



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

JUL 05 2012

MEMORANDUM

TO: Superintendent, Fort Berthold Agency

FROM: 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 authorizes land use for the construction of the Arrow Station #6, Phase 2E-BIA 13 Compressor and Pump Station on the existing Phase 2E-BIA 13 pipeline system on the Fort Berthold Reservation.

All the necessary requirements of the National Environmental Policy Act have been completed. Attached for your files is a copy of the EA, 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)
Mike Cook, SWCA (with attachment)
Carson Hood/Fred Fox, MHA Energy Dept. (with attachment)
Jonathon Shelman, Corps of Engineers
Jeff Hunt, Fort Berthold Agency

Finding of No Significant Impact

Arrow Pipeline, LLC

Addendum to Environmental Assessment to Authorize Land Use for the Construction of the Arrow Station #6: Phase 2E-BIA 13 Compressor and Pump Station on the Existing Phase 2E-BIA 13 Pipeline System

*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 of the Arrow Station #6: Phase 2E-BIA 13 Compressor and Pump Station on the Existing Phase 2E-BIA 13 Pipeline System. The proposed station would be located approximately 14.4 miles east of Mandaree, North Dakota, in the NW¼ and NE¼ of the NW¼ Section 17, Township (T) 149 North (N), Range (R) 91 West (W), Dunn County, North Dakota. The proposed pipelines would originate from the north side of the station in the NE¼ NW¼ of Section 17, T149N, R91W, trend north and terminate at the existing tie-in in the SE¼ SW¼ Section 8, T149N, R91W, 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.



Regional Director

7-5-2012

Date

Notice of Availability and Appeal Rights

Arrow Pipeline, LLC: Addendum to Environmental Assessment to Authorize Land Use for the Construction of the Arrow Station #6: Phase 2E-BIA 13 Compressor and Pump Station on the Existing Phase 2E-BIA 13 Pipeline System

The Bureau of Indian Affairs (BIA) is planning to issue administrative approvals for the Construction of the Arrow Station #6: Phase 2E-BIA 13 Compressor and Pump Station on the Existing Phase 2E-BIA 13 Pipeline System on the Berthold Reservation as shown on the attached map. Construction by Arrow is expected to begin in 2012.

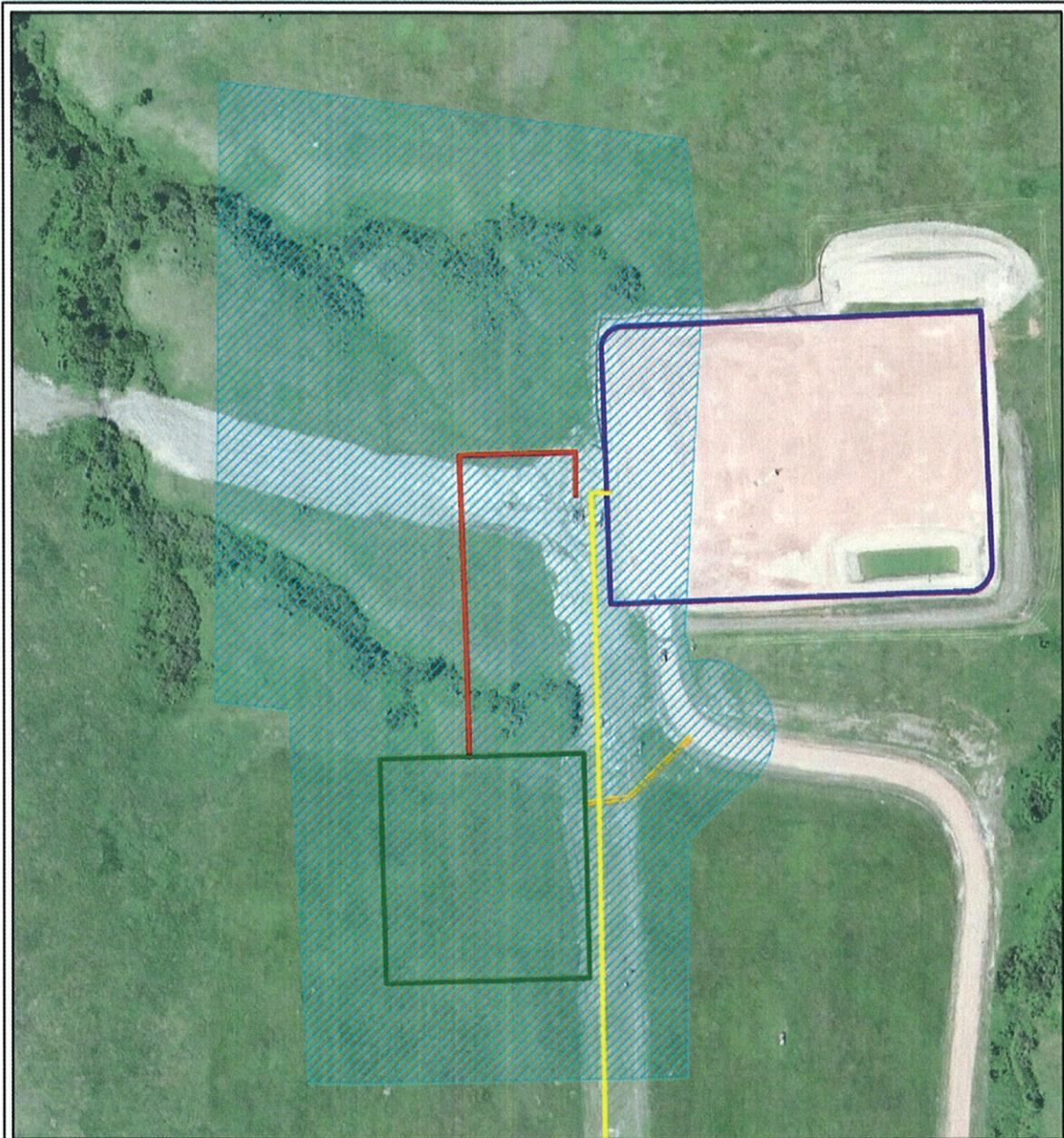
An environmental assessment (EA) determined that proposed activities will not cause significant impacts to the human environment. An environmental impact statement is not required. Contact Earl Silk, Superintendent at 701-627-6570 for more information and/or copies of the EA and the Finding of No Significant 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 August 4, 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 701-627-4707.

Project locations.



**Station #6: Phase 2E
BIA 13 Compressor**

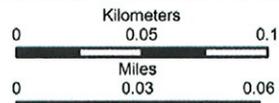
-  Proposed Access Road
-  Proposed Pipeline
-  Existing Arrow Phase
2E BIA 13 Pipeline
-  Existing Beaks #24X-8 and
Huntsmedicine #24X-8 Well Pad
-  Proposed Compressor Station
-  Survey Area

SWCA[®]
ENVIRONMENTAL CONSULTANTS

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: Saddle Butte (1973)
T149N, R91W
Dunn County, North Dakota



Scale: 1:3,000 NAD 1983 UTM Zone 13N

**ENVIRONMENTAL ASSESSMENT
Addendum**

United States Bureau of Indian Affairs

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



Arrow Pipeline, LLC

**Addendum to Environmental Assessment to Authorize Land Use for the Construction of
the Arrow Station #6: Phase 2E-BIA 13 Compressor and Pump Station on the Existing
Phase 2E-BIA 13 Pipeline System**

Fort Berthold Indian Reservation

June 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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Appendix

A Right-of-Way for Arrow Station #6: Phase 2E-BIA 13 Compressor/Pump Station and Pipeline System	
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1. Purpose and Need for the Proposed Action

The purpose of the proposed action is to authorize land use by Arrow Pipeline, LLC (Arrow) for the construction of the Arrow Station #6: Phase 2E-BIA 13 Compressor and Pump Station (station). The station would support existing Arrow pipeline systems and associated lateral pipelines on the Fort Berthold Indian Reservation by compressing natural gas and pumping crude oil. The station would subsequently facilitate the transport of increasing natural gas and crude oil volumes to market. Additionally, Arrow is proposing to construct pipelines that will connect the Arrow Phase 2E-BIA 13 pipeline system (tie-in) to the station. These developments have been proposed on land held in trust by the United States in Dunn County, North Dakota.

The Bureau of Indian Affairs (BIA) is the surface management agency for potentially affected tribal lands and individual allotments. The BIA also holds title to subsurface mineral rights. 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 Nation 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 proposed station would be located approximately 14.4 miles east of Mandaree, North Dakota, in the NW $\frac{1}{4}$ and NE $\frac{1}{4}$ of the NW $\frac{1}{4}$ Section 17, Township (T) 149 North (N), Range (R) 91 West (W), Dunn County, North Dakota.

The proposed pipelines would originate from the north side of the station in the NE $\frac{1}{4}$ NW $\frac{1}{4}$ of Section 17, T149N, R91W, trend north and terminate at the existing tie-in in the SE $\frac{1}{4}$ SW $\frac{1}{4}$ Section 8, T149N, R91W, Dunn County, North Dakota.

4. Scope of Work for Proposed Action

Arrow has proposed to construct the station in order to compress and propel gathered natural gas and pump crude oil to market. In total, construction of the proposed station and access road would impact approximately 4.46 acres. Arrow would install one 740-horsepower gas-driven generator at the station. Additional above-ground equipment that would be installed at the station includes one 96-inch (outside diameter) Inlet Slug Catcher; a filter separator; two 1,000-bbl storage tanks and two 400-bbl water tanks; a header system for suction and discharge piping; and a pig launcher and pig receiver.

Compression would be powered by two 1,780-horsepower Waukesha/Frick gas-driven engines that run continuously on collected natural gas and monitored through the use of a Supervisory Control and Data Acquisition system, as well as daily visits by Arrow personnel. Natural gas temperatures would be reduced through the use of air coolers.

In addition, Arrow proposes to construct and install oil, gas, and produced water pipelines that would originate from the north side of the station and connect to the existing tie-in. 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 larger than 8 inches in diameter and constructed of new steel. The water pipeline would also be no larger than 8 inches in diameter and constructed of Fiberspar[®] or similar material. Approximately 659 feet of oil, gas, and produced water pipeline would be needed to connect the station to the tie-in (Appendix A). All construction disturbances would occur within a 120-foot-wide temporary right-of-way (ROW) between the station and the tie-in, which has been surveyed for impacts to natural and cultural resources with no significant findings. Arrow will maintain a 50-foot-wide permanent ROW after construction has been completed. In total, approximately 1.81 acres would be disturbed as a result of activities associated with the construction of the proposed gathering pipelines. Pipeline and compressor station 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

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

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 (Title 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, and fence crossings, and at all points of major direction change.

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 percent 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 and 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 over the life of the station and pipelines and would include the return of topsoil, and contouring and seeding of native vegetation. Initial reclamation would be required 6 months after construction, if environmentally feasible, and then following any maintenance work or additions of infrastructure. Reclamation would be required before final abandonment of the decommissioned station and pipelines. A successful reclamation would at all times be the responsibility of the operator.

Applicable short- and long-term best management practices would be used to minimize and control erosion in disturbed areas. To reduce compaction, the station and pipeline 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 disturbed area outside of the working station 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 snow melt 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. 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 station and 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. Access roads and work areas would be leveled or backfilled as necessary, scarified, recontoured, and seeded.

11. Resource Surveys

SWCA Environmental Consultants (SWCA) conducted natural resource surveys for threatened and endangered species habitat, migratory bird nesting habitat, bald and golden eagle nests, and wetlands/waterbodies on February 8, March 21, and April 5, 2012. BIA Environmental Specialist Chris McLaughlin was present on April 5 and determined that, as proposed, the location of the project would minimize the impact to sensitive resources to the extent practicable. The area surrounding the proposed station may act as suitable nesting habitat for two candidate species, Dakota skipper (*Hesperia dacotae*) and Sprague's pipit (*Anthus spragueii*). No bald eagles (*Haliaeetus leucocephalus*) or golden eagles (*Aquila chrysaetos*), or nests were observed within 0.5 mile of the project area during the natural resource surveys. Also, migratory bird habitat is prevalent in the survey area and Arrow has committed to following one of the following three listed mitigation procedures in order to

reduce the potential for impact on migratory birds and their nests: 1) conduct construction outside of the migratory bird breeding season (i.e., between July 16–January 31); 2) regularly mow vegetation in the ROW prior to February 1 and maintain through July 15 or until construction has commenced; or 3) conduct a field survey for active migratory bird nests within five days of construction commencement and if located, notify the BIA and U.S. Fish and Wildlife Service.

Wildlife observed during natural resource surveys included horned lark (*Eremophila alpestris*), snow bunting (*Plectrophenax nivalis*), black-capped chickadee (*Poecile atricapillus*), and Richardson's ground squirrel (*Spermophilus richardsonii*). Herbaceous upland plant species observed within the project area included little bluestem (*Schizachyrium scoparium*), Kentucky bluegrass (*Poa pratensis*), purple coneflower (*Echinacea angustifolia*), goldenrod (*Solidago* spp.), big bluestem (*Andropogon gerardii*), prairie rose (*Rosa arkansana*), yellow sweetclover (*Melilotus officinalis*), prairie sagewort (*Artemisia frigida*), bluebunch wheatgrass (*Pseudoroegneria spicata*), and western snowberry (*Symphoricarpos occidentalis*).

A cultural resource inventory of this compressor station site was conducted by personnel of SWCA Environmental Consultants, using an intensive pedestrian methodology. Approximately 20.85 acres were inventoried between February 8 and March 21, 2012 (Wandler and Leroy 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 June 5, 2012; however, the THPO did not respond within the allotted 30 day comment period.

Wandler, Cole, and Adam Leroy

(2012) A Class I and Class III Cultural Resource Inventory of the Arrow Station #6: Phase 2E BIA 13 Compressor Station, Fort Berthold Indian Reservation, Dunn County, North Dakota. SWCA Environmental Consultants for Arrow Pipeline, LLC, Tulsa, OK.

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 recorded within the surveyed area.

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 best management practices during construction to minimize disturbance. Once construction activities are completed, reclamation would take place and would include the return of topsoil and contouring, and seeding of native vegetation. Arrow commits to beginning the reclamation process no later than 6 months after construction activities are completed.

Potential indirect impacts include noise and other disturbances to wildlife during construction and the introduction of noxious weeds. Impacts would be mitigated by avoiding any federally listed threatened or endangered species or wetlands, avoiding of nesting migratory birds, implementing best management practices 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 National Environmental Policy Act (NEPA) document, which received a finding of no significant impact (September 2010).

13. Additional Station-Specific Commitments

- As of June 2012, Arrow has not finalized the master station layout but has committed to keep all disturbance within the exterior boundary of the station as proposed and depicted in Figure 1 and shown in Appendix A. Arrow will provide a detailed drawing showing the location of all station components to the BIA prior to the commencement of ground-disturbing activities.
- As of June 2012, Arrow is developing a permit to satisfy the requirements of the U.S. Environmental Protection Agency (EPA) Federal Minor New Source Review rule, codified in 40 CFR 49.151. As required by the EPA, construction of new equipment that will introduce regulated emissions would be restricted until Arrow has acquired authorization to proceed from the EPA. As such, Arrow has committed to submitting the requisite authorization to the BIA prior to constructing any new sources of regulated emissions as required by the EPA.

14. Applicable NEPA Documents

- *Finding of No Significant Impact: Arrow Pipeline Phase 2E-BIA 13 Oil, Gas & Water Gathering System* (September 2010).

15. NEPA Adequacy Criteria

This document has identified the above-mentioned previously prepared NEPA document, which adequately describes the environmental consequences of the newly proposed action described herein, and meets the following NEPA Adequacy Criteria.

1. The proposed action is substantially the same action and at the site specifically analyzed in the existing NEPA document.
2. The range of alternatives is reasonable with respect to the current proposed action in the existing NEPA document, which appropriately considers and analyzes current environmental concerns, interests, and resource values.
3. The existing analysis and conclusions are adequate in the existing NEPA document. 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 document continues to be appropriate for the proposed action.

Addendum to Environmental Assessment to Authorize Land Use for the Construction of the Arrow Station #6: Phase 2E-BIA 13 Compressor and Pump Station on the Existing Phase 2E BIA 13 Pipeline System (June 2012)

5. The direct and indirect impacts of the proposed action are unchanged from those identified in the existing NEPA document.
6. The cumulative impacts that would result from implementation of the proposed action are unchanged from those analyzed in the existing NEPA document.
7. A 30-day comment period involving public input and interagency review was used in the development of the existing NEPA document.

Addendum to Environmental Assessment to Authorize Land Use for the Construction of the Arrow Station #6: Phase 2E-BIA 13 Compressor and Pump Station on the Existing Phase 2E BIA 13 Pipeline System (June 2012)

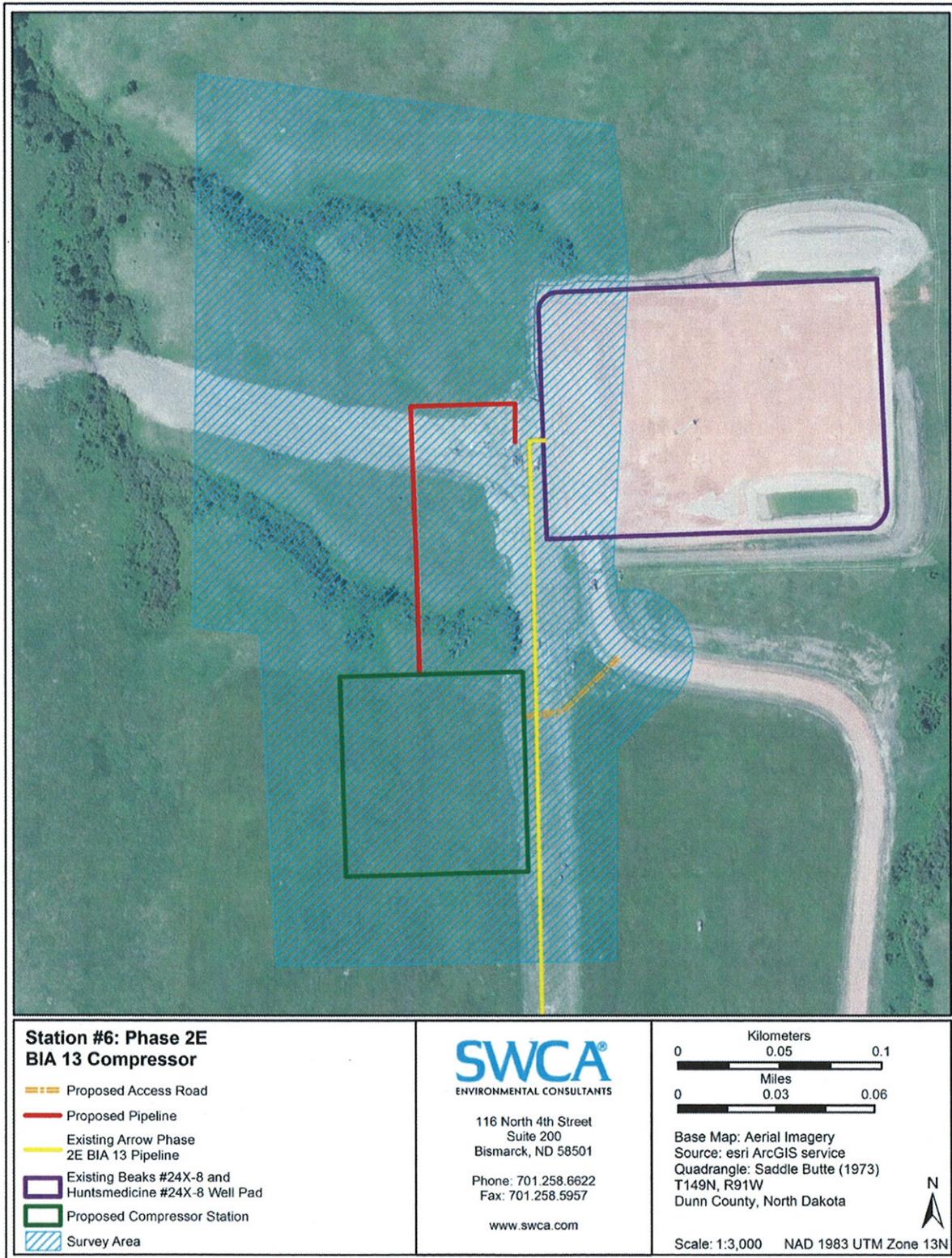


Figure 1. Proposed Arrow Station #6: Phase 2E-BIA 13 Station and Pipeline location.

Addendum to Environmental Assessment to Authorize Land Use for the Construction of the Arrow Station #6: Phase 2E-BIA 13 Compressor and Pump Station on the Existing Phase 2E BIA 13 Pipeline System (June 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



JUN 05 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 a proposed compressor station and ancillary facilities in Dunn County, North Dakota. Approximately 20.85 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 that appear to possess the quality of integrity and meet at least one of the criteria (36 CFR 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 USC 1996).

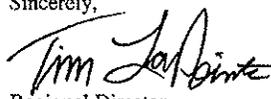
As the surface management agency, and as provided for in 36 CFR 800.5, we have therefore reached a determination of **no historic properties affected** for this undertaking. Catalogued as **BIA Case Number AAO-2059/FB/12**, the proposed undertaking, location, and project dimensions are described in the following report:

Wandler, Cole, and Adam Leroy
(2012) A Class I and Class III Cultural Resource Inventory of the Arrow Station #6: Phase 2E BIA 13 Compressor Station, 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

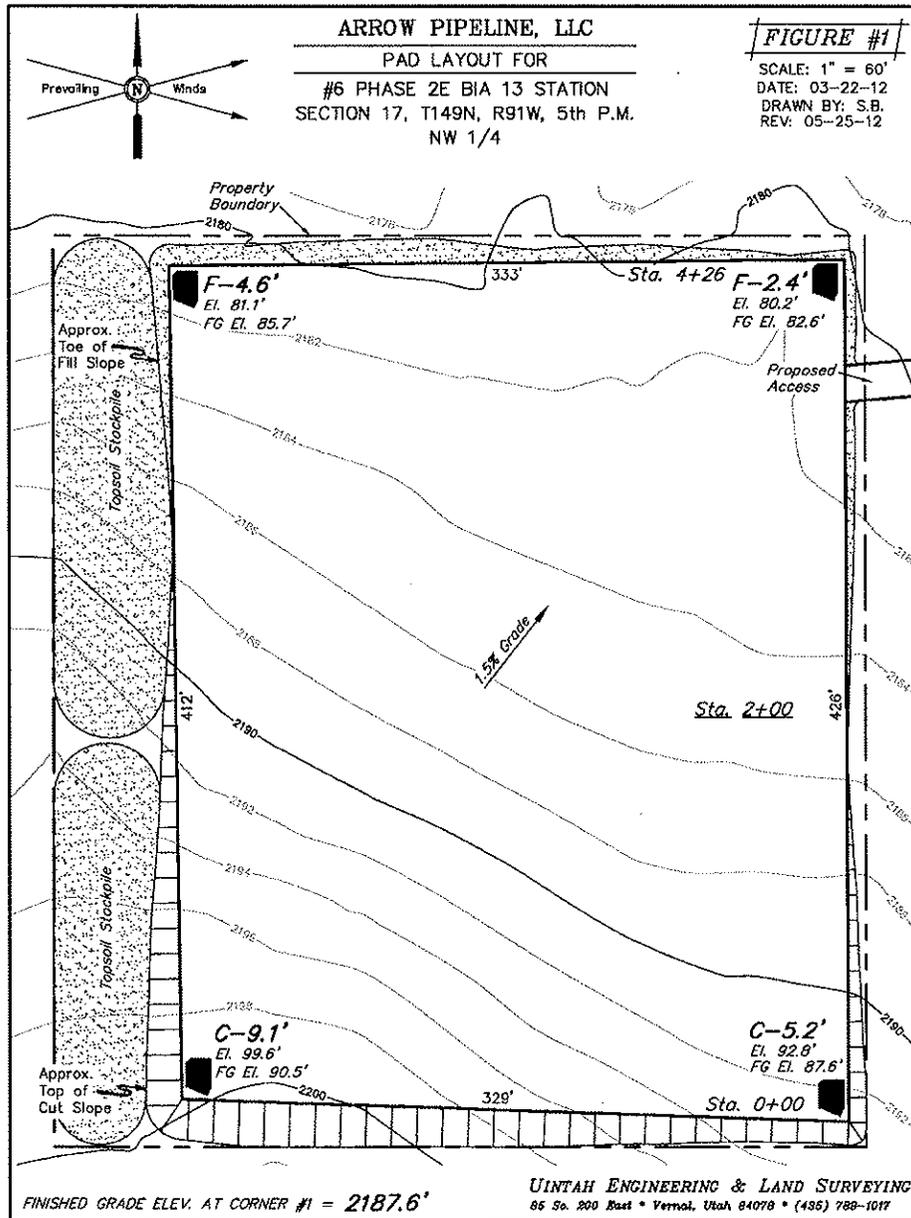
Enclosure

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

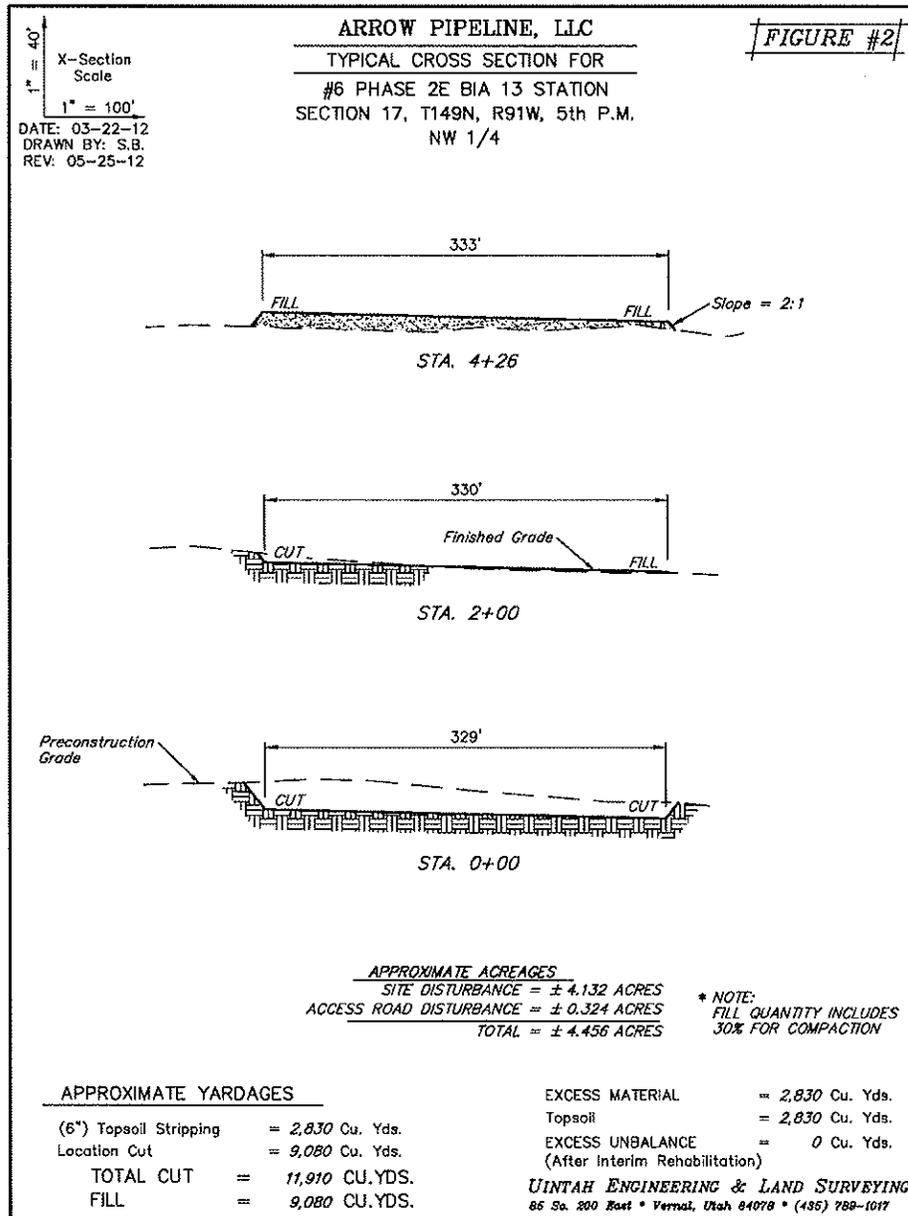
APPENDIX A

Right-of-Way for Arrow Station #6: Phase 2E-BIA 13 Compressor/Pump Station and Pipeline System

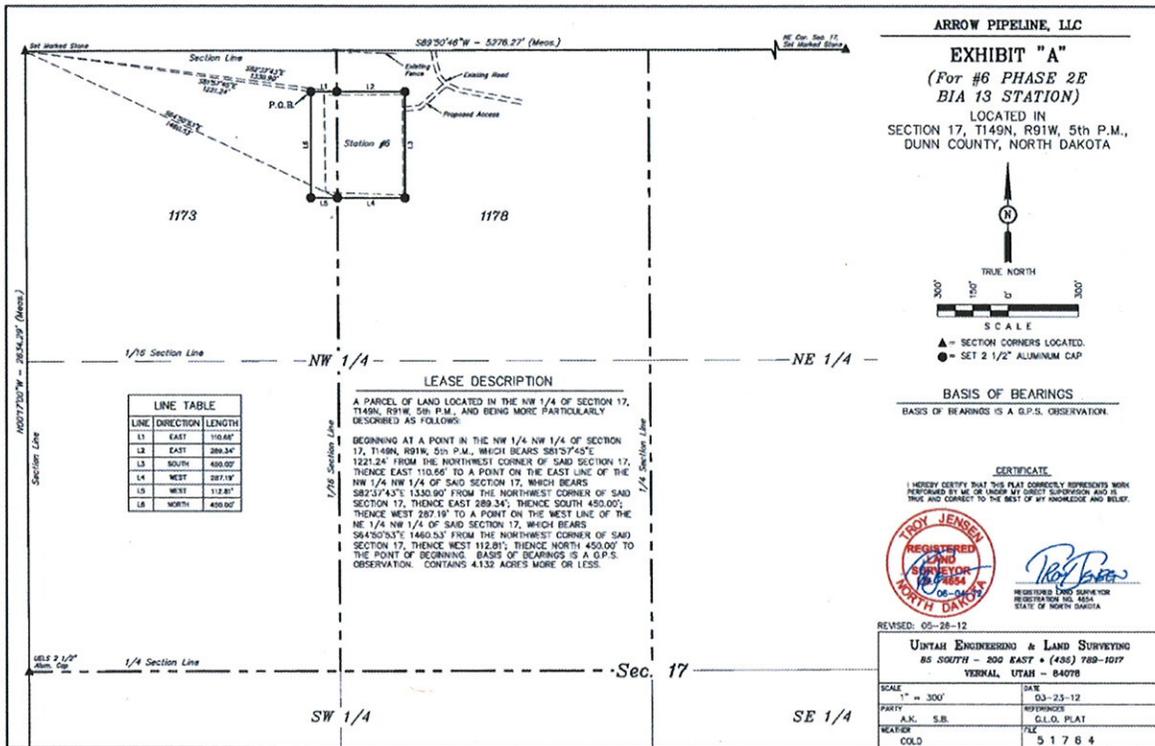
Addendum to Environmental Assessment to Authorize Land Use for the Construction of the Arrow Station #6: Phase 2E-BIA 13 Compressor and Pump Station on the Existing Phase 2E BIA 13 Pipeline System (June 2012)



*Addendum to Environmental Assessment to Authorize Land Use for the Construction of the Arrow
Station #6: Phase 2E-BIA 13 Compressor and Pump Station on the Existing Phase 2E BIA 13 Pipeline
System (June 2012)*



Addendum to Environmental Assessment to Authorize Land Use for the Construction of the Arrow Station #6: Phase 2E-BIA 13 Compressor and Pump Station on the Existing Phase 2E BIA 13 Pipeline System (June 2012)



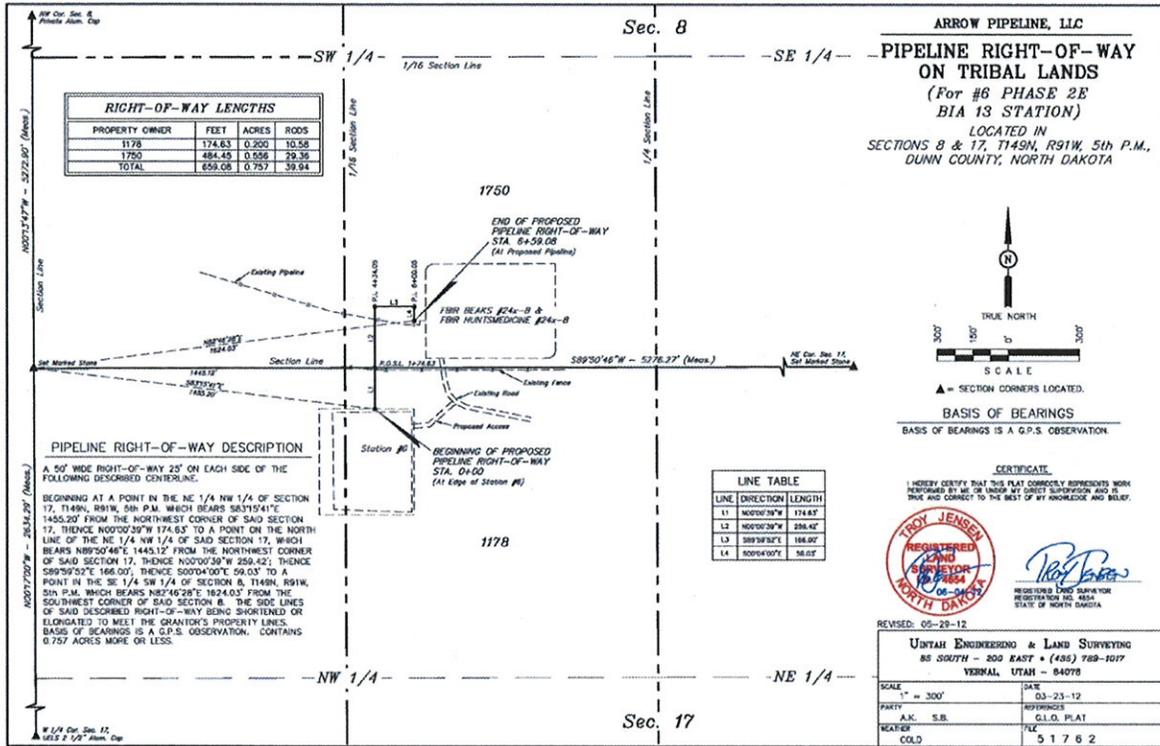
LINE	DIRECTION	LENGTH
L1	EAST	110.88'
L2	EAST	289.34'
L3	SOUTH	400.00'
L4	WEST	287.19'
L5	WEST	112.81'
L6	NORTH	400.00'

LEASE DESCRIPTION

A PARCEL OF LAND LOCATED IN THE NW 1/4 OF SECTION 17, T149N, R91W, 5th P.M., AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT IN THE NW 1/4 NW 1/4 OF SECTION 17, T149N, R91W, 5th P.M., WHICH BEARS S81°37'45"E 1221.24' FROM THE NORTHWEST CORNER OF SAID SECTION 17, THENCE EAST 110.88' TO A POINT ON THE EAST LINE OF THE NW 1/4 NW 1/4 OF SAID SECTION 17, WHICH BEARS S82°37'43"E 1330.90' FROM THE NORTHWEST CORNER OF SAID SECTION 17, THENCE EAST 289.34'; THENCE SOUTH 450.00'; THENCE WEST 287.19' TO A POINT ON THE WEST LINE OF THE NE 1/4 NW 1/4 OF SAID SECTION 17, WHICH BEARS S64°50'33"E 1460.03' FROM THE NORTHWEST CORNER OF SAID SECTION 17, THENCE WEST 112.81'; THENCE NORTH 450.00' TO THE POINT OF BEGINNING. BASIS OF BEARINGS IS A G.P.S. OBSERVATION. CONTAINS 4.132 ACRES MORE OR LESS.

Addendum to Environmental Assessment to Authorize Land Use for the Construction of the Arrow Station #6: Phase 2E-BIA 13 Compressor and Pump Station on the Existing Phase 2E BIA 13 Pipeline System (June 2012)



Addendum to Environmental Assessment to Authorize Land Use for the Construction of the Arrow Station #6: Phase 2E-BIA 13 Compressor and Pump Station on the Existing Phase 2E BIA 13 Pipeline System (June 2012)

ARROW PIPELINE, LLC
#6 PHASE 2E BIA 13 STATION
PIPELINE RIGHT-OF-WAY
SECTIONS 8 & 17, T149N, R91W, 5th P.M.

TOTAL PIPELINE RIGHT-OF-WAY ON TRIBAL LANDS

TOTAL LENGTH OF RIGHT-OF-WAY IS 659.08' OR 0.125 MILES. WIDTH OF RIGHT-OF-WAY IS 50' (25' PERPENDICULAR ON EACH SIDE OF THE CENTERLINE). CONTAINS 0.757 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, 0.125 MILES IN LENGTH BEGINNING AND ENDING AS SHOWN ON THIS MAP IS ACCURATELY REPRESENTED.



A handwritten signature of Troy Jensen in blue ink.

REGISTERED LAND SURVEYOR
REGISTRATION NO. 4854
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, HERINAFTER 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, 0.125 MILES IN LENGTH BEGINNING AT STA. 0+00 AND ENDING AT STA. 6+59.08, 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 the Construction of the Arrow Station #6: Phase 2E-BIA 13 Compressor and Pump Station on the Existing Phase 2E BIA 13 Pipeline System (June 2012)

ARROW PIPELINE, LLC
#6 PHASE 2E BIA 13 STATION
ROAD RIGHT-OF-WAY
SECTION 17, T149N, R91W, 5th P.M.

TOTAL ROAD RIGHT-OF-WAY ON TRIBAL LANDS

TOTAL LENGTH OF RIGHT-OF-WAY IS 214.14' OR 0.041 MILES. WIDTH OF RIGHT-OF-WAY IS 66' (33' PERPENDICULAR ON EACH SIDE OF THE CENTERLINE). CONTAINS 0.324 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 ROAD 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, 0.041 MILES IN LENGTH BEGINNING AND ENDING AS SHOWN ON THIS MAP IS ACCURATELY REPRESENTED.



A handwritten signature of Troy Jensen in blue ink.

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 ROAD RIGHT-OF-WAY, 0.041 MILES IN LENGTH BEGINNING AT STA. 0+00 AND ENDING AT STA. 2+14.14, THAT SAID ROAD 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

ARROW PIPELINE, INC.
#6 PHASE 2E BIA 13 STATION
SECTION 17 T149N, R91W, 5th P.M.

PROCEED IN A EASTERLY DIRECTION FROM MANDAREE, NORTH DAKOTA ALONG BIA 12 APPROXIMATELY 15.3 MILES TO THE JUNCTION OF THIS ROAD AND BIA 13 TO THE NORTHEAST; TURN LEFT AND PROCEED IN AN NORTHEASTERLY DIRECTION APPROXIMATELY 1.7 MILES TO THE JUNCTION OF THIS ROAD AND 19TH ST. NW TO THE EAST; TURN RIGHT AND PROCEED IN AN EASTERLY, THEN NORTHEASTERLY, THEN NORTHEASTERLY DIRECTION APPROXIMATELY 3.2 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; TURN RIGHT AND PROCEED IN AN EASTERLY, THEN NORTHEASTERLY DIRECTION APPROXIMATELY 0.5 MILES TO JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHEASTERLY. TURN LEFT AND PROCEED IN A NORTHEASTERLY, THEN NORTHWESTERLY DIRECTION APPROXIMATELY 0.5 MILES TO THE BEGINNING OF THE PROPOSED ACCESS TO THE SOUTHWEST; FOLLOW ROAD FLAGS IN AN SOUTHWESTERLY DIRECTION APPROXIMATELY 219' TO THE PROPOSED STATION.

TOTAL DISTANCE FROM MANDAREE, NORTH DAKOTA TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 21.2 MILES.

Addendum to Environmental Assessment to Authorize Land Use for the Construction of the Arrow Station #6: Phase 2E-BIA 13 Compressor and Pump Station on the Existing Phase 2E BIA 13 Pipeline System (June 2012)



Addendum to Environmental Assessment to Authorize Land Use for the Construction of the Arrow Station #6: Phase 2E-BIA 13 Compressor and Pump Station on the Existing Phase 2E BIA 13 Pipeline System (June 2012)

