

CONFIDENTIAL

Curly Youpee, Chairman Page 2

SHPOs. No cultural resources have been identified within the corridor proper. Including standing structures such as residential houses and business there are 117 cultural resources; 16 prehistoric sites and 24 prehistoric site leads within the one mile wide corridor in North Dakota. In South Dakota there are 273 resources including 10 prehistoric sites and three prehistoric site leads. I have enclosed tables listing these sites. We are about to begin the field inventory of selected portions of the proposed pipeline to locate, identify and record cultural resources in the project's area of potential effect.

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I can be reached at any time at the Bismarck, North Dakota address and phone number on this letterhead. I look forward to hearing from you.

Sincerely,

Ed Stine
Principal Investigator

enclosures

CONFIDENTIAL

Metcalf Archaeological Consultants, Inc.

June 13, 2006

Mr. Russell Eagle Bear
Tribal Historic Preservation Officer
Rosebud Sioux Tribe
P.O. Box 658
Rosebud, South Dakota 57570

RE: TransCanada - Keystone Pipeline

Dear Mr. Eagle Bear:

TransCanada is proposing to construct a 30" crude oil pipeline, the Keystone Pipeline that crosses through eastern North Dakota and South Dakota. As planned the pipeline will have a 125 foot wide construction corridor with extra workspace needed at road and stream crossings. The line enters North Dakota from Canada at the Pembina/Cavalier County line and continues south through both North and South Dakota entering Nebraska immediately south of the community of Yankton. This letter is in reference to the portion of the line in North and South Dakota. I have enclosed maps showing the general route of the pipeline. The pipeline will be constructed in a new pipeline right-of-way that is remote from any existing utilities.

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CONFIDENTIAL

Eagle Bear, Tribal Historic Preservation Officer Page 2

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Sincerely,

Ed Stine
Principal Investigator

enclosures

cc: Rodney Bordeaux, President
Rosebud Sioux Tribe
P.O. Box 430
Rosebud, South Dakota 57570

CONFIDENTIAL

Metcalf Archaeological Consultants, Inc.

June 13, 2006

Ms. Cecelia Fire Thunder, President
Oglala Sioux Tribe
P.O. Box 2070
Pine Ridge, South Dakota 57770

RE: TransCanada - Keystone Pipeline

Dear Ms. Fire Thunder:

TransCanada is proposing to construct a 30" crude oil pipeline, the Keystone Pipeline that crosses through eastern North Dakota and South Dakota. As planned the pipeline will have a 125 foot wide construction corridor with extra workspace needed at road and stream crossings. The line enters North Dakota from Canada at the Pembina/Cavalier County line and continues south through both North and South Dakota entering Nebraska immediately south of the community of Yankton. This letter is in reference to the portion of the line in North and South Dakota. I have enclosed maps showing the general route of the pipeline. The pipeline will be constructed in a new pipeline right-of-way that is remote from any existing utilities.

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Fire Thunder, Oglala Sioux Tribe Page 2

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Sincerely,

Ed Stine
Principal Investigator

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CONFIDENTIAL

Metcalf Archaeological Consultants, Inc.

June 13, 2006

Mr. George Reed, Chairman
Crow Cultural Committee
P.O. Box 850
Crow Agency, Montana 59022

RE: TransCanada - Keystone Pipeline

Dear Mr. George Reed:

TransCanada is proposing to construct a 30" crude oil pipeline, the Keystone Pipeline that crosses through eastern North Dakota and South Dakota. As planned the pipeline will have a 125 foot wide construction corridor with extra workspace needed at road and stream crossings. The line enters North Dakota from Canada at the Pembina/Cavalier County line and continues south through both North and South Dakota entering Nebraska immediately south of the community of Yankton. This letter is in reference to the portion of the line in North and South Dakota. I have enclosed maps showing the general route of the pipeline. The pipeline will be constructed in a new pipeline right-of-way that is remote from any existing utilities.

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George Reed, Chairman Page 2

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Ed Stine
Principal Investigator

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Metcalf Archaeological Consultants, Inc.

June 13, 2006

Mr. Brady Grant
Chairman's Assistant, Natural Resources Director
Tribal Historic Preservation Officer
Turtle Mountain Band of Chippewa Indians
P.O. Box 900
Belcourt, North Dakota 58316

RE: TransCanada - Keystone Pipeline

Dear Mr. Brady Grant:

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Grant, Tribal Historic Preservation Officer Page 2

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Sincerely,

Ed Stine
Principal Investigator

enclosures

cc: Kenneth Davis, Chairman
Turtle Mountain Band of Chippewa Indians
P.O. Box 900
Belcourt, North Dakota 58316

CONFIDENTIAL

Metcalf Archaeological Consultants, Inc.

June 13, 2006

Mr. Calvin Grinnell
Tribal Historian
Mandan, Hidatsa, Arikara Nation
220 8th Avenue North
New Town, North Dakota 58763

RE: TransCanada - Keystone Pipeline

Dear Mr. Calvin Grinnell:

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Grinnell, Tribal Historian, Page 2

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Sincerely,

Ed Stine
Principal Investigator

enclosures

cc: Tex Hall, Chairman
Three Affiliated Tribes
404 Frontage Road
New Town, North Dakota 58763

CONFIDENTIAL

Metcalfe Archaeological Consultants, Inc.

June 13, 2006

Mr. Franky Jackson
Tribal Historic Preservation Officer
Sisseton-Wahpeton Oyate Planning and Development
Old Agency
P.O. Box 509
Sisseton, South Dakota 57262-0509

RE: TransCanada - Keystone Pipeline

Dear Mr. Jackson:

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Jackson, Tribal Historic Preservation Officer, Page 2

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Sincerely,

Ed Stine
Principal Investigator

enclosures

cc: Jerry Flute, Chairman
Sisseton-Wahpeton Oyate
P.O. Box 509
Agency Village, South Dakota 57262

CONFIDENTIAL

Metcalfe Archaeological Consultants, Inc.

June 13, 2006

Mr. Michael Jandreau, Chairman
Lower Brule Sioux Tribe
187 Oyate Circle
Lower Brule, South Dakota 57548

RE: TransCanada - Keystone Pipeline

Dear Mr. Jandreau:

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Jandreau, Chairman Page 2

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Ed Stine
Principal Investigator

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Metcalfe Archaeological Consultants, Inc.

June 13, 2006

Mr. Garrie Kills a Hundred
Flandreau Santee Sioux Tribe
P.O. Box 283
Flandrea, South Dakota

RE: TransCanada - Keystone Pipeline

Dear Mr. Kills a Hundred:

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Kills a Hundred, Flandreau Santee Sioux Tribe Page 2

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June 13, 2006

Mr. Albert M. LeBeau III
Tribal Historic Preservation Officer
Cheyenne River Sioux Tribe
P.O. Box 590
Eagle Butte, South Dakota 57625

RE: TransCanada - Keystone Pipeline

Dear Mr. Albert LeBeau III:

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LeBeau III, Tribal Historic Preservation Officer Page 2

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I can be reached at any time at the Bismarck, North Dakota address and phone number on this letterhead. I look forward to hearing from you.

Sincerely,

Ed Stine
Principal Investigator

enclosures

cc: Harold Frazier, Chairman
Cheyenne River Sioux Tribe
P.O. Box 590
Eagle Butte, South Dakota 57625

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Metcalf Archaeological Consultants, Inc.

June 13, 2006

Mr. Ambrose Little Ghost
Cultural Preservation Office
Spirit Lake Nation
P.O. Box 157
Fort Totten, North Dakota 58335-0157

RE: TransCanada - Keystone Pipeline

Dear Mr. Little Ghost:

TransCanada is proposing to construct a 30" crude oil pipeline, the Keystone Pipeline that crosses through eastern North Dakota and South Dakota. As planned the pipeline will have a 125 foot wide construction corridor with extra workspace needed at road and stream crossings. The line enters North Dakota from Canada at the Pembina/Cavalier County line and continues south through both North and South Dakota entering Nebraska immediately south of the community of Yankton. This letter is in reference to the portion of the line in North and South Dakota. I have enclosed maps showing the general route of the pipeline. The pipeline will be constructed in a new pipeline right-of-way that is remote from any existing utilities.

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Little Ghost, Cultural Preservation Office Page 2

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I can be reached at any time at the Bismarck, North Dakota address and phone number on this letterhead. I look forward to hearing from you.

Sincerely,

Ed Stine
Principal Investigator

enclosures

cc: Myra Pearson, Chairperson
Spirit Lake Tribe
P.O. Box 359
Fort Totten, North Dakota 58335

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Metcalf Archaeological Consultants, Inc.

June 13, 2006

Mr. Tim Mentz, Sr.
Tribal Historic Preservation Officer
Standing Rock Sioux Tribe
P.O. Box D
Fort Yates, North Dakota 58538

RE: TransCanada - Keystone Pipeline

Dear Mr. Mentz, Sr.:

TransCanada is proposing to construct a 30" crude oil pipeline, the Keystone Pipeline that crosses through eastern North Dakota and South Dakota. As planned the pipeline will have a 125 foot wide construction corridor with extra workspace needed at road and stream crossings. The line enters North Dakota from Canada at the Pembina/Cavalier County line and continues south through both North and South Dakota entering Nebraska immediately south of the community of Yankton. This letter is in reference to the portion of the line in North and South Dakota. I have enclosed maps showing the general route of the pipeline. The pipeline will be constructed in a new pipeline right-of-way that is remote from any existing utilities.

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Mentz, Sr., Tribal Historic Preservation Officer Page 2

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I can be reached at any time at the Bismarck, North Dakota address and phone number on this letterhead. I look forward to hearing from you.

Sincerely,

Ed Stine
Principal Investigator

enclosures

cc: Ron His Horse Is Thunder, Chairman
Standing Rock Sioux Tribe
P.O. Box D
Fort Yates, North Dakota 58538

CONFIDENTIAL

Metcalf Archaeological Consultants, Inc.

June 13, 2006

Mr. Dale Old Horn
Crow Tribal Historic Preservation Officer
P.O. Box 850
Crow Agency, Montana 59022

RE: TransCanada - Keystone Pipeline

Dear Mr. Old Horn:

TransCanada is proposing to construct a 30" crude oil pipeline, the Keystone Pipeline that crosses through eastern North Dakota and South Dakota. As planned the pipeline will have a 125 foot wide construction corridor with extra workspace needed at road and stream crossings. The line enters North Dakota from Canada at the Pembina/Cavalier County line and continues south through both North and South Dakota entering Nebraska immediately south of the community of Yankton. This letter is in reference to the portion of the line in North and South Dakota. I have enclosed maps showing the general route of the pipeline. The pipeline will be constructed in a new pipeline right-of-way that is remote from any existing utilities.

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Old Horn, Crow Tribal Historic Preservation Officer Page 2

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I can be reached at any time at the Bismarck, North Dakota address and phone number on this letterhead. I look forward to hearing from you.

Sincerely,

Ed Stine
Principal Investigator

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Metcalf Archaeological Consultants, Inc.

June 13, 2006

Mr. George Reed, Jr.
Cultural Resource Manager
Crow Tribe
P.O. Box 1094
Crow Agency, Montana 59022

RE: TransCanada - Keystone Pipeline

Dear Mr. Reed:

TransCanada is proposing to construct a 30" crude oil pipeline, the Keystone Pipeline that crosses through eastern North Dakota and South Dakota. As planned the pipeline will have a 125 foot wide construction corridor with extra workspace needed at road and stream crossings. The line enters North Dakota from Canada at the Pembina/Cavalier County line and continues south through both North and South Dakota entering Nebraska immediately south of the community of Yankton. This letter is in reference to the portion of the line in North and South Dakota. I have enclosed maps showing the general route of the pipeline. The pipeline will be constructed in a new pipeline right-of-way that is remote from any existing utilities.

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Reed, Jr., Cultural Resource Manager Page 2

structures such as residential houses and business there are 117 cultural resources; 16 prehistoric sites and 24 prehistoric site leads within the one mile wide corridor in North Dakota. In South Dakota there are 273 resources including 10 prehistoric sites and three prehistoric site leads. I have enclosed tables listing these sites. We are about to begin the field inventory of selected portions of the proposed pipeline to locate, identify and record cultural resources in the project's area of potential effect.

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Sincerely,

Ed Stine
Principal Investigator

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Metcalf Archaeological Consultants, Inc.

June 13, 2006

Ms. Faith Spotted Eagle
P.O. Box 667
Lake Andes, South Dakota 57356

RE: TransCanada - Keystone Pipeline

Dear Ms. Spotted Eagle:

TransCanada is proposing to construct a 30" crude oil pipeline, the Keystone Pipeline that crosses through eastern North Dakota and South Dakota. As planned the pipeline will have a 125 foot wide construction corridor with extra workspace needed at road and stream crossings. The line enters North Dakota from Canada at the Pembina/Cavalier County line and continues south through both North and South Dakota entering Nebraska immediately south of the community of Yankton. This letter is in reference to the portion of the line in North and South Dakota. I have enclosed maps showing the general route of the pipeline. The pipeline will be constructed in a new pipeline right-of-way that is remote from any existing utilities.

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Spotted Eagle, Page 2

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Sincerely,

Ed Stine
Principal Investigator

enclosures

CONFIDENTIAL

Metcalf Archaeological Consultants, Inc.

June 13, 2006

Ms. Pemina Yellow Bird
Three Affiliated Tribes
P.O. Box 98
Plaza, North Dakota 58771

RE: TransCanada - Keystone Pipeline

Dear Ms. Pemina Yellow Bird:

TransCanada is proposing to construct a 30" crude oil pipeline, the Keystone Pipeline that crosses through eastern North Dakota and South Dakota. As planned the pipeline will have a 125 foot wide construction corridor with extra workspace needed at road and stream crossings. The line enters North Dakota from Canada at the Pembina/Cavalier County line and continues south through both North and South Dakota entering Nebraska immediately south of the community of Yankton. This letter is in reference to the portion of the line in North and South Dakota. I have enclosed maps showing the general route of the pipeline. The pipeline will be constructed in a new pipeline right-of-way that is remote from any existing utilities.

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Yellow Bird, Three Affiliated Tribes, Page 2

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Sincerely,

Ed Stine
Principal Investigator

enclosures

cc: Tex Hall, Chairman
Three Affiliated Tribes
404 Frontage Road
New Town, North Dakota 58763



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LIST OF TRIBES CONTACTED BY ARG FOR THE KEYSTONE PIPELINE PROJECT IN ILLINOIS, MISSOURI AND NEBRASKA

ILLINOIS:

Peoria Tribe of Indians of Oklahoma

Ms. Charla K. Reeves

Peoria Tribe of Indians of Oklahoma

P.O. Box 1527

Miami, OK 74355

918-540-2535 x20

918-540-2538 fax

MISSOURI:

Iowa Tribe of Kansas and Nebraska

Mr. Patt Murphy, NAGPRA Representative

Iowa Tribe of Kansas & Nebraska

206 South Buckeye Avenue

Abilene, Kansas 67410

785/263-0090 (phone)

785/263-7453 (fax)

indart@access-one.com

Iowa Tribe of Oklahoma

E. Bernadette Huber, Chair

Ext. 323

R.R. 1, Box 721

Perkins, Oklahoma 74059-9599

405/547-2948, ext. 243 (phone for Chair)

405/547-2402 (phone, general)

405/547-5294 (fax)

Sac and Fox of the Missouri in Kansas and Nebraska

Ms. Deanne Bahr, NAGPRA

deannbahr@yahoo.com

Edmore Green

egreen@sacandfoxcasino.com

305 North Main

Reserve, Kansas 66434

785/742-7471 (phone)

785/742-3785 (fax)

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Sac and Fox Nation of Oklahoma

Ms. Sandra Kaye Massey, Cultural Resources
918/968-1920

wahnesh@yahoo.com

Mr. A. C. Wilson, NAGPRA

Route 2, Box 246

Stroud, Oklahoma 74079

918/968-3526 (phone)

918/968-3887 (fax)

Sac and Fox Tribe of the Mississippi in Iowa

Mr. Johnathan Buffalo, Historic Preservation Coordinator

jlbuffalo@meskwaki.org

349 Meskwaki Road

Tama, Iowa 52339

641/484-4678 (phone)

641/484-5424 (fax)

Choctaw Nation of Oklahoma

Mr. Terry Cole, NAGPRA

P.O. Drawer 1210

16th & Locust Street

Durant, Oklahoma 74702

580/924-8280 (phone)

580/924-1150 (fax)

terryc@choctawnation.com

Jena Band of Choctaw Indians

Ms. Lillie Strange, Environmental Department

P.O. Box 14

Jena, Louisiana 71342-0014

318/992-2717 (phone)

318/992-8244 (fax)

Eastern Shawnee Tribe of Oklahoma

Mr. Charles D. Enyart, Chief & NAGPRA

Ext. 250

P.O. Box 350

Seneca, Missouri 64865

918/666-2435 (phone)

918/666-3325 (fax)

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Miami Tribe of Oklahoma

Ms. Julie Olds, NAGPRA
Box 1326
Miami, Oklahoma 74355
918/542-1445 (phone)
918/542-7260 (fax)

Muscogee (Creek) Nation of Oklahoma

Mrs. Joyce A. Bear, NAGPRA
P.O. Box 580
Okmulgee, Oklahoma 74447
918/756-8700, ext. 603 (phone)
918/756-2911 (fax)
cultural@ocevnet.org

Kaw Indian Tribe of Oklahoma

Ms. Crystal Douglas, NAGPRA
Drawer 50
Kaw City, Oklahoma 74641
580//269-2552 (phone)
580/269-2301 (fax)

Delaware Nation

Ms. Tamara Francis, NAGPRA Director
2 Miles North of Anadarko on Hwy. 281
P.O. Box 825
Andarko, Oklahoma 73005
405/247-2448 (phone)
405/247-9393 (fax)

Cherokee Nation of Oklahoma

Dr. Richard Allen, NAGPRA
P.O. Box 948
Tahlequah, Oklahoma 74465
918/456-0671, ext. 2466 (phone)
918/456-6485 (fax)

Quapaw Tribe of Oklahoma

Ms. Carrie V. Wilson, NAGPRA
223 East La Fayette
Fayetteville, Arkansas 72701
479/442-7576 (phone)
e-mail nagpra.106@earthlink.net

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Absentee-Shawnee Tribe of Indians of Oklahoma

Ms. Karen Kaniatobe, Cultural Resources

kkaniatobe@astribe.com

2025 South Gordon Cooper Drive

Shawnee, Oklahoma 74801

405/275-4030 (phone)

405/878-4533 (fax)

NEBRASKA:

Omaha Tribe of Nebraska and Iowa

Mr. Tony Provost, NAGPRA

P.O. Box 368

Macy, Nebraska 68039

402/837-5391 (phone)

402/837-5308 (fax)

Yankton Sioux Tribe of South Dakota

TO BE CONTACTED BY METCALF ARCHAEOLOGY, PER KIM MUNSON

Ms. Maria Darlene Pearson

Yankton Sioux Tribe

1001 North Dakota

Ames, IA 50014

515-292-0548

515-232-0204 fax

NAGPRA Contact

Pawnee Nation of Oklahoma

Mr. Francis Morris

Pawnee Nation of Oklahoma

P.O. Box 470

Pawnee, OK 74058

918-762-2541

918-762-6446 FAX

NAGPRA Contact

Otoe-Missouria Tribe of Indians, Oklahoma

Mildred Hudson, NAGPRA

Otoe-Missouria Tribe of Indians

8151 Highway 177

Red Rock, OK 74651

580-723-4434

580-723-4273 FAX

Chairperson

CONFIDENTIAL

Santee Sioux Nation

Roger Trudell, Chairman
Santee Sioux Nation
108 Spirit Lake Ave. West
Niobrara, NE 68760-7219
(402) 857-2772 (402) 857-2779

Sisseton-Wahpeton

TO BE CONTACTED BY METCALF ARCHAEOLOGY, PER KIM MUNSON

Ms. Aloma McGaa

THPO

Sisseton-Wahpeton Oyate

P.O. Box 707

Agency Village, SD 57262

650-698-3966

James "JC" Crawford, Chairman

Sisseton-Wahpeton Oyate of the Lake Traverse

Reservation

P.O. Box 509

Agency Village, SD 57262

(605) 698-3911 (605) 698-7907

Delaware Nation

Ms. Tamara Francis, NAGPRA Director
e-mail tfrancis@thedelawarenation-nsn.gov
2 Miles North of Anadarko on Hwy. 281
P.O. Box 825
Andarko, Oklahoma 73005
405/247-2448 (phone)
405/247-9393 (fax)

Iowa Tribe of Kansas and Nebraska

Mr. Patt Murphy, NAGPRA Representative
Iowa Tribe of Kansas & Nebraska
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Iowa Tribe of Oklahoma

E. Bernadette Huber, Chair
R.R. 1, Box 721
Perkins, Oklahoma 74059-9599
405/547-2948, ext. 243 (phone for Chair)
405/547-2402 (phone, general)
405/547-5294 (fax)

Kaw Indian Tribe of Oklahoma

Ms. Crystal Douglas, NAGPRA
Drawer 50
Kaw City, Oklahoma 74641
580//269-2552 (phone)
580/269-2301 (fax)

Ponca Tribe of Nebraska

Mr. Fred LeRoy, Chairman
P.O. Box 288
Niobrara, Nebraska 68760
402/857-3391 (phone)
402/857-3436 (fax)

Sac and Fox of the Missouri in Kansas and Nebraska

Ms. Deanne Bahr, NAGPRA
deannbahr@yahoo.com
Edmore Green
egreen@sacandfoxcasino.com
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Sac and Fox Tribe of the Mississippi in Iowa

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jlbuffalo@meskwaki.org

349 Meskwaki Road

Tama, Iowa 52339

641/484-4678 (phone)

641/484-5424 (fax)

Winnebago Tribe

Mr. David Smith, NAGPRA Representative

Little Priest Tribal College

P.O. Box 270

Winnebago, Nebraska 68071

402/878-3313

402/878/2976

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Montana Contact List

CROW:

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Crow Tribal Historic Preservation Officer
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Crow Agency, Montana 59022

George Reed, Jr.
Cultural Resource Manager
Crow Tribe
P.O. Box 1094
Crow Agency, Montana 59022

George Reed, Chairman
Crow Cultural Committee
P.O. Box 850
Crow Agency, Montana 59022

FORT PECK:

Curly Youpee
Director Cultural Resource Department &
NAGPRA Coordinator
Fort Peck Tribes
P.O. Box 1027
Poplar, Montana 59255

NORTHERN CHEYENNE:

Conrad Fisher
Tribal Historic Preservation Officer
Northern Cheyenne Tribe
P.O. Box 128
Lame Deer, Montana 59043

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North Dakota Contact List

Three Affiliated Tribes:

Elgin Crows Breast
Cultural Resource Program Director
Mandan, Hidatsa, Arikara Nation
P.O. Box 673
New Town, North Dakota 58673

Pemina Yellow Bird
Three Affiliated Tribes
P.O. Box 98
Plaza, North Dakota 58771

Calvin Grinnell
Tribal Historian
Mandan, Hidatsa, Arikara Nation
220 8th Avenue North
New Town, North Dakota 58763

cc to: Tex Hall, Chairman
Three Affiliated Tribes
404 Frontage Road
New Town, North Dakota 58763

Spirit Lake:

Ambrose Little Ghost
Cultural Preservation Office
Spirit Lake Nation
P.O. Box 157
Fort Totten, North Dakota 58335-0157

cc to: Myra Pearson, Chairperson
Spirit Lake Tribe
P.O. Box 359
Fort Totten, North Dakota 58335

Standing Rock Sioux Tribe:

Tim Mentz, Sr.
Tribal Historic Preservation Officer
Standing Rock Sioux Tribe
P.O. Box D
Fort Yates, North Dakota 58538

cc to: Ron His Horse Is Thunder, Chairman
Standing Rock Sioux Tribe
P.O. Box D
Fort Yates, North Dakota 58538

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Turtle Mountain Chippewa:

Brady Grant

Chairman's Assistant, Natural Resources Director

Tribal Historic Preservation Officer

Turtle Mountain Band of Chippewa Indians

P.O. Box 900

Belcourt, North Dakota 58316

cc to: Kenneth Davis, Chairman

Turtle Mountain Band of Chippewa Indians

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South Dakota Contact List

Cheyenne River

Albert M. LeBeau III

~~Tribal Historic Preservation Officer~~

~~Cheyenne River Sioux Tribe~~

P.O. Box 590

Eagle Butte, South Dakota 57625

cc to: Harold Frazier, Chairman

~~Cheyenne River Sioux Tribe~~

P.O. Box 590

Eagle Butte, South Dakota 57625

Flandreau Santee Sioux Tribe

Mark Allen, President

~~Flandreau Santee Sioux Tribe~~

P.O. Box 283

Flandreau, South Dakota 57028

Garrie Kills a Hundred

~~Flandreau Santee Sioux Tribe~~

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Flandrea, South Dakota 57028

Oglala Sioux

Cecelia Fire Thunder, President

~~Oglala Sioux Tribe~~

P.O. Box 2070

Pine Ridge, South Dakota 57770

Edgar Bear Runner

Fifth Member's Office

~~Oglala Sioux Tribe~~

P.O. Box 2070

Pine Ridge, South Dakota 57770

Rosebud Sioux

Russell Eagle Bear

~~Tribal Historic Preservation Officer~~

Rosebud Sioux Tribe

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Rosebud, South Dakota 57570

cc to: Rodney Bordeaux, President

~~Rosebud Sioux Tribe~~

P.O. Box 430

Rosebud, South Dakota 57570

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Yankton Sioux

Robert Cournoyer, Chairman

~~Yankton Sioux Tribe~~

P.O. Box 248

Marty, South Dakota 57361

Faith Spotted Eagle

P.O. Box 667

Lake Andes, South Dakota 57356

Sisseton-Wahpeton Oyate

Franky Jackson

~~Tribal Historic Preservation Officer~~

Sisseton-Wahpeton Oyate

Planning and Development

Old Agency

P.O. Box 509

Sisseton, South Dakota 57262-0509

cc to: Jerry Flute, Chairman

Sisseton-Wahpeton Oyate

P.O. Box 509

Agency Village, South Dakota 57262

Crow Creek Sioux

Duane Big Eagle, Chairman

~~Crow Creek Sioux Tribe~~

P.O. Box 50

Fort Thompson, South Dakota 57339

Torin Crowe

~~Crow Creek Sioux Tribe~~

P.O. Box 50

Fort Thompson, South Dakota 57339

Lower Brule Sioux

Michael Jandreau, Chairman

~~Lower Brule Sioux Tribe~~

187 Oyate Circle

Lower Brule, South Dakota 57548

Scott Jones

Lower Brule Sioux Tribe

187 Oyate Circle

Lower Brule, South Dakota 57548



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Memo

August 14, 2006

I was contacted by James Whitted of the Sisseton Tribal Historic Preservation Office at approximately 9:30 AM regarding the Keystone pipeline project. He was responding to the Consultation letter sent to Franky Jackson. He apologized for being late in his response. I briefly discussed our findings in South Dakota and said that to this point we had found two possible cairn sites and that our recommendation was for avoidance and not for subsurface testing. He appreciated that and was hoping to be able to get copies of our report and site forms. In addition they would like to be able to visit the sites prior to construction and possibly to monitor them during construction. I told him that I would forward his concerns and suggested that it would be possible to send a copy of the site forms and report. I also told him that at this point we were still in the process of writing the report and filling out site forms. He would appreciate getting updates on the pipeline progress from time to time.

James Whitted
Tribal Historic Preservation Office
Sisseton South Dakota
P.O. Box 509
57262-0509

Ed Stine

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Native American Consultation Process - Keystone

As soon as the archaeological subcontract is awarded:

1. The archaeological subcontractors will obtain the list of federally-recognized Native American tribes for each state crossed by the proposed pipeline corridor through the SHPOs and Native American Consultation Database maintained by the National Park Service. Note: There could be at least four subcontractors conducting Native American consultation and there could be overlaps between states (e.g., the same tribes could be on the lists for both North and South Dakota). ENSR will review the lists for each state to determine if there are any overlaps and assist the subcontractors in making sure that multiple letters do not go to the same tribe(s).
2. The archaeological subcontractors will prepare draft consultation letters and submit the letters to ENSR and TransCanada for review. ENSR and TransCanada will review the letter and submit any edits to the contractors. The letter will include the project description and project map, and will request any comments/concerns the tribes may have regarding the proposed project. A date as to when the tribes must respond to the consultation letter (typically 30 days from receipt of the letter) will be included as well. (The attached file contains an example consultation letter taken from the Rockies Express Pipeline Project.)
3. The letters will be sent out by the archaeological subcontractors via certified mail on the archaeological contractor's letterhead. Copies of the consultation letters on the archaeological subcontractor's letterhead will be sent to ENSR and TransCanada for inclusion in the project files.
4. Follow-up phone calls will be made by the archaeological subcontractors to those tribes that have not responded within 2 weeks of mailing out the letters.
5. All correspondence with the tribes (i.e., letters, phone calls) must be documented by the archaeological subcontractors in a spreadsheet for inclusion in the EA and project files.
6. In the past, most of the tribes have not responded to the letters; however, on occasion they have requested a copy of the survey report or compliance with the Native American Graves Protection and Repatriation Act (NAGPRA) if human remains are found during the surveys or project construction. If the tribes request a copy of the survey report, the archaeological subcontractors will be responsible for sending the report to the appropriate tribal member(s). Compliance with NAGPRA will be accomplished through an Unanticipated Discoveries Plan that will be prepared by the archaeological subcontractors and submitted to and approved by the SHPOs. The plan will be included in the survey reports and Plan of Operations.
7. There is a possibility that the tribes may request a field visit or "face-to-face" meeting. If this were to happen, then the consultation process goes from "informal" to "formal government-to-government consultation," which would require a "government entity" (i.e., DOS) to meet with the tribe(s). We definitely need direction from the DOS on this issue: a) if someone at the DOS would be responsible for meeting with the tribe(s), then we need to document the name of that person; b) if no one at the DOS would be responsible, then the DOS needs to identify a government official (or someone else to act on their behalf) to take on the responsibility of government-to-government consultation.

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Metcalf Archaeological Consultants, Inc.

MEMO: ENSR International
 Keystone Pipeline
 TransCanada North Dakota

Submitted by: Ed Stine

Date: Friday, December 2, 2005

Met with Paul Picha and discussed possibilities/considerations for Trans Canada Pipeline Research Design/SOW North Dakota segment. NDSHPO concerns yet to be answered include, obviously, the alignment and how firm it will be when we get the maps; the diameter of the pipeline; and what other agencies might be involved. It appears that the PSC will be the lead agency with possible input from the CORP of Engineers, US Fish & Wildlife, Bureau of Rec., and possibly the US Forest Service (if for example the line crosses the Sheyenne Grasslands). With the caveat that NDSHPO will not dispute more stringent requirements that any of the agencies, particularly PSC, may require, and without any particular alignment available, they feel that all river crossings, the Pembina Gorge area (if crossed), beach ridge areas, and possibly any stretches of native prairie (where ox cart trails may remain) should have 100% pedestrian survey. They will want a Class I files search of a corridor 1 mile wide (½ mile on either side of pipeline), with results mapped, and would review the results, probably in conjunction with a PSC representative and a MAC representative. At that time we would work out final requirements.

Current feelings are that in addition to known sites and the aforementioned river crossings etc. a 20 to 25% sample should be covered with a pedestrian survey. It may be that the whole route should be covered with a Class II windshield survey as well. This would ensure that areas with native prairie and ox cart trail remnants would be covered. Aerial photos with the alignment plotted would be nice but are not essential. Corridor width for pedestrian survey is expected to be 200' to 300' where there are no existing parallel pipelines and 100' to 150' wide where existing line is paralleled.

Other general questions include 1) any plans that this will be part of an Energy Corridor; 2) expected depth of pipeline; 3) locations and size of compression stations, lay-down areas, storage yards, concrete coating yards 4) general route plans from Alberta? To Kansas, Missouri or where ever.

Once NDSHPO is formally contacted they will, if requested, contact PSC so that they are involved at the front end and will not have later concerns that could result in delays or additional unanticipated work. Contact letter should be addressed to Merlan Paaverud, Jr., State Historic Preservation Officer, with a CC to Susan Quinnelle, NDSHPO Review and Compliance Officer.

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Metcalf Archaeological Consultants, Inc.

MEMO: ENSR International
 Keystone Pipeline
 TransCanada North Dakota

Submitted by: Ed Stine, Staff Archaeologist

Date: January 17, 2006

Ed Stine met briefly with Paul Picha (NDSHPO Chief Archaeologist) and went over the TransCanada Keystone pipeline project routing. Based on the results of the files search and our general knowledge of areas with site potential we identified segments on the maps that we both felt ought to be covered by pedestrian inventory. The goal of the meeting was to ensure that sensitive segments of the route would be inventoried. Paul was very much in favor of the idea of having the route being covered by a qualified geomorphologist. This would provide for a less intensive inventory of the whole line by ensuring any sensitive areas are included and yet allow for areas with low potential to be dropped from further investigation. The main area of concern with regards to dropping segments from intensive inventory was that no railroads or NRHP eligible structures should go unrecorded. As long as the project topographic maps are closely examined we should be able to identify railroad lines along with existing structures ahead of time and go directly to those locations to record or update the site forms. Paul said it would be a good idea to meet with PSC officials and address any of their concerns while going over the final research design's project maps as early into the project schedule as possible. He also reminded me that if the line passes near any cemeteries, especially catholic cemeteries, an adequate buffer should be included to avoid any possible burials immediately adjacent to the grounds. Suicides and bodies otherwise unacceptable were sometimes interred near the cemetery but off the official grounds. All that being said the research design should be acceptable to NDSHPO.



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Metcalf Archaeological Consultants, Inc.

MEMO: ENSR International
 Keystone Pipeline
 TransCanada South Dakota

Submitted by: Amy Bleier, Staff Archaeologist

Date: January 20, 2006

I called Paige Hoskinson (605-773-6004) at the South Dakota State Historic Preservation Office with two questions. First, I asked if there is a minimum requirement for sampling in South Dakota. She said there is not; it is at the discretion of the Principal Investigator. Second, I asked if we need to map all of the architectural sites within the South Dakota project corridor. She responded that we could either map the sites or, alternatively, we could add a column in the Record Search Results table indicating the proximity of the architectural sites to the pipeline.

P.O. Box 2154, Bismarck, North Dakota 58502
2910 East Broadway #19, Bismarck, North Dakota 58501
(701) 258-1215 • (701) 258-7156 fax • macnodak@btinet.net

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Metcalf Archaeological Consultants, Inc.

MEMO: ENSR International
 Keystone Pipeline
 TransCanada South Dakota

Submitted by: Amy Bleier, Staff Archaeologist

Date: January 23, 2006

I called Paige Hoskinson (605-773-6004) at the South Dakota State Historic Preservation Office with one question. I asked whether or not there is an Indian Affairs Commission (like the one in North Dakota) or a similar entity established in South Dakota. Paige said there is not. She suggested we contact the Bureau of Indian Affairs for a list of the tribes in South Dakota.

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FOR INTERNAL KEYSTONE PROJECT USE ONLY

TransCanada – Keystone Pipeline Contact Summary Form

Location of Meeting South Dakota State Historical Society

Date/Time of Meeting December 2, 2005; January 17, 2006; January 20, 2006; January 23, 2006

Keystone Team Member(s) Kim Munson
(Meeting between Metcalf Archaeology and State Historic Preservation Officer)

Contact Information:

Name	N/A
Title	N/A
Organization	South Dakota State Historical Society
Address	900 Governors Drive, Pierre, South Dakota 57501-2217
County	
Phone	605-773-3458
Email address	

Meeting Information:

Type of Contact (phone, in-person, etc.): In-person

Phone _____

Issue: Class III inventory methodology

Concern Level: High ___ Moderate ___ Low ___

Description:

Meeting notes received from Metcalf Archaeology and are filed at:
J:\10000\10623-004-KEYSTONE\Agency Coordination\Contact Summaries\Electronic information associated with contact summaries

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Metcalf Archaeological Consultants, Inc.

MEMO: ENSR International
 Keystone Pipeline
 TransCanada South Dakota

SUBMITTED BY: Damita Hiemstra, Staff Archaeologist

Date: January 17, 2006

I contacted Paige Hoskinson of South Dakota SHPO to discuss lead regulatory agency jurisdiction for this project. I informed Paige we believed it was SHPO, but she was concerned there was some sort of federal money involved for a project that large and that we should contact the client and make sure. I agreed and said I would contact her again when I had confirmation.

Note: After this conversation, Amy Bleier took over the South Dakota portion of the project and I no longer had any contact with this survey. Amy has since been in contact with Paige.

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Metcalfe Archaeological Consultants, Inc.

MEMO: ENSR International
Keystone Pipeline
TransCanada South Dakota

Submitted by: Damita Hiemstra, Staff Archaeologist

Date: Friday, December 2, 2005

Re: Trans Canada Pipeline Research Design/SOW South Dakota Segment

I first phoned Mike Fosha at the South Dakota Archaeological Research Center to determine if sample surveys were conducted in South Dakota. He confirmed that such projects were done, although unknown archaeological firms are subjected to more enquires, as unqualified people have created problems in the past. He recommended talking directly to Paige Hoskinson, the Review and Compliance Officer, for more details.

Paige was familiar with such sample surveys and was aware the Trans Canada Pipeline project was beginning and that it would affect South Dakota. The process for research design approval is simple submission of a design to her for acceptance. A few questions that need to be addressed are the exact APE, depth of impact, width of corridor planned, etc. Without these details, more information would be difficult to give.

Sampling strategies should include 100% pedestrian survey of high-probability areas, an appropriate percentage of medium-probability areas, and a larger-than-10% sample of low probability areas covered. In the event any of the medium or low probability areas yield more than the expected number of sites an adjustment to the research design will be needed (i.e., a larger percentage surveyed). The sampling strategy should be based on previous work conducted, terrain changes, distance to water, and nature of the project's APE (addressed above).

Paige is available for further information as soon as we have more specific details about the project.

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ENSR
1601 Prospect Parkway, Fort Collins, Colorado 80525
T 970.493.8878 F 970.493.0213 www.ensr.aecom.com

Memorandum

Date: August 21, 2006
To: Mike Koski
From: Kim Munson
Subject: Strategy for remaining cultural resources investigations

Distribution: S. Ellis B. Hope

TRANSCANADA KEYSTONE PIPELINE PROJECT STRATEGY FOR REMAINING CULTURAL RESOURCES WORK

ENSR's archaeological subcontractors completed the pedestrian field surveys along the majority of the proposed Keystone ROW in North and South Dakota, Nebraska, Missouri, and Illinois. Several segments of the pipeline ROW were not surveyed because of denied access or because reroutes were under consideration at the time of the field surveys. It is anticipated that these segments will be surveyed in the fall after the crops have been harvested, and if the weather is suitable for survey.

The following is a strategy summary for the remaining work:

SURVEY – Remaining surveys will be conducted as soon as reroutes are finalized and access is obtained. The following are factors to consider for these remaining surveys:

- Weather – Remaining surveys most likely will be finished in fall 2006. If they are not completed in the fall, there is a slight possibility that if surface visibility is not hampered by snow and the weather is agreeable, surveys could be conducted in the winter. If surveys cannot be completed this year, they would be finished in early to late spring 2007, weather permitting.
- Crops – Remaining surveys in active cropland will be conducted after the crops are harvested in late September to early November, depending on the crop.
- Survey Report – It would be best if the entire ROW was surveyed prior to submitting the survey report to the SHPOs. However, since the majority of the ROW has been surveyed, it is anticipated that most, if not all, of the SHPOs will allow the report to be submitted prior to completed surveys. Submittal time for the reports is tentatively planned for early to late December 2006. After the survey report is submitted, any outstanding field surveys of the ROW, access roads, contractor/pipe yards, and extra workspace would be included in an addendum report.

SHOVEL PROBES – Shovel probes were conducted in areas that had low surface visibility during survey and moderate to high site potential, primarily at stream crossings. The majority of these were done in July and August. Additional shovel probes still need to be conducted at selected stream crossings. These will be completed in fall 2006, weather permitting.

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TESTING – Several sites will require evaluative testing to make a definitive determination of NRHP-eligibility. Factors to consider:

- **Weather** – Evaluative testing consists of digging several 1 x 1 meter test pits in the ground and backhoe trenching (only in Nebraska, Missouri, and Illinois). Evaluative testing is tentatively scheduled for September, October, and November 2006, weather permitting.
- **Crops** – If testing were done prior to harvest, TransCanada would have to pay for crop damage. However, since testing disturbs a relatively small area and can be done within a reasonable timeframe, it would be preferable to wait until the crops are harvested.
- **SHPO guidelines** – The timing of evaluative testing is different for each state. The ND/SD SHPOs prefer that evaluative testing be done prior to submitting the survey report. This enables the SHPO to make a more informed decision when determining site significance. Nebraska and Missouri SHPOs are open to testing before the report is submitted. The Illinois SHPO requests that testing not occur until after the report is submitted to them.
- **Evaluation** – Following evaluative testing, if a site is determined eligible for the NRHP, and the SHPO/DOS agrees with the evaluation, avoidance most likely would be recommended. If avoidance is not feasible, the SHPO/DOS would recommend mitigation (e.g., data recovery, historical research, photo-documentation, signs/kiosks). The type of mitigation would depend on the site type.
- **Treatment Plan** – If avoidance is not feasible and mitigation is recommended, a treatment plan would be prepared and submitted to the SHPO/DOS for review and concurrence. Review of a treatment plan could take up to 30 days. Note: Tribes involved in the consultation process may request review of the treatment plan.
- **Mitigation** – Mitigation as described in the treatment plan would be conducted in summer 2007.

CORE SAMPLING – The drive-by reconnaissance of stream crossings was completed in early summer. Shovel probes at selected stream crossings were conducted in July and August 2006. As a result of the drive-by reconnaissance and shovel probes, several stream crossings were selected for core sampling. Core sampling will be conducted in fall 2006 or spring 2007. Results of the core sampling will determine the need for any additional investigations (e.g., open trench inspection).

SURVEY REPORT – The tentative submittal date for the survey report is mid- to late-December 2006. The SHPO/DOS will have 30 days to review and comment. Any outstanding surveys or testing to be done after the survey report is submitted would be included in an addendum report. Review and comment on addendum reports also is 30 days. Note: The Tribes may request copies of the survey report, but are not involved in review and concurrence.

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T 970.493.8878 F 970.493.0213 www.ensr.aecom.com

GENERAL CONCERNS:

- THE SHPO WILL NOT REVIEW THE REPORT UNTIL SECTION 106 HAS BEEN INITIATED BY THE DOS.
- IF ANY OF THE CONTACTED TRIBES WANT TO MEET WITH THE AGENCIES OR VISIT ANY OF THE SITES, THE DOS MUST INITIATE GOVERNMENT-TO-GOVERNMENT CONSULTATION.
- THE ILLINOIS SHPO REQUIRES THAT ALL TESTING BE DONE AFTER THEY HAVE REVIEWED THE SURVEY REPORT AND EITHER AGREED OR DISAGREED WITH THE ELIGIBILITY FINDINGS. IF THE ILL SHPO AGREES THAT A SITE IS POTENTIALLY ELIGIBLE, THEY WILL REQUIRE TESTING TO MAKE A DEFINITIVE DETERMINATION. IF THE SITE IS TESTED AS ELIGIBLE, THEN THE SHPO WILL RECOMMEND AVOIDANCE. IF AVOIDANCE IS NOT FEASIBLE, THEN MITIGATION WOULD FOLLOW.
- THE ILLINOIS SHPO REQUIRES THAT THE ENTIRE ROW BE SURVEYED PRIOR TO SUBMITTING THE SURVEY REPORT. ARG IS DISCUSSING THIS ISSUE WITH THE SHPO TO SEE IF THE SHPO WOULD ACCEPT THE REPORT ONCE A CERTAIN PERCENTAGE OF THE ROW IS SURVEYED.

Schedules for Completing the Remaining Cultural Resources Investigations within the Keystone Pipeline Corridor			
State	Remaining Survey Mileage/Sites to Test	Timeline Dates	Report Completion Date
North Dakota	Phase I Survey (resources)	Oct. 2	Preliminary Report Submitted December 1, 2006
	Approximately 10 miles	Oct. 2	
	Geomorph contour		
	Phase II Testing	Sept. 18-27	
South Dakota	Phase I Survey (resources)	Oct. 2	Preliminary Report Submitted December 1, 2006
	Approximately 15 miles	Oct. 2	
	Geomorph contour		
	Phase II Testing	Oct. 15-20	
Nebraska	Phase I Survey	October 30-November 8, 2006	Draft Phase I Report Submitted December 22, 2006
	Approximately 36 miles*		
	Phase II Testing**	n/a	
	Notes (all sites will be avoided)		
Missouri	Phase I Survey	Oct. 2-12	First Interim Report (including Phase I results) Submitted December 22, 2006
	Approximately 44 miles*	Oct. 16-27	
	Phase II Testing**		
	JM-5	Sept. 5-9	
	JM-9	Sept. 10-14	
	JM-10	Sept. 18-23	
	JM-11	Sept. 23-28	
	JM-12	Oct. 2-6	
	JM-13	Oct. 7-12	
	JM-15	Oct. 16-20	
	JM-16	Oct. 21-26	
	JM-20	Oct. 30-Nov. 2	
JM-21	Nov. 3-7		
JM-22	Nov. 8-11		
Illinois	Phase I Survey	Sept. 25-Oct. 2	Draft Phase I Report Submitted December 22, 2006
	Approximately 15 miles*	Oct. 2	
	Additional Survey to Avoid JM-13		
	Phase II Testing**		
	JM-2	Sept. 5-9	
	JM-3	Sept. 10-14	
	JM-9	Sept. 18-22	
	JM-17	Sept. 23-28	
	JM-18	Oct. 2-6	
	JM-19	Oct. 7-12	
	JM-20	Oct. 16-20	
	JM-23	Oct. 21-26	
JM-13 (if necessary)	Oct. 30-Nov. 2	Draft Phase II Report Submitted Spring 2007	

* Assuming all mileage is cleared for survey, and not considering potential resources, etc.
 ** The formal evaluation of the National Register eligibility of a site through Phase II testing typically entails use of each of the following field-investigation methods: the hand excavation of two to six test units in order to document the horizontal and vertical distribution pattern of cultural material across the site; the mechanical removal of topsoil zone/A horizon along a number of widely distributed stripping trenches in order to determine whether subsoil zone features are present; the hand excavation of a sample of subsoil zone features identified in the test units and stripping trenches; and, the preparation of a detailed contour map showing the location of test units, stripping trenches, and features in relation to cultural landmarks and project boundaries.



KEYSTONE PIPELINE PROJECT – Project Description

TransCanada Keystone Pipeline, LP (Keystone) proposes to construct and operate an interstate crude oil pipeline and related facilities from an oil supply hub near Hardisty, Alberta, in Canada to destinations in the United States (U.S.). The project, known as the Keystone Pipeline Project, initially will have the nominal capacity to deliver 435,000 barrels per day (bpd) of crude oil from the oil supply hub near Hardisty to existing terminals at Wood River (Madison County) and Patoka (Marion County), Illinois. If market conditions warrant expansion in the future, additional pumping capacity could be added to increase the average throughput to 591,000 bpd. Depending on shipper interest, Keystone also is considering the construction of two pipeline extensions to take crude oil from terminals at Fort Saskatchewan, Alberta, and deliver it to Cushing (Payne County), Oklahoma.

In total, the Keystone Pipeline Project will consist of approximately 1845 miles of pipeline, including about 767 miles in Canada and 1,078 miles within the U.S. These distances will increase if either or both of two potential pipeline extensions to Fort Saskatchewan, Alberta, or Cushing, Oklahoma, are constructed.

In Canada, the project will involve the transfer to Keystone of an existing 530-mile, 34-inch-diameter pipeline currently owned by TransCanada, and conversion of that line to crude oil service; the construction of a new 237-mile pipeline extension from Hardisty to the existing pipeline and the construction of a pipeline extension from the existing pipeline to the U.S.-Canada border (Figure 1.1-1). Conversion of the existing natural gas pipeline will significantly reduce environmental impacts and overall construction costs associated with the project. Appropriate regulatory authorities in Canada will conduct an independent environmental review process for the Canadian facilities.

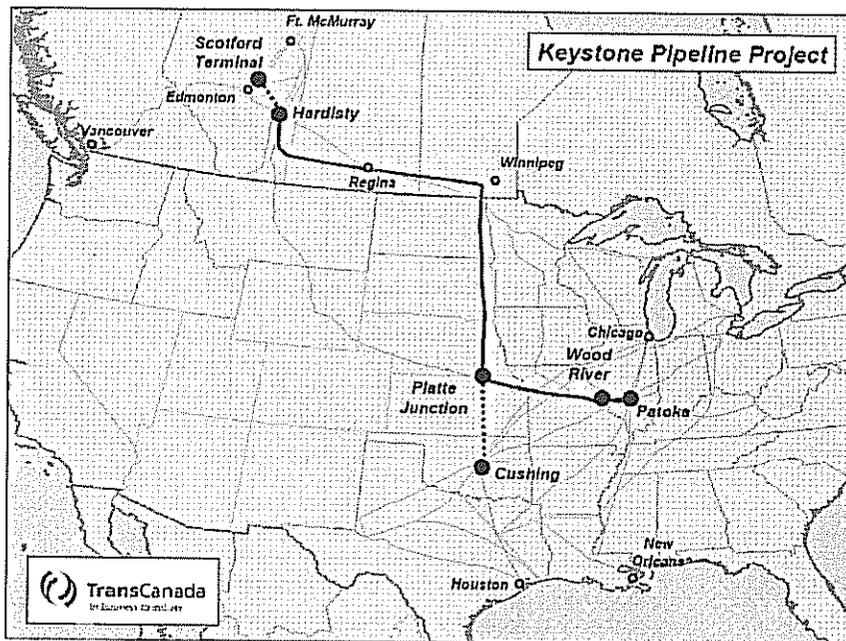


Figure 1.1-1. Proposed Keystone Pipeline Route
(Potential expansions represented by the dotted line)

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In the U.S., the Keystone Mainline will consist of 1,023 miles of 30-inch pipe between the U.S./Canadian border in Cavalier County, North Dakota and Wood River, Illinois and a 55-mile segment of 24-inch pipeline between Wood River and Patoka, Illinois. Depending on the results of an additional binding Open Season to be held late in 2006, Keystone also may construct a 292-mile 36-inch pipeline, referred to as the Cushing Extension, commencing in Platte County near the Nebraska-Kansas border and terminating at existing crude oil terminals in Cushing (Payne County), Oklahoma.

Keystone will construct the 30- and 36-inch pipelines within a 110-foot-wide corridor, consisting of both a temporary 60-foot-wide construction right-of-way (ROW) and a 50-foot permanent ROW. In Illinois where a portion of the Keystone Pipeline will be a 24-inch pipeline, the project will be constructed within a 95-foot-wide corridor, consisting of both a temporary 45-foot-wide construction ROW and a 50-foot permanent ROW. Extra workspace will be required in some locations, including stream, wetland and road crossings.

Aboveground facilities for the Keystone Mainline will include an initial 23 pump stations (certain stations will combine pigging facilities), two delivery sites, three densitometer sites, and 45 mainline valves located within the ROW. The new pump stations will enable Keystone to maintain the pressure required to make crude oil deliveries. Valves will be installed and located as dictated by the hydraulic characteristics of the pipeline, as required by federal regulations, and with the intent to enhance public safety and environmental protection as part of Keystone's integrity management practices. Delivery metering and prover facilities at Wood River, Patoka, and Cushing will measure the amount of product transported and delivered to terminals.

Aboveground facilities for the Cushing Extension will include three pump stations, two densitometer sites, two delivery facilities at Ponca City and Cushing (with the Cushing delivery site containing pigging facilities), and 12 mainline valves within the ROW. The Keystone delivery facility will be located adjacent to existing operational tanks in Ponca City and Cushing, Oklahoma.

The new pump stations and remotely activated valves located along the pipeline route will require electrical transmission powerlines and facility upgrades in multiple locations along its route. These electrical components will be constructed and operated by local power providers, not Keystone. The construction and operation of these facilities are considered connected actions under National Environmental Policy Act (NEPA) and, therefore, are evaluated within the Environmental Impact Statement.

Keystone proposes to begin construction of the Mainline in early 2008. Construction will occur over an approximately 18-month period. Keystone is proposing an in-service date of no later than November 2009 for the Mainline. Construction of the Cushing Extension would commence in 2009 and occur over a 12-month period. The proposed in-service date for the Cushing Extension is November 2010.



KEYSTONE PIPELINE PROJECT – Project Description

TransCanada Keystone Pipeline, LP (Keystone) proposes to construct and operate an interstate crude oil pipeline and related facilities from an oil supply hub near Hardisty, Alberta, in Canada to destinations in the United States (U.S.). The project, known as the Keystone Pipeline Project, initially will have the nominal capacity to deliver 435,000 barrels per day (bpd) of crude oil from the oil supply hub near Hardisty to existing terminals at Wood River (Madison County) and Patoka (Marion County), Illinois. If market conditions warrant expansion in the future, additional pumping capacity could be added to increase the average throughput to 591,000 bpd. Depending on shipper interest, Keystone also is considering the construction of two pipeline extensions to take crude oil from terminals at Fort Saskatchewan, Alberta, and deliver it to Cushing (Payne County), Oklahoma.

In total, the Keystone Pipeline Project will consist of approximately 1845 miles of pipeline, including about 767 miles in Canada and 1,078 miles within the U.S. These distances will increase if either or both of two potential pipeline extensions to Fort Saskatchewan, Alberta, or Cushing, Oklahoma, are constructed.

In Canada, the project will involve the transfer to Keystone of an existing 530-mile, 34-inch-diameter pipeline currently owned by TransCanada, and conversion of that line to crude oil service; the construction of a new 237-mile pipeline extension from Hardisty to the existing pipeline and the construction of a pipeline extension from the existing pipeline to the U.S.-Canada border (Figure 1.1-1). Conversion of the existing natural gas pipeline will significantly reduce environmental impacts and overall construction costs associated with the project. Appropriate regulatory authorities in Canada will conduct an independent environmental review process for the Canadian facilities.

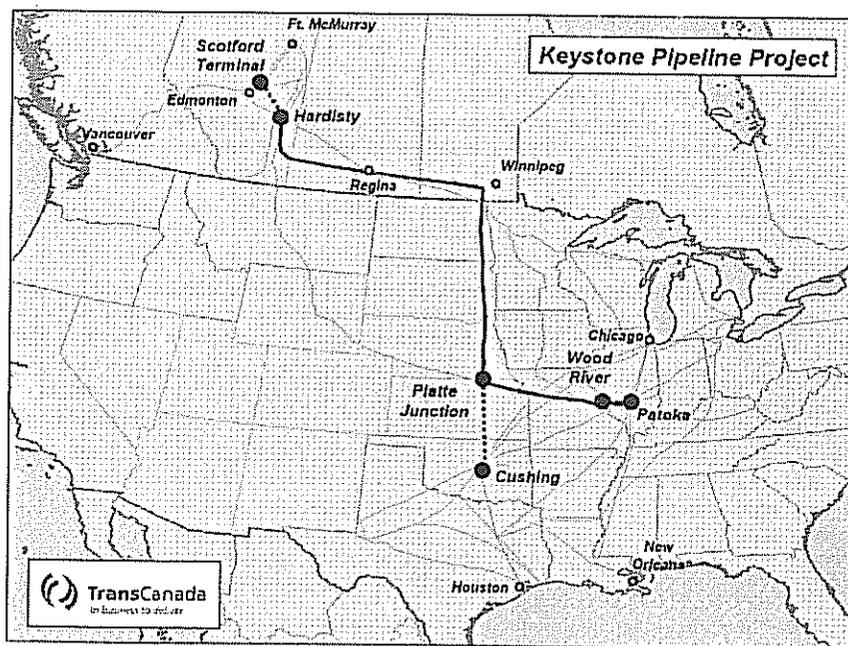


Figure 1.1-1. Proposed Keystone Pipeline Route
(Potential expansions represented by the dotted line)

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In the U.S., the Keystone Mainline will consist of 1,023 miles of 30-inch pipe between the U.S./Canadian border in Cavalier County, North Dakota and Wood River, Illinois and a 55-mile segment of 24-inch pipeline between Wood River and Patoka, Illinois. Depending on the results of an additional binding Open Season to be held late in 2006, Keystone also may construct a 292-mile 36-inch pipeline, referred to as the Cushing Extension, commencing in Platte County near the Nebraska-Kansas border and terminating at existing crude oil terminals in Cushing (Payne County), Oklahoma.

Keystone will construct the 30- and 36-inch pipelines within a 110-foot-wide corridor, consisting of both a temporary 60-foot-wide construction right-of-way (ROW) and a 50-foot permanent ROW. In Illinois where a portion of the Keystone Pipeline will be a 24-inch pipeline, the project will be constructed within a 95-foot-wide corridor, consisting of both a temporary 45-foot-wide construction ROW and a 50-foot permanent ROW. Extra workspace will be required in some locations, including stream, wetland and road crossings.

Aboveground facilities for the Keystone Mainline will include an initial 23 pump stations (certain stations will combine pigging facilities), two delivery sites, three densitometer sites, and 45 mainline valves located within the ROW. The new pump stations will enable Keystone to maintain the pressure required to make crude oil deliveries. Valves will be installed and located as dictated by the hydraulic characteristics of the pipeline, as required by federal regulations, and with the intent to enhance public safety and environmental protection as part of Keystone's integrity management practices. Delivery metering and prover facilities at Wood River, Patoka, and Cushing will measure the amount of product transported and delivered to terminals.

Aboveground facilities for the Cushing Extension will include three pump stations, two densitometer sites, two delivery facilities at Ponca City and Cushing (with the Cushing delivery site containing pigging facilities), and 12 mainline valves within the ROW. The Keystone delivery facility will be located adjacent to existing operational tanks in Ponca City and Cushing, Oklahoma.

The new pump stations and remotely activated valves located along the pipeline route will require electrical transmission powerlines and facility upgrades in multiple locations along its route. These electrical components will be constructed and operated by local power providers, not Keystone. The construction and operation of these facilities are considered connected actions under National Environmental Policy Act (NEPA) and, therefore, are evaluated within the Environmental Impact Statement.

Keystone proposes to begin construction of the Mainline in early 2008. Construction will occur over an approximately 18-month period. Keystone is proposing an in-service date of no later than November 2009 for the Mainline. Construction of the Cushing Extension would commence in 2009 and occur over a 12-month period. The proposed in-service date for the Cushing Extension is November 2010.

