



# 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

AUG 30 2012

## MEMORANDUM

TO: Superintendent, Fort Berthold Agency

FROM: <sup>Acting</sup> Regional Director, Great Plains Region

SUBJECT: Environmental Assessment Addendum and Finding of No Significant Impact

In compliance with the regulations of the National Environmental Policy Act (NEPA) of 1969, as amended, an Addendum has been completed and a Finding of No Significant Impact (FONSI) has been issued. The Addendum authorizes land use for an access road connecting the Fort Berthold #151-94-34D-27-3H, -4H, -5H/Fort Berthold #150-94-3A-10-3H, -4H, -5H well pad to the existing Enerplus Miles 151-49-28D-21H/Sherwood 28-44H access road 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. Section 1506.6(b)). Please post the attached notice of availability at the Agency and Tribal buildings for 30 days.

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

Attachment

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

*Finding of No Significant Impact*

*Petro-Hunt, LLC*

*Addendum to Environmental Assessment to Authorize Land Use for an Access Road Connecting the Fort Berthold #151-94-34D-27-3H, -4H, -5H/Fort Berthold #150-94-3A-10-3H, -4H, -5H Well Pad to the Existing Enerplus Miles 151-49-28D-21H/Sherwood 28-44H Access Road*

*Fort Berthold Indian Reservation  
Dunn County, North Dakota*

The U.S. Bureau of Indian Affairs (BIA) has received a proposal for the construction and installation of an access road connecting the Fort Berthold #151-94-34D-27-3H, -4H, -5H/Fort Berthold #150-94-3A-10-3H, -4H, -5H well pad to the existing Enerplus Miles 151-49-28D-21H/Sherwood 28-44H (Miles/Sherwood) access road on the Fort Berthold Reservation.

The Fort Berthold #151-94-34D-27-3H, -4H, -5H/Fort Berthold #150-94-3A-10-3H, -4H, -5H access road would originate from the Miles/Sherwood access road in the SE $\frac{1}{4}$  SE $\frac{1}{4}$  Section 28, Township (T) 151 North (N), Range (R) 94 West (W), and run southeast through the SW $\frac{1}{4}$  Section 27, T151N, R94W. The access road would then trend south into Section 34, T151N, R94W (non-tribal fee land) and terminate at the proposed well pad in the SW $\frac{1}{4}$  SE $\frac{1}{4}$  Section 34, T151N, R94W. Associated federal actions by BIA include determinations of impacts and effects regarding environmental resources for developments on tribal lands.

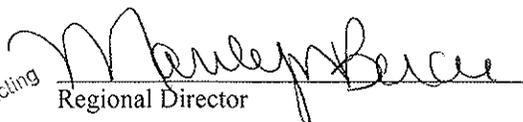
The potential of the proposed actions to impact the human environment is analyzed in the attached addendum to an existing EA, as required by the National Environmental Policy Act. Based on the recently completed addendum to the EA, I have determined that the proposed project will not significantly affect 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:

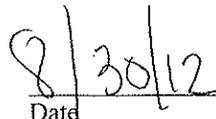
1. Agency and public involvement solicited for the preceding NEPA document was sufficient to ascertain potential environmental concerns associated with the currently proposed project.
2. Protective and prudent measures were designed to minimize impacts to air, water, soil, vegetation, wetlands, wildlife, 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



Date



# **ENVIRONMENTAL ASSESSMENT Addendum**

**United States Bureau of Indian Affairs**

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



**Petro-Hunt, LLC**

**Addendum to Environmental Assessment to Authorize Land Use for an Access Road  
Connecting the Fort Berthold #151-94-34D-27-3H, -4H, -5H/Fort Berthold #150-94-3A-  
10-3H, -4H, -5H Well Pad to the Existing Enerplus Miles 151-49-28D-21H/Sherwood 28-  
44H Access Road**

**Fort Berthold Indian Reservation**

**August 2012**

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

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## **1. Purpose and Need for the Proposed Action**

Petro-Hunt, LLC (Petro-Hunt) is proposing this action for the purpose of authorizing land use by Petro-Hunt for the construction and installation of an access road connecting the Fort Berthold #151-94-34D-27-3H, -4H, -5H/Fort Berthold #150-94-3A-10-3H, -4H, -5H well pad to the existing Enerplus Miles 151-49-28D-21H/Sherwood 28-44H (Miles/Sherwood) access road within the Fort Berthold Indian Reservation.

Petro-Hunt would utilize a temporary construction right-of-way (ROW) of 100 feet to construct the proposed access road and maintain a permanent ROW of 66 feet. Developments have been proposed on land held in trust by the United States in McKenzie 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 offer substantial economic benefits to the Three Affiliated Tribes of the Mandan, Hidatsa, and Arikara Nations and to individual tribal members.

## **2. Authorities**

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

## **3. Legal Land Description for Proposed Action**

The Fort Berthold #151-94-34D-27-3H, -4H, -5H/Fort Berthold #150-94-3A-10-3H, -4H, -5H access road would originate from the Miles/Sherwood access road in the SE $\frac{1}{4}$  SE $\frac{1}{4}$  Section 28, Township (T) 151 North (N), Range (R) 94 West (W), and run southeast through the SW $\frac{1}{4}$  Section 27, T151N, R94W. The access road would then trend south into Section 34, T151N, R94W (non-tribal fee land) and terminate at the proposed well pad in the SW $\frac{1}{4}$  SE $\frac{1}{4}$  Section 34, T151N, R94W.

## **4. Scope of Work for Proposed Action**

Petro-Hunt proposes to construct and install an access road that would join Enerplus' existing Miles/Sherwood access road to the Fort Berthold #151-94-34D-27-3H, -4H, -5H/Fort Berthold #150-94-3A-10-3H, -4H, -5H well pad. Portions of the access road as well as the entire well pad are proposed on fee land with no trust land involved. Approximately 3,518 feet (38%) of the proposed 9,300-foot-long access road would be located on trust land. All construction disturbances would occur within a purchased 100-foot-wide temporary ROW and permanent surface disturbance would occur within a 66-foot-wide ROW between the existing Enerplus Miles/Sherwood access road and the point at which trust land crosses into fee land. The Miles/Sherwood access road has been previously surveyed for impacts to natural and cultural resources with no significant findings. In total, approximately 8.08 acres

would be temporarily disturbed, and 5.33 acres permanently disturbed, as a result of activities associated with the construction of the proposed access road on trust land. Plats of the proposed alignment are provided in Appendix A.

## 5. Surveys

SWCA Environmental Consultants (SWCA) conducted natural resource surveys on 14.41 acres of trust land for threatened and endangered species habitat, migratory bird nesting habitat, bald and golden eagles and nests, and wetlands/waterbodies on October 10, 2011. BIA Environmental Specialist Chris McLaughlin was present for on-site inspections on January 25, 2012, to ensure that appropriate mitigation measures would be taken to avoid disturbance of sensitive resource areas. Migratory bird habitat is prevalent in the survey area and Petro-Hunt has committed to following one of the following three listed mitigation procedures in order to reduce the potential for impact on migratory birds and their nests: 1) conduct construction outside of the migratory bird breeding season (i.e., July 16–January 31); 2) regularly mow vegetation in the ROW prior to February 1 and maintain through July 15; or 3) conduct a field survey for nesting migratory birds within five days of construction commencement. SWCA identified the presence of one palustrine emergent wetland within the survey corridor during the field survey (see Figure 1). The wetland would be entirely avoided by construction activities.

A cultural resource inventory of this access road corridor segment was conducted by personnel of SWCA Environmental Consultants as part of the Fort Berthold #151-94-34D-27-3H, -4H, -5H/#150-94-3A-10-3H, -4H, -5H Well Pad and Access Road project, using an intensive pedestrian methodology. Approximately 67.25 acres were inventoried between October 10, 2011 and March 28, 2012 (Leroy 2012<sup>1</sup>). No historic properties were located that appear to possess the quality of integrity and meet at least one of the criteria (36 CFR 60.6) for inclusion on the National Register. As the lead federal agency, and as provided for in 36 CFR 800.5, on the basis of the information provided, BIA reached a determination of **no historic properties affected** for this undertaking. This determination was communicated to the THPO on July 30, 2012; however, the THPO did not respond within the allotted 30 day comment period.

## 6. Potential Effects

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

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<sup>1</sup> Leroy, Adam. 2012. *A Class I and Class III Cultural Resource Inventory of the Petro-Hunt Fort Berthold #151-94-34D-27-3H, -4H, -5H/Fort Berthold #150-94-3A-10-3H, -4H, -5H Well Pad and Access Road, Fort Berthold Indian Reservation, McKenzie County, North Dakota*. SWCA Environmental Consultants. Bismarck, ND.

Potential direct impacts to natural resources may include the loss of native vegetation and wildlife habitat, soil disturbance, and erosion during construction that may adversely affect air and water quality. Impacts would be mitigated by using best management practices during construction to minimize disturbance. Once construction activities are completed, reclamation would take place within six months and would include the return of topsoil and contouring, and seeding of native vegetation. Potential indirect impacts include noise and other disturbances to wildlife during construction and the introduction of noxious weeds.

Impacts would be mitigated by avoiding any federally listed threatened or endangered species or wetlands, avoiding nesting migratory birds, implementing best management practices to control the introduction of noxious weeds, and minimizing the length of time of construction activities. These mitigation measures are consistent with the approved National Environmental Policy Act (NEPA) document, which received a finding of no significant impact (April 2009).

## **7. Reclamation**

### **Interim Reclamation**

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

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

The disturbed areas would be reclaimed and contoured as soon as possible after construction is complete (fall/spring). The access road ROW would be covered with stockpiled topsoil and seeded with a seed mixture determined by the BIA. Petro-Hunt would control noxious weeds within the ROW and other applicable facilities by approved chemical or mechanical methods. If seeding of the ROW does not occur due to growing season constraints, Petro-Hunt will deploy approved weed-free hay across the entire ROW. The presence of hay across the ROW would reduce the potential for excessive erosion as a result of spring snow melt and precipitation.

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

- seeded areas are established;
- adjacent vegetative communities spread back into the disturbed areas; and
- noxious weeds are under control.

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

### **Final Reclamation**

Final reclamation would occur when the access road is decommissioned. All disturbed areas would be reclaimed, reflecting the BIA's view of oil and gas exploration and production as temporary intrusions on the landscape. The access road would be leveled or backfilled as necessary, scarified, recontoured, and seeded. Exceptions to these reclamation measures might occur if the BIA approves assignment of the access road either to the BIA roads inventory or to concurring surface allottees.

## **8. Applicable NEPA Document(s)**

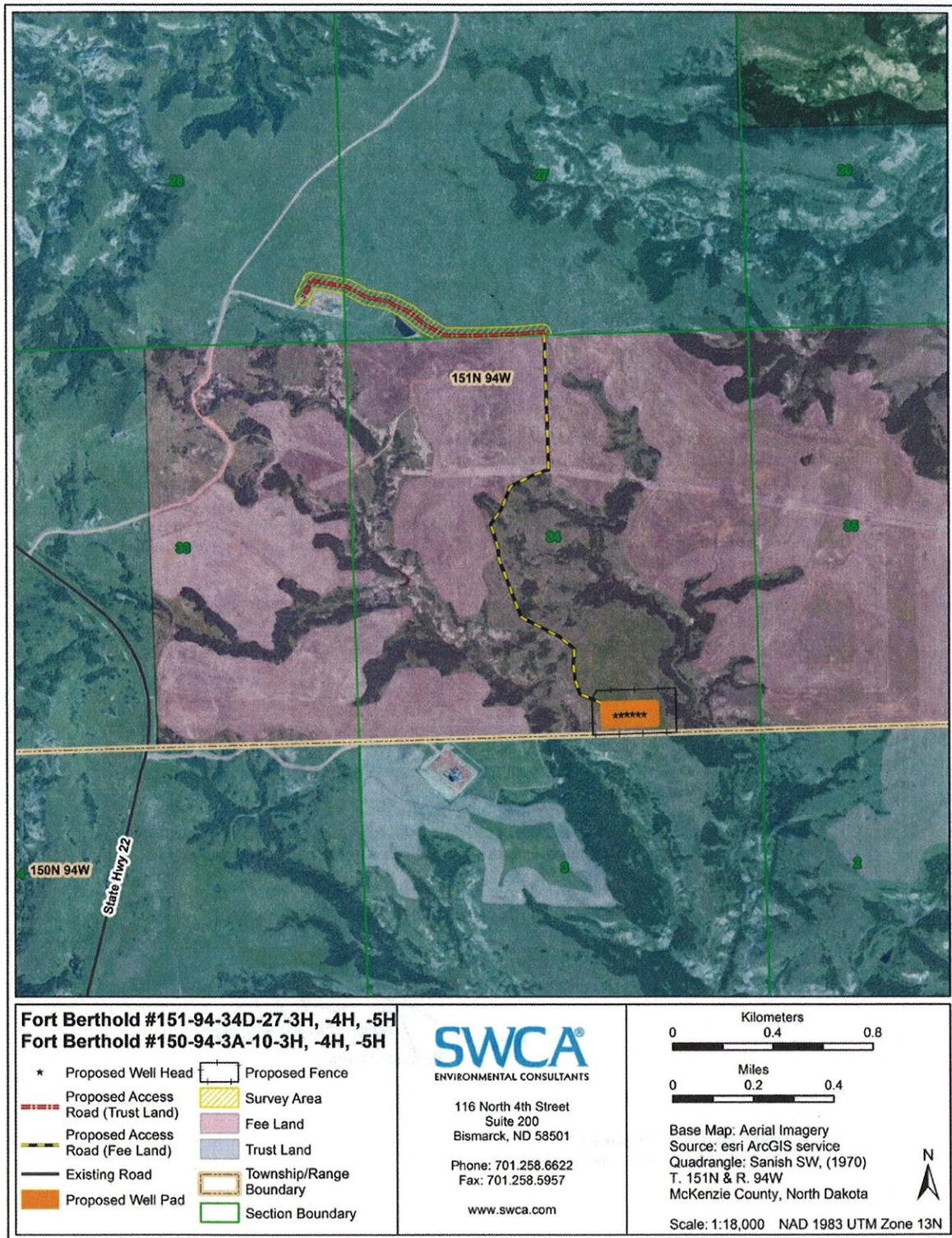
*Environmental Assessment and Finding of No Significant Impact: Four Horizontal Bakken Exploratory Wells: Sherwood #28-44H, Red Tipped Arrow #33-11H, Baker #15-44H, Fredericks #23-31H (April 2009).*

## **9. NEPA Adequacy Criteria**

This document has identified the above-mentioned previously prepared NEPA document, which adequately describe 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.

*Addendum to Environmental Assessment to Authorize Land Use for an Access Road Connecting the Fort Berthold #151-94-34D-27-3H, -4H, -5H/Fort Berthold #150-94-3A-10-3H, -4H, -5H Well Pad to the Existing Enerplus Miles 151-49-28D-21H/Sherwood 28-44H Access Road (August 2012)*



**Figure 1. Proposed Fort Berthold #151-94-34D-27-3H, -4H, -5H/Fort Berthold #150-94-3A-10-3H, -4H, -5H access road alignment.**

*Addendum to Environmental Assessment to Authorize Land Use for an Access Road Connecting the Fort Berthold #151-94-34D-27-3H, -4H, -5H/Fort Berthold #150-94-3A-10-3H, -4H, -5H Well Pad to the Existing Enerplus Miles 151-49-28D-21H/Sherwood 28-44H Access Road (August 2012)*



IN REPLY REFER TO:  
DESCRM  
MC-208

United States Department of the Interior

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

JUL 30 2012

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

Dear Mr. Crows Breast:

We have considered the potential effects on cultural resources of a multiple oil well pad and access route in McKenzie County, North Dakota. Approximately 67.25 acres were intensively inventoried using a pedestrian methodology. Potential surface disturbances are not expected to exceed the area depicted in the enclosed report. No historic properties were located that appear to possess the quality of integrity and meet at least one of the criteria (36 C.F.R. § 60.4) for inclusion on the National Register of Historic Places. No properties were located that appear to qualify for protection under the American Indian Religious Freedom Act (42 U.S.C. § 1996 [1994]).

As the surface management agency, and as provided for in 36 C.F.R. § 800.5 (2005), we have therefore reached a determination of **no historic properties affected** for this undertaking. Catalogued as BIA Case Number **AAO-2080/FB/12**, the proposed undertaking, location, and project dimensions are described in the following report:

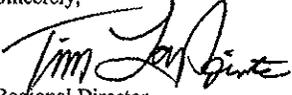
Leroy, Adam  
(2012) A Class I and Class III Cultural Resource Inventory of the Petro-Hunt Fort Berthold #151-94-34D-27-3H, -4H, -5H/#150-94-3A-10-3H, -4H, -5H Well Pad and Access Road, Fort Berthold Indian Reservation, McKenzie County, North Dakota. SWCA Environmental Consultants for Petro-Hunt, LLC, Bismarck.

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

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

Sincerely,

Acting

  
Regional Director

Enclosure

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

*Addendum to Environmental Assessment to Authorize Land Use for an Access Road Connecting the Fort Berthold #151-94-34D-27-3H, -4H, -5H/Fort Berthold #150-94-3A-10-3H, -4H, -5H Well Pad to the Existing Enerplus Miles 151-49-28D-21H/Sherwood 28-44H Access Road (August 2012)*

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## **APPENDIX A**

**Plats, Layout, and Right-of-Way for Fort Berthold #151-94-34D-27-3H, -4H, -5H/Fort Berthold #150-94-3A-10-3H, -4H, -5H Access Road**



Send survey area to UENT717

# PETRO-HUNT, L.L.C.

FORT BERTHOLD #151-94-34D-27-3H, #151-94-34D-27-4H, #151-94-34D-27-5H,  
#150-94-3A-10-3H, #150-94-3A-10-4H & #150-94-3A-10-5H

LOCATED IN MCKENZIE COUNTY, NORTH DAKOTA  
SECTION 34, T151N, R94W, 5th P.M.



PHOTO: VIEW OF LOCATION STAKES

CAMERA ANGLE: WESTERLY



PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: NORTHERLY



Since 1964

**UELS**

Uintah Engineering & Land Surveying  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813

LOCATION PHOTOS

11 30 11  
MONTH DAY YEAR

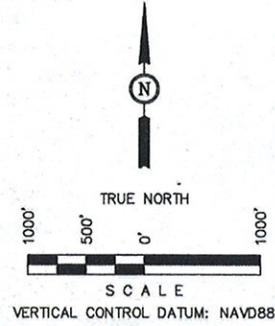
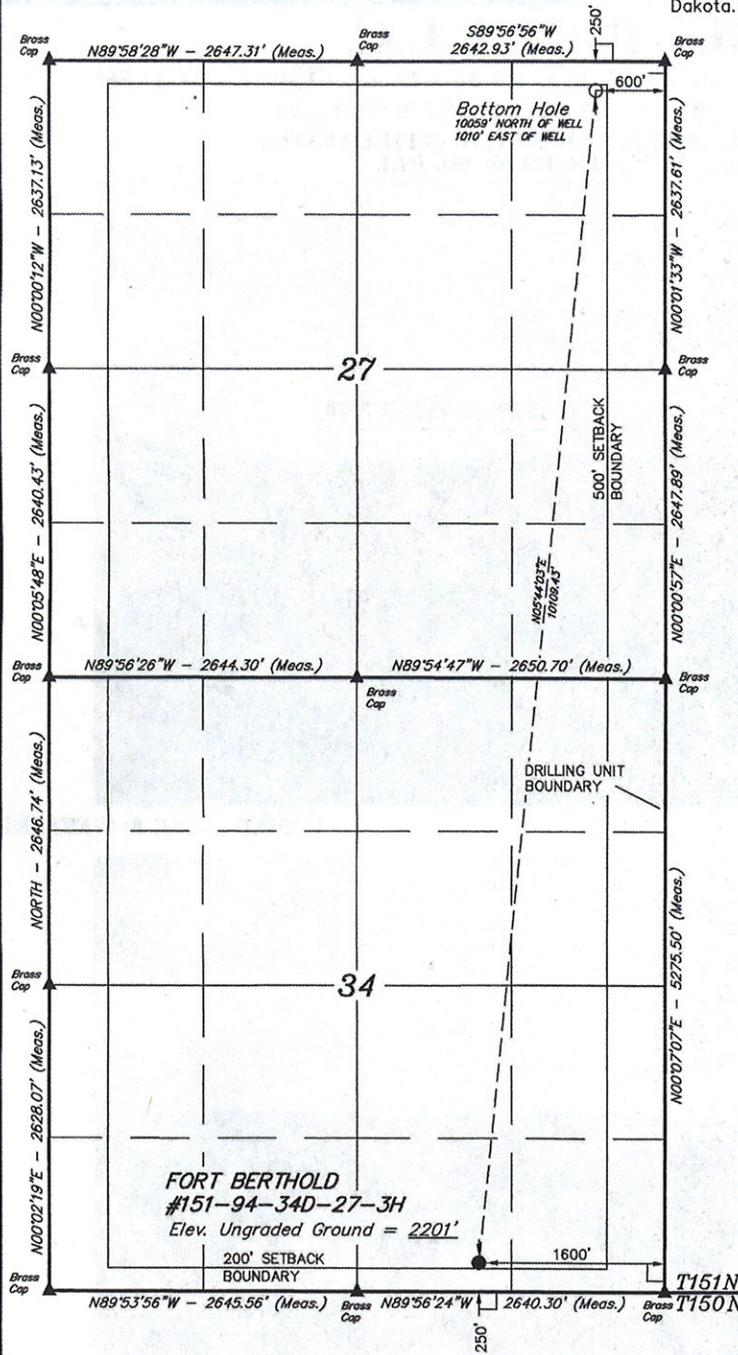
PHOTO

TAKEN BY: GR. DRAWN BY: J.L.G. REVISED: 00-00-00

# WELL LOCATION PLAT T151N, R94W, 5th P.M.

PETRO-HUNT, L.L.C.

Well location, FORT BERTHOLD #151-94-34D-27-3H, located as shown in SW 1/4 SE 1/4 of Section 34, T151N, R94W, 5th P.M., McKenzie County, North Dakota.



**LEGEND:**

- └ = 90° SYMBOL
- = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.
- △ = SECTION CORNERS RE- ESTABLISHED. (Not Set on Ground)

**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.



*Troy Jensen*  
REGISTERED LAND SURVEYOR  
REGISTRATION NO. 4654  
STATE OF NORTH DAKOTA

UINTAH ENGINEERING & LAND SURVEYING  
85 SOUTH 200 EAST - VERNAL, UTAH 84078  
(436) 789-1017

[derived from: N.G.S. G.P.U.S. Solution REF FRAME: NAD\_83(CORS96)(EPOCH:2002.0000)]

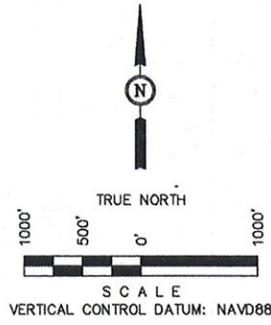
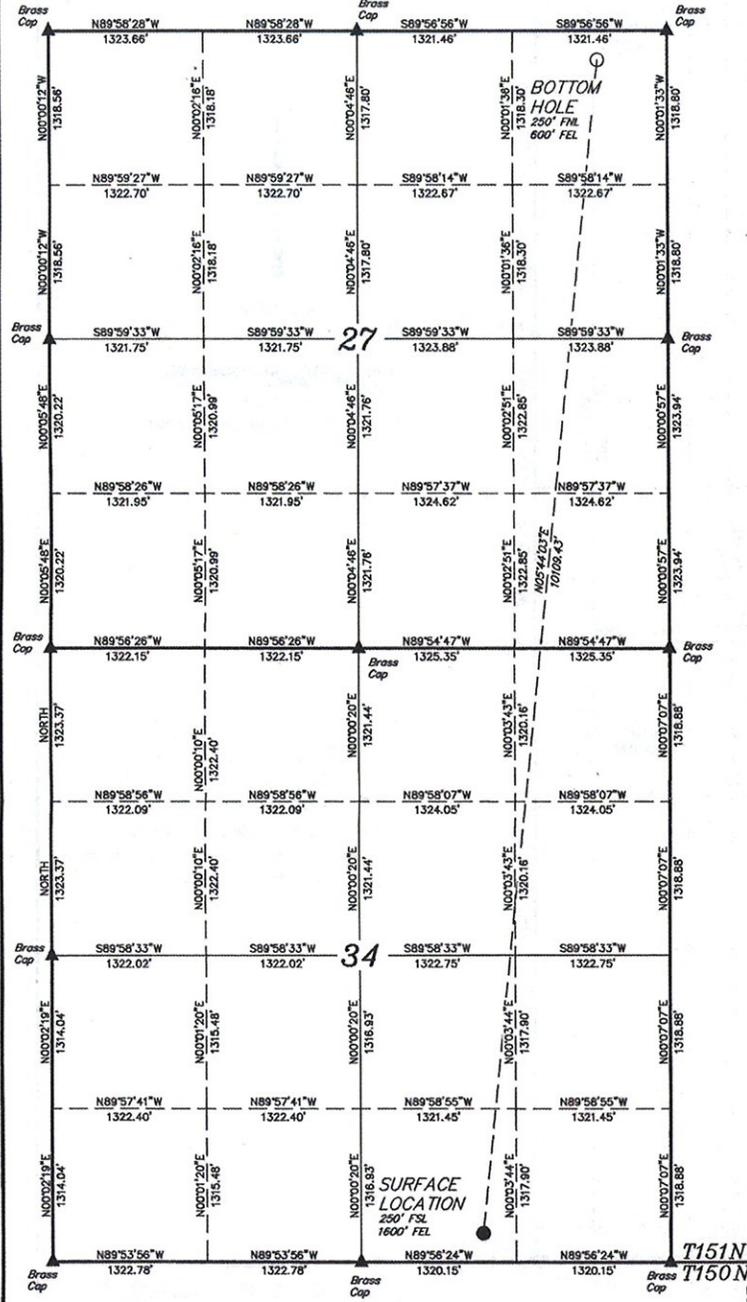
NAD 83 (TARGET BOTTOM HOLE)	NAD 83 (SURFACE LOCATION)
LATITUDE = 47°52'33.07" (47.875853)	LATITUDE = 47°50'53.80" (47.848278)
LONGITUDE = 102°41'17.32" (102.688144)	LONGITUDE = 102°41'31.89" (102.692192)
NAD 27 (TARGET BOTTOM HOLE)	NAD 27 (SURFACE LOCATION)
LATITUDE = 47°52'33.01" (47.875836)	LATITUDE = 47°50'53.75" (47.848264)
LONGITUDE = 102°41'15.64" (102.687678)	LONGITUDE = 102°41'30.21" (102.691725)

SCALE	DATE SURVEYED:	DATE DRAWN:
1" = 1000'	10-10-11	12-01-11
PARTY	REFERENCES	
G.R. D.F. M.D.	G.L.O. PLAT	
WEATHER	FILE	
COOL	PETRO-HUNT, L.L.C.	

# SECTION BREAKDOWN T151N, R94W, 5th P.M.

PETRO-HUNT, L.L.C.

Well location, FORT BERTHOLD #151-94-34D-27-3H,  
located as shown in SW 1/4 SE 1/4 of Section 34,  
T151N, R94W, 5th P.M., McKenzie County, North  
Dakota.



- LEGEND:**
- └─┘ = 90° SYMBOL
  - = PROPOSED WELL HEAD.
  - ▲ = SECTION CORNERS LOCATED.
  - △ = SECTION CORNERS RE-ESTABLISHED.  
(Not Set on Ground)

**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.



*Troy Jensen*  
REGISTERED LAND SURVEYOR  
REGISTRATION NO. 4654  
STATE OF NORTH DAKOTA

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(435) 789-1017

[derived from: N.G.S. O.P.U.S. Solution REF FRAME: NAD\_83(CORS96)(EPOCH: 2002.0000)]

NAD 83 (TARGET BOTTOM HOLE) LATITUDE = 47°52'33.07" (47.875853) LONGITUDE = 102°41'17.32" (102.688144)	NAD 83 (SURFACE LOCATION) LATITUDE = 47°50'53.80" (47.848278) LONGITUDE = 102°41'31.89" (102.692192)
NAD 27 (TARGET BOTTOM HOLE) LATITUDE = 47°52'33.01" (47.875836) LONGITUDE = 102°41'15.64" (102.687678)	NAD 27 (SURFACE LOCATION) LATITUDE = 47°50'53.75" (47.848284) LONGITUDE = 102°41'30.21" (102.691725)

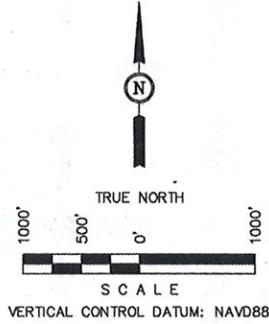
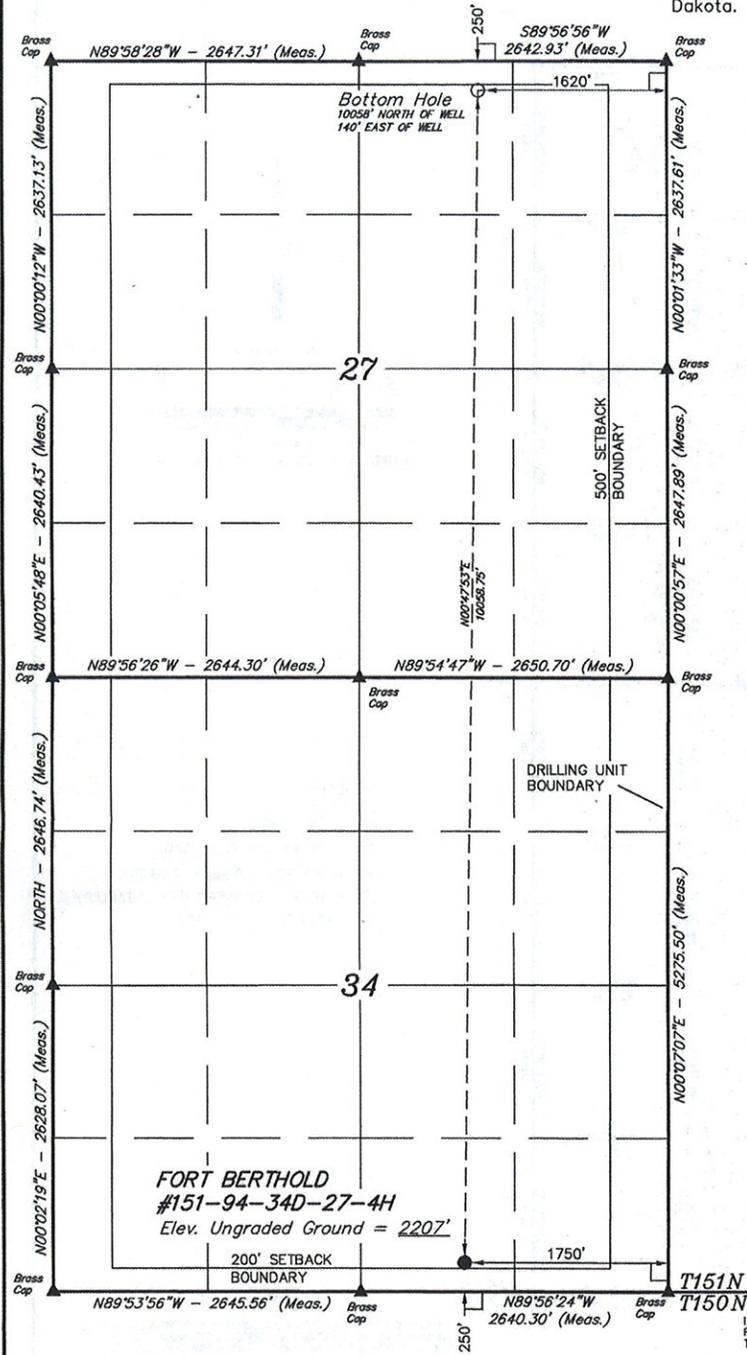
SCALE 1" = 1000'	DATE SURVEYED: 10-10-11	DATE DRAWN: 12-01-11
PARTY G.R. D.F. M.D.	REFERENCES G.L.O. PLAT	
WEATHER COOL	FILE PETRO-HUNT, L.L.C.	

# WELL LOCATION PLAT

## T151N, R94W, 5th P.M.

PETRO-HUNT, L.L.C.

Well location, FORT BERTHOLD #151-94-34D-27-4H, located as shown in SW 1/4 SE 1/4 of Section 34, T151N, R94W, 5th P.M., McKenzie County, North Dakota.



**LEGEND:**

- └─┘ = 90° SYMBOL
- = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.
- △ = SECTION CORNERS RE- ESTABLISHED.  
(Not Set on Ground)

**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.



*Troy Jensen*  
REGISTERED LAND SURVEYOR  
REGISTRATION NO. 4654  
STATE OF NORTH DAKOTA

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

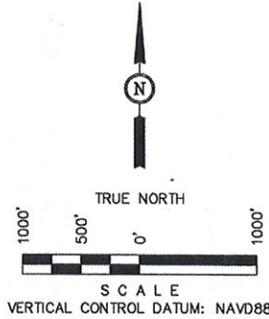
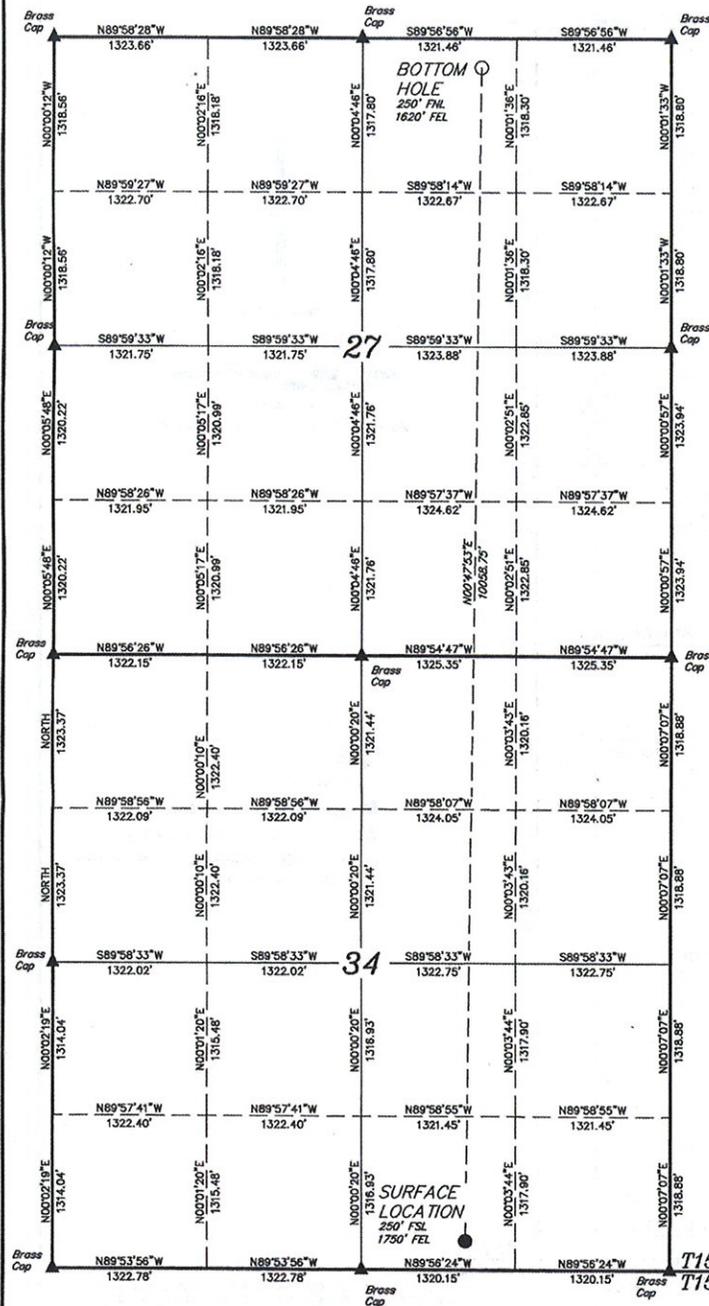
[derived from: N.G.S. O.P.U.S. Solution REF FRAME: NAD\_83(CORS98)(EPOCH:2002.0000)]

NAD 83 (TARGET BOTTOM HOLE)	NAD 83 (SURFACE LOCATION)	SCALE	DATE SURVEYED:	DATE DRAWN:
LATITUDE = 47°52'33.05" (47.875847)	LATITUDE = 47°50'53.80" (47.848278)	1" = 1000'	10-10-11	12-01-11
LONGITUDE = 102°41'32.28" (102.692300)	LONGITUDE = 102°41'34.09" (102.692803)	PARTY	REFERENCES	
NAD 27 (TARGET BOTTOM HOLE)	NAD 27 (SURFACE LOCATION)	G.R. D.F. M.D.	G.L.O. PLAT	
LATITUDE = 47°52'32.88" (47.875831)	LATITUDE = 47°50'53.75" (47.848264)	WEATHER	FILE	
LONGITUDE = 102°41'30.60" (102.691833)	LONGITUDE = 102°41'32.41" (102.692336)	COOL	PETRO-HUNT, L.L.C.	

# SECTION BREAKDOWN T151N, R94W, 5th P.M.

PETRO-HUNT, L.L.C.

Well location, FORT BERTHOLD #151-94-34D-27-4H, located as shown in SW 1/4 SE 1/4 of Section 34, T151N, R94W, 5th P.M., McKenzie County, North Dakota.



**LEGEND:**

- └─┘ = 90° SYMBOL
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- △ = SECTION CORNERS RE-ESTABLISHED. (Not Set on Ground)

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[derived from: N.G.S. O.P.U.S. Solution REF FRAME: NAD\_83(CORS96)(EPOCH:2002.0000)]

NAD 83 (TARGET BOTTOM HOLE) LATITUDE = 47°52'33.05" (47.875847) LONGITUDE = 102°41'32.28" (102.692300)	NAD 83 (SURFACE LOCATION) LATITUDE = 47°50'53.80" (47.848278) LONGITUDE = 102°41'34.09" (102.692803)
NAD 27 (TARGET BOTTOM HOLE) LATITUDE = 47°52'32.89" (47.875831) LONGITUDE = 102°41'30.60" (102.691833)	NAD 27 (SURFACE LOCATION) LATITUDE = 47°50'53.75" (47.848264) LONGITUDE = 102°41'32.41" (102.692336)

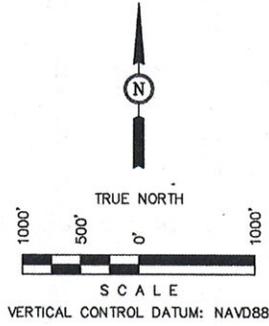
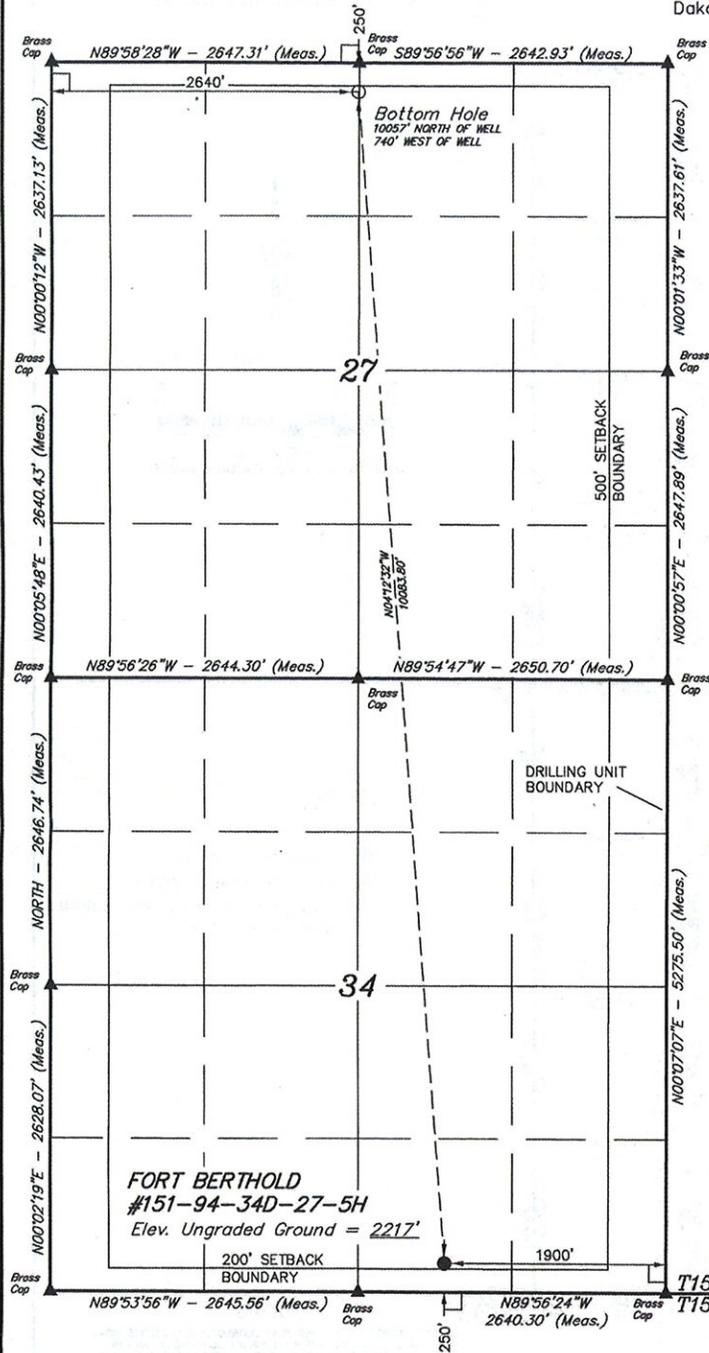
SCALE 1" = 1000'	DATE SURVEYED: 10-10-11	DATE DRAWN: 12-01-11
PARTY G.R. D.F. M.D.	REFERENCES G.L.O. PLAT	
WEATHER COOL	FILE PETRO-HUNT, L.L.C.	

# WELL LOCATION PLAT

## T151N, R94W, 5th P.M.

PETRO-HUNT, L.L.C.

Well location, FORT BERTHOLD #151-94-34D-27-5H, located as shown in SW 1/4 SE 1/4 of Section 34, T151N, R94W, 5th P.M., McKenzie County, North Dakota.



**LEGEND:**

- └ = 90° SYMBOL
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- ▲ = SECTION CORNERS LOCATED.
- △ = SECTION CORNERS RE- ESTABLISHED. (Not Set on Ground)

**CERTIFICATE**

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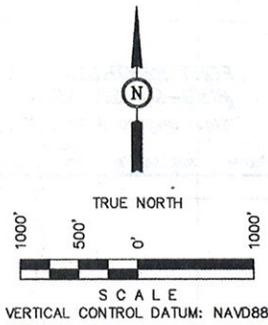
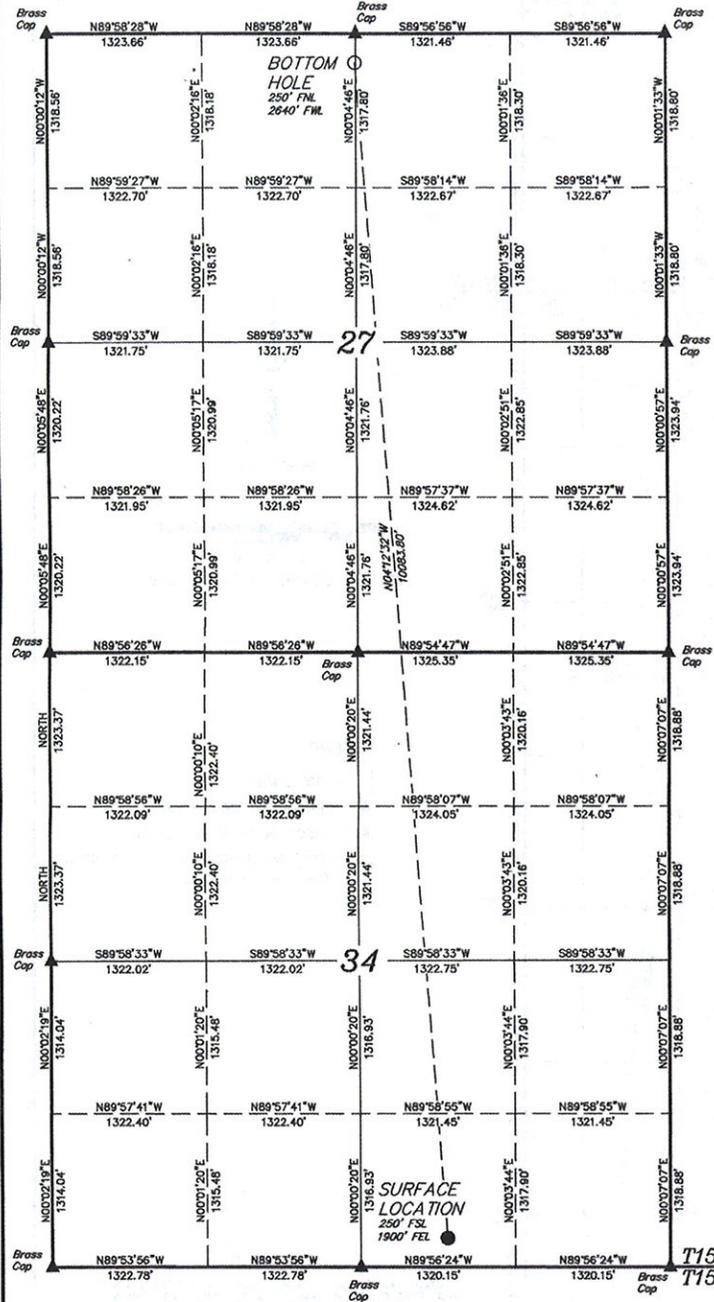
[derived from: N.G.S. O.P.U.S. Solution REF FRAME: NAD\_83(CORS96)(EPOCH:2002.0000)]

NAD 83 (TARGET BOTTOM HOLE)	NAD 83 (SURFACE LOCATION)	SCALE	DATE SURVEYED:	DATE DRAWN:
LATITUDE = 47°52'33.02" (47.875839)	LATITUDE = 47°50'53.80" (47.848278)	1" = 1000'	10-10-11	12-01-11
LONGITUDE = 102°41'47.39" (102.696497)	LONGITUDE = 102°41'36.29" (102.693414)	PARTY	REFERENCES	
NAD 27 (TARGET BOTTOM HOLE)	NAD 27 (SURFACE LOCATION)	G.R. D.F. M.D.	G.L.O. PLAT	
LATITUDE = 47°52'32.96" (47.875822)	LATITUDE = 47°50'53.75" (47.848264)	WEATHER	FILE	
LONGITUDE = 102°41'45.71" (102.696031)	LONGITUDE = 102°41'34.61" (102.692947)	COOL	PETRO-HUNT, L.L.C.	

# SECTION BREAKDOWN T151N, R94W, 5th P.M.

PETRO-HUNT, L.L.C.

Well location, FORT BERTHOLD #151-94-34D-27-5H,  
located as shown in SW 1/4 SE 1/4 of Section 34,  
T151N, R94W, 5th P.M., McKenzie County, North  
Dakota.



- LEGEND:**
- └─┘ = 90° SYMBOL
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  - ▲ = SECTION CORNERS LOCATED.
  - △ = SECTION CORNERS RE- ESTABLISHED. (Not Set on Ground)

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(435) 789-1017

[derived from: N.G.S. O.P.U.S. Solution REF FRAME: NAD\_83(CORS96)(EPOCH: 2002.0000)]

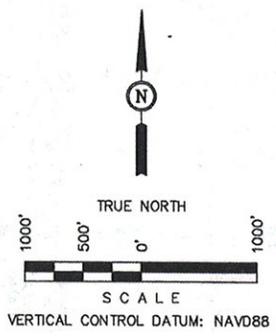
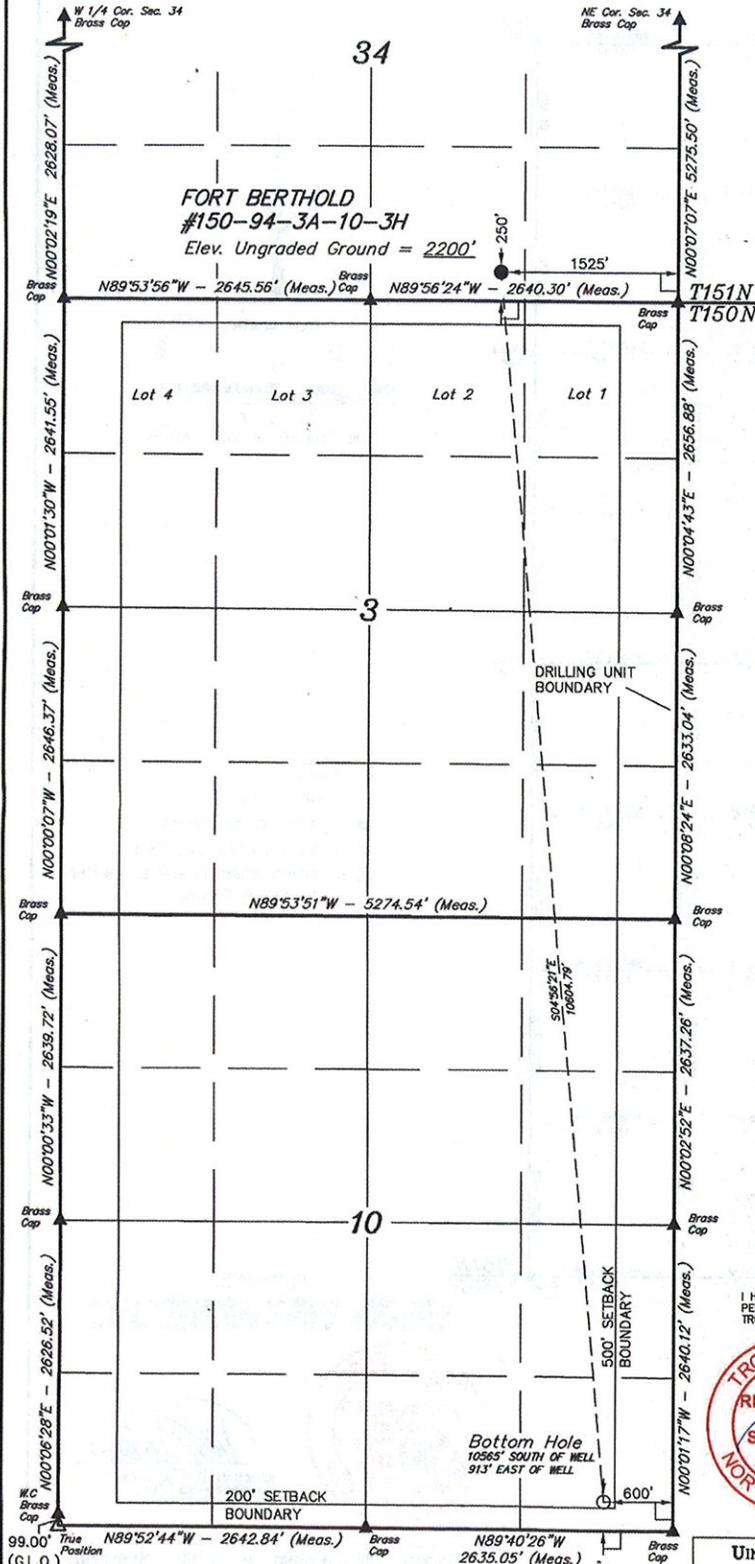
NAD 83 (TARGET BOTTOM HOLE) LATITUDE = 47°52'33.02" (47.875839) LONGITUDE = 102°41'47.39" (102.696497)	NAD 83 (SURFACE LOCATION) LATITUDE = 47°50'53.80" (47.848278) LONGITUDE = 102°41'36.29" (102.693414)
NAD 27 (TARGET BOTTOM HOLE) LATITUDE = 47°52'32.96" (47.875822) LONGITUDE = 102°41'45.71" (102.696031)	NAD 27 (SURFACE LOCATION) LATITUDE = 47°50'53.75" (47.848264) LONGITUDE = 102°41'34.61" (102.692947)

SCALE 1" = 1000'	DATE SURVEYED: 10-10-11	DATE DRAWN: 12-01-11
PARTY G.R. D.F. M.D.	REFERENCES G.L.O. PLAT	
WEATHER COOL	FILE PETRO-HUNT, L.L.C.	

**WELL LOCATION PLAT**  
**T151N, R94W, 5th P.M.**

PETRO-HUNT, L.L.C.

Well location, FORT BERTHOLD #150-94-3A-10-3H,  
 located as shown in the SW 1/4 SE 1/4 of Section  
 34, T151N, R94W, 5th P.M., McKenzie County, North  
 Dakota.



- LEGEND:**
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  - = PROPOSED WELL HEAD.
  - ▲ = SECTION CORNERS LOCATED.
  - △ = SECTION CORNERS RE- ESTABLISHED.  
(Not Set on Ground)

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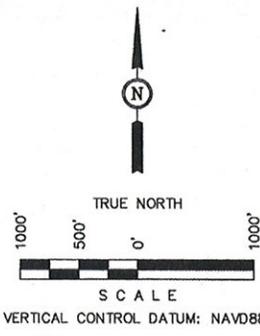
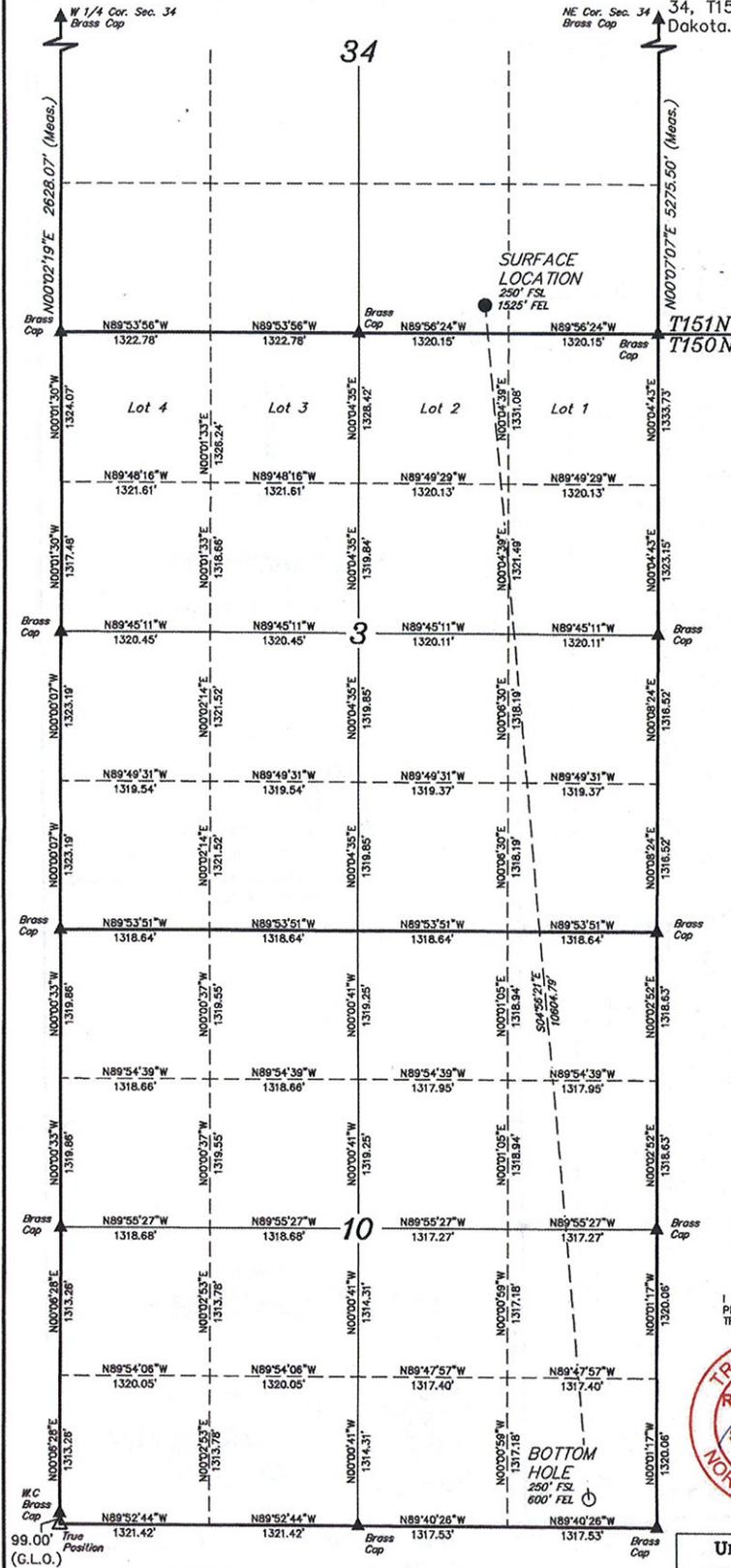
[derived from: N.G.S. O.P.U.S. Solution REF FRAME: NAD\_83(CORS96)(EPOCH:2002.0000)]

NAD 83 (TARGET BOTTOM HOLE)	NAD 83 (SURFACE LOCATION)	SCALE	DATE SURVEYED:	DATE DRAWN:
LATITUDE = 47°49'09.56" (47.819322)	LATITUDE = 47°50'53.80" (47.848278)	1" = 1000'	10-10-11	12-01-11
LONGITUDE = 102°41'17.15" (102.688097)	LONGITUDE = 102°41'30.79" (102.691886)	PARTY	REFERENCES	
NAD 27 (TARGET BOTTOM HOLE)	NAD 27 (SURFACE LOCATION)	G.R. D.F. M.D.	G.L.O. PLAT	
LATITUDE = 47°49'09.51" (47.819308)	LATITUDE = 47°50'53.75" (47.848284)	WEATHER	FILE	
LONGITUDE = 102°41'15.47" (102.687631)	LONGITUDE = 102°41'29.11" (102.691419)	COOL	PETRO-HUNT, L.L.C.	

**SECTION BREAKDOWN**  
**T151N, R94W, 5th P.M.**

PETRO-HUNT, L.L.C.

Well location, FORT BERTHOLD #150-94-3A-10-3H, located as shown in the SW 1/4 SE 1/4 of Section 34, T151N, R94W, 5th P.M., McKenzie County, North Dakota.



- LEGEND:**
- └─┘ = 90° SYMBOL
  - = PROPOSED WELL HEAD.
  - ▲ = SECTION CORNERS LOCATED.
  - △ = SECTION CORNERS RE-ESTABLISHED. (Not Set on Ground)

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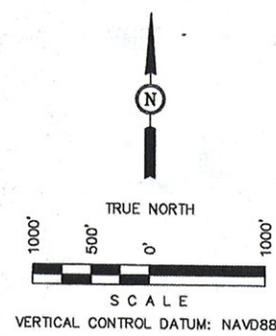
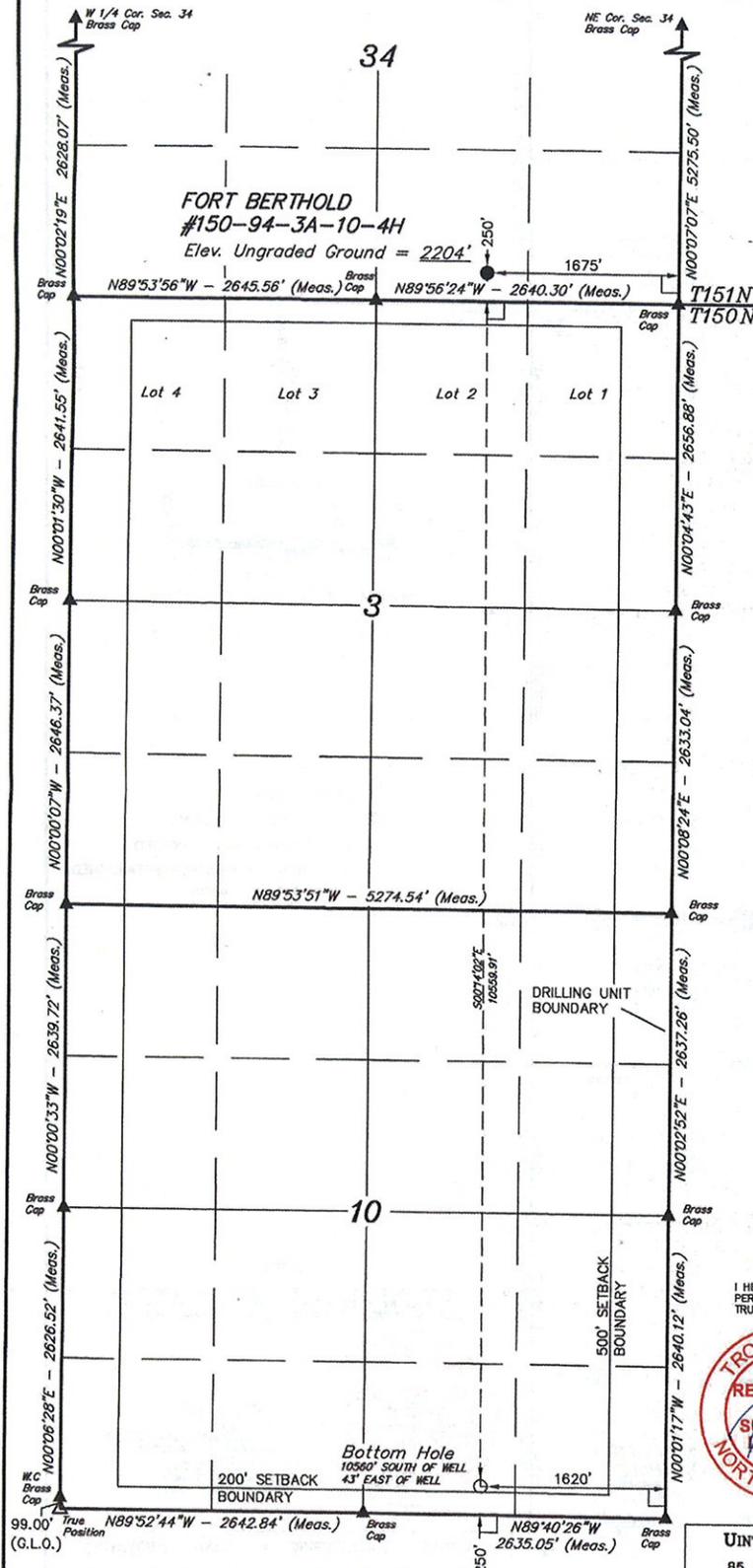
[derived from: N.G.S. O.P.U.S. Solution REF FRAME: NAD\_83(CORS96)(EPOCH: 2002.0000)]

NAD 83 (TARGET BOTTOM HOLE) LATITUDE = 47°49'09.56" (47.819322) LONGITUDE = 102°41'17.15" (102.688097)	NAD 83 (SURFACE LOCATION) LATITUDE = 47°50'53.80" (47.848278) LONGITUDE = 102°41'30.79" (102.691866)	SCALE 1" = 1000'	DATE SURVEYED: 10-10-11	DATE DRAWN: 12-01-11
NAD 27 (TARGET BOTTOM HOLE) LATITUDE = 47°49'09.51" (47.819308) LONGITUDE = 102°41'15.47" (102.687631)	NAD 27 (SURFACE LOCATION) LATITUDE = 47°50'53.75" (47.848284) LONGITUDE = 102°41'28.11" (102.691419)	PARTY G.R. D.F. M.D.	REFERENCES G.L.O. PLAT	
WEATHER COOL		FILE PETRO-HUNT, L.L.C.		

# WELL LOCATION PLAT T151N, R94W, 5th P.M.

PETRO-HUNT, L.L.C.

Well location, FORT BERTHOLD #150-94-3A-10-4H, located as shown in the SW 1/4 SE 1/4 of Section 34, T151N, R94W, 5th P.M., McKenzie County, North Dakota.



- LEGEND:**
- └─┘ = 90° SYMBOL
  - = PROPOSED WELL HEAD.
  - ▲ = SECTION CORNERS LOCATED.
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[derived from: N.G.S. O.P.U.S. Solution REF FRAME: NAD\_83(CORS96)(EPOCH:2002.0000)]

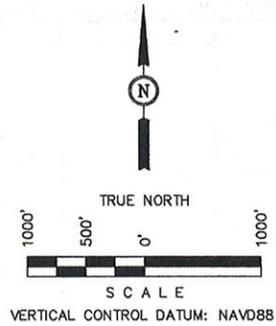
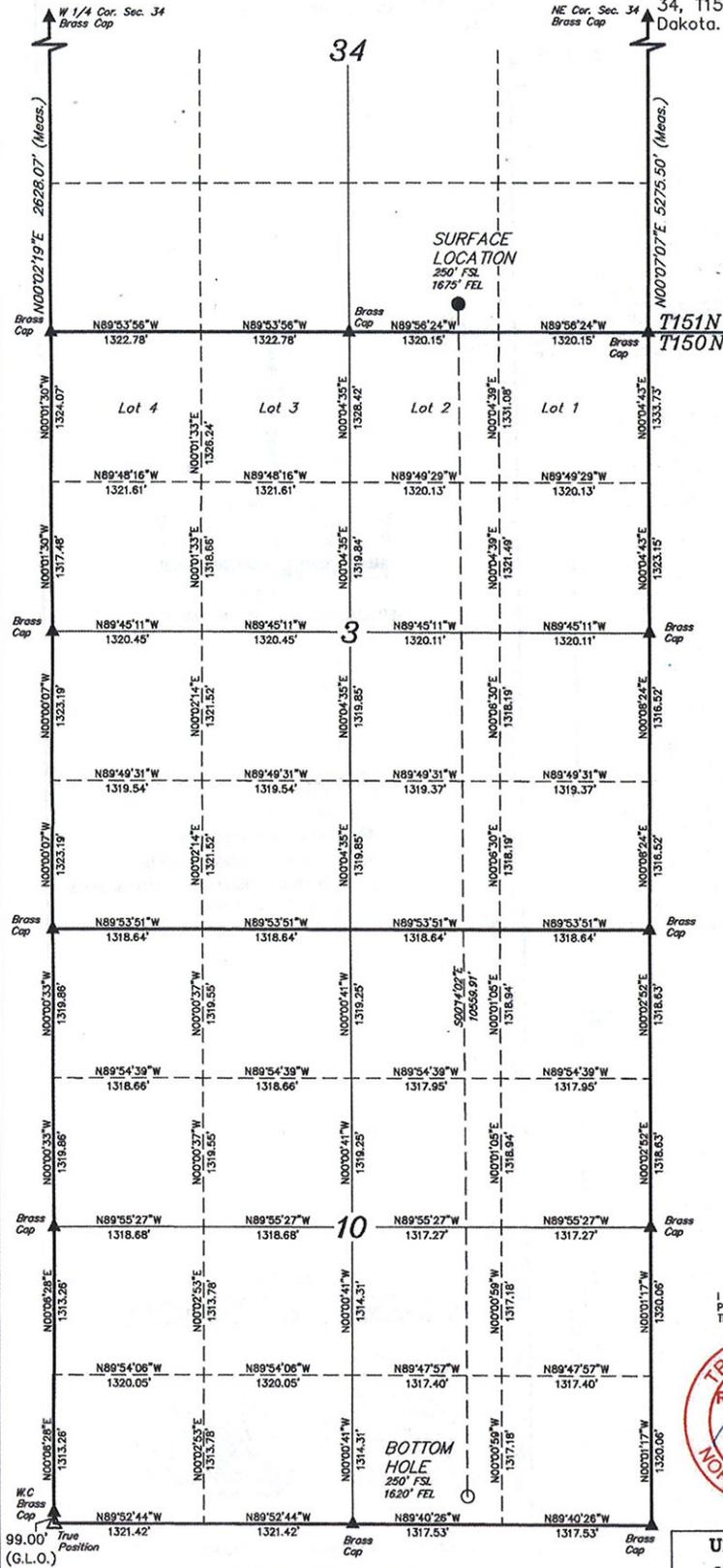
NAD 83 (TARGET BOTTOM HOLE)	NAD 83 (SURFACE LOCATION)
LATITUDE = 47°49'09.60" (47.819333)	LATITUDE = 47°50'53.80" (47.848278)
LONGITUDE = 102°41'32.10" (102.692250)	LONGITUDE = 102°41'32.99" (102.692497)
NAD 27 (TARGET BOTTOM HOLE)	NAD 27 (SURFACE LOCATION)
LATITUDE = 47°49'09.55" (47.819319)	LATITUDE = 47°50'53.75" (47.848264)
LONGITUDE = 102°41'30.42" (102.691763)	LONGITUDE = 102°41'31.31" (102.692031)

SCALE 1" = 1000'	DATE SURVEYED: 10-10-11	DATE DRAWN: 12-01-11
PARTY G.R. D.F. M.D.	REFERENCES G.L.O. PLAT	
WEATHER COOL	FILE PETRO-HUNT, L.L.C.	

**SECTION BREAKDOWN**  
**T151N, R94W, 5th P.M.**

PETRO-HUNT, L.L.C.

Well location, FORT BERTHOLD #150-94-3A-10-4H,  
 located as shown in the SW 1/4 SE 1/4 of Section  
 34, T151N, R94W, 5th P.M., McKenzie County, North  
 Dakota.



- LEGEND:**
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  - = PROPOSED WELL HEAD.
  - ▲ = SECTION CORNERS LOCATED.
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[derived from: N.G.S. O.P.U.S. Solution REF FRAME: NAD\_83(CORS96)(EPOCH:2002.0000)]

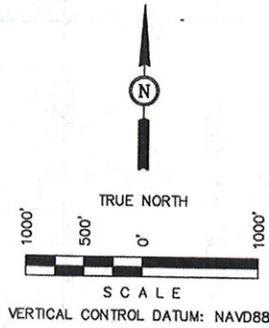
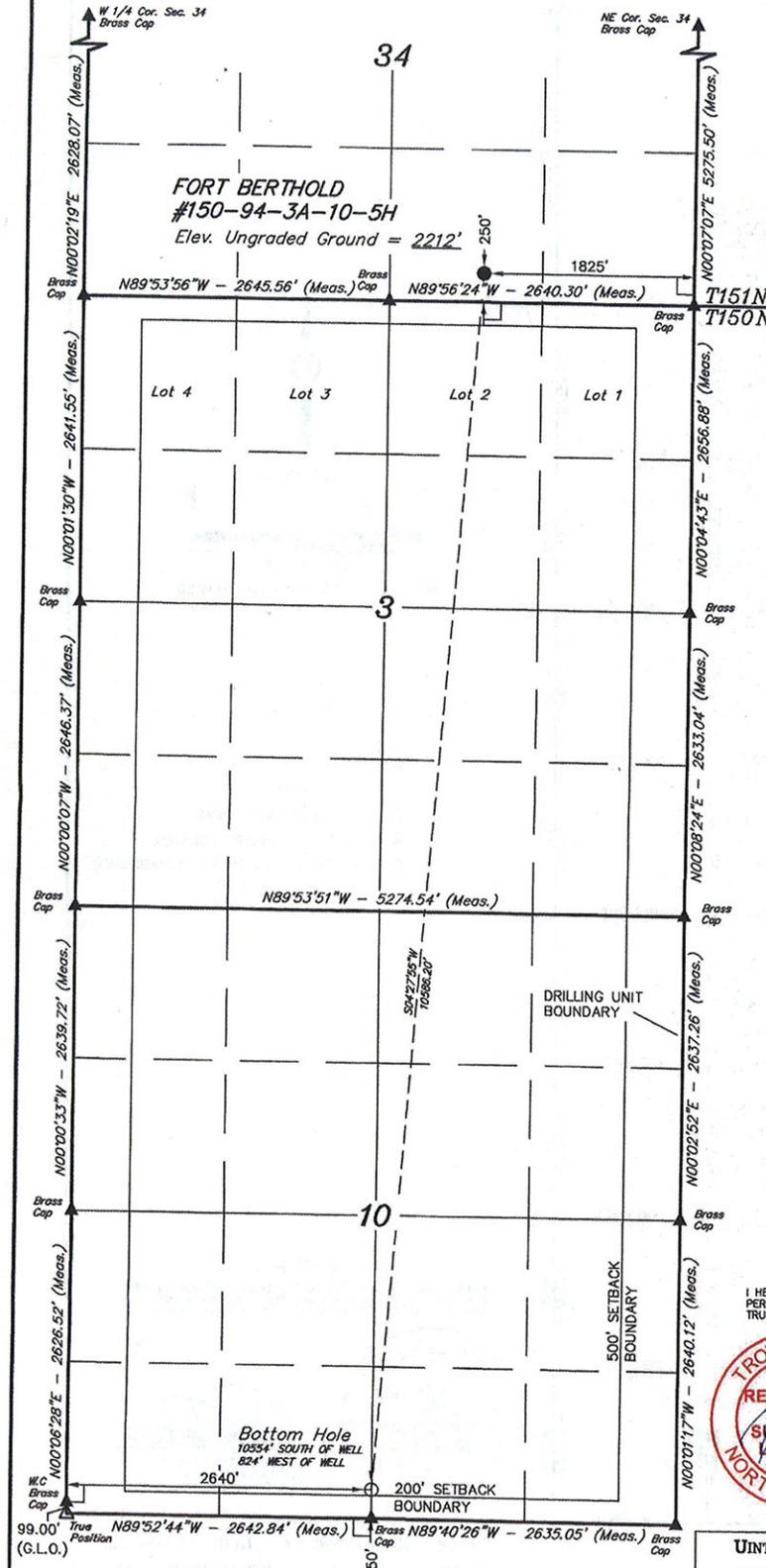
NAD 83 (TARGET BOTTOM HOLE) LATITUDE = 47°49'08.60" (47.819333) LONGITUDE = 102°41'32.10" (102.692250)	NAD 83 (SURFACE LOCATION) LATITUDE = 47°50'53.80" (47.848278) LONGITUDE = 102°41'32.99" (102.692497)
NAD 27 (TARGET BOTTOM HOLE) LATITUDE = 47°49'09.55" (47.819319) LONGITUDE = 102°41'30.42" (102.691785)	NAD 27 (SURFACE LOCATION) LATITUDE = 47°50'53.75" (47.848264) LONGITUDE = 102°41'31.31" (102.692031)

SCALE 1" = 1000'	DATE SURVEYED: 10-10-11	DATE DRAWN: 12-01-11
PARTY G.R. D.F. M.D.	REFERENCES G.L.O. PLAT	
WEATHER COOL	FILE PETRO-HUNT, L.L.C.	

# WELL LOCATION PLAT T151N, R94W, 5th P.M.

PETRO-HUNT, L.L.C.

Well location, FORT BERTHOLD #150-94-3A-10-5H, located as shown in the SW 1/4 SE 1/4 of Section 34, T151N, R94W, 5th P.M., McKenzie County, North Dakota.



**LEGEND:**

- └ = 90° SYMBOL
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- ▲ = SECTION CORNERS LOCATED.
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[derived from: N.G.S. O.P.U.S. Solution REF FRAME: NAD\_83(CORS86)(EPOCH: 2002.0000)]

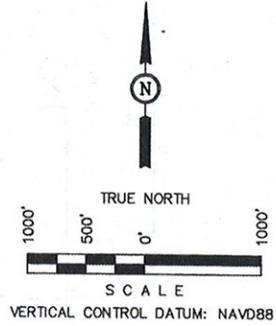
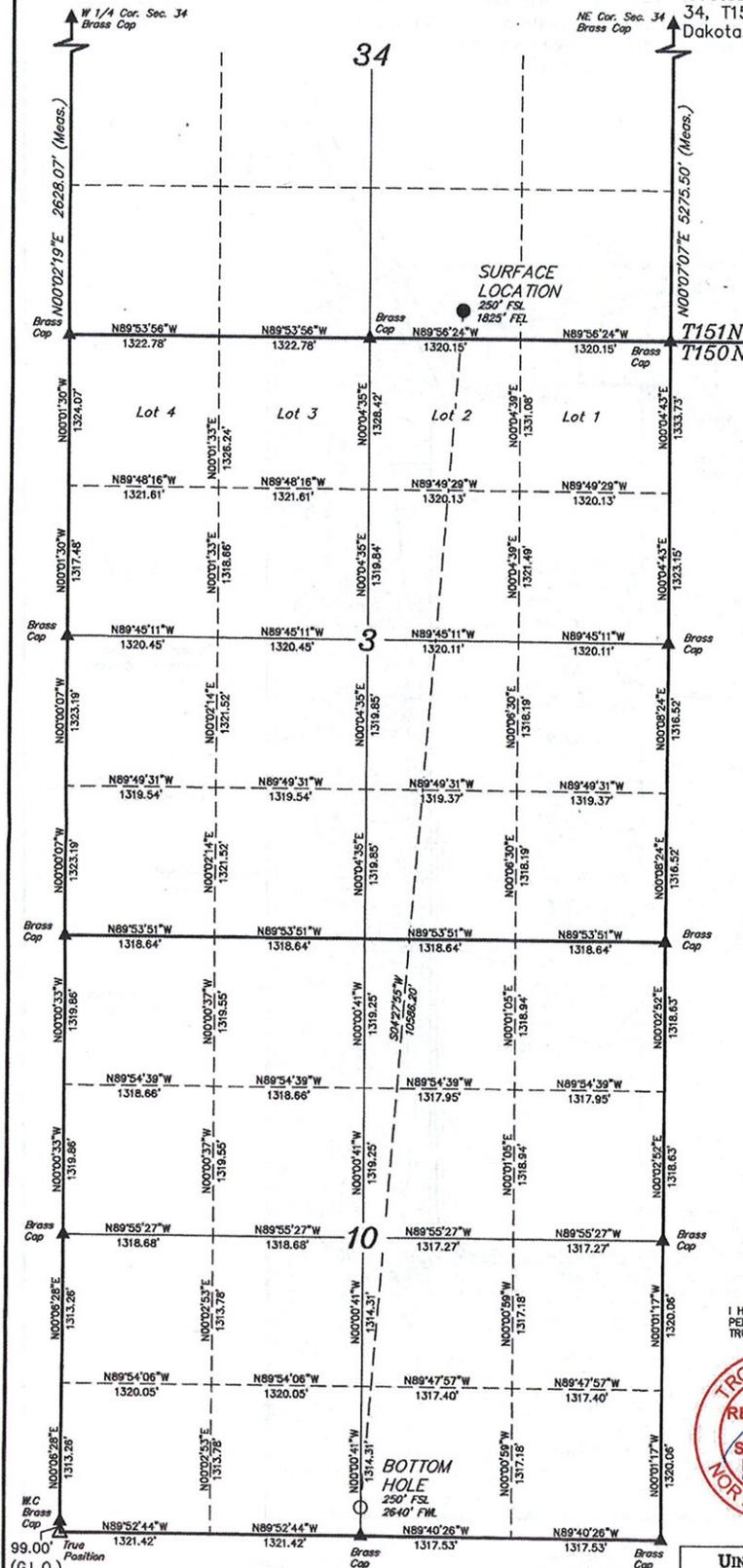
NAD 83 (TARGET BOTTOM HOLE)	NAD 83 (SURFACE LOCATION)
LATITUDE = 47°49'09.64" (47.819344)	LATITUDE = 47°50'53.80" (47.848278)
LONGITUDE = 102°41'47.00" (102.696389)	LONGITUDE = 102°41'35.19" (102.693108)
NAD 27 (TARGET BOTTOM HOLE)	NAD 27 (SURFACE LOCATION)
LATITUDE = 47°49'09.59" (47.819331)	LATITUDE = 47°50'53.75" (47.848264)
LONGITUDE = 102°41'45.32" (102.695922)	LONGITUDE = 102°41'33.51" (102.692842)

SCALE	DATE SURVEYED:	DATE DRAWN:
1" = 1000'	10-10-11	12-01-11
PARTY	REFERENCES	
G.R. D.F. M.D.	G.L.O. PLAT	
WEATHER	FILE	
COOL	PETRO-HUNT, L.L.C.	

**SECTION BREAKDOWN**  
**T151N, R94W, 5th P.M.**

PETRO-HUNT, L.L.C.

Well location, FORT BERTHOLD #150-94-3A-10-5H,  
 located as shown in the SW 1/4 SE 1/4 of Section  
 34, T151N, R94W, 5th P.M., McKenzie County, North  
 Dakota.



- LEGEND:**
- └─┘ = 90° SYMBOL
  - = PROPOSED WELL HEAD.
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  - △ = SECTION CORNERS RE- ESTABLISHED.  
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[derived from: N.G.S. O.P.U.S. Solution REF FRAME: NAD\_83(CORS86)(EPOCH:2002.0000)]

NAD 83 (TARGET BOTTOM HOLE) LATITUDE = 47°49'09.64" (47.819344) LONGITUDE = 102°41'47.00" (102.696389)	NAD 83 (SURFACE LOCATION) LATITUDE = 47°50'53.80" (47.848278) LONGITUDE = 102°41'35.19" (102.693108)
NAD 27 (TARGET BOTTOM HOLE) LATITUDE = 47°49'09.59" (47.819331) LONGITUDE = 102°41'45.32" (102.695922)	NAD 27 (SURFACE LOCATION) LATITUDE = 47°50'53.75" (47.848264) LONGITUDE = 102°41'33.51" (102.692842)

SCALE 1" = 1000'	DATE SURVEYED: 10-10-11	DATE DRAWN: 12-01-11
PARTY G.R. D.F. M.D.	REFERENCES G.L.O. PLAT	
WEATHER COOL	FILE PETRO-HUNT, L.L.C.	

99.00' (G.L.O.)

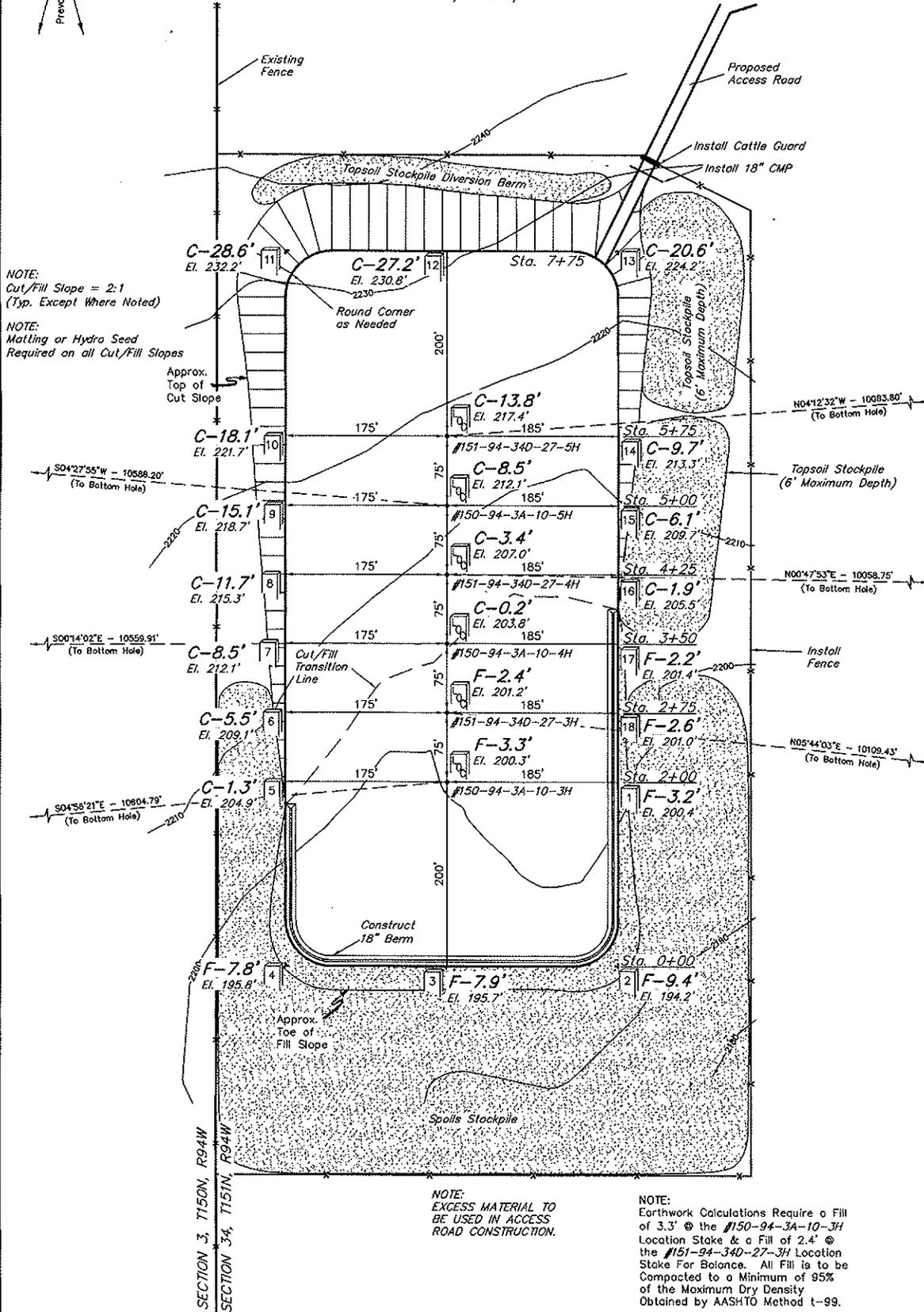
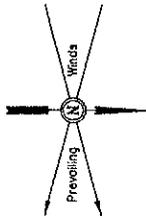
PETRO-HUNT, L.L.C.

PAD LAYOUT FOR

FORT BERTHOLD #151-94-34D-27-3H,  
 #151-94-34D-27-4H, #151-94-34D-27-5H,  
 #150-94-3A-10-3H, #150-94-3A-10-4H & #150-94-3A-10-5H  
 SECTION 34, T151N, R94W, 5TH P.M.  
 SW 1/4 SE 1/4

FIGURE #1

SCALE: 1" = 100'  
 DATE: 12-01-11  
 DRAWN BY: M.D.



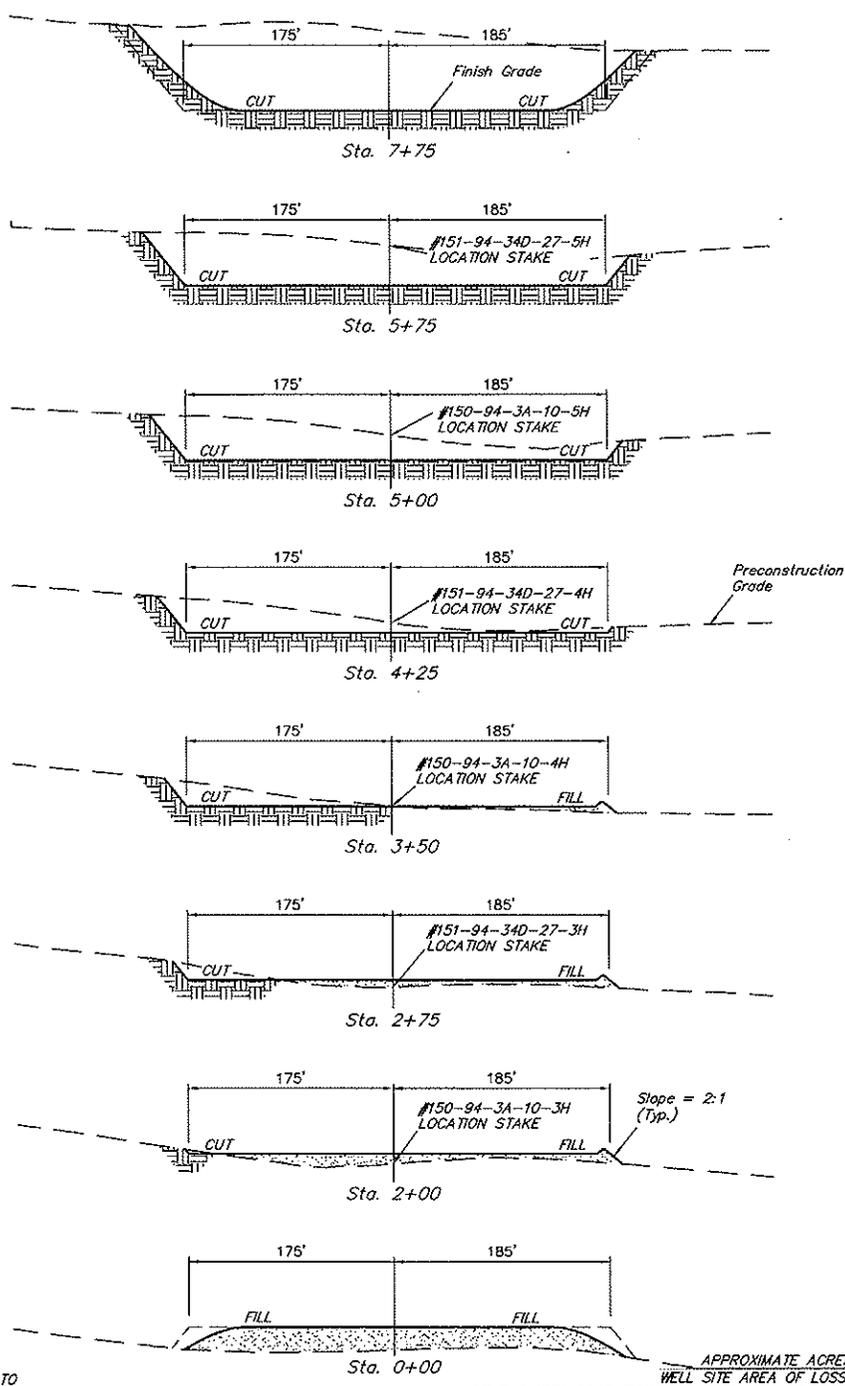
Elev. Ungraded Ground At #151-94-3A-10-3H Loc. Stake = 2200.3'  
 FINISHED GRADE ELEV. AT #151-94-3A-10-3H LOC. STAKE = 2203.6'

X-Section  
Scale  
1" = 100'

DATE: 12-01-11  
DRAWN BY: M.D.

PETRO-HUNT, L.L.C.  
TYPICAL CROSS SECTIONS FOR  
FORT BERTHOLD #151-94-34D-27-3H,  
#151-94-34D-27-4H, #151-94-34D-27-5H,  
#150-94-3A-10-3H, #150-94-3A-10-4H & #150-94-3A-10-5H  
SECTION 34, T151N, R94W, 5TH P.M.  
SW 1/4 SE 1/4

FIGURE #2



NOTE:  
EXCESS MATERIAL TO  
BE USED IN ACCESS  
ROAD CONSTRUCTION.

\* NOTE:  
FILL QUANTITY INCLUDES  
30% FOR COMPACTION

APPROXIMATE YARDAGES

(6") Topsoil Stripping	= 6,500 Cu. Yds.
Remaining Location	= 91,110 Cu. Yds.
<b>TOTAL CUT</b>	<b>= 97,610 CU. YDS.</b>
<b>FILL</b>	<b>= 27,210 CU. YDS.</b>

EXCESS MATERIAL	= 70,400 Cu. Yds.
Topsoil	= 6,500 Cu. Yds.
<b>EXCESS UNBALANCE</b>	<b>= 63,900 Cu. Yds.</b>
(After Interim Rehabilitation)	

APPROXIMATE ACREAGES

WELL SITE AREA OF LOSS	= ± 14.622 ACRES
ALLOTMENT 1774 ROAD RIGHT-OF-WAY AREA OF LOSS	= ± 1.581 ACRES
ALLOTMENT 13081-A ROAD RIGHT-OF-WAY AREA OF LOSS	= ± 3.468 ACRES
ALLOTMENT 3081 ROAD RIGHT-OF-WAY AREA OF LOSS	= ± 3.029 ACRES
MEGHAN WILKINSON ROAD RIGHT-OF-WAY AREA OF LOSS	= ± 3.235 ACRES
DEBORAH BAKLENKO ROAD RIGHT-OF-WAY AREA OF LOSS	= ± 0.026 ACRES
THOMAS WILKINSON ROAD RIGHT-OF-WAY AREA OF LOSS	= ± 0.721 ACRES
<b>TOTAL ROAD RIGHT-OF-WAY AREA OF LOSS</b>	<b>= ± 12.059 ACRES</b>
<b>TOTAL</b>	<b>= ± 26.681 ACRES</b>

TOTAL NUMBER OF C.M.P.S. TO  
BE UPGRADED OR INSTALLED = 7

TOTAL NUMBER OF CATTLE GUARDS  
TO BE UPGRADED OR INSTALLED = 3

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PETRO-HUNT, L.L.C.

SITE QUANTITIES FOR

FORT BERTHOLD #151-94-34D-27-3H,  
#151-94-34D-27-4H, #151-94-34D-27-5H,  
#150-94-3A-10-3H, #150-94-3A-10-4H & #150-94-3A-10-5H  
SECTION 34, T151N, R94W, 5TH P.M.  
SW 1/4 SE 1/4

FIGURE #3

SCALE: NONE  
DATE: 12-01-11  
DRAWN BY: M.D.

Elev. Ungraded Ground At #151-94-3A-10-3H Loc. Stake = 2200.3'  
FINISHED GRADE ELEV. AT #151-94-3A-10-3H LOC. STAKE = 2203.6'

APPROXIMATE YARDAGES

(6") Topsoil Stripping = 6,500 Cu. Yds.  
Remaining Location = 91,110 Cu. Yds.

TOTAL CUT = 97,610 CU. YDS.  
FILL = 27,210 CU. YDS.

(FILL QUANTITY INCLUDES  
30% FOR COMPACTION)

EXCESS MATERIAL = 70,400 Cu. Yds.  
Topsoil = 6,500 Cu. Yds.

EXCESS UNBALANCE = 63,900 Cu. Yds.  
(After Interim Rehabilitation)

APPROXIMATE ACREAGES

DISTURBED AREA FROM PAD = ± 13.336 ACRES  
TOTAL = ± 13.336 ACRES

WELL SITE AREA OF LOSS (FENCED AREA) = ± 14.622 ACRES  
ALLOTMENT 1774 ROAD RIGHT-OF-WAY AREA OF LOSS = ± 1.581 ACRES  
ALLOTMENT 13081-A ROAD RIGHT-OF-WAY AREA OF LOSS = ± 3.468 ACRES  
ALLOTMENT 3081 ROAD RIGHT-OF-WAY AREA OF LOSS = ± 3.029 ACRES  
MEGHAN WILKINSON ROAD RIGHT-OF-WAY AREA OF LOSS = ± 3.235 ACRES  
DEBORAH BAKLENKO ROAD RIGHT-OF-WAY AREA OF LOSS = ± 0.026 ACRES  
THOMAS WILKINSON ROAD RIGHT-OF-WAY AREA OF LOSS = ± 0.721 ACRES  
TOTAL ROAD RIGHT-OF-WAY AREA OF LOSS = ± 12.059 ACRES  
TOTAL = ± 26.681 ACRES

\* NOTE:

Cut/Fill Slope = 2:1 (Typ. Except Where Noted)

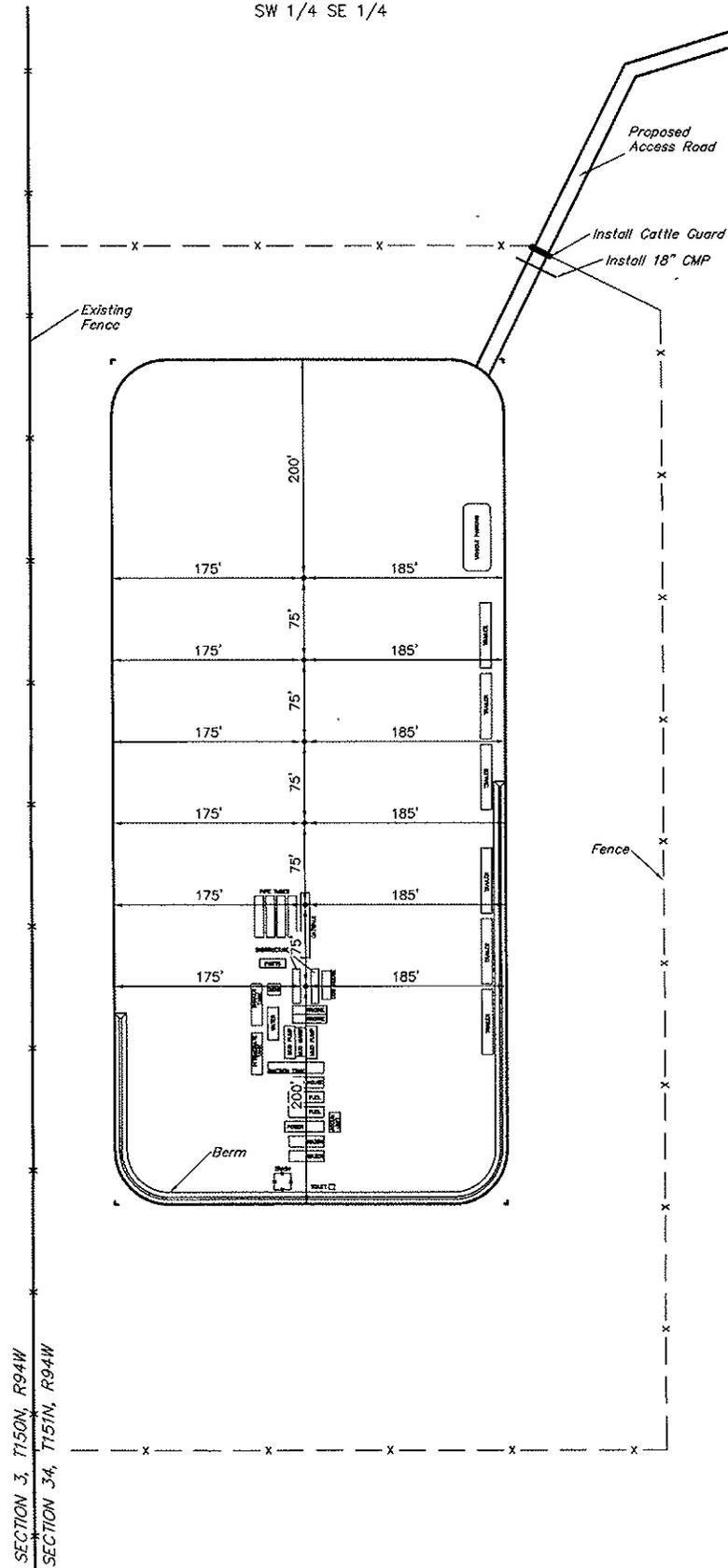
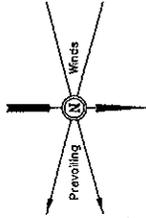
PETRO-HUNT, L.L.C.

RIG LAYOUT FOR

FORT BERTHOLD #151-94-34D-27-3H,  
#151-94-34D-27-4H, #151-94-34D-27-5H,  
#150-94-3A-10-3H, #150-94-3A-10-4H & #150-94-3A-10-5H  
SECTION 34, T151N, R94W, 5TH P.M.  
SW 1/4 SE 1/4

FIGURE #4

SCALE: 1" = 100'  
DATE: 12-01-11  
DRAWN BY: M.D.



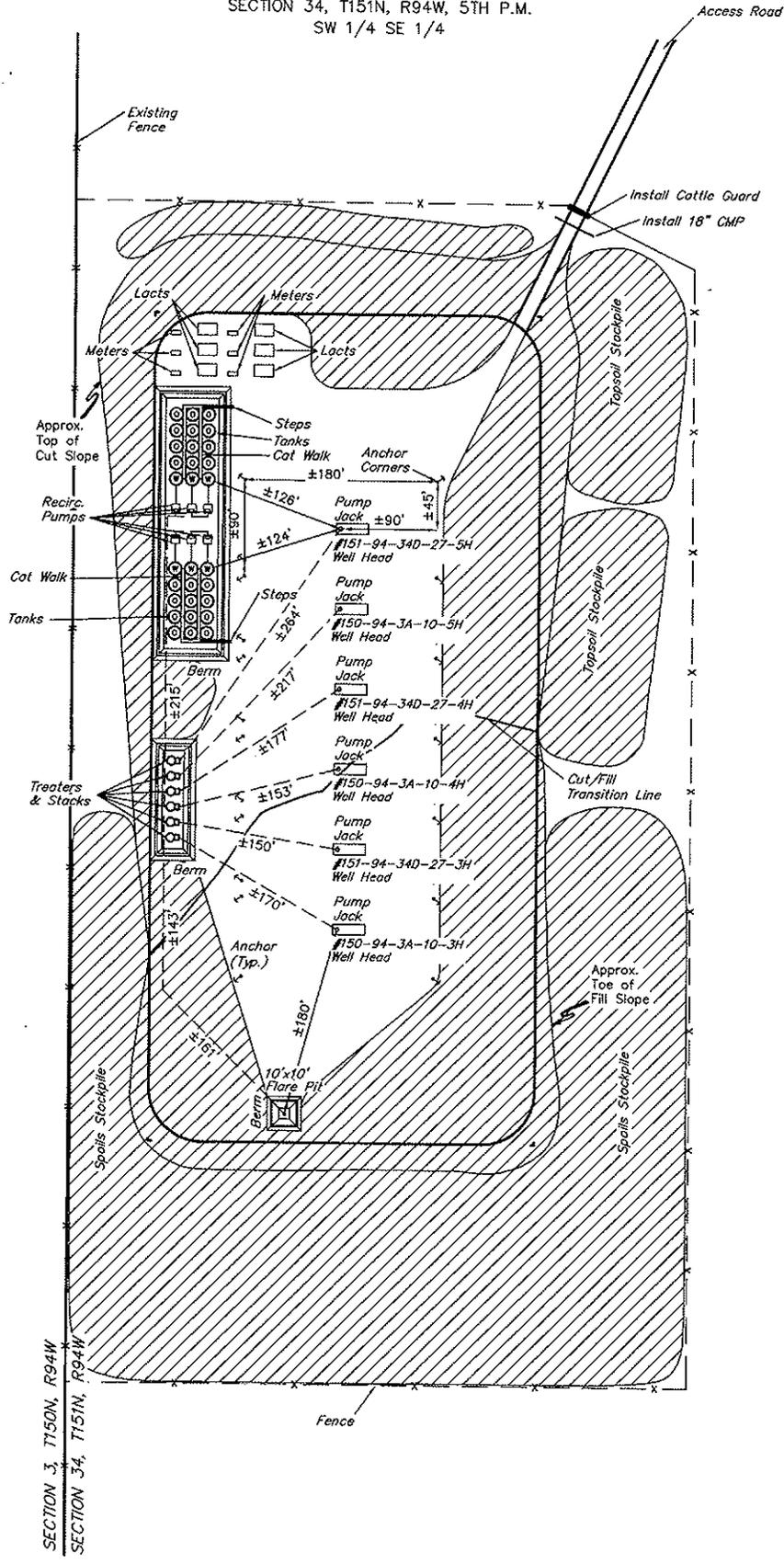
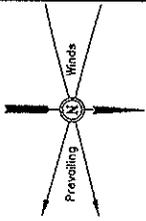
PETRO-HUNT, L.L.C.

PRODUCTION FACILITY LAYOUT FOR

FORT BERTHOLD #151-94-340-27-3H,  
 #151-94-340-27-4H, #151-94-340-27-5H,  
 #150-94-3A-10-3H, #150-94-3A-10-4H & #150-94-3A-10-5H  
 SECTION 34, T151N, R94W, 5TH P.M.  
 SW 1/4 SE 1/4

FIGURE #5

SCALE: 1" = 100'  
 DATE: 12-01-11  
 DRAWN BY: M.D.



SECTION 3, T150N, R94W  
 SECTION 34, T151N, R94W

INTERIM RECLAMATION

APPROXIMATE ACREAGES  
 UN-RECLAIMED = ± 3.825 ACRES

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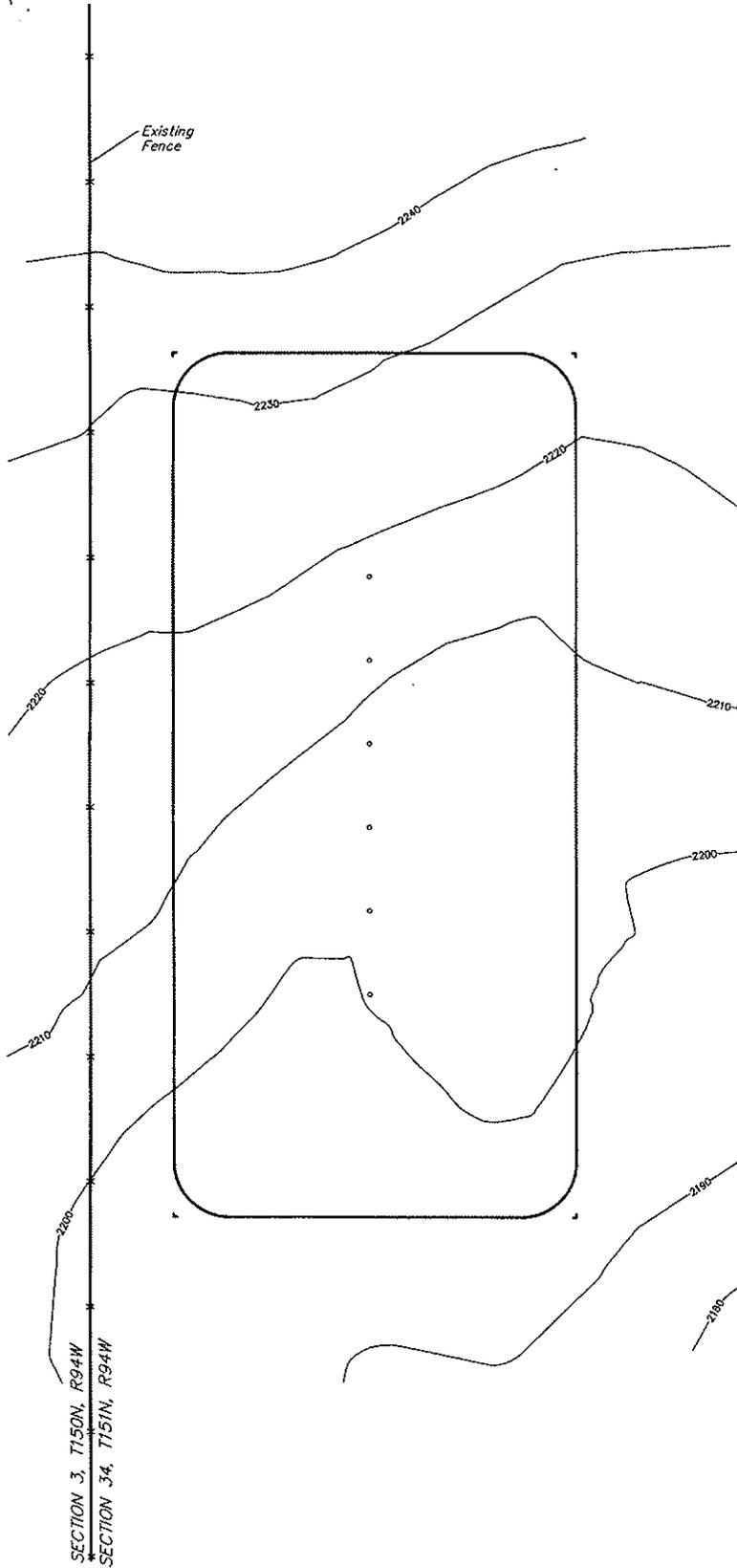
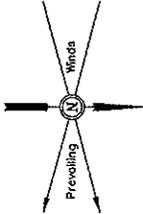
PETRO-HUNT, L.L.C.

FINAL RECLAMATION FOR

FORT BERTHOLD #151-94-34D-27-3H,  
#151-94-34D-27-4H, #151-94-34D-27-5H,  
#150-94-3A-10-3H, #150-94-3A-10-4H & #150-94-3A-10-5H  
SECTION 34, T151N, R94W, 5TH P.M.  
SW 1/4 SE 1/4

FIGURE #6

SCALE: 1" = 100'  
DATE: 12-01-11  
DRAWN BY: M.D.



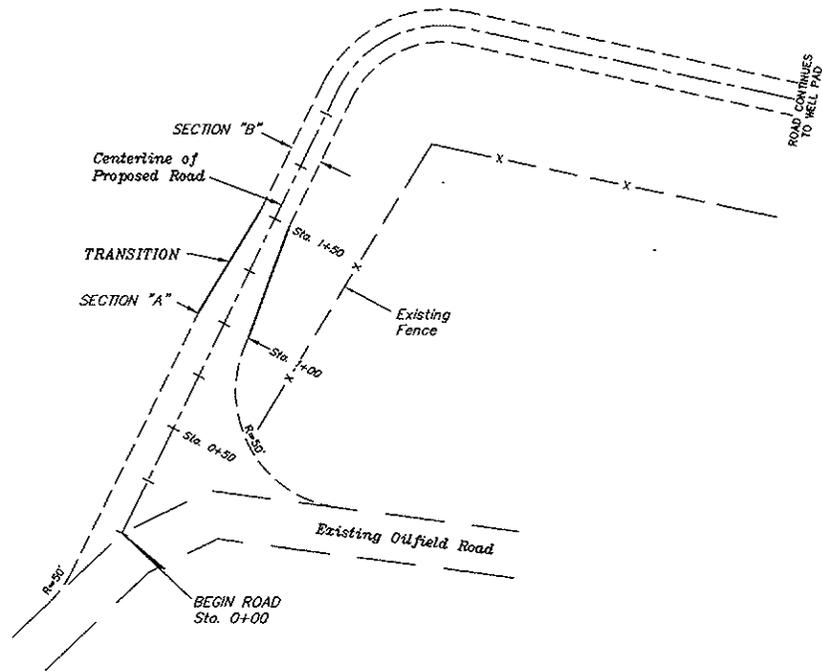
PETRO-HUNT, L.L.C.

TYPICAL ROAD ACCESS FOR

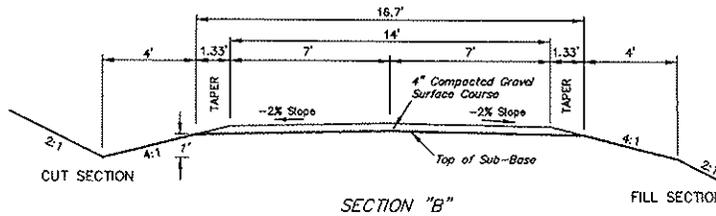
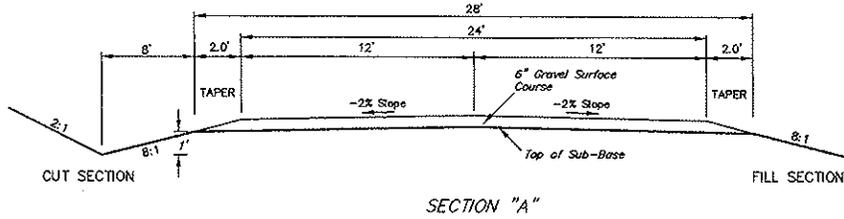
FORT BERTHOLD #151-94-34D-27-3H,  
 #151-94-34D-27-4H, #151-94-34D-27-5H,  
 #150-94-3A-10-3H, #150-94-3A-10-4H & #150-94-3A-10-5H  
 SECTION 34, T151N, R94W, 5TH P.M.  
 SW 1/4 SE 1/4

FIGURE #7

SCALE: NONE  
 DATE: 12-01-11  
 DRAWN BY: M.D.



NOTE:  
 ACCESS CENTERLINE PROFILE MUST SLOPE  
 AWAY FROM ROAD WITH A MAXIMUM OF 3%  
 FOR 25'. ALSO, MAXIMUM GRADE OF 8% IS  
 REQUIRED BEYOND 25' OF ROAD.



PETRO-HUNT, L.L.C.  
FORT BERTHOLD #151-94-34D-27-3H,  
#151-94-34D-27-4H, #151-94-34D-27-5H,  
#151-94-3A-10-3H, #151-94-3A-10-4H  
& #151-94-3A-10-5H  
ROAD & UTILITIES RIGHT-OF-WAY  
SECTIONS 27, 28 & 34, T151N, R94W, 5th P.M.

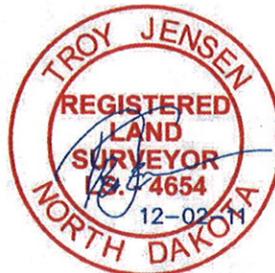
TOTAL ROAD & UTILITIES RIGHT-OF-WAY ON TRIBAL LANDS

TOTAL LENGTH OF RIGHT-OF-WAY IS 3518.30' OR 0.666 MILES. WIDTH OF RIGHT-OF-WAY IS 100' (50' PERPENDICULAR ON EACH SIDE OF THE CENTERLINE). CONTAINS 8.077 ACRES MORE OR LESS.

ENGINEER'S AFFIDAVIT

STATE OF MONTANA }  
COUNTY OF RICHLAND } SS

TROY JENSEN, BEING FIRST DULY SWORN DEPOSES AND STATES THAT HE IS THE REGISTERED LAND SURVEYOR, FOR PETRO-HUNT, L.L.C., THAT THESE SURVEYS WERE MADE BY HIM (OR UNDER HIS SUPERVISION): THAT HE HAS EXAMINED THE FIELD NOTES OF THE SURVEYS OF THE ROAD AND UTILITIES RIGHT-OF-WAY AS DESCRIBED AND SHOWN ON THIS MAP, THAT THIS MAP WAS PREPARED UNDER HIS DIRECTION FROM SAID FIELD NOTES; AND THAT SAID RIGHT-OF-WAY, 0.666 MILES IN LENGTH BEGINNING AND ENDING AS SHOWN ON THIS MAP IS ACCURATELY REPRESENTED.



*Troy Jensen*  
REGISTERED LAND SURVEYOR  
REGISTRATION NO. 4654  
STATE OF NORTH DAKOTA

APPLICANT'S CERTIFICATE

I, \_\_\_\_\_, DO HEREBY CERTIFY THAT I AM THE AGENT FOR PETRO-HUNT, L.L.C., HEREINAFTER DESIGNATED THE APPLICANT; THAT TROY JENSEN WHO SUBSCRIBED TO THE FOREGOING AFFIDAVIT, IS EMPLOYED BY THE APPLICANT AS A LAND SURVEYOR AND THAT HE WAS DIRECTED BY THE APPLICANT TO SURVEY THE LOCATION OF THIS ROAD AND UTILITIES RIGHT-OF-WAY, 0.666 MILES IN LENGTH BEGINNING AT STA. 0+00 AND ENDING AT P.O.S.L. 35+18.30, THAT SAID ROAD AND UTILITIES 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 THE INTERIOR OR HIS DULY AUTHORIZED REPRESENTATIVE AS PART OF THE APPLICATION FOR SAID RIGHT-OF-WAY TO BE GRANTED THE APPLICANT, ITS SUCCESSORS AND ASSIGNS, WITH THE RIGHT TO CONSTRUCT, MAINTAIN, AND REPAIR IMPROVEMENTS, THEREON AND THEREOVER, FOR SUCH PURPOSES, AND WITH THE FURTHER RIGHT IN THE APPLICANT, ITS SUCCESSORS AND ASSIGNS TO TRANSFER THIS RIGHT-OF-WAY BY ASSIGNMENT, GRANT, OR OTHERWISE.

\_\_\_\_\_  
APPLICANT

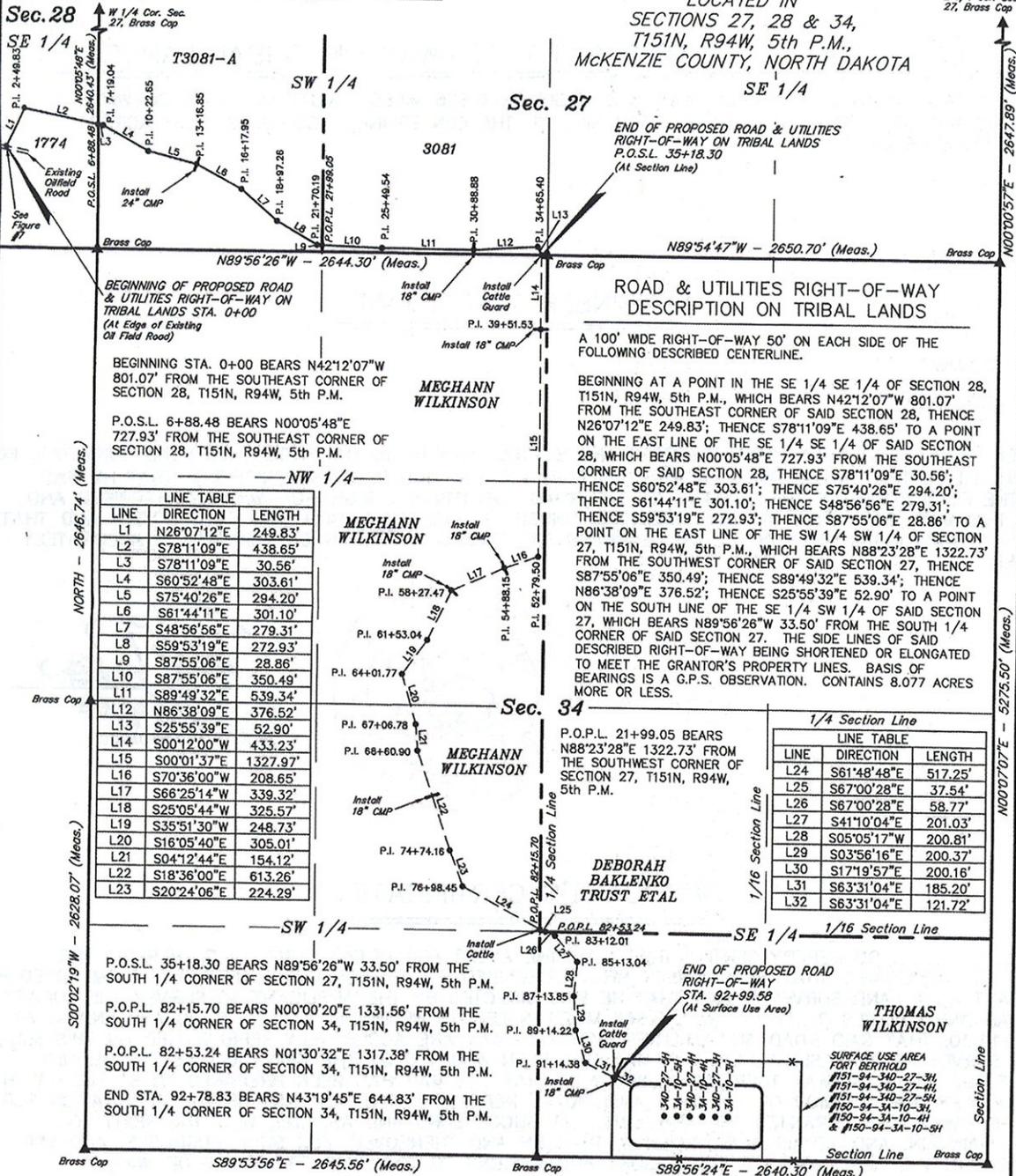
\_\_\_\_\_  
TITLE

RIGHT-OF-WAY LENGTHS			
PROPERTY OWNER	FEET	ACRES	RODS
1774	688.48	1.581	41.73
T3081-A	1510.57	3.468	91.55
3081	1319.25	3.029	79.95
TOTAL ON TRIBAL LANDS	3518.30	8.077	213.23
MEGHANN WILKINSON (30' ROW)	4697.40	3.235	284.69
DEBORAH BAKLENKO (30' ROW)	37.54	0.026	2.28
THOMAS WILKINSON (30' ROW)	1046.34	0.721	63.41
TOTAL ROAD RIGHT-OF-WAY	9299.58	12.059	563.61

**PETRO-HUNT, L.L.C.**  
**ROAD & UTILITIES RIGHT-OF-WAY ON**  
**TRIBAL & FEE LANDS**

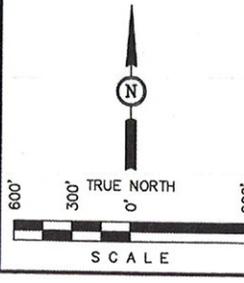
(For FORT BERTHOLD #151-94-34D-27-3H,  
 #151-94-34D-27-4H, #151-94-34D-27-5H,  
 #150-94-3A-10-3H, #150-94-3A-10-4H  
 & #150-94-3A-10-5H)

LOCATED IN  
 SECTIONS 27, 28 & 34,  
 T151N, R94W, 5th P.M.,  
 MCKENZIE COUNTY, NORTH DAKOTA  
 SE 1/4



LINE	DIRECTION	LENGTH
L1	N26°07'12"E	249.83'
L2	S78°11'09"E	438.65'
L3	S78°11'09"E	30.56'
L4	S60°52'48"E	303.61'
L5	S75°40'26"E	294.20'
L6	S61°44'11"E	301.10'
L7	S48°56'56"E	279.31'
L8	S59°53'19"E	272.93'
L9	S87°55'06"E	28.86'
L10	S87°55'06"E	350.49'
L11	S89°49'32"E	539.34'
L12	N86°38'09"E	376.52'
L13	S25°55'39"E	52.90'
L14	S00°12'00"W	433.23'
L15	S00°01'37"E	1327.97'
L16	S70°36'00"W	208.65'
L17	S66°25'14"W	339.32'
L18	S25°05'44"W	325.57'
L19	S35°51'30"W	248.73'
L20	S16°05'40"E	305.01'
L21	S04°12'44"E	154.12'
L22	S18°36'00"E	613.26'
L23	S20°24'06"E	224.29'

1/4 Section Line		
LINE	DIRECTION	LENGTH
L24	S61°48'48"E	517.25'
L25	S67°00'28"E	37.54'
L26	S67°00'28"E	58.77'
L27	S41°10'04"E	201.03'
L28	S05°05'17"W	200.81'
L29	S03°56'16"E	200.37'
L30	S17°19'57"E	200.16'
L31	S63°31'04"E	185.20'
L32	S63°31'04"E	121.72'



**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.



*Troy Jensen*  
 REGISTERED LAND SURVEYOR  
 REGISTRATION NO. 4654  
 STATE OF NORTH DAKOTA

<b>UINTAH ENGINEERING &amp; LAND SURVEYING</b> 85 SOUTH - 200 EAST • (435) 789-1017 VERNAL, UTAH - 84078	
SCALE 1" = 600'	DATE 12-02-11
PARTY G.R. D.F. M.D.	REFERENCES G.L.O. PLAT
WEATHER COOL	FILE 5 1 3 3 0

▲ = SECTION CORNERS LOCATED.

PETRO-HUNT, L.L.C.

FORT BERTHOLD #151-94-34D-27-3H, #151-94-34D-27-4H,  
#151-94-34D-27-5H, #150-94-3A-10-3H, #150-94-3A-10-4H &  
#150-94-3A-10-5H

SECTION 34, T151N, R94W, 5<sup>th</sup> P.M.

PROCEED IN A WESTERLY DIRECTION FROM MANDAREE, NORTH DAKOTA ALONG BIA 12 APPROXIMATELY 1.3 MILES TO THE JUNCTION OF THIS ROAD AND HIGHWAY 22 TO THE NORTHWEST; TURN RIGHT AND PROCEED IN A NORTHWESTERLY, THEN NORTHERLY, THEN NORTHWESTERLY DIRECTION APPROXIMATELY 9.2 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHEAST; TURN RIGHT AND PROCEED IN A NORTHEASTERLY DIRECTION APPROXIMATELY 1.0 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHEAST; TURN RIGHT AND PROCEED IN A SOUTHEASTERLY DIRECTION APPROXIMATELY 0.2 MILES TO THE BEGINNING OF THE PROPOSED ACCESS ROAD TO THE NORTHEAST; FOLLOW ROAD FLAGS IN A NORTHEASTERLY, THEN SOUTHEASTERLY, THEN SOUTHERLY, THEN SOUTHWESTERLY, THEN SOUTHEASTERLY DIRECTION APPROXIMATELY 9,421' TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM MANDAREE, NORTH DAKOTA TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 13.5 MILES.



**PROPOSED LOCATION:**  
 FORT BERTHOLD #151-94-34D-27-3H,  
 #151-94-34D-27-4H, #151-94-34D-27-5H,  
 #150-94-3A-10-3H, #150-94-3A-10-4H &  
 #150-94-3A-10-5H

**LEGEND:**

PROPOSED LOCATION



**PETRO-HUNT, L.L.C.**

FORT BERTHOLD #151-94-34D-27-3H,  
 #151-94-34D-27-4H, #151-94-34D-27-5H,  
 #150-94-3A-10-3H, #150-94-3A-10-4H & #150-94-3A-10-5H  
 SECTION 34, T151N, R94W, 5th P.M.  
 SW 1/4 SE 1/4

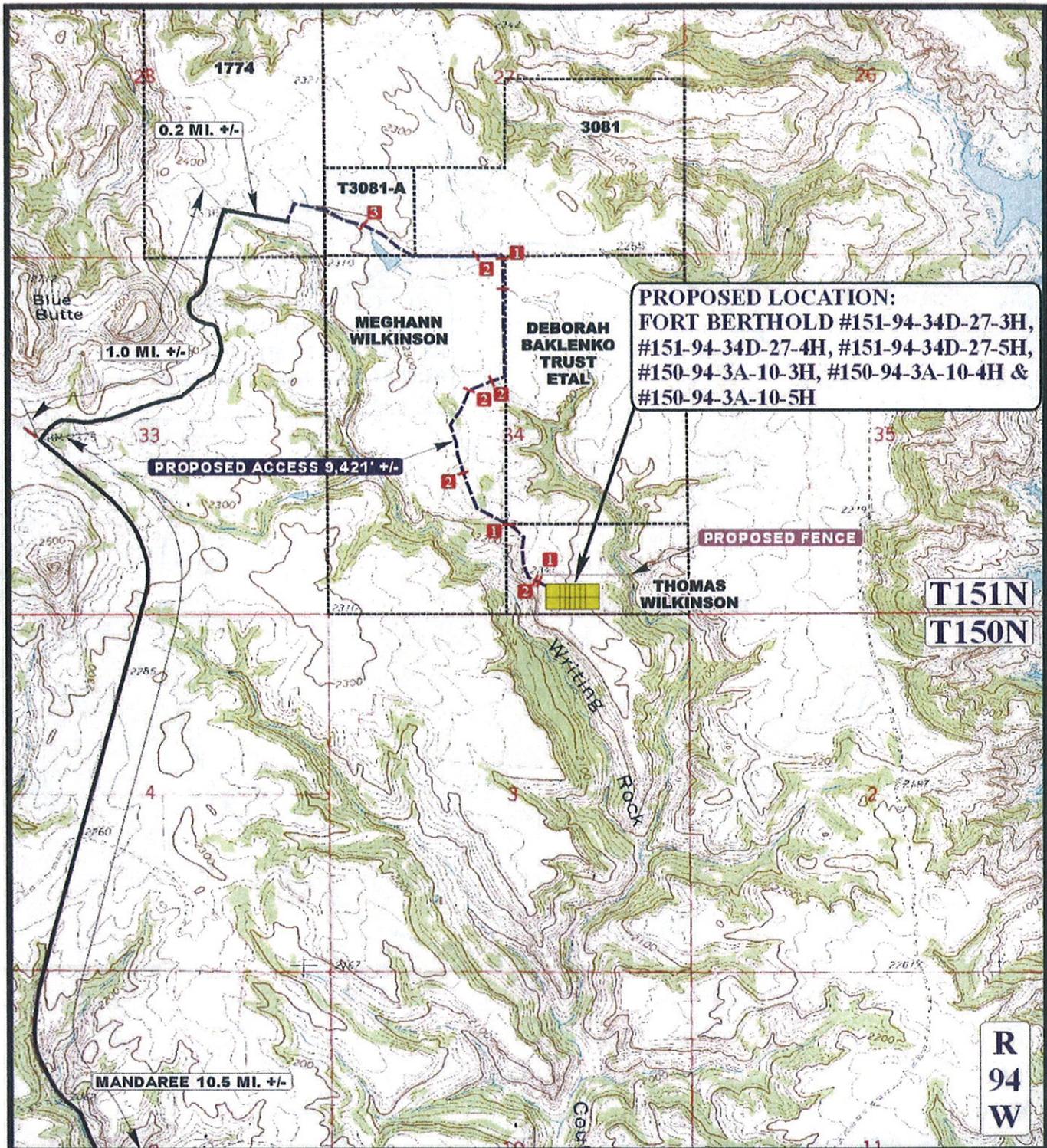


**Utah Engineering & Land Surveying**  
 85 South 200 East Vernal Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813

**ACCESS ROAD**  
**MAP**  
 SCALE: 1:100,000 DRAWN BY: J.L.G. REVISED: 00-00-00

**12 08 11**  
 MONTH DAY YEAR





**PROPOSED LOCATION:**  
 FORT BERTHOLD #151-94-34D-27-3H,  
 #151-94-34D-27-4H, #151-94-34D-27-5H,  
 #150-94-3A-10-3H, #150-94-3A-10-4H &  
 #150-94-3A-10-5H

**PROPOSED ACCESS 9,421' +/-**

**PROPOSED FENCE**

**T151N**

**T150N**

**R  
94  
W**

**LEGEND:**

- EXISTING ROAD
- - - PROPOSED ACCESS
- - - PROPOSED FENCE
- 1 INSTALL CATTLE GUARD
- 2 18" CMP REQUIRED
- 3 24" CMP REQUIRED

**PETRO-HUNT, L.L.C.**

FORT BERTHOLD #151-94-34D-27-3H,  
 #151-94-34D-27-4H, #151-94-34D-27-5H,  
 #150-94-3A-10-3H, #150-94-3A-10-4H & #150-94-3A-10-5H  
 SECTION 34, T151N, R94W, 5th P.M.  
 SW 1/4 SE 1/4



**Utah Engineering & Land Surveying**  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813

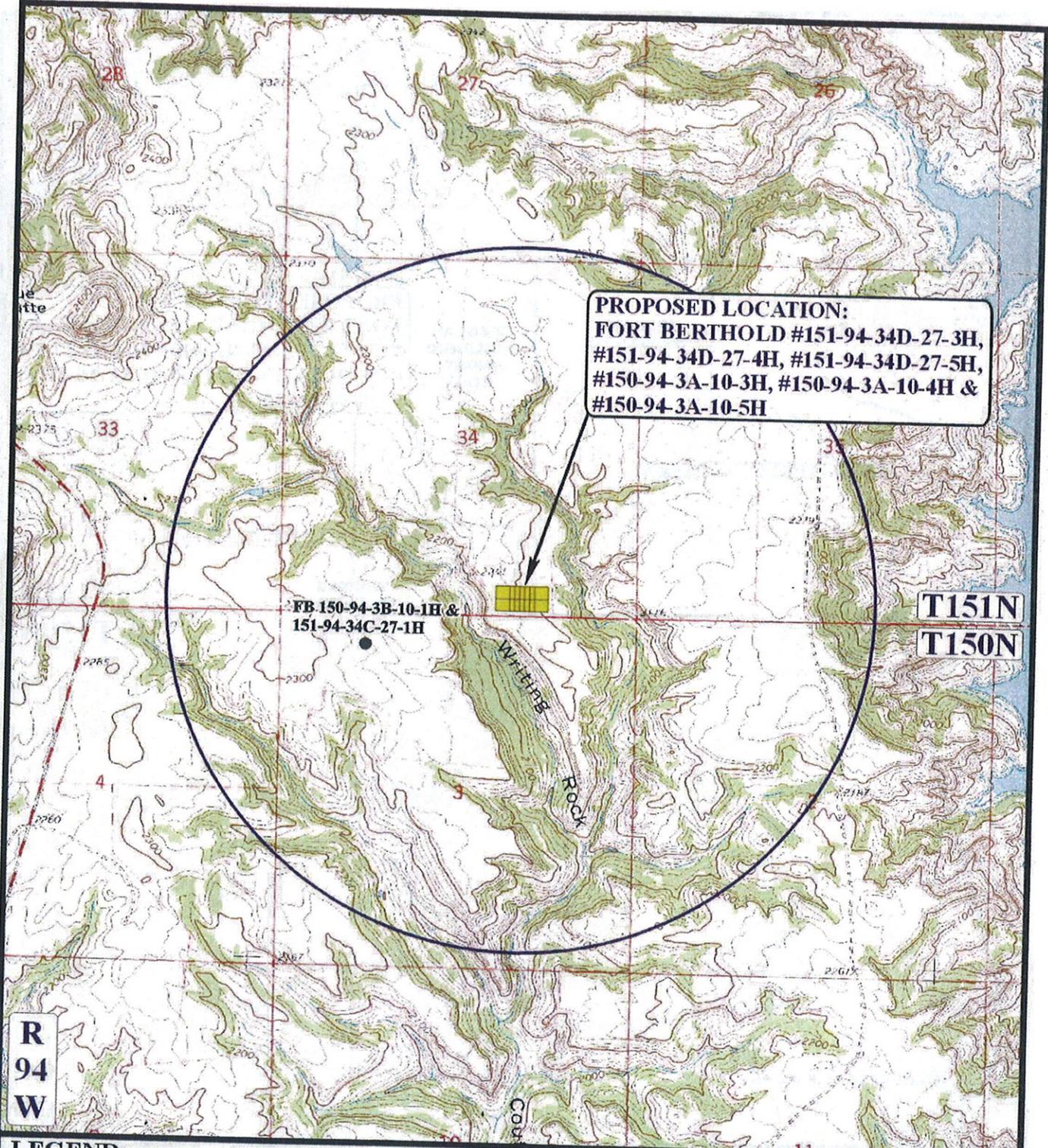


**ACCESS ROAD  
MAP**

**12 08 11**  
 MONTH DAY YEAR



SCALE: 1" = 2000' DRAWN BY: J.L.G. REVISED: 00-00-00



**PROPOSED LOCATION:**  
**FORT BERTHOLD #151-94-34D-27-3H,**  
**#151-94-34D-27-4H, #151-94-34D-27-5H,**  
**#150-94-3A-10-3H, #150-94-3A-10-4H &**  
**#150-94-3A-10-5H**

**FB 150-94-3B-10-1H &**  
**151-94-34C-27-1H**

**T151N**  
**T150N**

**R**  
**94**  
**W**

- LEGEND:**
- DISPOSAL WELLS
  - PRODUCING WELLS
  - SHUT IN WELLS
  - WATER WELLS
  - ABANDONED WELLS
  - TEMPORARILY ABANDONED

**PETRO-HUNT, L.L.C.**

FORT BERTHOLD #151-94-34D-27-3H,  
 #151-94-34D-27-4H, #151-94-34D-27-5H,  
 #150-94-3A-10-3H, #150-94-3A-10-4H & #150-94-3A-10-5H  
 SECTION 34, T151N, R94W, 5th P.M.  
 SW 1/4 SE 1/4

**U&L S**  
**Uintah Engineering & Land Surveying**  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813



**TOPOGRAPHIC**  
**MAP**  
 SCALE: 1" = 2000' DRAWN BY: J.L.G. REVISED: 00-00-00

**12 08 11**  
 MONTH DAY YEAR



# **Notice of Availability and Appeal Rights**

Petro-Hunt, LLC: Access Road Connecting the Fort Berthold #151-94-34D-27-3H, -4H, -5H/Fort Berthold #150-94-3A-10-3H, -4H, -5H Well Pad to the Existing Enerplus Miles 151-49-28D-21H/Sherwood 28-44H Access Road

**The Bureau of Indian Affairs (BIA) is planning to issue administrative approvals for an Access Road Connecting the Fort Berthold #151-94-34D-27-3H, -4H, -5H/Fort Berthold #150-94-3A-10-3H, -4H, -5H Well Pad to the Existing Enerplus Miles 151-49-28D-21H/Sherwood 28-44H Access Road on the Fort Berthold Reservation as shown on the attached map. Construction by Petro-Hunt 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 September 29, 2012, by contacting:**

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

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

Project locations.



Fort Berthold #151-94-34D-27-3H, -4H, -5H  
 Fort Berthold #150-94-3A-10-3H, -4H, -5H

- \* Proposed Well Head
- Proposed Access Road (Trust Land)
- Proposed Access Road (Fee Land)
- Existing Road
- Proposed Well Pad
- Proposed Fence
- Survey Area
- Fee Land
- Trust Land
- Township/Range Boundary
- Section Boundary

**SWCA**  
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Kilometers  
 0 0.4 0.8

Miles  
 0 0.2 0.4

Base Map: Aerial Imagery  
 Source: esri ArcGIS service  
 Quadrangle: Sanish SW, (1970)  
 T. 151N & R. 94W  
 McKenzie County, North Dakota



Scale: 1:18,000 NAD 1983 UTM Zone 13N