



ANCHOR POINT ENERGY, LLC

February 18, 2010

Zach Meehan
Alaska Department of Transportation & Public Facilities
Utilities Section
4111 Aviation Avenue
P.O. Box 196900
Anchorage, Alaska 99519-6900

Re: Natural Gas Pipeline Construction and Operation
Anchor Point Energy, LLC
Kenai Peninsula Borough, Alaska

Dear Mr. Meehan:

Enclosed is an application for Anchor Point Energy, LLC to construct and operate a natural gas pipeline located in the Right-of-Way for the North Fork Road near Anchor Point, Kenai Peninsula Borough, Alaska. The pipeline is intended to transport natural gas from the North Fork Unit located about 8 miles east of Anchor Point and deliver it to a sales pipeline operated by Enstar Natural Gas Company at Anchor Point. The upland areas of the pipeline are intended to be constructed in late summer 2010 (including the 1,200 foot section in your ROW) and the wetlands portions of the pipeline is intended to be constructed during winter months and be completed in early 2011.

Should you have any questions, you can call either me at 303-623-1821 or Bob Britch at 907-243-7716.

Sincerely,

Ed Teng
Vice President-Engineering

**STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES**

APPLICATION FOR UTILITY PERMIT ON STATE RIGHTS-OF-WAY

.....
Application is hereby made for permission to place, construct and thereafter maintain a utility facility in, on, along, or across the Rights-of-Way of the Department of Transportation and Public Facilities, as described below:

Major Permit
\$600.00

Minor Permit*
\$100.00

Linear Footage
\$1.00/foot

*If Minor, Utility Permit being amended: _____

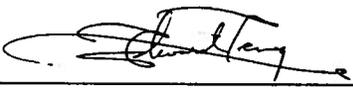
1. Type of Facility: Natural Gas Pipeline
2. Location of Facility: North Fork Road near Anchor Point/Sterling Highway
3. Location and Extent of Required Clearing: Need 50 ft clearing for installation of pipeline.
4. Joint Use with: _____
in accordance with _____
attached as Exhibit _____
5. Facility to be constructed in accordance with the following:
 - a. Plans dated 2/10/10, consisting of 18 sheets attached to and made a part of this application.
 - b. Specifications dated 2/10/10, consisting of 1 page attached to and made a part of this application.
 - c. In conformance with Code(s) _____
6. Work to commence on or about July 1, 2010 and to be completed on or about September 1, 2010.

The applicant in carrying out any or all of the work herein above mentioned or referred to in this application, and in the authorized Utility Permit issued therefore, shall strictly conform to the terms of such Utility Permit; AS 02.15.102, AS 02.15.106, AS 19.25.010, AS 19.25.200, AS 35.10.210; and AS 35.10.230; regulations as set forth in 17 AAC 15 and any revisions thereto, and such policy directives as issued by the Commissioner of the Department of Transportation and Public Facilities.

The applicant shall comply with regulations of all other governmental agencies and the work shall be accomplished in a manner that will not be detrimental to the Department facility and appurtenances nor in any manner endanger the traveling public or facility users.

APPLICANT: Anchor Point Energy, LLC DATE: February 16, 2010

ADDRESS: 1421 Blake Street; Denver, Colorado 80202 PHONE: 303-623-1821

SIGNED:  TITLE: Vice President-Engineering

APPROVED: _____ DATE: _____

PIPE CARRIERS

Transmittant: Natural Gas Flash Point: -188°C

Working Pressure: 1,300 psi Temperature: 25-50 °F

Number of Conduits (Pipes): Up to 2

Diameter of Pipe: 4.79" OD, 3.57" ID

Type and Class of Pipe: 2,250 psi Series Fiberspar LinePipe-J w/HDPE Pressure Barrier & HDPE External Wear Layer

Encasement Diameter and Type: Not used

Vent Locations: N/A Left: N/A Right of Highway Centerline

Cathodic Protection: Not required

Crossing Angle: 80 degrees Length: 100 feet

Depth Below Road Surface: 48"

Depth Below Ditch Bottom: 48"

Method of Crossing Installation: Boring: X Jacking: Open Cut:

Longitudinal Facility Length: 1,200 feet in ADOTPF ROW

Offset from Highway Right-of-way Line: 50 feet Depth of Bury (Min. 36"): 48"

Method of Longitudinal Installation: Trenching: X Plowing:

Construction Code(s) Applicable: USDOT/PHMSA

ADDITIONAL INFORMATION:

25D-263 (5/86)

Permit No. _____

Page of

In consideration of the benefits accruing to the Permittee by reasons of the foregoing agreement, this permit is hereby accepted by the Permittee and the Permittee hereby agrees to comply with all of the terms, provisions, conditions and stipulations therein contained.

The State of Alaska, acting by and through its Department of Transportation and Public Facilities has caused this Utility Permit to be executed on this _____ day of _____, 20__.

Dated this _____ day of _____, 20__

THE COMPANY OR PERMITTEE

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

CENTRAL REGION

Name of Company

By: _____

By: _____

Title: _____

Title: Utilities Engineer

Attest: _____

Title:

ACKNOWLEDGEMENT OF DEPARTMENT

ACKNOWLEDGEMENT OF COMPANY OR PERMITTEE

STATE OF ALASKA)
3RD JUDICIAL DISTRICT)ss

STATE OF ALASKA)
3RD JUDICIAL DISTRICT)ss

BE IT REMEMBERED that on this _____ day of _____, 20__, before me, the undersigned, a Notary Public of the State of Alaska, personally appeared

BE IT REMEMBERED THAT ON THIS _____ day of _____, 20__, before me, the undersigned, a Notary Public of the State of Alaska, personally appeared

and
both to me personally known and known to me to be the identical individuals named in and who executed the foregoing permit, and acknowledged the said instrument to be the free and voluntary act and deed of the above named company for the uses and purposes therein expressed and on oath stated that they were authorized to execute said instrument.

of the Department of Transportation and Public Facilities known to me to be the identical individual who executed the foregoing Permit, and he acknowledged to me that he executed the same for and on behalf of the State of Alaska, Department of Transportation and Public Facilities with full authority so to do, and for the uses and purposes therein expressed.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the Seal of my Office the day and year first above written.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the Seal of my Office the day and year first above written.

My Commission Expires: _____

My Commission Expires: _____

A Notary Public

A Notary Public

ATTACHMENT 1

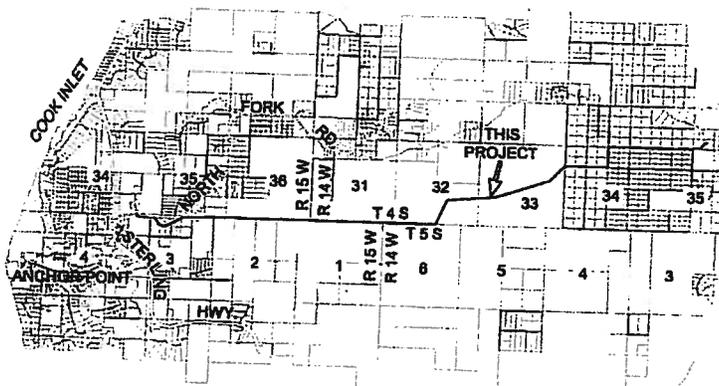
NORTH FORK GAS GATHERING LINE ANCHOR POINT ENERGY, LLC



VICINITY MAP
SCALE: 1" = 2 MILES



PROJECT LOCATION



LEGEND

- SECTION CORNER MONUMENT
- CREEK / RIVER FROM ARIEL / GIS
- TREE LINE
- CREEK / RIVER (SURVEYED)
- SECTION LINE
- CONTOUR LINE
- WETLAND
- GAS LINE
- D-# DRAINAGE IMPACT
- W-# WETLAND IMPACT

GENERAL NOTES

1. BASIS OF HORIZONTAL COORDINATES ARE ALASKA STATE PLANE NAD 83 ZONE 4 EPOCH 2003 DETERMINED BY AN NGS OPUS SOLUTION FROM CORS BASE STATIONS "KENS", "TSEA" AND "KODS" OBSERVED DEC. 13, 2007 ON NF1 3 1/2" ALUM. CAP SET N: 2121137.137 E: 1339704.533 ELEV. 658.69'

2) BASIS OF ELEVATION IS NGS BENCHMARK N86 TT0195 ELEV. 180.84 FT. NAVD88 DATUM.

3) SOUTHEAST CORNER SEC. 26 COORDINATES DETERMINED FROM DIRECT SURVEY TIE TO THE TO EXISTING BLM SECTION CORNER TIE PER HM91-57 AND NOT THE PROTRACTED SECTION CORNER VALUES.

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	COVER
2-3	OVERVIEW
4-8	GAS LINE PLAN VIEW
9-13	CREEK/RIVER CROSSINGS
14	NORTH FORK CROSSING PROFILE
15-17	DETAILS
18	TABLE



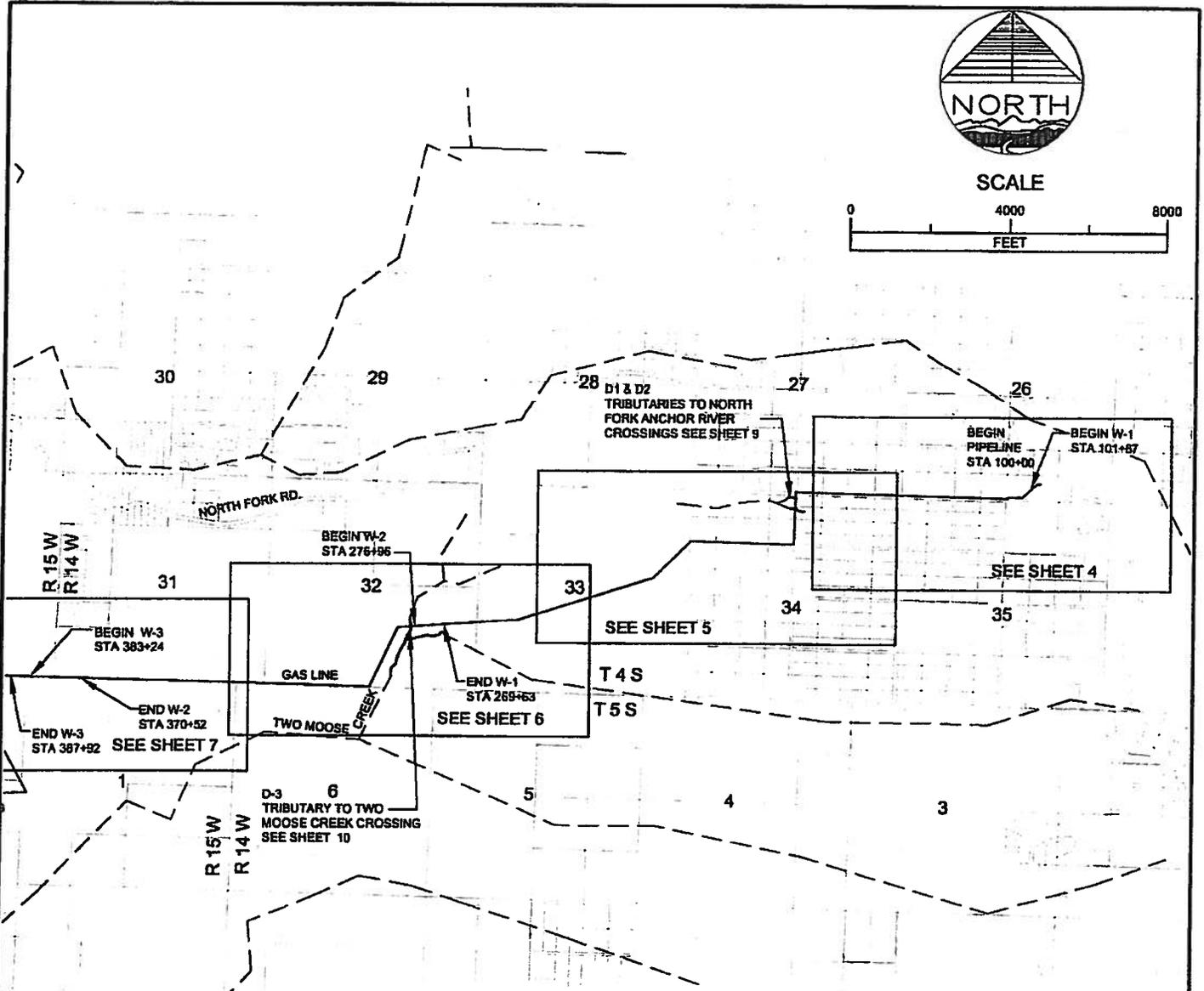
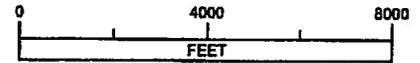
ENGINEERING - TESTING
SURVEYING - MAPPING
P.O. BOX 468
SOLDOTNA, AK. 99689
VOICE: (907) 283-4218
FAX: (907) 283-3265
WWW.MCLANECG.COM

LOCATION	WEST END: SE 1/4 SEC 34, T4S, R15W, S.M. EAST END: SE 1/4 SEC 26, T4S, R14W, S.M.
PURPOSE	NORTH FORK GAS GATHERING LINE
APPLICANTS	ANCHOR POINT ENERGY, LLC 1421 BLAKE, DENVER, CO 80202

REVISION: -
DATE: 2/10/10
DRAWN BY: BGR
SCALE: 1" = 2 MILES
PROJECT NO. 003104
BOOK NO. 7-29
SHEET 1 OF 18



SCALE



NOTES & PIPELINE STATION TABLE

WETLAND SECTION	STATIONING	LENGTH
W-1	101+67 - 269+63	16796 LF
W-2	276+96 - 370+52	9356 LF
W-3	383+24 - 387+92	468 LF
W-4	391+75 - 409+10	1735 LF
W-5	423+83 - 432+36	873 LF
W-6	435+80 - 437+45	155 LF
W-7	472+14 - 480+86	872 LF



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PURPOSE

NORTH FORK GAS GATHERING LINE

APPLICANTS

ANCHOR POINT ENERGY, LLC
1421 BLAKE, DENVER, CO 80202

REVISION -

DATE: 2/10/10

DRAWN BY: BGB

SCALE: 1"=4000'

PROJECT NO. 083104

BOOK NO. 7-29

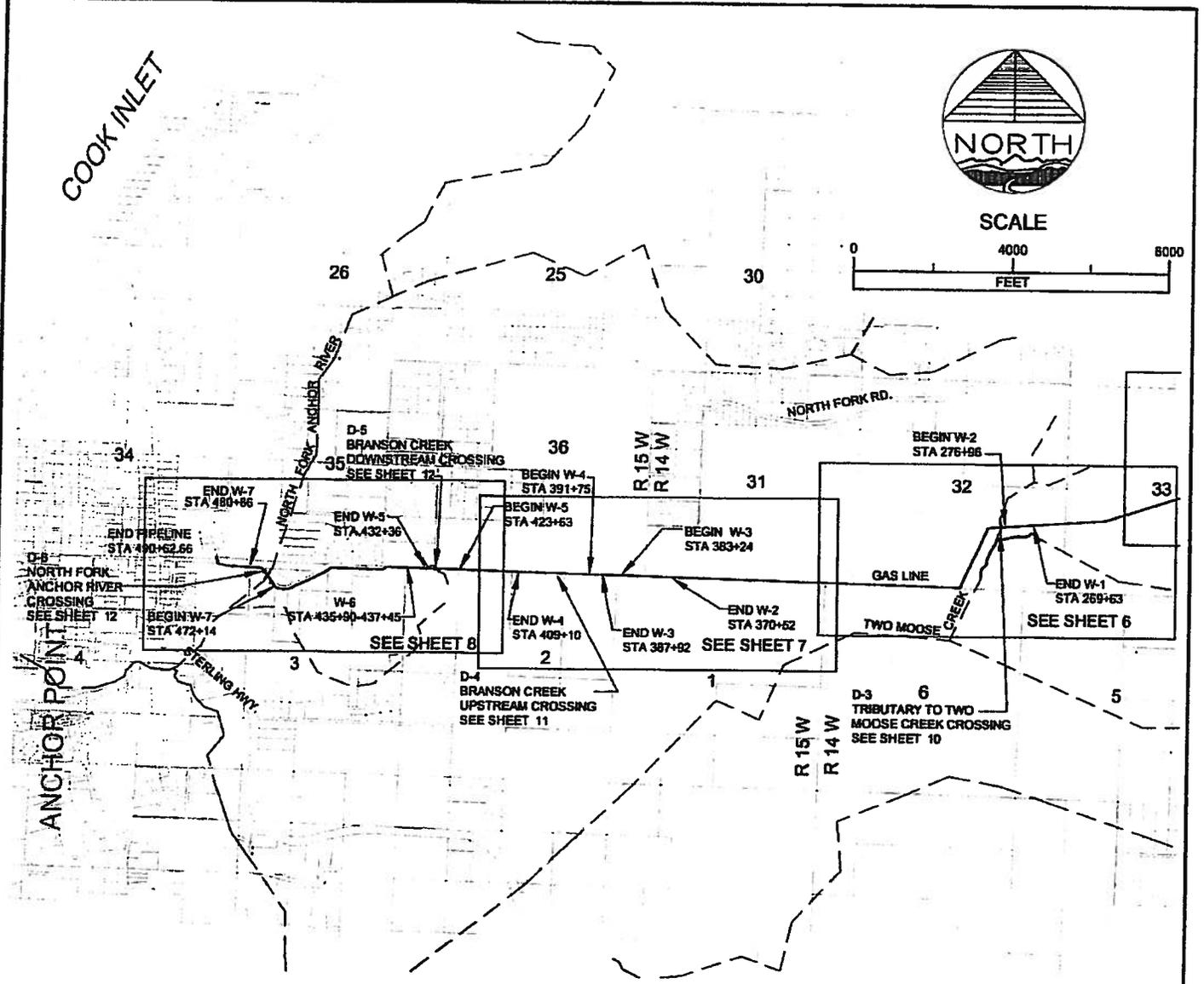
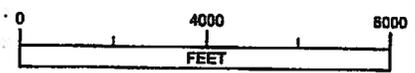
SHEET

2 OF 18

COOK INLET



SCALE



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W-5	423+63 - 432+36	873 LF
W-6	435+90 - 437+45	155 LF
W-7	472+14 - 480+86	872 LF



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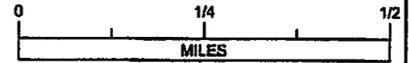
PURPOSE
NORTH FORK GAS GATHERING LINE

APPLICANTS
ANCHOR POINT ENERGY, LLC
 1421 BLAKE, DENVER, CO 80202

REVISION: -
 DATE: 2/10/10
 DRAWN BY: BGB
 SCALE: 1"=4000'
 PROJECT NO. 003104
 BOOK NO 7-20
 SHEET
3 of 18



SCALE



SECTION 27

NORTH FORK RD

SECTION 26

160+00

150+00

140+00

130+00

120+00

110+00

100+00

BEGIN W-1
STA 101+67

WAGON RD

D-1 (SHT. 8)
STA 164+66

D-2 (SHT. 9)
STA 167+14

180+00

ANDCART RD

SECTION 35

NOTES

1. WETLAND LIMITS PER U.S. FISH AND WILDLIFE SERVICE'S NATIONAL WETLAND INVENTORY



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PURPOSE

NORTH FORK GAS GATHERING LINE

APPLICANTS

ANCHOR POINT ENERGY, LLC

1421 BLAKE, DENVER, CO 80202

REVISION -

DATE: 2/10/10

DRAWN BY: BGB

SCALE: 1" = 1/4 MILE

PROJECT NO. 063104

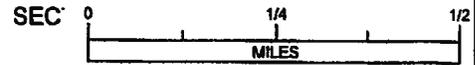
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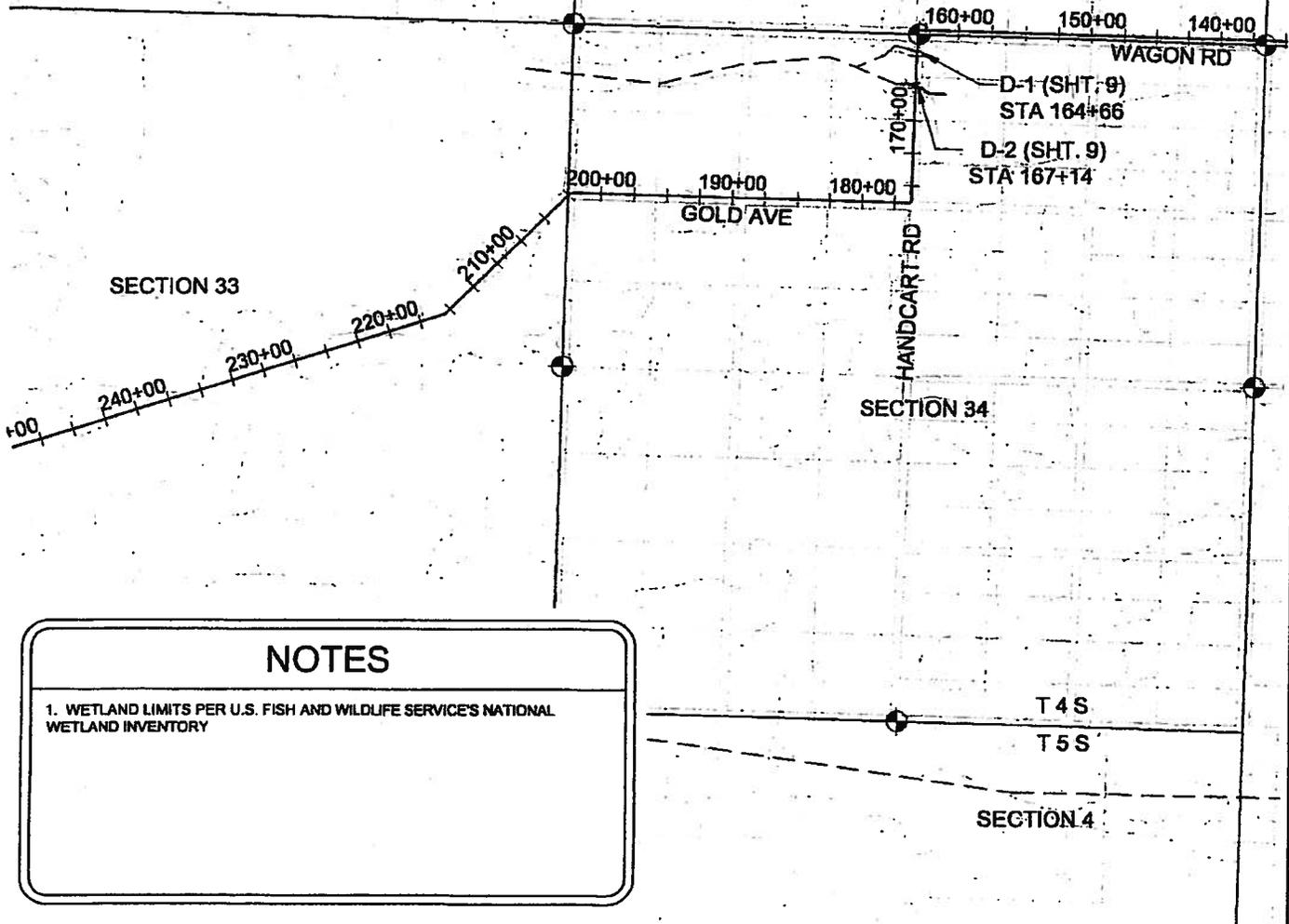
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SECTION 28

SECTION 27

SECTION 33



NOTES

1. WETLAND LIMITS PER U.S. FISH AND WILDLIFE SERVICE'S NATIONAL WETLAND INVENTORY



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PURPOSE

NORTH FORK GAS GATHERING LINE

APPLICANTS

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1421 BLAKE, DENVER, CO 80202

REVISION: -

DATE: 2/10/10

DRAWN BY: BGG

SCALE: 1" = 1/4 MILE

PROJECT NO. 083104

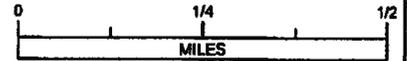
BOOK NO. 7-20

SHEET

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SCALE



SECTION 31

SECTION 32

SECTION 33

BEGIN W2
STA 276+96

D-3 (SHT.10)
277+90

END W-1
STA 269+63

T 4 S
T 5 S

330+00

320+00

310+00

300+00

280+00

270+00

260+00

250+00

240+00

230+00

R 15 W
R 14 W

SECTION 6

SECTION 5

NOTES

1. WETLAND LIMITS PER U.S. FISH AND WILDLIFE SERVICE'S NATIONAL WETLAND INVENTORY



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LOCATION

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EAST END: SE 1/4 SEC 26, T4S, R14W, S.M.

PURPOSE

NORTH FORK GAS GATHERING LINE

APPLICANTS

ANCHOR POINT ENERGY, LLC
1421 BLAKE, DENVER, CO 80202

REVISION: -

DATE: 2/10/10

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SCALE: 1" = 1/4 MILE

PROJECT NO. 093104

BOOK NO. 7-29

SHEET

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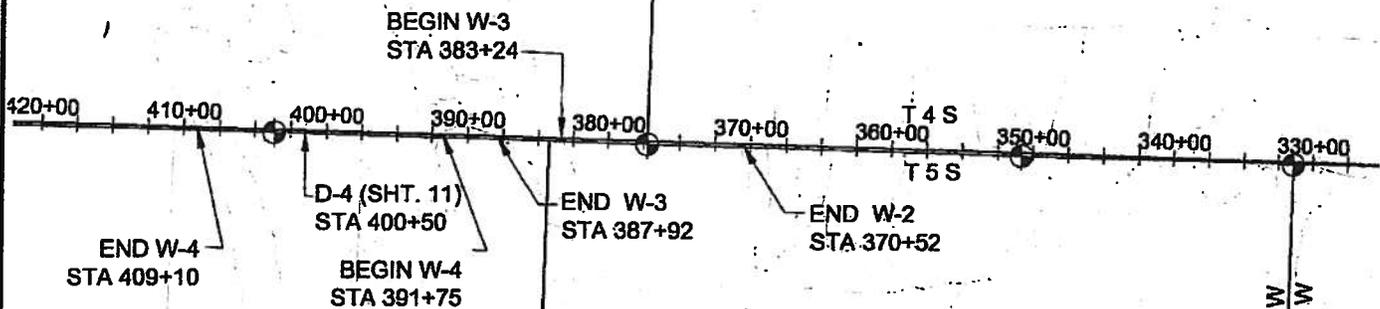
SCALE



SECTION 36

SECTION 31

R 15 W
R 14 W



SECTION 2

SECTION 1

NOTES

1. WETLAND LIMITS PER U.S. FISH AND WILDLIFE SERVICES NATIONAL WETLAND INVENTORY



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PURPOSE

NORTH FORK GAS GATHERING LINE

APPLICANTS

ANCHOR POINT ENERGY, LLC

1421 BLAKE, DENVER, CO 80202

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SCALE: 1" = 1/4 MILE

PROJECT NO. 083104

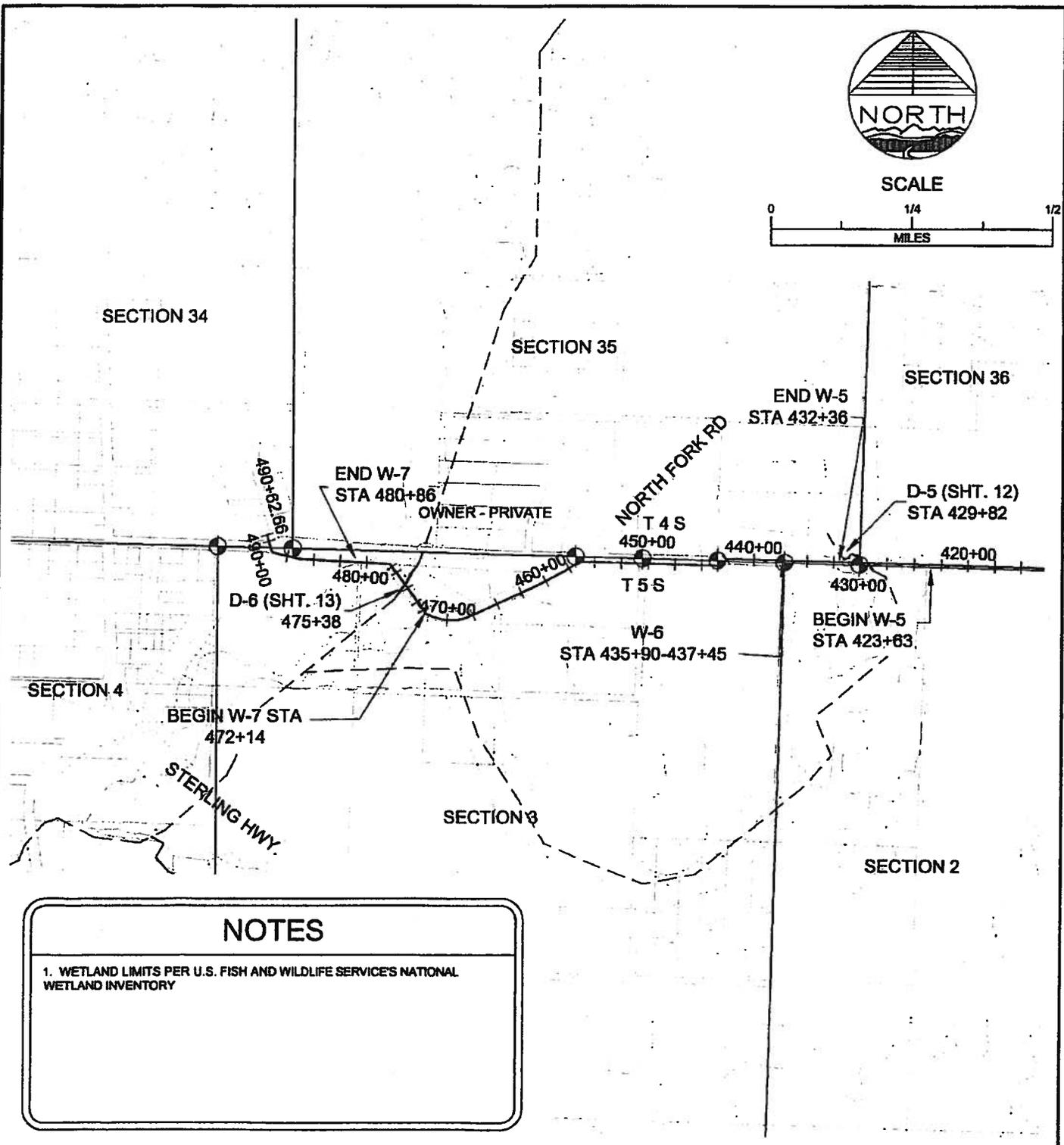
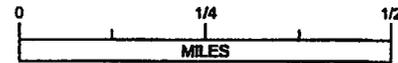
BOOK NO. 7-20

SHEET

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SCALE



NOTES

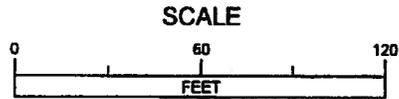
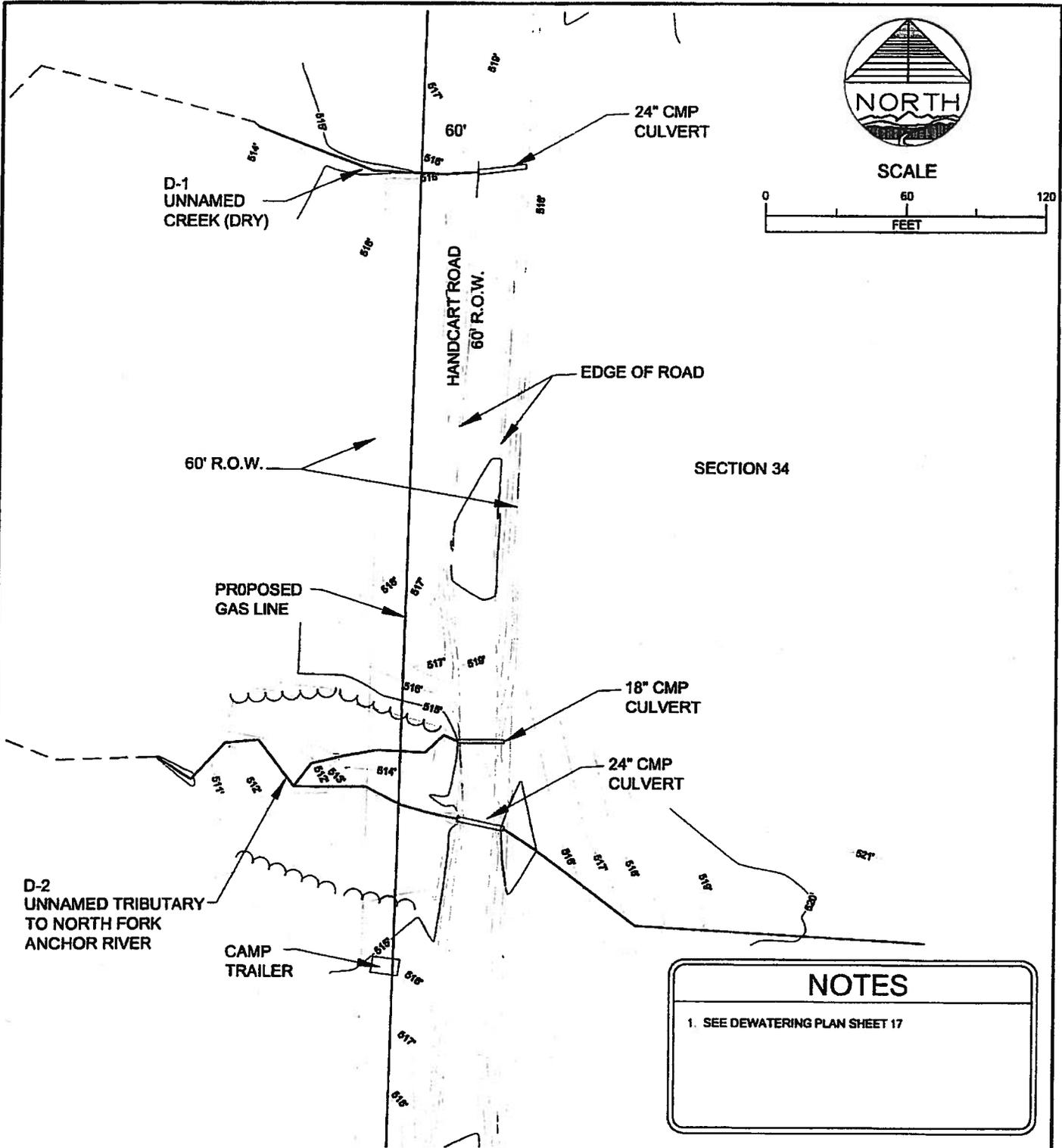
1. WETLAND LIMITS PER U.S. FISH AND WILDLIFE SERVICE'S NATIONAL WETLAND INVENTORY



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LOCATION	WEST END: SE 1/4 SEC 34, T4S, R15W, S.M. EAST END: SE 1/4 SEC 26, T4S, R14W, S.M.
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APPLICANTS	ANCHOR POINT ENERGY, LLC 1421 BLAKE, DENVER, CO 80202

REVISION	-
DATE	2/10/10
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SCALE	1" = 1/4 MILE
PROJECT NO.	093104
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SHEET	8 OF 18



NOTES

1. SEE DEWATERING PLAN SHEET 17



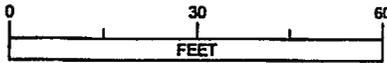
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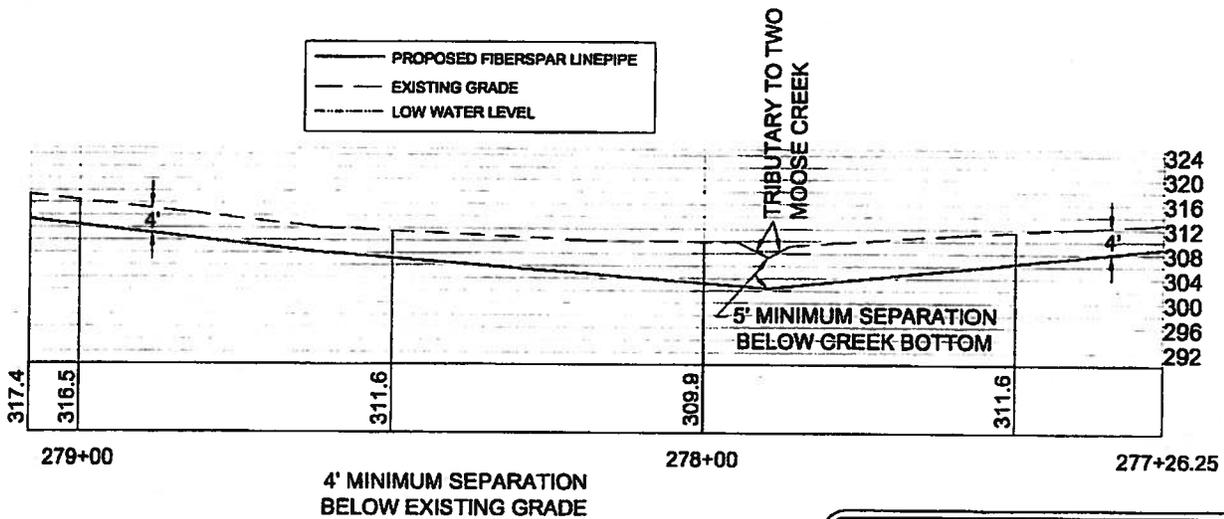
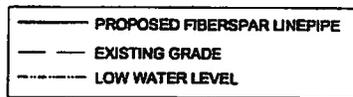
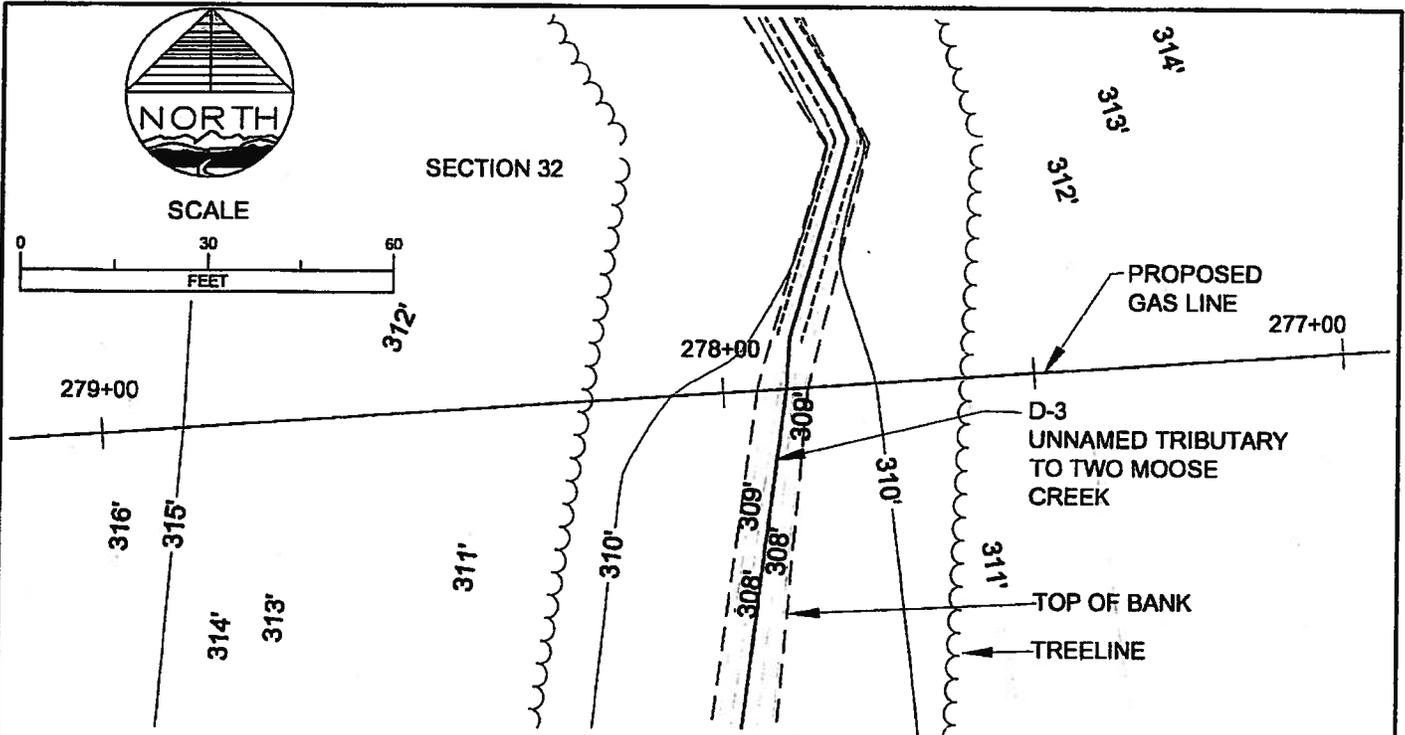
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SCALE:	1" = 60'
PROJECT NO:	003104
BOOK NO.:	7-29
SHEET	9 of 18



SCALE



SECTION 32



NOTES
1. SEE DEWATERING PLAN SHEET 17



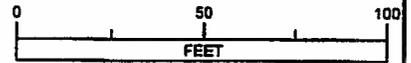
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LOCATION
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PURPOSE
NORTH FORK GAS GATHERING LINE
APPLICANTS
ANCHOR POINT ENERGY, LLC
1421 BLAKE, DENVER, CO 80202

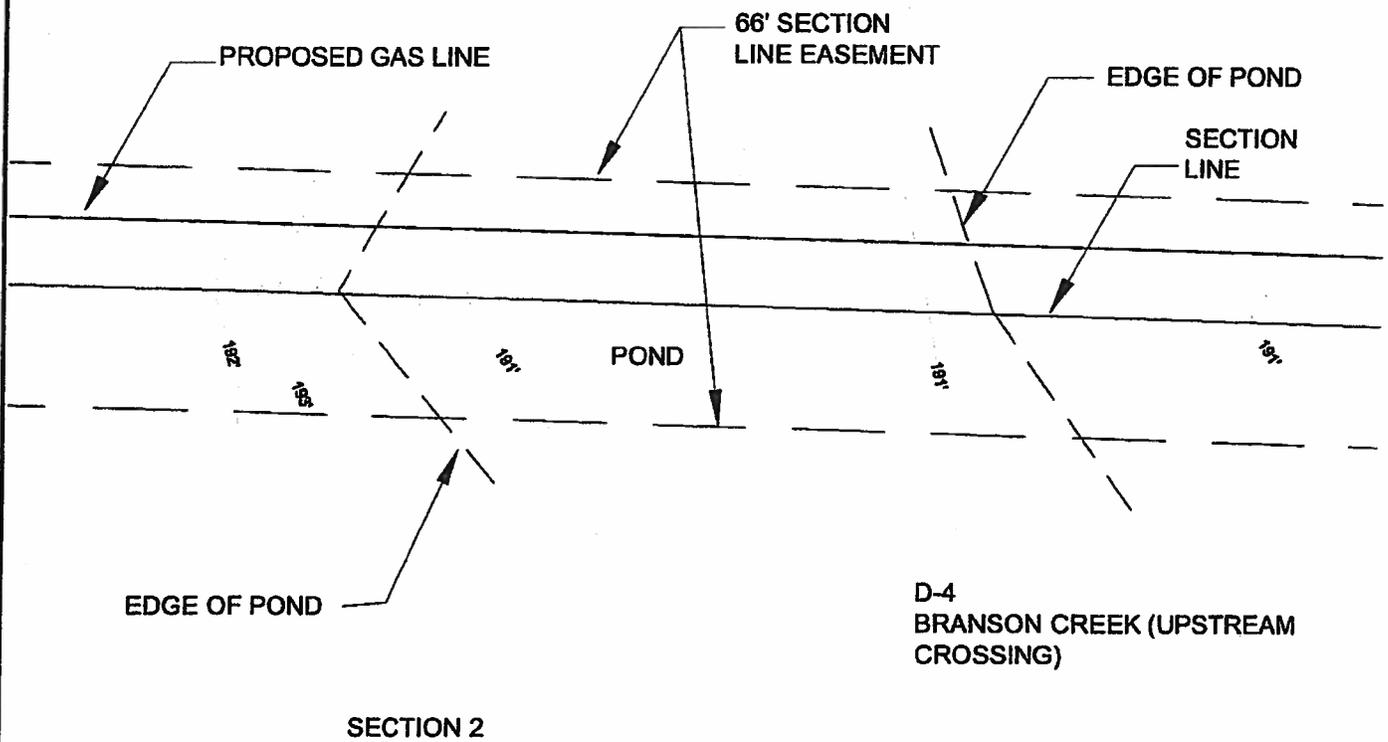
REVISION: -
DATE: 2/10/10
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SCALE: 1" = 30'
PROJECT NO. 083104
BOOK NO. 7-29
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10 OF 18



SCALE



SECTION 36



NOTES

1. SEE DEWATERING PLAN SHEET 17



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LOCATION

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PURPOSE

NORTH FORK GAS GATHERING LINE

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REVISION: -

DATE: 2/10/10

DRAWN BY: BGD

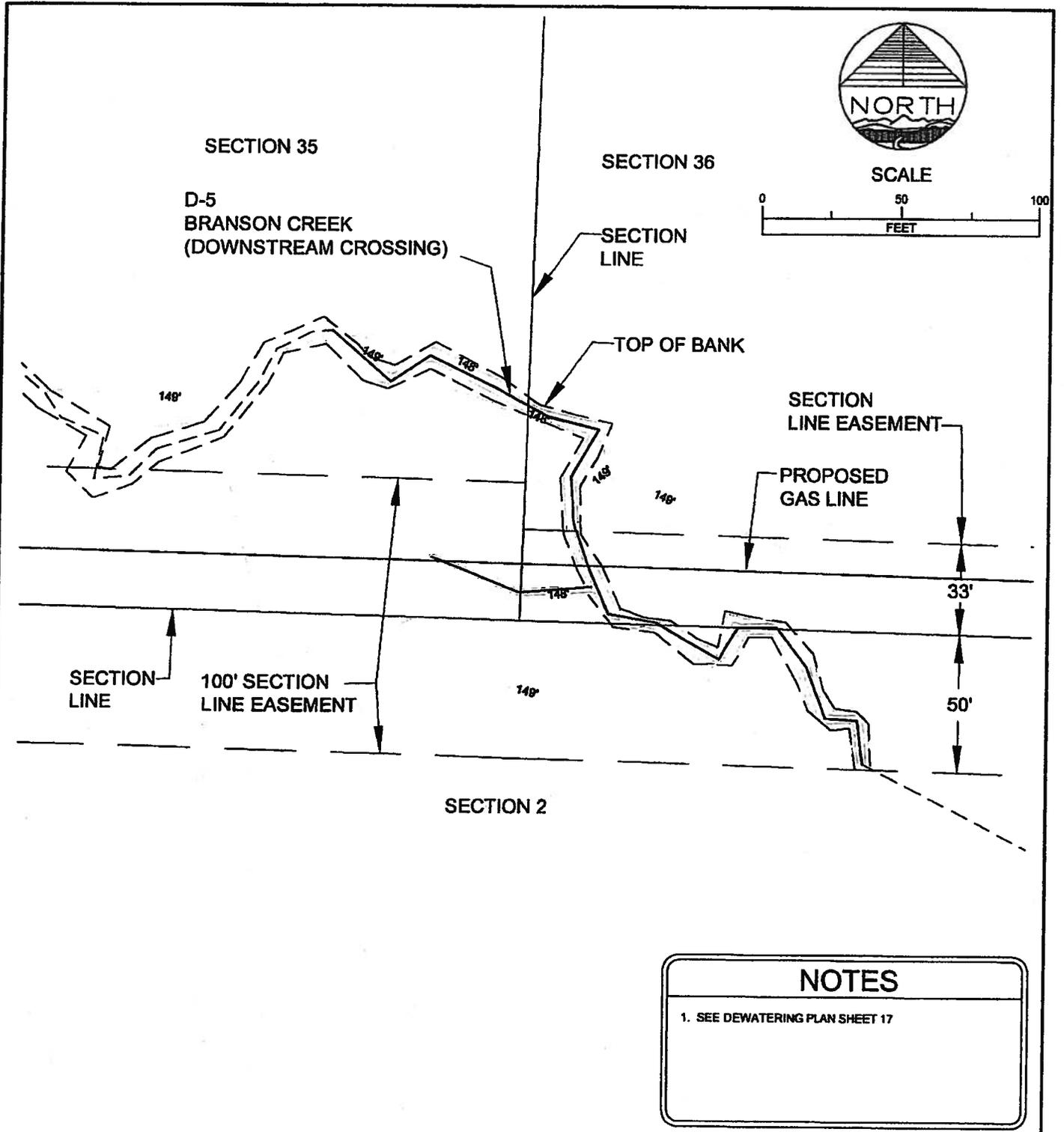
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PROJECT NO. 093104

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NOTES

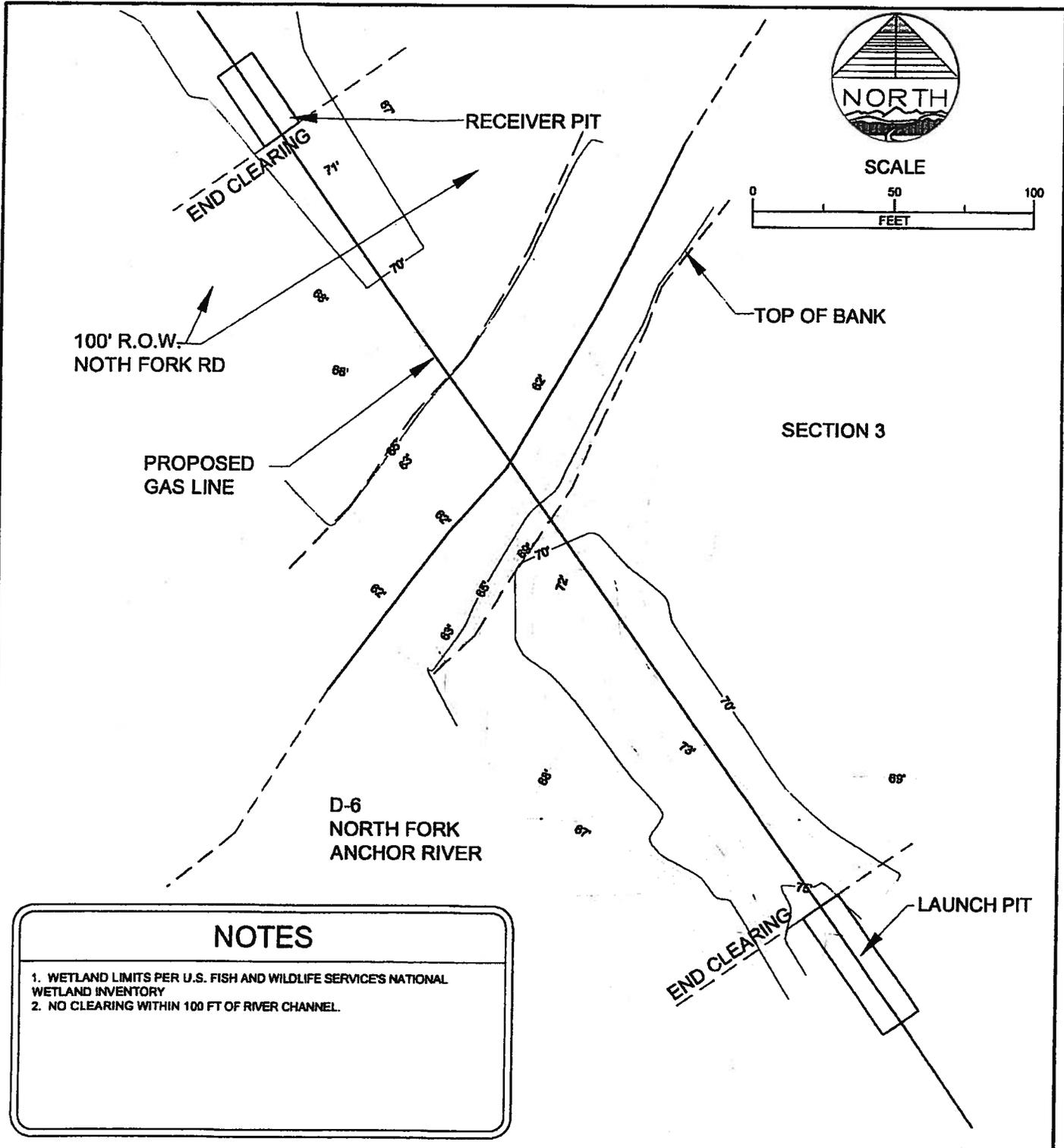
1. SEE DEWATERING PLAN SHEET 17



McLANE
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PURPOSE	NORTH FORK GAS GATHERING LINE	DATE: 2/10/10
APPLICANTS	ANCHOR POINT ENERGY, LLC 1421 BLAKE, DENVER, CO 80202	DRAWN BY: BGB
		SCALE: 1" = 50'
		PROJECT NO. 003104
		BOOK NO 7-29
		SHEET 12 OF 18



NOTES

1. WETLAND LIMITS PER U.S. FISH AND WILDLIFE SERVICE'S NATIONAL WETLAND INVENTORY
2. NO CLEARING WITHIN 100 FT OF RIVER CHANNEL.



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APPLICANTS

ANCHOR POINT ENERGY, LLC
 1421 BLAKE, DENVER, CO 80202

REVISION: -

DATE: 2/10/10

DRAWN BY: 9GB

SCALE 1" = 50'

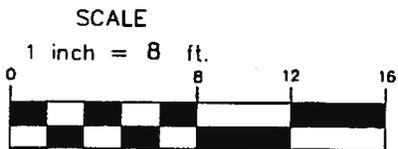
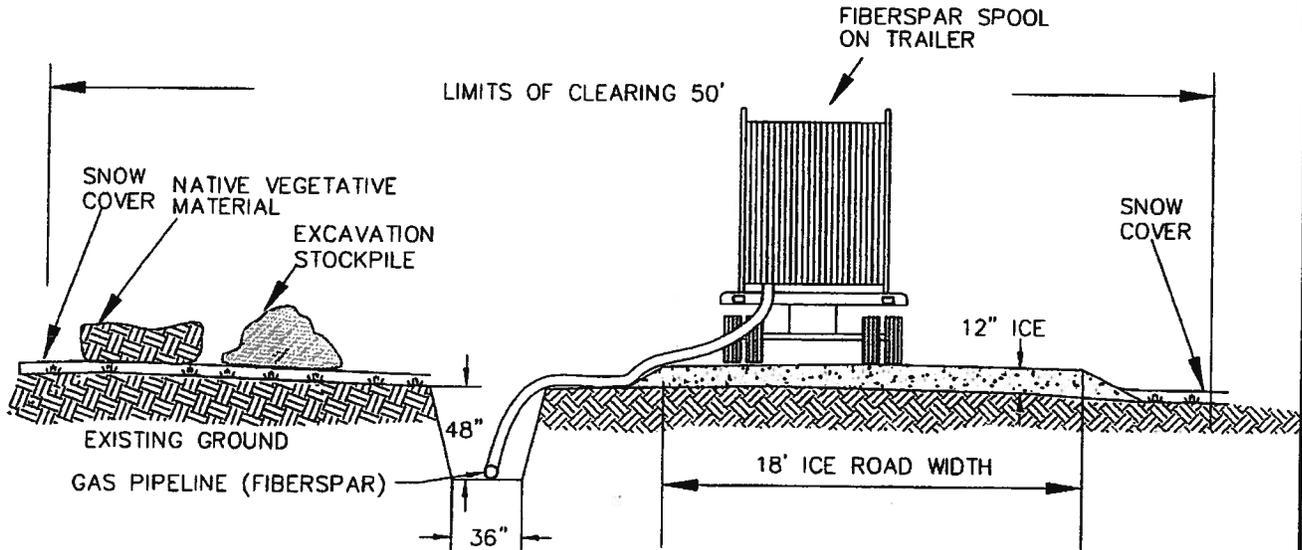
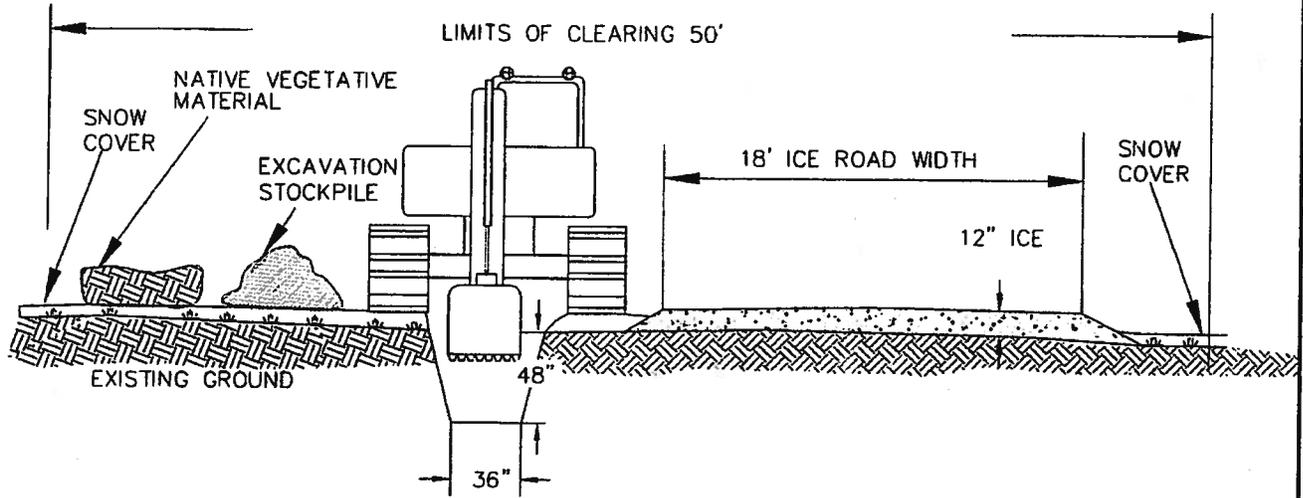
PROJECT NO. 003104

BOOK NO. 7-29

SHEET

13 OF 18

A PIPELINE CROSS SECTION VIEW "PRODUCTION"
15 1" = 8'



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 SOLDOTNA, AK. 99669
 VOICE: (907) 283-4218
 FAX: (907) 283-3265
 WWW.MCLANECG.COM

LOCATION

WEST END: SE 1/4 SEC 34, T4S, R15W, S.M.
 EAST END: SE 1/4 SEC 26, T4S, R14W, S.M.

PURPOSE

NORTH FORK GAS GATHERING LINE

APPLICANTS

ANCHOR POINT ENERGY, LLC
 1421 BLAKE, DENVER, CO 80202

REVISION: -

DATE 2/10/18

DRAWN BY: BCB

SCALE: 1"=8'

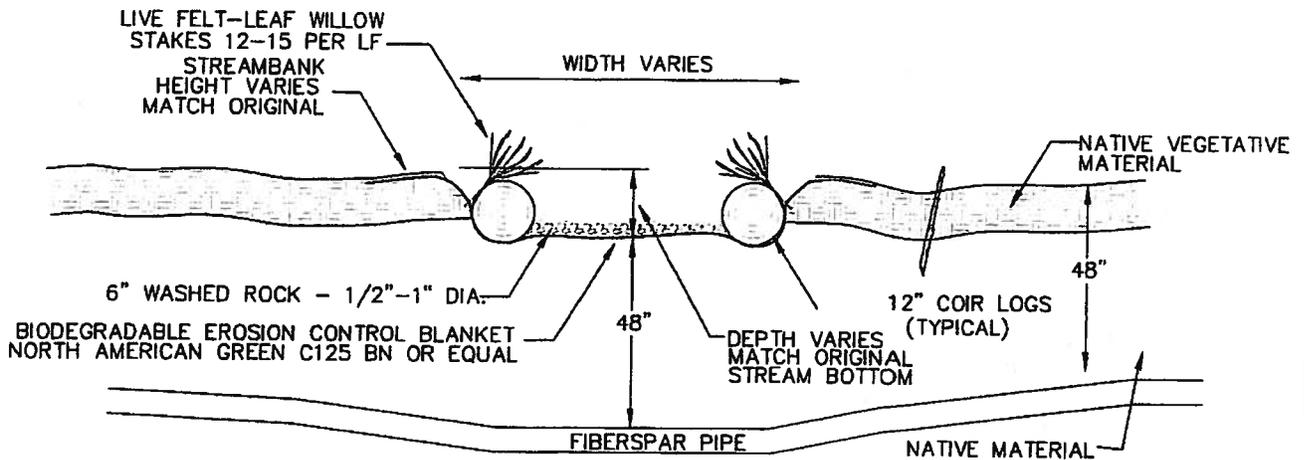
PROJECT NO. 003104

BOOK NO. N/A

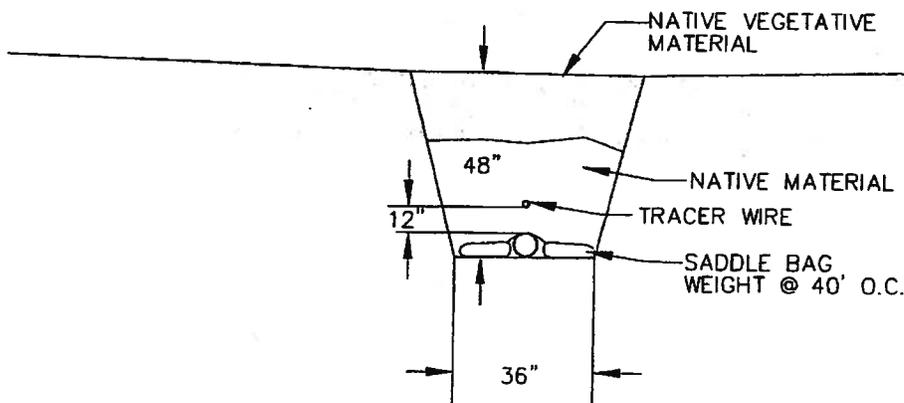
SHEET

15 of 18

A TYPICAL OPEN CUT DRAINAGE CROSSING
16 NOT TO SCALE



B TRENCH BACKFILL DETAIL
16 1" = 4'



NOTE
 SET ASIDE VEGETATIVE
 MATERIAL BLOCKS.
 BACKFILL PLANT SIDE UP



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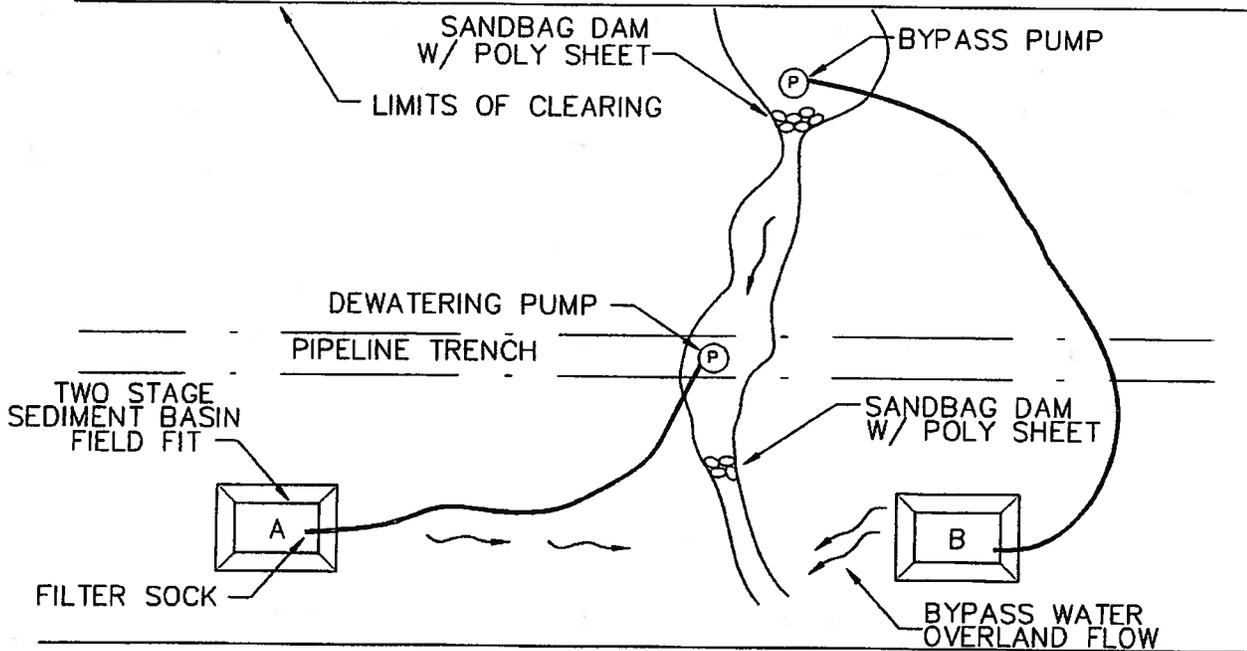
LOCATION
 WEST END: SE 1/4 SEC 34, T4S, R15W, S.M.
 EAST END: SE 1/4 SEC 26, T4S, R14W, S.M.

PURPOSE
 NORTH FORK GAS GATHERING LINE

APPLICANTS
 ANCHOR POINT ENERGY, LLC
 1421 BLAKE, DENVER, CO 80202

REVISION: -
 DATE: 2/10/10
 DRAWN BY: BGB
 SCALE: AS SHOWN
 PROJECT NO. 003104
 BOOK NO. N/A
 SHEET

16 OF 18



1. ALL STREAMS THAT ARE OPEN CUT TRENCHED SHALL BE DAMMED AND PUMPED ACCORDING TO ABOVE PLAN.
2. FIELD FIT SEDIMENTATION BASIN A. BASIN SHALL BE SET BACK FOR PHYTOREMEDIATION PRIOR TO RE-ENTRY.
3. LINE SEDIMENT BASINS WITH MULTIPLE LAYERS OF AMOCO 4545 TO FILTER WATER PRIOR TO ENTERING INTO VEGETATED AREA.
4. INSTALL SANDBAG AND POLY SHEET DAM UPSTREAM AND THEN DOWNSTREAM OF EXCAVATION AREA.
5. STREAM DIVERSION PUMP SHALL HAVE A 3/32 INCH WIRE MESH SCREEN WITH ACTIVE FLOW RATE AT INTERFACE OF LESS THAN 0.4 FPS.
6. STREAM DIVERSION PUMP SHALL DISCHARGE DIRECTLY INTO SEDIMENT BASIN B.
7. ONCE STREAM IS DIVERTED, INSTALL SUMP WITH PUMP TO DRY UP CHANNEL BEFORE PIPELINE EXCAVATION.
8. ALL WATER PUMPED OR BAILED FROM TRENCH WILL BE DISCHARGED TO SEDIMENT BASIN A.
9. MAINTAIN DIVERSION UNTIL PIPELINE IS INSTALLED AND STREAM BANK RESTORATION HAS STABILIZED THE STREAM BANKS.
10. SLOWLY REINTRODUCE FLOW TO THE CHANNEL BY INCREMENTALLY REMOVING SANDBAG DAMS.

A STREAM OR DRAINAGE DIVERSION TYPICAL
 17 NOT TO SCALE



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PURPOSE

NORTH FORK GAS GATHERING LINE

APPLICANTS

ANCHOR POINT ENERGY, LLC

1421 BLAKE; DENVER, CO 80202

REVISION: -

DATE: 2/10/10

DRAWN BY: BGB

SCALE: NA

PROJECT NO. 093104

BOOK NO. N/A

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WETLANDS IMPACT SUMMARY: GAS PIPELINE

WETLAND DESCRIPTION	BEGINNING STATION ENDING STATION	LENGTH (LF)	FOOT PRINT AREA (4.5' WIDE TRENCH)	FOOT PRINT AREA (50' CLEARING)	SUB SURFACE FILL VOLUME (CY)
W-1	101+67 269+63	16796	75582 (SF) 1.7 (AC)	839800 (SF) 19.3 (AC)	210
W-2	276+96 370+52	9366	42100 (SF) 1.0 (AC)	467800 (SF) 10.7 (AC)	117
W-3	383+24 387+92	468	2106 (SF) 0.1 (AC)	23400 (SF) 0.5 (AC)	6
W-4	391+75 409+10	1735	7808 (SF) 0.2 (AC)	86750 (SF) 2.0 (AC)	22
W-5	423+63 432+36	872	3924 (SF) 0.1 (AC)	43600 (SF) 1.0 (AC)	11
W-6	435+90 437+45	155	698 (SF) 0.0 (AC)	7750 (SF) 0.2 (AC)	2
W-7	472+14 480+86	777	3497 (SF) 0.1 (AC)	38850 (SF) 0.9 (AC)	10
TOTALS		30159	135715 (SF) 3.0 (AC)	1507950 (SF) 34.6 (AC)	378 (CY)

NOTES

1. SUB SURFACE FILL VOLUME BASED ON SADDLE BAG WEIGHTS AT .5 CUBIC YARDS EVERY 40 FT.
2. NO SURFACE FILL WILL BE PLACED IN WATERS OR WETLANDS.



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BOOK NO. N/A

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ATTACHMENT 2



FS LPJ 4 1/2" 2,250 (E)

4 1/2 Inch Nominal, 2,250 Series Fiberspar LinePipe-J w/HDPE Pressure Barrier & HDPE External Wear Layer

Product Data Sheet (Imperial Units)

ASTM 2996 Designation:

RTRP-11HZ1-4112

Physical Properties:

Fiberspar s/n:

JEFN045026

Geometry		Tensile Modulus	
Outside Diameter (in)	4.79	Axial (psi)	9.65E+05
Inside Diameter (in)	3.57	Hoop (psi)	1.25E+06
Inside Flow Area (in ²)	9.98	Poisson's Ratio	
Total Wall Thickness (in)	0.61	Major	0.49
C/S Area (in ²)	8.06	Minor	0.63
Linear Weight		Thermal Exp. Coeff.	
Linear Weight - Air (lb/ft)	5.06	Axial (in/in -°F)	1.17E-05
Linear Weight - Water (lb/ft)	1.57	Hoop (in/in -°F)	6.75E-06
Net Density (lb/in ³)	0.052	Thermal Conductivity	
Flow Coefficients		(BTU/hour/ft ² - in/°F)	1.92
Hazen - William's	150	Resin T _g	
Darcy-Wiesbach	0.0004	(°C)	125°
Manning	0.009	(°F)	257°

Mechanical Performance:

	140 °F	78 °F	140 °F
	Minimum Operating Temperature	-29 °F	
Max. Recommended Operating Pressure (psi)	2,250	2,250	2,250
Nominal Ultimate Burst Pressure (psi)	9,000	7,700	7,700
Maximum Recommended Tensile Load (lbs)	23,800	20,400	20,400
Nominal Ultimate Tensile Load (lbs)	59,500	51,100	51,100
Nominal Ultimate Compressive Load (lbs)	-67,800	-55,600	-55,600
Nominal Ultimate Collapse Pressure (psi)	1,950	1,950	1,950
Minimum Operating Bend Radius (in)	77	77	77
Minimum Spooling Diameter (in)	132	132	132

