechia</i>            |             | NO              |                      |
| *Comprehensive Wildlife Conservation Strategy (CWCS) Status<br>*Level I = Species in greatest need of conservation<br>*Level II = Species in need of conservation, but have had support from other wildlife programs.<br>*Level III = Species in moderate need of conservation, but that are on the edge of their range in N.D. |                                      |             |                 |                      |

## 5.0 ROUTE DESCRIPTION

The survey corridor exists in prairie pothole region and consists of predominantly crop and rangeland with the exception of two Conservation PLOTS (Private Land Open to Sportsmen). PLOT land exists in Section 11 and Section 26 of Township 154 North and Range 91 West. Numerous wetlands occur within and adjacent to the survey corridor, with boundaries that extend over the pipeline right-of-way. Prairie potholes and upland habitats are important for breeding waterfowl.

### Exhibit 5a



Exhibit 5a displays a wetland (facing north) that lies directly on the pipeline right-of-way. The wetland extends further west and was observed to have red-winged black birds and blue-winged teals occupying the area.

### Exhibit 5b



Exhibit 5b displays an expired, male blue-winged teal that was located on the western boundary of the wetland displayed in Exhibit 5a. Blue-winged teals were found commonly found in wetlands within the survey corridor. However, no active nests were located.

### Exhibit 5c



Exhibit 5c displays another wetland (facing north) that extends over the pipeline right-of-way. Many of the wetlands found on the right-of-way were observed to have birds occupying the area.

### Exhibit 5d



Exhibit 5d displays Wilson's phalaropes wading in the wetland presented in Exhibit 5c.

Wilson's phalaropes and willets were commonly observed in wetlands that occurred on the right-of-way (Exhibit 5e). However, no active nests were located.

## Exhibit 5e



### 6.0 NESTS

| <b>TABLE 6A</b>                                 |                          |                            |                               |                                                                   |
|-------------------------------------------------|--------------------------|----------------------------|-------------------------------|-------------------------------------------------------------------|
| <b>ACTIVE NESTS LOCATED DURING FIELD SURVEY</b> |                          |                            |                               |                                                                   |
| <b>Species</b>                                  | <b>Legal Description</b> | <b>Coordinates</b>         | <b>Distance from Pipeline</b> | <b>Comments</b>                                                   |
| Mallard                                         | Sec 26 T154N R91W        | 48.130019N<br>-102.351952W | 61 feet                       | Mallard nest was located in plot land                             |
| Killdeer                                        | Sec 23 T154N R91W        | 48.145091N<br>-102.352153W | 25 feet                       | Killdeer nest was located directly on right-of-way                |
| Mallard                                         | Sec 11 T154N R91W        | 48.171752N<br>-102.350867W | 77 feet                       | Mallard nest was located in plot land                             |
| Mallard                                         | Sec 11 T154N R91W        | 48.174093N<br>-102.352090W | 110 feet                      | Mallard nest was located in plot land                             |
| Common Snipe                                    | Sec 35 T155N R91W        | 48.207622N<br>-102.352602W | 57 feet                       | Snipe nest was located around edge of a wetland                   |
| Killdeer                                        | Sec 35 T155N R91W        | 48.209190N<br>-102.352220W | 45 feet                       | Killdeer nest was located along the east side of the right-of-way |

\*Distance from pipeline is in approximate feet.

## Exhibit 6a



Exhibit 6a displays an active mallard nest with 9 eggs that was located while walking in PLOT land in Section 26, Township 154N and Range 91W. The nest was approximately 61 feet away from the proposed pipeline. An inactive nest was also located in the area approximately 960 feet northeast from the nest displayed in exhibit 6a. Egg shell remains were found in the nest. See Figure 6 – Mallard Nests Map.

## Exhibit 6b



An active killdeer nest with 4 eggs that was observed along the pipeline right-of-way in Section 23, Township 154N and Range 91W (Exhibit 6b). The nest was approximately 25 feet away from the proposed pipeline (Figure 7 – Killdeer Nest Map). Since the nest is not easily visible and located directly on the right-of-way, the Keitu crew placed a labeled flag approximately couple feet from the nest to attempt to minimize any impacts to the nest.

**Exhibit 6c**



Exhibit 6c displays a killdeer performing the broken-wing act in attempt to lead disturbance away from the nest (Exhibit 6b).

**Exhibit 6d**



An active mallard nest with 10 eggs that was located while walking in PLOT land in Section 11, Township 154N and Range 91W (Exhibit 6d). The nest was approximately 77 feet away from the proposed pipeline. See Figure 8 – Mallard Nests Map.

### Exhibit 6e



Exhibit 6e displays another active mallard nest with 9 eggs that was located while walking in PLOT land in Section 11, Township 154N and Range 91W. The nest was approximately 110 feet away from the proposed pipeline. See Figure 8 – Mallard Nests Map.

### Exhibit 6f



An active common snipe nest with 4 eggs that was located while walking around a wetland in Section 35, Township 155N and Range 91W (Exhibit 6f). The nest was approximately 57 feet

away from the proposed pipeline (See Figure 9 – Common Snipe & Killdeer Nests Map). The bird was flushed up approximately a foot away from the nest.

### Exhibit 6g



Exhibit 6g displays an active killdeer nest with 4 eggs that was located along the edge of the pipeline right-of-way in Section 35, Township 155N and Range 91W. The nest was approximately 45 feet away from the proposed pipeline. See Figure 9 – Common Snipe & Killdeer Nests Map. Since the nest is not easily visible and located along side the right-of-way, the Keitu crew placed a labeled flag approximately couple feet from the nest to attempt to minimize any impacts to the nest.

### Exhibit 6h



Exhibit 6h displays an aggressive killdeer attempting to lead disturbance away from the nest found in Exhibit 6g.

## 7.0 SUMMARY

The survey corridor does support a variety of migratory birds and active nesting sites. Construction activity is likely to disturb the observed nesting areas. The U.S Fish and Wildlife Service specified their concern of any disruption of waterfowl or wildlife during the breeding season of February 1<sup>st</sup> to July 15<sup>th</sup>. Under the Migratory Bird Treaty Act it is illegal to harm, kill or possess migratory birds and active nests without a permit. Whiting Oil and Gas Corporation should consult with the FWS on construction activities during the breeding season to address unavoidable migratory bird nesting conflicts. Implementation of best management practices during construction activity will assist in minimizing disturbance to any wildlife species inhabiting the area during this time.

## 8.0 REFERENCES CITED

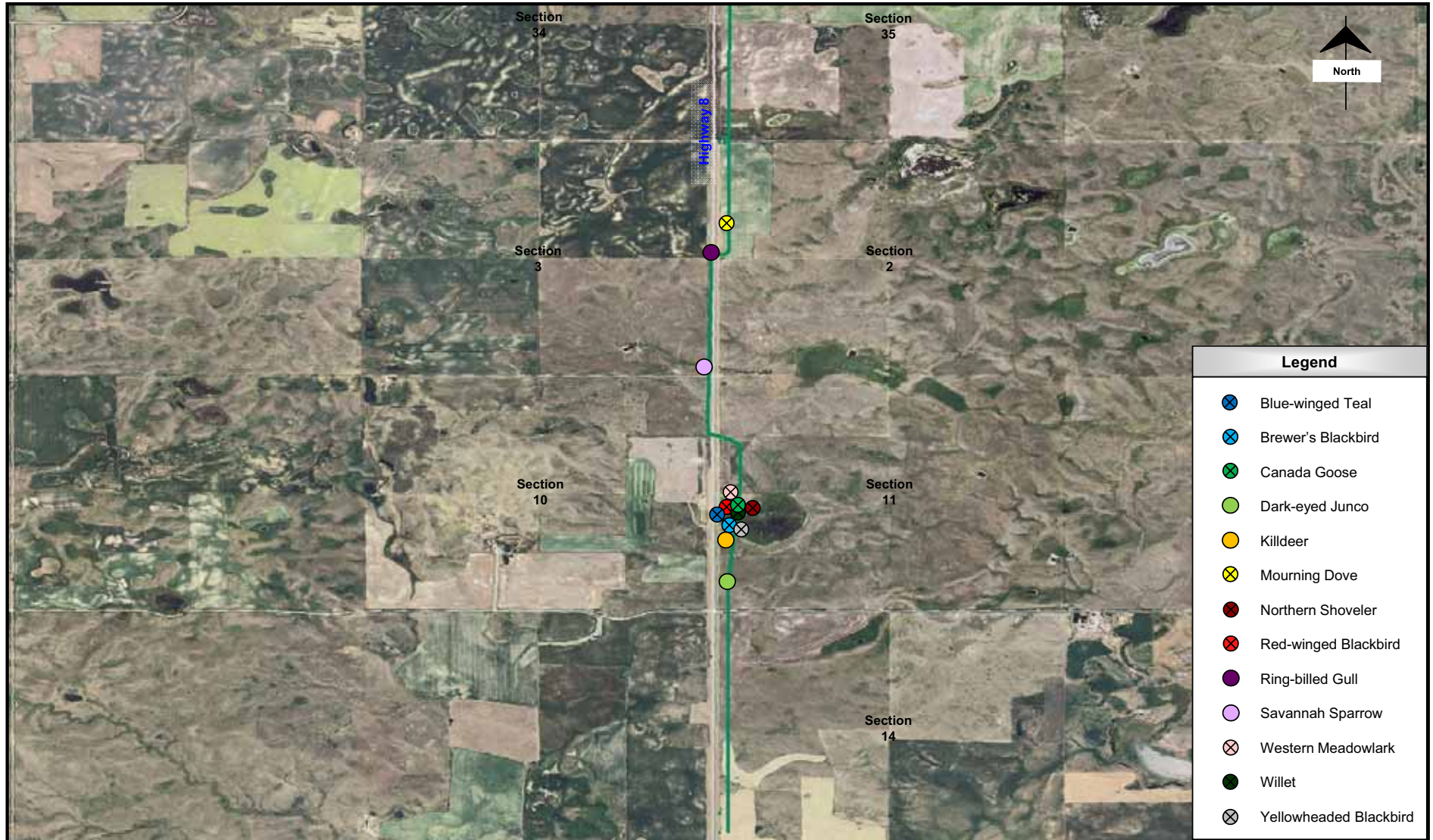
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## Robinson Lake Pipeline Nesting Migratory Bird Assessment

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**FIGURE 1 – BIRD SPECIES MAP**



2610 Old Red Trail Ste C PO Box 98  
 Mandan ND 58554-0098  
 (701) 667-1800 fax (701) 667-1802

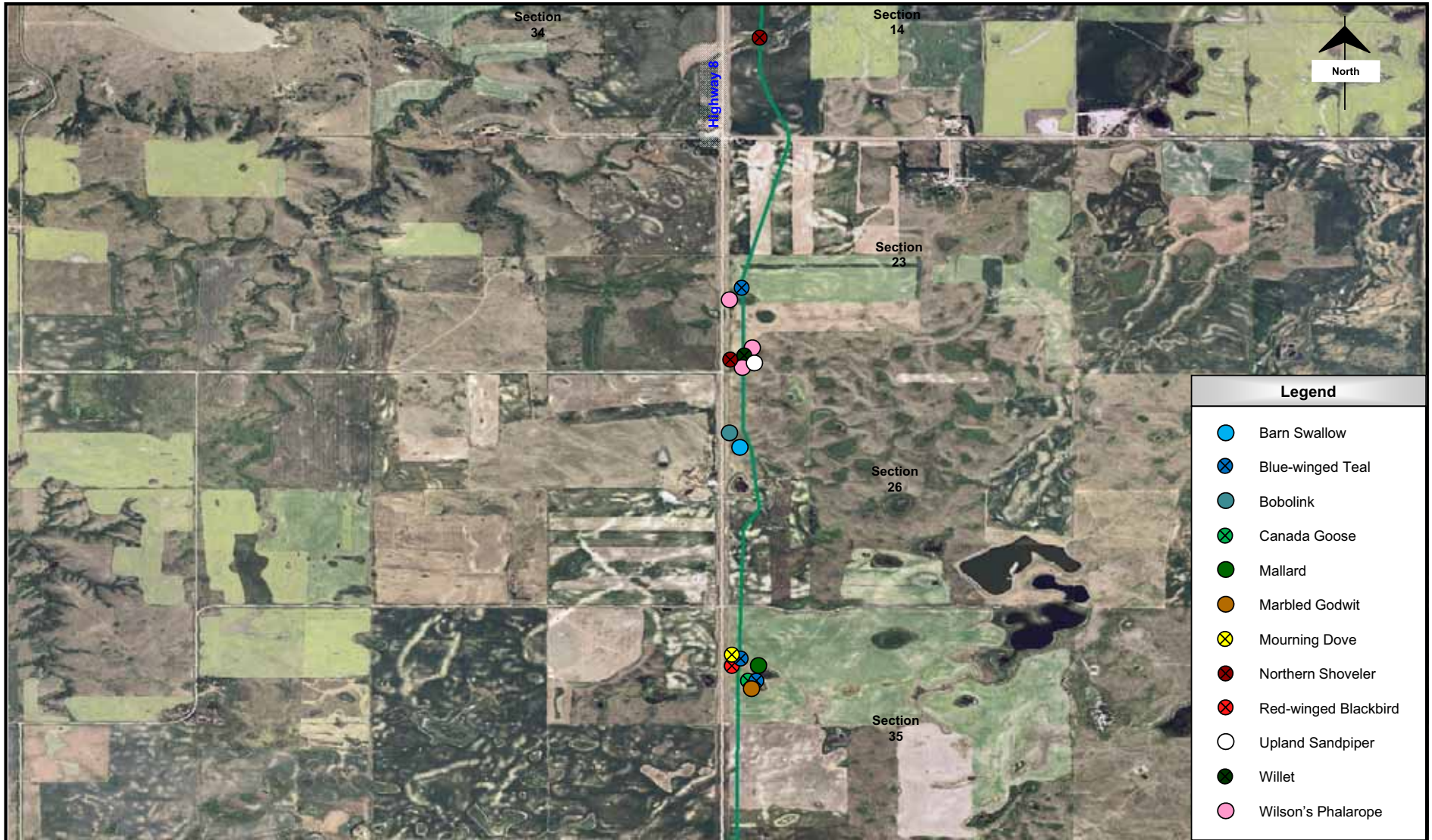
Date: 10-June-2009

Prepared By: J. Meduna

Reviewed By: K. Spilman

**Figure 1 – Bird Species**  
**Robinson Lake Pipeline Projects**  
 Mountrail County  
 T153N R91W Sections 2,3,10,11,14  
 T154N R91W Sections 34 and 35  
 Not to Scale Revision: 1.0

**FIGURE 2 – BIRD SPECIES MAP**



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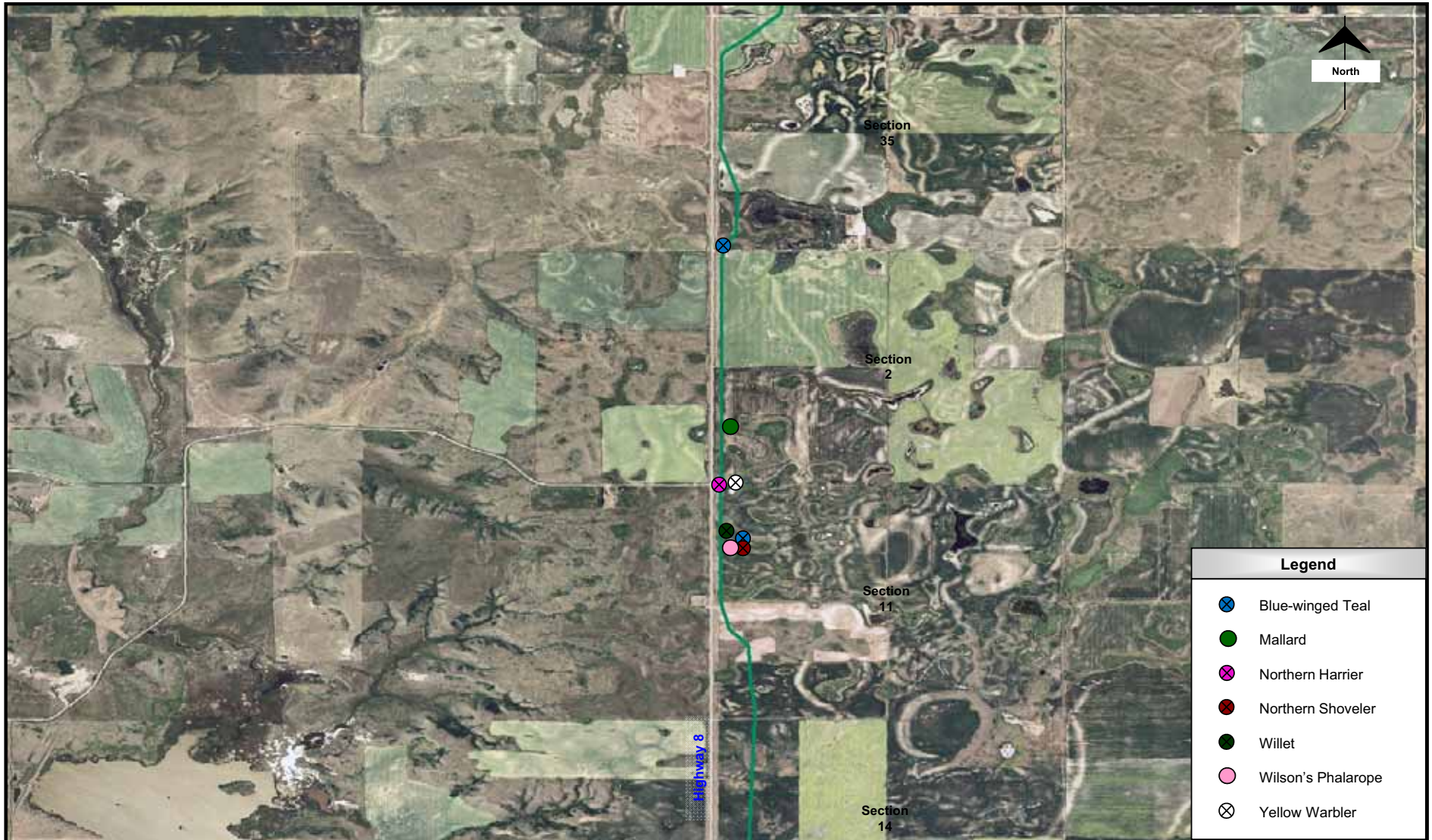
Date: 10-June-2009

Prepared By: J. Meduna

Reviewed By: K. Spilman

Figure 2 – Bird Species  
 Robinson Lake Pipeline Projects  
 Mountrail County  
 T154N R91W Sections 14, 23, 26 and 35  
 Not to Scale Revision: 1.0

**FIGURE 3 – BIRD SPECIES MAP**



| Legend |                    |
|--------|--------------------|
|        | Blue-winged Teal   |
|        | Mallard            |
|        | Northern Harrier   |
|        | Northern Shoveler  |
|        | Willet             |
|        | Wilson's Phalarope |
|        | Yellow Warbler     |

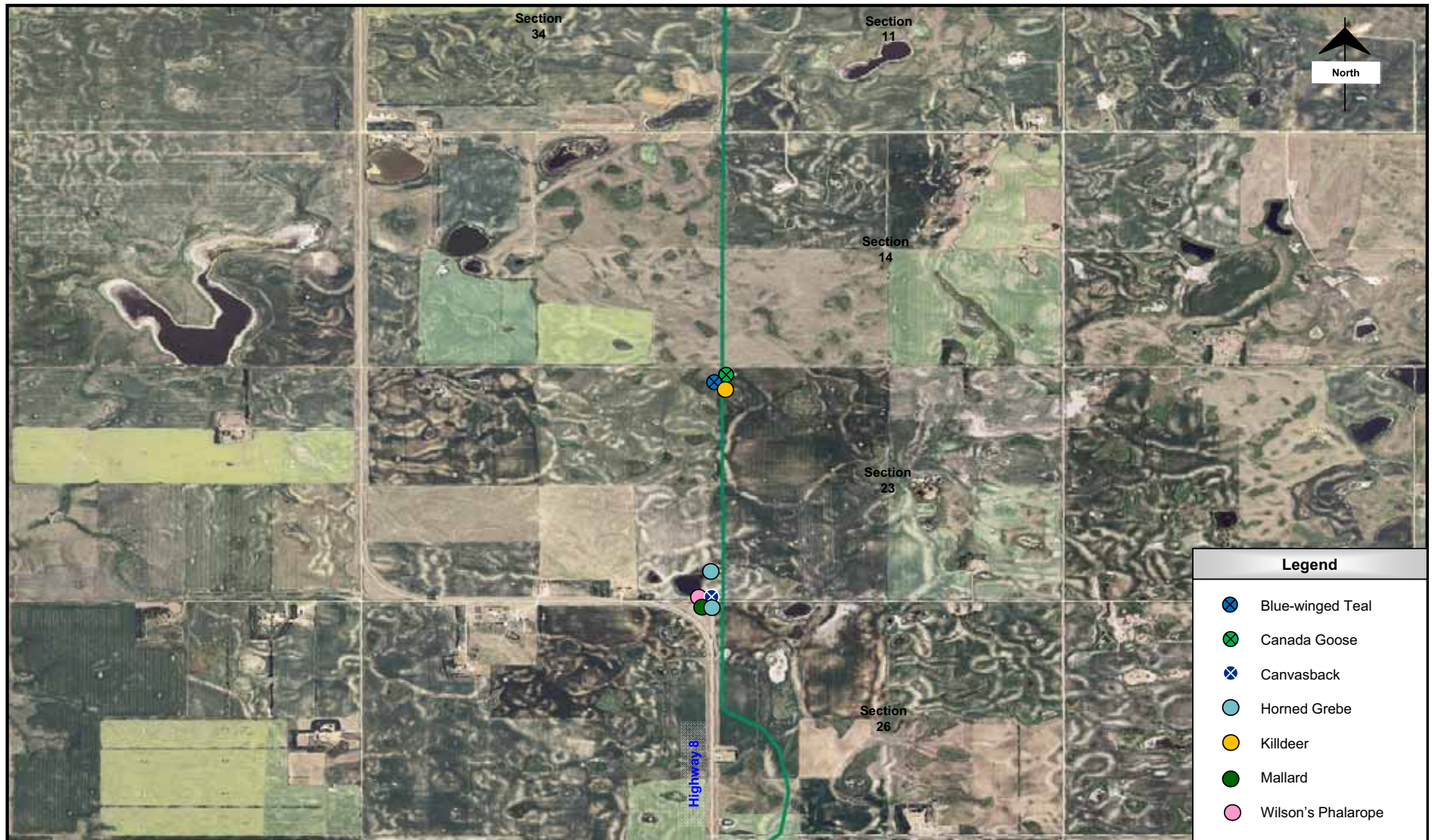


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|              |              |
|--------------|--------------|
| Date:        | 10-June-2009 |
| Prepared By: | J. Meduna    |
| Reviewed By: | K. Spilman   |

**Figure 3 – Bird Species**  
**Robinson Lake Pipeline Projects**  
 Mountrail County  
 T154N R91W Sections 2,11 and 14  
 T155N R91W Sections 35  
 Not to Scale Revision: 1.0

**FIGURE 4 – BIRD SPECIES MAP**



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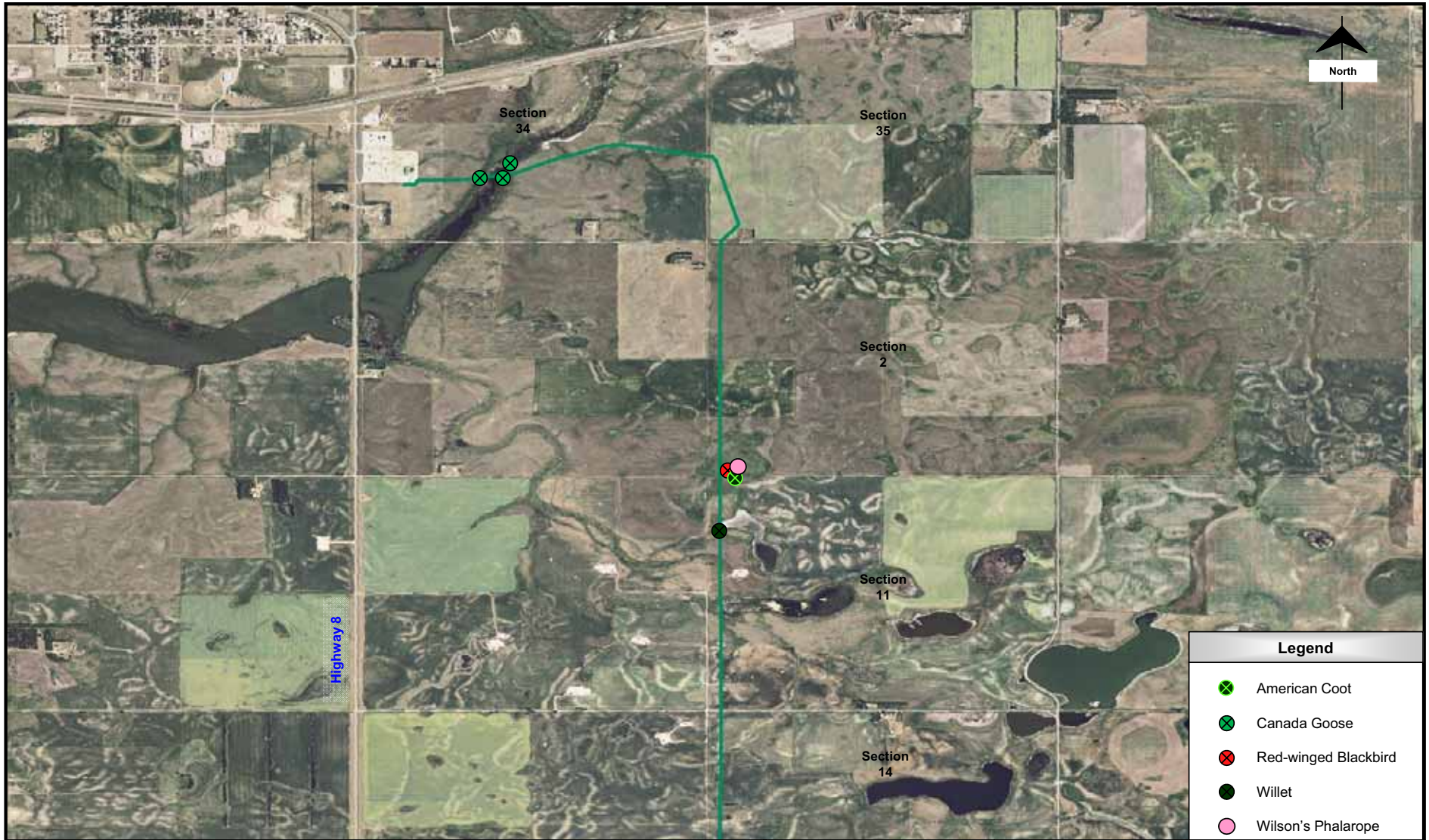
Date: 10-June-2009

Prepared By: J. Meduna

Reviewed By: K. Spilman

Figure 4 – Bird Species  
 Robinson Lake Pipeline Projects  
 Mountrail County  
 T155N R91W Sections 11, 14, 23 and 26  
 Not to Scale Revision: 1.0

**FIGURE 5 – BIRD SPECIES MAP**



| Legend |                      |
|--------|----------------------|
|        | American Coot        |
|        | Canada Goose         |
|        | Red-winged Blackbird |
|        | Willet               |
|        | Wilson's Phalarope   |

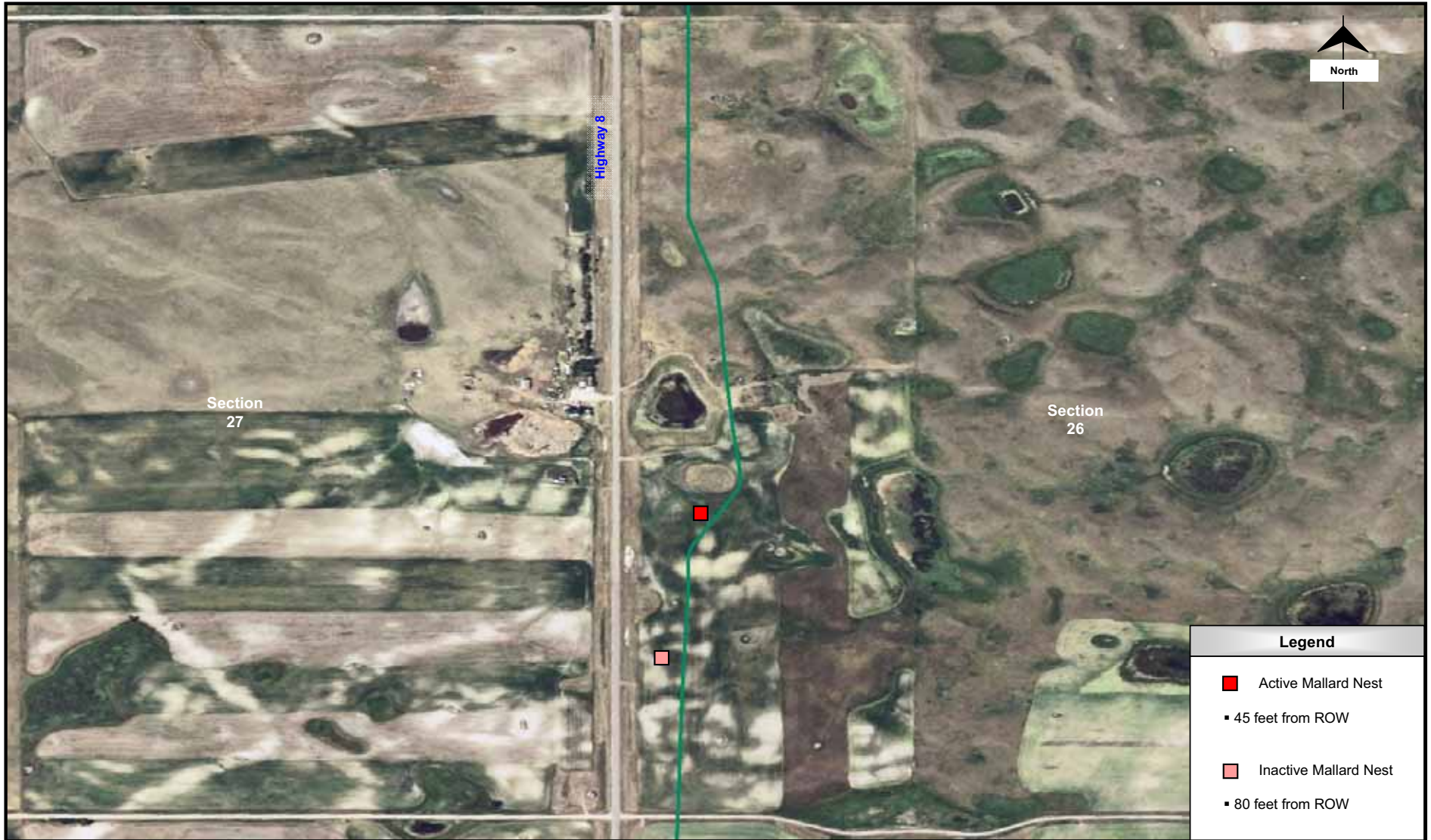


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 (701) 667-1800 fax (701) 667-1802

|              |              |
|--------------|--------------|
| Date:        | 10-June-2009 |
| Prepared By: | J. Meduna    |
| Reviewed By: | K. Spilman   |

**Figure 5 – Bird Species**  
**Robinson Lake Pipeline Projects**  
 Mountrail County  
 T155N R91W Sections 2 and 11  
 T156N R91W Sections 26, 27 and 35  
 Not to Scale Revision: 1.0

**FIGURE 6 – MALLARD NESTS MAP**



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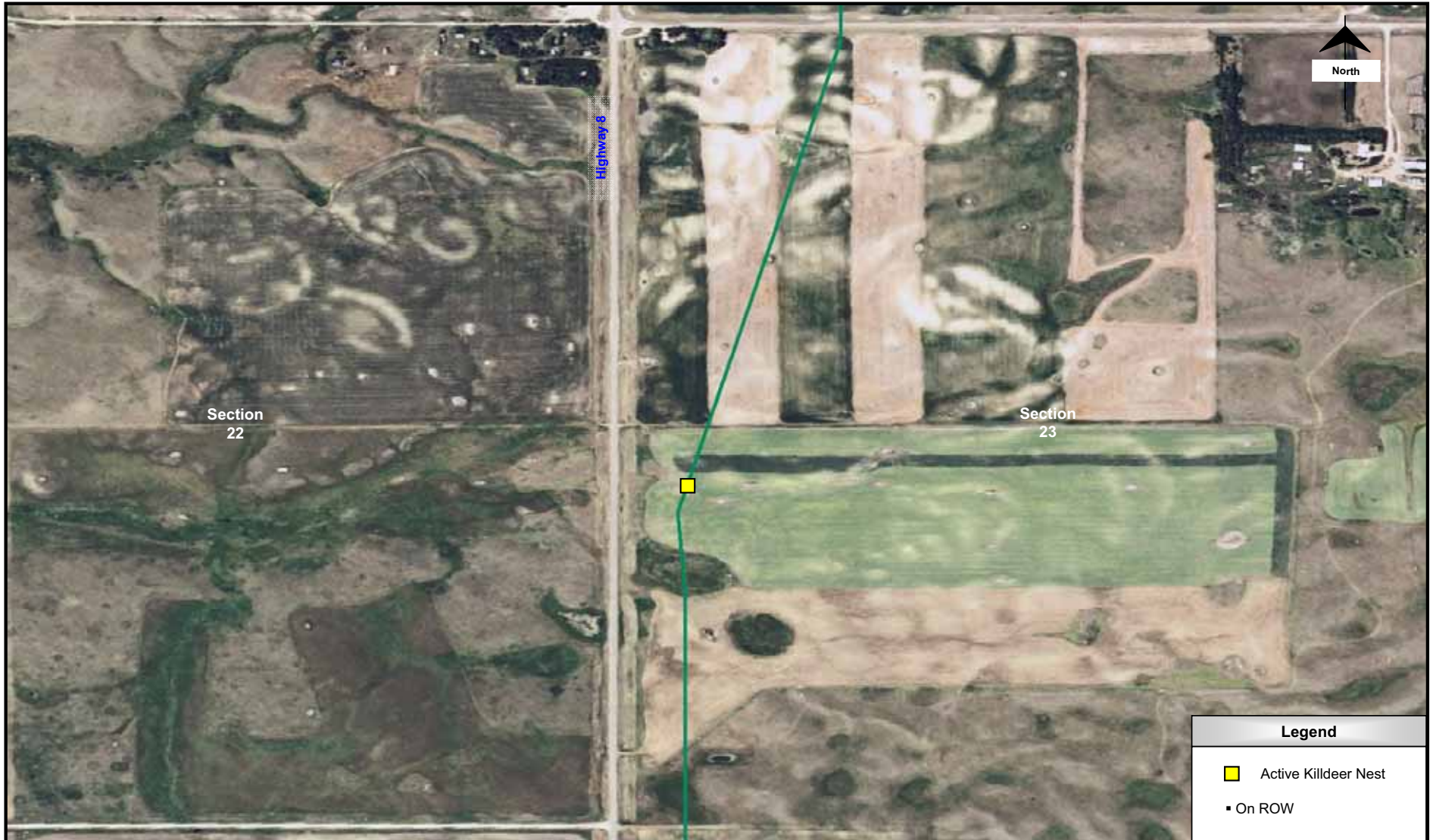
Date: 10-June-2009



Prepared By: J. Meduna

Reviewed By: K. Spilman

**Figure 6 – Mallard Nests**  
**Robinson Lake Pipeline Projects**  
 Mountrail County  
 T154N R91W Sections 26 and 27  
 Not to Scale Revision: 1.0

**FIGURE 7 – KILLDEER NEST MAP**



| Legend                                                                                |                      |
|---------------------------------------------------------------------------------------|----------------------|
|  | Active Killdeer Nest |
|  | On ROW               |

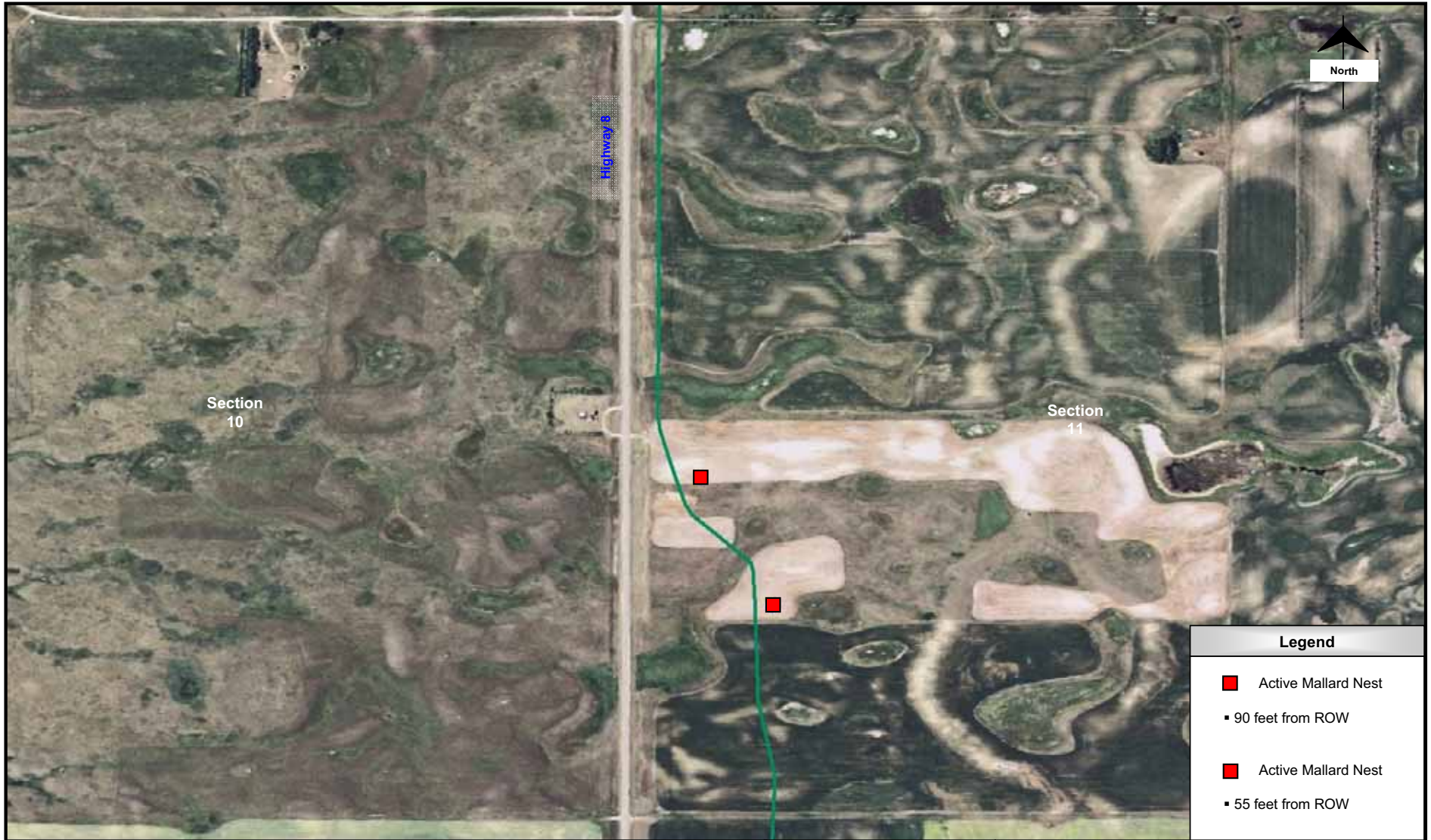


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 (701) 667-1800 fax (701) 667-1802

|              |              |
|--------------|--------------|
| Date:        | 10-June-2009 |
| Prepared By: | J. Meduna    |
| Reviewed By: | K. Spilman   |

Figure 7 – Killdeer Nest  
 Robinson Lake Pipeline Projects  
 Mountrail County  
 T154N R91W Sections 22 and 23  
 Not to Scale Revision: 1.0

**FIGURE 8 – MALLARD NESTS MAP**



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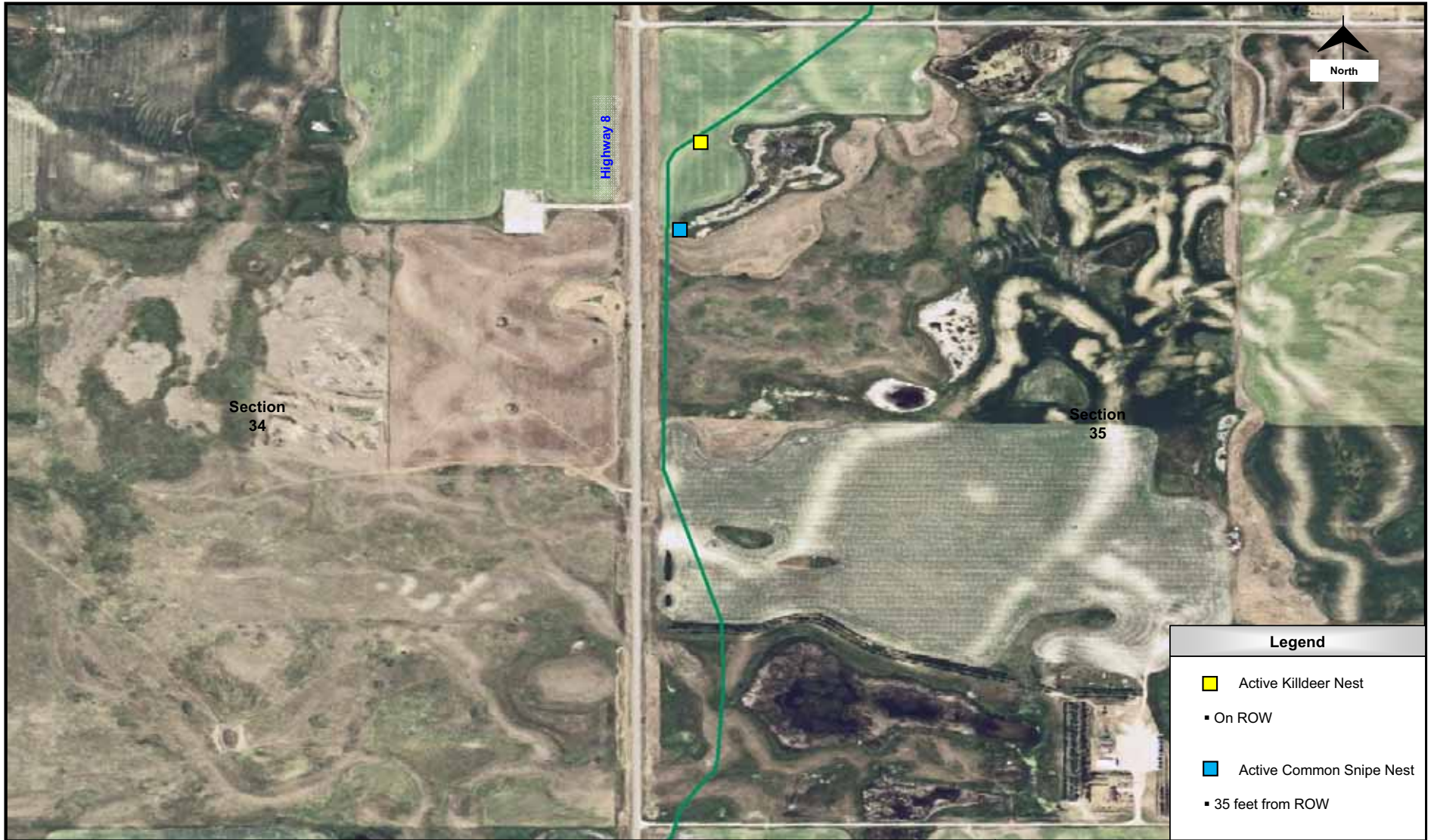
Date: 10-June-2009

Prepared By: J. Meduna

Reviewed By: K. Spilman

**Figure 8 – Mallard Nests**  
**Robinson Lake Pipeline Projects**  
 Mountrail County  
 T154N R91W Sections 10 and 11  
 Not to Scale Revision: 1.0

**FIGURE 9 – COMMON SNIPE & KILLDEER NESTS MAP**



2610 Old Red Trail Ste C PO Box 98  
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 (701) 667-1800 fax (701) 667-1802

Date: 10-June-2009

Prepared By: J. Meduna

Reviewed By: K. Spilman

**Figure 9 –Common Snipe & Killdeer Nests**  
**Robinson Lake Pipeline Projects**  
 Mountrail County  
 T155N R91W Sections 34 and 35  
 Not to Scale Revision: 1.0