



United States Department of the Interior

BUREAU OF INDIAN AFFAIRS
Great Plains Regional Office
115 Fourth Avenue S.E., Suite 400
Aberdeen, South Dakota 57401

IN REPLY REFER TO:

DESCRM

MC-208

OCT 05 2012

MEMORANDUM

TO: Superintendent, Fort Berthold Agency

FROM: Acting Regional Director, Great Plains Region

SUBJECT: Environmental Assessment Addendum and Finding of No Significant Impact

In compliance with the regulations of the National Environmental Policy Act (NEPA) of 1969, as amended, an Addendum has been completed and a Finding of No Significant Impact (FONSI) has been issued. The Addendum authorize land use for pipelines connecting the Fort Berthold #148-95-23C-14-3H,-4H,-5H & #148-95-26B-35-3H,-4H, -5H wells to the Arrow Fort Berthold #148-95-23D-14-1H,-2H & #148-95-26A-35-1H,-2H pipeline on the Fort Berthold Indian Reservation.

All the necessary requirements of the National Environmental Policy Act have been completed. Attached for your files is a copy of the Addendum, FONSI and Notice of Availability. The Council on Environmental Quality (CEQ) regulations require that there be a public notice of availability of the (40 C.F.R. Section 1506.6(b)). Please post the attached notice of availability at the Agency and Tribal buildings for 30 days.

If you have any questions, please call Marilyn Bercier, Regional Environmental Scientist, Division of Environment, Safety and Cultural Resources Management, at (605) 226-7656.

Attachment

cc: Tex Hall, Chairman, Three Affiliated Tribes (with attachment)
Elgin Crows Breast, Tribal Historic Preservation Officer (with attachment)
Derek Enderud, BLM, Bureau of Land Management (with attachment)
Jason Bivens, SWCA (with attachment)
Carson Hood/Fred Fox, MHA Energy Dept. (with attachment)
Jonathon Shelman, Corps of Engineers (e-mail)
Jeff Hunt, Fort Berthold Agency (e-mail)

Finding of No Significant Impact

Arrow Pipeline, LLC

Addendum to Environmental Assessment to Authorize Land Use for Gathering Pipelines Connecting the Fort Berthold #148-95-23C-14-3H,-4H,-5H & #148-95-26B-35-3H,-4H,-5H Wells to the Arrow Fort Berthold #148-95-23D-14-1H,-2H & #148-95-26A-35-1H,-2H Pipeline

Fort Berthold Indian Reservation Dunn County, North Dakota

The U.S. Bureau of Indian Affairs (BIA) has received a proposal to authorize land use for the construction and installation of three pipelines including one crude oil pipeline, one natural gas pipeline, and one produced water pipeline. As proposed, the Fort Berthold #148-95-23C-14-3H,-4H,-5H & #148-95-26B-35-3H,-4H,-5H pipeline system (pipelines) would transport oil, natural gas, and produced water to markets and approved disposal sites. A buried electrical line may be installed within the approve right-of-way (ROW) in the future.

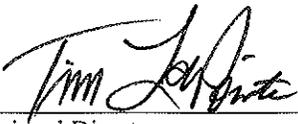
The pipelines would be located on trust land originating near the east side of the approved Petro-Hunt Fort Berthold #148-95-23C-14-3H,-4H,-5H & #148-95-26B-35-3H,-4H,-5H well pad (well pad) in the SE¼, SW¼ of Section 23, Township (T) 148 North (N), Range (R) 95 West (W), 5th Prime Meridian (P.M.), Dunn County, North Dakota. The proposed pipelines would trend northeast and terminate in the SE¼, SE¼ of Section 23, T148N, R95W, 5th P.M., Dunn County, North Dakota. Associated federal actions by BIA include determinations of impacts and effects regarding environmental resources for developments on tribal lands.

The potential of the proposed actions to impact the human environment is analyzed in the attached addendum to an existing EA, as required by the National Environmental Policy Act. Based on the recently completed addendum to the EA, I have determined that the proposed project will not significantly affect the quality of the human environment. No Environmental Impact Statement is required for any portion of the proposed activities.

This determination is based on the following factors:

1. Agency and public involvement solicited for the preceding NEPA document was sufficient to ascertain potential environmental concerns associated with the currently proposed project.
2. Protective and prudent measures were designed to minimize impacts to air, water, soil, vegetation, wetlands, wildlife, public safety, water resources, and cultural resources. The remaining potential for impacts was disclosed for both the proposed actions and the No Action alternative.
3. Guidance from the U.S. Fish and Wildlife Service has been fully considered regarding wildlife impacts, particularly in regard to threatened or endangered species. This guidance includes the Migratory Bird Treaty Act (16 U.S.C. 703 et seq.), the National Environmental Policy Act of 1969, as amended (42 U.S.C. 4321 et seq.), the Bald and Golden Eagle Protection Act (16 U.S.C. 668-668d, 54 Stat. 250), Executive Order 13186 "Responsibilities of Federal Agencies to Protect Migratory Birds", and the Endangered Species Act (16 U.S.C. 1531 et seq.).
4. The proposed actions are designed to avoid adverse effects to historic, archaeological, cultural and traditional properties, sites and practices. Compliance with the procedures of the National Historic Preservation Act is complete.
5. Environmental justice was fully considered.
6. Cumulative effects to the environment are either mitigated or minimal.

7. No regulatory requirements have been waived or require compensatory mitigation measures.
8. The proposed projects will improve the socio-economic condition of the affected Indian community.

Acting 
Regional Director

10-5-12
Date

ENVIRONMENTAL ASSESSMENT Addendum

United States Bureau of Indian Affairs

**Great Plains Regional Office
Aberdeen, South Dakota**



Arrow Pipeline, L.L.C

**Addendum to Environmental Assessment to Authorize Land Use for Gathering Pipelines
Connecting the Fort Berthold #148-95-23C-14-3H,-4H,-5H & #148-95-26B-35-3H,-4H,
-5H Wells to the Arrow Fort Berthold #148-95-23D-14-1H,-2H & #148-95-26A-35-1H,-2H
Pipeline**

Fort Berthold Indian Reservation

October 2012

For information contact:
Bureau of Indian Affairs, Great Plains Regional Office
Division of Environment, Safety and Cultural Resources Management
115 4th Avenue SE, Aberdeen, South Dakota 57401
(605) 226-7656

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1. Purpose and Need for the Proposed Action

The purpose of the proposed action is to authorize the land use by Arrow Pipeline, LLC (Arrow), for the construction and installation of three pipelines including one oil pipeline, one natural gas pipeline, and one produced water pipeline. As proposed, the Fort Berthold #148-95-23C-14-3H,-4H,-5H & #148-95-26B-35-3H,-4H,-5H pipeline system (pipelines) would transport oil, natural gas, and produced water to markets and approved disposal sites (see the Applicable NEPA Document(s) and Other Relevant NEPA Document(s) sections below). A buried electrical line may be installed within the approved right-of-way (ROW) in the future.

Developments have been proposed on land held in trust by the United States in Dunn County, North Dakota, where the Bureau of Indian Affairs (BIA) is the surface management agency for potentially affected individual allotments. The economic development of available resources and associated BIA actions are consistent with BIA's general mission. Leasing and development of mineral resources offers substantial economic benefits to the Three Affiliated Tribes of the Mandan, Hidatsa, and Arikara Nations and to individual tribal members.

2. Authorities

Oil and gas exploration and development activities are conducted under authority of the Indian Mineral Leasing Act of 1938 (25 United States Code [USC] 396a, et seq.), the Indian Mineral Development Act of 1982 (25 USC 2101, et seq.), and the Energy Policy Act of 2005 (42 USC 15801, et seq.).

3. Legal Land Description for Proposed Action

The pipelines would be located on trust land originating near the east side of the approved Petro-Hunt Fort Berthold #148-95-23C-14-3H,-4H,-5H & #148-95-26B-35-3H,-4H,-5H well pad (well pad) in the SE $\frac{1}{4}$, SW $\frac{1}{4}$ of Section 23, Township (T) 148 North (N), Range (R) 95 West (W), 5th Prime Meridian (P.M.), Dunn County, North Dakota. The proposed pipelines would trend northeast and terminate in the SE $\frac{1}{4}$, SE $\frac{1}{4}$ of Section 23, T148N, R95W, 5th P.M., Dunn County, North Dakota (Figure 1).

4. Scope of Work for Proposed Action

Oil, gas, and produced water pipelines would be buried in either two 2.5-foot-wide trenches, spaced 5.0 feet apart, or one 5.0-foot-wide trench. Oil and gas pipelines would be no greater than 8 inches in diameter and constructed of new steel. The produced water pipeline would also be no greater than 8 inches in diameter and constructed of Fiberspar or similar corrosion-resistant material. All construction disturbances would occur within a 120-foot-wide temporary construction ROW and permanent surface disturbance would occur within a 50-foot-wide ROW between the well pad and the tie-in.

Approximately 2,233 feet of oil, gas, and produced water pipe would be needed to connect the Fort Berthold #148-95-23C-14-3H, -4H, -5H & #148-95-26B-35-3H, -4H, -5H wells to the tie-in. Approximately 6.15 acres would be disturbed as a result of activities associated with the construction of the proposed pipelines. Pipeline plats are provided in Appendix A.

5. Materials Information and Corrosion Rates

Steel Pipe

Arrow proposes to construct the oil and gas pipelines using new steel pipe rated by the American Petroleum Institute (API) as 5L X52. Arrow would ensure that each steel pipe segment is coated with approximately 14 to 16 millimeters of fusion-bonded epoxy coating. Further, Arrow would deploy an active cathodic protection system for all steel pipe, which further reduces the likelihood of external corrosion. Arrow would ensure that each steel pipe segment is allotted a 1/16-inch corrosion allowance; however, because of the non-corrosive nature of Bakken crude and the low concentrations of hydrogen sulfide, Arrow does not anticipate any external or internal corrosion during the operating lifetime of the pipe, which, at a minimum, is estimated to be 50 years.

Fiberspar® or Similar Pipe

Arrow proposes to construct the produced water pipeline using a material known as Fiberspar or one with the same corrosion-resistant characteristics as Fiberspar. This type of material is not subject to internal or external corrosion.

6. Spill Response Plan

Arrow has developed a Spill Response Plan (Plan) (Middick 2011¹) for the Phase 3 Southwest pipeline. The spill preventative measures and monitoring protocols, notification procedures, spill detection and on-scene spill mitigation procedures, response activities, contacts, training and drill procedures, and response plan review and update procedures, as referenced in the Plan, apply to the proposed pipelines. A copy of the Plan has been filed with the BIA, and Arrow has legally committed to adhering to the procedures and requirements as defined by federal law (49 Code of Federal Regulations [CFR] 194). Arrow has committed to submitting a spill response plan, specific to this proposed project, to the BIA prior to the commencement of construction activities.

7. Pipeline Marking Procedures

Arrow adheres to the requirements of 49 CFR 192.707 with regard to the marking of buried pipelines. Specifically, Arrow would place pipeline markers within 1,000 feet of one another at all public road crossings, railroad crossings, creek crossings, fence crossings, and at all points of major direction change.

¹ Middick, A. 2011. *Operations Monitoring and Spill Response Plan*. Blackshare Environmental Solutions. Oklahoma City, Oklahoma.

8. Quality Control/Quality Assurance Measures

Arrow purchases steel pipe that is rated as API 5L X52 and inspects all pipe while at the mill to ensure quality. Arrow is also present to ensure that external epoxy coating is applied to a minimum thickness of 14 millimeters. During construction, all welds are visually inspected for quality and completeness by qualified professionals. Once welds have passed visual inspection, they are subjected to 100% non-destructive testing. After passing these tests, the weld areas are covered for corrosion protection. After the weld areas have been covered, the external coating of the pipe is inspected using a jeepmeter to detect holes and cracks. The pipe is lowered into the trench and buried. Prior to being put into service, the steel pipe is hydrotested to approximately 1.5 times the minimum design pressure of 1,180 pounds per square inch gauge (psig). The produced water pipe is designed to sustain a minimum pressure of 750 psig and is hydrotested to approximately 900 psig prior to being approved for service.

9. Valve Locations

Two valves would be installed at each end of the proposed pipelines. One valve would be installed at the well location while the second valve would be installed at the proposed tie-in. The installation of two valves would allow Arrow to isolate the proposed pipelines, if required.

10. Reclamation

Interim Reclamation

Reclamation would continue to occur over the life of the pipelines. Initial reclamation would be required after initial construction and then following any maintenance work or additions of infrastructure. Reclamation would be required before final abandonment of the decommissioned pipelines. Successful reclamation would at all times be the responsibility of the system's operator.

Trenches would be backfilled immediately after the pipe is installed and testing is complete, assuming frozen or saturated soils are not present. Backfill piles would be stored opposite of the topsoil piles during construction. If construction occurs during winter, Arrow would partially fill the trench with useable, non-frozen, backfill soil to the extent possible and cover the entire ROW, including the trench, with straw. The trench would be backfilled and topsoil distributed as soon as practicable after the soil has defrosted. Topsoil piles would be covered to eliminate the potential for rill erosion and subsequent loss of soil during spring snowmelt and precipitation events.

Applicable short- and long-term best management practices (BMPs) would be used to minimize and control erosion in disturbed areas. To reduce compaction, the ROW would be plowed before the stockpiled topsoil is distributed.

The disturbed areas would be reclaimed and contoured as soon as possible after construction is complete (fall/spring). The ROW would be covered with stockpiled topsoil and seeded with a

seed mixture determined by the BIA. Arrow would control noxious weeds within the ROW and other applicable facilities by approved chemical or mechanical methods. If seeding of the ROW does not occur due to growing season constraints, Arrow would deploy approved weed-free hay across the entire ROW. The presence of hay across the ROW would reduce the potential for excessive erosion as a result of spring snowmelt and precipitation.

The entire ROW would be monitored for erosion, subsidence, and noxious weeds. In areas where problems are found to occur, reclamation efforts would continue until the BIA feels the ROW is successfully reclaimed. Reclamation is considered successful when:

- Seeded areas are established;
- Adjacent vegetative communities spread back into the disturbed areas; and
- Noxious weeds are under control.

If after two growing seasons the new seeding is not successful, the BIA may require additional efforts to establish vegetation. For noxious weeds, a survey was conducted on the ROW prior to the construction commencing. The BIA has developed a weed management plan to treat known or likely to occur noxious weed species.

Final Reclamation

Final reclamation would occur when the pipelines are decommissioned. All disturbed areas would be reclaimed, reflecting the BIA's view of oil and gas exploration and production as temporary intrusions on the landscape. All facilities would be removed. It is economically and environmentally unfeasible to excavate and remove the decommissioned pipelines. Instead, the pipelines would be purged with water of any natural gas remaining in the lines and abandoned in place.

11. Surveys

SWCA Environmental Consultants (SWCA) conducted natural resource surveys for threatened and endangered species and habitat, migratory birds and active nests, bald and golden eagles and nests, and wetlands/waterbodies on November 3 and 4, 2011. BIA Environmental Specialist, Chris McLaughlin, was present during the November 4, 2011, on-site surveys to ensure that the project location minimizes the potential impact to sensitive resources. No wetlands are anticipated to be impacted by the construction of the proposed gathering pipelines. No threatened and endangered species or bald/golden eagles or nests were observed during the natural resource survey; however, golden eagle habitat is present within 0.5 mile of the proposed project area. Migratory bird habitat is prevalent in the survey area and Arrow has committed to following one of the following three mitigation procedures in order to reduce the potential for impact on migratory birds, including eagles, and their nests: 1) conduct construction outside the migratory bird breeding season (February 1–July 15); 2) regularly mow vegetation in the ROW prior to February 1 and maintain through July 15; or 3) conduct a field survey for nesting migratory birds

within five days of construction commencement. No adverse effects are expected on golden eagles or migratory birds due to the proposed project.

A cultural resource inventory of this pipeline route was conducted by personnel of SWCA Environmental Consultants, using an intensive pedestrian methodology. Approximately 7.41 acres were inventoried on November 3, 2011 (Cox et al. 2012). No historic properties were located that appear to possess the quality of integrity and meet at least one of the criteria (36 CFR 60.6) for inclusion on the National Register. As the lead federal agency, and as provided for in 36 CFR 800.5, on the basis of the information provided, BIA reached a determination of **no historic properties affected** for this undertaking. This determination was communicated to the THPO on August 24, 2012; however the THPO did not respond within the allotted 30 day comment period.

12. Potential Effects

Potential direct impacts to cultural resource sites would occur as a result of disturbance and/or the loss of sites eligible for the National Register of Historic Places. However, no cultural resources were identified during the field survey; therefore, no impact is anticipated.

Potential direct impacts to natural resources may include the loss of native vegetation and wildlife habitat, soil disturbance, and erosion during construction that may adversely affect air and water quality. Impacts would be mitigated by using BMPs during construction to minimize disturbance. Once construction activities are completed, reclamation would take place within 6 months and would include the return of topsoil and contouring, and seeding of native vegetation.

General Best Management Practices

Although largely project-specific, there are a number of BMPs that can and should be considered. The following are examples of general BMPs used by Arrow:

- Minimizing topsoil removal;
- Avoiding removal of, and damage to, trees, shrubs, and groundcover where possible;
- Grinding trees and other woody material removed from the ROW and adding to the topsoil;
- Planning for erosion control, including use of straw roll and silt fence check dams, as well as erosion control matting when necessary;
- Avoiding or minimizing topographic alterations, activities on steep slopes, and disturbances within stream channels and floodplains to the extent possible;
- Recontouring disturbed areas to approximate the original contours of the landscape; and
- During reclamation, redistributing and reseeding the topsoil on the disturbed areas, and protecting and maintaining reclaimed areas until the sites are fully stabilized.

Potential indirect impacts include noise and other disturbances to wildlife during construction and the introduction of noxious weeds. Impacts would be mitigated through avoidance of any federally listed threatened or endangered species or wetlands, avoidance of nesting migratory birds, implementing BMPs to control the introduction of noxious weeds, and minimizing the length of time between trenching, pipeline burial, and reclamation. These mitigation measures are consistent with the approved NEPA document, which received a finding of no significant impact (FONSI) (September 2011).

13. Applicable NEPA Document(s)

- *Environmental Assessment and Finding of No Significant Impact: Arrow Pipeline, LLC Phase 3 Southwest Pipeline (September 2011).*

14. Other Relevant NEPA Document(s)

- *Addendum to Environmental Assessment to Authorize Land Use for Pipelines Connecting the Fort Berthold #148-95-24C-13-1H, -2H & #148-95-25B-36-1H, -2H Wells to the Existing Arrow Phase 3 Southwest Pipeline System (December 2011).*
- *Addendum to Environmental Assessment to Authorize Land Use for Pipelines Connecting the Petro-Hunt Fort Berthold #148-95-23D-14-1H, -2H / Fort Berthold #148-95-26A-35-1H, -2H Wells to the Arrow Fort Berthold #148-95-24C-13-1H / Fort Berthold #148-95-25B-36-1H Pipeline System (July 2012).*
- *Cox, Matthew, Cole Wandler and Jolene Schleicher (2012) A Class I and Class III Cultural Resource Inventory of the Arrow Fort Berthold #148-95-23C-14-3H, -4H, -5H and #148-95-26B-35-3H, -4H, 5H Pipeline System, Fort Berthold Indian Reservation, Dunn County, North Dakota. SWCA Environmental Consultants for Arrow Pipeline, LLC, Tulsa, OK.*

15. NEPA Adequacy Criteria

This document has identified three previously prepared NEPA documents, *Environmental Assessment and Finding of No Significant Impact: Arrow Pipeline, LLC Phase 3 Southwest Pipeline (September 2011)*; *Addendum to Environmental Assessment to Authorize Land Use for Pipelines Connecting the Fort Berthold #148-95-24C-13-1H, -2H & #148-95-25B-36-1H, -2H Wells to the Existing Arrow Phase 3 Southwest Pipeline System (December 2011)*; and *Addendum to Environmental Assessment to Authorize Land Use for Pipelines Connecting the Petro-Hunt Fort Berthold #148-95-23D-14-1H, -2H / Fort Berthold #148-95-26A-35-1H, -2H Wells to the Arrow Fort Berthold #148-95-24C-13-1H / Fort Berthold #148-95-25B-36-1H Pipeline System (June 2012)*, which adequately describe the environmental consequences of the newly proposed action described herein and meet the following NEPA adequacy criteria:

1. The proposed action is substantially the same action and at the site specifically analyzed in the existing NEPA documents.

*Addendum to Environmental Assessment to Authorize Land Use for Pipelines Connecting the Fort Berthold #148-95-23C-14-3H,-4H,-5H & #148-95-26B-35-3H,-4H,-5H Wells to the Approved Arrow Fort Berthold #148-95-23D-14-1H, -2H & #148-95-26A-35-1H, -2H Pipeline System
(October 2012)*

2. The range of alternatives is reasonable with respect to the current proposed action in the existing NEPA documents, which appropriately consider and analyze current environmental concerns, interests, and resource values.
3. The existing analysis and conclusions are adequate in the existing NEPA documents. The analysis is still valid in light of new studies or resource assessment information.
4. The methodology and analytical approach used in the existing NEPA documents continues to be appropriate for the proposed action.
5. The direct and indirect impacts of the proposed action are unchanged from those identified in the existing NEPA documents.
6. The cumulative impacts that would result from implementation of the proposed action are unchanged from those analyzed in the existing NEPA documents.
7. A 30-day comment period involving public input and interagency review was used in the development of the existing NEPA documents.

Addendum to Environmental Assessment to Authorize Land Use for Pipelines Connecting the Fort Berthold #148-95-23C-14-3H,-4H,-5H & #148-95-26B-35-3H,-4H,-5H Wells to the Approved Arrow Fort Berthold #148-95-23D-14-1H, -2H & #148-95-26A-35-1H, -2H Pipeline System (October 2012)

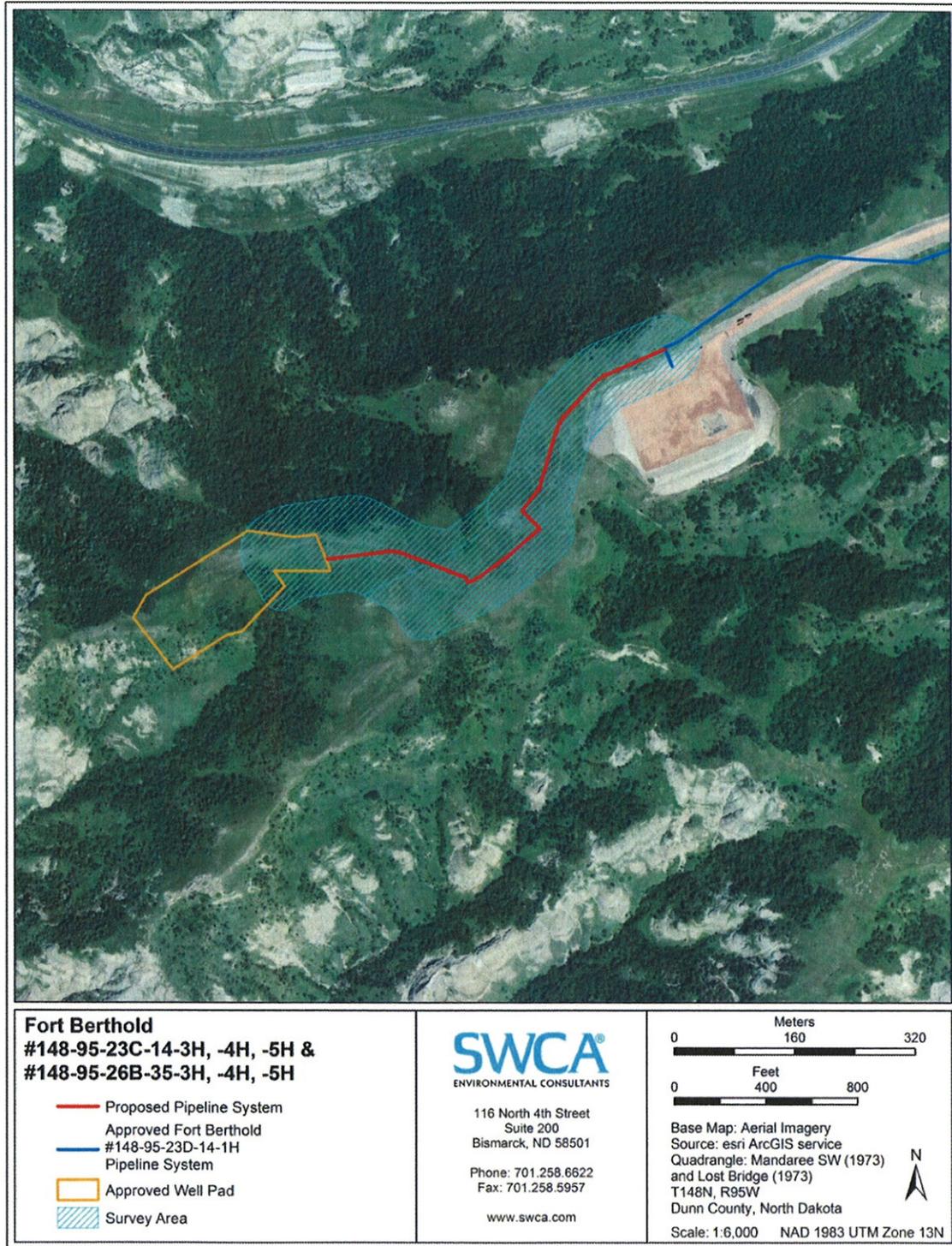


Figure 1. Proposed Fort Berthold #148-95-23C-14-3H,-4H,-5H & 148-95-26B-35-3H,-4H,-5H Pipeline System.

*Addendum to Environmental Assessment to Authorize Land Use for Pipelines Connecting the Fort Berthold #148-95-23C-14-3H, -4H, -5H & #148-95-26B-35-3H, -4H, -5H Wells to the Approved Arrow Fort Berthold #148-95-23D-14-1H, -2H & #148-95-26A-35-1H, -2H Pipeline System
(October 2012)*



IN REPLY REFER TO:
DESCRM
MC-208

United States Department of the Interior

BUREAU OF INDIAN AFFAIRS
Great Plains Regional Office
115 Fourth Avenue S.E., Suite 400
Aberdeen, South Dakota 57401

AUG 24 2012

Elgin Crows Breast, THPO
Mandan, Hidatsa and Arikara Nation
404 Frontage Road
New Town, North Dakota 58763

Dear Mr. Crows Breast:

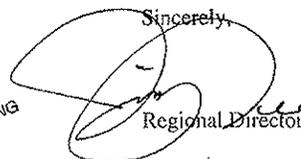
We have considered the potential effects on cultural resources of an oil pipeline system in Dunn County, North Dakota. Approximately 7.41 acres were intensively inventoried using a pedestrian methodology. Potential surface disturbances are not expected to exceed the area depicted in the enclosed report. No historic properties were located which appear to possess the quality of integrity and meet at least one of the criteria (36 C.F.R. § 60.4) for inclusion on the National Register of Historic Places. No properties were located that appear to qualify for protection under the American Indian Religious Freedom Act (42 U.S.C. § 1996 [1994]).

As the surface management agency, and as provided for in 36 C.F.R. § 800.5 (2005), we have therefore reached a determination of **no historic properties affected** for this undertaking. Catalogued as **BIA Case Number AAO-3032/FB/12**, the proposed undertaking, location, and project dimensions are described in the following report:

Cox, Matthew, Cole Wandler and Jolene Schleicher
(2012) A Class I and Class III Cultural Resource Inventory of the Arrow Fort Berthold #148-95-23C-14-3H, -4H, -5H and #148-95-26B-35-3H, -4H, 5H Pipeline System, Fort Berthold Indian Reservation, Dunn County, North Dakota. SWCA Environmental Consultants for Arrow Pipeline, LLC, Tulsa, OK.

If your office concurs with this determination, consultation will be completed under the National Historic Preservation Act and its implementing regulations. We will adhere to the Standard Conditions of Compliance.

If you have any questions, please contact Dr. Carson N. Murdy, Regional Archaeologist, at (605) 226-7656.

Sincerely,

ACTING Regional Director

Enclosure

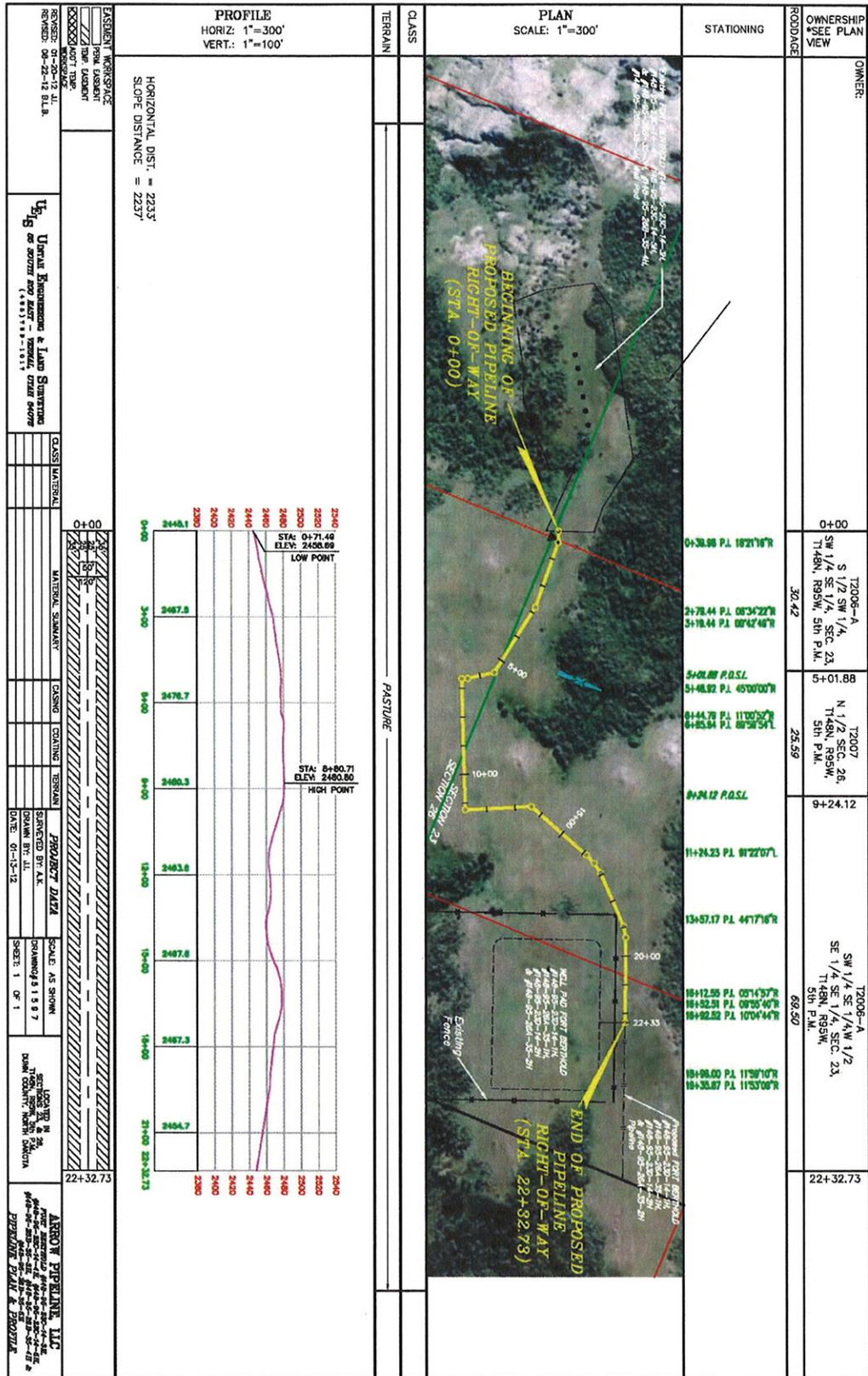
cc: Chairman, Three Affiliated Tribes
Superintendent, Fort Berthold Agency

*Addendum to Environmental Assessment to Authorize Land Use for Pipelines Connecting the Fort
Berthold #148-95-23C-14-3H,-4H,-5H & #148-95-26B-35-3H,-4H,-5H Wells to the Approved Arrow
Fort Berthold #148-95-23D-14-1H, -2H & #148-95-26A-35-1H, -2H Pipeline System
(October 2012)*

APPENDIX A

**Pipeline Layout and Pipeline Right-of-Way for
Fort Berthold #148-95-23C-14-3H,-4H,-5H & 148-95-26B-35-3H,-4H,-5H Pipeline
System**

Addendum to Environmental Assessment to Authorize Land Use for Pipelines Connecting the Fort Berthold #148-95-23C-14-3H, -4H, -5H & #148-95-26B-35-3H, -4H, -5H Wells to the Approved Arrow Fort Berthold #148-95-23D-14-1H, -2H & #148-95-26A-35-1H, -2H Pipeline System (October 2012)



*Addendum to Environmental Assessment to Authorize Land Use for Pipelines Connecting the Fort Berthold #148-95-23C-14-3H,-4H,-5H & #148-95-26B-35-3H,-4H,-5H Wells to the Approved Arrow Fort Berthold #148-95-23D-14-1H, -2H & #148-95-26A-35-1H, -2H Pipeline System
(October 2012)*

ARROW PIPELINE, LLC
FORT BERTHOLD
#148-95-23C-14-3H, #148-95-23C-14-4H,
#148-95-23C-14-5H, #148-95-26B-35-3H,
#148-95-26B-35-4H & #148-95-26B-35-5H
PIPELINE RIGHT-OF-WAY
SECTIONS 23, & 26, T148N, R95W, 5th P.M.

TOTAL PIPELINE RIGHT-OF-WAY ON TRIBAL LANDS

TOTAL LENGTH OF RIGHT-OF-WAY IS 2232.73' OR 0.423 MILES. WIDTH OF RIGHT-OF-WAY IS 50' (25' PERPENDICULAR ON EACH SIDE OF THE CENTERLINE). CONTAINS 2.563 ACRES MORE OR LESS.

ENGINEER'S AFFIDAVIT

STATE OF MONTANA }
COUNTY OF RICHLAND } SS

TROY JENSEN, BEING FIRST DULY SWORN DEPOSES AND STATES THAT HE IS THE REGISTERED LAND SURVEYOR, FOR ARROW PIPELINE, LLC, THAT THESE SURVEYS WERE MADE BY HIM (OR UNDER HIS SUPERVISION): THAT HE HAS EXAMINED THE FIELD NOTES OF THE SURVEYS OF THE PIPELINE RIGHT-OF-WAY AS DESCRIBED AND SHOWN ON THIS MAP, THAT THIS MAP WAS PREPARED UNDER HIS DIRECTION FROM SAID FIELD NOTES; AND THAT SAID RIGHT-OF-WAY, BEGINNING AND ENDING AS SHOWN ON THIS MAP IS ACCURATELY REPRESENTED.




REGISTERED LAND SURVEYOR
REGISTRATION NO. 4654
STATE OF NORTH DAKOTA

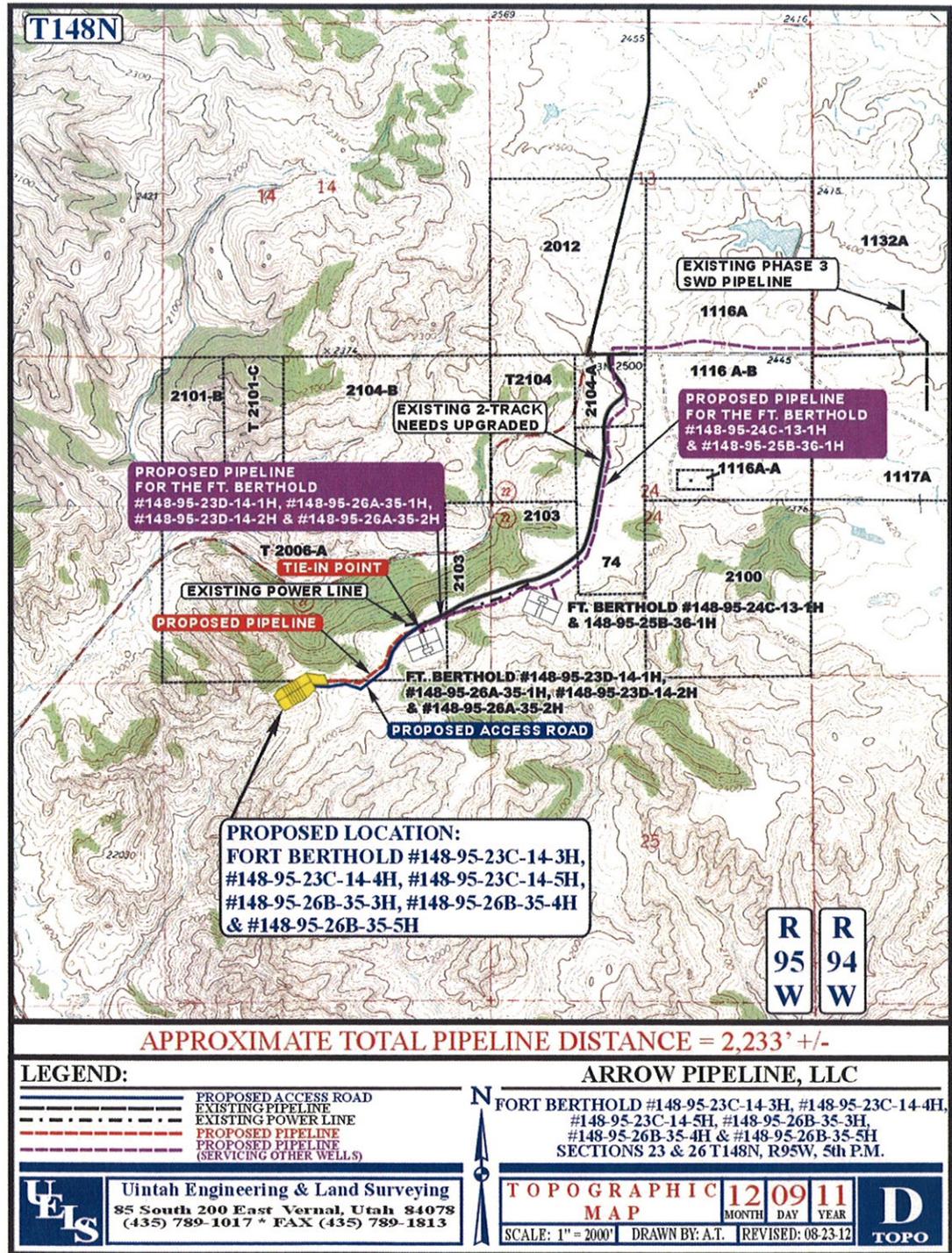
APPLICANT'S CERTIFICATE

I, DOUGLAS M. LEE, PE, DO HEREBY CERTIFY THAT I AM THE SR. V.P. OF OPERATIONS FOR, ARROW PIPELINE, LLC, HEREINAFTER DESIGNATED THE APPLICANT; THAT TROY JENSEN WHO SUBSCRIBED TO THE FOREGOING AFFIDAVIT, IS EMPLOYED BY THE APPLICANT AS A LAND SURVEYOR AND THAT HE WAS DIRECTED BY THE APPLICANT TO SURVEY THE LOCATION OF THIS PIPELINE RIGHT-OF-WAY, 0.423 MILES IN LENGTH BEGINNING AT STA. 0+00 AND ENDING AT STA. 22+32.73, THAT SAID PIPELINE RIGHT-OF-WAY IS ACCURATELY REPRESENTED ON THIS MAP; THAT SUCH SURVEY AS REPRESENTED ON THIS MAP HAS BEEN ADOPTED BY THE APPLICANT AS THE DEFINITE LOCATION OF THE RIGHT-OF-WAY THEREBY SHOWN; AND THAT THE MAP HAS BEEN PREPARED TO BE FILED WITH THE SECRETARY OF THE INTERIOR OR HIS DULY AUTHORIZED REPRESENTATIVE AS PART OF THE APPLICATION FOR SAID RIGHT-OF-WAY TO BE GRANTED THE APPLICANT, ITS SUCCESSORS AND ASSIGNS, WITH THE RIGHT TO CONSTRUCT, MAINTAIN, AND REPAIR IMPROVEMENTS, THEREON AND THEREOVER, FOR SUCH PURPOSES, AND WITH THE FURTHER RIGHT IN THE APPLICANT, ITS SUCCESSORS AND ASSIGNS TO TRANSFER THIS RIGHT-OF-WAY BY ASSIGNMENT, GRANT, OR OTHERWISE.

APPLICANT

SR. V.P. OF OPERATIONS
TITLE

Addendum to Environmental Assessment to Authorize Land Use for Pipelines Connecting the Fort Berthold #148-95-23C-14-3H,-4H,-5H & #148-95-26B-35-3H,-4H,-5H Wells to the Approved Arrow Fort Berthold #148-95-23D-14-1H, -2H & #148-95-26A-35-1H, -2H Pipeline System (October 2012)



Notice of Availability and Appeal Rights

Arrow Pipeline: Addendum to Environmental Assessment to Authorize Land Use for Gathering Pipelines Connecting the Fort Berthold #148-95-23C-14-3H,-4H,-5H & #148-95-26B-35-3H,-4H,-5H Wells to the Arrow Fort Berthold #148-95-23D-14-1H,-2H & #148-95-26A-35-1H,-2H Pipeline

The Bureau of Indian Affairs (BIA) is planning to issue administrative approvals for Gathering Pipelines Connecting the Fort Berthold #148-95-23C-14-3H,-4H,-5H & #148-95-26B-35-3H,-4H,-5H Wells to the Arrow Fort Berthold #148-95-23D-14-1H,-2H & #148-95-26A-35-1H,-2H Pipeline on the Berthold Reservation as shown on the attached map. Construction by Arrow is expected to begin in 2012.

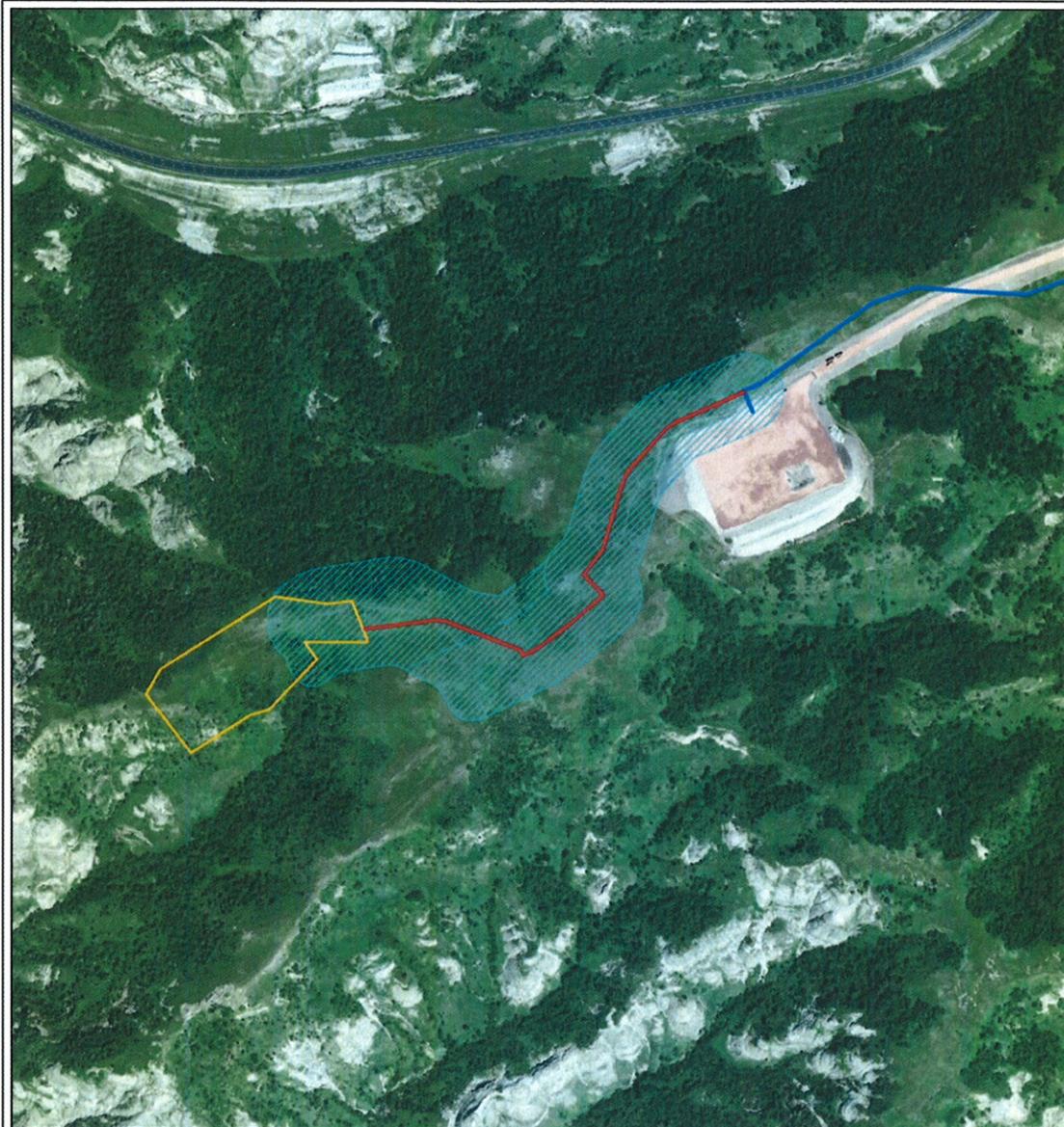
An environmental assessment (EA) determined that proposed activities will not cause significant impacts to the human environment. An environmental impact statement is not required. Contact Earl Silk, Superintendent at 701-627-6570 for more information and/or copies of the EA and the Finding of No Significant Impact (FONSI).

The FONSI is only a finding on environmental impacts – it is not a decision to proceed with an action and *cannot* be appealed. BIA's decision to proceed with administrative actions *can* be appealed until November 3, 2012, by contacting:

**United States Department of the Interior
Office of Hearings and Appeals
Interior Board of Indian Appeals
801 N. Quincy Street, Suite 300, Arlington, Va 22203.**

Procedural details are available from the BIA Fort Berthold Agency at 701-627-6570.

Project locations.



Fort Berthold
#148-95-23C-14-3H, -4H, -5H &
#148-95-26B-35-3H, -4H, -5H

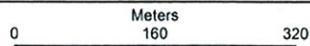
- Proposed Pipeline System
- Approved Fort Berthold #148-95-23D-14-1H Pipeline System
- Approved Well Pad
- Survey Area



116 North 4th Street
 Suite 200
 Bismarck, ND 58501

Phone: 701.258.6622
 Fax: 701.258.5957

www.swca.com



Base Map: Aerial Imagery
 Source: esri ArcGIS service
 Quadrangle: Mandaree SW (1973)
 and Lost Bridge (1973)
 T148N, R95W
 Dunn County, North Dakota



Scale: 1:6,000 NAD 1983 UTM Zone 13N