



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

SEP 26 2012

IN REPLY REFER TO:
DESCRM
MC-208

MEMORANDUM

TO: Superintendent, Fort Berthold Agency

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

SUBJECT: Environmental Assessment Addendum and Finding of No Significant Impact

In compliance with the regulations of the National Environmental Policy Act (NEPA) of 1969, as amended, an Environmental Assessment Addendum has been completed and a Finding of No Significant Impact (FONSI) has been issued. The Addendum authorizes land use for the High Hawk 4-9H well pad expansion on the Fort Berthold Indian Reservation.

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

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

Attachment

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

Finding of No Significant Impact

WPX Energy Williston, LLC

*Addendum to Environmental Assessment to Authorize
High Hawk 4-9H Well Pad Expansion
Fort Berthold Indian Reservation
Dunn County, North Dakota*

The U.S. Bureau of Indian Affairs (BIA) has received a proposal to authorize land use for the High Hawk 4-9H Well Pad Expansion on the Fort Berthold Reservation. The High Hawk 4-9H well pad is located in the north ½ of the northwest ¼ of Section 9, Township 149 North, Range 92 West, Dunn County, North Dakota. The additional High Hawk 4-9HA well surface hole will be located 349 feet from the north line (FNL) and 1,125 feet from the west line (FWL) in Section 9. 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.

Tim Lapointe
Regional Director

ACTING

9-26-2012
Date

Notice of Availability and Appeal Rights

WPX Energy: High Hawk 4-9H Well Pad Expansion

The Bureau of Indian Affairs (BIA) is planning to issue administrative approvals related to the High Hawk 4-9H Well Pad Expansion on the Berthold Reservation as shown on the attached map. Construction by WPX Energy is expected to begin in 2012.

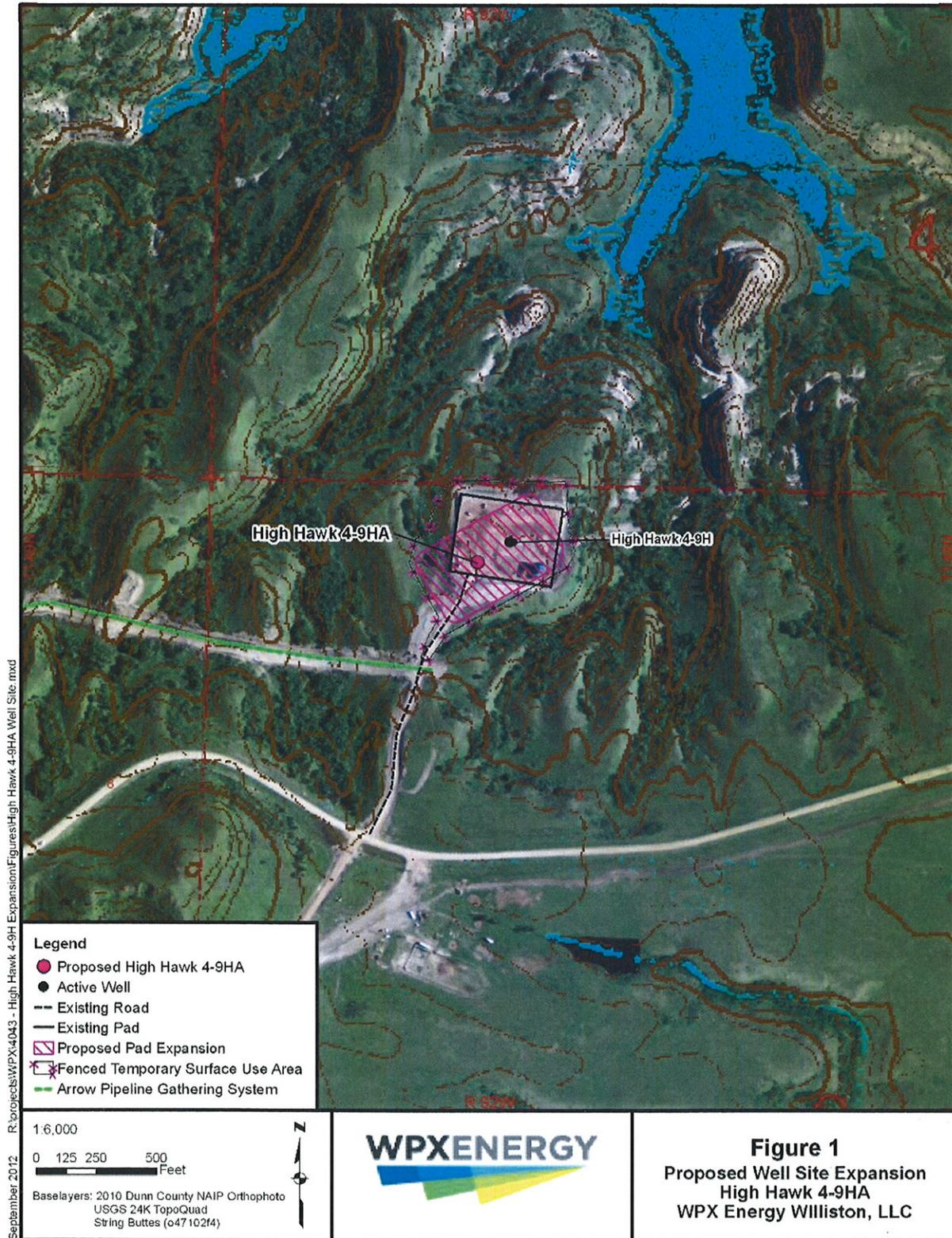
An environmental assessment (EA) determined that proposed activities will not cause significant impacts to the human environment. An environmental impact statement is not required. Contact Earl Silk, Superintendent at 701-627-6570 for more information and/or copies of the EA and the Finding of No Significant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

The FONSI is only a finding on environmental impacts – it is not a decision to proceed with an action and *cannot* be appealed. BIA's decision to proceed with administrative actions *can* be appealed until October 26, 2012, by contacting:

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

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

Project locations.



**ENVIRONMENTAL ASSESSMENT
ADDENDUM**

United States Bureau of Indian Affairs

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



WPX Energy Williston, LLC

**Addendum to Environmental Assessment to Authorize
High Hawk 4-9H Well Pad Expansion**

Fort Berthold Indian Reservation

September 2012

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

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APPENDIX A Plats, Drawings, and Diagrams for the High Hawk 4-9H Expansion

1.0 Purpose and Need of Action

WPX Energy Williston, LLC (WPX), formerly Zenergy/Dakota-3 E&P, is proposing to drill one additional horizontal oil and gas well on the Fort Berthold Indian Reservation to develop the commercial potential of natural resources. 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 WPX to expand the High Hawk 4-9H well pad to accommodate an additional well (Figure 1). The existing access and utility corridor for the well site will be utilized; however, a portion of the existing pipelines will need to be relocated within the existing right-of-way.

2.0 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.).

3.0 Legal Land Descriptions of Proposed Action

The High Hawk 4-9H well pad is located in the north ½ of the northwest ¼ of Section 9, Township 149 North, Range 92 West, Dunn County, North Dakota. The additional High Hawk 4-9HA well surface hole will be located 349 feet from the north line (FNL) and 1,125 feet from the west line (FWL) in Section 9. The target bottom hole is 250 feet FSL and 600 feet FWL also in Section 9.

4.0 Scope of Work for Proposed Action

WPX proposes to expand the High Hawk 4-9H well pad an approximate 125 feet to the south, 75 feet to the east, and 150 feet to the west to accommodate the drilling of the High Hawk 4-9HA well. The proposed expanded well pad will be rotated to fit with the existing topography and the facilities will be relocated on the reconfigured well pad. A large portion of the proposed expansion will take place in the area of original pad surface disturbance which has been reclaimed. The additional surface disturbance outside of the original construction disturbance will be approximately 2.4 acres. Interim reclamation will reduce the surfaced working pad size to approximately 3.5 acres.

5.0 Resources Surveys

Carlson McCain, Inc (Carlson McCain) performed the natural resource evaluation. Metcalf Archaeological Consultants, Inc (MAC) performed the cultural resource survey. The proposed pad expansion area was evaluated to determine potential affects to cultural and natural (i.e., biological and physical) resources such as topography, natural drainage and erosion control, location of topsoil and subsoil stockpiles, flora, fauna, and wildlife habitat. Site-specific mitigation measures were discussed and incorporated into the final project design to minimize impacts to evaluated resources, as discussed below. The cultural resource report summary is presented below. The entire report was submitted to the BIA under separate cover (Green, 2012).

5.1 Natural Resource Survey

The natural resource surveys were conducted on June 8 and June 22, 2012. The proposed expansion area is located within an area of rolling prairie that is dissected by a wooded drainage. The majority of the expansion area is located within the recently reclaimed area of the original pad. Vegetation at the edges of the reclamation was moderate to tall ranging from 10 cm to 30 cm. Dominate species in this rolling prairie community are little bluestem (*Schizachyrium scoparium*), green needlegrass (*Nassella viridula*), needle-and-thread (*Hesperostipa comata*) and Kentucky bluegrass (*Poa pratensis*). Common forbs included fringed sagewort (*Artemisia frigida*), candle anemone (*Anemone cylindrica*), blue flax (*Linum perenne*), prairie coneflower (*Ratibida columnifera*), stiff sunflower (*Helianthus rigidus*), and goats beard (*Tragopogon dubius*). The Site is dissected by a wooded drainage on the west side of the proposed expansion that is characterized by green ash (*Fraxinus pennsylvanica*) canopy, a shrub layer comprised of chokecherry (*Prunus virginiana*) and western snowberry (*Symphoricarpos occidentalis*), and a herbaceous layer dominated by Kentucky bluegrass. A small isolated patch of green ash and chokecherry at the head of the drainage will be removed by pad construction. Woody debris will be mulched and mixed into topsoil to be stored and then spread at interim reclamation.

A ground survey for cliff, tree, and ground raptor nests was conducted within 0.5-mile of the proposed project during the on-site evaluation. No raptors nests were observed during the on-site survey; however, a golden eagle was sighted soaring within the survey area. The area was also reviewed to identify the presence of migratory bird species as well as nests located within the disturbance area. No nests or migratory birds were observed in the area although potential habitat was located within the area. If the surface will be disturbed during the spring nesting season (February 1 - July 15) surveys for migratory birds (including raptors) and nests will be conducted within five-days of construction. T&E species affect determinations are the same as in the original environmental assessment.

5.2 Cultural Resource Survey

A cultural resource inventory of this well pad expansion project was conducted by personnel of Metcalf Archaeological Consultants, Inc., using an intensive pedestrian methodology. Approximately 67.5 acres were inventoried on June 1, 2012 (Green 2012). One previously recorded archaeological site could not be relocated that may possess the quality of integrity and meet at least one of the criteria (36 CFR 60.6) for inclusion on the National Register. As the lead federal agency, and as provided for in 36 CFR 800.5, on the basis of the information provided, BIA reached a determination of **no historic properties affected** for this undertaking. This determination was communicated to the THPO on June 27, 2012; however the THPO did not respond within the allotted 30 day comment period.

6.0 Mitigation

The original natural resource considerations, mitigation and commitments outlined in original EA were discussed at the on-site evaluation and will be adhered to. Additional specific mitigation actions include the avoidance of the native wooded draws to extent possible, closed-loop drilling, construction of 24-inch tall berm on pad, installing 36-inch steel containment barriers around facilities, and utilizing all standard BMP's such as installing silt fences and erosion fabric, mats or logs on slopes; construction of ditches and/or water bars on steep slopes. Woody debris will be mulched and mixed into topsoil and seeding of approved BIA grass mix will occur. Indefinite monitoring of seeding success and weed species control and maintenance will occur as needed to maintain environmental protections. Additional raptor and migratory bird nesting surveys will be conducted five-days prior to construction if surface disturbance activities are proposed between February 1 and July 15.

7.0 Applicable National Environmental Policy Act (NEPA) Document(s)

Environmental Assessment: Zenergy Operating Company, LLC, Dakota-3 Benson #3-9H, Dakota-3 High Hawk #4-9H, Dakota-3 Joseph Eagle #16-19H, Dakota-3 Fettig (860 A-B) #16-22H and Dakota-3 Morsette #35-26H (January, 2010). FONSI issued January 20, 2010.

8.0 Other Relevant Documentation

Green, Debra K. 2012. *WPX Energy's High Hawk (#212) Well Pad: A Class III Cultural Resource Inventory, Ft. Berthold Reservation, Dunn County, North Dakota.* Metcalf Archaeological Consultants, Inc., Bismarck, ND. Submitted to the BIA: June 15, 2012.

9.0 NEPA Adequacy Criteria

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

1. The proposed action is substantially the same action and at the site specifically analyzed in the existing NEPA document.
2. The range of alternatives is reasonable with respect to the current proposed action in the existing NEPA document, which appropriately considers and analyzes current environmental concerns, interests, and resource values.
3. The existing analysis and conclusions are adequate in the existing NEPA document. The analysis is still valid in light of new studies or resource assessment information.
4. The methodology and analytical approach used in the existing NEPA document continues to be appropriate for the proposed action.
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.

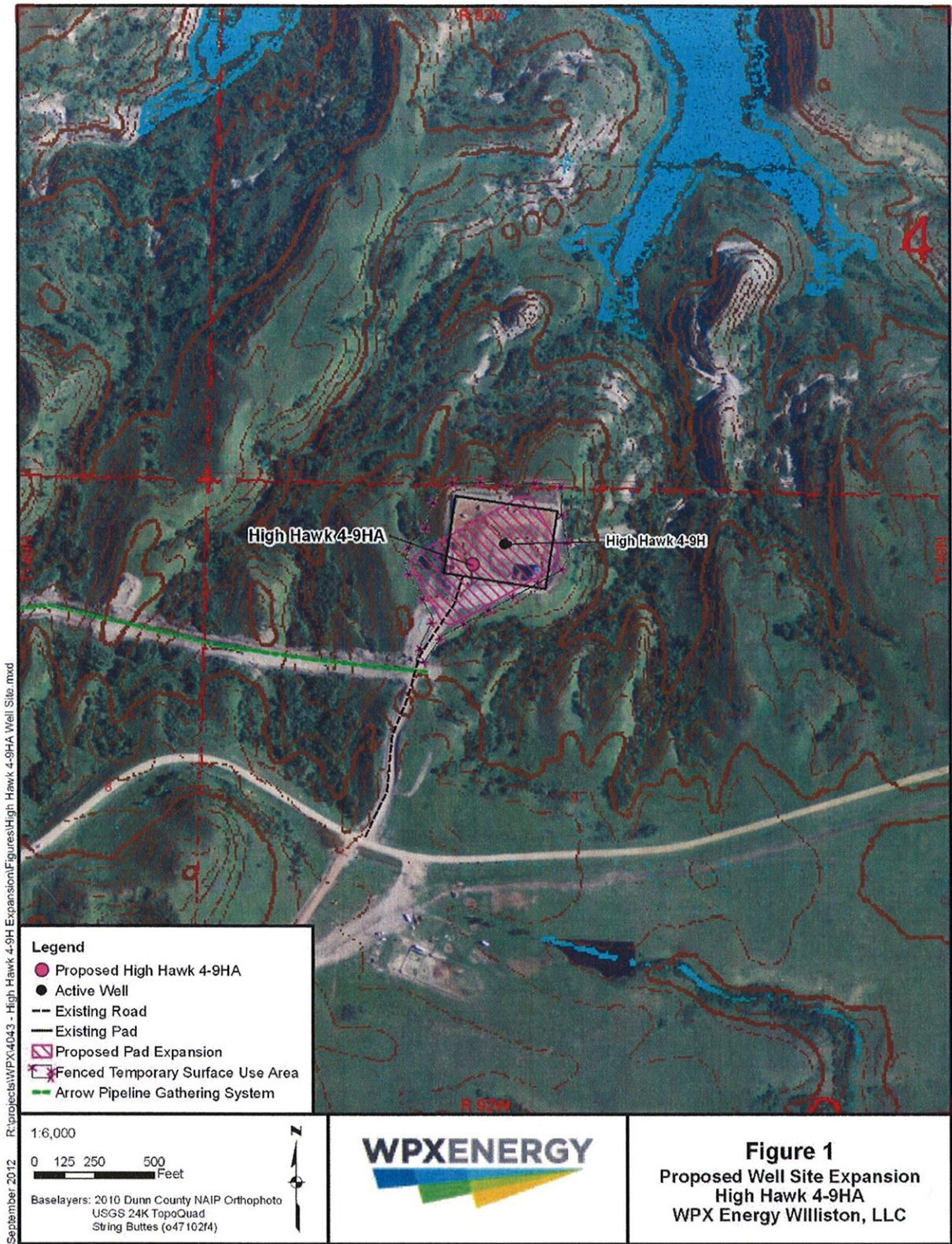


Figure 1. High Hawk 4-9H well site expansion overview.



Figure 2. Proposed well pad expansion for the High Hawk 4-9H well site. Picture taken from access road facing north across a portion of the proposed expansion west into treed drainage.



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

JUN 27 2012

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

Dear Mr. Crows Breast:

We have considered the potential effects on cultural resources of three oil well pad expansion projects in Dunn and Mountrail Counties, North Dakota. Approximately 147.5 acres were intensively inventoried using a pedestrian methodology. Potential surface disturbances are not expected to exceed the areas depicted in the enclosed reports. 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, although one previously recorded site (32DU1155) could not be relocated and has likely been destroyed by previous road construction. 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 these undertakings. Catalogued as **BIA Case Number AAO-2086/FB/12**, the proposed undertakings, locations, and project dimensions are described in the following reports:

Green, Debra K.

(2012) WPX Energy's High Hawk 4-9H (#212) Well Pad: A Class III Cultural Resource Inventory, Ft. Berthold Reservation, Dunn County, North Dakota. Metcalf Archaeological Consultants, Inc. for WPX Energy, Minot, ND.

Livers, Michael

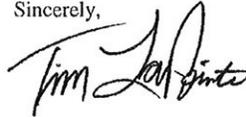
(2012a) WPX Energy's Alfred Old Dog (#202) Well Pad: A Class III Cultural Resource Inventory, Ft. Berthold Reservation, Dunn County, North Dakota. Metcalf Archaeological Consultants, Inc. for WPX Energy, Minot, ND.

(2012b) WPX Energy's Mandan 13-14H (#127) Well Pad: A Class III Cultural Resource Inventory, Ft. Berthold Reservation, Mountrail County, North Dakota. Metcalf Archaeological Consultants, Inc. for WPX Energy, Minot, ND.

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

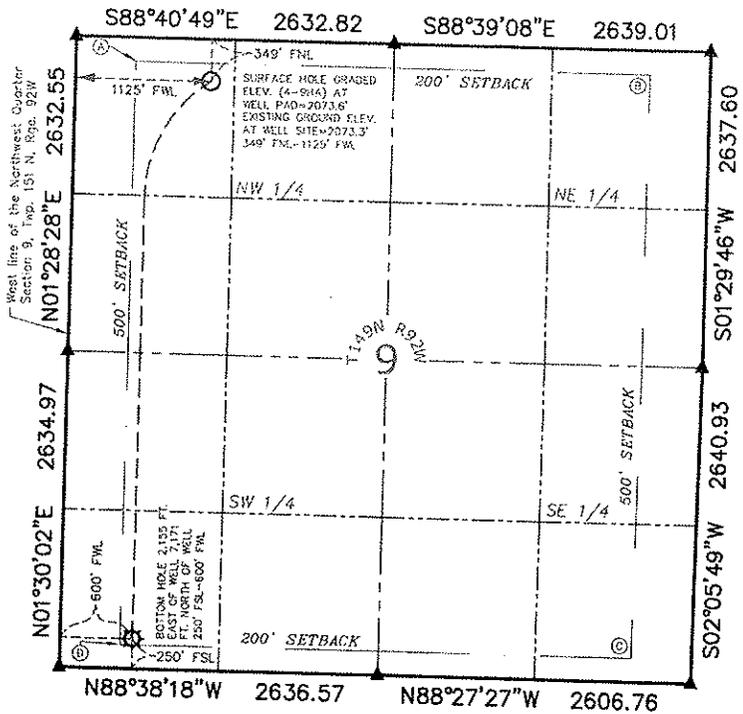
Regional Director

Enclosures

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

APPENDIX A

Plats, Drawings, and Diagrams for the
High Hawk 4-9H Well Pad Expansion



WPX ENERGY WILLISTON, LLC
HIGH HAWK 4-9HA
(SURFACE HOLE LOCATION)

WPX ENERGY WILLISTON, LLC
HIGH HAWK 4-9HA
(BOTTOM HOLE LOCATION)

- 1) **NAD 83 (4-9HA)**
 Lot. 47°44'43.29"
 Long. 102°28'01.20"
 Lot. 47.745359°
 Long. 102.467001°
- 2) **NAD 27 (4-9HA)**
 Lot. 47°44'43.26"
 Long. 102°27'59.54"
 Lot. 47.745359°
 Long. 102.466538°
- 3) **NAD 27 (4-9HA)**
 UTM ZONE 13N
 N: 17358519.658
 E: 2263489.850

- 1) **NAD 83 (4-9HA)**
 Lot. 47°43'57.21"
 Long. 102°28'08.92"
 Lot. 47.732557°
 Long. 102.469143°
- 2) **NAD 27 (4-9HA)**
 Lot. 47°43'57.17"
 Long. 102°28'07.25"
 Lot. 47.732547°
 Long. 102.468681°
- 3) **NAD 27 (4-9HA)**
 UTM ZONE 13N
 N: 17353834.774
 E: 2263115.731

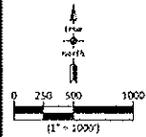
I, Kurt M. Kisch, Professional Land Surveyor, North Dakota RLS# 4597 hereby certify that I and or personnel under my direct supervision made a survey on the 6th day of June, 2012 for the Surface Hole Location and Elevation of WPX ENERGY WILLISTON, LLC, High Hawk Expansion 4-9HA being located within the NW 1/4 of the NW 1/4, of Section 9, Township 149 North, Range 92 West and the Bottom Hole Location being located within the SW 1/4 of the SW 1/4 of Section 9, Township 149 North, Range 92 West, both being of the 5th P.M., Dunn County, North Dakota.

Notes:
 1. All bearings shown hereon are based on the west line of the Northwest Quarter of Section 9, Township 149N, Range 92W, having a bearing of N01°28'28"W from the Northwest Corner of Section 9, Township 149N, Range 92W, using GPS observations, occupying a CMI control point and having the location and elevation derived from an OPUS Solution.

- 2. Vertical Datum used is of NAVD 88.
- 3. The OPUS Solution control point used is located 4059.97 feet on a bearing of N89°28'28"W from the Northwest Corner of Section 9, Township 149N, Range 92W.
- 4. Distances shown hereon are ground distances using a combined scale factor of 1.000153934.

DRILL AREA SETBACK COORDINATES

A) NAD 83	B) NAD 83	C) NAD 83	D) NAD 83
UTM ZONE 13N	UTM ZONE 13N	UTM ZONE 13N	UTM ZONE 13N
N: 17359363.745	N: 17359513.211	N: 17354638.574	N: 17354498.780
E: 2262726.783	E: 2266995.498	E: 2267126.704	E: 2262884.052
A) NAD 27	B) NAD 27	C) NAD 27	D) NAD 27
UTM ZONE 13N	UTM ZONE 13N	UTM ZONE 13N	UTM ZONE 13N
N: 17358646.272	N: 17358795.808	N: 17353921.209	N: 17353781.344
E: 2262860.151	E: 2267128.773	E: 2267259.953	E: 2263017.387



- LEGEND**
- ▲ Found Monument
 - ⊙ Bottom Hole Location
 - Surface Hole Location



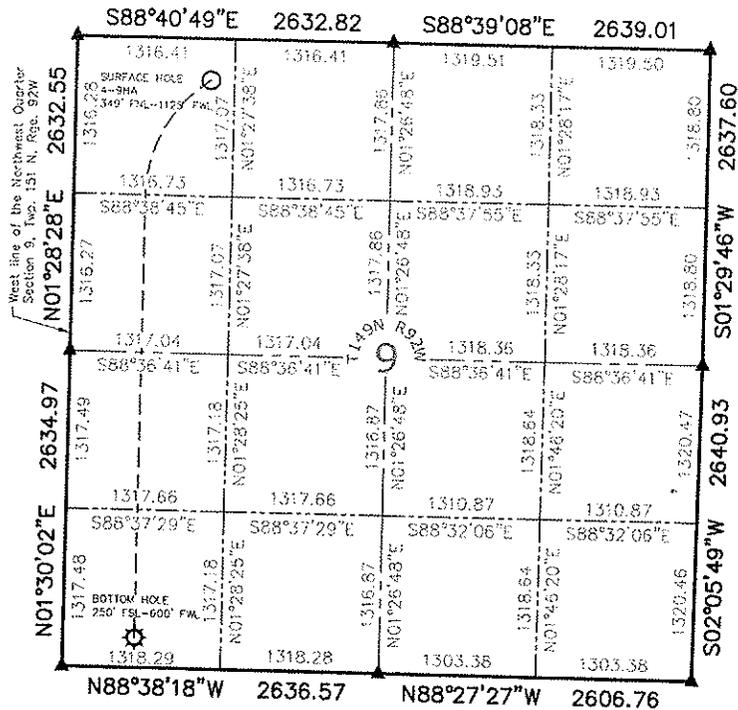
Kurt M. Kisch
 Kurt M. Kisch Registered Land Surveyor
 Registration No. 4597
 State of North Dakota

Carlson McCain
 ENVIRONMENTAL - ENGINEERING - SURVEYING
 2718 Gateway Avenue, #101
 Bismarck, ND 58503
 Phone: 701-255-1475
 www.carlsonmccain.com

PAD LOCATION	
THE N 1/2 OF THE NW 1/4 OF SECTION 9, TOWNSHIP 149N, RANGE 92W, DUNN COUNTY, NORTH DAKOTA	
JOB NO:	4015 [DATE: 7/24/12]
REVISIONS:	

WELL LOCATION PLAT
HIGH HAWK EXPANSION 4-9HA
 ~ WPX ENERGY WILLISTON, LLC ~

F:\3024\3041 - 4005\3045 - High Hawk 4-9 WPX Pad # 212\CA00\Survey\Pad\Well Location Plat 4-9HA.dwg 7/24/2012 9:22:19 AM CDT



WPX ENERGY WILLISTON, LLC
HIGH HAWK 4-9HA
(SURFACE HOLE LOCATION)

- 1) **NAD 83 (4-9HA)**
 Lot. 47°44'43.29"
 Long. 102°28'01.20"
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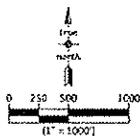
WPX ENERGY WILLISTON, LLC
HIGH HAWK 4-9HA
(BOTTOM HOLE LOCATION)

- 1) **NAD 83 (4-9HA)**
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 Lot. 47.732547°
 Long. 102.468681°
- 3) **NAD 27 (4-9HA)**
 UTM ZONE 13N
 N: 17353834.774
 E: 2263115.731

I, Kurt M. Kisch, Professional Land Surveyor, North Dakota RLS# 4597 hereby certify that I and or personnel under my direct supervision made a survey on the 6th day of June, 2012 for the Surface Hole Location and Elevation of WPX ENERGY WILLISTON, LLC, High Hawk Expansion 4-9HA being located within the NW 1/4 of the NW 1/4, of Section 9, Township 149 North, Range 92 West and the Bottom Hole Location being located within the SW 1/4 of the SW 1/4 of Section 9, Township 149 North, Range 92 West, both being of the 5th P.M., Dunn County, North Dakota.

Notes:

- 1. All bearings shown hereon are based on the west line of the Northwest Quarter of Section 9, Township 149N, Range 92W, having a bearing of N01°28'28"W using GPS observations, occupying a CMI control point and having the location and elevation derived from an OPUS Solution.
- 2. Vertical Datum used is of NAVD 88.
- 3. The OPUS Solution control point used is located 4059.97 feet on a bearing of N89°28'28"W from the Northwest Corner of Section 9, Township 149N, Range 92W.
- 4. Distances shown hereon are ground distances using a combined scale factor of 1.000153934.



LEGEND

- ▲ Found Monument
- ⊙ Bottom Hole Location
- Surface Hole Location



Kurt M. Kisch
 Kurt M. Kisch Registered Land Surveyor
 Registration No. 4597
 State of North Dakota

Carlson McCain
 ENVIRONMENTAL - ENGINEERING - SURVEYING
 2718 Gateway Avenue, #101
 Bismarck, ND 58503
 Phone: 701-255-1475
 www.carlsonmccain.com

PAD LOCATION	
THE N 1/2 OF THE NW 1/4 OF SECTION 9, TOWNSHIP 149N, RANGE 92W, DUNN COUNTY, NORTH DAKOTA	
JOB NO:	4845 [DATE: 7/24/12]
REVISIONS:	

HORIZONTAL SECTION PLAT
HIGH HAWK EXPANSION 4-9HA
 ~ WPX ENERGY WILLISTON, LLC ~

F:\jobs\4041 - 4050\4045 - High Hawk 4-9 WPX Pad 4 212\CADD\Survey\Pad\Horizontal Section Plat 4-9HA.dwg 7/24/2012 9:18:00 AM COT

LOCATION COORDINATE SUMMARY

HIGH HAWK EXPANSION 4-9HA

~WPX ENERGY WILLISTON, LLC~

	Section	Township	Range
4-9HA PAD (SHL)	9	149 N	92 W
4-9HA PAD (BHL)	9	149 N	92 W

Geographic NAD 83				
	Deg. Min. Decimal Seconds		Decimal Degrees	
	Latitude	Longitude	Latitude	Longitude
4-9HA PAD (SHL)	47°44'43.29"	102°28'01.20"	47.745359°	102.467001°
4-9HA PAD (BHL)	47°43'57.21"	102°28'08.92"	47.732557°	102.469143°

Geographic NAD 27				
	Deg. Min. Decimal Seconds		Decimal Degrees	
	Latitude	Longitude	Latitude	Longitude
4-9HA PAD (SHL)	47°44'43.26"	102°27'59.54"	47.745349°	102.466538°
4-9HA PAD (BHL)	47°43'57.17"	102°28'07.25"	47.732547°	102.468681°

UTM Zone 13 NAD 27				
	Northing	Easting	Footage	
4-9HA PAD (SHL)	17358519.658	2263489.85	1125' FWL	349' FNL
4-9HA PAD (BHL)	17353834.774	2263115.731	600' FWL	250' FSL

	UTM Zone 13N NAD 83		UTM Zone 13N NAD 27	
	Drill Area Setback Coordinates		Drill Area Setback Coordinates	
	Northing	Easting	Northing	Easting
A	17359363.745	2262726.783	17358646.272	2262860.151
B	17359513.211	2266995.498	17358795.808	2267128.773
C	17354638.574	2267126.704	17353921.209	2267259.953
D	17354498.780	2262884.052	17353781.344	2263017.387

LOCATION COORDINATE SUMMARY

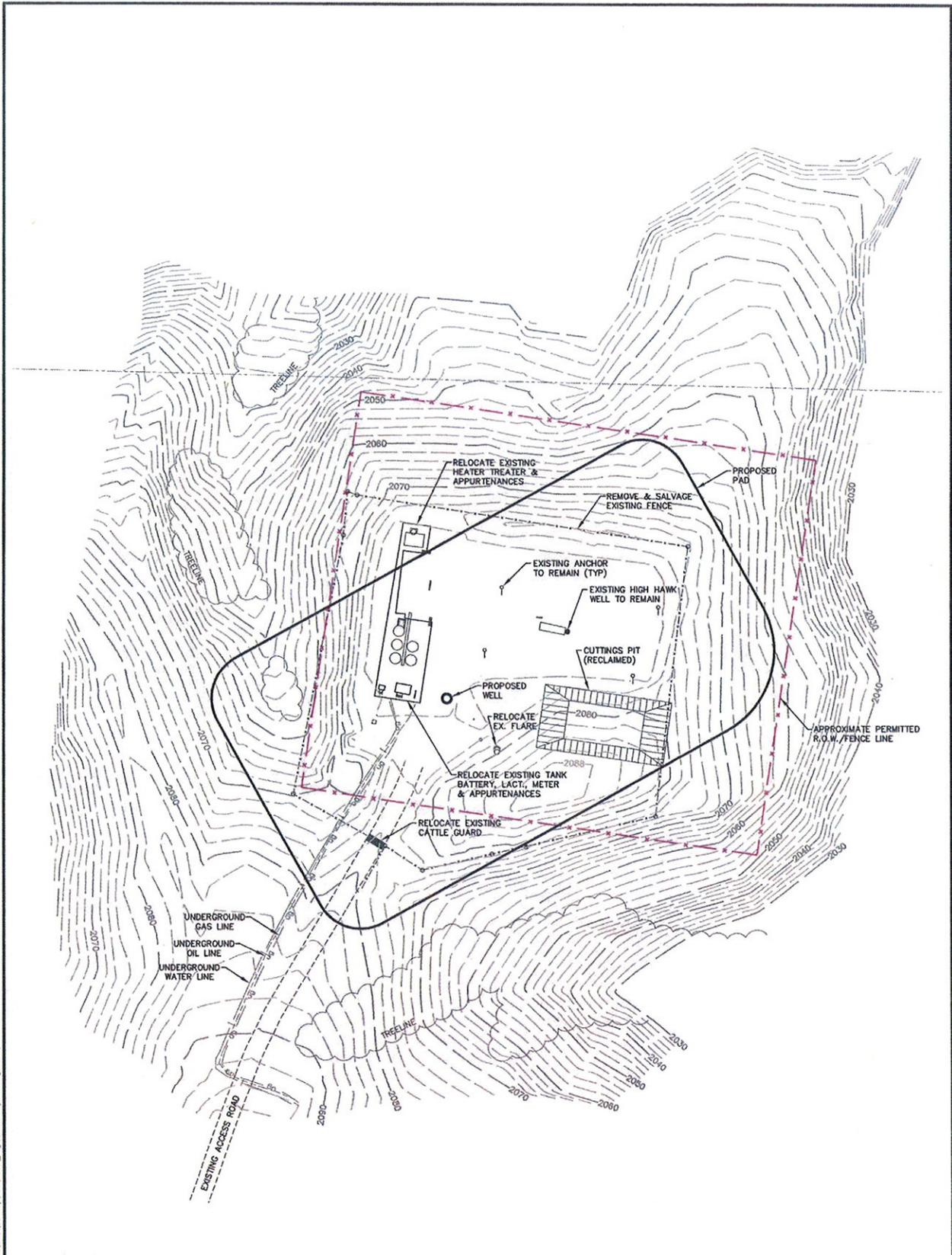
HIGH HAWK EXPANSION 4-9HA

DRILL UNIT SECTION CORNERS

~WPX ENERGY WILLISTON, LLC~

Section	Township	Range
9	149 N	92 W

	UTM Zone 13N NAD 83		UTM Zone 13N NAD 27	
	Drill Area Section Coordinates		Drill Area Section Coordinates	
	Northing	Easting	Northing	Easting
NW	17359546.037	2262220.539	17358828.554	2262353.919
NE	17359730.504	2267488.813	17359013.107	2267622.078
SE	17354454.267	2267630.864	17353736.913	2267764.102
SW	17354281.615	2262390.720	17353564.172	2262524.064



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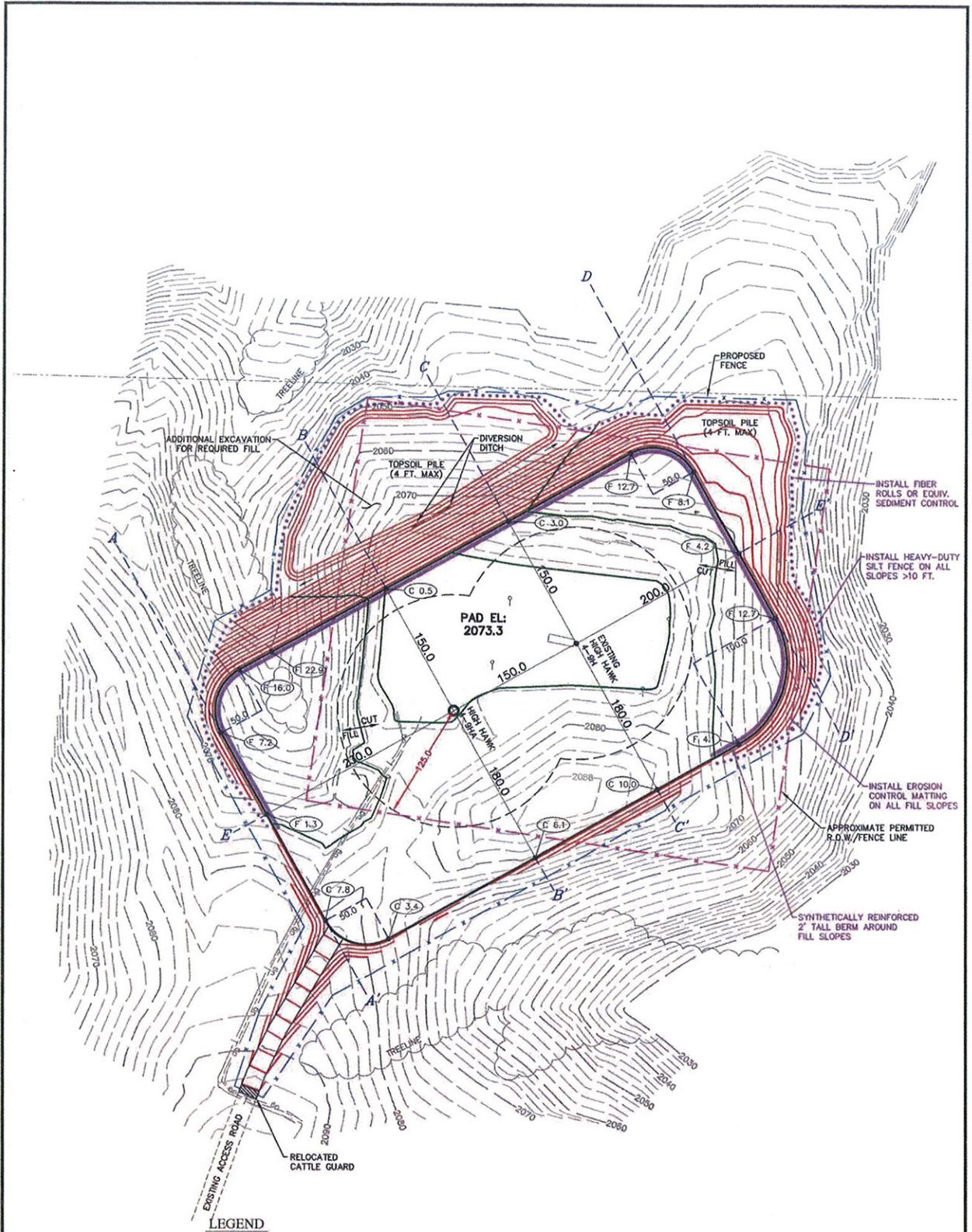
LEGEND

- Section Line
- Existing 2' Contour
- Existing 10' Contour
- - - Existing Fence
- - - - - Approx. Permitted ROW/Fence
- Proposed Well

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PAD LOCATION	
THE N 1/2 OF THE NW 1/4 OF SECTION 9, TOWNSHIP 149N, RANGE 92W, DURN COUNTY, NORTH DAKOTA	
JOB NO: 4045	DATE: 7/24/12
REVISIONS:	

**EXISTING CONDITIONS/REMOVALS
HIGH HAWK EXPANSION 4-9HA
~ WPX ENERGY WILLISTON, LLC ~**

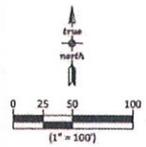


LEGEND

- Section Line
- Existing 2' Contour
- Existing 10' Contour
- - - Existing Fence
- - - Approx. Permitted ROW/Fence
- Proposed Pad
- Proposed Fence
- Proposed 2' Contour
- Proposed 10' Contour
- Proposed Cut/Fill Break
- Proposed Fiber Rolls
- Proposed Cut/Fill (in feet)
- Proposed Well

COMPACTION NOTES

All fill/embankment areas shall be compacted to at least 95% of the Standard Proctor Dry Density as determined by ASTM D698. In areas where production equipment will be placed on fill/embankment areas, compaction within 3 vertical feet of finished grade shall be 100% of the Standard Proctor Dry Density.



SITE DATA	
HIGH HAWK EXPANSION 4-9HA	
PWL: 1125'	FNL: 349'

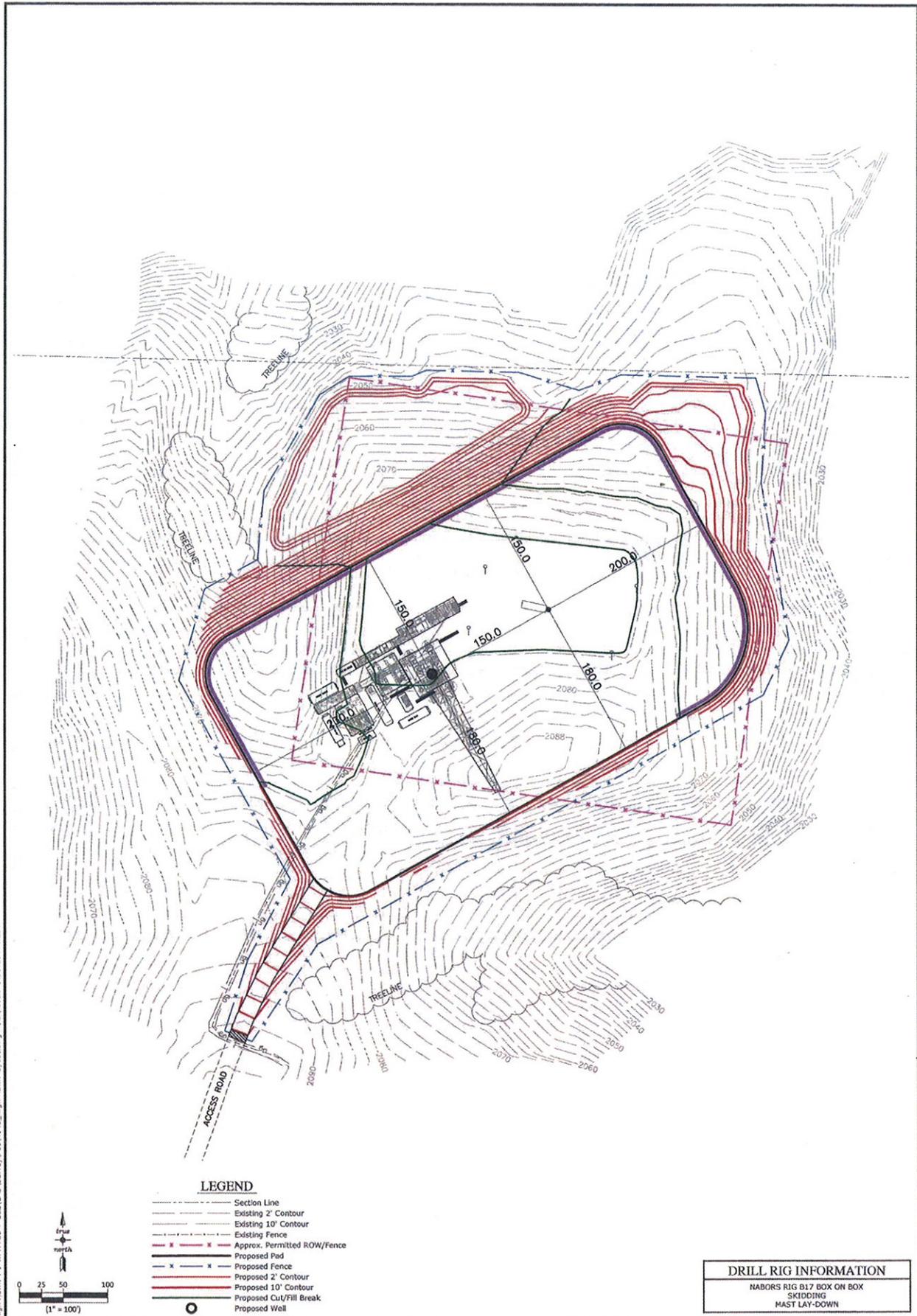
EARTHWORK QUANTITIES	
CUT SLOPE:	2:1
FILL SLOPE:	2:1
TOTAL CUT:	30,800 C.Y.
TOTAL FILL + 25% SHRINK:	24,500 C.Y.
TOPSOIL STRIPPING AT 8":	6,300 C.Y.
SPOIL:	0 C.Y.
DISTURBED AREA:	6.50 AC.
FENCED AREA:	7.17 AC.

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PAD LOCATION	
THE N 1/2 OF THE NW 1/4 OF SECTION 9, TOWNSHIP 149N, RANGE 92W, DUNN COUNTY, NORTH DAKOTA	
JOB NO:	4045
DATE:	7/24/12
REVISIONS:	

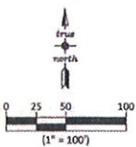
PAD LAYOUT
HIGH HAWK EXPANSION 4-9HA
 ~ WPX ENERGY WILLISTON, LLC ~

F:\posh\4045 - High Hawk 4-9 WPX Pad.dwg - 2127 CAD\Survey\posh\4045_High Hawk\wpx\dwg\7/24/12 9:32:20 AM CDT



LEGEND

- Section Line
- - - Existing 2' Contour
- - - Existing 10' Contour
- - - Existing Fence
- - - x - - - Approx. Permitted ROW/Fence
- - - Proposed Pad
- - - x - - - Proposed Fence
- - - Proposed 2' Contour
- - - Proposed 10' Contour
- - - Proposed Cut/Fill Break
- Proposed Well



DRILL RIG INFORMATION
 NABORS RIG B17 BOX ON BOX
 SKIDDING
 MAST LAY-DOWN

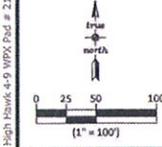
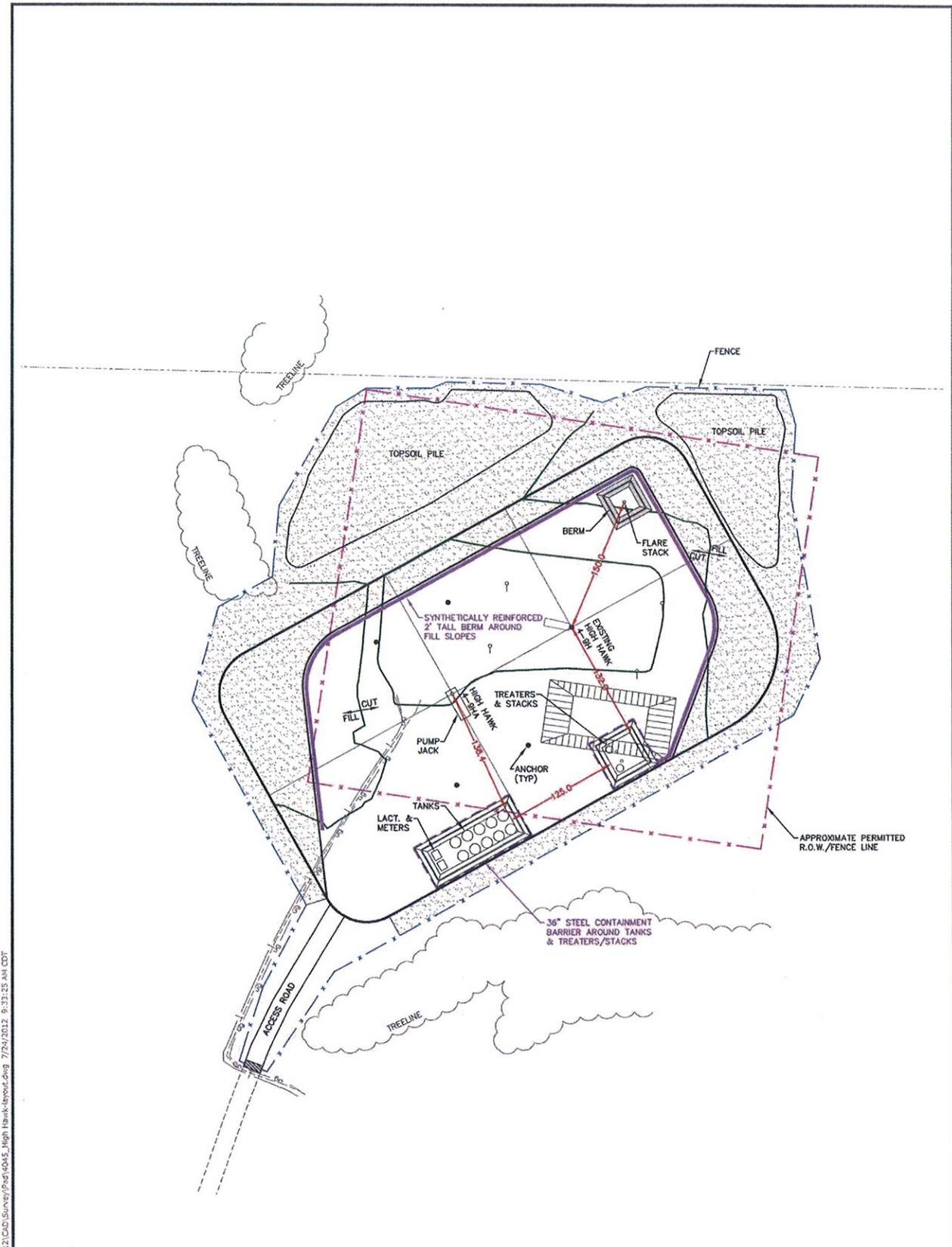
PAD LOCATION

THE N 1/2 OF THE NW 1/4 OF
 SECTION 9, TOWNSHIP 149N, RANGE 92W,
 DUNN COUNTY, NORTH DAKOTA

JOB NO: 4045 | DATE: 7/24/12
 REVISIONS:

**DRILL RIG LAYOUT
 HIGH HAWK EXPANSION 4-9HA
 ~ WPX ENERGY WILLISTON, LLC ~**

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LEGEND

- Section Line
- - - Existing Fence
- - - - - Approx. Permitted ROW/Fence
- Proposed Pad
- - - - - Proposed Fence
- - - - - Proposed Cut/Fill Break
- o Proposed Well

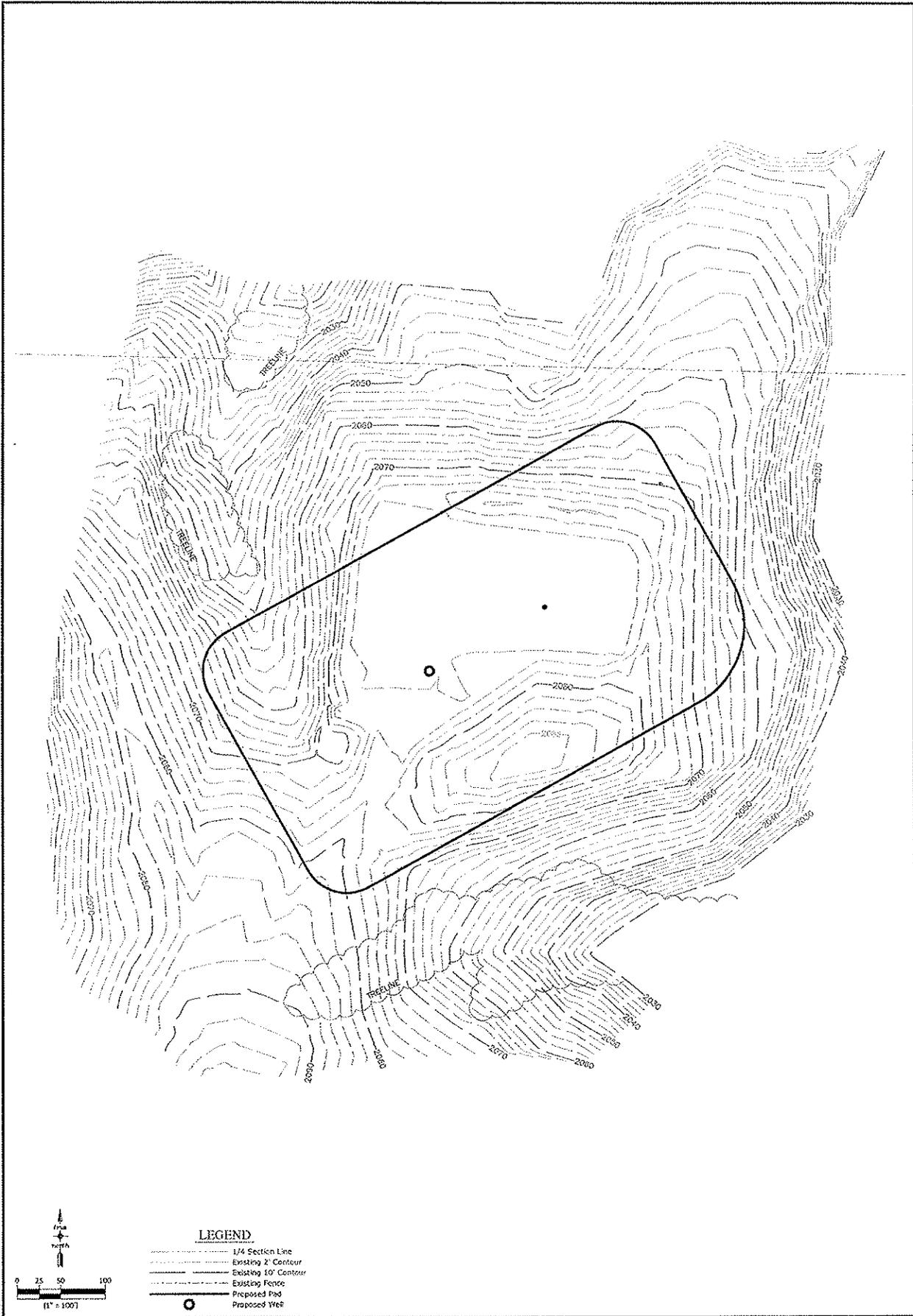
INTERIM RECLAMATION DATA	
FENCED AREA:	7.17 AC.
RECLAIMED AREA:	3.69 AC.
PAD AREA:	3.48 AC.

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PAD LOCATION	
THE N 1/2 OF THE NW 1/4 OF SECTION 9, TOWNSHIP 149N, RANGE 92W, DUNN COUNTY, NORTH DAKOTA	
JOB NO: 4045	DATE: 7/24/12
REVISIONS:	

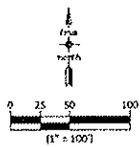
**PRODUCTION FACILITY LAYOUT
 HIGH HAWK EXPANSION 4-9HA
 ~ WPX ENERGY WILLISTON, LLC ~**

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LEGEND

- 1/4 Section Line
- Existing 2' Contour
- Existing 10' Contour
- Existing Fence
- Proposed Pad
- Proposed Well

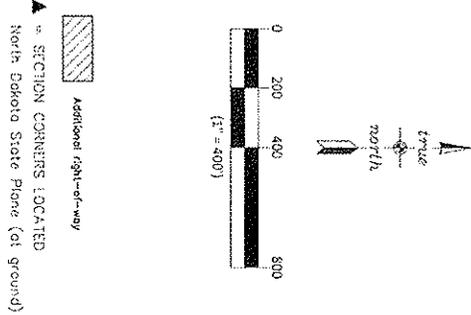


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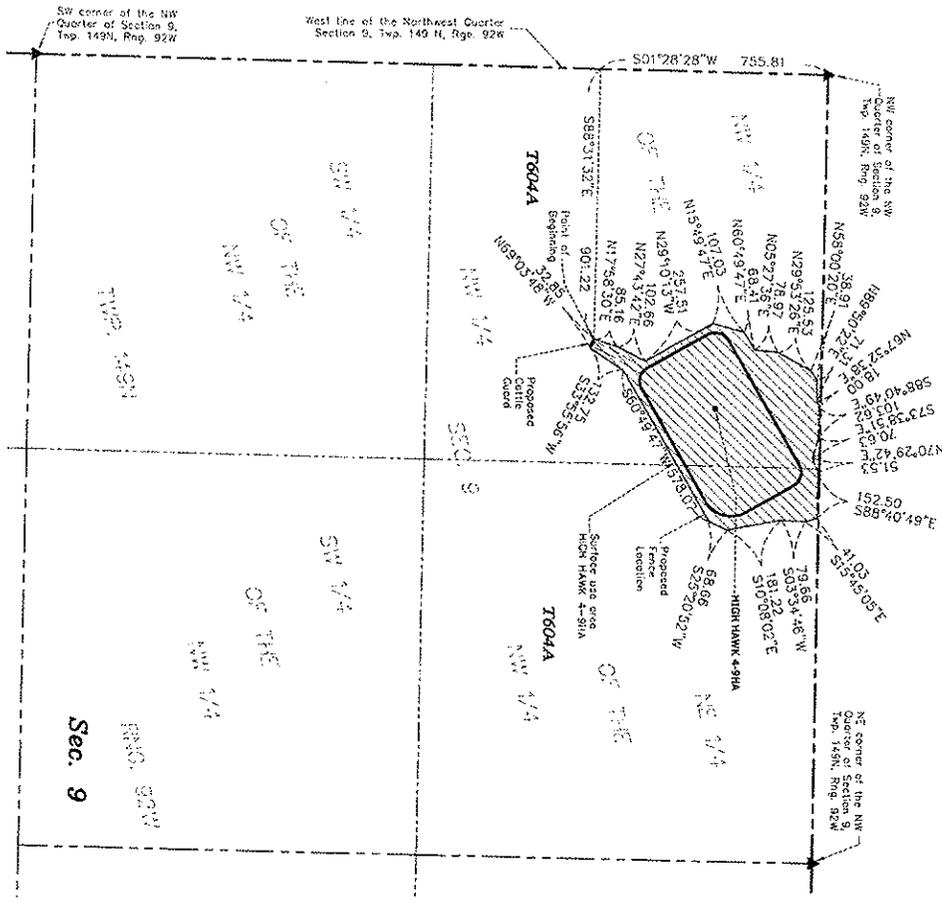
PAD LOCATION	
THE N 1/2 OF THE NW 1/4 OF SECTION 9, TOWNSHIP 149N, RANGE 92W, DUFFIN COUNTY, NORTH DAKOTA	
JOB NO:	4645
DATE:	7/24/12
REVISIONS:	

**FINAL RECLAMATION PLAN
HIGH HAWK EXPANSION 4-9HA
~ WPX ENERGY WILLISTON, LLC ~**

C:\Users\jcc21\Documents\4645\4645.dwg Plot of 21/07/2012 09:25:25 AM User: jcc21 21/07/2012 09:25:25 AM User: jcc21



- SECTION CORNERS LOCATED**
North Dakota State Plane (G1 ground)
1. All bearings shown herein are based on the west line of the Township 149N, Range 92W, being a bearing of S01°28'28"W using GPS observations, occupying a G11 control point and having the location and elevation derived from an GPS Station.
 2. Vertical Datum used is NAD83.
 3. The GPS Station control point used is located 4055.97 feet on a bearing of N89°28'28"W from the Northwest Corner of Section 9, Township 149N, Range 92W.
 4. Distances shown herein are ground distances using a combined GPS receiver of 1000358336.
- PROJECT NO. 4545
FIELD CREW: RYAN CARLSON
DATE: 5/29/12
REVISIONS:
TRACE: HIGH HAWK EXPANSION 4-9HA

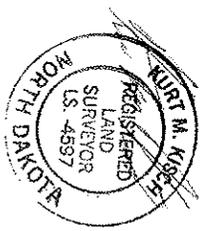


Pad/Road ROW	7.17 acres
Tract T604A	7.17 acres
Pad ROW (fenced)	7.17 acres
Total	7.17 acres

Total Disturbance Summary	7.17 acres
Tract T604A	7.17 acres

Carlson McCain
ENGINEERS AND SURVEYORS
2213 GARFIELD AVENUE - 4101
BISMARCK, ND 58503
PHONE: 701-251-1475
WWW.CARLSONMCCAIN.COM

[Signature]
Kurt M. Kirsch, Registered Land Surveyor
Registration No. 4597
State of North Dakota



PAD LOCATION	
SECTION: THE N 1/2 OF THE NW 1/4 OF SECTION 9, TOWNSHIP 149N, RANGE 92W, COUNTY DAKOTA, NORTH DAKOTA	DATE: 7/24/12
FOR JOB: 40604545	DATE: 7/24/12

RIGHT-OF-WAY PLAT
HIGH HAWK EXPANSION 4-9HA
~ WPX ENERGY WILLISTON, LLC ~

CERTIFICATE
I 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.
Dated: 7/24/12

Pad and Road RIGHT-OF-WAY DESCRIPTION

A surface use easement lying over, under and across all those parts of the north half of the Northwest Quarter of Section 9, said easement to be described as follows:

Commencing at the Northwest corner of the Northwest Quarter of said Section 9; thence on an assumed bearing of South 01 degree 28 minutes 28 seconds West, along the west line of the Northwest Quarter of said Section 9, 755.81 feet; thence South 88 degrees 31 minutes 32 seconds East, 501.22 feet to the point of beginning of the easement to be described; thence North 17 degrees 58 minutes 30 seconds East, 85.16 feet;

thence North 27 degrees 43 minutes 42 seconds East, 102.66 feet; thence North 29 degrees 10 minutes 13 seconds West, 257.51 feet; thence North 15 degrees 49 minutes 47 seconds East, 107.03 feet; thence North 05 degrees 49 minutes 47 seconds East, 68.41 feet; thence North 05 degrees 27 minutes 35 seconds East, 78.97 feet; thence North 29 degrees 53 minutes 26 seconds East, 125.53 feet; thence North 29 degrees 00 minutes 20 seconds East, 38.91 feet; thence North 89 degrees 50 minutes 22 seconds East, 71.31 feet; thence North 67 degrees 32 minutes 38 seconds East, 18.00 feet; thence South 88 degrees 40 minutes 49 seconds East, 103.62 feet; thence South 75 degrees 38 minutes 40 minutes 49 seconds East, 70.63 feet; thence South 29 degrees 29 minutes 42 seconds East, 51.53 feet; thence South 88 degrees 40 minutes 49 seconds East, 41.03 feet; thence South 15 degrees 45 minutes 46 seconds West, 79.66 feet; thence South 10 degrees 03 minutes 34 minutes 02 seconds East, 181.22 feet; thence South 25 degrees 20 minutes 52 seconds West, 68.66 feet; thence South 60 degrees 49 minutes 47 seconds West, 578.07 feet; thence South 33 degrees 55 minutes 56 seconds West; thence North 69 degrees 03 minutes 48 seconds West, 32.85 feet to the point of beginning.

WPX ENERGY WILLISTON, LLC
HIGH HAWK EXPANSION 4-9HA

Pad and Road RIGHT-OF-WAY

TOTAL PAD AND ROAD RIGHT-OF-WAY ON TRIBAL LAND

Total Pad RIGHT OF WAY contains 7.17 acres more or less

TOTAL DISTURBANCE ON TRIBAL LANDS

Total combined Pad Right-of-Way contains 7.17 acres more or less.

SURVEYOR'S AFFIDAVIT

STATE OF MINNESOTA)
COUNTY OF ANOKA) SS

Kurt M. Kisch, Being first duly sworn deposes and states that he is the Registered Land Surveyor for WPX ENERGY WILLISTON, LLC, That these surveys were made by him (or under his direct supervision): That he has examined the field notes of the surveys of the 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, 7.17 acres in area, beginning and ending as shown on this map is accurately represented.



Kurt M. Kisch

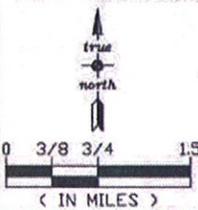
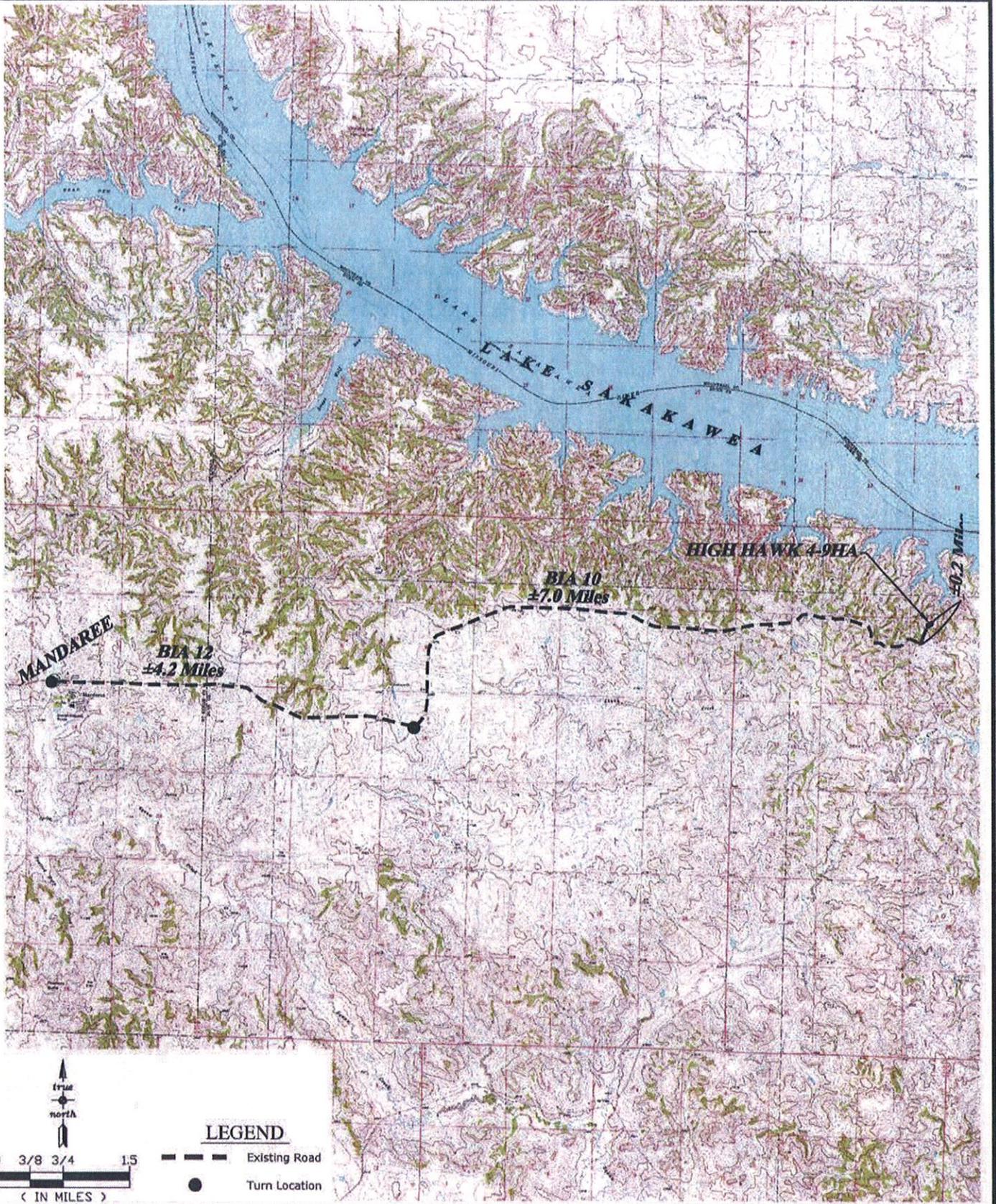
Kurt M. Kisch
REGISTERED LAND SURVEYOR
REGISTRATION NO. L.S. -4597
STATE OF NORTH DAKOTA

APPLICANT'S CERTIFICATE

I, _____, Do hereby certify that I am the agent for WPX ENERGY WILLISTON, LLC, hereinafter designated the applicant; that Kurt M. Kisch 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 RIGHT-OF-WAY, 7.17 acres in area, that said RIGHT-OF-WAY are 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 Interior or his duly appointed 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

TITLE



LEGEND

- Existing Road
- Turn Location



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PAD LOCATION

THE N 1/2 OF THE NW 1/4 OF
 SECTION 9, TOWNSHIP 149N, RANGE 92W,
 DUNN COUNTY, NORTH DAKOTA

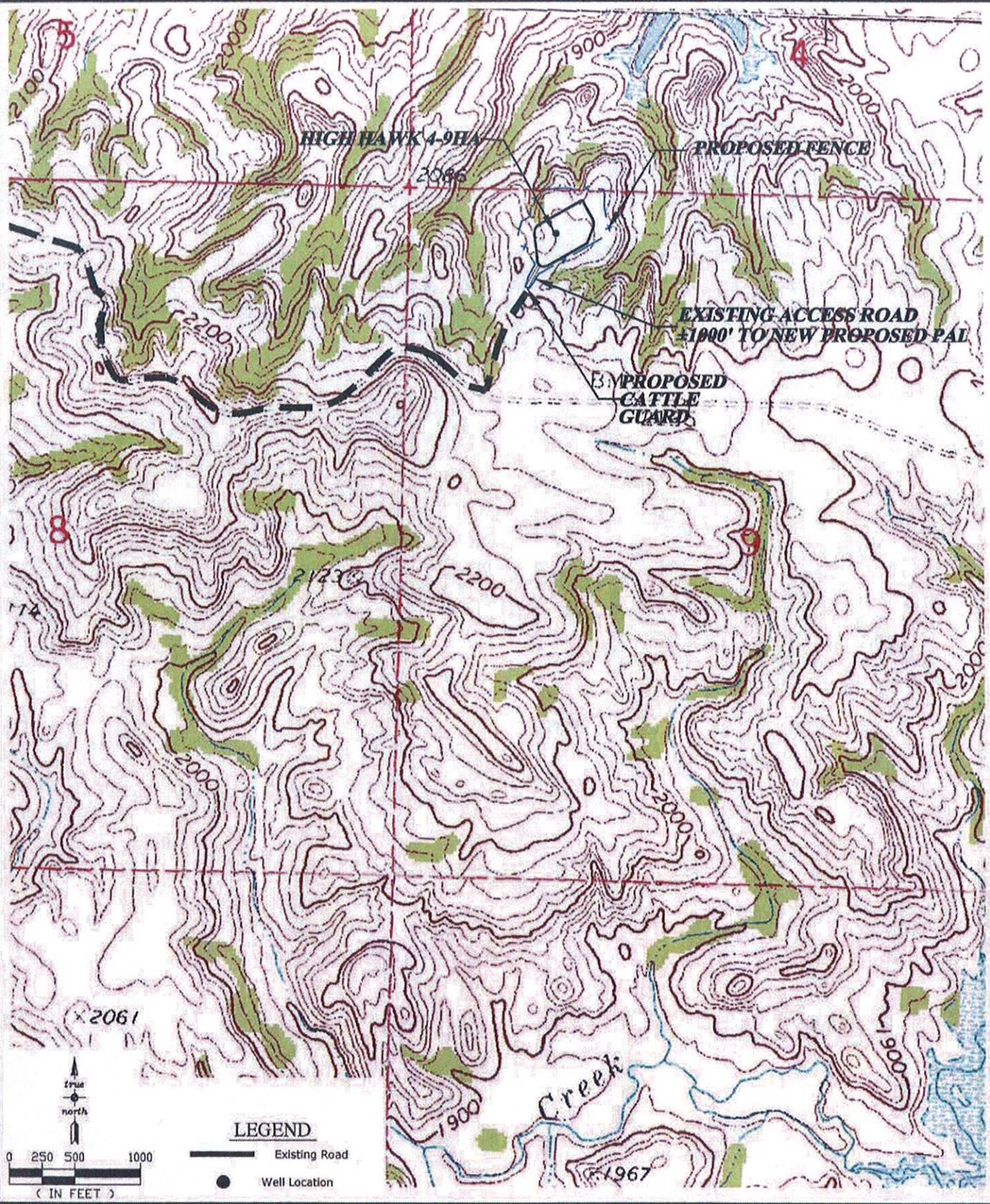
JOB NO: 4045 DATE: 7/24/12
 REVISIONS:

**EMERGENCY ROUTE AREA MAP
 HIGH HAWK EXPANSION 4-9HA
 ~ WPX ENERGY WILLISTON, LLC ~**

TOPO A

SHEET 12 of 16

F:\Jobs\4041 - 4060\4045 - High Hawk 4-9 WPX Pad # 212\CAD\Survey\Pad\B - Access Road Map.dwg 7/24/2012 9:53:19 AM CDT



LEGEND

-  Existing Road
-  Well Location

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PAD LOCATION	
THE N 1/2 OF THE NW 1/4 OF SECTION 9, TOWNSHIP 149N, RANGE 92W, DUNN COUNTY, NORTH DAKOTA	
JOB NO: 4045	DATE: 7/24/12
REVISIONS:	

ACCESS ROAD MAP
HIGH HAWK EXPANSION 4-9HA
 ~ WPX ENERGY WILLISTON, LLC ~

TOPO B SHEET 13 of 16

F:\Jobs\4041 - 4060\4045 - High Hawk 4-9 WPX Pad # 2112\CAD\Survey\Pad\C_H2S Awareness Perimeter.dwg 7/24/2012 9:54:21 AM CDT



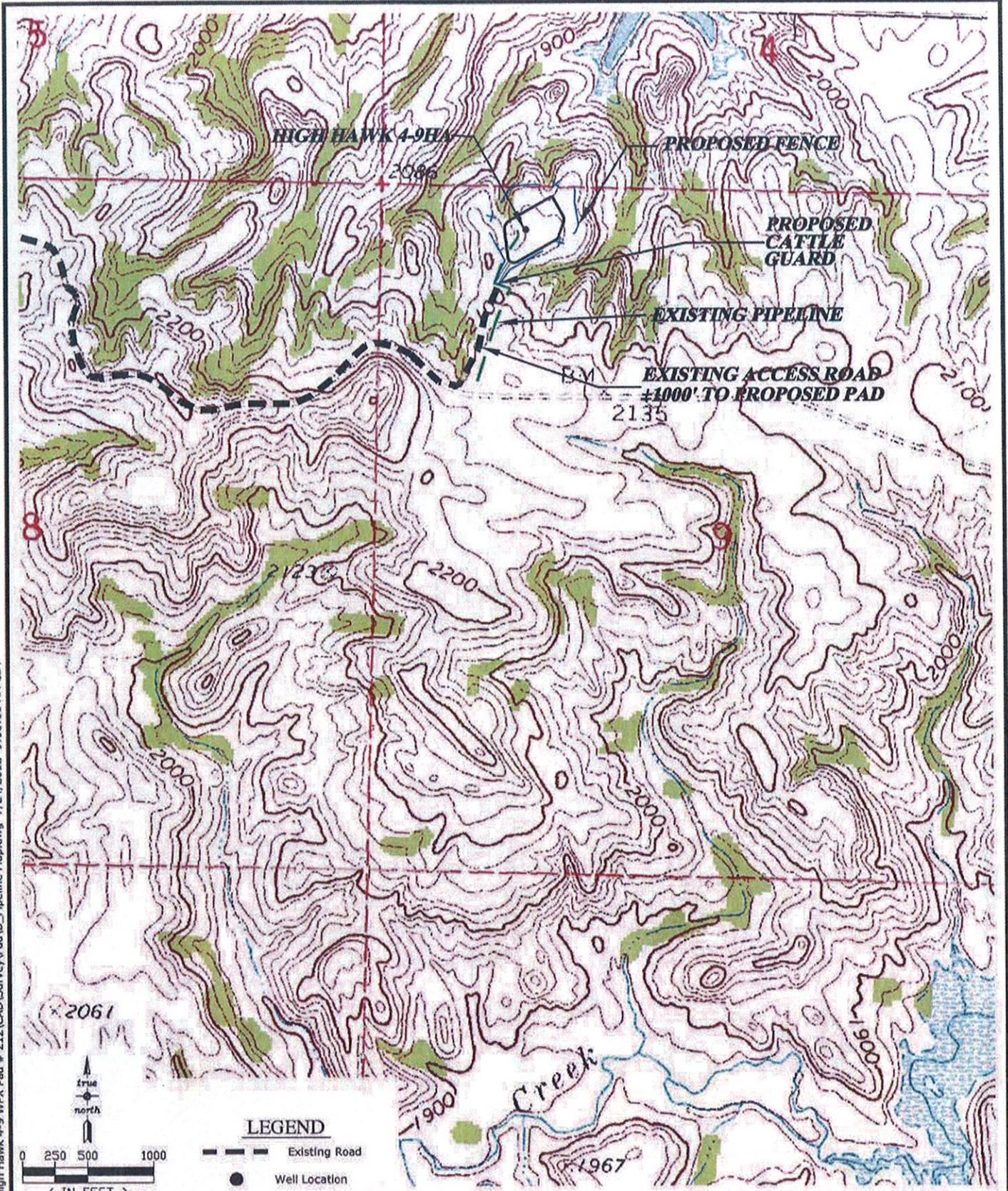
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 Bismarck, ND 58503
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PAD LOCATION	
THE N 1/2 OF THE NW 1/4 OF SECTION 9, TOWNSHIP 149N, RANGE 92W, DUNN COUNTY, NORTH DAKOTA	
JOB NO:	4045 DATE: 7/24/12
REVISIONS:	

**1 MILE RADIUS
H2S AWARENESS PERIMETER
HIGH HAWK EXPANSION 4-9HA
~ WPX ENERGY WILLISTON, LLC ~**

TOPO C SHEET 14 of 16

F:\Jobs\4041 - 4060\4045 - High Hawk 4-9 WPX Pad - 2112\CAD\Survey\PadID_Pipeline Map.dwg 7/24/2012 9:58:01 AM CDT



LEGEND

-  Existing Road
-  Well Location



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PAD LOCATION

THE N 1/2 OF THE NW 1/4 OF
 SECTION 9, TOWNSHIP 149N, RANGE 92W,
 DUNN COUNTY, NORTH DAKOTA

JOB NO: 4045 DATE: 7/24/12
 REVISIONS:

PIPELINE MAP
HIGH HAWK EXPANSION 4-9HA
 ~ WPX ENERGY WILLISTON, LLC ~

TOPO D

SHEET 15 of 16

DRIVING DIRECTIONS

Proceed easterly from Mandaree, North Dakota along BIA 12. Follow this route for approximately 4.2 miles to the intersection of BIA 10. Turn left onto BIA 10 and continue northerly and then easterly for approximately 7.0 miles to the access road to the HIGH HAWK 4-9HA pad site. Turn left onto access road and continue northerly approximately 0.2 miles to the existing well location.

Total distance from Mandaree, North Dakota to the HIGH HAWK 4-9HA EXPANSION pad site is approximately 11.40 miles.

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PAD LOCATION

THE N 1/2 OF THE NW 1/4 OF
SECTION 25, TOWNSHIP 150N, RANGE 94W,
DUNN COUNTY, NORTH DAKOTA

JOB NO: 4045 | DATE: 7/24/12
REVISIONS:

DRIVING DIRECTIONS
HIGH HAWK EXPANSION 4-9HA
~ WPX ENERGY WILLISTON, LLC ~