

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

DEC 16 2011

MEMORANDUM

TO:

Superintendent, Fort Berthold Agency

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 gathering pipelines connecting the XTO Headless Turtle #44x-32, Grinnell #34X-33, Grinnell #41X-1, and George Blackhawk #21X-6 wells to the existing Arrow Phase 2E BIA 13 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 EA Addendum, FONSI and Notice of Availability. The Council on Environmental Quality (CEQ) regulations require that there be a public notice of availability of the FONSI (40 C.F.R. Part 1506.6(b)). Please post the attached notice of availability at the Agency and Tribal buildings for 30 days.

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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) 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 Gathering Pipelines Connecting the XTO Headless Turtle #44x-32, Grinnell #34X-33, Grinnell #41X-1, and George Blackhawk #21X-6 Wells to the Existing Arrow Phase 2E BIA 13 Pipeline

Fort Berthold Indian Reservation

Dunn County, North Dakota

The U.S. Bureau of Indian Affairs (BIA) has received a proposed Addendum to Environmental Assessment authorizing land use for gathering pipelines connecting the XTO Headless Turtle #44x-32, Grinnell #34X-33, Grinnell #41X-1, and George Blackhawk #21X-6 Wells to the Existing Arrow Phase 2E BIA 13 Pipeline on the Fort Berthold Indian Reservation in Dunn County, North Dakota. Associated federal actions by BIA include determinations of effect regarding cultural resources, approvals of leases, rights-of-way and easements, and a positive recommendation to the Bureau of Land Management regarding the Applications for Permit to Drill.

The potential of the proposed actions to impact the human environment is analyzed in the attached Environmental Assessment (EA), as required by the National Environmental Policy Act. Based on the recently completed EA, I have determined that the proposed projects 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 was solicited and environmental issues related to the proposal were identified.
- 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 action 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.) (MBTA), the National Environmental Policy Act of 1969, as amended (42 U.S.C. 4321 et seq.) (NEPA), the Bald and Golden Eagle Protection Act (16 U.S.C. 668-668d, 54 Stat. 250) (BGEPA), Executive Order 13186 "Responsibilities of Federal Agencies to Protect Migratory Birds", and the Endangered Species Act (16 U.S.C. 1531 et seq.) (ESA).
- 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

Date

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 Gathering Pipelines Connecting the XTO Headless Turtle #44x-32, Grinnell #34X-33, Grinnell #41X-1, and George Blackhawk #21X-6 Wells to the Existing Arrow Phase 2E BIA 13 Pipeline

Fort Berthold Indian Reservation

December 2011

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

December 2011

TABLE OF CONTENTS

	<u>P</u>	age
1.	Purpose and Need for the Proposed Action	1
2.	Authorities	1
3.	Legal Land Description for Proposed Action	
4.	Scope of Work for Proposed Action	
5.	Materials Information and Corrosion Rates	
6.	Spill Response Plan	3
7.	Pipeline Marking Procedures	
8.	Quality Control/Quality Assurance Measures	3
9.	Valve Locations	
10.	Reclamation	
11.	Surveys	5
12.	Potential Effects	
13.	Applicable National Environmental Policy Act Document(s)	7
14.	National Environmental Policy Act Adequacy Criteria	
	LIST OF FIGURES	
Figu	ıre P	age
1	Proposed gathering pipeline alignment for the proposed George Blackhawk #21X-6,	
	Grinnell #34X-33, Grinnell #41X-1, and Headless Turtle #44X-32 wells	9
	,	
	LIST OF TABLES	
Tab	le P	age
1	Natural resource features recorded during survey.	
	LIST OF APPENDICES	
Ann	pendix	
₹ 7 1717	MUIA	

A Pipeline Layout and Pipeline Right-of-Way for XTO Headless Turtle #44X-32, Grinnell #34X-33, Grinnell #41X-1, and George Blackhawk #21X-6

1. Purpose and Need for the Proposed Action

Arrow Pipeline, LLC (Arrow) has proposed to construct gathering oil pipelines within the Fort Berthold Indian Reservation. 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 Nations and to individual tribal members.

The purpose of the proposed action is to authorize the land use by Arrow for the construction and installation of gathering pipelines including one oil line, one gas line, and one water line, all of which will not individually exceed a diameter of 8 inches. The proposed gathering pipelines would transport oil, gas, and produced water from productive wells to markets and disposal facilities. A buried electrical line may be installed in the future.

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

Headless Turtle #44X-32

The XTO Headless Turtle #44X-32 gathering pipelines would be located on trust land originating from the northeast corner of the well pad, in the SE¼ NE¼ of Section 32, Township (T) 148 North (N), Range (R) 91 West (W), 5th Prime Meridian (P.M.), Dunn County, North Dakota, and terminating in the SW¼ SW¼ of Section 33, T148N, R91W, 5th P.M., Dunn County, North Dakota.

Grinnell #34X-33

The XTO Grinnell #34X-33 gathering pipelines would be located on trust land originating from the northeast corner of the well pad, in the SW¼ SE¼ of Section 33, T149N, R91W, 5th P.M., Dunn County, North Dakota, and terminating in the SE¼ SW¾ of Section 33, T149N, R91W, 5th P.M., Dunn County, North Dakota.

Grinnell #41X-1

The XTO Grinnell #41X-1 gathering pipelines would be located on trust land originating from the southwest corner of the well pad, in the NE¼ NE¼ of Section 1, T148N, R92W, 5th P.M., Dunn County, North Dakota, and terminating in the NW¼ NW¼ of Section 1, T148N, R91W, 5th P.M., Dunn County, North Dakota.

George Blackhawk #21X-6

The XTO George Blackhawk #21X-6 gathering pipelines would be located on trust land originating from the east corner of the well pad, in the NE¼ NW¼ of Section 6, T148N, R91W, 5th P.M., Dunn County, North Dakota, and terminating in the NW¼ SE¼ of Section 30, T149N, R93W, 5th P.M., Dunn County, North Dakota.

4. Scope of Work for Proposed Action

Arrow proposes to construct and install oil, gas, and water gathering pipelines on trust land that would join the XTO Headless Turtle #44X-32, Grinnell #34X-33, Grinnell #41X-1, and George Blackhawk #21X-6 wells to the existing Arrow Phase 2E BIA 13 Pipeline (Phase 2E). Oil, gas, and 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 steel. The water pipelines would also be no greater than 8 inches in diameter and constructed of Fiberspar® or similar material.

Approximately 20,031.8 feet of oil, gas, and water pipeline would be needed to connect the XTO Headless Turtle #44X-32, Grinnell #34X-33, Grinnell #41X-1, and George Blackhawk #21X-6 wells to the existing Phase 2E. All construction disturbances would occur within a 120-foot-wide temporary right-of-way (ROW) and permanent surface disturbance would occur within a 50-foot ROW. In total, approximately 55.18 acres would be disturbed as a result of activities associated with the construction of the four proposed gathering pipelines. Pipeline plats are provided in Appendix A.

Headless Turtle #X-32

The Headless Turtle #44X-32 pipelines would originate from the northeast corner of the well pad, and travel approximately 524.6 feet northeast before connecting to the proposed George Blackhawk #21X-6 gathering pipeline system.

Grinnell #34X-33

The Grinnell #34X-33 pipelines would originate from the northeast corner of the well pad, and travel approximately 1,074.8 feet west-southwest before connecting to the George Blackhawk #21X-6 gathering pipeline system.

Grinnell #41X-1

The Grinnell #41X-1 gathering pipelines would originate from the southwest corner of the well pad, then travel approximately 1,296.0 feet northeast before connecting to the George Blackhawk #21X-6 gathering pipeline system.

George Blackhawk #21x-6

The George Blackhawk #21X-6 gathering pipelines would originate from the east corner of the well pad, then travel approximately 17,136.40 feet west-northwest before connecting to the existing Phase 2E.

2

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 gathering pipelines 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 Arrow 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 (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, 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

3

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

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 while the second valve would be installed at the proposed tie-in. The installation of two valves would allow Arrow to isolate the proposed gathering 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 pipeline. A successful reclamation would at all times be the responsibility of the system's operator.

Trenches would be back-filled immediately after the pipe is installed and testing is complete, assuming frozen or saturated soils are not present. Back-fill piles would be stored opposite of the topsoil piles during construction. If construction were to occur during the winter, Arrow would partially fill the trench with useable, non-frozen, back-fill soil to the extent possible and cover the entire ROW, including the trench, with straw. The trench would be back-filled 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 snow melt and precipitation events.

Applicable short- and long-term best management practices 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 snow melt and precipitation.

The entire ROW would be monitored for erosion, subsidence, or 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 pipeline is 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. Exceptions to these reclamation measures might occur if the BIA approves assignment of an access road either to the BIA roads inventory or to concurring surface allottees. It is economically and environmentally unfeasible to excavate and remove the decommissioned pipeline. Instead it 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, migratory birds and active nests, bald and golden eagles and their nests, and wetlands/waterbodies on June 30, August 1, 2, and 8, and September 1 and 9, 2011. BIA Environmental Specialist Chris McLaughlin was present during the surveys and approved the location and proposed alignment of the XTO Headless Turtle #44X-32, Grinnell #34X-33, Grinnell #41X-1, and George Blackhawk #21X-6 gathering pipeline systems. Features recorded during the surveys are listed in Table 1 and illustrated in Figure 1.

5

Table 1. Natural resource features recorded during survey.

Feature Name	Feature Type	Description
WV1	Woody vegetation	silver buffaloberry (Shepherdia argentea), western snowberry (Symphoricarpos occidentalis), peashrubs (Caragana sp.), downy hawthorn (Crataegus mollis)
WV2	Woody vegetation	green ash (Fraxinus pennsylvanica)
WV3	Woody vegetation	green ash, peashrubs, western snowberry, downy hawthorn
NRAWV1	Woody vegetation	green ash, bur oak (<i>Quercus macrocarpa</i>), silver buffaloberry, Saskatoon serviceberry (<i>Amelanchier alnifolia</i>)
NRANX1	Noxious weeds	Canada thistle (Cirsium arvense)
WV5	Woody vegetation	green ash, western snowberry, prairie rose (Rosa arkansana), downy hawthorn
NX1	Noxious weeds	absinthium (Artemisia absinthium)
WV6	Woody vegetation	silver buffaloberry, western snowberry
WV7	Woody vegetation	silver buffaloberry
NRAWET1	Wetland	Palustrine emergent wetland
WV8	Woody vegetation	silver buffaloberry, western snowberry
NRAWV1	Woody vegetation	green ash, chokecherry (<i>Prunus virginiana</i>), downy hawthorn, silver buffaloberry
STR1	Waterbody	Intermittent stream
WV9	Woody vegetation	green ash, downy hawthorn
NX2	Noxious weeds	absinthium

No threatened and/or endangered species, migratory birds or nests, or bald/golden eagles or nests were observed during the natural resource surveys. No wetland areas are anticipated to be impacted by the construction of the proposed gathering pipelines.

A cultural resource inventory of these pipeline routes was conducted by personnel of SWCA Environmental Consultants, using an intensive pedestrian methodology. Approximately 151.26 acres were inventoried between June 30 and September 1, 2011 (Schleicher and Riordan 2011). 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 November 16, 2011; however the THPO did not respond within the allotted 30 day comment period.

6

Schleicher, Jolene, and Carolyn Riordan

(2011) A Class I and Class III Cultural Resources Inventory of the Arrow George Blackhawk 21X-6, Grinnell 34X-33, Grinnell 41X-1 and Headless Turtle 44X-32 Gathering Pipelines, 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. All potential impacts as a result of the proposed action were mitigated via field survey and subsequent avoidance of any eligible cultural resource sites within the proposed ROW.

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.

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 and/or endangered species or wetlands, avoidance 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 (FONSI) (September 2010).

13. Applicable National Environmental Policy Act Document(s)

Environmental Assessment: Arrow Pipeline, LLC Oil and Gas Gathering System Phase 2E-BIA 13 (September 2010).

14. National Environmental Policy Act Adequacy Criteria

This document has identified a previously prepared NEPA document, *Environmental Assessment: Arrow Pipeline, LLC Oil and Gas Gathering System Phase 2E-BIA 13* (September 2010), 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 sites 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.
- 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.

8

December 2011

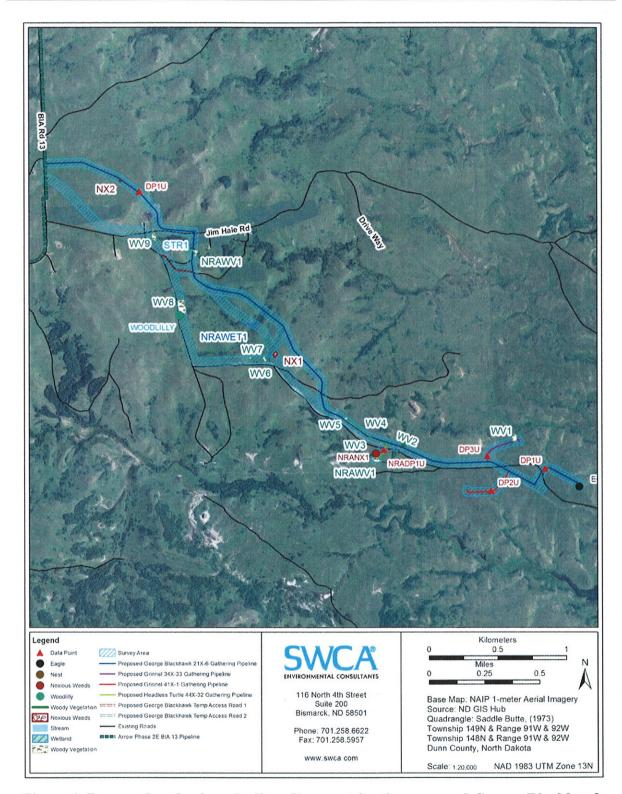


Figure 1. Proposed gathering pipeline alignment for the proposed George Blackhawk #21X-6, Grinnell #34X-33, Grinnell #41X-1, and Headless Turtle #44X-32 wells.

December 2011



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

NOV 1 6 2011

DESCRM MC-208

> 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 gathering line system in Dunn County, North Dakota. Approximately 151.26 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-2040/FB/12, the proposed undertaking, location, and project dimensions are described in the following report:

Schleicher, Jolene, and Carolyn Riordan

A Class I and Class III Cultural Resources Inventory of the Arrow George Blackhawk 21X-6, (2011)Grinnell 34X-33, Grinnell 41X-1 and Headless Turtle 44X-32 Gathering Pipelines, 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.

Regional Director

Enclosure

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Chairman, Three Affiliated Tribes Superintendent, Fort Berthold Agency

APPENDIX A

Pipeline Layout and Pipeline Right-of-Way for XTO Headless Turtle #44X-32, Grinnell #34X-33, Grinnell #41X-1, and George Blackhawk #21X-6

PIPELINE RIGHT-OF-WAY DESCRIPTION

A 50' MDE RIGHT-OF-WAY 25' ON EACH SIDE' OF THE FOLLOWING DESCRIBED CENTERLINE.

BEGINNING AT A POINT IN LOT 3 OF SECTION 6, T148N, R91W, 5th P.M., WHICH BEARS S5118'20"W 859.74' FROM THE SOUTHEAST CORNER OF SECTION 33, T148N, R91W, 5th P.M., THENCE N310'75'E 60.10' THENCE N829'0'0'W 789.33' THENCE S70'0'4"W 9.94'; THENCE S80'0'0'W 789.33'; THENCE S70'0'4'W 40.00'; THENCE S70'0'4'W 9.94'; THENCE S90'0'5'W 40.00'; THENCE S70'0'4'W 9.94'; THENCE S90'0'5'W 40.00'; THENCE S70'0'3'W 40.00'; THENCE S70'0'' W 9.00'; THENCE S70'0'' W 9.00'; THENCE N69'5'S' W 14.6'; TRON THE SOUTH 1/4 CORNER OF SAID SECTION 33, THENCE N69'S'S'S' W 99.46'; THENCE N69'S'S' W 99.46'; THENCE S89'S'S' W 99.46'; THENCE N69'S'S' THENCE N69'S'S HENCE (N.)7934 WE O.S.A.D. TO A POINT ON THE WEST LINE OF THE NET IVEN WITH YEAR WAS A DESCRION 32, WHICH BEARS SS93930*OF 1533.21' FROM THE NORTHWEST CORNER OF SAID SECTION 32, THENCE (N.)7594 WE WEST SAID SECTION 32, THENCE (N.)7594 WE WEST SAID SECTION 32, THENCE (N.)7594 WE WEST SAID SECTION 32, THENCE (N.)7597 WE WEST SAID SECTION 32, THENCE (N.)7507 WEST N.)7507 WEST SAID SECTION 32, THENCE (N.)7507 WEST N.)7507 WEST SAID SECTION 32, THENCE (N.)7507 WEST SAID SECTION 33, THENCE (N.)7507 WEST SAID SECTION 33, THENCE (N.)7507 WEST SAID SECTION 34, THENCE (N.)7507 WEST SAID SECTION 34, THENCE (N.)7507 WE SAID SECTION 34, THENCE (N.)7507 WEST SAID SECTION 34, THENCE (N.)7507 WE SAID SECTION 35, THENCE (N.)7507 WEST SAID SECTION 35, THENCE (N.)7507 WES

ARROW PIPELINE, LLC

PIPELINE RIGHT-OF-WAY ON TRIBAL LANDS

(For FBIR GEORGEBLACKHAWK #21x-6) DUNN COUNTY, NORTH DAKOTA LOCATED IN SECTION 6, T148N, R91W, & SECTIONS 29, 30, 32 & 33, T149N, R91W, 5th P.M.,

CERTIFICATE

HEREBY CERTIFY THAT THIS PLAT CORRECTLY REPRESENTS WORK PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

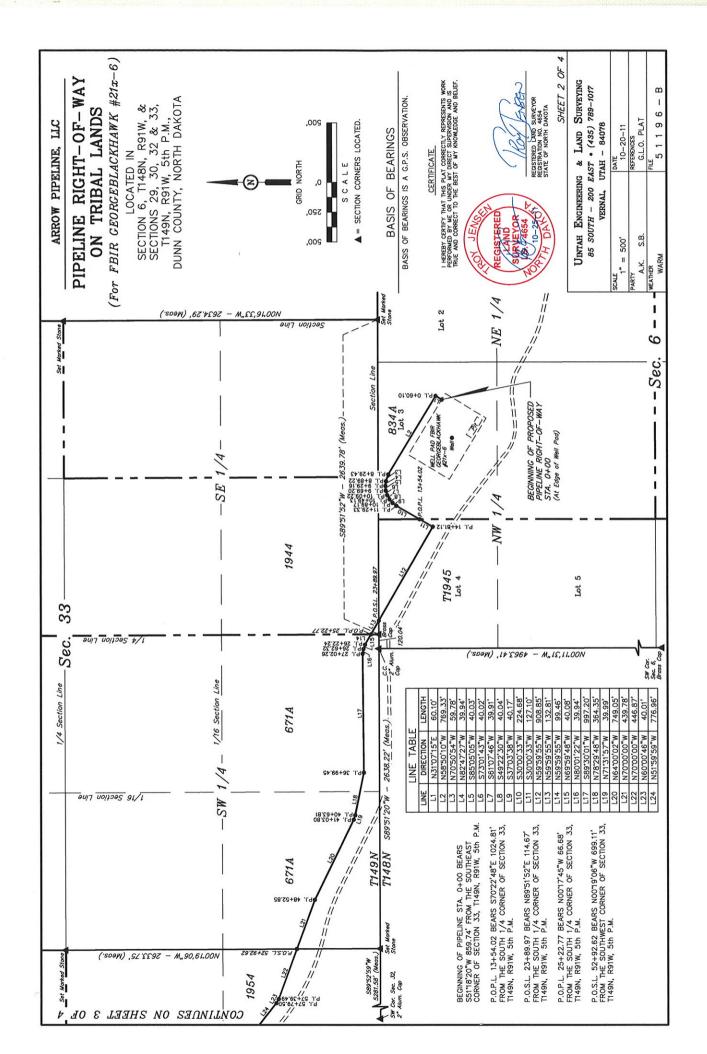


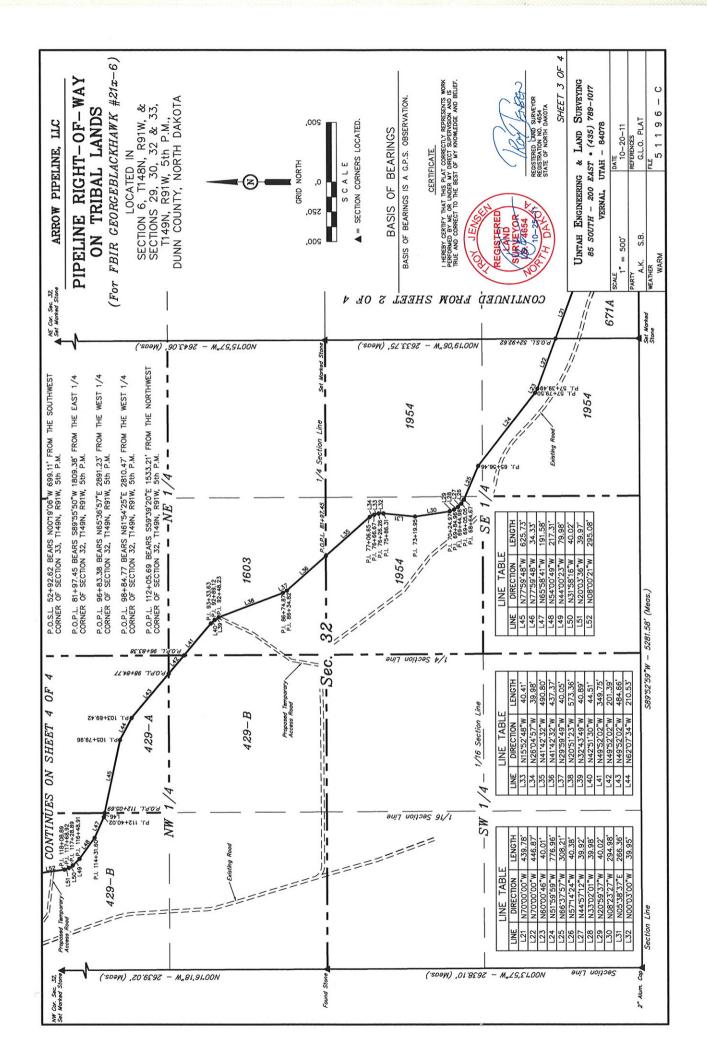
REGISTERED LAND SURVEYOR REGISTRATION NO. 4654 STATE OF NORTH DAKOTA

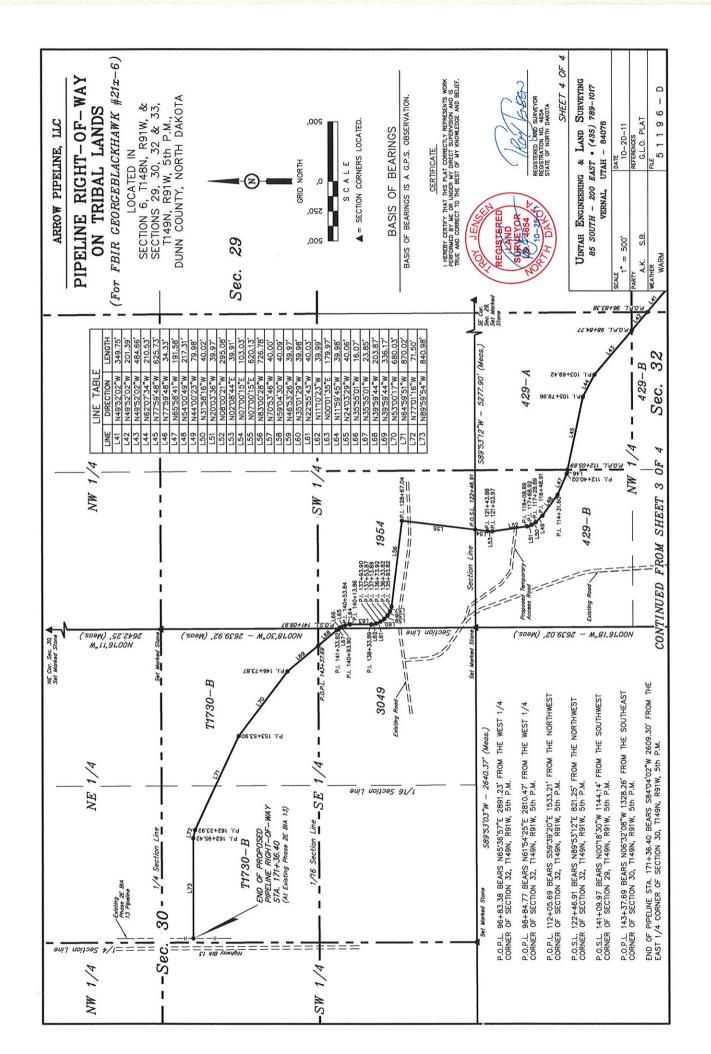
SHEET 1 OF 4

UNTAH ENGINEERING & LAND SURVEYING 85 SOUTH - 200 EAST • (435) 789-1017 VERNAL, UTAH - 84078

SCALE		DATE
N/A		10-20-11
PARTY		REFERENCES
A.K.	A.K. S.B.	G.L.O. PLAT
WEATHER		FILE
WARM		51196 - A







ARROW PIPELINE, LLC FBIR GEORGEBLACKHAWK #21x-6 PIPELINE RIGHT-OF-WAY SECTION 6, T148N, R91W, & SECTIONS 29, 30, 32 & 33, T149N, R91W, 5th P.M.

TOTAL PIPELINE RIGHT-OF-WAY ON TRIBAL LANDS

TOTAL LENGTH OF RIGHT-OF-WAY IS 17136.40' OR 3.246 MILES. WIDTH OF RIGHT-OF-WAY IS 50' (25' PERPENDICULAR ON EACH SIDE OF THE CENTERLINE). CONTAINS 19.670 ACRES MORE OR LESS.

ENGINEER'S AFFIDAVIT

STATE OF MONTANA)
COUNTY OF RICHLAND)

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, 3.246 MILES IN LENGTH BEGINNING AND ENDING AS SHOWN ON THIS MAP IS ACCURATELY REPRESENTED.

REGISTERED LAND SURVEYOR REGISTRATION NO. 4654 STATE OF NORTH DAKOTA

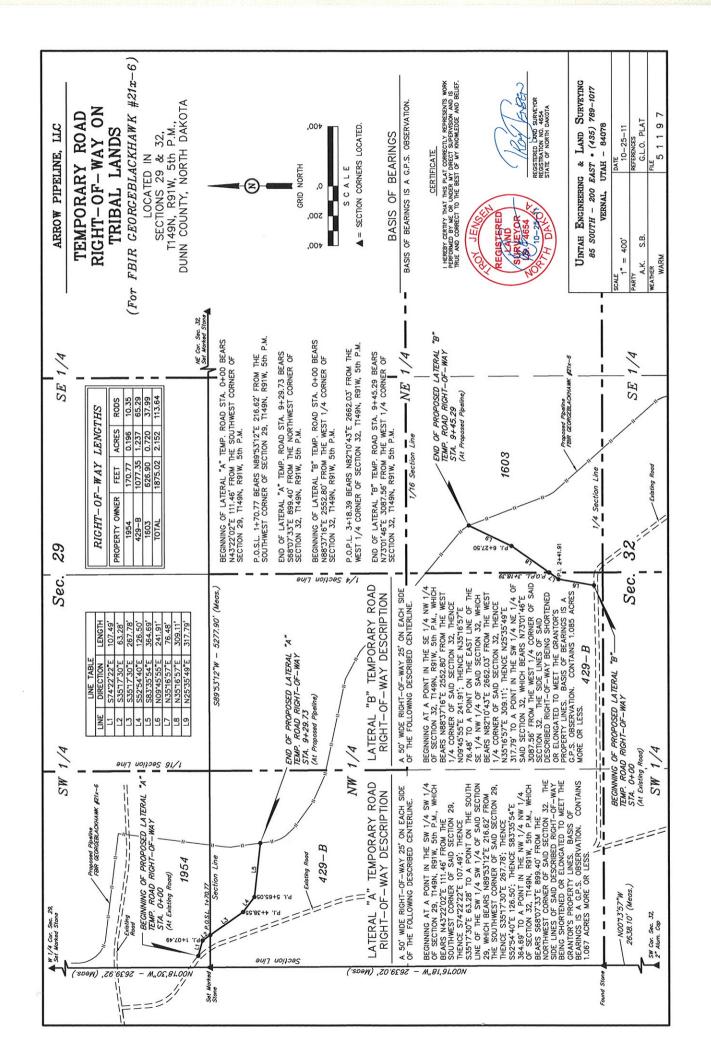
APPLICANT'S CERTIFICATE

ND

I, JOHN M. DOLAN, DO HEREBY CERTIFY THAT I AM THE V.P. OF ENGINEERING 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, 3.246 MILES IN LENGTH BEGINNING AT STA. 0+00 AND ENDING AT STA. 171+36.40, THAT SAID PIPELINE RIGHT—OF—WAY IS ACCURATELY REPRESENTED ON THIS MAP; THAT SUCH SURVEY AS REPRESENTED ON THIS MAP HAS BEEN ADDPTED 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

V.P. OF ENGINEERING



ARROW PIPELINE, LLC FBIR GEORGEBLACKHAWK #21x-6 TEMPORARY ROAD RIGHT-OF-WAY SECTIONS 29 & 32, T149N, R91W, 5th P.M.

TOTAL TEMP. ROAD RIGHT-OF-WAY ON TRIBAL LANDS

TOTAL LENGTH OF RIGHT-OF-WAY IS 1875.02' OR 0.355 MILES. WIDTH OF RIGHT-OF-WAY IS 50' (25' PERPENDICULAR ON EACH SIDE OF THE CENTERLINE). CONTAINS 2.152 ACRES MORE OR LESS.

ENGINEER'S AFFIDAVIT

STATE OF MONTANA)
COUNTY OF RICHLAND)

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 TEMP. ROAD RIGHTS—OF—WAY AS DESCRIBED AND SHOWN ON THIS MAP, THAT THIS MAP WAS PREPARED UNDER HIS DIRECTION FROM SAID FIELD NOTES; AND THAT SAID RIGHTS—OF—WAY, 0.355 MILES IN LENGTH BEGINNING AND ENDING AS SHOWN ON THIS MAP IS ACCURATELY REPRESENTED.

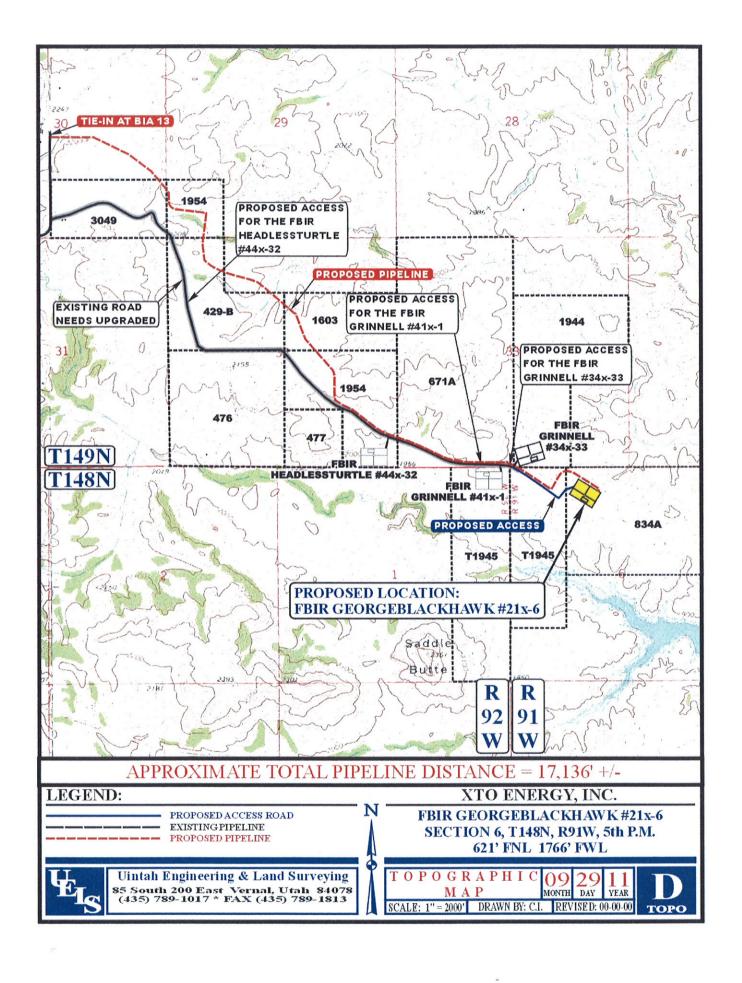
REGISTERED LAND SURVEYOR REGISTRATION NO. 4654 STATE OF NORTH DAKOTA

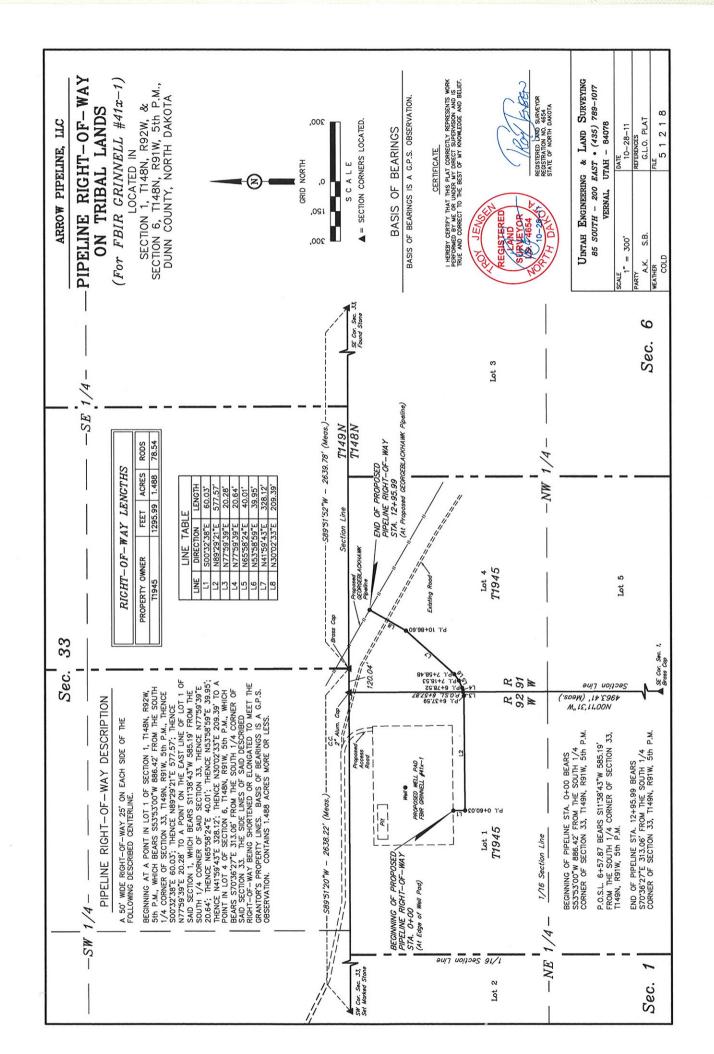
APPLICANT'S CERTIFICATE

I, JOHN M. DOLAN, DO HEREBY CERTIFY THAT I AM THE V.P. OF ENGINEERING 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 THESE TEMP. ROAD RIGHTS-OF-WAY, 0.355 MILES IN LENGTH BEGINNING AND ENDING AS SHOWN, THAT SAID TEMP. ROAD RIGHTS-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 RIGHTS-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 RIGHTS-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 THESE RIGHTS-OF-WAY BY ASSIGNMENT, GRANT, OR OTHERWISE.

APPLICANT

V.P. OF ENGINEERING





ARROW PIPELINE, LLC FBIR GRINNELL #41x-1 PIPELINE RIGHT-OF-WAY SECTION 1, T148N, R92W, & SECTION 6, T148N, R91W, 5th P.M.

TOTAL PIPELINE RIGHT-OF-WAY ON TRIBAL LANDS

TOTAL LENGTH OF RIGHT-OF-WAY IS 1295.99' OR 0.245 MILES. WIDTH OF RIGHT-OF-WAY IS 50' (25' PERPENDICULAR ON EACH SIDE OF THE CENTERLINE). CONTAINS 1.488 ACRES MORE OR LESS.

ENGINEER'S AFFIDAVIT

STATE OF MONTANA)
COUNTY OF RICHLAND)

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, 0.245 MILES IN LENGTH BEGINNING AND ENDING AS SHOWN ON THIS MAP IS ACCURATELY REPRESENTED.

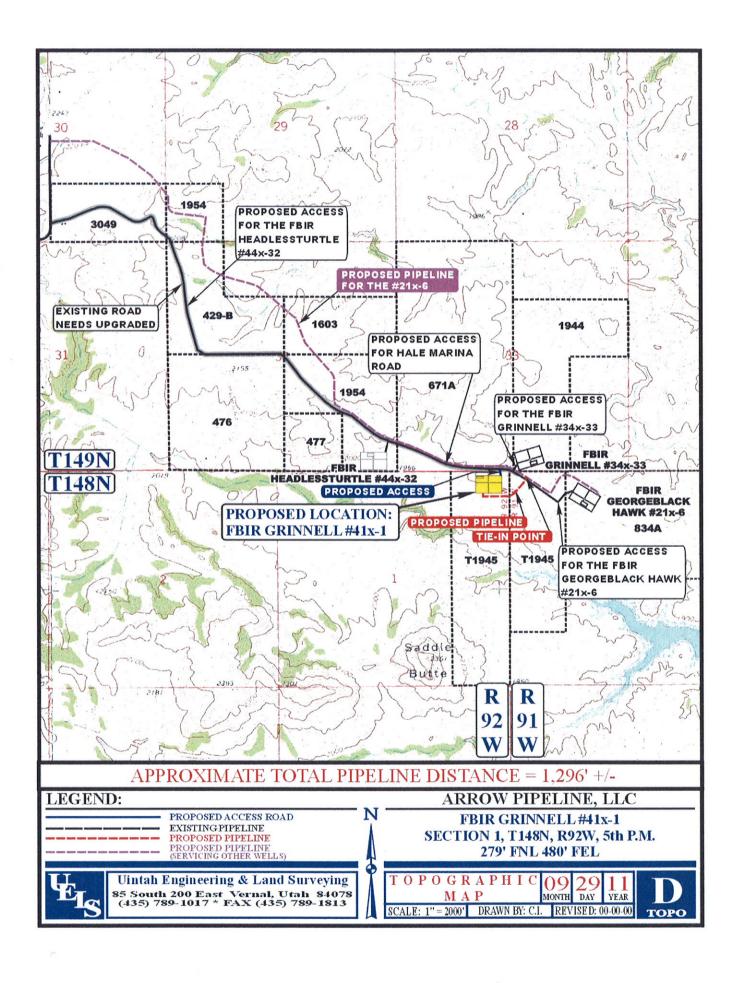
REGISTERED LAND SURVEYOR REGISTRATION NO. 4654 STATE OF NORTH DAKOTA

APPLICANT'S CERTIFICATE

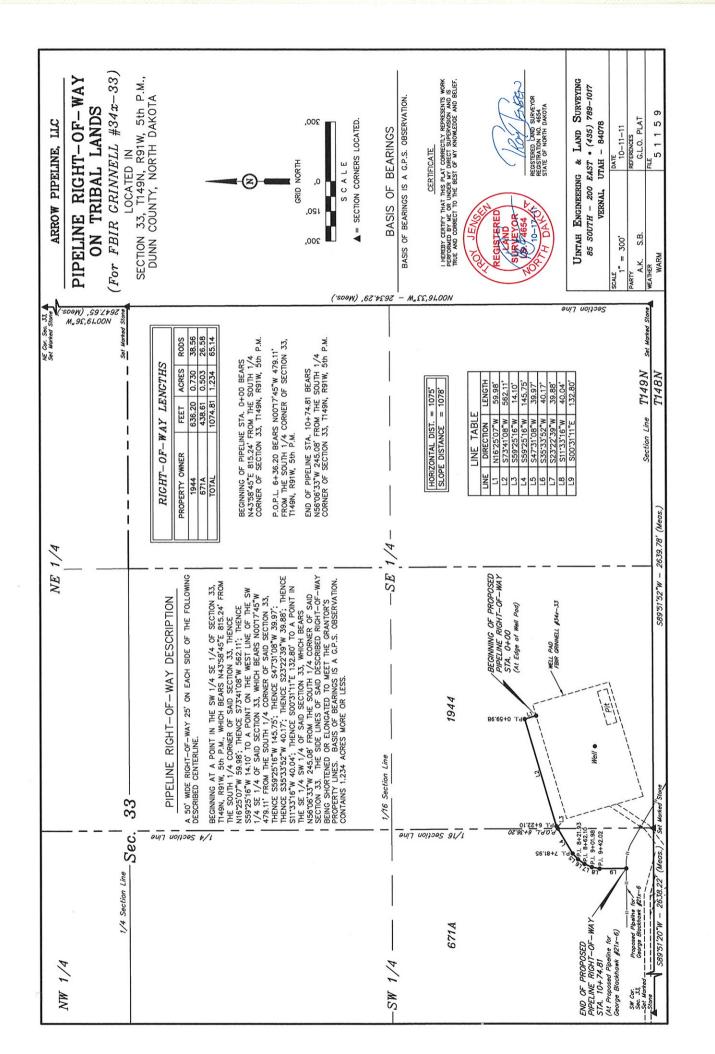
I, JOHN M. DOLAN, DO HEREBY CERTIFY THAT I AM THE V.P. OF ENGINEERING FOR ARROW PIPELINE, LLC, HEREINAFTER DESIGNATED THE APPLICANT; THAT TROY JENSEN WHO SUBSCRIBED TO THE FOREGOING AFFIDAVIT, IS EMPLOYED BY THE APPLICANT AS A LAND SURVEYOR AND THAT HE WAS DIRECTED BY THE APPLICANT TO SURVEY THE LOCATION OF THIS PIPELINE RIGHT—OF—WAY, 0.245 MILES IN LENGTH BEGINNING AT STA. 0+00 AND ENDING AT STA. 12+95.99, 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

V.P. OF ENGINEERING



00+0			BECINNING OF PROPOSED PIPELINE RICHT-OF-WAY (STA. 0+00)			1950	00	00+0	ARROW PIPELINE, ILC FBIR CRINNELL #845-33 PIPELINE PLAN & PROFILE
		ጊያት <u>ር</u> \$68 Td 86'6\$+0				FOM BOKKI ETEA: 1846'2.1, 2.1V' 0+28'39	0.5281		SECTION 33, T1484, RSIW, 5th P.M., DUNN COUNTY, NORTH DAKOTA
1944 SW 1/4 SE 1/4 SEC. 33, T149N, R91W, 5th P.M.	38.56	· ·	4-00 3-00 2-00 1 Pod 1 #34x-33				19961 1960.9 1960.9 1960.9		PROJECT DATA SCALE: AS SHOWN SURVEYED BY: AK DRAWING# 5 1.1 & 0 DATE: 10-12-11 SHEET: 1 OF 1
02.35+3		7,29,51,1 1,4 01,55,+8 -1,40,4 02,65,+8	Stop (+100 Pod FBIR GRINNELL #34x-33	A	PASTURE		6 2761 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	FRIAL SUMMARY CASING COATING TERRY
671A SE 1/4 SW 1/4 SEC. 33, T149N, R91W, 5th P.M.	26.58	780,4211 1.4 36.18+7 7817571 1.4 26.18+8 7617171 1.4 26.18+8 761.08 Pt. 11.49232	evge Blackhowk #21x—6			INIOd HOIH ETEN 1889*11, 96*19+2 VIS	0.7891 99 99 99 99 99 99 99 99 99 99 99 99 9	anananana ananananana	CLASS MATERIAL MATE
18.47+01		7,42,40.21 Td Z0/Z9+6	POSED WAY 4.81)			1950	2.74881 	# 10 10 10 10 10 10 10 10 10 10 10 10 10	United South Second Related Surveying South 200 Elect (* 18.5) 7.00-1.017
OWNERSHIP See PLAN OWNER OWNER	DDDAGE	эиіиопатг	PIPELIA PRESIDENT OF CASTING Roc	CLASS	TERRAIN	VERT: 1"=50' HORIZ: 1"=100' PROFILE	HORIZONTAL DIST. = 1075' SLOPE DISTANCE = 1078'	EASEMENT WORKSPACE	



ARROW PIPELINE, LLC FBIR GRINNELL #34x-33 PIPELINE RIGHT-OF-WAY SECTION 33, T149N, R91W, 5th P.M.

TOTAL PIPELINE RIGHT-OF-WAY ON TRIBAL LANDS

TOTAL LENGTH OF RIGHT-OF-WAY IS 1074.81' OR 0.204 MILES. WIDTH OF RIGHT-OF-WAY IS 50' (25' PERPENDICULAR ON EACH SIDE OF THE CENTERLINE). CONTAINS 1.234 ACRES MORE OR LESS.

ENGINEER'S AFFIDAVIT

STATE OF MONTANA)
COUNTY OF RICHLAND)

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, 0.204 MILES IN LENGTH BEGINNING AND ENDING AS SHOWN ON THIS MAP IS ACCURATELY REPRESENTED.

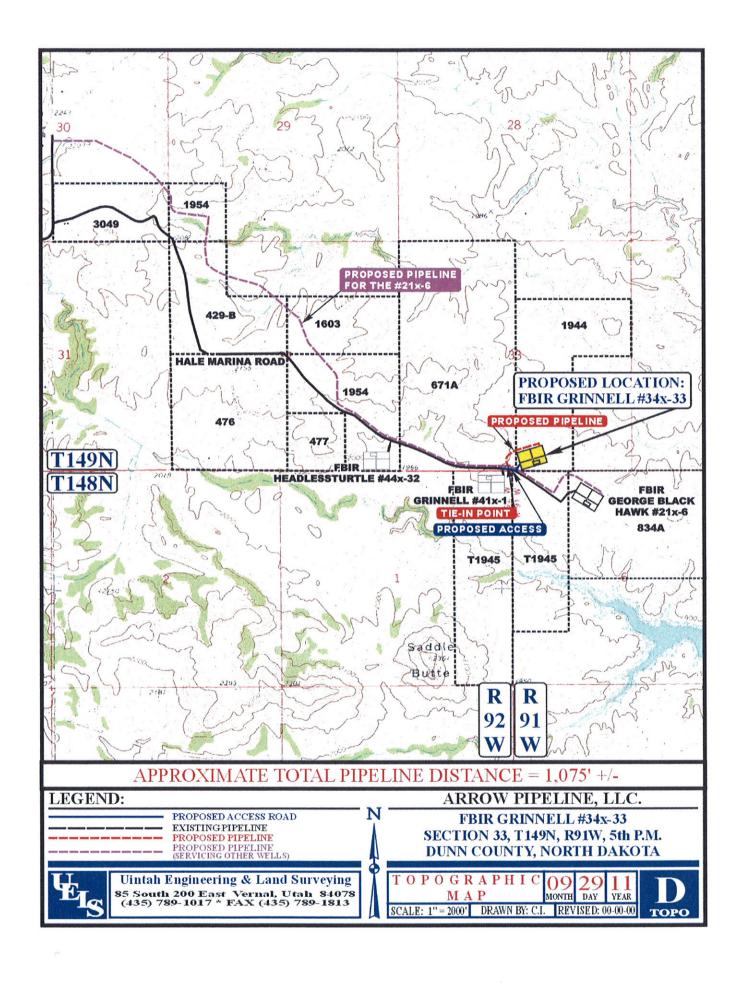
REGISTERED LAND SURVEYOR REGISTRATION NO. 4654 STATE OF NORTH DAKOTA

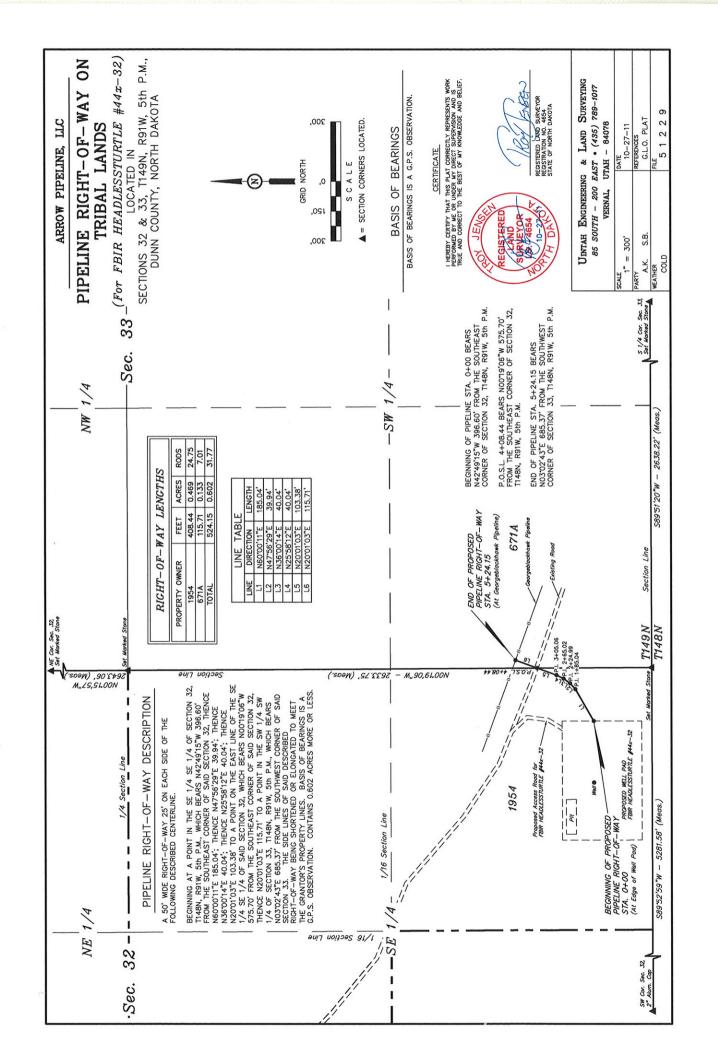
APPLICANT'S CERTIFICATE

I, JOHN M. DOLAN, DO HEREBY CERTIFY THAT I AM THE V.P. OF ENGINEERING 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, 0.204 MILES IN LENGTH BEGINNING AT STA. 0+00 AND ENDING AT STA. 10+74.81, 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

V.P. OF ENGINEERING





ARROW PIPELINE, LLC FBIR HEADLESSTURTLE #44x-32 PIPELINE RIGHT-OF-WAY SECTIONS 32 & 33. T149N. R91W. 5th P.M.

TOTAL PIPELINE RIGHT-OF-WAY ON TRIBAL LANDS

TOTAL LENGTH OF RIGHT-OF-WAY IS 524.15' OR 0.099 MILES. WIDTH OF RIGHT-OF-WAY IS 50' (25' PERPENDICULAR ON EACH SIDE OF THE CENTERLINE). CONTAINS 0.602 ACRES MORE OR LESS.

ENGINEER'S AFFIDAVIT

STATE OF MONTANA)
COUNTY OF RICHLAND)

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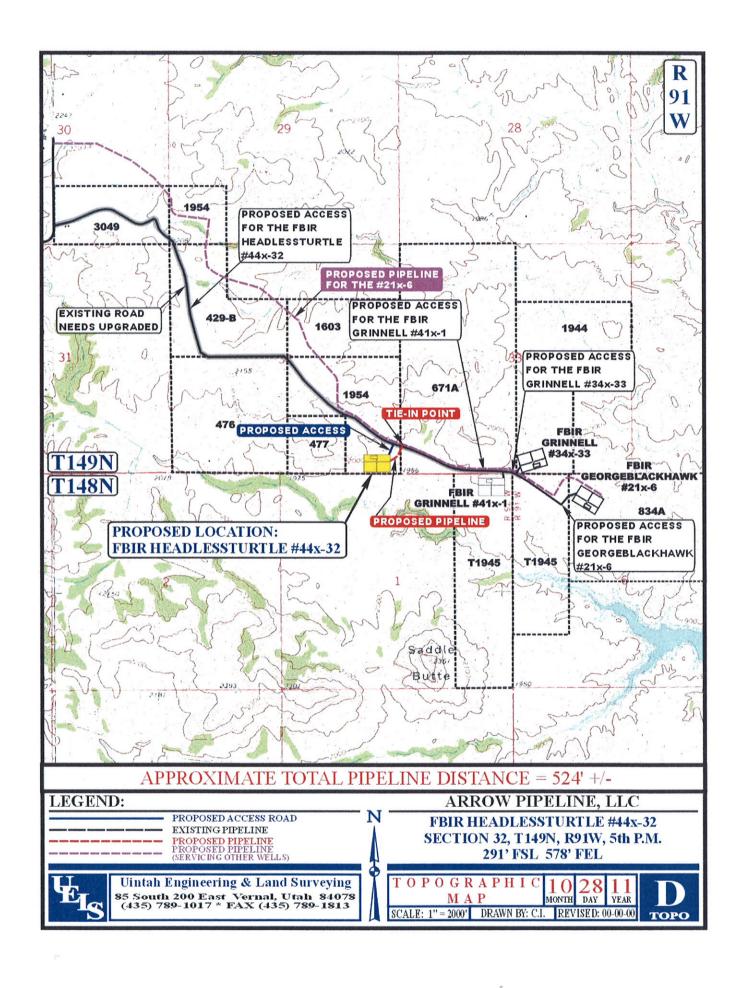
REGISTERED LAND SURVEYOR REGISTRATION NO. 4654 STATE OF NORTH DAKOTA

APPLICANT'S CERTIFICATE

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APPLICANT

V.P. OF ENGINEERING



Notice of Availability and Appeal Rights

Arrow: Addendum to Environmental Assessment to Authorize Land Use for Gathering Pipelines Connecting the XTO Headless Turtle #44x-32, Grinnell #34X-33, Grinnell #41X-1, and George Blackhawk #21X-6 Wells to the Existing Arrow Phase 2E BIA 13 Pipeline

The Bureau of Indian Affairs (BIA) is planning to issue administrative approvals related to an Addendum to Environmental Assessment to Authorize Land Use for Gathering Pipelines Connecting the XTO Headless Turtle #44x-32, Grinnell #34X-33, Grinnell #41X-1, and George Blackhawk #21X-6 Wells to the Existing Arrow Phase 2E BIA 13 Pipeline on the Fort Berthold Reservation as shown on the attached map. Construction by Arrow Pipeline, LLC 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 701-627-4707 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 January 14, 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 location:

