



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

NOV 16 2011

MEMORANDUM

TO: Superintendent, Fort Berthold Agency

FROM: ^{Acting} Regional Director, Great Plains Region 

SUBJECT: Environmental Assessment and Finding of No Significant Impact

In compliance with the regulations of the National Environmental Policy Act (NEPA) of 1969, as amended, an Environmental Assessment has been completed and a Finding of No Significant Impact (FONSI) has been issued. The environmental assessment authorizes land use for the Mandaree 4-15 Pipeline by Saddle Butte Pipeline, LLC, 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.

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)
Grady Wolf, KLJ (with attachment)
Jonathon Shelman, Corps of Engineer
Jeff Hunt, Fort Berthold Agency

Finding of No Significant Impact

***Saddle Butte Pipeline, LLC (SBP)
Mandaree 4-15 Pipelines***

***Addendum to:
Saddle Butte Pipeline, LLC August 2010 Environmental Assessment
Saddle Butte Trunk Lines***

***Fort Berthold Indian Reservation
McKenzie County, North Dakota***

The U.S. Bureau of Indian Affairs (BIA) has received a proposal for an addendum to the above referenced Environmental Assessment (EA). The proposal is to acquire a 100-foot right-of-way corridor (50 feet of temporary right-of-way and 50 feet of permanent right-of-way) for construction of approximately 13,450 feet of natural gas, oil and/or water pipelines. The oil and gas lines would be up to eight inches in diameter and the water lines would be up to six inches in diameter. The proposed project is located in McKenzie County, North Dakota, on the Fort Berthold Reservation. The new lines would connect to the Saddle Butte Trunk Lines (August 2010 EA/ Finding of No Significant Impact (FONSI)). The pipelines would tie in to the existing EOG Mandaree 4-15H well pad (January 2010 EA/ FONSI). 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

11-16-2011
Date

Notice of Availability and Appeal Rights

Saddle Butte Pipeline: Mandaree 4-15 Pipelines

The Bureau of Indian Affairs (BIA) is planning to issue administrative approvals related to an Environmental Assessment to Authorize Land Use for the Mandaree 4-15 Pipelines on the Fort Berthold Reservation as shown on the attached map. Construction by Saddle Butte Pipeline, LLC is expected to begin in 2011.

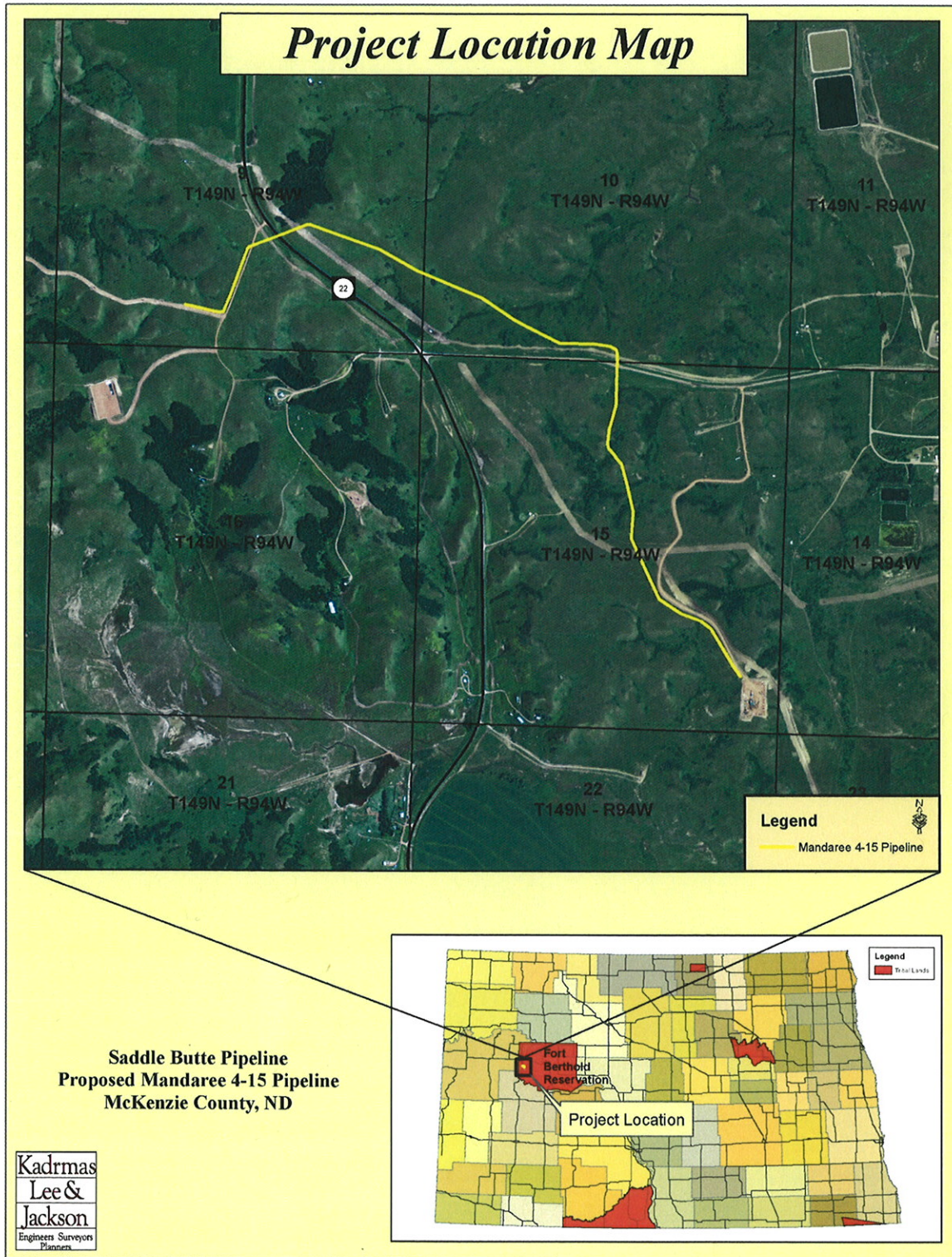
An environmental assessment (EA) determined that proposed activities will not cause significant impacts to the human environment. An environmental impact statement is not required. Contact Earl Silk, Superintendent at 701-627-4707 for more information and/or copies of the EA and the Finding of No Significant 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 December 16, 2011, 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



ENVIRONMENTAL ASSESSMENT

Addendum

United States Bureau of Indian Affairs

Great Plains Regional Office
Aberdeen, South Dakota



Saddle Butte Pipeline, LLC
Mandaree 4-15 Pipelines

Addendum to:
Saddle Butte Pipeline, LLC August 2010 Environmental Assessment
Saddle Butte Trunk Lines

Fort Berthold Indian Reservation

November 2011

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

Contents

1	Purpose and Need for the Proposed Action	1
2	Authorities	3
3	Legal Land Description of Proposed Action	3
4	Scope of Work for Proposed Action.....	3
5	Applicable National Environmental Policy Act (NEPA) Documents.....	5
6	Field Resource Surveys	6
7	Assessment of Environmental Impacts	6
	A. Ground Water	7
	B. Land Use	7
	C. Public Health and Safety.....	7
	D. Surface Water	7
	E. Wetlands	8
	i. Wetlands.....	8
8	NEPA Adequacy Criteria.....	8

EXHIBITS

Figure 1, Project Location Map.....	2
Figure 2, Typical ROW Cross Section.....	5
Appendix A: Mandaree 4-15	

1 PURPOSE AND NEED FOR THE PROPOSED ACTION

Saddle Butte Pipeline, LLC (SBP) proposes to construct approximately 13,450 feet of gas, oil and/or water pipelines (4 lines) within a 100-foot right-of-way (ROW) corridor (50 feet of temporary ROW and 50 feet of permanent ROW) in McKenzie County, North Dakota on the Fort Berthold Indian Reservation. In addition, an approximate 100x400-foot temporary workspace would be needed at each location for boring under ND Highway 22 and BIA Road 12. The new lines would connect to the Saddle Butte Trunk Lines (August 2010 EA/ Finding of No Significant Impact (FONSI)). These pipelines are proposed to tie in to the existing EOG Mandaree 4-15H well pad in Section 15, T149N, R94W, (January 2010 EA/ FONSI).

The proposed pipelines would be located on tribal lands and would connect to an existing pipeline alignment that has achieved a Finding of No Significant Impact (FONSI) approval under the National Environmental Policy Act (NEPA) of 1969, as amended. The pipeline was routed to minimize affects to the environment including visual affects to the adjacent roadways. The proposed gas, oil and/or water pipelines would be located in the following location:

- T149N, R94W, Section 9, 10 & 15

The purpose of the proposed action is to allow SBP to install the proposed pipelines to transport gas, oil and/or water from the previously approved EOG wells to a central gathering facility for further transport to markets or an acceptable disposal facility. Installation of the proposed pipelines would further support important benefits to the Three Affiliated Tribes. It would also provide individual members of the tribes with needed employment and income.

Installation of the proposed pipelines will reduce waste of valuable resources associated with continued flaring of produced gas, as well as minimize truck traffic, environmental, and public health and safety concerns.

Please refer to Figure 1.

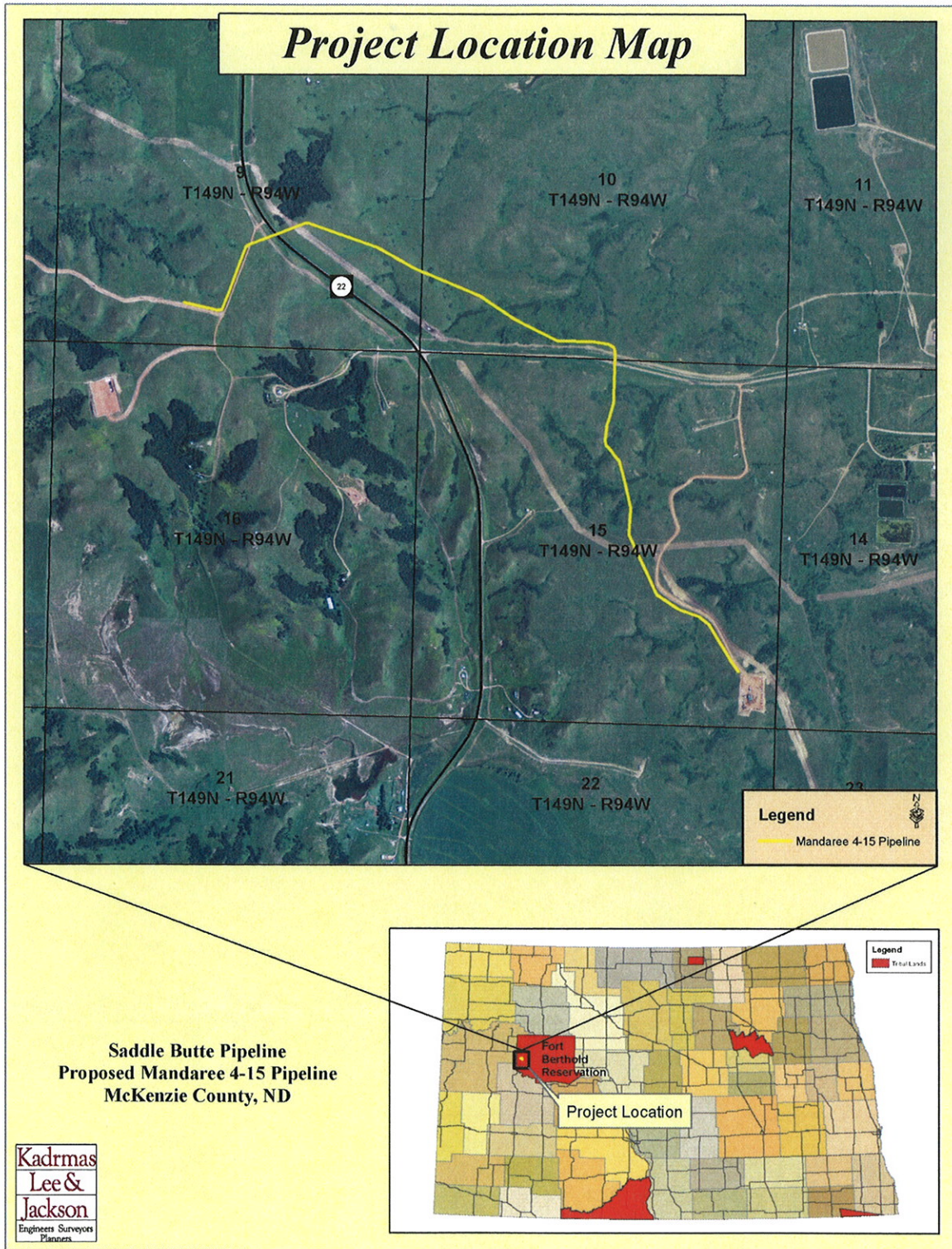


Figure 1, Project Location Map

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 OF PROPOSED ACTION

The proposed gas, oil, and/or water pipelines would be located in McKenzie County, North Dakota, in the following location:

- T149N, R94W, Section 9, 10 & 15

Please refer to the attached Mandaree 4-15 Plat in Appendix A.

4 SCOPE OF WORK FOR PROPOSED ACTION

The proposed action includes authorization by the BIA to install up to four pipelines, gathering system, and other appurtenances above or below ground to move produced gas and liquids to a suitable processing location. The proposed oil and gas pipelines would likely consist of steel lines, with oil/gas lines up to eight inches in diameter and water lines would likely consist of a poly line up to six inches in diameter.

Twenty eight miles of natural gas and oil pipelines were approved in a FONSI for the Saddle Butte Trunk Lines project on September 9, 2010. Since that time, plans have been developed to construct additional lines to newly developed oil and gas wells in the surrounding area, connecting to the Saddle Butte Trunk Lines. Construction of the new lines is expected to take approximately 90 days and would be confined to the 100-foot right-of-way corridor.

As current estimates expect the Bakken field to remain active for 30 to 40 years, it is important that pipeline systems are designed to perform for this period of time. Pipelines, if designed effectively and well maintained, may have an indefinite life expectancy.

To ensure their long-term viability, all pipelines would be coated with between 14-16 mils of fusion bonded epoxy coating, which helps protect the pipelines against corrosive elements in the soil. The coating would be inspected thoroughly at the time of installation, both visually and by electronic testing means. Saddle Butte also utilizes specialty coatings that are applicable for underground fittings, bore crossings, etc. to provide additional levels of protection in areas that require it. Velocities and pressure drops for the pipeline system are carefully evaluated and lines are sized so as

to prevent erosion velocity. Additionally, lines are designed to be cleaned and inspected via internal tools (e.g., cleaning pigs and smart pigs), which helps in the identification of issues in the pipes.

Following design and installation, Saddle Butte would immediately conduct a cathodic survey utilizing test stations, rectifier pads and other means designed by cathodic protection specialists. Saddle Butte would also install pig launchers and receivers on its trunk lines and primary laterals to identify pipeline conditions both internally and externally to maintain the integrity of the pipeline system.

All Saddle Butte installations are monitored by an inspection/construction management team as well as independent third party contract experts. Saddle Butte's construction specifications require contractors to allow for inspection, and no pipeline is laid and backfilled without appropriate approvals. Hydrotesting of pipelines would be used to assure no possibility of leakage at the time of installation.

Installation of the pipelines may require clearing and grading within the 100-foot right-of-way along the entire pipeline corridor. In addition, an approximate 100x400 foot area would be needed at each location for boring operations under ND Highway 22 and BIA Road 12. Every effort would be made to minimize surface disturbance during the construction process. Topsoil would be separated and stockpiled along either side of any disturbed cross section to be used for prompt reseeding and reclamation of the disturbed area. If construction activities take place close to the end of construction season, topsoil would only be removed far enough in advance that the pipeline could be installed and the site re-graded prior to the end of the construction season.

For locations that are reclaimed in winter months or late fall such that no germination is possible, Saddle Butte will either use a sprayed reinforcement, lain matting reinforcement, spread and crimp straw and/or would minimize erosion issues with straw wattle and silt fence through winter months. Any temporary reclamation measures would remain until Saddle Butte can completely reclaim and revegetate the disturbed area in the spring. All temporary reclamation measures would be inspected on a monthly basis, or more frequently as necessary, throughout the winter. In addition, Saddle Butte would also install BMPs on slopes as needed to provide erosion breaks.

Continued use of pasture and livestock grazing areas would be maintained during construction via use of temporary fencing or cattle guards when crossing land with livestock present and temporary crossings, as needed. Trenches would be excavated to a depth sufficient to maintain a minimum of 48 inches of ground coverage over the pipeline. The proposed route crosses ND Highway 22 and BIA Road 12. A roadway crossing permit would be obtained to cross the roadways prior to construction. The roadways would be bored under and would provide for a minimal crossing depth of 72 inches. **Typical ROW cross section is as shown in Figure 2.** It is understood that other utilities may be present in the project area and would need to be located prior to construction as well as coordinating potential crossings with the appropriate utilities.

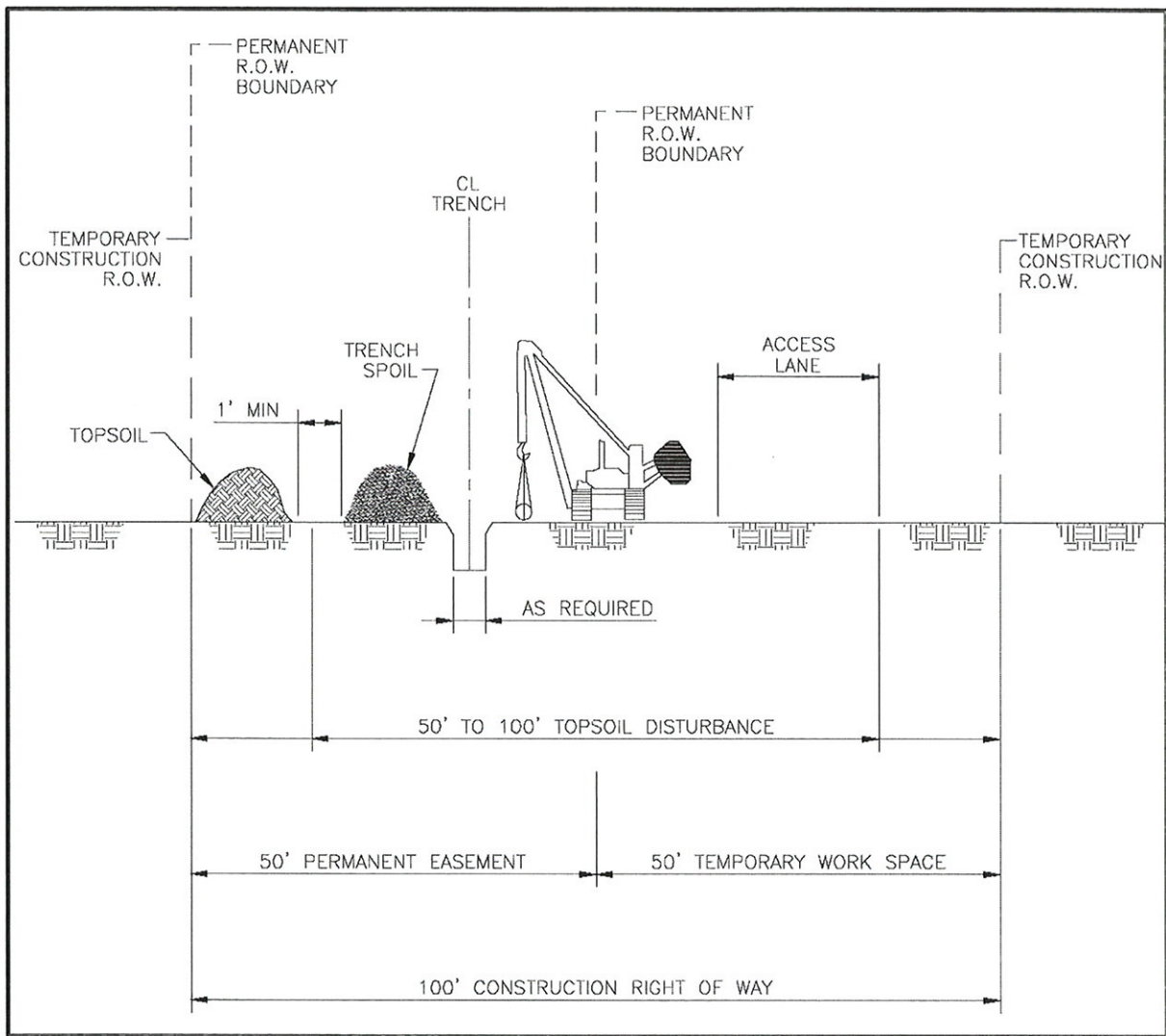


Figure 2, Typical ROW Cross Section

5 APPLICABLE NATIONAL ENVIRONMENTAL POLICY ACT (NEPA) DOCUMENTS

The following NEPA documents have been previously approved by BIA for the proposed action:

- Environmental Assessment, Saddle Butte Pipeline, LLC, Saddle Butte Trunk Lines, Fort Berthold Indian Reservation, August 2010. The EA FONSI was issued September 9, 2010.
- Environmental Assessment, EOG Resources, Inc., Nine Exploratory Oil Wells, Fort Berthold Indian Reservation, December 2009. The EA FONSI was issued January 20, 2010.

6 FIELD RESOURCE SURVEYS

An intensive, pedestrian resource survey of the proposed pipeline corridor was conducted on July 19, 2011 by Kadrmas, Lee & Jackson (KL&J). The purpose of this survey was to gather site-specific data and photos with regards to botanical, biological, threatened and endangered species, eagle, and water resources. A 200-foot wide pipeline corridor was evaluated along the pipeline route as well as a 100x400-foot area at each of the roadway bore locations. In addition, a 0.50 mile wide buffer around all areas of project disturbance was used to evaluate the presence of eagles and eagle nests. Resources were evaluated using visual inspection and pedestrian transects across the site.

The BIA EA on-site assessment of the pipeline corridor was conducted on July 19, 2011. The BIA Environmental Protection Specialist, Saddle Butte Pipeline, and KL&J participated in this assessment. During this assessment, construction suitability with respect to topography, stockpiling, drainage, erosion control, and other surface issues were considered. In addition, the proposed pipeline corridor was routed to minimize visual effects. Those present at the on-site assessment agreed that the chosen locations, along with the minimization measures Saddle Butte Pipeline plans to implement, are positioned in areas which would minimize impacts to sensitive wildlife and botanical resources.

A cultural resource inventory of this pipeline route was conducted by personnel of Kadrmas, Lee & Jackson, Inc., using an intensive pedestrian methodology. Approximately 116.2 acres were inventoried between July 19 – 22, 2011 (Mitchell 2011). Two archaeological sites were located, one of which may possess the quality of integrity and meet at least one of the criteria (36 CFR 60.6) for inclusion on the National Register, and the other of which is considered eligible for the National Register. Three areas “of tribal concern” were located which may be eligible for protection under the American Indian Religious Freedom Act (42 USC 1996). 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, as the archaeological sites and areas of tribal concern will be avoided. This determination was communicated to the THPO on October 11, 2011; however, the THPO did not respond within the allotted 30 day comment period.

Mitchell, Mary

(2011) Mandaree 415 Natural Gas Gathering Line: A Class III Cultural Resource Inventory, McKenzie County, North Dakota. KLJ Cultural Resources for Saddle Butte Pipeline, LLC, Durango, CO.

7 ASSESSMENT OF ENVIRONMENTAL IMPACTS

The following discussion addresses environmental and social impacts as a result of the expansion of the project corridor length from the previously approved pipelines. Impacts are only discussed if the expansion of the project has changed the impact assessment reflected in the September 2010 EA, or to note why the impact assessment has not changed.

A. Ground Water

Saddle Butte's standard bore depth beneath an actively eroding drainage area is eight feet. However, bores are designed on a case by case basis to avoid any adverse effects of the natural surface in the vicinity of the bore. Additionally, bore pipe would be coated with abrasion resistant coating that provides substantial abrasion resistance if a large erosion or flooding event occurs.

Due to pipeline construction standards and BMPs committed to by SBP, no impacts to groundwater, including groundwater wells and aquifers, are expected to result from the proposed project.

B. Land Use

The proposed project area is located within a predominantly rural area; land use consists primarily of grassland (98%) and roadway ROW (2%). The proposed project would temporarily convert approximately 15.4 acres of land from its existing use into a pipeline corridor. The pipelines would be buried underground and the majority of land uses would be able to resume following construction and reclamation activities. Some activities, such as those associated with developed lands, may be restricted within the permanent 50-foot ROW. The proposed pipeline corridor was routed to minimize visual effects. No mitigation is proposed.

C. Public Health and Safety

Third-party intrusions are one of the biggest contributing factors to spills. To aid in the prevention of such intrusions, Saddle Butte would fully comply with the marking requirements specified in the US Department of Transportation's rules and regulations, specifically contained in 49 CFR Parts 192 and 195. To ensure such compliance, Saddle Butte developed construction specifications to delineate the requirements for pipeline marking in accordance with applicable laws, rules, and regulations, including the locations of such markings (e.g., road crossings, waterbody crossings, line of sight, etc.) and the manner of marking such pipelines (e.g., height of markings and signage on the markings).

Saddle Butte has committed to developing a spill response plan that would be submitted to the BIA prior to the commencement of the construction activities. The response plan would include procedures that specifically address making the appropriate contacts, isolating the incident, protecting waterways and providing contact information for all the appropriate contractors and experts necessary to facilitate a rapid response.

D. Surface Water

No significant impacts to surface water are expected to result from construction of the proposed pipelines. The proposed project has been sited to avoid direct impacts to surface water and to minimize the disruption of drainage patterns across the landscape. Implementation of BMPs to control erosion would mitigate runoff of sediment downhill or downstream.

Two types of valves would be utilized for spill isolation:

- Check valves would be installed between trunk lines and lateral lines to prevent a "back feed" scenario to a spill, thereby limiting the volume of any spill to the wells that are directly contributing to it.
- Manual valve sets would also be installed at all intersections of laterals to trunk lines, allowing isolation at the wells themselves.

Saddle Butte has also developed a GIS database that establishes real time, web-based maps for use by its operations team and first responder personnel. In addition, Saddle Butte has provided options in its trunk lines for automatic isolation based on low pressure switching devices once the system pressure exceeds 1400 psi. These valves will automatically isolate the pipeline under most line rupture circumstances. Based on these mitigation measures, the proposed project is not anticipated to result in measurable increases in runoff or impacts to surface waters.

E. Wetlands

On-site assessments were conducted on August 18, 2011 with the BIA Environmental Protection Specialist, SBP, the Tribal Historic Preservation Office (THPO), and Kadmas, Lee & Jackson (KL&J) present at the survey. The purpose of the survey was to gather site-specific data and photos with regards to biological, botanical, soil, and water resources. A 200-foot corridor centered on the pipeline centerline as well as a 100x400-foot area around road boring locations was evaluated during the on-site. The pipeline corridor was adjusted, as appropriate, to best avoid impacts to any identified environmental areas of concern. During the field surveys, two wetlands were identified.

i. Wetlands

Two wetlands were identified during the field survey. The proposed pipelines were rerouted during the on-site surveys to avoid impacts. No mitigation is necessary due to rerouting the pipelines.

8 NEPA ADEQUACY CRITERIA

This document has identified two previously prepared NEPA documents: Environmental Assessment, Saddle Butte Pipeline, LLC. Saddle Butte Trunk Line, August, 2010 Fort Berthold Indian Reservation, FONSI signed September 9, 2010; and EOG Resources, Nine Exploratory Oil Wells, December, 2009, Fort Berthold Indian Reservation, FONSI signed January 20, 2010 which adequately describes the environmental consequences of the newly proposed actions described herein, and meets the following NEPA Adequacy Criteria:

1. The proposed actions are substantially the same actions and at the sites specifically analyzed in the existing NEPA documents.
2. The range of alternatives is reasonable with respect to the current proposed actions in the existing NEPA documents, which appropriately considers and analyzes 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 and/or resource assessment information.
4. The methodology and analytical approach used in the existing NEPA documents continues to be appropriate for the proposed actions.
5. The direct and indirect impacts of the proposed actions are unchanged from those identified in the existing NEPA documents.
6. The cumulative impacts that would result from implementation of the proposed actions 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.



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



OCT 11 2011

IN REPLY REFER TO
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 a gathering pipeline in McKenzie County, North Dakota. Approximately 116.2 acres were intensively inventoried using a pedestrian methodology. Potential surface disturbances are not expected to exceed the area depicted in the enclosed report. Two archaeological sites (32MZ2216, 32MZ2243) were located, the former unevaluated and the latter considered eligible in that it possesses the quality of integrity and meets at least one of the criteria (36 CFR 60.4) for inclusion on the National Register of Historic Places. Three "areas of tribal concern" were located which may 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, as the archaeological sites and areas of tribal concern will be avoided. Catalogued as BIA Case Number AAO-1926/FB/11, the proposed undertaking, location, and project dimensions are described in the following report:

Mitchell, Mary
(2011) Mandaree 415 Natural Gas Gathering Line: A Class III Cultural Resource Inventory, McKenzie County, North Dakota. KLL Cultural Resources for Saddle Butte Pipeline, LLC, Durango, CO.

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

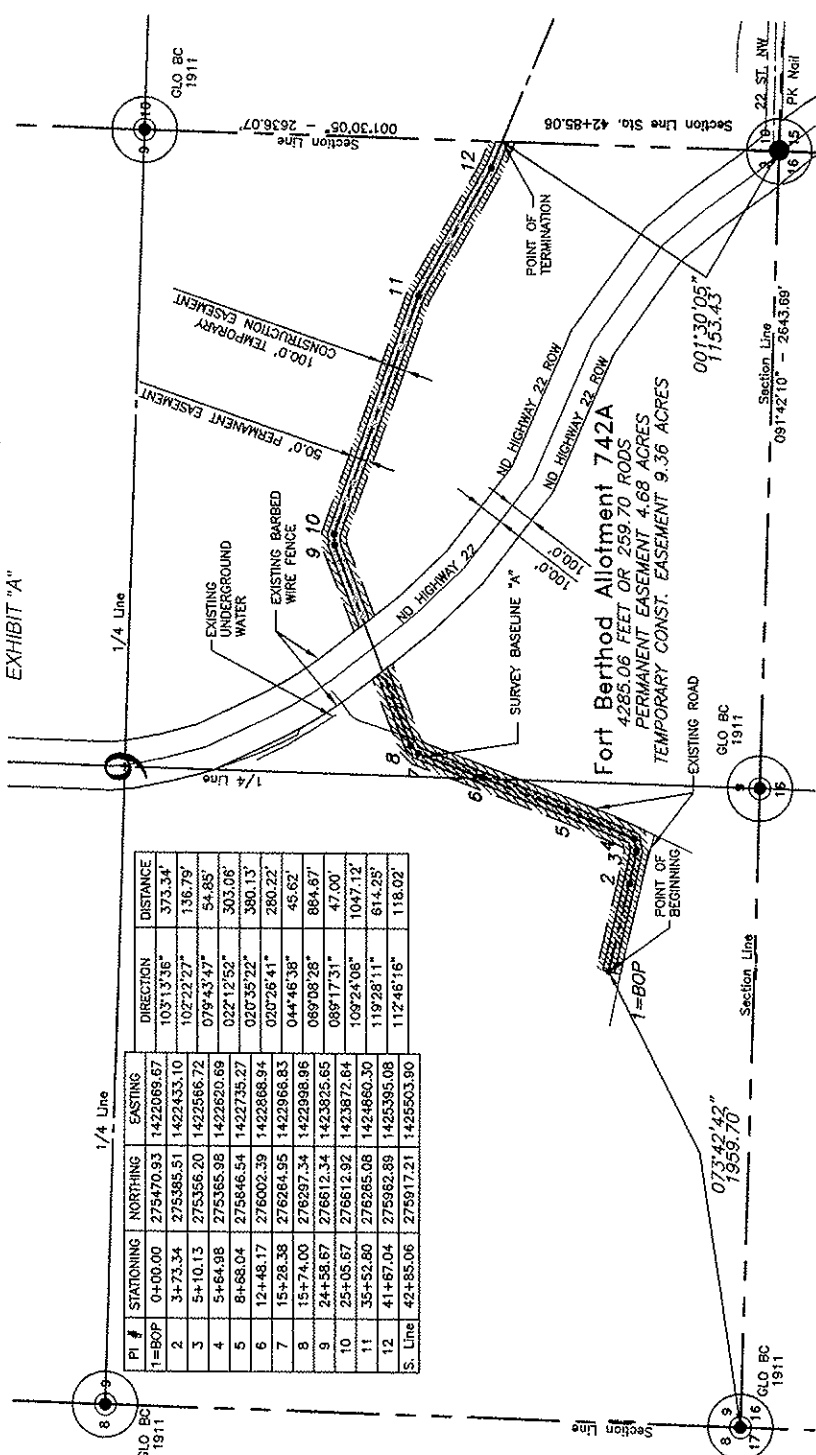
Enclosure

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

Appendix A

Mandaree 4-15 Plat

Fort Berthold Allotment 742A
 S1/2 OF SECTION 9, TOWNSHIP 149 NORTH, RANGE 94 WEST
 OF THE 5TH PRINCIPAL MERIDIAN, MCKENZIE COUNTY, NORTH DAKOTA
 EXHIBIT "A"



PI #	STATIONING	NORTHING	EASTING	DIRECTION	DISTANCE
1=BOP	0+00.00	275470.93	1422089.67	103°13'36"	373.34'
2	3+73.34	275385.51	1422433.10	102°22'27"	136.79'
3	5+10.13	275356.20	1422566.72	079°43'47"	54.85'
4	5+64.98	275365.98	1422820.69	022°12'52"	303.06'
5	8+68.04	275846.54	1422735.27	020°35'22"	380.13'
6	12+48.17	276002.39	1422868.94	020°26'41"	280.22'
7	15+28.38	276264.95	1422968.83	044°46'38"	45.62'
8	15+74.00	276297.34	1422998.96	089°08'28"	894.67'
9	24+58.67	276812.34	1423825.65	089°17'31"	47.00'
10	25+05.67	276612.92	1423872.64	109°24'06"	1047.12'
11	35+52.80	276285.08	1424860.30	119°28'11"	614.25'
12	41+67.04	275982.89	1425395.08	112°48'16"	118.02'
S. Line	42+85.06	275917.21	1425503.90		

LEGEND

SYMBOL	ITEM
---	SECTION LINE
---	1/4 LINE
---	1/8 LINE
○	SECTION CORNER
○	SECTION CORNER - ORIGINAL STONE WITH BS 4028 CAP SET
○	GRAND ROAD SHOULDER
○	TOILET CAMP
○	TRAIL
○	TEMPORARY EASEMENT LINE
○	PERMANENT EASEMENT LINE
○	CONCRETE
○	BARBED WIRE FENCE
○	WIRE FENCE
○	OVERHEAD POWER LINE
○	POWER POLE/STREET LIGHT
○	UTILITY MARKER OR SIGN
○	TELEPHONE POST/STATION
○	WELL LOCATION

SHEET 1 OF 2

DWG NO. Mandaree Lateral 4-15
 JOB NO. 3710481
 SCALE: 1:600
 PROJECT NUMBER 9-149-94-A

MANDAREE LATERAL
 MCKENZIE COUNTY, NORTH DAKOTA
 EASEMENTS ON AND ACROSS THE
 S1/2 OF SEC. 9, T.149N., R.94W.

Saddle Butte Pipeline, LLC
 838 Main Avenue, Suite 301
 Durango, CO 81301
 DATE: 07/29/11 REV: 02/2011
 DRAWN BY: D.BOWNE

Kadmas Lee & Jackson
 Registered Professional Surveyors
 1001 1st Avenue, Suite 201
 Durango, CO 81301

FIELD BOOK: OP-244, Pgs. 6-11

NOTE: Survey is based on North Dakota State Plane System, NAD83 (96), North Zone, Int. Foot. Azimuths shown are grid Azimuths, distances are ground distances. Computed scale factor is 1.000154761 to go from grid distance to ground distance.

Fort Berthold Allotment 742A
 S1/2 OF SECT. 9, TOWNSHIP 149 NORTH, RANGE 94 WEST
 OF THE 5TH PRINCIPAL MERIDIAN, MCKENZIE COUNTY, NORTH DAKOTA
 EXHIBIT "A"

SADDLE BUTTE PIPELINE COMPANY
 MANDAREE LATERAL

DESCRIPTION: PERMANENT EASEMENT SURVEY

A fifty (50) foot wide continual easement for utilities and pipelines of an oil and gas collection system over, under and across the South Half (S1/2) of Section 9, Township 149 North, Range 94 West of the 5th Principal Meridian, McKenzie County, State of North Dakota, lying twenty-five (25) feet on each side of the following described line:

Commencing at the southwest corner of said Section 9; thence on an azimuth of 073°42'42" a distance of 1959.70 feet to the POINT OF BEGINNING (PI #1=BOP); thence on an azimuth of 103°13'36" a distance of 373.34 feet to a point (PI #2); thence on an azimuth of 102°22'27" a distance of 136.79 feet to a point (PI #3); thence on an azimuth of 079°43'47" a distance of 54.85 feet to a point (PI #4); thence on an azimuth of 022°12'52" a distance of 303.06 feet to a point (PI #5); thence on an azimuth of 020°35'22" a distance of 380.13 feet to a point (PI #6); thence on an azimuth of 020°26'41" a distance of 280.22 feet to a point (PI #7); thence on an azimuth of 044°46'38" a distance of 45.62 feet to a point (PI #8); thence on an azimuth of 069°08'28" a distance of 884.67 feet to a point (PI #9); thence on an azimuth of 089°17'31" a distance of 47.00 feet to a point (PI #10); thence on an azimuth of 109°24'06" a distance of 1047.12 feet to a point (PI #11); thence on an azimuth of 119°28'11" a distance of 614.25 feet to a point (PI #12); thence on an azimuth of 112°46'16" a distance of 118.02 feet to the POINT OF TERMINATION on the east line of said South Half of Section 9. Said point is located on an azimuth of 001°30'05" along the east line of said Section 9 a distance of 1153.43 feet from the southeast corner of said Section 9.

Except that portion lying within North Dakota Highway No. 22 Right-of-Way.

Covering in all 4285.06 feet or 259.70 rods.
 Said permanent easement contains 4.68 acres, more or less.

Together with a one hundred (100) foot temporary construction easement for utilities and pipelines of an oil and gas collection system over, under and across the South Half (S1/2) of Section 9, Township 149 North, Range 94 West of the 5th Principal Meridian, McKenzie County, State of North Dakota, lying fifty (50) feet on each side of the following described line:

Commencing at the southwest corner of said Section 9; thence on an azimuth of 073°42'42" a distance of 1959.70 feet to the POINT OF BEGINNING (PI #1=BOP); thence on an azimuth of 103°13'36" a distance of 373.34 feet to a point (PI #2); thence on an azimuth of 102°22'27" a distance of 136.79 feet to a point (PI #3); thence on an azimuth of 079°43'47" a distance of 54.85 feet to a point (PI #4); thence on an azimuth of 022°12'52" a distance of 303.06 feet to a point (PI #5); thence on an azimuth of 020°35'22" a distance of 380.13 feet to a point (PI #6); thence on an azimuth of 020°26'41" a distance of 280.22 feet to a point (PI #7); thence on an azimuth of 044°46'38" a distance of 45.62 feet to a point (PI #8); thence on an azimuth of 069°08'28" a distance of 884.67 feet to a point (PI #9); thence on an azimuth of 089°17'31" a distance of 47.00 feet to a point (PI #10); thence on an azimuth of 109°24'06" a distance of 1047.12 feet to a point (PI #11); thence on an azimuth of 119°28'11" a distance of 614.25 feet to a point (PI #12); thence on an azimuth of 112°46'16" a distance of 118.02 feet to the POINT OF TERMINATION on the east line of said South Half of Section 9. Said point is located on an azimuth of 001°30'05" along the east line of said Section 9 a distance of 1153.43 feet from the southeast corner of said Section 9.

Covering in all 4285.06 feet or 259.70 rods.
 Said temporary construction easement contains 9.36 acres, more or less.

NOTES:

- Survey is based on North Dakota State Plane System, NAD83 (96), North Zone, Int. Foot. Azimuths shown are Grid Azimuths, distances shown are grid distance. Combined scale factor = 1.000154161 to go from grid distance to ground distance.
- Descriptions and sketches of easements depicted herein are based on information obtained while conducting the survey for easement acquisition and on deeds supplied by the client, and DO NOT CONSTITUTE THE RESULTS OF A FULL BOUNDARY SURVEY.



I, Rick Leach, Registered Land Surveyor, N.D. RLS No. 3496, do hereby certify that the survey plat shown hereon was made by me, or under my direction, from notes made in the field, and the same is true and correct to the best of my knowledge and belief. The field survey was performed by Kirk J. Jorgenson on July 20, 2011.

9/30/11
 Date

Rick Leach
 Rick Leach, Registered Land Surveyor
 N.D. RLS No. 3496

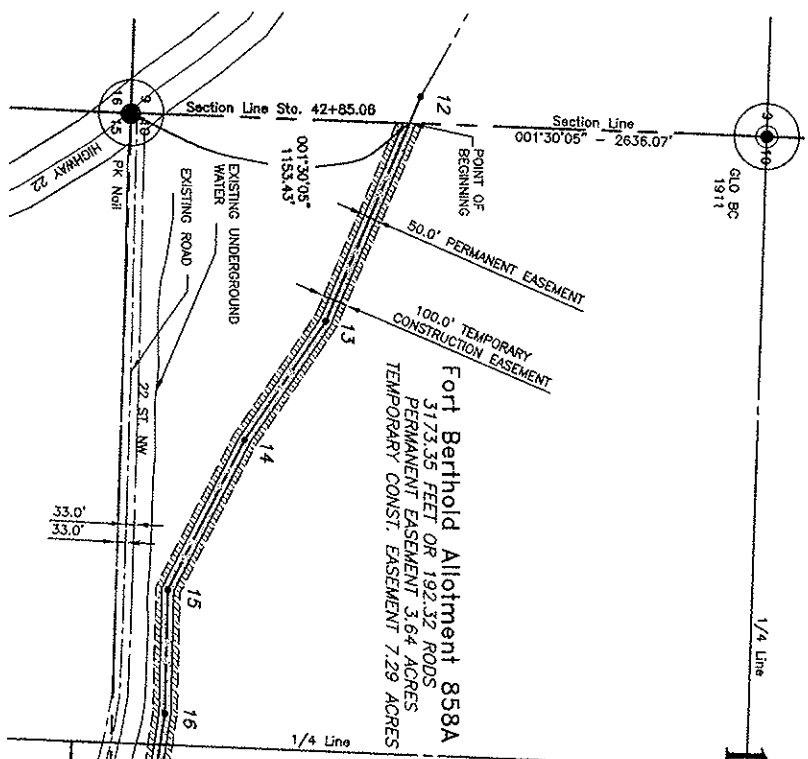
FIELD BOOK: OP-244, Pgs. 6-11

SHEET 2 OF 2

 Kadmas Lee & Jackson Engineers Surveyors Planners <small>© Kadmas, Lee & Jackson 2011</small>	 SADDLE BUTTE PIPELINE, LLC 858 Main Avenue, Suite 301 Durango, CO 81301	MANDAREE LATERAL MCKENZIE COUNTY, NORTH DAKOTA	DWG NO. Mandaree Lateral 4-15
		EASEMENTS ON AND ACROSS THE S1/2 of SEC. 9, T.149N., R.94W.	JOB NO. 3710461
DRAWN BY: D.DONNHE ORIGIN DATE: 07/29/11 REV. DATE: 9/27/11		SCALE: NONE PARCEL NUMBER 9-149-94-A	

Fort Berthold Allotment 858A
 S1/2 OF SECTION 10, TOWNSHIP 149 NORTH, RANGE 94 WEST
 OF THE 5TH PRINCIPAL MERIDIAN, MCKENZIE COUNTY, NORTH DAKOTA
EXHIBIT "A"

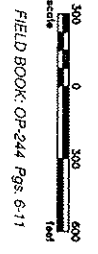
PI #	STATIONING	NORTHING	EASTING	DIRECTION	DISTANCE
S. Line	42+85.06	275917.21	1425503.90	112°48'16"	892.29'
13	51+77.35	275571.65	1426326.64	124°07'45"	565.16'
14	57+72.53	275237.92	1426819.32	116°45'23"	699.50'
15	64+72.03	274923.01	1427443.92	091°16'20"	512.27'
16	69+84.30	274911.63	1427956.08	098°29'37"	226.89'
17	72+11.29	274878.11	1428180.56	118°35'28"	95.29'
18	73+06.58	274832.50	1428264.24	163°28'20"	57.10'
19	73+63.69	274777.76	1428280.48	181°50'28"	94.72'
S. Line	74+58.41	274683.08	1428277.44		



LEGEND

SYMBOL	ITEM
(---)	SECTION LINE
(---)	1/4 LINE
(---)	SECTION CORNER - GENERAL STONE
(---)	SECTION CORNER - IRON NAIL
(---)	WELL R.S. 4448 CUP SET
(---)	GRAVEL ROAD SHOULDER
(---)	DRIVE CLAW
(---)	TREE ROWS, BRUSH
(---)	DRAINAGE LINE
(---)	GRASSY ENCLOSURE
(---)	WELLER FENCE
(---)	OVERHEAD POWER LINE
(---)	POWER POLE/STREET LIGHT
(---)	UTILITY MARKER OR SIGN
(---)	TELEPHONE PERSIVAL
(---)	WELL LOCATOR

NOTE:
 Survey is based on North Dakota State Plane System, NAD83 (96), North Zone, mt. Foot. Azimuths shown are Grid Azimuths, distances are true distances. Computed scale factor is 1.00015416 to go from grid distance to ground distance.



Kadmas Lee & Jackson
 Registered Surveyors
 858 Main Avenue, Suite 301
 Fargo, ND 58101
 PHONE: 701/291-1111 FAX: 701/291-1111

MANDARIE LATERAL ROUTE
 MCKENZIE COUNTY, NORTH DAKOTA
 EASEMENTS ON AND ACROSS THE
 S1/2 OF SEC. 10, T. 149N., R. 94W.

Fort Berthold Allotment 858A
 S1/2 OF SECTION 10, TOWNSHIP 149 NORTH, RANGE 94 WEST
 OF THE 5TH PRINCIPAL MERIDIAN, MCKENZIE COUNTY, NORTH DAKOTA
 EXHIBIT "A"

SADDLE BUTTE PIPELINE COMPANY
 MANDAREE LATERAL

DESCRIPTION: PERMANENT EASEMENT SURVEY

A fifty (50) foot wide continual easement for utilities and pipelines of an oil and gas collection system over, under and across the South Half (S1/2) of Section 10, Township 149 North, Range 94 West of the 5th Principal Meridian, McKenzie County, State of North Dakota, lying twenty-five (25) feet on each side of the following described line:

Commencing at the southwest corner of said Section 10; thence along the west line of said South Half of Section 10 on an azimuth of 001°30'05" a distance of 1153.43 feet to the POINT OF BEGINNING; thence on an azimuth of 112°46'16" a distance of 892.29 feet to a point (PI #13); thence on an azimuth of 124°07'45" a distance of 595.18 feet to a point (PI #14); thence on an azimuth of 116°45'23" a distance of 699.50 feet to a point (PI #15); thence on an azimuth of 091°16'20" a distance of 512.27 feet to a point (PI #16); thence on an azimuth of 098°29'37" a distance of 226.99 feet to a point (PI #17); thence on an azimuth of 118°35'28" a distance of 95.29 feet to a point (PI #18); thence on an azimuth of 163°28'20" a distance of 57.10 feet to a point (PI #19); thence on an azimuth of 181°50'28" a distance of 94.72 feet to the POINT OF TERMINATION on the south line of said South Half of Section 10. Said point is located on an azimuth of 271°39'24" along the south line of said Section 10, a distance of 2459.45 feet from the Southeast corner of said Section 10.

Covering in all 3173.35 feet or 192.32 rods.
 Said permanent easement contains 3.64 acres, more or less.

Together with a one hundred (100) foot temporary construction easement for utilities and pipelines of an oil and gas collection system over, under and across the South Half (S1/2) of Section 10, Township 149 North, Range 94 West of the 5th Principal Meridian, McKenzie County, State of North Dakota, lying fifty (50) feet on each side of the following described line:

Commencing at the southwest corner of said Section 10; thence along the west line of said South Half of Section 10 on an azimuth of 001°30'05" a distance of 1153.43 feet to the POINT OF BEGINNING; thence on an azimuth of 112°46'16" a distance of 892.29 feet to a point (PI #13); thence on an azimuth of 124°07'45" a distance of 595.18 feet to a point (PI #14); thence on an azimuth of 116°45'23" a distance of 699.50 feet to a point (PI #15); thence on an azimuth of 091°16'20" a distance of 512.27 feet to a point (PI #16); thence on an azimuth of 098°29'37" a distance of 226.99 feet to a point (PI #17); thence on an azimuth of 118°35'28" a distance of 95.29 feet to a point (PI #18); thence on an azimuth of 163°28'20" a distance of 57.10 feet to a point (PI #19); thence on an azimuth of 181°50'28" a distance of 94.72 feet to the POINT OF TERMINATION on the south line of said South Half of Section 10. Said point is located on an azimuth of 271°39'24" along the south line of said Section 10, a distance of 2459.45 feet from the Southeast corner of said Section 10.

Covering in all 3173.35 feet or 192.32 rods.
 Said temporary construction easement contains 7.29 acres, more or less.

NOTES:

- Survey is based on North Dakota State Plane System, NAD83 (96), North Zone, Int. Foot. Azimuths shown are Grid Azimuths, distances shown are grid distance. Combined scale factor = 1.000154161 to go from grid distance to ground distance.
- Descriptions and sketches of easements depicted herein are based on information obtained while conducting the survey for easement acquisition and on deeds supplied by the client, and DO NOT CONSTITUTE THE RESULTS OF A FULL BOUNDARY SURVEY.



I, Rick Leach, Registered Land Surveyor, N.D. RLS No. 3496, do hereby certify that the survey plot shown hereon was made by me, or under my direction, from notes made in the field, and the same is true and correct to the best of my knowledge and belief. The field survey was performed by Kirk J. Jorgenson on July 20, 2011.

Date 9/30/11

Rick Leach
 Rick Leach, Registered Land Surveyor
 N.D. RLS No. 3496

FIELD BOOK: OP-244, Pgs. 6-11

SHEET 2 OF 2

 Kadmas Lee & Jackson Engineers Surveyors Planners © Kadmas, Lee & Jackson 2011	 SADDLE BUTTE PIPELINE, L.P. 858 Main Avenue, Suite 301 Durango, CO 81301	MANDAREE LATERAL MCKENZIE COUNTY, NORTH DAKOTA	DWG NO. Mandaree Lateral 4-15
		EASEMENTS ON AND ACROSS THE S1/2 of SEC. 10, T.149N., R.94W.	JOB NO. 3710461
DRAWN BY: D.DIONNE ORIGIN DATE: 07/29/11 REV. DATE: 9/27/11		SCALE: NONE PARCEL NUMBER 10-149-94-A	

Fort Berthold Allotment 862A-E
 10 ACRE TRACT LYING IN THE NORTHEAST QUARTER
 OF SECTION 15, TOWNSHIP 149 NORTH, RANGE 94 WEST
 OF THE 5TH PRINCIPAL MERIDIAN, MCKENZIE COUNTY, NORTH DAKOTA
 EXHIBIT "A"

SADDLE BUTTE PIPELINE COMPANY
 MANDAREE LATERAL

DESCRIPTION: PERMANENT EASEMENT SURVEY

A fifty (50) foot wide continual easement for utilities and pipelines of an oil and gas collection system over, under and across a 10 Acre tract lying in the Northeast Quarter of Section 15, Township 149 North, Range 94 West of the 5th Principal Meridian, McKenzie County, State of North Dakota, lying twenty-five (25) feet on each side of the following described line:

Commencing at the northeast corner of said Section 15; thence along the north line of said Section 15 on an azimuth of 271°39'24" a distance of 2459.45 feet to the POINT OF BEGINNING; thence on an azimuth of 181°50'28" a distance of 164.56 feet to the POINT OF TERMINATION. Said point is located on an azimuth of 267°50'30" a distance of 2465.95 feet from the northeast corner of said Section 15.

Covering in all 164.56 feet or 9.97 rods.
 Said permanent easement contains 0.19 acres, more or less.

Together with a one hundred (100) foot temporary construction easement for utilities of an oil and gas collection system over, under and across a 10 Acre tract lying in the Northeast Quarter of Section 15, Township 149 North, Range 94 West of the 5th Principal Meridian, McKenzie County, State of North Dakota, lying fifty (50) feet on each side of the following described line:

Commencing at the northeast corner of said Section 15; thence along the north line of said Section 15 on an azimuth of 271°39'24" a distance of 2459.45 feet to the POINT OF BEGINNING; thence on an azimuth of 181°50'28" a distance of 164.56 feet to the POINT OF TERMINATION. Said point is located on an azimuth of 267°50'30" a distance of 2465.95 feet from the northeast corner of said Section 15.

Covering in all 164.56 feet or 9.97 rods.
 Said temporary construction easement contains 0.38 acres, more or less.

NOTES:

- Survey is based on North Dakota State Plane System, NAD83 (96), North Zone, Int. Foot. Azimuths shown are Grid Azimuths, distances shown are grid distance. Combined scale factor = 1.000154161 to go from grid distance to ground distance.
- Descriptions and sketches of easements depicted herein are based on information obtained while conducting the survey for easement acquisition and on deeds supplied by the client, and DO NOT CONSTITUTE THE RESULTS OF A FULL BOUNDARY SURVEY.



I, Rick Leach, Registered Land Surveyor, N.D. RLS No. 3496, do hereby certify that the survey plat shown hereon was made by me, or under my direction, from notes made in the field, and the same is true and correct to the best of my knowledge and belief. The field survey was performed by Kirk J. Jorgenson on July 20, 2011.

9/30/11
 Date

Rick Leach
 Rick Leach, Registered Land Surveyor
 N.D. RLS No. 3496

FIELD BOOK: OP-244, Pgs. 6-11

SHEET 3 OF 3

 Kadmas Lee & Jackson Engineers Surveyors Planners © Kadmas, Lee & Jackson 2011	 SADDLE BUTTE PIPELINE, L.L.C. 858 Main Avenue, Suite 301 Durango, CO 81301	MANDAREE LATERAL MCKENZIE COUNTY, NORTH DAKOTA	DWG NO. Mandaree Lateral 4-15
		EASEMENTS ON AND ACROSS THE 10 ACRE TRACT LYING IN THE NORTHEAST QUARTER OF SEC. 15, T.149N., R.94W.	JOB NO. 3710461
DRAWN BY: D.DONNE ORIGINAL DATE: 07/29/11 REV. DATE: 9/27/11		SCALE: NONE	PARCEL NUMBER 15-149-94-A

Fort Berthold Allotment 862A-A
W1/2NE1/4 OF SECTION 15, TOWNSHIP 149 NORTH, RANGE 94 WEST
OF THE 5TH PRINCIPAL MERIDIAN, MCKENZIE COUNTY, NORTH DAKOTA
EXHIBIT "A"

SADDLE BUTTE PIPELINE COMPANY
MANDAREE LATERAL

DESCRIPTION: PERMANENT EASEMENT SURVEY

A fifty (50) foot wide continual easement for utilities and pipelines of an oil and gas collection system over, under and across the West Half of the Northeast Quarter (W1/2NE1/4) of Section 15, Township 149 North, Range 94 West of the 5th Principal Meridian, McKenzie County, State of North Dakota, lying twenty-five (25) feet on each side of the following described line:

Commencing at the northeast corner of said Section 15; thence on an azimuth of 267°50'30" a distance of 2465.95 feet to a point on the south line of a 10 acre tract of land and the POINT OF BEGINNING; thence on an azimuth of 181°50'28" a distance of 97.99 feet to a point (PI #20); thence on an azimuth of 181°50'12" a distance of 386.49 feet to a point (PI #21); thence on an azimuth of 195°19'33" a distance of 227.41 feet to a point (PI #22); thence on an azimuth of 197°51'01" a distance of 107.88 feet to a point (PI #23); thence on an azimuth of 187°56'37" a distance of 226.69 feet to a point (PI #24); thence on an azimuth of 165°15'23" a distance of 68.39 feet to a point (PI #25); thence on an azimuth of 138°48'51" a distance of 111.01 feet to a point (PI #26); thence on an azimuth of 141°22'10" a distance of 175.65 feet to a point (PI #27); thence on an azimuth of 164°54'40" a distance of 300.88 feet to a point (PI #28); thence on an azimuth of 167°07'29" a distance of 402.13 feet to a point (PI #29); thence on an azimuth of 183°30'00" a distance of 386.57 feet to a point (PI #30); thence on an azimuth of 155°06'36" a distance of 99.28 feet to the POINT OF TERMINATION on the south line of said Northeast Quarter of Section 15. Said point is located on an azimuth of 271°40'07" along the south line of said Northeast Quarter of Section 15, a distance of 2142.91 feet from the East Quarter corner of said Section 15.

Covering in all 2590.36 feet or 156.99 rods.
Said permanent easement contains 2.97 acres, more or less.

Together with a one hundred (100) foot wide temporary construction easement for utilities of an oil and gas collection system over, under and across the West Half of the Northeast Quarter (W1/2NE1/4) of Section 15, Township 149 North, Range 94 West of the 5th Principal Meridian, McKenzie County, State of North Dakota, lying fifty (50) feet on each side of the following described line:

Commencing at the northeast corner of said Section 15; thence on an azimuth of 267°50'30" a distance of 2465.95 feet to a point on the south line of a 10 acre tract of land and the POINT OF BEGINNING; thence on an azimuth of 181°50'28" a distance of 97.99 feet to a point (PI #20); thence on an azimuth of 181°50'12" a distance of 386.49 feet to a point (PI #21); thence on an azimuth of 195°19'33" a distance of 227.41 feet to a point (PI #22); thence on an azimuth of 197°51'01" a distance of 107.88 feet to a point (PI #23); thence on an azimuth of 187°56'37" a distance of 226.69 feet to a point (PI #24); thence on an azimuth of 165°15'23" a distance of 68.39 feet to a point (PI #25); thence on an azimuth of 138°48'51" a distance of 111.01 feet to a point (PI #26); thence on an azimuth of 141°22'10" a distance of 175.65 feet to a point (PI #27); thence on an azimuth of 164°54'40" a distance of 300.88 feet to a point (PI #28); thence on an azimuth of 167°07'29" a distance of 402.13 feet to a point (PI #29); thence on an azimuth of 183°30'00" a distance of 386.57 feet to a point (PI #30); thence on an azimuth of 155°06'36" a distance of 99.28 feet to the POINT OF TERMINATION on the south line of said Northeast Quarter of Section 15. Said point is located on an azimuth of 271°40'07" along the south line of said Northeast Quarter of Section 15, a distance of 2142.91 feet from the East Quarter corner of said Section 15.

Covering in all 2590.36 feet or 156.99 rods.
Said temporary construction easement contains 5.95 acres, more or less.

NOTES:

- Survey is based on North Dakota State Plane System, NAD83 (96), North Zone, Int. Foot. Azimuths shown are Grid Azimuths, distances shown are grid distance. Combined scale factor = 1.000154161 to go from grid distance to ground distance.
- Descriptions and sketches of easements depicted herein are based on information obtained while conducting the survey for easement acquisition and on deeds supplied by the client, and DO NOT CONSTITUTE THE RESULTS OF A FULL BOUNDARY SURVEY.



I, Rick Leach, Registered Land Surveyor, N.D. RLS No. 3496, do hereby certify that the survey plat shown hereon was made by me, or under my direction, from notes made in the field, and the same is true and correct to the best of my knowledge and belief. The field survey was performed by Kirk J. Jorgenson on July 20, 2011.

Date 9/30/11

Rick Leach
Rick Leach, Registered Land Surveyor
N.D. RLS No. 3496

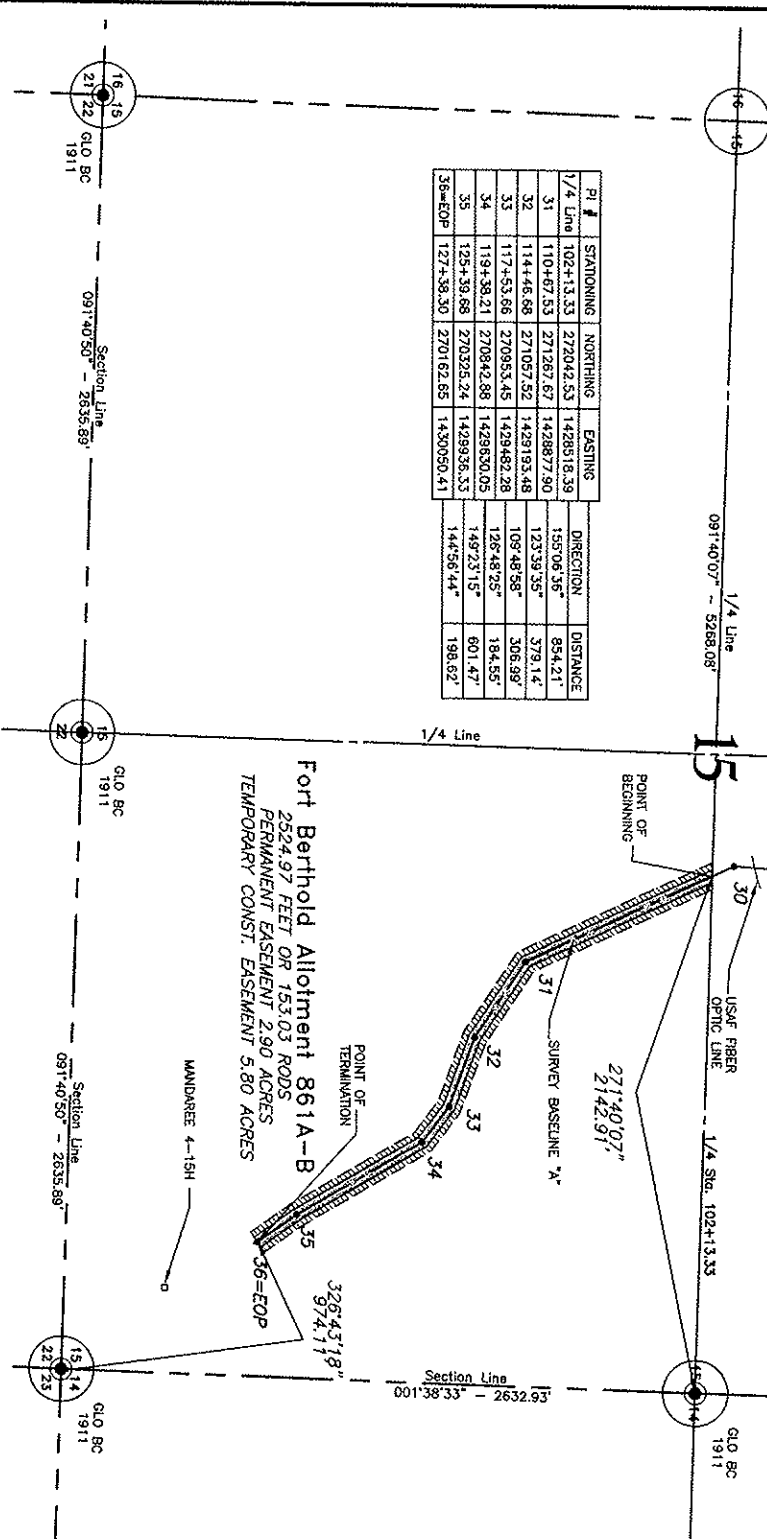
FIELD BOOK: OP-244, Pgs. 6-11

SHEET 2 OF 2

 Kadmas Lee & Jackson Engineers Surveyors Planners © Kadmas, Lee & Jackson 2011	 SADDLE BUTTE PIPELINE, L.L.C. 858 Main Avenue, Suite 301 Durango, CO 81301	MANDAREE LATERAL MCKENZIE COUNTY, NORTH DAKOTA	DWG NO. Mandaree Lateral 4-15 JOB NO. 3710461
		EASEMENTS ON AND ACROSS THE W1/2NE1/4 OF SEC. 15, T.149N., R.94W.	SCALE: NONE PARCEL NUMBER 15-149-94-A

Fort Berthold Allotment 861A-B
 SET 1/4 OF SECTION 15, TOWNSHIP 149 NORTH, RANGE 94 WEST
 OF THE 5TH PRINCIPAL MERIDIAN, MCKENZIE COUNTY, NORTH DAKOTA
 EXHIBIT "A"

PI #	STATIONING	NORTHING	EASTING	DIRECTION	DISTANCE
1/4 Line	102+13.33	272042.53	1428518.39		
31	110+67.53	271267.67	1428877.90	155°06'36"	854.21'
32	114+46.66	271057.52	1429193.48	123°39'35"	379.14'
33	117+53.66	270953.45	1429462.28	109°49'58"	308.99'
34	119+38.21	270842.88	1429530.05	128°48'25"	184.55'
35	125+39.68	270325.24	1429936.33	149°23'15"	601.47'
36=EOP	127+39.30	270162.65	1430050.41	144°56'44"	198.62'

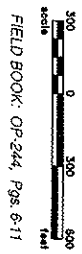


Fort Berthold Allotment 861A-B
 2524.97 FEET OR 153.03 RODS
 PERMANENT EASEMENT 2.90 ACRES
 TEMPORARY CONST. EASEMENT 5.80 ACRES

LEGEND

SYMBOL	ITEM
---	SECTION LINE
---	1/4 LINE
---	SECTION CORNER - ORIGINAL SURVEY
---	SECTION CORNER - RECON SURVEY
---	WELL RES. MARK CAP SET
---	ROUND ROAD SHOULDERS
---	CATTLE GUARD
---	TREE ROWS, BIRDS
---	ORANGE LINE
---	CONVENT
---	BARBED WIRE FENCE
---	OPENED SPERM LARVA
---	POWER RELAY/STREET LIGHT
---	UTILITY MARKER OR SIGN
---	TELEPHONE EXISTENTIAL
---	WELL LOCATION

NOTE:
 Survey is based on North Dakota State Plane System, NAD83 (96), North Zone, Int. Foot. Azimuths shown are Grid Azimuths, distances shown are grid distance. Combined scale factor = 1.000154181 to go from grid distance to ground distance.



Kadims Tee S. JACKSON Registered Surveyor 838 Main Avenue, Suite 301 Dunwoody, CO 81001	 S&S SURVEYORS & ENGINEERS, P.C. 838 Main Avenue, Suite 301 Dunwoody, CO 81001
---	---

MANDAREE LATERAL
 MCKENZIE COUNTY, NORTH DAKOTA
 EASEMENTS ON AND ACROSS THE
 SET 1/4 OF SEC. 15, T.149N., R.94W.

SHEET 1 OF 2
 DWG. NO. Wndoree Lateral 4-15
 JOB NO. 3710461
 SCALE: 1:800
 PLOT DATE: 15-149-94-B

Fort Berthold Allotment 861A-B
 SE1/4 OF SECTION 15, TOWNSHIP 149 NORTH, RANGE 94 WEST
 OF THE 5TH PRINCIPAL MERIDIAN, MCKENZIE COUNTY, NORTH DAKOTA
 EXHIBIT "A"

**SADDLE BUTTE PIPELINE COMPANY
 MANDAREE LATERAL**

DESCRIPTION: PERMANENT EASEMENT SURVEY

A fifty (50) foot wide continual easement for utilities and pipelines of an oil and gas collection system over, under and across the Southeast Quarter (SE1/4) of Section 15, Township 149 North, Range 94 West of the 5th Principal Meridian, McKenzie County, State of North Dakota, lying twenty-five (25) feet on each side of the following described line:

Commencing at the northeast corner of said Southeast Quarter of Section 15; thence along the north line of said Southeast Quarter of Section 15 on an azimuth of 271°40'07" a distance of 2142.91 feet to the POINT OF BEGINNING; thence on an azimuth of 155°06'36" a distance of 854.21 feet to a point (PI #31); thence on an azimuth of 123°39'35" a distance of 379.14 feet to a point (PI #32); thence on an azimuth of 109°48'58" a distance of 306.99 feet to a point (PI #33); thence on an azimuth of 126°48'25" a distance of 184.55 feet to a point (PI #34); thence on an azimuth of 149°23'15" a distance of 601.47' to a point (PI #35); thence on an azimuth of 144°56'44" a distance of 198.62 feet to the POINT OF TERMINATION (PI #36=EOP). Said point is located on an azimuth of 326°43'18" a distance of 974.11 feet from the southeast corner of said Section 15.

Covering in all 2524.97 feet or 153.03 rods.
 Said permanent easement contains 2.90 acres, more or less.

Together with a one hundred (100) foot wide temporary construction easement for utilities of an oil and gas collection system over, under and across the Southeast Quarter (SE1/4) of Section 15, Township 149 North, Range 94 West of the 5th Principal Meridian, McKenzie County, State of North Dakota, lying fifty (50) feet on each side of the following described line:

Commencing at the northeast corner of said Southeast Quarter of Section 15; thence along the north line of said Southeast Quarter of Section 15 on an azimuth of 271°40'07" a distance of 2142.91 feet to the POINT OF BEGINNING; thence on an azimuth of 155°06'36" a distance of 854.21 feet to a point (PI #31); thence on an azimuth of 123°39'35" a distance of 379.14 feet to a point (PI #32); thence on an azimuth of 109°48'58" a distance of 306.99 feet to a point (PI #33); thence on an azimuth of 126°48'25" a distance of 184.55 feet to a point (PI #34); thence on an azimuth of 149°23'15" a distance of 601.47' to a point (PI #35); thence on an azimuth of 144°56'44" a distance of 198.62 feet to the POINT OF TERMINATION (PI #36=EOP). Said point is located on an azimuth of 326°43'18" a distance of 974.11 feet from the southeast corner of said Section 15.

Covering in all 2524.97 feet or 153.03 rods.
 Said temporary construction easement contains 5.80 acres, more or less.

NOTES:

- Survey is based on North Dakota State Plane System, NAD83 (96), North Zone, Int. Foot. Azimuths shown are Grid Azimuths, distances shown are grid distance. Combined scale factor = 1.000154161 to go from grid distance to ground distance.
- Descriptions and sketches of easements depicted herein are based on information obtained while conducting the survey for easement acquisition and on deeds supplied by the client, and DO NOT CONSTITUTE THE RESULTS OF A FULL BOUNDARY SURVEY.





I, Rick Leach, Registered Land Surveyor, N.D. RLS No. 3496, do hereby certify that the survey plat shown hereon was made by me, or under my direction, from notes made in the field, and the same is true and correct to the best of my knowledge and belief. The field survey was performed by Kirk J. Jorgenson on July 20, 2011.

Date 9/30/11


 Rick Leach, Registered Land Surveyor
 N.D. RLS No. 3496

FIELD BOOK: OP-244, Pgs. 6-11

SHEET 2 OF 2

 Kadrmas, Lee & Jackson 2011	 SADDLE BUTTE PIPELINE, L.L.C. 858 Main Avenue, Suite 301 Durango, CO 81301	MANDAREE LATERAL MCKENZIE COUNTY, NORTH DAKOTA	DWG NO. Mandaree Lateral 4-15
		EASEMENTS ON AND ACROSS THE SE1/4 OF SEC. 15, T.149N., R.94W.	JOB NO. 3710461
DRAWN BY: D.DIONNE ORIGIN DATE: 07/29/11 REV. DATE: 9/27/2011			SCALE: NONE PARCEL NUMBER 15-149-94-B