



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

SEP 21 2011

MEMORANDUM

TO: Superintendent, Fort Berthold Agency

FROM: Regional Director, Great Plains Region 

SUBJECT: Supplemental to Environmental Assessment

A Categorical Exclusion has been completed in compliance with the regulations of the National Environmental Policy Act (NEPA) of 1969, as amended. The proposed Supplemental Categorical Exclusion is for information tiering off of an existing Environmental Assessment for Dakota-3 E & P Company, LLC, and authorizes two additional wells on the Mandan 13-14H well pad. No new surface disturbances will be associated with the proposed action.

All the necessary requirements of the National Environmental Policy Act have been completed. Attached for your files is a copy of the Categorical Exclusion.

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, Three Affiliated Tribes (with attachment)
Elgin Crows Breast, THPO (with attachment)
Derek Enderud, BLM, Dickinson, ND (with attachment)
Todd Hartleben, Carlsonmccain (with attachment)
Jeffrey Hunt, Fort Berthold Agency



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



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MC-208

EXCEPTION CHECKLIST FOR BIA CATEGORICAL EXCLUSIONS

Project: Authorize Two Exploratory Wells on the at the Mandan 13-14H well pad. Additional wells will be named Mandan 13-14HD and Mandan 13-14HB.

Date: September 19, 2011

Nature of Proposed Action: Is to authorize Dakota-3 E&P Company, LLC (D-3 E&P) to drill two horizontal oil and gas wells at an existing well site (Mandan 13-14HD, and Mandan 13-14HB). There will be no additional surface disturbance to the well pad or access road as the result of drilling two additional wells from previous approved location. This document is tiered to an Environmental Assessment: Zenergy Operating Company, LLC, D-3 Adam Good Bear #15-22H, D-3 Mandan #13-14H, D-3 Skunk Creek #1-12H. December, 2009

Exclusion category and number: 516 DM 10.5 F (1)

Evaluation of Exceptions to use of Categorical Exclusion:

1. This action would have significant adverse effects on public health or safety. No X Yes _____
2. This action would have an adverse effect on unique geographical features, such as wetlands, wild or scenic rivers, refuges, floodplains, rivers placed on nationwide river inventory, or prime or unique farmlands. No X Yes _____
3. The action will have highly controversial environmental effects. No X Yes _____
4. The action will have highly uncertain environmental effects or involve unique or unknown environmental risks. No X Yes _____
5. This action will establish a precedent for future actions. No X Yes _____
6. This action is related to other actions with individually insignificant, but cumulatively significant environmental effects. No X Yes _____
7. This action will affect properties listed or eligible for listing in the National Register of Historic Places. No X Yes _____

8. This action will affect a species listed, or proposed to be listed as endangered or threatened. No X Yes _____
9. This action threatens to violate federal, state, local or tribal law or requirements imposed for protection of the environment. No X Yes _____
10. This action will have a disproportionately high and adverse effect on low income or minority populations. No X Yes _____
11. This action will limit access to, and ceremonial use of Indian sacred sites on federal lands by Indian religious practitioners, or significantly adversely affect the physical integrity of such sacred sites. No X Yes _____
12. This action will contribute to the introduction, continued existence, or spread of noxious weeds or non-native invasive species known to occur in the area, or may promote the introduction, growth, or expansion of the range of such species. No X Yes _____

A "yes" to any of the above exceptions will require that an EA be prepared.

NEPA Action - - - CE X EA _____

Preparer's Name and Title: Jeffrey Davis, Environmental Protection Specialist

Regional Archeologist Concurrence with Item 7 Carson M. Munnally

Concur: Jeffrey R. Davis
Regional Office/Agency Environmental Coordinator

Date: 9-19-2011

Concur: Will L. H.
Regional Director/Superintendent

Date: 9-21-11

Notification for the Documentation of NEPA Adequacy (DNA)

Addendum to Environmental Assessment to Authorize Drilling of Two Exploratory Wells at the Mandan 13-14H

U.S. Bureau of Indian Affairs (BIA) Office: Great Plains Regional Office, Division of Environment, Safety, and Cultural Resource Management

Applicant: Dakota-3 E&P Company, LLC

Project Name: Mandan 13-14HB & HD

Purpose and Need of Action: Dakota-3 E&P Company, LLC (D-3 E&P) is proposing to drill two horizontal oil and gas well on the Fort Berthold Indian Reservation to evaluate and possibly develop the commercial potential of natural resources. Developments have been proposed on land held in trust by the United States in Mountrail County, North Dakota. The 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 Dakota-3 E&P to drill two horizontal oil and gas wells at an existing well site.

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.).

Legal Land Descriptions of Proposed Action: Section 13, Township 150 North, Range 93 West, Mountrail County.

Scope of Work for Proposed Action: D-3 E&P is proposing to locate two additional horizontal oil and gas wells on an existing well site (three total). The existing surface hole location will be designated as the Mandan 13-14HC. The surface hole location(s) of the proposed well sites will be drilled approximately 50' and 100' (Mandan 13-14HD, and Mandan 13-14HB, respectively) north of the existing surface hole. The existing well pad will not be modified in size or orientation.

The existing well site is the Mandan 13-14H, for which an Environmental Assessment (EA) was prepared in accordance with the National Environmental Policy Act (NEPA). A Finding of No Significant Impact (FONSI) was issued for the site on Jan. 21, 2010. Resource surveys of the existing site were performed as recorded in the EA. Since the physical dimensions of the pad will not be modified, no additional resource surveys have been conducted at the site. D-3 E&P will comply with the mitigation measures specified in the original EA. All other conditions and findings of the original EA will remain in effect.

Based on those surveys and the mitigation measures committed to by Dakota-3 E&P, no significant impacts to natural and cultural resources are anticipated. All other conditions and findings of the original EA will remain in effect.

Applicable National Environmental Policy Act (NEPA) Document(s): *Environmental Assessment: Zenergy Operating Company, LLC, D-3 Adam Good Bear #15-22H, D-3 Mandan #13-14H, D-3 Skunk Creek #1-12H.* December, 2009.

NEPA Adequacy Criteria: This document has identified a previously prepared NEPA document, *Environmental Assessment: Zenergy Operating Company, LLC, D-3 Adam Good Bear #15-22H, D-3 Mandan #13-14H, D-3 Skunk Creek #1-12H.* December, 2009, 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.

DAKOTA-3 E&P COMPANY, LLC.
MANDAN #13-14HC, #13-14HD & #13-14HB
 LOCATED IN MOUNTRAIL COUNTY, NORTH DAKOTA
 SECTION 13, T150N, R93W, 5th P.M..



PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: EASTERLY



PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: WESTERLY



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

LOCATION PHOTOS

11 **12** **09**
 MONTH DAY YEAR

PHOTO

TAKEN BY: T.G.

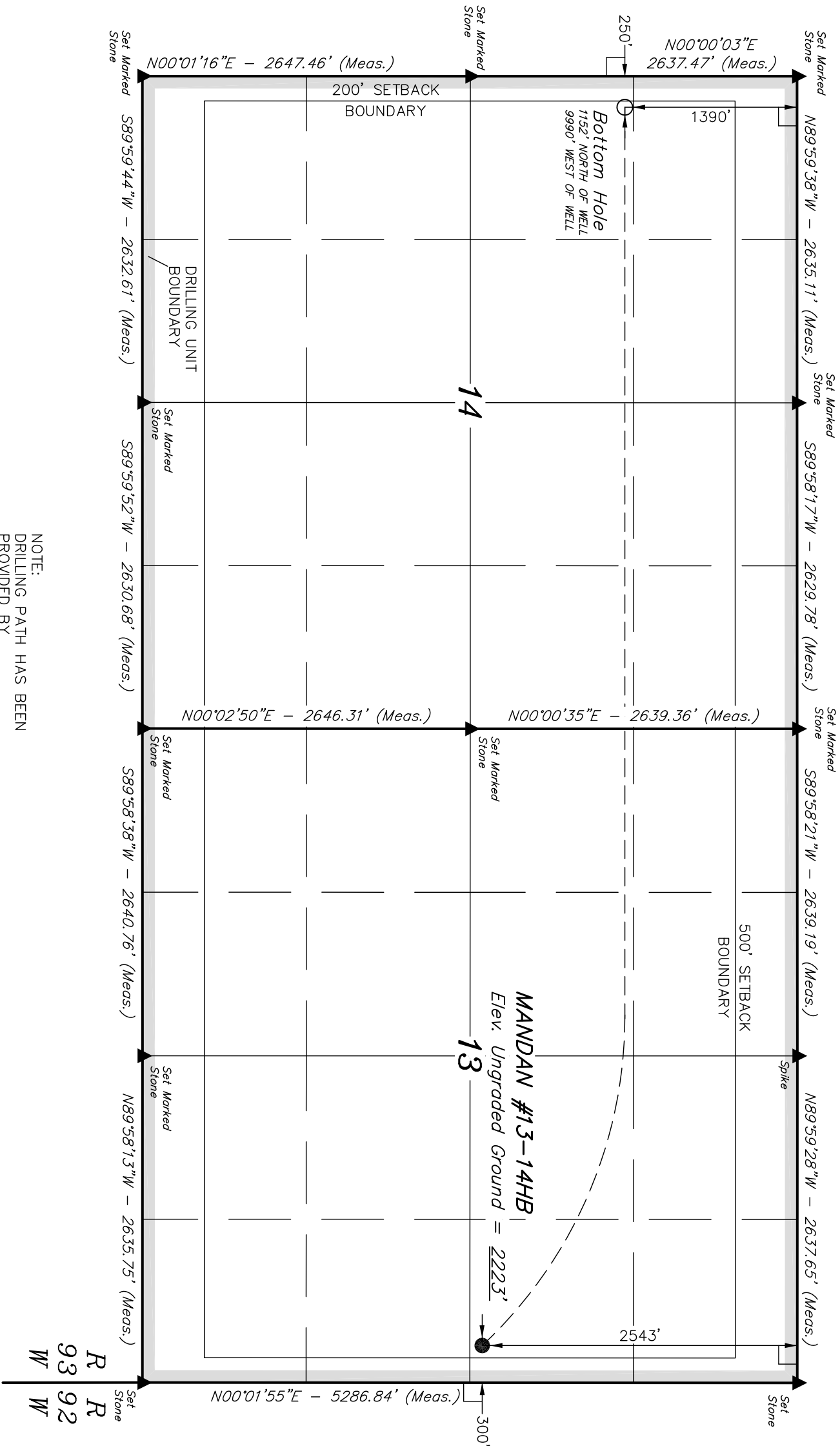
DRAWN BY: J.H.

REV: S.F. 07-13-11

WELL LOCATION PLAT
T150N, R93W, 5th P.M.

DAKOTA-3 E&P COMPANY, LLC

Well location, MANDAN #13-14HB, located as shown in the SE 1/4 NE 1/4 of Section 13, T150N, R93W, 5th P.M., Mountrail County, North Dakota.

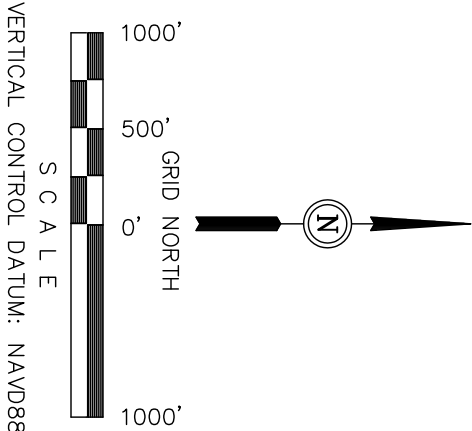


NOTE:
DRILLING PATH HAS BEEN
PROVIDED BY
DAKOTA-3 E&P COMPANY, LLC.

LEGEND:

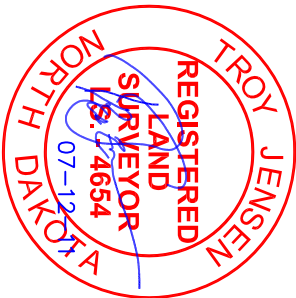
- └─ = 90° SYMBOL
- = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.

[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°48'53.61" (47.814892)	LATITUDE = 47°48'42.21" (47.811725)		
LONGITUDE = 102°33'21.86" (102.556078)	LONGITUDE = 102°30'55.53" (102.515425)		
NAD 27 (TARGET BOTTOM HOLE)	NAD 27 (SURFACE LOCATION)		
LATITUDE = 47°48'53.57" (47.814881)	LATITUDE = 47°48'42.17" (47.811714)		
LONGITUDE = 102°33'20.21" (102.555614)	LONGITUDE = 102°30'53.86" (102.514961)		
NAD 27 UTM 13N (TARGET BOTTOM HOLE)	NAD 27 UTM 13N (SURFACE LOCATION)		
N: 17363165.85 E: 2240782.79	N: 17382329.94 E: 2250803.80		



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.



REGISTERED LAND SURVEYOR
REGISTRATION NO. 4654
STATE OF NORTH DAKOTA

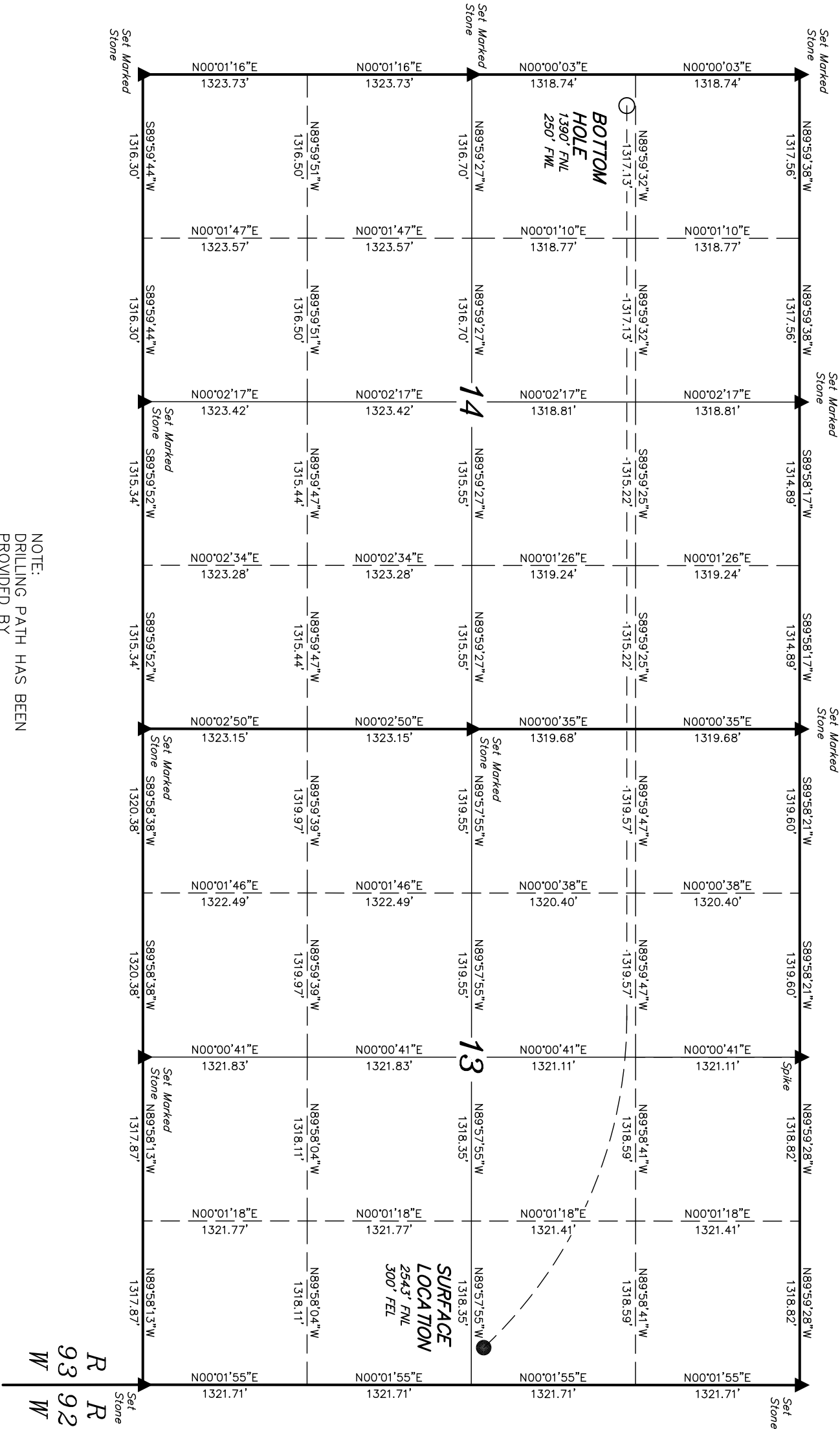
UINTAH ENGINEERING & LAND SURVEYING
85 SOUTH 200 EAST - VERNAL, UTAH 84078
(435) 789-1017

SCALE	1" = 1000'	DATE SURVEYED:	11-10-09	DATE DRAWN:	07-12-11
PARTY	T.G. F.H. D.P.	REFERENCES	G.L.O. PLAT		
WEATHER	COOL	FILE	DAKOTA-3 E&P COMPANY, LLC		

SECTION BREAKDOWN
T150N, R93W, 5th P.M.

DAKOTA-3 E&P COMPANY, LLC

Well location, MANDAN #13-14HB, located as shown in the SE 1/4 NE 1/4 of Section 13, T150N, R93W, 5th P.M., Mountrail County, North Dakota.



NOTE:
DRILLING PATH HAS BEEN
PROVIDED BY
DAKOTA-3 E&P COMPANY, LLC.

LEGEND:

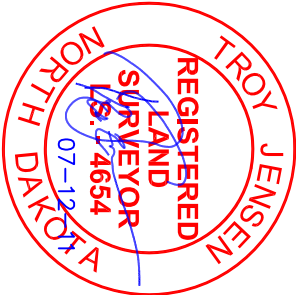
- = 90° SYMBOL
- = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.

[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°48'53.61" (47.814892)		LATITUDE = 47°48'42.21" (47.811725)	
LONGITUDE = 102°33'21.86" (102.556078)		LONGITUDE = 102°30'55.53" (102.515425)	
NAD 27 (TARGET BOTTOM HOLE)		NAD 27 (SURFACE LOCATION)	
LATITUDE = 47°48'53.57" (47.814881)		LATITUDE = 47°48'42.17" (47.811714)	
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NAD 27 UTM 13N (TARGET BOTTOM HOLE)		NAD 27 UTM 13N (SURFACE LOCATION)	
N: 17363165.85 E: 2240782.79		N: 17382329.94 E: 2250803.80	

UTAH ENGINEERING & LAND SURVEYING			
85 SOUTH 200 EAST - VERNAL, UTAH 84078			
(435) 789-1017			
SCALE		DATE SURVEYED:	
1" = 1000'		11-10-09	
PARTY		DATE DRAWN:	
T.G. F.H. D.P.		07-12-11	
WEATHER		REFERENCES	
COOL		G.L.O. PLAT	
		FILE	
		DAKOTA-3 E&P COMPANY, LLC	

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.

CERTIFICATE



REGISTERED LAND SURVEYOR
REGISTRATION NO. 4654
STATE OF NORTH DAKOTA

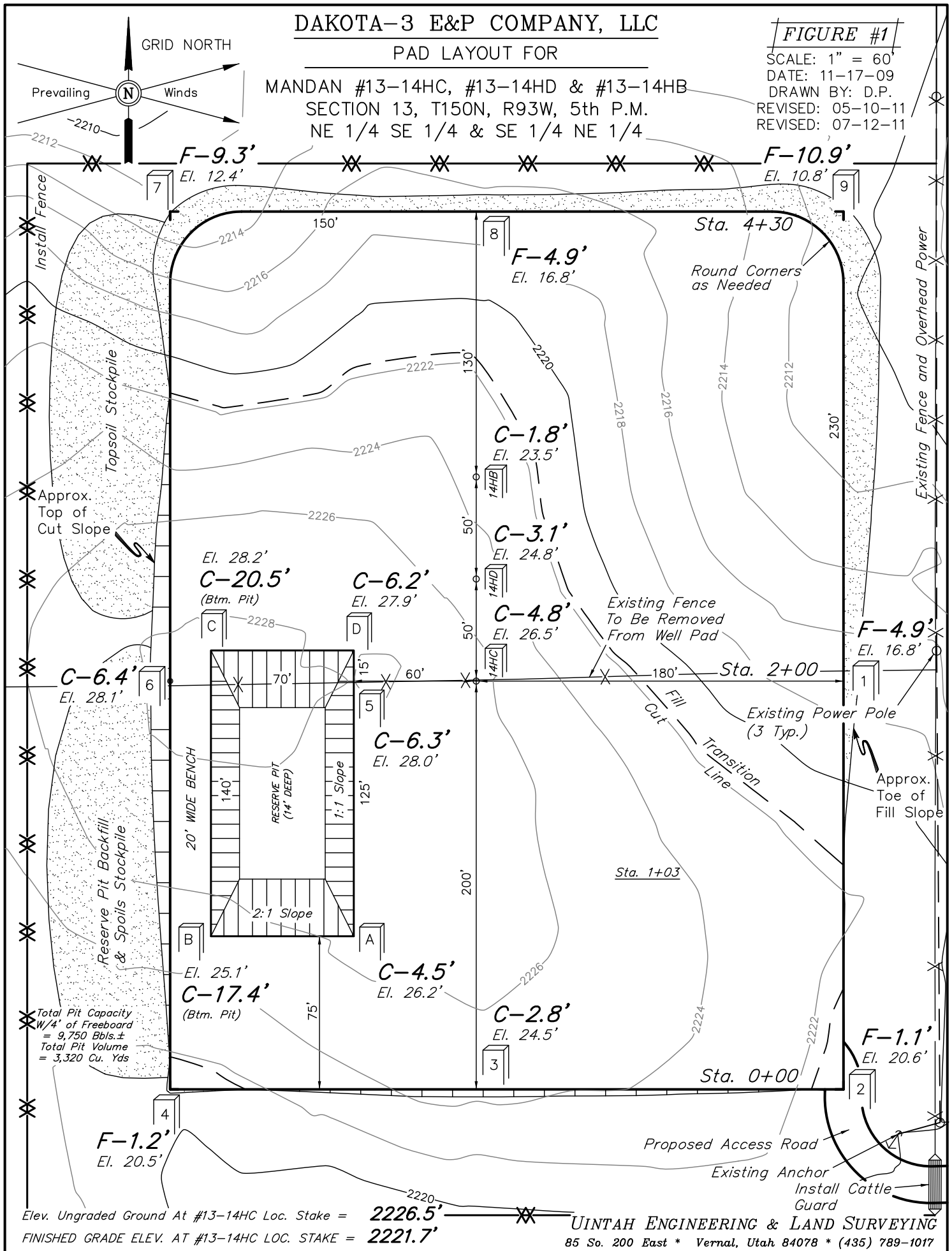
DAKOTA-3 E&P COMPANY, LLC

PAD LAYOUT FOR

MANDAN #13-14HC, #13-14HD & #13-14HB
SECTION 13, T150N, R93W, 5th P.M.
NE 1/4 SE 1/4 & SE 1/4 NE 1/4

FIGURE #1

SCALE: 1" = 60'
DATE: 11-17-09
DRAWN BY: D.P.
REVISED: 05-10-11
REVISED: 07-12-11



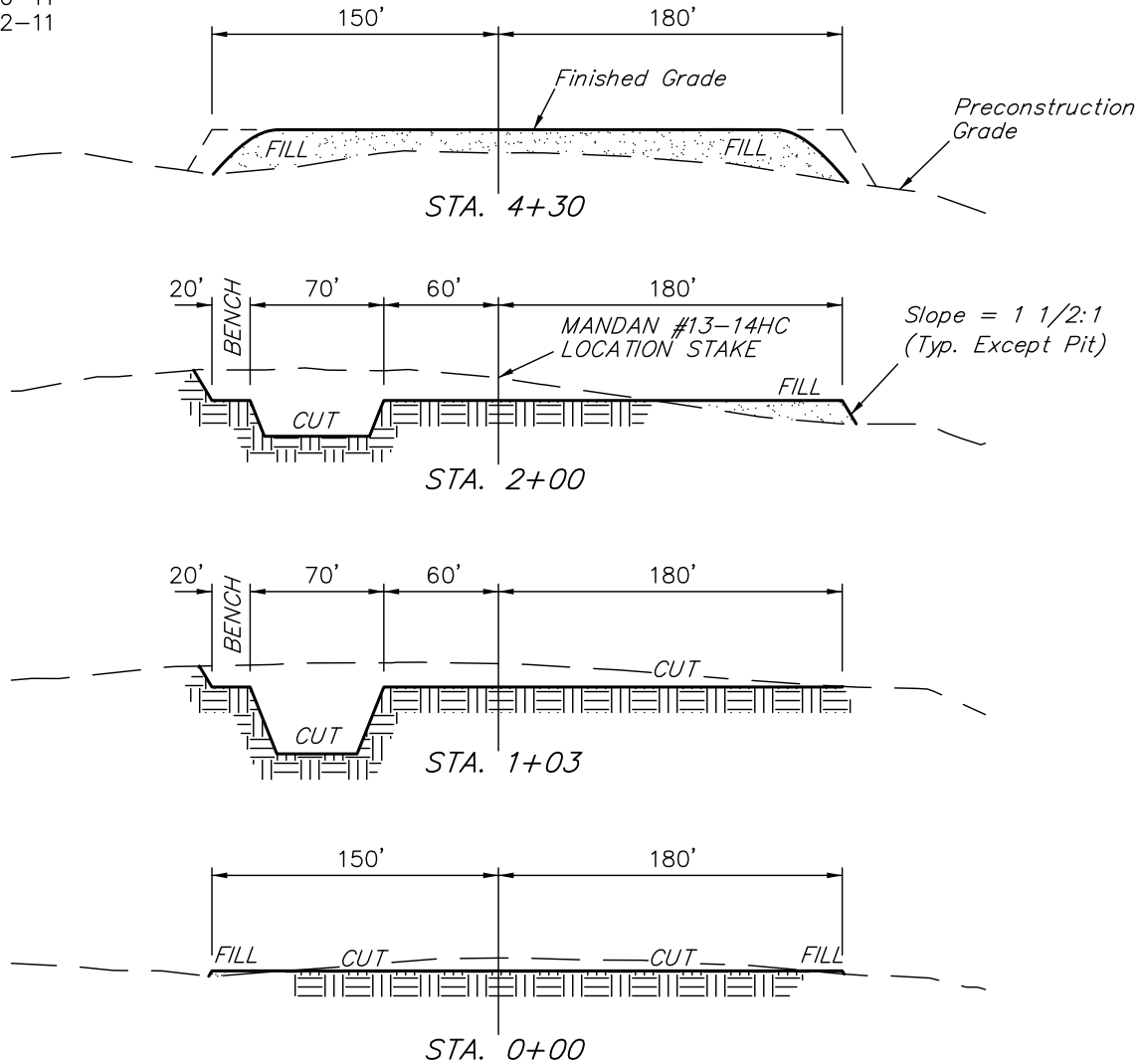
DAKOTA-3 E&P COMPANY, LLC

FIGURE #2

TYPICAL CROSS SECTIONS FOR

MANDAN #13-14HC, #13-14HD & #13-14HB
SECTION 13, T150N, R93W, 5th P.M.
NE 1/4 SE 1/4 & SE 1/4 NE 1/4

X-Section
Scale
1" = 100'
DATE: 11-17-09
DRAWN BY: D.P.
REVISED: 05-10-11
REVISED: 07-12-11



APPROXIMATE ACREAGES

WELL SITE DISTURBANCE = ± 4.187 ACRES

ACCESS ROAD DISTURBANCE = ± 0.208 ACRES

TOTAL = ± 4.395 ACRES

* NOTE:
FILL QUANTITY INCLUDES
5% FOR COMPACTION

APPROXIMATE YARDAGES

CUT
(6") Topsoil Stripping = 2,890 Cu. Yds.
Location Cut = 9,990 Cu. Yds.
Reserve Pit Cut = 3,320 Cu. Yds.
TOTAL CUT = 16,200 CU. YDS.
FILL = 11,650 CU. YDS.

EXCESS MATERIAL = 4,550 Cu. Yds.
Topsoil & Pit Backfill = 4,550 Cu. Yds.
(1/2 Pit Vol.)
EXCESS UNBALANCE = 0 Cu. Yds.
(After Interim Rehabilitation)

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017

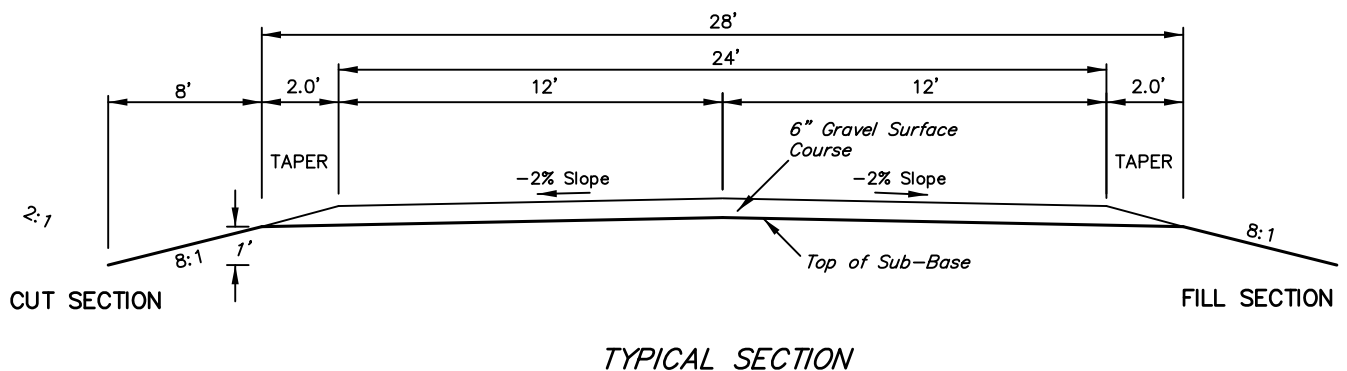
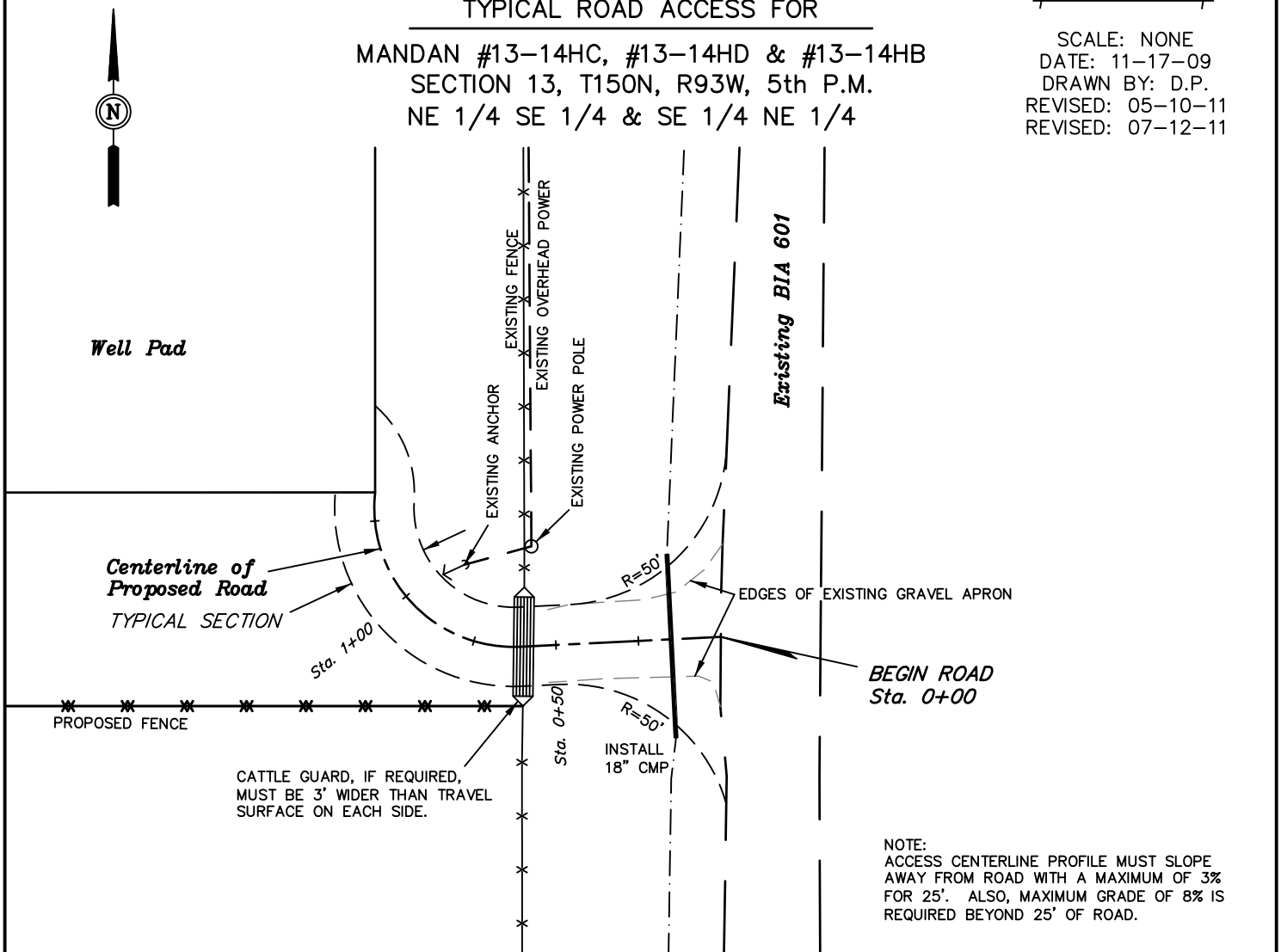
DAKOTA-3 E&P COMPANY, LLC

TYPICAL ROAD ACCESS FOR

MANDAN #13-14HC, #13-14HD & #13-14HB
SECTION 13, T150N, R93W, 5th P.M.
NE 1/4 SE 1/4 & SE 1/4 NE 1/4

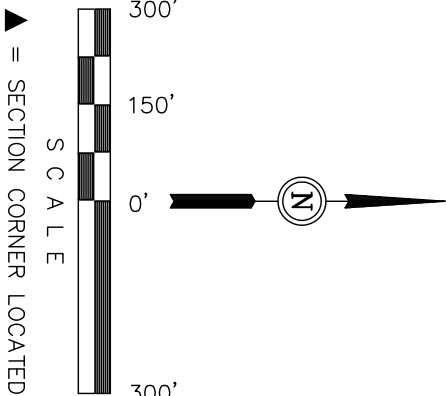
FIGURE #3

SCALE: NONE
DATE: 11-17-09
DRAWN BY: D.P.
REVISED: 05-10-11
REVISED: 07-12-11



ROAD RIGHT-OF-WAY ON
TRIBAL LANDS
(For MANDAN #13-14HC, #13-14HD
& #13-14HB)

LOCATED IN
SECTION 13, T150N, R93W, 5th P.M.,
MOUNTRAIL COUNTY, NORTH DAKOTA



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.

CERTIFICATE



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

REVISED: 07-12-11
REVISED: 05-10-11

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

SCALE 1" = 300'	DATE 11-17-09
PARTY T.G. F.H. D.P.	REFERENCES G.L.O. PLAT
WEATHER COOL	FILE 4 9 6 0 9

1/16 Section Line

NE 1/4

LINE TABLE		
LINE	BEARING	LENGTH
L1	S87°11'11"W	60.99'
L2	N67°18'53"W	47.87'
L3	N00°22'39"E	28.22'

RIGHT-OF-WAY LENGTHS

PROPERTY OWNER	FEET	ACERS	RODS
T482A	137.08	0.208	8.308

1/4 Section Line

1/16 Section Line

UNKNOWN
FEE

R
93
W
R
92
W

NE Cor.
Sec. 13
Set Stone

Section Line
N00°01'55"W - 5286.84' (Meas.)

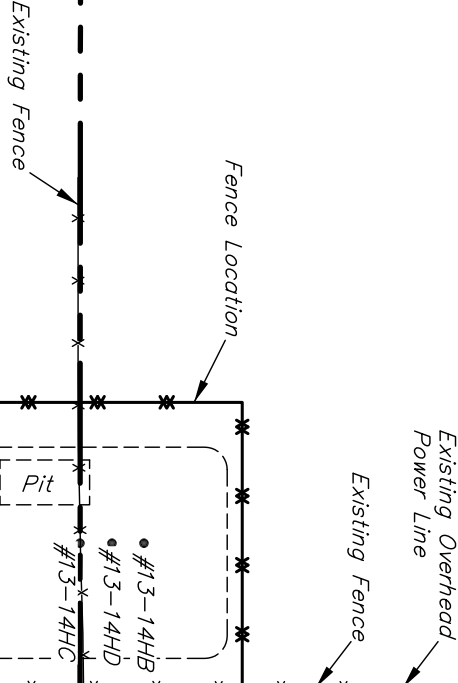
Existing BIA 601
BEGINNING OF PROPOSED
ROAD RIGHT-OF-WAY
STA. 0+00
(At Edge of BIA 601)

END OF PROPOSED
ROAD RIGHT-OF-WAY
STA. 1+37.08
(At Edge of Well Pad)

T482A

See Figure #3
Install 18" CMP
Remove Existing
Gate and Install
Cattle Guard

P.I. 1+08.86
P.I. 0+60.99



Sec. 13

1/4 Section Line

ROAD RIGHT-OF-WAY DESCRIPTION ON TRIBAL LANDS

A 66' WIDE RIGHT-OF-WAY 33' ON EACH SIDE OF THE FOLLOWING DESCRIBED
CENTERLINE.

BEGINNING AT A POINT IN THE NE 1/4 SE 1/4 OF SECTION 13, T150N, R93W, 5th
P.M., WHICH BEARS N00°19'26"W 2399.75' FROM THE SOUTHEAST CORNER OF SAID
SECTION 13, THENCE S87°11'11"W 60.99'; THENCE N67°18'53"W 47.87'; THENCE
N00°22'39"E 28.22' TO A POINT IN THE NE 1/4 SE 1/4 OF SAID SECTION 13, WHICH
BEARS N02°46'33"W 2446.28' FROM THE SOUTHEAST CORNER OF SAID SECTION 13.
THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR
ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES BASIS OF BEARINGS IS A
G.P.S. OBSERVATION. CONTAINS 0.208 ACRES MORE OR LESS.

SE 1/4

BEGINNING STA. 0+00 BEARS N00°19'26"W 2399.75' FROM THE
SOUTHEAST CORNER OF SECTION 13, T150N, R93W, 5th P.M.
END STA. 1+37.08 BEARS N02°46'33"W 2446.28' FROM THE
SOUTHEAST CORNER OF SECTION 13, T150N, R93W, 5th P.M.

SE Cor.
Sec. 13
Set Stone

DAKOTA-3 E&P COMPANY, LLC
MANDAN #13-14HC, #13-14HD & #13-14HB
ROAD RIGHT-OF-WAY
SECTION 13, T150N, R93W, 5th P.M.

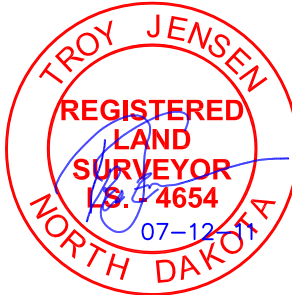
TOTAL ROAD RIGHT-OF-WAY ON TRIBAL LANDS

TOTAL LENGTH OF RIGHT-OF-WAY IS 137.08' OR 0.026 MILES. WIDTH OF RIGHT-OF-WAY IS 66' (33' PERPENDICULAR ON EACH SIDE OF THE CENTERLINE). CONTAINS 0.208 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 DAKOTA-3 E&P COMPANY, LLC, THAT THESE SURVEYS WERE MADE BY HIM (OR UNDER HIS SUPERVISION): THAT HE HAS EXAMINED THE FIELD NOTES OF THE SURVEYS OF THE ROAD RIGHT-OF-WAY AS DESCRIBED AND SHOWN ON THIS MAP, THAT THIS MAP WAS PREPARED UNDER HIS DIRECTION FROM SAID FIELD NOTES; AND THAT SAID RIGHT-OF-WAY, 0.026 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 DAKOTA-3 E&P COMPANY, LLC, HEREINAFTER DESIGNATED THE APPLICANT; THAT TROY JENSEN WHO SUBSCRIBED TO THE FOREGOING AFFIDAVIT, IS EMPLOYED BY THE APPLICANT AS A LAND SURVEYOR AND THAT HE WAS DIRECTED BY THE APPLICANT TO SURVEY THE LOCATION OF THIS ROAD RIGHT-OF-WAY, 0.026 MILES IN LENGTH BEGINNING AT STA. 0+00 AND ENDING AT STA. 1+37.08, THAT SAID ROAD RIGHT-OF-WAY IS ACCURATELY REPRESENTED ON THIS MAP; THAT SUCH SURVEY AS REPRESENTED ON THIS MAP HAS BEEN ADOPTED BY THE APPLICANT AS THE DEFINITE LOCATION OF THE RIGHT-OF-WAY THEREBY SHOWN; AND THAT THE MAP HAS BEEN PREPARED TO BE FILED WITH THE SECRETARY OF THE INTERIOR OR HIS DULY AUTHORIZED REPRESENTATIVE AS PART OF THE APPLICATION FOR SAID RIGHT-OF-WAY TO BE GRANTED THE APPLICANT, ITS SUCCESSORS AND ASSIGNS, WITH THE RIGHT TO CONSTRUCT, MAINTAIN, AND REPAIR IMPROVEMENTS, THEREON AND THEREOVER, FOR SUCH PURPOSES, AND WITH THE FURTHER RIGHT IN THE APPLICANT, ITS SUCCESSORS AND ASSIGNS TO TRANSFER THIS RIGHT-OF-WAY BY ASSIGNMENT, GRANT, OR OTHERWISE.

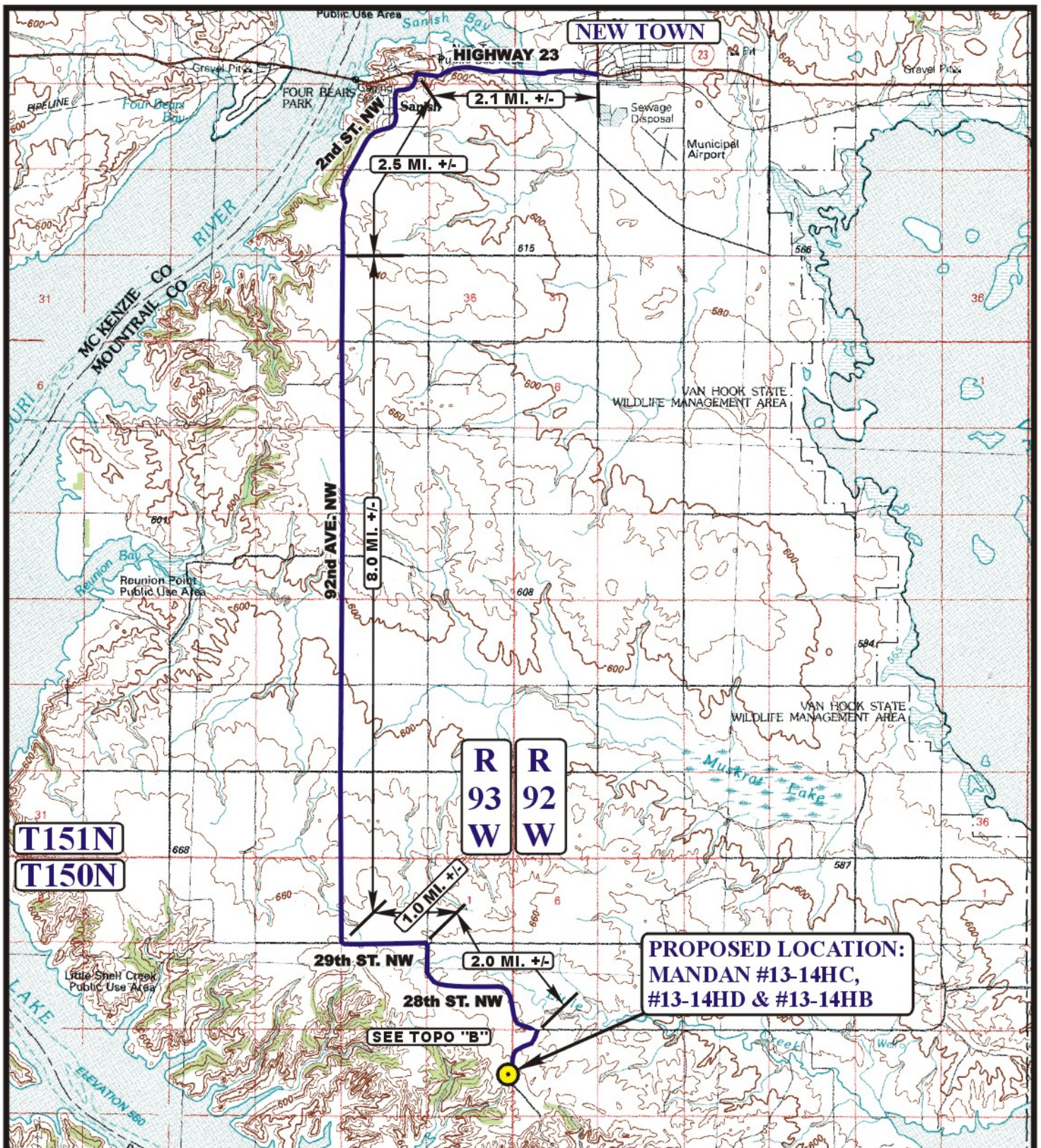
APPLICANT

TITLE

DAKOTA-3 E&P COMPANY, LLC
MANDAN #13-14HC, #13-14HD & #13-14HB
SECTION 13, T150N, R93W, 5th P.M.

PROCEED IN A WESTERLY DIRECTION FROM NEW TOWN, NORTH DAKOTA ALONG HIGHWAY 23 APPROXIMATELY 2.1 MILES TO THE JUNCTION OF THIS ROAD AND 2nd ST. NW TO THE SOUTHWEST, TURN LEFT AND PROCEED IN A SOUTHWESTERLY, THEN WESTERLY, THEN SOUTHERLY, THEN SOUTHWESTERLY DIRECTION APPROXIMATELY 2.5 MILES TO THE JUNCTION OF THIS ROAD AND 92nd AVE. NW TO THE SOUTH; PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 8.0 MILES TO THE JUNCTION OF THIS ROAD AND 29th ST. NW TO THE EAST; TURN LEFT AND PROCEED IN AN EASTERLY DIRECTION APPROXIMATELY 1.0 MILES TO THE JUNCTION OF THIS ROAD AND 28th ST. NW TO THE SOUTH, TURN RIGHT AND PROCEED IN A SOUTHERLY, THEN EASTERLY, THEN SOUTHERLY DIRECTION APPROXIMATELY 2.0 MILES TO THE JUNCTION OF THIS ROAD AND BIA ROAD 601 TO THE SOUTH, TURN RIGHT AND PROCEED IN A SOUTHERLY, THEN SOUTHWESTERLY, THEN SOUTHERLY DIRECTION APPROXIMATELY 0.7 MILES TO THE BEGINNING OF THE PROPOSED ACCESS TO THE WEST; FOLLOW ROAD FLAGS IN A WESTERLY, THEN NORTHWESTERLY DIRECTION APPROXIMATELY 137' TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM NEW TOWN, NORTH DAKOTA TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 16.1 MILES.



LEGEND:

● PROPOSED LOCATION

DAKOTA-3 E&P COMPANY, LLC

MANDAN #13-14HC, #13-14HD & #13-14HB
SECTION 13, T150N, R93W, 5th P.M.
NE 1/4 SE 1/4 & SE 1/4 NE 1/4



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



TOPOGRAPHIC
MAP

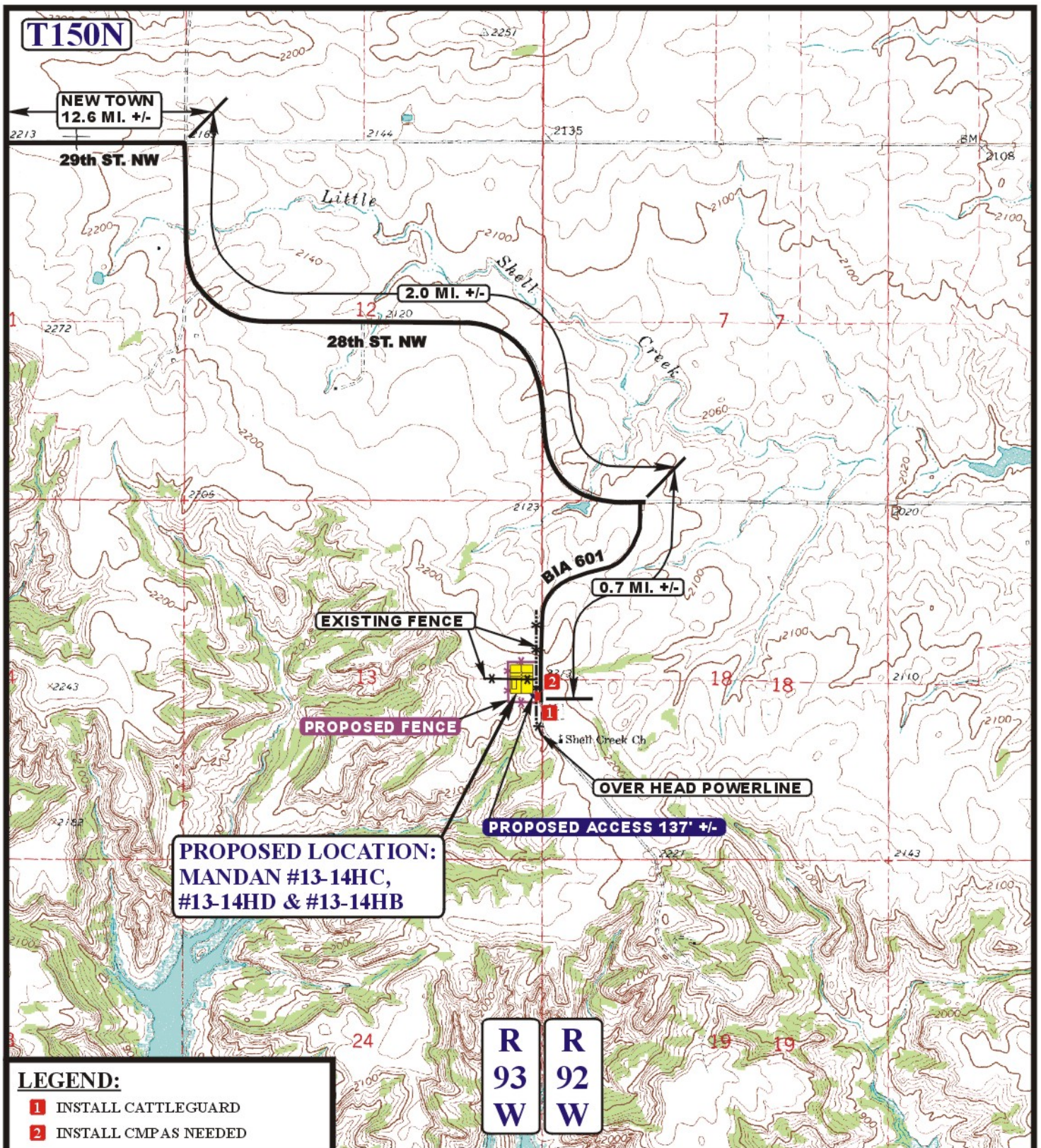
11 12 09
MONTH DAY YEAR

SCALE: 1:100,000

DRAWN BY: J.H.

REV: S.F. 07-13-11





LEGEND:

- EXISTING ROAD
- PROPOSED ACCESS ROAD
- EXISTING FENCE
- PROPOSED FENCE
- OVERHEAD POWER LINE



Uintah Engineering & Land Surveying
 85 South 200 East Vernal, Utah 84078
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DAKOTA-3 E&P COMPANY, LLC

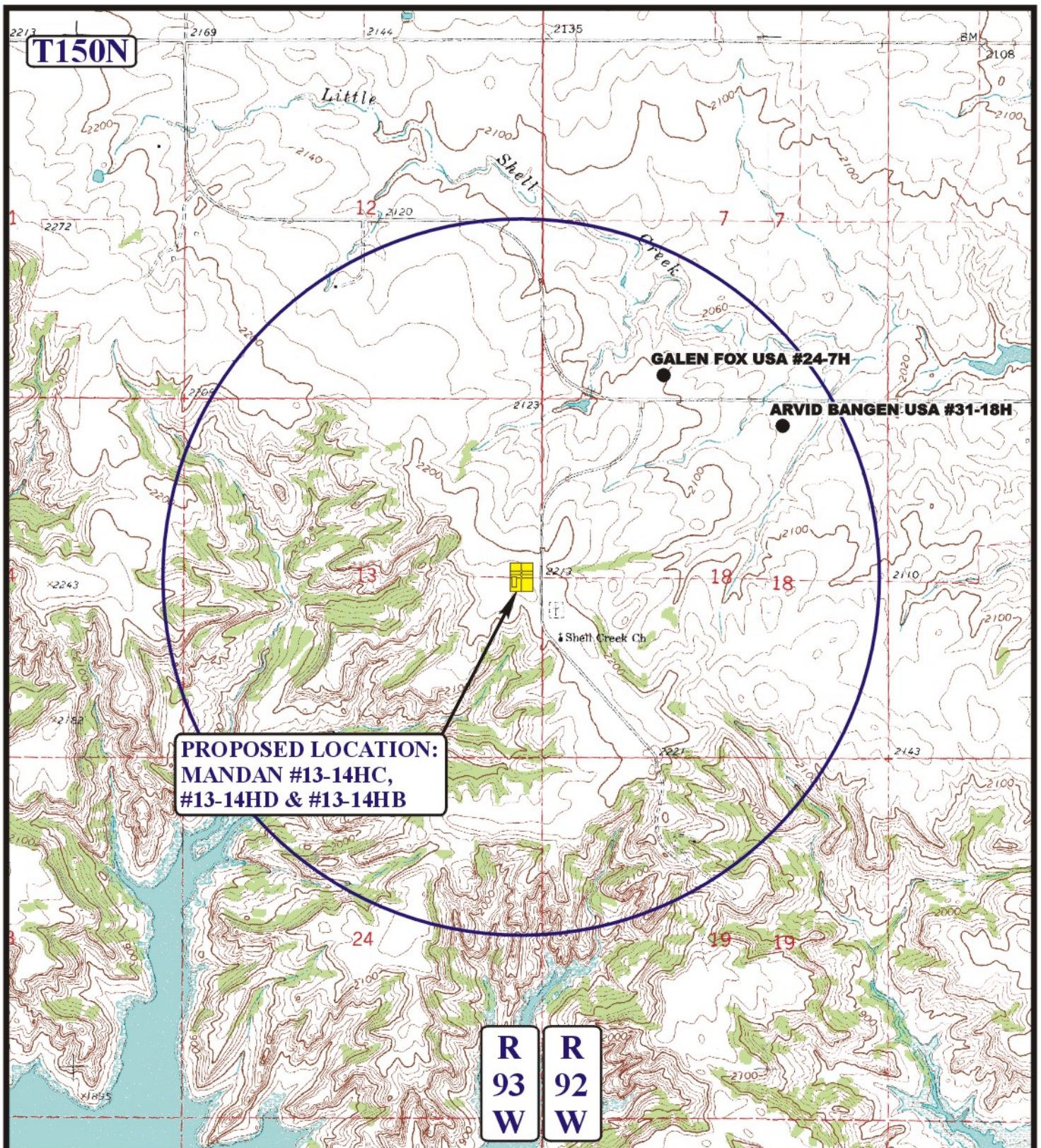
MANDAN #13-14HC, #13-14HD & #13-14HB
SECTION 13, T150N, R93W, 5th P.M.
NE 1/4 SE 1/4 & SE 1/4 NE 1/4

TOPOGRAPHIC
MAP

11 12 09
 MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: J.H. REV: S.F. 07-13-11

B
TOPO



LEGEND:

- DISPOSAL WELLS
- PRODUCING WELLS
- SHUT IN WELLS
- WATER WELLS
- ABANDONED WELLS
- TEMPORARILY ABANDONED



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